

Climatic Perspectives

Monthly review

JULY

Vol.9 1987

CLIMATIC HIGHLIGHTS

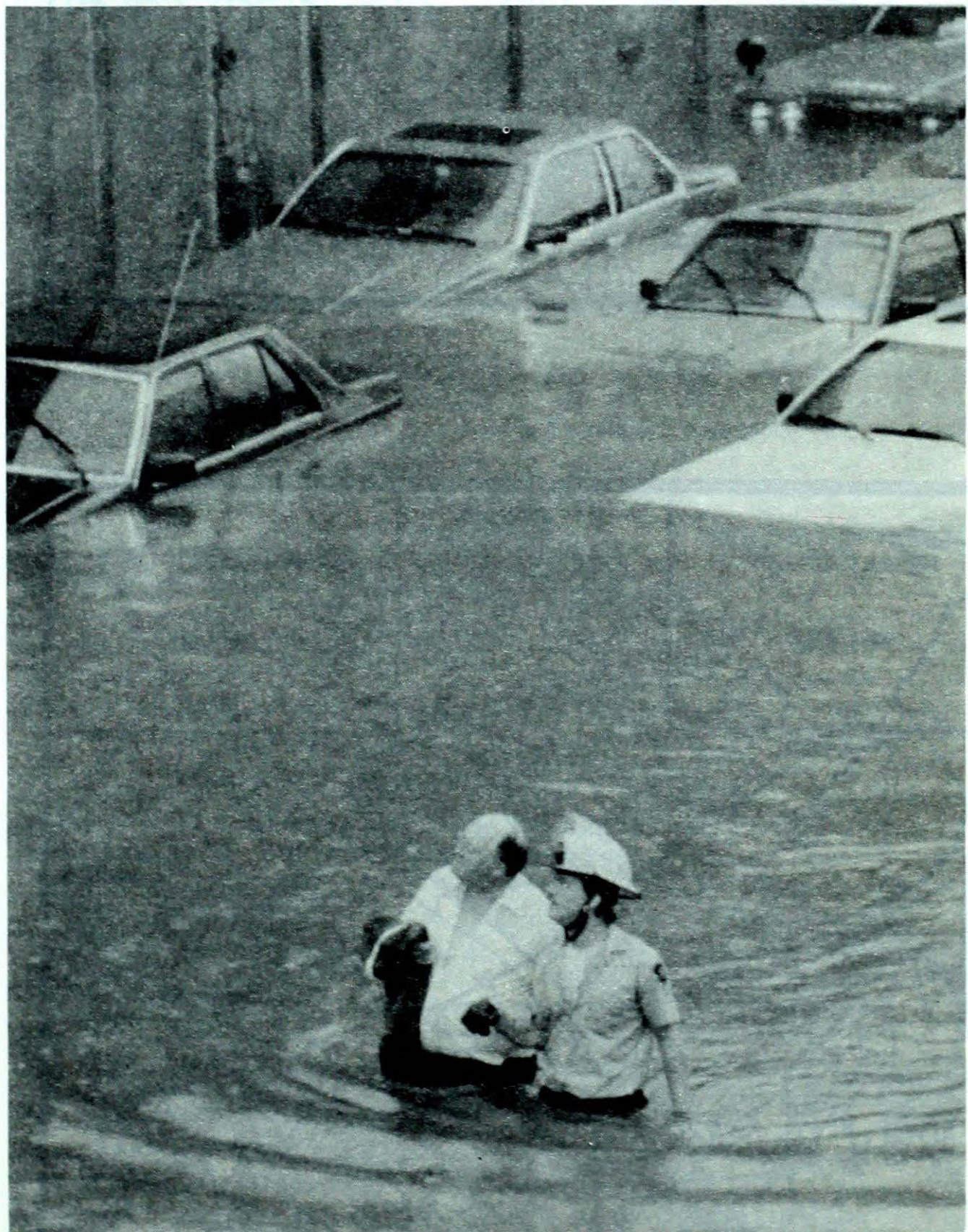
by
A. Shabbar, CCRM

Violent storms bring deaths and destruction from the Rockies to the St. Lawrence Valley.

Canada's worst natural disaster in 30 years strikes Edmonton. Record deluge in Montreal. Scorching heat wave in southern Ontario. Flash flood in Winnipeg. Hail damage in Saskatchewan.

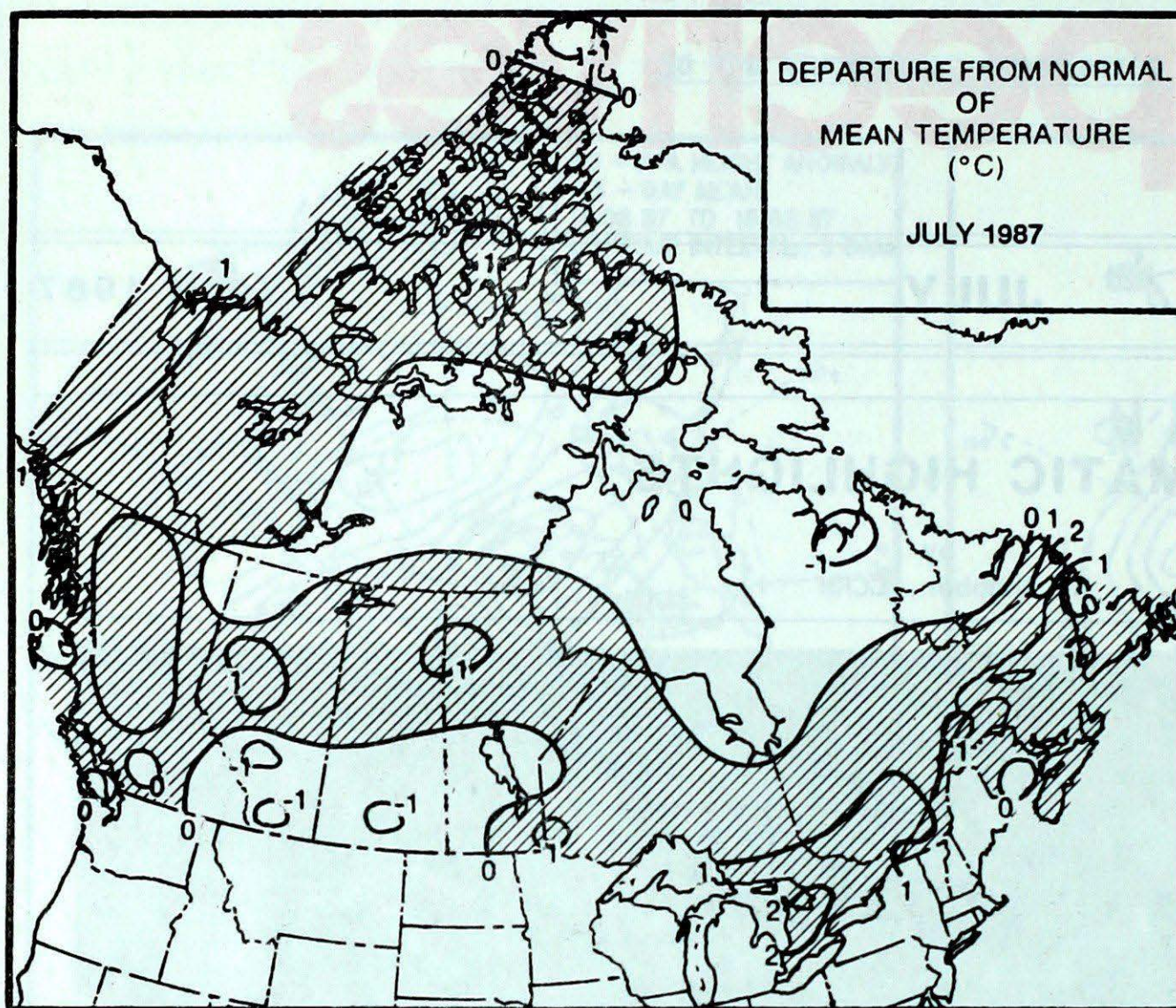
These are some of the events that highlighted July's weather across Canada. A persistent ridge of high pressure over the eastern United States allowed hot and humid air to reach the Great Lakes and the St. Lawrence Valley. On a number of occasions, a clash between this tropical brand of air from the south and cooler and drier air from the north resulted in the outbreak of severe thunderstorms in southern Ontario and southern Quebec. On July 14, intense thunderstorm cells accompanied by strong winds dropped over 100 mm of rain in a 2-hour period over Montreal. Main Expressways were flooded with nearly 4 meters of water causing motorists to abandon their cars. One man drowned and another was electrocuted. At least 40,000 residences were flooded and damage was estimated at over \$100 million.

Ontario had its hottest July in 33 years as two separate heat waves covered southern Ontario. The maximum temperatures exceeded 30°C on 14 occasions in Toronto - the greatest number of "hot days" Cont'd on 4B....Severe Weather



Fireman lends a helping hand to a motorist on Décarie Expressway in Montréal after July 14, 1987 flash flood. Photo courtesy The Gazette, Pierre Obendrauf.

TEMPERATURE



ACROSS THE COUNTRY

Yukon and Northwest Territories

The Keewatin district of the Territories continued to endure below normal temperatures. The remainder of the North had warmer than normal July. The Yukon and the Mackenzie Valley were especially warm; on a few occasions, the mercury climbed near the 30°C mark.

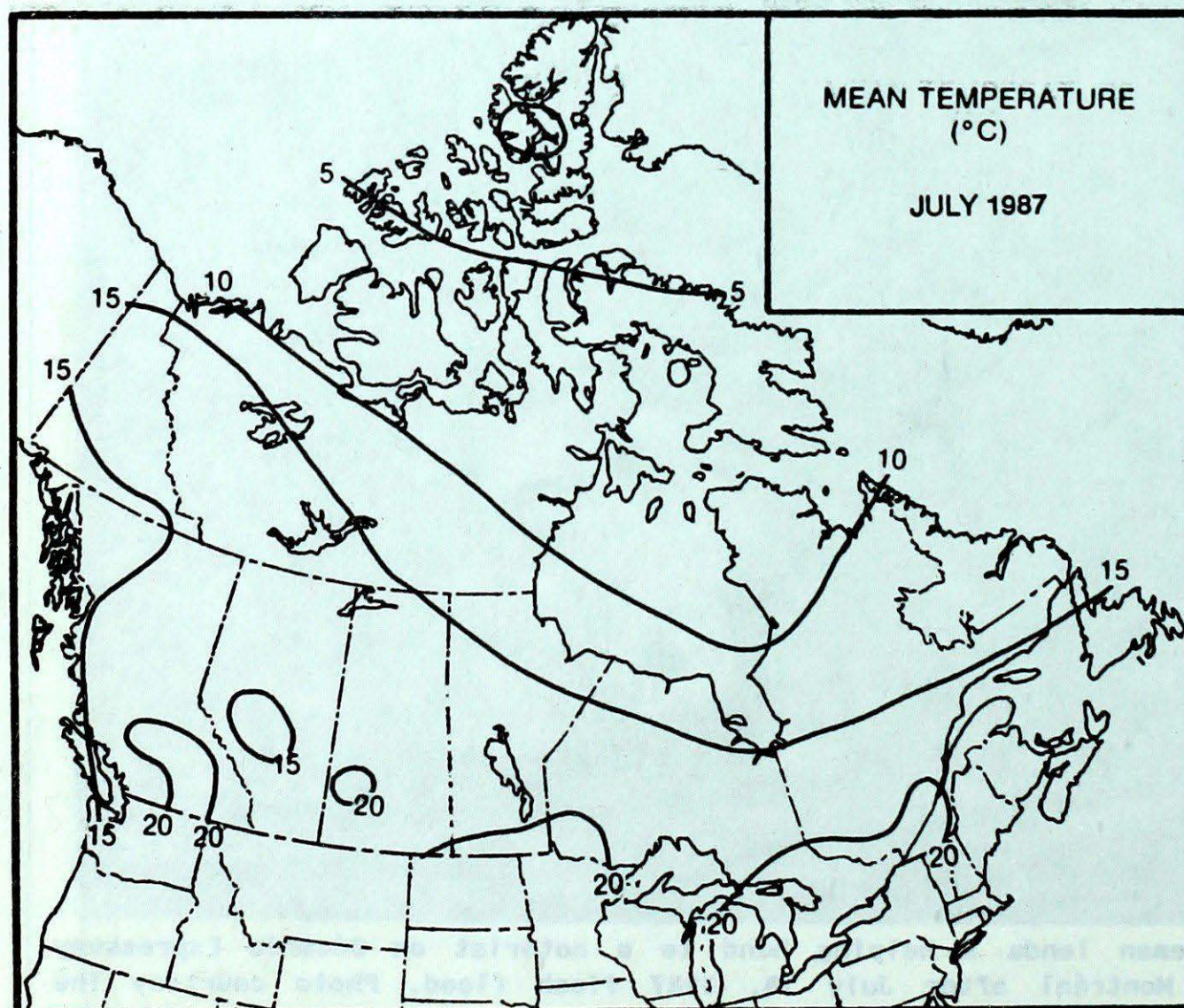
With the exception of the eastern Keewatin district and northern Ellesmere Island, precipitation was below normal throughout the Territories.

Owing to the prevailing easterly winds, ice conditions in the Beaufort Sea were favourable and the breakup of ice was well ahead of normal. In contrast, the eastern Arctic experienced severe ice conditions. However, towards the end of the month, gale force winds opened up the ice flows in the Hudson Bay. With 486 hours of bright sunshine, Eureka was the sunniest location in Canada this month.

British Columbia

Most of British Columbia experienced changeable weather in July. Low pressure systems more normally seen in June persisted for significant periods during July. Extreme southern portions of the province and coastal areas had near to below normal temperatures. This was also true in the Fort Nelson region. The remainder of the province had above normal readings.

Rainfall was highly localized due to the showery nature of the precipitation. Coastal areas were dry, receiving from 35 to 80% of normal precipitation. Below normal amounts also fell over the Chilcotin-Cariboo district. The interior valley stretching to the eastern Fraser valley received 170 to 330% of normal with Hope reporting a whopping 370% of normal. Heavy rains near the end of the month flooded the Peace River region, initial damage estimate exceeded one million dollars. Heavy rains also damaged cherry crop in the Okanagan early in the month.



Prairie Provinces

After months of above normal temperatures, most of the Prairies experienced cooler than normal July. During mid-month, several cool temperatures were reported including a record minimum of 3°C at Swift Current on the 11th. However, summery weather returned as the mercury soared into the 30's towards the end of the month.

The agricultural districts of Manitoba and Saskatchewan received 70 to 100 mm of rain - well above normal. At Prince Albert, 176 mm proved to be the highest for any July. Deluges of rain in the 200 to 300 mm range inundated the Grande Prairie and Edson forest districts during the last 2 days of the month. Rain swollen rivers washed out roads and bridges and flooded farmlands.

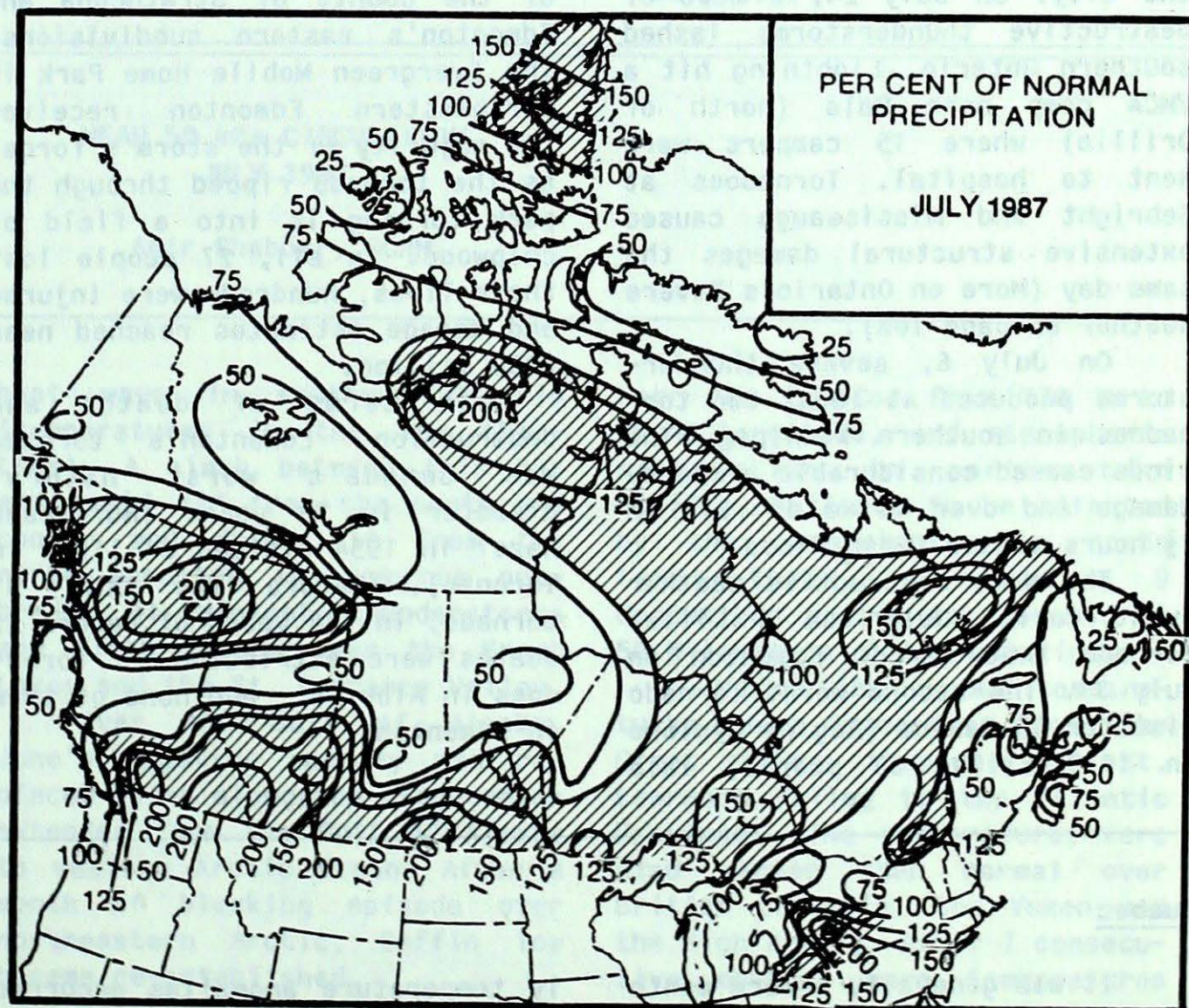
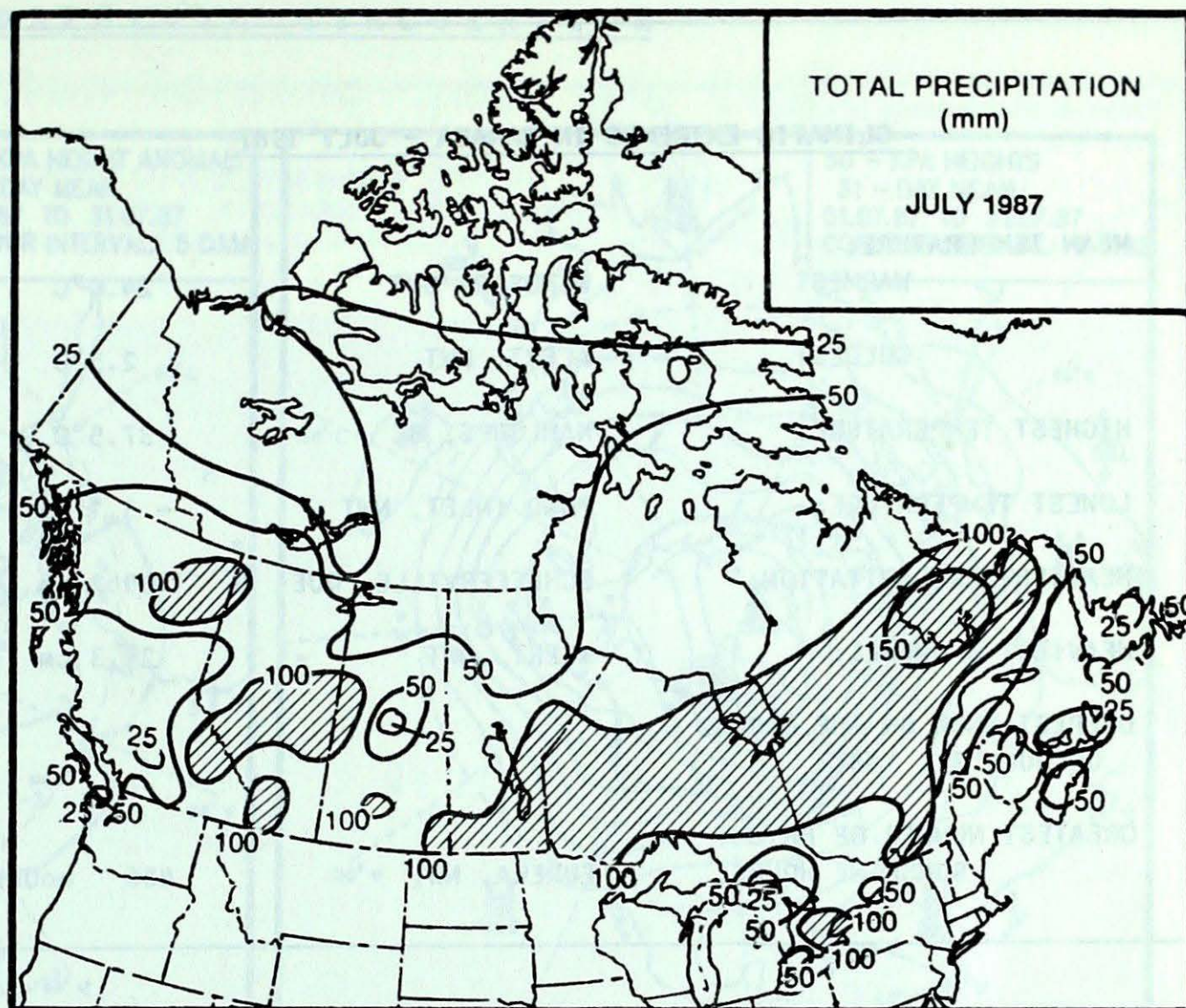
Numerous tornadoes, flash floods and hail storms were reported throughout the Prairies. On July 31, a devastating tornado tracked northward from Leduc Alberta through eastern subdivisions of Edmonton. Twenty seven people were killed and property damage was estimated near \$250 million.

Ontario

Ontario's July was hot. One of the warmest months in recent history brought back memories of the heat waves in the 1940's and 50's. In addition, July 1987 also marks the 8th consecutive month with above normal temperatures across Ontario. Southern Ontario had the highest mean temperature for any July since 1955. The maximum readings topped 30°C on 14 occasions in Toronto, which is the greatest number of "hot days" since 1921. Hot weather also penetrated northern Ontario, producing the warmest July since 1983.

Precipitation was heavy in northern Ontario with several locations receiving over 100 mm. Timmins with 145 mm recorded its wettest July since 1968. Central and southern Ontario were dry, rainfalls in the 40 to 70 mm range were 30 to 80% of normal.

Severe thunderstorms accompanied by strong winds caused extensive property damage on a number of occasions in southern Ontario.



EXTREMES

CLIMATIC EXTREMES IN CANADA - JULY 1987

MEAN TEMPERATURE:			
WARMEST	WINDSOR, ONT	24.0°C	
COLDEST	ALERT, NWT	2.5°C	
HIGHEST TEMPERATURE:	KAMLOOPS, BC	37.5°C	
LOWEST TEMPERATURE:	POND INLET, NWT	- 3.1°C	
HEAVIEST PRECIPITATION:	SCHEFFERVILLE, QUE	189.2 mm	
HEAVIEST SNOWFALL:	ALERT, NWT	25.3 cm	
DEEPEST SNOW ON THE GROUND ON JULY 31, 1987:			
GREATEST NUMBER OF BRIGHT SUNSHINE HOURS:	EUREKA, NWT	486	hours

...Severe Weather (Continued from the front page)

67 years. Moreover, extensive use of air conditioners set one-day electrical consumption record in the city. On July 24, a wave of destructive thunderstorms lashed southern Ontario. Lightning hit a YMCA camp near Bala (north of Orillia) where 15 campers were sent to hospital. Tornadoes at Sebright and Mississauga caused extensive structural damages the same day (More on Ontario's Severe Weather on page 10B).

On July 6, severe thunderstorms produced at least two tornadoes in southern Winnipeg. The winds caused considerable property damage and over 40 mm of rain in 2½ hours caused flash flood.

The most destructive weather event during July was a killer tornado that struck Edmonton on July 31. The second worst tornado disaster in Canada (Regina cyclone in 1912 killed 38 people) laid

vicious trial of death and destruction in the agricultural, industrial and residential areas of the county of Strathcona and Edmonton's eastern subdivisions. The Evergreen Mobile Home Park in northeastern Edmonton received the majority of the storm's force, as the tornado ripped through the park turning it into a field of chipwood. In all, 27 people lost their lives, hundreds were injured and damage estimates reached near \$250 million.

In terms of deaths and destruction, Edmonton's tornado was Canada's worst natural disaster in 30 years (Hurricane Hazel in 1954 claimed 81 lives in Toronto). Before the July 31 tornado, in 108 years of record 22 deaths were attributed to tornadoes in Alberta - and none of them in Edmonton.

established a new record for July. The mercury soared to extremely high values at several locations: 35°C at Bagotville on the 12th, 34°C at Ottawa on the 23rd, 32°C or higher for 5 consecutive days between the 9th and 12th at Dorval.

Severe thunderstorms occurred mainly over the southeastern parts of the province. Trees were uprooted in the Ottawa Valley on the 10th and 11th and in Abitibi on the 12th. Electricity was cut off in 35,000 Montreal homes on the 24th due to a severe thunderstorm. On another occasion, lightning killed a young girl and a church bell was pulverized in Hull.

The worst damage occurred in Montreal on the 14th when severe thunderstorms dumped more than 100 mm of rain at McGill University, 86 mm fell in one hour, a new record for Montreal Island. A new monthly record 189.2 mm of rain was recorded at Schefferville.

Atlantic Provinces

July was generally sunny and dry in the Atlantic Provinces. Temperatures climbed above 30°C at the beginning of the month in New Brunswick and Newfoundland. Record daily maximum values near 30°C were set at mid-month in Summerside. Charlo and Stephenville set a monthly record of 30.6°C.

Precipitation amounts were generally below normal. Record monthly minimum amounts were recorded at Charlo, Moncton and Fredericton. Charlottetown and Gander received meagre amounts of 8.9 and 10.5 mm respectively, the lowest amounts since 1968 and 1961. At Sydney it was the driest July since 1937.

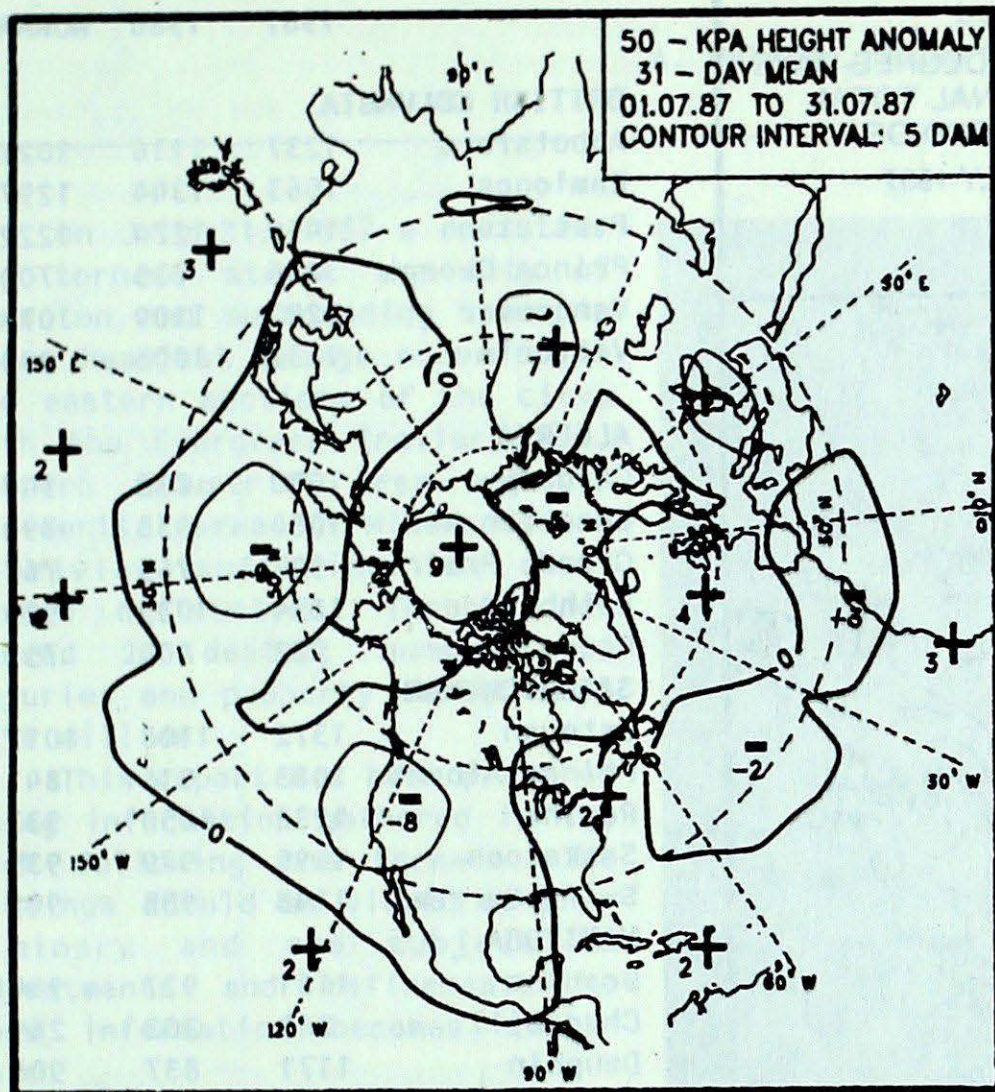
This unusually dry weather created problems in several regions as wells dried up and water levels in rivers and lakes lowered. In Newfoundland, 1500 workers were laid off in the forestry industry as forest fire hazards rose to extreme levels. The sunny dry weather was beneficial to agriculture but a continuation of the drought could drastically reduce yields.

Quebec

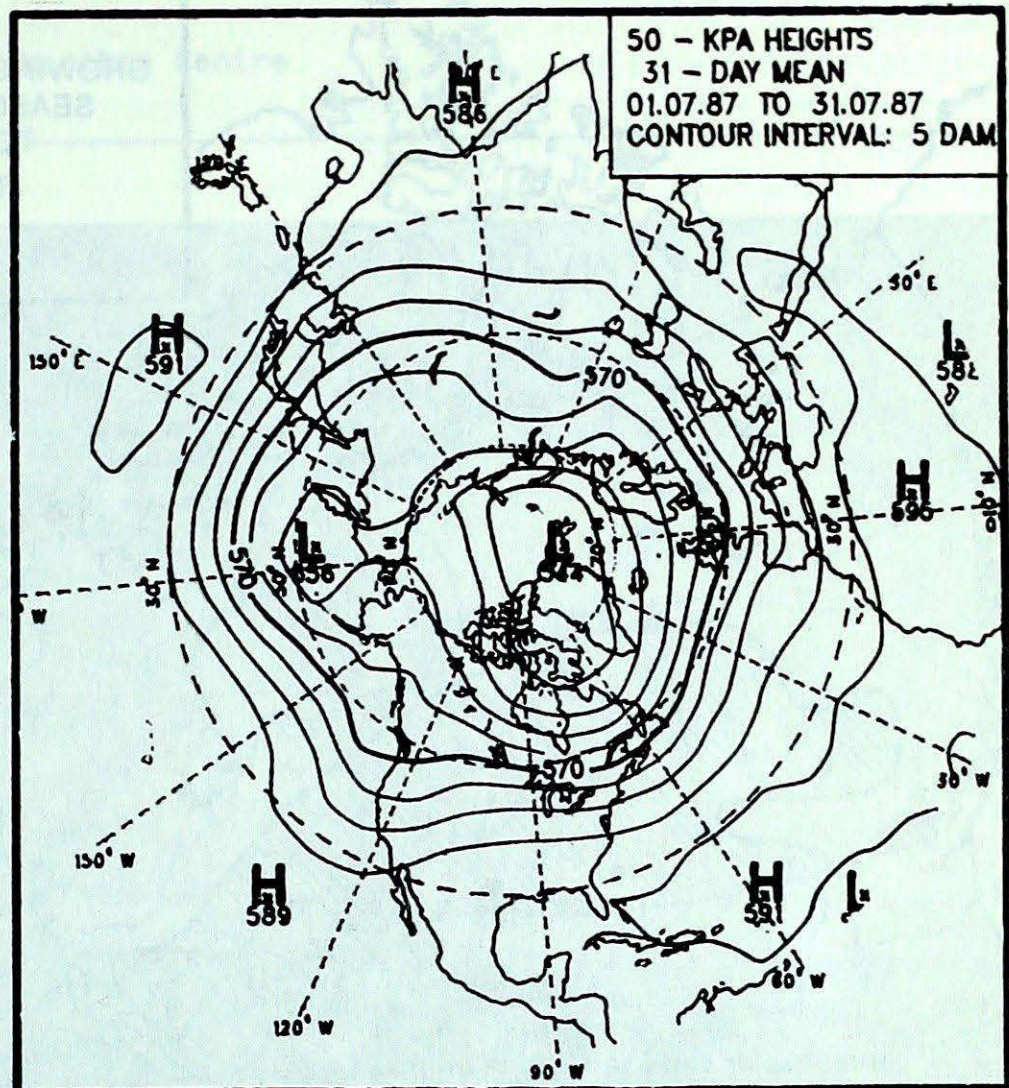
It was generally a warm month across the provinces except in the north. The highest positive month-

ly temperature anomalies occurred in the southern half of the province where 2°C at Blanc Sablon

ATMOSPHERIC CIRCULATION



Mean 50 kPa height anomaly (dam)
July 1987



Mean 50 kPa heights (dam)
July 1987

MEAN 50 kPa CIRCULATION
JULY 1987

Amir Shabbar, CCRM

Major changes occurred in the longwave features of the 50 kPa circulation during July. After 7 consecutive months of persistent ridge over southern Prairies, a trough and its associated negative anomaly developed east of the Rockies and the monthly temperatures fell below seasonable values for the first time this year on the Prairies.

A longwave ridge covering most of the eastern United States extended into the Great Lakes allowing oppressively hot and humid southwesterly air flow to reach southern Ontario and southern Quebec. The stagnant tropical air mass produced one of the worst

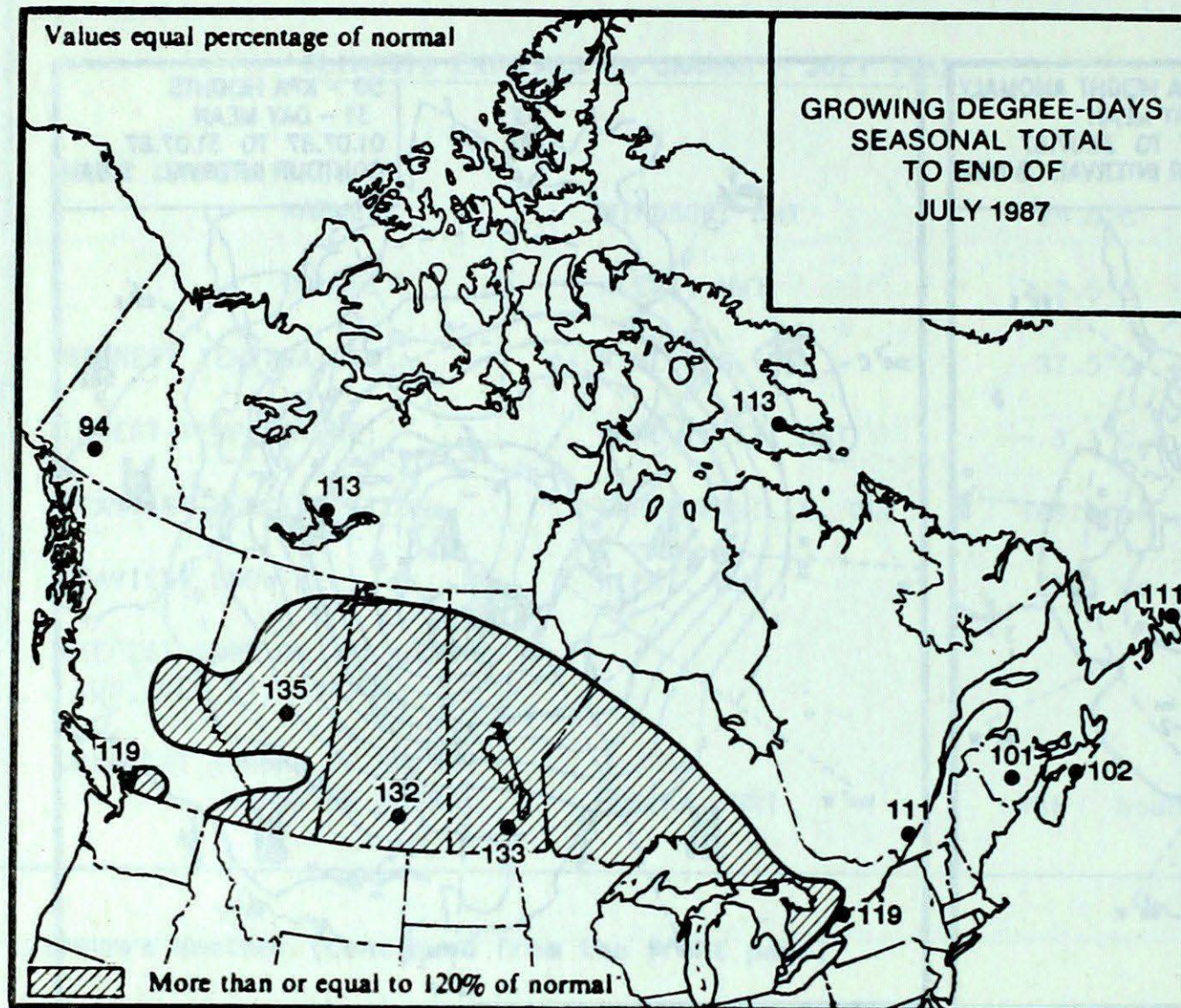
heat wave in southern Ontario (temperatures in the low thirties). A clash between this hot and humid air from the south and cooler and drier air from the north resulted in numerous outbreaks of violent thunderstorms and flash floods over the Great Lakes and the St. Lawrence Valley.

Over the Gulf of Alaska, June's negative anomaly was replaced by an elongated ridge which extended from the Gulf of Alaska to western Arctic Ocean. After a month of blocking episode over northeastern Arctic, Baffin low became re-established.

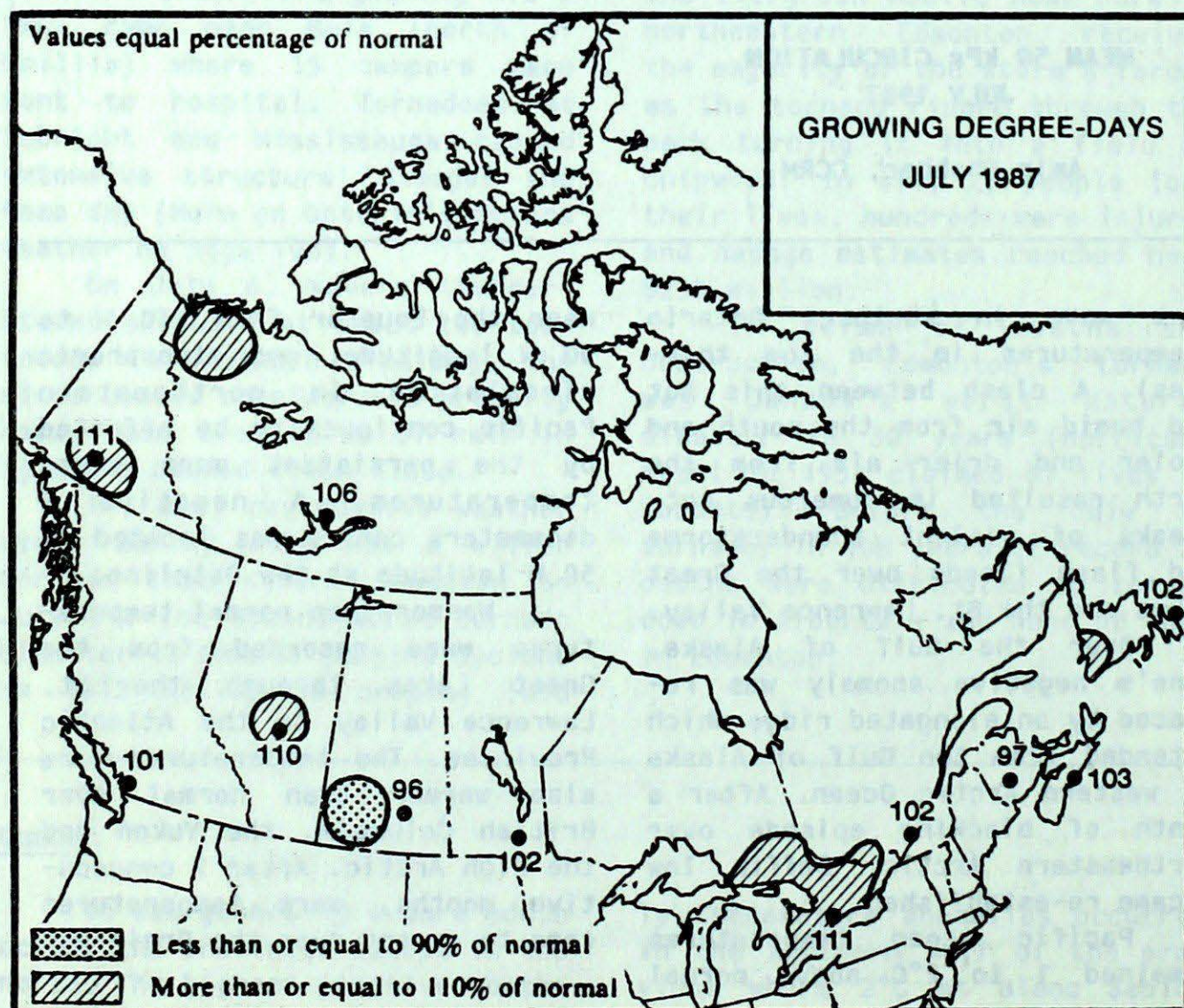
Pacific ocean temperatures remained 1 to 2°C above normal

near the Equator from 170°W to 90°W longitude, and atmospheric circulation in northeastern Pacific continues to be affected by the persistent warm ocean temperatures. A negative 9 decameters centre was located at 50°N latitude at the Dateline.

Warmer than normal temperatures were recorded from the Great Lakes through the St. Lawrence Valley to the Atlantic Provinces. The temperatures were also warmer than normal over British Columbia, the Yukon and the High Arctic. After 7 consecutive months, warm temperatures came to an end over the Prairies.

**GROWING
DEGREES**
GROWING DEGREE DAYS
SEASONAL TOTAL OF GROWING
DEGREE-DAYS TO END OF JULY


	1987	1986	NORMAL
BRITISH COLUMBIA			
Abbotsford	1237	1116	1021
Kamloops	1563	1344	1297
Penticton	1459	1274	1222
Prince George	836	735	700
Vancouver	1292	1109	1078
Victoria	1137	1005	991
ALBERTA			
Calgary	1000	833	747
Edmonton Mun.	1084	933	794
Grande Prairie	907	765	767
Lethbridge	1154	1035	925
Peace River	923	804	757
SASKATCHEWAN			
Estevan	1372	1108	1017
Prince Albert	1083	916	841
Regina	1238	1050	933
Saskatoon	1198	979	935
Swift Current	1148	955	909
MANITOBA			
Brandon	1181	977	944
Churchill	282	303	269
Dauphin	1171	837	906
Winnipeg	1336	1128	1001



ONTARIO			
London	1448	1223	1176
Mount Forest	1112	1093	923
North Bay	1007	961	943
Ottawa	1315	1247	1150
Thunder Bay	949	886	778
Toronto	1404	1257	1176
Trenton	1358	1242	1162
Windsor	1681	1514	1381
QUÉBEC			
Baie Comeau	638	571	628
Maniwaki	989	968	919
Montréal	1319	1202	1180
Quebec	991	927	962
Sept-Îles	579	527	549
Sherbrooke	962	987	1033
NEW BRUNSWICK			
Charlo	836	732	801
Fredericton	947	999	960
Moncton	895	807	862
NOVA SCOTIA			
Sydney	715	754	707
Truro	820	630	779
Yarmouth	819	795	755
PRINCE EDWARD ISLAND			
Charlottetown	836	787	787
NEWFOUNDLAND			
Gander	669	597	602
St. John's	570	527	512
Stephenville	657	627	608

The Edmonton Tornado - July 31, 1987

by

A. Wallace, Alberta Weather Centre

On July 31, 1987 a devastating tornado struck the City of Edmonton and surrounding communities. Heaviest damage occurred in the eastern sections of the city, with the Evergreen Trailer Park, eastern industrial area and the residential areas of Millwoods and Clareview suffering the most severe destruction. The tornado caused 27 deaths, hundreds of injuries and property damage over \$250 million.

This report has been prepared using information gathered in the week following the tornado. The findings should be viewed as preliminary and are subject to adjustments and refinements as more information becomes available.

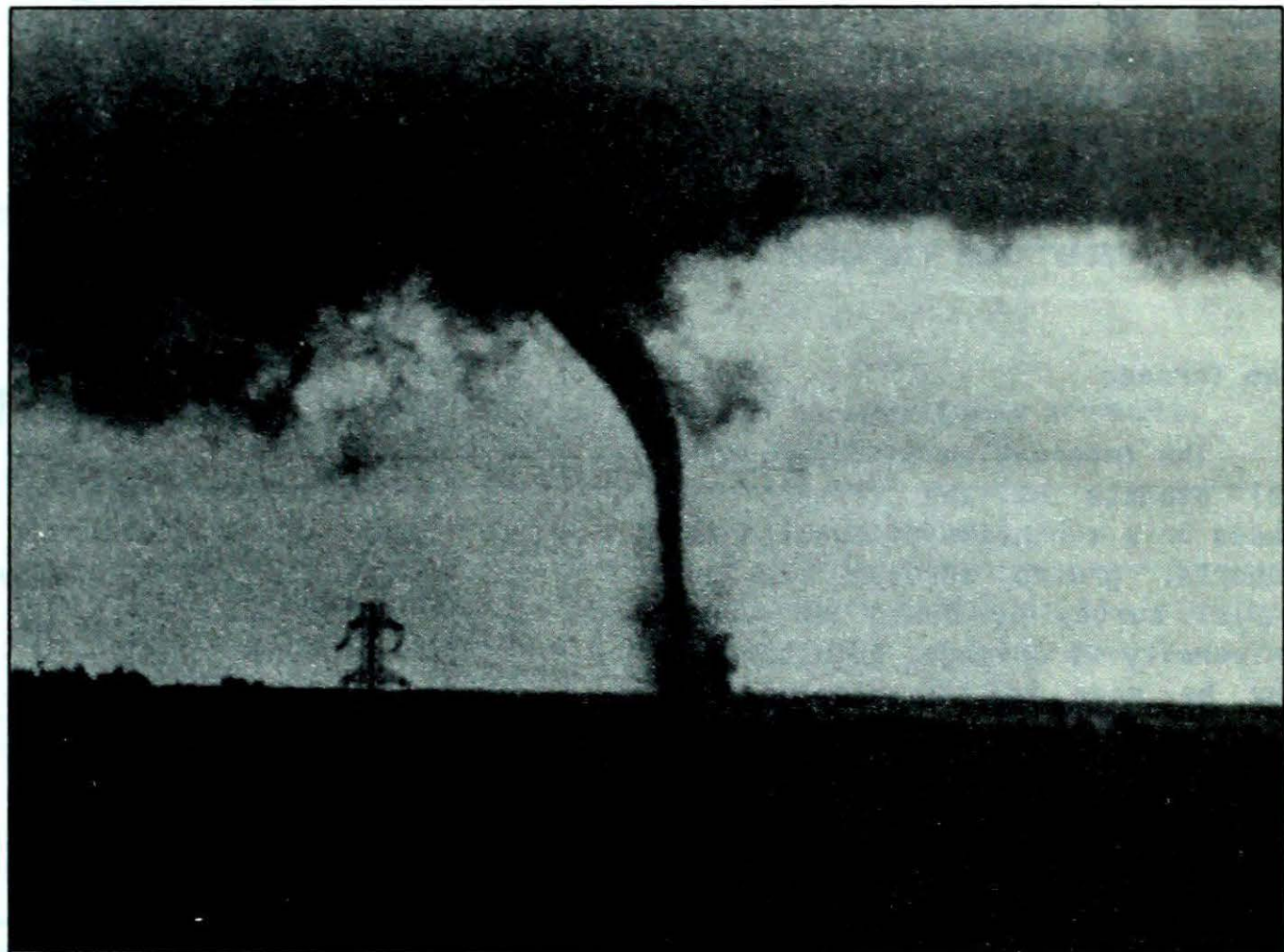
This preliminary report describes the weather conditions that generated the storm and describes the physical dimensions of the tornado.

The City of Edmonton, Environment Canada, and other agencies concerned with public safety will be coordinating a more in-depth review of all matters related to the July 31, tornado.

Alberta Tornado Climatology

During the period between 1960 and 1982 there was an annual average of 8.3 tornado sightings in Alberta. In the years 1983 through 1986, the number of sightings of tornadoes in Alberta were 17, 12, 15 and 21 respectively. The increase in the numbers of tornado sightings in recent years is believed to stem from a greater awareness of the public and the enhanced reporting network brought about by the recruitment of volunteer weather watchers. In the period 1889 - 1986 there have been seven other documented cases of tornadoes in Edmonton City but these touchdowns were brief and intermittent. (Hage, 1982).

Alberta's tornadoes are of



Edmonton Tornado - July 31, 1987 "Touchdown" Northeast of Leduc Photo: T. Taylor

varying intensities. Tornadoes are classified using the Fujita Tornado Intensity Scale (Table 1). Recent major tornadoes to strike Alberta were: Athabasca, June 29, 1984; Lloydminster, July 8, 1983; and, Rocky Mountain House, June 30, 1982.

Meteorological Conditions

The last 10 days of July had been hot with temperatures at or near record values. Humidities had been increasing with dewpoints, a measure of humidity, reaching near 20 degrees (10 degrees above normal). Thunderstorms had been frequent during this period. Damaging winds, large hail, heavy downpours and record lightning activity were associated with the thunderstorms. On July 30, 2 lines of severe thunderstorms had crossed the Edmonton region accompanied by damaging winds.

Friday July 31 dawned sunny, and although surface temperatures and humidities were lower than the previous days the airmass continued to have the potential for strong thunderstorms. The circulation maintained a southerly flow of warm, moist air. As the day progressed, surface temperatures and dewpoints rose. Thunderstorms began developing in the late morning along the Rocky Mountain Foothills and by early afternoon were moving northward across central Alberta. A cold front was sweeping eastward across Alberta providing an additional lift mechanism for the formation of severe thunderstorms. A line of thunderstorms southwest of Edmonton intensified rapidly and moved toward the city at about 70 kmh. A new thunderstorm cell developed explosively ahead of the line, in the Leduc area, and moved northward. This

FEATURE

would prove to be the storm that produced the tornado. The line overtook the cell and together they moved northward through eastern Edmonton. In addition to the tornado, hail as large as softballs, strong winds and rain amounts of 40 - 50 millimetres were reported in the city. Approximately 2 hours after the first thunderstorms a second line moved through the city, again producing heavy rain, hail and damaging winds (greater than 110 kmh).

The Tornado

The information on the physical aspects of the tornado is based on a synthesis of eyewitness reports, ground surveys and an aerial survey by Brain Smith of University of Chicago. Adjustments may be made to the conclusions regarding timing and damage path as more information is received.

A tornado was sighted near Leduc at 2:55 P.M. by a member of the public when a funnel cloud was seen to touch down and then retract. According to eyewitness accounts, the tornado reformed southeast of Beaumont at 3:01 P.M. The tornado then followed a generally northward track moving to the east of Beaumont, across the eastern fringes of Millwoods, northward to the Sherwood Park Industrial Estates, then to the North Saskatchewan River Valley. It followed the river northward, exiting the valley where it curves eastwards. The tornado crossed the northeastern fringes of Clareview. As it crossed 153rd Avenue it moved northeast to the Evergreen Trailer Park, then continued northeastward for about 5 km before dissipating.

The tornado was on the ground for over an hour, from its touch-down at 3:01 P.M., to its dissipation northeast of the Trailer Park just after 4:05 P.M. (Table 2). Based on the damage surveys, there was only one tornadic event with a path length of approximately 40 km and an average speed of near 35 kmh. The damage path varied in width from less than 100 metres (m) to over 1000 m. In the most



Map 1. Tornado damage path, Edmonton Tornado July 31, 1987. Based on aerial and ground surveys.

severely damaged areas, the width of the severe destruction varied from 200 m (Evergreen Trailer Park) to about 700 m (industrial sections). Surveys of the damage led to this tornado being tentatively classified as a strong F3 on the Fujita Tornado Intensity Scale (Table 1). Along the path of the tornado (Map 1) varying scales of damage were visible, ranging from F0 to occasionally approaching F4. Occurrences of missile damage were evident in many areas.

Other Severe Weather Phenomena

Very large hail, up to softball size, was reported in south Edmonton and the eastern sections of Edmonton south of the River. Torrential rains accompanied the storm complex across all parts of the City and produced local flooding. Strong and gusty winds together with downbursts from the thunderstorm also caused some

damage near to, but not within, the tornado path.

A second line of thunderstorms moved across the city in the early evening. This was accompanied by strong wind gusts (110 kmh reported) and hail.

Summary

Tornadoes occur every year in Alberta. The tornado that devastated portions of eastern Edmonton on July 31, 1987 was however a rare event.

Surveys of the damage led to this tornado being tentatively classified as a strong F3 on the Fujita Tornado Intensity Scale. Along the path of the tornado varying scales of damage were visible, ranging from F0 to occasionally as high as F4.

The damage path extended from southeast of Beaumont to northeastern Edmonton over a length of nearly 40 kms. Damage

over half of the path indicates a tornado of intensity F2 or stronger. The width of severe destruction varied from 200 m to as much as 700 m.

Continued investigations of this tornado and comparisons with other tornadic events in Canadian history, will further define the magnitude of this event.

Reference

Hage, K.D., 1982, Preliminary List of Tornadoes in Alberta 1960 - 1982, Unpublished manuscript.

Table 1. The Fujita Tornado Intensity Scale

	Surface Wind Speed (kmh)	Expected Damage
F0	64 - 116	Light
F1	117 - 180	Moderate
F2	181 - 252	Considerable
F3	253 - 330	Severe
F4	331 - 417	Devastating
F5	418 - 509	Incredible

Table 2. Tornado Chronology. Based on eyewitness accounts. Times are best estimates available.

local time	Location
1455	First known touchdown in the vicinity of Leduc.
1501	Beginning of the 40 km track, 3-4 km southeast of Beaumont.
1507	1-2 km northeast of Beaumont.
1515	Crossed Ellerslie Road between 34 St. and 17 St.
1520	Moved through southeastern Millwoods.
1530	Northeast of Millwoods.
1535	Moving through Sherwood Park Industrial area.
1540	Moving into the River Valley near the Strathcona Science Park.
1550	Moving through eastern Clareview.
1553	Farms just southwest of Trailer Park hit.
1555	Moving into Evergreen Trailer Park.
1605	Dissipates 5 km northeast of Trailer Park.

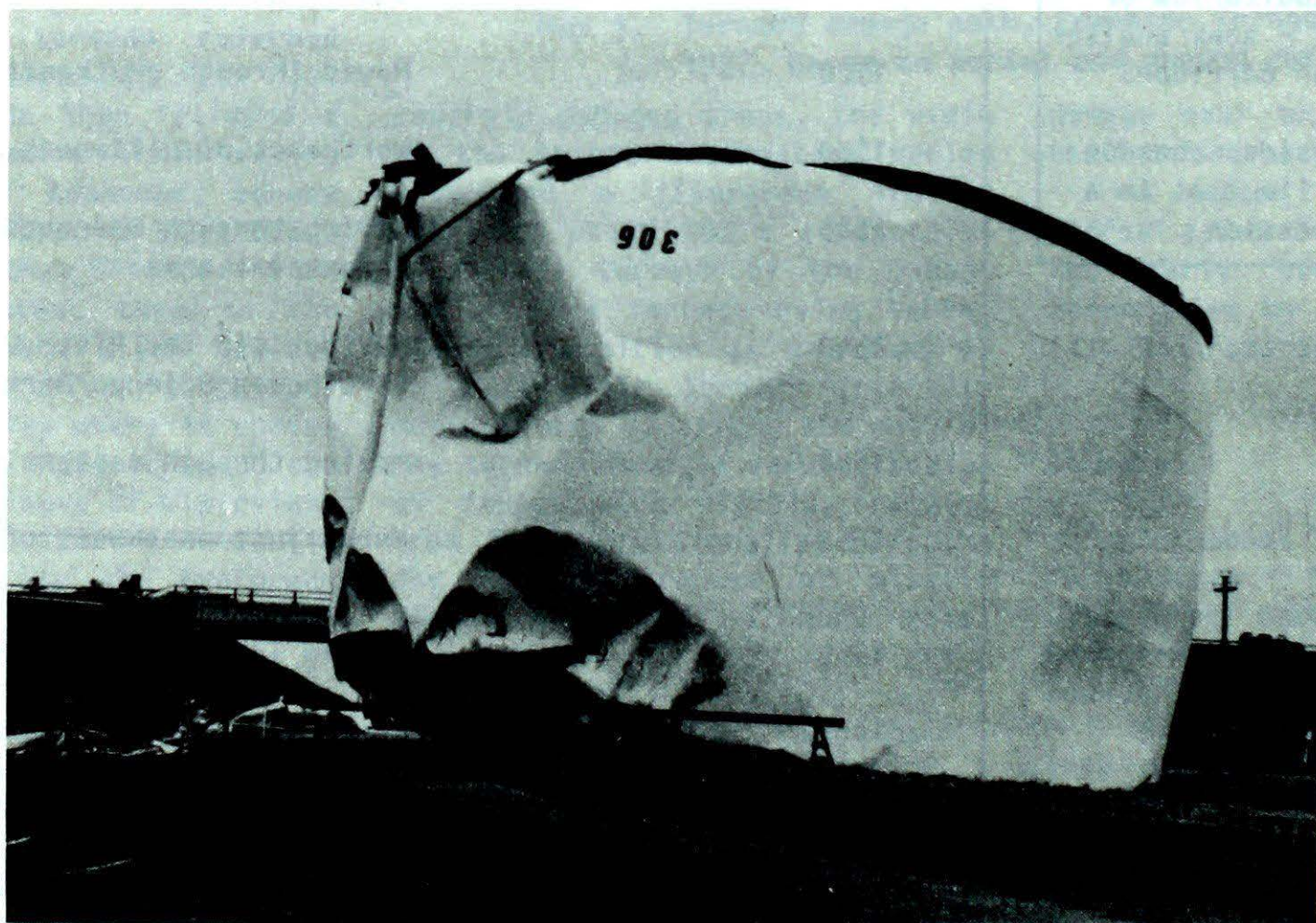
WHAT TO DO IF A TORNADO STRIKES

1. Head for the basement. Fast!
2. No basement? Seek shelter, under the stairs, under a sturdy table, or in a closet or small room.
3. In a school auditorium or shopping mall - seek shelter in an interior corridor.
4. If caught outside, abandon your car and lie flat in a ditch or depression.

FEATURE



Edmonton Tornado - July 31, 1987 Evergreen Trailer
Court Photo: L. Wojliw



Edmonton Tornado - July 31, 1987 Industrial Area
"Refinery Row" Photo: L. Wojliw

Severe Weather in Ontario - July 1987

July 3

Windsor: Winds damage trees
 Bracebridge: Tornado
 Kitchener: Heavy rains, tree damage
 Sudbury: Golfball size hail

July 12

Sault Ste. Marie: Trees down, boats overturned

July 22

Hornepayne: Tornado cause structural damage
 Matheson: wind damage (possible tornado)

July 7

Kitchener, north and east of
 Toronto: Flooding

July 13

Toronto: Trees and power lines down.

July 23

Sault Ste. Marie: wind damage (possible tornado)

July 8

Jackson point: Tree damage
 Aurora: Flooding

July 18

Perth: Walnut size hail
 Uxbridge: Trees uprooted, houses damaged by winds

July 24

Bala: Lightning injuries
 Lake St. John: small tornado, planes damaged, numerous trees uprooted.
 Mississauga: small tornado

July 9

West Toronto: Minor flooding, power lines down

July 19

Orillia, Stratford, Huronia: heavy rains, trees and power lines down.

July 31

Niagara Falls: funnel cloud.

July 11

Sault Ste. Marie: 3 planes damaged by winds, 108 kmh gust down trees & power lines

July 20

Strathroy, London - trees damaged.

- M. Leduc

Ontario Weather Centre



JULY													
STATION	Temperature C				Snowfall (cm)	% of Normal Snowfall	Total Precipitation (mm)	% of Normal Precipitation	Snow on ground at end of month (cm)	No. of days with Precip 1.0 mm or more	Bright Sunshine (hours)	% of Normal Bright Sunshine	Degree Days below 18 C
	Mean	Difference from Normal	Maximum	Minimum									
BRITISH COLUMBIA													
ABBOTSFORD	17.1	0.1	28.4	7.8	0.0	51.2	124	0	7	259	89	40.8	
ALERT BAY	14.3	0.3	25.8	9.0	0.0	42.8	81	0	7	X		112.1	
AMPHITRITE POINT	13.9	0.0	20.6	9.7	0.0	52.8	72	0	10	X		127.1	
BLUE RIVER	16.7	0.3	32.6	2.0	0.0	104.2	138	0	11	224	91	MSG	
BULL HARBOUR	13.1	0.0	20.3	5.9	0.0	25.7	41	0	8	X		152.7	
CAPE SCOTT	13.2	0.0	19.4	9.3	0.0	37.5	45	0	7	X		149.0	
CAPE ST. JAMES	12.9	0.2	21.9	8.7	0.0	39.2	67	0	8	199	*	158.3	
CASTLEGAR	19.8	-0.5	36.2	9.1	0.0	89.3	250	0	9	248	78	19.8	
COMOX	17.6	0.2	29.8	9.7	0.0	34.9	125	0	5	X		33.3	
CRANBROOK	18.3	-0.1	34.6	6.3	0.0	65.4	298	0	11	273	*	49.8	
DEASE LAKE	14.2	1.7	28.2	-0.1	0.0	59.2	106	0	11	277	139	117.7	
ETHELDA BAY	12.8	-0.4	22.9	4.2	0.0	45.0	35	0	9	X		161.8	
FORT NELSON	16.2	-0.4	28.7	6.6	0.0	125.6	148	0	14	201	*	66.0	
FORT ST. JOHN	16.0	0.4	29.4	6.5	0.0	155.6	201	0	12	X		74.2	
HOPE	18.0	-0.5	29.3	10.3	0.0	136.4	368	0	9	218	84	29.5	
KAMLOOPS	21.3	0.5	37.5	10.3	0.0	21.4	95	0	4	276	87	5.0	
KELOWNA	19.8	1.1	36.9	6.5	0.0	49.2	204	0	7	272	87	10.0	
LANGARA	11.9	-0.3	16.9	8.1	0.0	46.1	57	0	7	X		188.5	
LYTTON	21.2	-0.4	35.7	9.9	0.0	33.8	307	0	7	228	77	8.0	
MACKENZIE	15.9	1.0	32.1	0.0	0.0	102.6	198	0	10	291	107	75.8	
MCINNES ISLAND	14.4	0.7	20.4	9.2	0.0	49.1	49	0	10	X		111.7	
PENTICTON	20.7	0.4	36.6	9.7	0.0	36.0	170	0	8	262	84	5.6	
PORT ALBERNI	16.9	*	29.9	5.5	0.0	24.2	*	0	6	238	*	48.2	
PORT HARDY	14.1	0.5	26.1	7.5	0.0	40.7	78	0	7	238	120	122.4	
PRINCE GEORGE	16.5	1.4	31.8	2.1	0.0	39.4	65	0	8	295	100	57.6	
PRINCE RUPERT	13.0	0.2	18.1	7.0	0.0	50.3	48	0	10	176	123	154.3	
PRINCETON	17.3	-0.5	32.0	5.5	0.0	73.8	328	0	9	264	*	MSG	
QUESNEL	18.1	1.7	32.0	4.6	0.0	49.6	94	0	9	X		27.5	
REVELSTOKE	19.2	0.8	32.5	8.5	0.0	106.6	187	0	8	238	88	22.3	
SANDSPIT	14.1	0.1	21.5	8.9	0.0	34.6	80	0	8	205	109	122.2	
SMITHERS	16.1	1.4	30.1	2.9	0.0	77.4	168	0	7	272	112	66.4	
TERRACE	17.2	1.1	31.3	6.4	0.0	43.2	76	0	5	297	170	50.7	
VANCOUVER HARBOUR	17.6	0.0	26.4	11.3	0.0	60.7	142	0	8	X		27.6	
VANCOUVER INT'L	17.5	0.2	25.5	10.7	0.0	36.2	113	0	7	276	89	27.4	
VICTORIA GONZ. HTS	15.4	0.0	25.6	8.8	0.0	11.6	86	0	3	288	84	81.7	
VICTORIA INT'L	16.2	-0.1	29.2	6.9	0.0	13.0	71	0	3	293	89	60.4	
VICTORIA MARINE	14.3	0.3	25.9	7.3	0.0	29.3	129	0	7	X		115.8	
WILLIAMS LAKE	16.6	1.2	30.8	5.4	0.0	46.5	96	0	7	269	86	59.1	

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	Mean	Difference from Normal	Maximum	Minimum									
YUKON TERRITORY													
BURWASH	14.0	1.7	27.3	1.9	0.0		32.6	53	0	8	X		123.9
DAWSON	15.6	0.9	27.4	3.0	0.0		54.6	161	0	11	X		71.9
MAYO	16.3	1.1	27.1	4.2	0.0		33.0	63	0	8	X		56.6
WATSON LAKE	15.2	0.3	27.6	6.5	0.0		65.3	112	0	12	213	81	89.4
WHITEHORSE	15.0	0.9	27.4	3.8			29.8	87	0	10	265	105	99.5
NORTHWEST TERRITORIES													
ALERT	2.5	-1.1	14.1	-2.1	25.3	227	48.1	246		11	181	60	481.9
BAKER LAKE	10.3	-0.7	24.0	1.5	0.0		46.8	120	0	6	338	112	238.3
CAMBRIDGE BAY	7.6	-0.3	17.5	0.1			46.5	236	0	8	348	114	322.3
CAPE DYER	5.0	-0.1	13.4	-2.0	1.0	14	8.0	18		3	X		403.3
CAPE PARRY	6.6	0.9	16.6	0.4	0.2	28	43.4	255	0	6	X		354.2
CLYDE	3.6	-0.5	16.9	-2.8	3.8	50	6.2	27		2	302	116	447.1
COPPERMINE	10.0	0.3	27.2	1.7	0.0		24.0	93	0	5	355	111	249.5
CORAL HARBOUR	8.3	-0.4	19.9	0.7	0.0		58.5	143	0	8	208	72	301.6
EUREKA	6.0	0.6	15.2	-1.8	0.4	36	15.2	125	0	1	486	142	370.4
FORT RELIANCE	13.9	0.0	29.5	4.8	0.0		12.1	35	0	3	X		140.4
FORT SIMPSON	17.0	0.4	29.3	1.9	0.0		26.2	44	0	4	312	107	31.5
FORT SMITH	16.4	0.4	30.3	1.1	0.0		24.8	43	0	6	309	102	78.4
IQALUIT	7.6	0.0	18.3	0.8	0.0		55.6	87	0	13	257	127	321.5
HALL BEACH	6.0	0.6	16.5	0.4			26.8	77	0	7	X		372.3
HAY RIVER	15.1	-0.7	29.7	3.0	0.0		60.4	125	0	6	X		98.1
INUVIK	14.6	1.0	29.6	2.3	0.0		20.6	61	0	7	419	123	117.9
MOULD BAY	4.8	0.9	14.6	-0.8			2.1	14	0	1	350	126	409.5
NORMAN WELLS	17.1	0.8	27.6	1.5	0.0		11.8	21	0	4	336	116	51.8
POND INLET	5.5	1.1	15.1	-3.1	0.0		12.8	23	0	4	X		387.5
RESOLUTE	5.2	1.1	14.0	-1.4	1.0	30	7.2	32	0	2	359	130	396.5
YELLOWKNIFE	16.6	0.3	27.5	7.2	0.0		9.8	28	0	4	427	111	65.6
ALBERTA													
BANFF	14.6	-0.2	32.5	3.0	0.0		79.6	187	0	14	X		
BROOKS	17.9	-0.6	34.0	6.0	0.0		43.2	108	0		296	*	
CALGARY INT'L	15.8	-0.6	31.0	3.9	0.0		126.3	193	0	12	271	84	93.0
COLD LAKE	17.3	0.4	30.8	6.4	0.0		110.3	128	0	12	256	81	59.6
CORONATION	16.5	-0.8	33.0	4.3	0.0		130.8	207	0	12	297	88	91.3
EDMONTON INT'L	15.8	0.0	30.3	3.9	0.0		120.2	131	0	13	260	83	88.0
EDMONTON MUNI.	17.5	0.1	31.7	6.5	0.0		121.4	136	0	15	282	92	58.8
EDMONTON NAMAO	16.9	0.0	31.1	5.3	0.0		116.9	153	0	12	X		68.7
EDSON	14.8	0.4	29.2	2.1	0.0		114.2	127	0	13	219	77	108.8
FORT CHIPEWYAN	16.8	0.8	31.0	3.0	0.0		83.2	110	0		X		

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	Mean	Difference from Normal	Maximum	Minimum									
FORT MCMURRAY	17.3	0.9	33.8	3.6	0.0		31.1	41	0	9	295	103	68.8
GRANDE PRAIRIE	16.2	0.3	31.0	4.4	0.0		73.6	113	0	7	267	*	61.6
HIGH LEVEL	15.7	0.0	29.9	2.6	0.0		66.7	96	0	11	308	104	87.5
JASPER	15.8	0.7	31.4	4.4	0.0		67.2	135	0	13	234	*	86.1
LETHBRIDGE	17.6	-1.0	33.7	4.1	0.0		103.4	237	0	6	308	89	58.7
MEDICINE HAT	19.4	-0.5	36.6	6.2	0.0		40.4	100	0	8	339	97	41.6
PEACE RIVER	17.0	1.3	32.6	4.8	0.0		71.8	118	0	9	X		59.9
RED DEER	15.5	-0.6	30.7	2.1	0.0		86.4	111	0	14	X		96.6
ROCKY MTN HOUSE	14.3	-1.0	28.9	0.5	0.0		133.5	143	0	17	X		126.4
SLAVE LAKE	16.6	1.0	30.7	4.4	0.0		70.6	91	0	9	295	100	69.6
SUFFIELD	19.1	*	37.4	6.7	0.0		44.2	*	0	8	310	*	49.9
WHITECOURT	16.1	1.0	29.9	4.4	0.0		60.6	59	0	10	X		80.5
SASKATCHEWAN													
BROADVIEW	17.2	-0.5	33.1	4.6	0.0		107.8	211	0	12	284	85	55.6
COLLINS BAY	14.9	0.8	26.4	4.1	0.0		36.7	42	0	8	332	*	113.1
CREE LAKE	15.7	0.1	30.1	4.9	0.0		49.4	62	0	9	250	89	92.2
ESTEVAN	19.6	-0.3	36.0	7.9	0.0		96.3	178	0	10	276	77	25.0
HUDSON BAY	16.7	-0.6	31.5	5.0	0.0		94.8	118	0	13	236	*	68.6
KINDERSLEY	17.9	-0.4	36.0	4.5	0.0		58.6	122	0	11	X		57.9
LA RONGE	16.7	0.0	31.6	4.5	0.0		54.6	60	0	11	X		71.2
MEADOW LAKE	16.6	-0.6	30.8	4.7	0.0		143.2	173	0	15	239	*	69.4
MOOSE JAW	18.7	-1.0	34.2	5.0	0.0		128.5	240	0	15	277	80	38.7
NIPAWIN	16.7	*	31.0	6.6	0.0	*	83.0	*	0	13	204	*	67.9
NORTH BATTLEFORD	17.7	-0.4	33.9	6.0	0.0		108.9	167	0	15	X		54.1
PRINCE ALBERT	17.3	-0.1	32.1	6.1	0.0		175.8	269	0	15	224	75	57.0
REGINA	18.2	-0.7	34.4	7.2	0.0		90.3	169	0	12	276	80	46.5
SASKATOON	18.4	-0.1	34.8	4.3	0.0		37.2	68	0	8	X		43.4
SWIFT CURRENT	18.1	-0.2	33.5	2.8	0.0		66.6	142	0	7	285	83	69.0
WYNYARD	17.1	-0.9	32.9	4.5	0.0		74.2	131	0	8	252	77	65.1
YORKTON	17.4	-0.9	32.8	6.2	0.0		97.8	172	0	10	271	82	52.9
MANITOBA													
BRANDON	18.3	-0.5	32.7	5.1	0.0		108.5	162	0	11	X		27.5
CHURCHILL	12.1	0.3	30.2	1.6	0.0		37.0	81	0	8	340	119	188.3
DAUPHIN	18.1	-0.4	32.5	5.0	0.0		78.5	122	0	10	247	76	
GILLAM	15.0	0.0	30.8	3.0	0.0		30.4	32	0	5	X		103.0
GIMLI	19.0	0.4	31.5	7.5	0.0		127.5	220	0	12	263	80	23.4
ISLAND LAKE	17.1	0.0	31.7	6.7	0.0		101.6	97	0	4	X		56.8
LYNN LAKE	17.4	1.6	30.5	4.8	0.0		62.1	75	0	10	285	102	86.7
NORWAY HOUSE	16.5	*	32.2	4.6	0.0		114.0	*	0	11	X		73.7
PORTAGE LA PRAIRIE	19.7	0.0	32.4	7.0	0.0		92.7	121	0	10	X		14.6

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	Mean	Difference from Normal	Maximum	Minimum									
THE PAS	17.2	-0.5	33.2	4.1	0.0		53.4	76	0	11	234	77	62.5
THOMPSON	15.5	-0.1	31.8	2.7	0.0		42.8	45	0	9	264	103	94.0
WINNIPEG INT'L	20.0	0.4	33.3	9.0	0.0		130.1	171	0	13	267	84	13.8
ONTARIO													
ATIKOKAN	18.3	1.1	31.2	1.7	0.0		138.6	131	0	16	239	83	32.7
BIG TROUT LAKE	16.1	0.1	28.0	5.3	0.0		51.3	54	0	7	252	*	70.1
EARLTON	18.7	1.0	34.1	5.3	0.0		100.1	123	0	10	X		36.8
GERALDTON	16.7	0.4	28.6	4.9	0.0		94.2	115	0	16	X		65.0
GORE BAY	20.5	1.7	31.2	7.2	0.0		18.2	29	0	6	X		14.8
HAMILTON RBG	23.5	1.8	35.0	11.1	0.0		99.4	148	0	9	327	*	4.8
HAMILTON	22.4	1.9	32.4	11.1	0.0		188.3	267	0	10	X		54.8
KAPUSKASING	17.6	0.8	31.6	3.8	0.0		140.5	145	0	14	X		22.5
KENORA	20.3	1.1	32.4	6.9	0.0		101.4	110	0	9	X		6.7
KINGSTON	21.7	1.6	31.6	10.2	0.0		47.7	89	0	6	288	102	53.2
LANSDOWNE HOUSE	17.0	0.0	28.6	6.5	0.0		115.0	120	0	7	X		3.4
LONDON	22.8	2.5	35.3	11.6	0.0		34.8	48	0	4	267	97	112.3
MOOSONEE	15.1	-0.2	31.3	-0.1	0.0		102.0	106	0	13	217	91	16.9
MUSKOKA	20.4	2.1	33.6	6.6	0.0		62.3	80	0	8	X		21.2
NORTH BAY	19.9	1.6	31.4	7.1	0.0		73.0	71	0	9	283	103	6.2
OTTAWA INT'L	21.9	1.3	34.3	9.2	0.0		117.1	136	0	9	X		22.0
PETAWAWA	20.3	1.6	34.9	5.0	0.0		68.2	80	0	5	X		11.8
PETERBOROUGH	21.3	2.1	34.1	6.0	0.0		44.4	56	0	8	X		21.5
PICKLE LAKE	17.3	0.2	28.9	5.1	0.0		120.6	108	0	12	X		40.9
RED LAKE	18.2	0.0	32.5	3.1	0.0		88.0	101	0	13	258	*	1.3
ST. CATHARINES	23.6	1.9	33.3	12.3	0.0		89.4	129	0	9	X		5.6
SARNIA	22.8	1.9	36.6	9.7	0.0		46.8	77	0	8	316	107	29.4
SAULT STE. MARIE	19.4	2.1	31.3	3.7	1.0		95.2	171	0	9	272	94	32.4
SIoux LOOKOUT	18.9	0.6	31.4	4.5	0.0		112.2	119	0	10	X		16.6
SUDBURY	20.3	1.6	32.3	5.7	0.0		46.4	54	0	8	272	94	38.6
THUNDER BAY	18.2	0.6	32.7	3.4	0.0		85.9	113	0	13	245	80	55.6
TIMMINS	17.5	0.3	32.9	3.9	0.0		144.5	159	0	15	X		1.1
TORONTO	23.7	1.7	34.1	13.3	0.0		73.6	99	0	7	X		4.4
TORONTO INT'L	22.5	1.9	33.5	10.7	0.0		108.1	151	0	11	X		7.1
TORONTO ISLAND	22.5	2.2	33.8	12.4	0.0		101.2	143	0	8	X		9.3
TRENTON	22.1	1.5	32.9	8.7	0.0		33.4	54	0	5	X		64.2
WATERLOO-WELL	21.4	1.6	31.5	9.1	0.0		195.4	258	0	11	X		14.1
WAWA	16.4	*	27.6	3.8	0.0	*	93.0	*	0	11	X		2.5
WIARTON	21.1	2.6	32.2	7.3	0.0		47.7	63	0	7	334	113	
WINDSOR	24.0	1.8	34.5	11.0	0.0		89.0	106	0	11	X		

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	Mean	Difference from Normal	Maximum	Minimum									
QUEBEC													
BAGOTVILLE	18.4	0.5	34.9	7.0	0.0		138.2	114	0	12	X		50.6
BAIE COMEAU	15.9	0.1	29.8	5.8	0.0		53.7	66	0	7	261	*	80.6
BLANC SABLON	13.2	2.1	22.0	3.7	0.0		13.2	13	0	14	224	*	
CHIBOUGAMAU	16.6	0.8	31.2	4.1	0.0		146.5	127	0	15	213	85	80.4
GASPE	16.9	-0.3	33.8	2.5	0.0		63.8	76	0	6	301	*	65.8
INUKJUAK	8.5	-0.8	18.7	0.4	0.0		62.6	115	0	12	236	114	296.6
KUUVJUAQ	9.6	-1.8	21.0	0.0	0.0		50.7	87	0	12	194	98	257.3
KUUVJUAPIK	10.1	-0.4	24.9	2.0	0.0		78.9	93	0	10	217	128	266.9
LA GRANDE RIVIERE	13.6	*	28.4	2.4	0.0	*	65.8	*	0	13	211	*	143.8
MANIWAKI	19.7	1.4	34.0	4.0	0.0		85.6	93	0	8	259	95	34.2
MATAGAMI	16.2	0.6	31.0	2.5	0.0		149.2	141	0	15	233	93	57.3
MONT JOLI	18.6	1.3	32.4	8.3	0.0		56.0	74	0	8	266	105	53.6
MONTREAL INT'L	21.6	0.7	33.6	8.4	0.0		131.0	145	0	7	296	107	8.7
MONTREAL MINT'L	19.7	*	31.7	5.1	0.0	*	115.6	*	0	7	283	*	26.6
NATASHQUAN	15.1	0.9	24.8	5.2	0.0		72.8	76	0	7	287	117	97.7
QUEBEC	19.5	0.4	33.1	7.4	0.0		140.6	120	0	10	260	105	29.3
ROBERVAL	19.1	1.2	34.4	6.9	0.0		82.0	68	0	11	234	*	42.2
SCHIEFFERVILLE	11.9	-0.7	27.6	4.1	0.0		189.2	195	0	17	169	*	193.1
SEPT-ILES	15.8	-0.1	31.9	7.9	0.0		90.0	92	0	12	248	102	79.9
SHERBROOKE	18.9	1.1	32.0	3.8	0.0		84.6	72	0	8	294	*	45.4
STE AGATHE DES MONTS	18.6	1.4	31.7	3.2	0.0		73.0	68	0	10	249	90	46.9
ST-HUBERT	21.1	0.4	33.2	6.5	0.0		41.2	42	0	6	*	*	14.3
VAL D'OR	17.8	0.7	31.1	1.4	0.0		108.6	106	0	14	240	92	64.6
NEW BRUNSWICK													
CHARLO	18.4	1.0	31.4	7.1	0.0		36.7	42	0	8	256	100	45.2
CHATHAM	19.4	0.2	32.1	7.5	0.0		97.2	106	0	7	259	102	22.8
FREDERICTON	18.7	-0.6	30.4	5.9	0.0		28.1	31	0	7	237	*	24.0
MONCTON	18.7	0.2	29.4	6.6	0.0		19.1	20	0	5	288	118	22.8
SAINT JOHN	16.9	0.0	28.1	6.5	0.0		32.4	31	0	7	217	99	44.7

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NOVA SCOTIA													
GREENWOOD	19.2	0.1	29.9	5.4	0.0		64.2	82	0	5	X		16.2
HALIFAX INT'L	18.7	0.5	27.6	9.0	0.0		61.3	65	0	4	*		17.9
SABLE ISLAND	15.8	0.3	22.5	6.9	0.0		42.8	46	0	8	217	132	69.4
SHEARWATER	18.3	0.9	28.3	9.8	0.0		55.3	56	0	4	231	105	21.8
SYDNEY	18.1	0.4	30.2	5.6	0.0		17.9	21	0	5	283	116	40.2
YARMOUTH	16.5	0.2	25.8	8.2	0.0		30.4	39	0	7	202	97	55.9
PRINCE EDWARD ISLAND													
CHARLOTTETOWN	19.1	0.8	28.9	9.8	0.0		8.9	10	0	4	X		16.6
SUMMERSIDE	19.2	0.3	29.8	9.5	0.0		19.1	24	0	5	287	108	12.9
NEWFOUNDLAND													
BATTLE HARBOUR	12.9	2.3	29.8	2.6	0.0		82.4	117		12	X		160.9
BONAVISTA	15.5	0.8	28.5	6.5	0.0		37.0	60	0	5	X		95.1
BURGO	14.9	1.4	23.8	6.2	0.0		42.8	31	0	10	*		93.9
CARTWRIGHT	11.7	-1.0	26.9		1.8		81.9	98	0	17	226	113	194.3
CHURCHILL FALLS	13.7	0.0	29.0	0.9	0.0		173.8	144	0	18	187	92	141.1
COMFORT COVE	17.0	0.4	23.4	10.5	0.0		28.9	36	0	5	X		63.1
DANIEL'S HARBOUR	14.3	-0.1	23.0	7.0	0.0		43.0	48	0	5	238	116	113.8
DEER LAKE	17.3	1.4	31.6	2.0	0.0		28.6	36	0	9	X		58.9
GANDER INT'L	17.3	0.8	30.8	5.1	0.0		10.5	15	0	3	302	140	52.9
GOOSE	15.7	-0.1	31.3	4.3	0.0		105.2	100	0	14	197	100	82.2
PORT-AUX-BASQUES	14.1	0.9	21.5	5.7	0.0		56.6	52	0	8	214	*	99.5
ST ANTHONY	12.3	-0.6	25.5	2.0	0.0		69.6	69	0	9	*		175.2
ST JOHN'S	15.5	0.0	28.6	4.5	0.0		50.8	67	0	6	272	123	96.5
ST LAWRENCE	15.5	3.4	27.2	5.2	0.0		44.5	45	0	5	*		
STEPHENVILLE	17.0	1.0	30.6	5.1	0.0		42.2	44	0	***	*		57.0
WABUSH LAKE	14.0	0.5	28.7	2.9	0.0		167.7	159	0	20	210	*	134.9

AGROCLIMATOLOGICAL STATIONS

JULY 1987

STATION	Temperature C				Snowfall (cm)	Total Precipitation (mm)	% of Normal Precipitation	Snow on ground at end of month (cm)	No. of days with Precip 1.0 mm or more	Bright Sunshine (hours)	Degree days above 5 C	
	Mean	Difference from Normal	Maximum	Minimum							This month	Since Jan. 1st
BRITISH COLUMBIA												
AGASSIZ	17.6	-0.3	30.0	10.0	0.0	106.2	228	0	11	219	391.1	1272.6
KAMLOOPS	16.8	*	26.5	7.0	0.0	9.0	*	0	2	276	367.2	1177.5
SIDNEY	20.8	-0.1	36.5	9.5	0.0	28.4	128	0	9	269	489.9	1502.0
SUMMERLAND												
ALBERTA												
BEAVERLODGE	16.0	0.8	31.0	3.0	0.0	91.0	142	0	11	255	341.7	859.0
ELLERSLIE												
FORT VERMILLION	15.5	-0.6	31.0	2.0	0.0	103.6	143	0	13	260	324.2	884.5
LACOMBE												
LETHBRIDGE	16.7	0.4	33.5	3.0	0.0	66.6	89	0	12		361.4	989.4
VAUXHALL												
VEGREVILLE												
SASKATCHEWAN												
INDIAN HEAD	18.2	0.4	36.0	6.0	0.0	69.8	131	0	11		413.0	1251.0
MELFORT	17.2	-0.2	34.0	6.0	0.0	87.8	136	0	14	207	376.5	1119.0
REGINA	17.9	-0.7	35.5	4.0	0.0	77.6	147	0	12		398.8	1156.3
SASKATOON	18.3	-0.1	33.5	5.0	0.0	26.3	47	0	2	217	416.5	1251.0
SCOTT	17.1	0.1	33.0	4.5	0.0	157.4	261	0	15	277	474.0	1070.2
SWIFT CURRENT SOUTH	17.5	0.6	34.0	3.0	0.0	59.4	155	0	7	274	400.6	1229.7
MANITOBA												
BRANDON	19.0	0.2	33.0	5.1	0.0	77.0	111	0	10		432.7	1291.2
GLENLEA	19.6	0.0	32.5	6.0	0.0	162.3	220	0	9	258	454.2	1292.0
MORDEN	20.1	-0.1	32.5	9.0	0.0	148.0	202	0	10	250	474.5	1428.5
ONTARIO												
DELHI	22.4	1.7	35.0	9.0	0.0	33.7	48	0	5	305	538.8	1440.5
ELORA	20.1	1.0	30.5	7.6	0.0	130.6	179	0	7		469.0	1280.0

STATION	Temperature C				Snowfall (cm)	Total Precipitation (mm)	% of Normal Precipitation	Snow on ground at end of month (cm)	No. of days with Precip 1.0 mm or more	Bright Sunshine (hours)	Degree days above 5 C	
	Mean	Difference from Normal	Maximum	Minimum							This month	Since Jan. 1st
GUELPH	21.3	1.4	31.5	7.5	0.0	104.6	129	0	7	295	504.0	1306.3
HARROW	23.5	1.5	33.0	10.0	0.0	102.7	129	0	7	296	573.5	1648.9
KAPUSKASING	17.4	0.5	31.5	3.0	0.0	118.2	128	0	12	246	383.3	956.8
MERIVALE												
OTTAWA	21.8	1.2	33.6	8.2	0.0	59.0	69	0	7	286	520.3	1369.4
SMITHFIELD	22.5	2.3	32.5	8.0	0.0	50.1	74	0	4		533.5	1456.2
VINELAND STATION	23.2	0.7	33.0	12.0	0.0	79.2	128	0	9	310	564.6	1439.5
WOODSLEE												
QUEBEC												
LA POCAIERE	18.8	0.1	33.5	6.5	0.0	90.8	95	0	8	270	429.7	986.8
L'ASSUMPTION	20.8	0.6	33.5	4.5	0.0	90.5	97	0	7	276	490.0	1248.2
LENNOXVILLE												
NORMANDIN	17.8	0.8	35.0	4.0	0.0	84.2	74	0	11	253	393.8	878.4
ST. AUGUSTIN	21.2	1.0	33.0	7.0	0.0	150.0	168	0	9	283	495.4	1283.3
STE CLOTHILDE												
NEW BRUNSWICK												
FREDERICTON	18.9	0.2	31.0	7.5	0.0	36.7	41	0	10	237	339.3	939.6
NOVA SCOTIA												
KENTVILLE	19.7	0.5	30.0	8.0	0.0	36.4	52	0	5	256	455.4	1037.5
NAPPAN	18.6	0.6	30.0	5.0	0.0	17.9	21	0	6	253	426.3	942.3
PRINCE EDWARD ISLAND												
CHARLOTTETOWN	19.5	0.6	29.0	9.5	0.0	7.8	97	0	4	285	450.1	908.0
NEWFOUNDLAND												
ST. JOHN'S WEST	16.1	0.5	27.5	4.0	0.0	50.0	68	0	4	250	343.2	614.9

SECRET

VEHICLE INFORMATION SYSTEM									
VEHICLE ID	VEHICLE TYPE	VEHICLE MAKE	VEHICLE MODEL	VEHICLE YEAR	VEHICLE COLOR	VEHICLE VIN	VEHICLE LICENSE	VEHICLE STATUS	
								VEHICLE STATUS	VEHICLE STATUS
1001	SEDAN	FORD	FORD MUSTANG	2000	BLACK	1F3P06A000A000000	1001	ACTIVE	ACTIVE
1002	SUV	TOYOTA	TOYOTA 4Runner	2001	SILVER	4T4B08A0000000000	1002	ACTIVE	ACTIVE
1003	TRUCK	CHEVROLET	CHEVROLET SILVERADO	2002	WHITE	1G1F0000000000000	1003	ACTIVE	ACTIVE
1004	SEDAN	BMW	BMW 3 Series	2003	GRAY	5UWY0000000000000	1004	ACTIVE	ACTIVE
1005	SUV	NISSAN	NISSAN Xterra	2004	BLUE	5N1AB080000000000	1005	ACTIVE	ACTIVE
1006	TRUCK	DODGE	DODGE RAM	2005	BROWN	1D3H0000000000000	1006	ACTIVE	ACTIVE
1007	SEDAN	MAZDA	MAZDA3	2006	RED	3N1AB080000000000	1007	ACTIVE	ACTIVE
1008	SUV	ACURA	ACURA MDX	2007	BLACK	2F3P06A0000000000	1008	ACTIVE	ACTIVE
1009	TRUCK	CHEVROLET	CHEVROLET SILVERADO	2008	WHITE	1G1F0000000000000	1009	ACTIVE	ACTIVE
1010	SEDAN	FORD	FORD MUSTANG	2009	BLACK	1F3P06A0000000000	1010	ACTIVE	ACTIVE
1011	SUV	TOYOTA	TOYOTA 4Runner	2010	SILVER	4T4B08A0000000000	1011	ACTIVE	ACTIVE
1012	TRUCK	CHEVROLET	CHEVROLET SILVERADO	2011	WHITE	1G1F0000000000000	1012	ACTIVE	ACTIVE
1013	SEDAN	BMW	BMW 3 Series	2012	GRAY	5UWY0000000000000	1013	ACTIVE	ACTIVE
1014	SUV	NISSAN	NISSAN Xterra	2013	BLUE	5N1AB080000000000	1014	ACTIVE	ACTIVE
1015	TRUCK	DODGE	DODGE RAM	2014	BROWN	1D3H0000000000000	1015	ACTIVE	ACTIVE
1016	SEDAN	MAZDA	MAZDA3	2015	RED	3N1AB080000000000	1016	ACTIVE	ACTIVE
1017	SUV	ACURA	ACURA MDX	2016	BLACK	2F3P06A0000000000	1017	ACTIVE	ACTIVE
1018	TRUCK	CHEVROLET	CHEVROLET SILVERADO	2017	WHITE	1G1F0000000000000	1018	ACTIVE	ACTIVE
1019	SEDAN	FORD	FORD MUSTANG	2018	BLACK	1F3P06A0000000000	1019	ACTIVE	ACTIVE
1020	SUV	TOYOTA	TOYOTA 4Runner	2019	SILVER	4T4B08A0000000000	1020	ACTIVE	ACTIVE
1021	TRUCK	CHEVROLET	CHEVROLET SILVERADO	2020	WHITE	1G1F0000000000000	1021	ACTIVE	ACTIVE
1022	SEDAN	BMW	BMW 3 Series	2021	GRAY	5UWY0000000000000	1022	ACTIVE	ACTIVE
1023	SUV	NISSAN	NISSAN Xterra	2022	BLUE	5N1AB080000000000	1023	ACTIVE	ACTIVE
1024	TRUCK	DODGE	DODGE RAM	2023	BROWN	1D3H0000000000000	1024	ACTIVE	ACTIVE
1025	SEDAN	MAZDA	MAZDA3	2024	RED	3N1AB080000000000	1025	ACTIVE	ACTIVE
1026	SUV	ACURA	ACURA MDX	2025	BLACK	2F3P06A0000000000	1026	ACTIVE	ACTIVE
1027	TRUCK	CHEVROLET	CHEVROLET SILVERADO	2026	WHITE	1G1F0000000000000	1027	ACTIVE	ACTIVE
1028	SEDAN	FORD	FORD MUSTANG	2027	BLACK	1F3P06A0000000000	1028	ACTIVE	ACTIVE
1029	SUV	TOYOTA	TOYOTA 4Runner	2028	SILVER	4T4B08A0000000000	1029	ACTIVE	ACTIVE
1030	TRUCK	CHEVROLET	CHEVROLET SILVERADO	2029	WHITE	1G1F0000000000000	1030	ACTIVE	ACTIVE
1031	SEDAN	BMW	BMW 3 Series	2030	GRAY	5UWY0000000000000	1031	ACTIVE	ACTIVE
1032	SUV	NISSAN	NISSAN Xterra	2031	BLUE	5N1AB080000000000	1032	ACTIVE	ACTIVE
1033	TRUCK	DODGE	DODGE RAM	2032	BROWN	1D3H0000000000000	1033	ACTIVE	ACTIVE
1034	SEDAN	MAZDA	MAZDA3	2033	RED	3N1AB080000000000	1034	ACTIVE	ACTIVE
1035	SUV	ACURA	ACURA MDX	2034	BLACK	2F3P06A0000000000	1035	ACTIVE	ACTIVE
1036	TRUCK	CHEVROLET	CHEVROLET SILVERADO	2035	WHITE	1G1F0000000000000	1036	ACTIVE	ACTIVE
1037	SEDAN	FORD	FORD MUSTANG	2036	BLACK	1F3P06A0000000000	1037	ACTIVE	ACTIVE
1038	SUV	TOYOTA	TOYOTA 4Runner	2037	SILVER	4T4B08A0000000000	1038	ACTIVE	ACTIVE
1039	TRUCK	CHEVROLET	CHEVROLET SILVERADO	2038	WHITE	1G1F0000000000000	1039	ACTIVE	ACTIVE
1040	SEDAN	BMW	BMW 3 Series	2039	GRAY	5UWY0000000000000	1040	ACTIVE	ACTIVE
1041	SUV	NISSAN	NISSAN Xterra	2040	BLUE	5N1AB080000000000	1041	ACTIVE	ACTIVE
1042	TRUCK	DODGE	DODGE RAM	2041	BROWN	1D3H0000000000000	1042	ACTIVE	ACTIVE
1043	SEDAN	MAZDA	MAZDA3	2042	RED	3N1AB080000000000	1043	ACTIVE	ACTIVE
1044	SUV	ACURA	ACURA MDX	2043	BLACK	2F3P06A0000000000	1044	ACTIVE	ACTIVE
1045	TRUCK	CHEVROLET	CHEVROLET SILVERADO	2044	WHITE	1G1F0000000000000	1045	ACTIVE	ACTIVE
1046	SEDAN	FORD	FORD MUSTANG	2045	BLACK	1F3P06A0000000000	1046	ACTIVE	ACTIVE
1047	SUV	TOYOTA	TOYOTA 4Runner	2046	SILVER	4T4B08A0000000000	1047	ACTIVE	ACTIVE
1048	TRUCK	CHEVROLET	CHEVROLET SILVERADO	2047	WHITE	1G1F0000000000000	1048	ACTIVE	ACTIVE
1049	SEDAN	BMW	BMW 3 Series	2048	GRAY	5UWY0000000000000	1049	ACTIVE	ACTIVE
1050	SUV	NISSAN	NISSAN Xterra	2049	BLUE	5N1AB080000000000	1050	ACTIVE	ACTIVE
1051	TRUCK	DODGE	DODGE RAM	2050	BROWN	1D3H0000000000000	1051	ACTIVE	ACTIVE
1052	SEDAN	MAZDA	MAZDA3	2051	RED	3N1AB080000000000	1052	ACTIVE	ACTIVE
1053	SUV	ACURA	ACURA MDX	2052	BLACK	2F3P06A0000000000	1053	ACTIVE	ACTIVE
1054	TRUCK	CHEVROLET	CHEVROLET SILVERADO	2053	WHITE	1G1F0000000000000	1054	ACTIVE	ACTIVE
1055	SEDAN	FORD	FORD MUSTANG	2054	BLACK	1F3P06A0000000000	1055	ACTIVE	ACTIVE
1056	SUV	TOYOTA	TOYOTA 4Runner	2055	SILVER	4T4B08A0000000000	1056	ACTIVE	ACTIVE
1057	TRUCK	CHEVROLET	CHEVROLET SILVERADO	2056	WHITE	1G1F0000000000000	1057	ACTIVE	ACTIVE
1058	SEDAN	BMW	BMW 3 Series	2057	GRAY	5UWY0000000000000	1058	ACTIVE	ACTIVE
1059	SUV	NISSAN	NISSAN Xterra	2058	BLUE	5N1AB080000000000	1059	ACTIVE	ACTIVE
1060	TRUCK	DODGE	DODGE RAM	2059	BROWN	1D3H0000000000000	1060	ACTIVE	ACTIVE
1061	SEDAN	MAZDA	MAZDA3	2060	RED	3N1AB080000000000	1061	ACTIVE	ACTIVE
1062	SUV	ACURA	ACURA MDX	2061	BLACK	2F3P06A0000000000	1062	ACTIVE	ACTIVE
1063	TRUCK	CHEVROLET	CHEVROLET SILVERADO	2062	WHITE	1G1F0000000000000	1063	ACTIVE	ACTIVE
1064	SEDAN	FORD	FORD MUSTANG	2063	BLACK	1F3P06A0000000000	1064	ACTIVE	ACTIVE
1065	SUV	TOYOTA	TOYOTA 4Runner	2064	SILVER	4T4B08A0000000000	1065	ACTIVE	ACTIVE
1066	TRUCK	CHEVROLET	CHEVROLET SILVERADO	2065	WHITE	1G1F0000000000000	1066	ACTIVE	ACTIVE
1067	SEDAN	BMW	BMW 3 Series	2066	GRAY	5UWY0000000000000	1067	ACTIVE	ACTIVE
1068	SUV	NISSAN	NISSAN Xterra	2067	BLUE	5N1AB080000000000	1068	ACTIVE	ACTIVE
1069	TRUCK	DODGE	DODGE RAM	2068	BROWN	1D3H0000000000000	1069	ACTIVE	ACTIVE
1070	SEDAN	MAZDA	MAZDA3	2069	RED	3N1AB080000000000	1070	ACTIVE	ACTIVE
1071	SUV	ACURA	ACURA MDX	2070	BLACK	2F3P06A0000000000	1071	ACTIVE	ACTIVE
1072	TRUCK	CHEVROLET	CHEVROLET SILVERADO	2071	WHITE	1G1F0000000000000	1072	ACTIVE	ACTIVE
1073	SEDAN	FORD	FORD MUSTANG	2072	BLACK	1F3P06A0000000000	1073	ACTIVE	ACTIVE
1074	SUV	TOYOTA	TOYOTA 4Runner	2073	SILVER	4T4B08A0000000000	1074	ACTIVE	ACTIVE
1075	TRUCK	CHEVROLET	CHEVROLET SILVERADO	2074	WHITE	1G1F0000000000000	1075	ACTIVE	ACTIVE
1076	SEDAN	BMW	BMW 3 Series	2075	GRAY	5UWY0000000000000	1076	ACTIVE	ACTIVE
1077	SUV	NISSAN	NISSAN Xterra	2076	BLUE	5N1AB080000000000	1077	ACTIVE	ACTIVE
1078	TRUCK	DODGE	DODGE RAM	2077	BROWN	1D3H0000000000000	1078	ACTIVE	ACTIVE
1079	SEDAN	MAZDA	MAZDA3	2078	RED	3N1AB080000000000	1079	ACTIVE	ACTIVE
1080	SUV	ACURA	ACURA MDX	2079	BLACK	2F3P06A0000000000	1080	ACTIVE	ACTIVE
1081	TRUCK	CHEVROLET	CHEVROLET SILVERADO	2080	WHITE	1G1F0000000000000	1081	ACTIVE	ACTIVE
1082	SEDAN	FORD	FORD MUSTANG	2081	BLACK	1F3P06A0000000000	1082	ACTIVE	ACTIVE
1083	SUV	TOYOTA	TOYOTA 4Runner	2082	SILVER	4T4B08A0000000000	1083	ACTIVE	ACTIVE
1084	TRUCK	CHEVROLET	CHEVROLET SILVERADO	2083	WHITE	1G1F0000000000000	1084	ACTIVE	ACTIVE
1085	SEDAN	BMW	BMW 3 Series	2084	GRAY	5UWY0000000000000	1085	ACTIVE	ACTIVE
1086	SUV	NISSAN	NISSAN Xterra	2085	BLUE	5N1AB080000000000	1086	ACTIVE	ACTIVE
1087	TRUCK	DODGE	DODGE RAM	2086	BROWN	1D3H0000000000000	1087	ACTIVE	ACTIVE
1088	SEDAN	MAZDA	MAZDA3	2087	RED	3N1AB080000000000	1088	ACTIVE	ACTIVE
1089	SUV	ACURA	ACURA MDX	2088	BLACK	2F3P06A0000000000	1089	ACTIVE	ACTIVE
1090	TRUCK	CHEVROLET	CHEVROLET SILVERADO	2089	WHITE	1G1F0000000000000	1090	ACTIVE	ACTIVE
1091	SEDAN	FORD	FORD MUSTANG	2090	BLACK	1F3P06A0000000000	1091	ACTIVE	ACTIVE
1092	SUV	TOYOTA	TOYOTA 4Runner	2091	SILVER	4T4B08A0000000000	1092	ACTIVE	ACTIVE
1093	TRUCK	CHEVROLET	CHEVROLET SILVERADO	2092	WHITE	1G1F0000000000000	1093	ACTIVE	ACTIVE
1094	SEDAN	BMW	BMW 3 Series	2093	GRAY	5UWY0000000000000	1094	ACTIVE	ACTIVE
1095	SUV	NISSAN	NISSAN Xterra	2094	BLUE	5N1AB080000000000	1095	ACTIVE	ACTIVE
1096	TRUCK	DODGE	DODGE RAM	2095	BROWN	1D3H0000000000000	1096	ACTIVE	ACTIVE
1097	SEDAN	MAZDA	MAZDA3	2096	RED	3N1AB080000000000	1097	ACTIVE	ACTIVE
1098	SUV	ACURA	ACURA MDX	2097	BLACK	2F3P06A0000000000	1098	ACTIVE	ACTIVE
1099	TRUCK	CHEVROLET	CHEVROLET SILVERADO	2098	WHITE	1G1F0000000000000	1099	ACTIVE	ACTIVE
1100	SEDAN	FORD	FORD MUSTANG	2099	BLACK	1F3P06A0000000000	1100	ACTIVE	ACTIVE