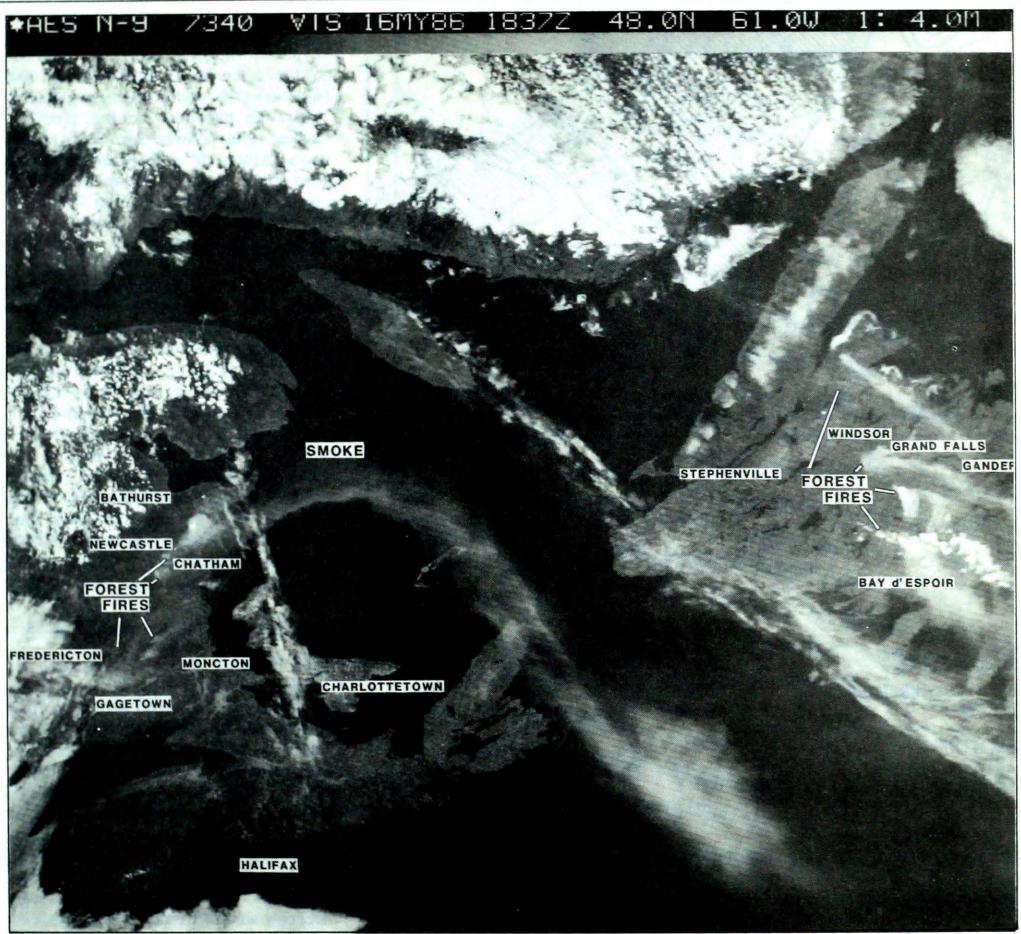
A weekly review of Canadian climate

May 13 to 19, 1986

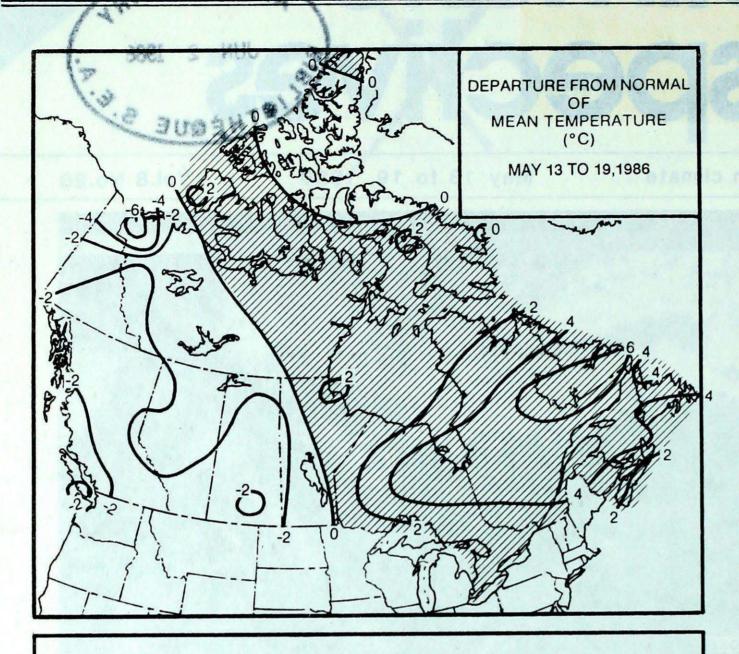
Vol.8 No.20



This NOAA 9 visual satellite photograph of May 16, 1986, shows dense smoke being streamed southeast-wards from the source of several major forest fires, which were burning out of control in New Brunswick and Newfoundland. For more information about the forest fires see page 3.

- Thousands flee forest fires in Atlantic Canada
- Southern Alberta crippled by severe spring snowstorm





WEEKLY TEMPERATURE EXTREME (C)

MAXIMUM

MINIMUM

BRITISH COLUMBIA	PENTICTON	26	WILLIAMS LAKE	-6
YUKON TERRITORY	DAWSON	15	KOMAKUK BEACH A	-16
NORTHWEST TERRITORIES	HAY RIVER	23	HALL BEACH	-20
ALBERTA	MEDICINE HAT	26	LLOYDMINSTER A	-5
SASKATCHEWAN	MOOSE JAW	26	COLLINS BAY	-10
MANITOBA	DAUPHIN	24	CHURCHILL	-9
ONTARIO	OTTAWA INT'L	28	MOOSONEE	-6
QUEBEC	MONTREAL INT'L	30	KUUJJUARAPIK	-6
NEW BRUNSWICK	CHATHAM	29	MONCTON	-2
NOVA SCOTIA	GREENWOOD	30	GREENWOOD	-1
NOVA BOOTIA		-	SHELBURNE	
PRINCE EDWARD ISLAND	CHARLOTTETOWN	26	CHARLOTTETOWN	0
NEWFOUNDLAND	GOOSE	31	ST ANTHONY	-6

ACROSS THE NATION

WARMEST MEAN TEMPERATURE	17	WINDSOR	ONT
COOLEST MEAN TEMPERATURE	-11	MOULD BAY	NWT

rippled by severe spring

ACROSS THE COUNTRY...

Yukon and Northwest Territories

The Yukon was cloudy and cool, which helped keep snow runoff to a minimum. Flooding was the main concern, as most rivers have broken open. In the Northwest Territories, typical spring weather prevailed, with extensive low cloud and a mixture of snow, freezing rain and rain. In the Territories, ice on the lakes and rivers was beginning to show signs of decay. Warmer weather returned towards the end of the period.

British Columbia

Several weather systems brought cool and changeable weather to the province. Most locations received significant amounts of precipitation, ranging up to 90 mm along the coast. A spring snowstorm dumped to 30 cm of snow on northern B.C. The dull, unsettled conditions have set back agriculture by up to three weeks. A dusting of snow blanketted hill tops in the southern valleys. On May 13, a thunderstorm produced strong winds with gusts to 115 km/h at Castlegar, which uprooted trees and damaged buildings and vehicles.

Prairie Provinces

One of the worst spring blizzards in Alberta's history dumped up to 50 cm of snow on parts of southern Alberta The storm, which began on May 13 and lasted for two days, paralyzed all modes of transportation Many highways around Calgary and Red Deer were closed, as were most schools. The wet snow, which fell mainly south of Edmonton, was blown into two-metre high drifts by 80 km/h winds. The heavy snow and strong winds brought down hydro and telephone lines and toppled transmission towers. Some rural locations remained without power until the weekend In Saskatchewan, the storm produced 30 mm of precipitation. Ten to 15 cm of snow fell in the southwest. Record low temperatures were experienced in the wake of the system, but readings recovered to normal values over the Victoria Day weekend.

Ontario

The storm track gradually sagged southwards, bringing disturbances across southern and central Ontario. The increased precipitation was welcomed in the south, due to the lack of rain the last few weeks. Thunderstorms with hail moved across southwestern Ontario on May 17. In northern Ontario, the Indian community of Winisk was ravaged by flood waters, due to melting snow and heavy precipitation. Some forest fires were burning in northeastern Ontario, but all were under control High pressure dominanted the weather picture in northwestern Ontario over the weekend.

Quebec

Clouds and showers moved into the province. The southwest received 20 to 40 millimetres of rain, with up to 70 mm of rain falling near Gatineau. On May 18, heavy thunderstorms moved across the Trois Rivières district. Strong winds, exceeding 100 km/h, downed power lines and destroyed several buildings at St. Barnabé and Ste-Angèle-de-Laval. Eight forest fires were reported burning in the province.

Atlantic Provinces

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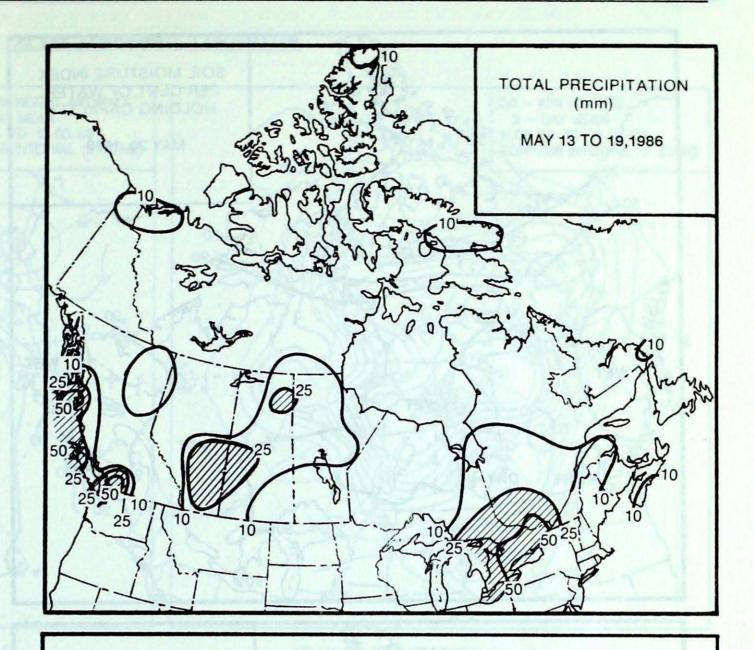
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Day

Dry conditions, which began earlier this month, were a contributing factor for the large forest fire outbreak in eastern Canada this week. Warm and sunny weather most of the week did not help the situation. During the middle of the week, daytime temperatures climbed to record high values in both New Brunswick and Newfoundland, worsening the fire situation. As a result, many fires burned out of control. In the Maritimes, the situation improved over the weekend, when a frontal trough brought scattered shower and thundershower activity to the region. It wasn't until Victoria Day that cooler, damp weather moved into the fireprone areas of Newfoundland In Labrador, colder temperatures and rain over the holiday weekend effectively doused forest fires, which had ignited near Goose Bay on May 15.

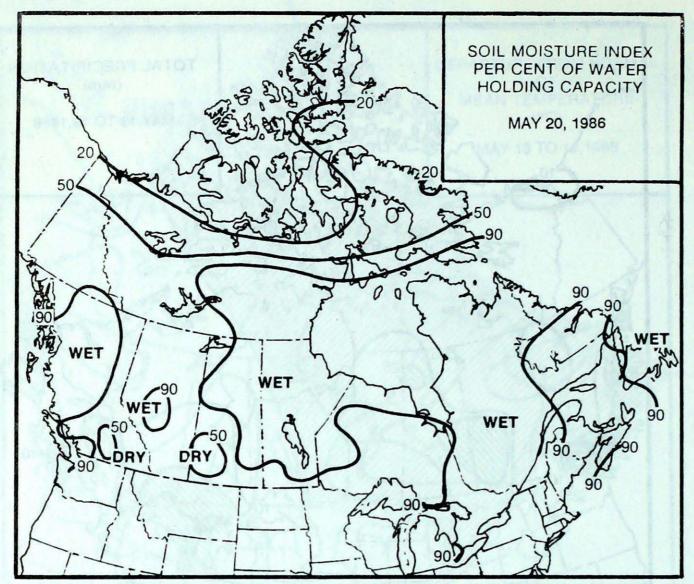


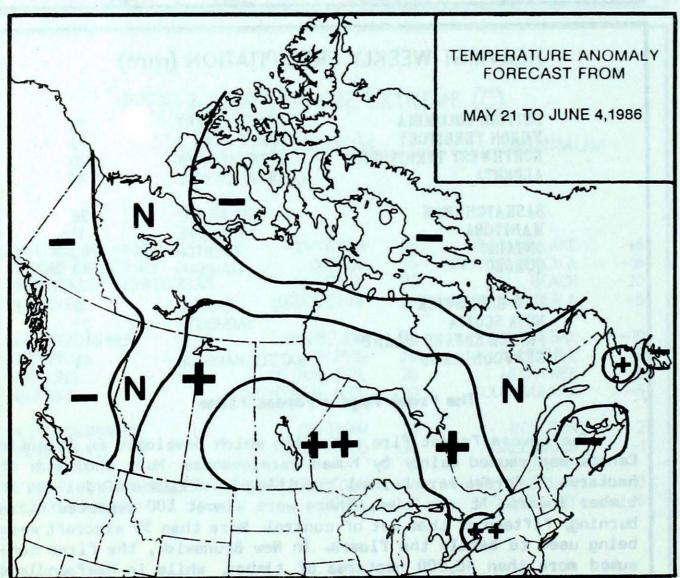
HEAVIEST WEEKLY PRECIPITATION (mm)

BRITISH COLUMBIA YUKON TERRITORY NORTHWEST TERRITORIES ALBERTA	PRINCE RUPERT SHINGLE POINT A FROBISHER BAY EDMONTON INT'L	91 22 20 41
SASKATCHEWAN MANITOBA ONTARIO QUEBEC	COLLINS BAY LYNN LAKE TRENTON MANIWAKI	28 17 68 49
NEW BRUNSWICK NOVA SCOTIA PRINCE EDWARD ISLAND NEWFOUNDLAND	CHARLO YARMOUTH BATTLE HARBOUR	16 23 14

The Front Page - Forest Fires

The severe forest fire situation which developed in Atlantic Canada was caused mainly by human carelessness. Many thousands of hectares of forest were burned, resulting in millions of dollars of timber losses. At one time, there were almost 100 reported fires burning, fifteen of them out of control. More than 35 aircraft were being used to battle the flames. In New Brunswick, the fires consumed more than 40,000 hectares of timber, while in Newfoundland 81,000 hectares has been burned. The fires in New Brunswick have already burned 25 times as much timber as last year. In central Newfoundland it was much the same. Thousands of people were evacuated. The Trans Canada Highway was closed, and many communities were shrouded in smoke. In the communities of Grand Falls and Windsor, residence sprayed water on their homes. On the outskirts of the towns, the flames were kept at bay by water bombers; even so, some buildings were burned to the ground.





Temperature Anomaly Forecast

- ++ much above normal
- + above normal
- N normal
- below normal
- much below normal

This forecast is prepared by searching historical weather maps to find cases similar to the present. The historical outcome during the 15 days subsequent to the chosen analogues is assumed to be a forecast for the next 15 days from now.

CLIMATIC PERSPECTIVES VOLUME 8

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The data shown in this publication are based on unverified reports from approximately 225 Canadian synoptic weather stations. Information concerning climatic impacts is gathered from AES contacts with the public and from the media. Articles do not necessarily reflect the views of the Atmospheric Environment Service.

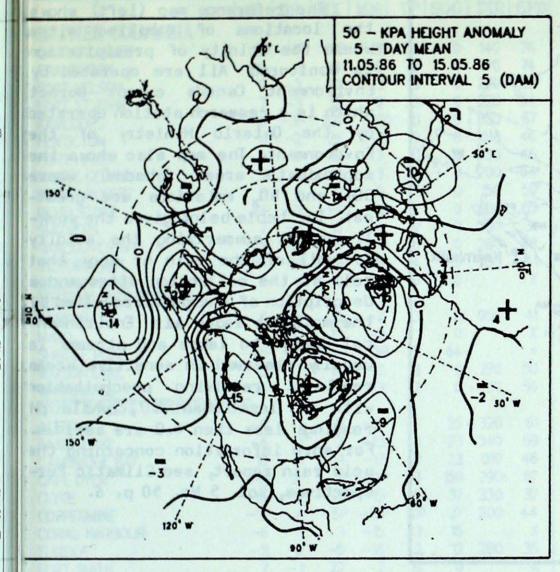
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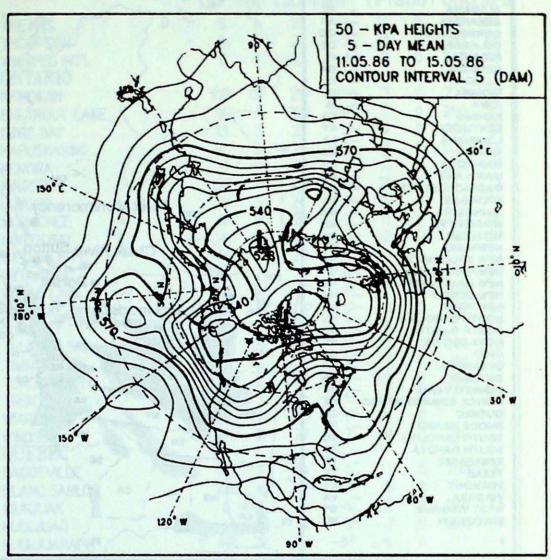
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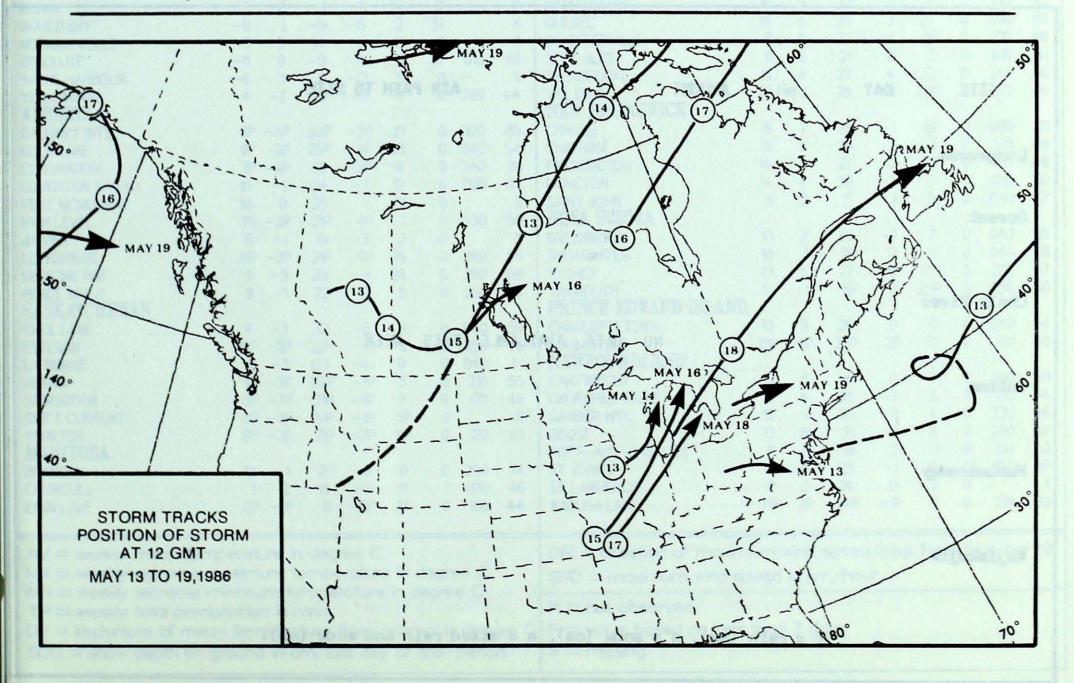
50 KPa ATHOSPHERIC CIRCULATION



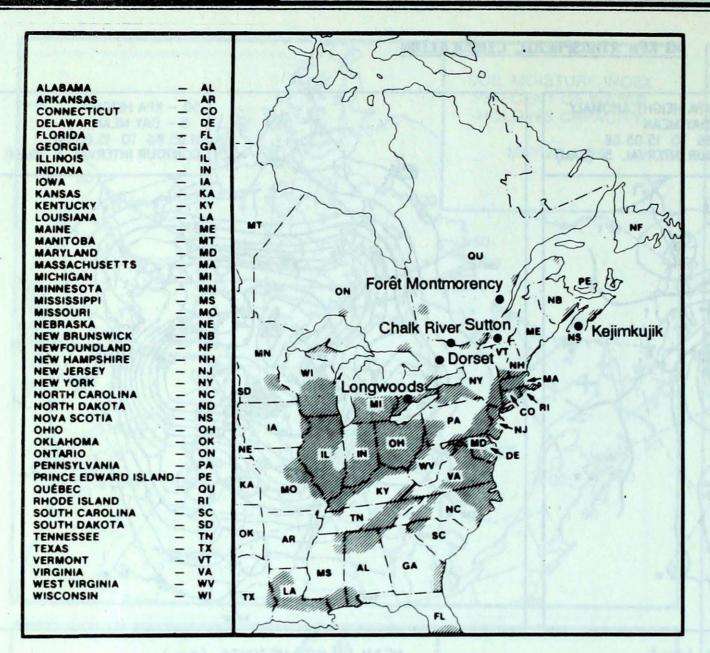
MEAN 50 KPa HEIGHT ANOMALY (dam) May 11 to May 15, 1986



MEAN 50 KPa HEIGHTS (dam) May 11 to May 15, 1986



ACID RAIN



ACID RAIN REPORT

The reference map (left) shows the locations of sampling sites where the acidity of precipitation is monitored All are operated by Environment Canada except Dorset which is a research station operated by the Ontario Ministry of the Environment. The map also shows the approximate areas (shaded) where 502 and NO_x emissions are greatest. The table below gives the weekly report summarizing the acidity (or pH) of the rain or snow that fell at the collection sites and a description of the path travelled by the moisture laden air. Environmental damage to lakes and streams is usually observed in sensitive areas regularly receiving precipitation with pH less than 4.7, while pH readings less than 4.0 are serious. For more information concerning the acid rain report, see Climatic Perspectives, Vol. 5 No. 50 p. 6.

SITE DAY pH AMOUNT AIR PATH TO SITE

Longwoods

Dorset

No DATA AVAILABLE THIS WEEK

Sutton

Kejimkujik

r = rain (mm), s = snow (cm), m = mixed rain and snow (mm).

STATION		TEMPERATURE PRECIP.			WIN	D MCX	STATION	TE	MPE	RATUE	SE	PRECIE	. WIN	WIND MX		
	AV	DP	MX	MN	TP	SOG	DIR	SPD		AV	DP	MX	MN	TP SO	GDIR	SP
RITISH COLUMBIA									THE PAS	8	*	23	-1	**	170	56
APE ST.JAMES	8P	-1P	11P	2P	35	0	140	74	THOMPSON	5	0	22	-3		060	46
RANBROOK	10	-1	24	0	6	0	270	74	WINNIPEG INT'L	11	0	23	-1	3	240	43
ORT NELSON	7	-3	20	-3	19	0	220	33	ONTARIO	Darker.						
ORT ST.JOHN	7	-3	18	-2	22	0	220	54	ATIKOKAN	10P	OP	21P	OP		220	41
AMLOOPS	11P	-3P	23P	1P	11	0	350	67	BIG TROUT LAKE	9P	*	22P	-3P		280	
ENTICTON	11	-2	26	-2	9	0	010	46	GORE BAY	13	3	22	5	34	050	
ORT HARDY	9	0	18	3	51	0	330	46	KAPUSKASING	14	5	26	-2	2	030	
RINCE GEORGE	8	*	18	-3	10	0	200	54	KENORA	11	0	21	2		230	37
RINCE RUPERT	8	0	12	0	91	0	150	59	KINGSTON	13P	1P	21P	9P	2P))
EVELSTOKE	10P	-2P	18P	1P	21	0	300	65	LONDON	16	3	24	9	39	250	48
MITHERS	7	-2	16	-4	9	0	180	31	MOOSONEE	12	6	27	-6	0	290	44
ANCOUVER INT'L	10P	-2P	15P	4P	36	0	280	48	NORTH BAY	14	3	24	4	42	160	3
ICTORIA INT'L	10P	-2P	15P	3P	24	0	280	41	OTTAWA INT'L	17	4	28	6	60))
ILLIAMS LAKE	6	*	19	-6	6	0		X	PETAWAWA	14	2	27	0	35))
UKON TERRITORY									PICKLE LAKE	12P	4P	23P	1P		270	5
AWSON	6	*	15	-2	13	0	060	41	RED LAKE	10P	IP	22P	1P		250	5
AYO	7	-1	13	-2	1	0		X	SUDBURY	14	3	23	2	33)	
HINGLE POINT A	-10P	-5P		-13P	22	64		*	THUNDER BAY	11P	2P	24P	2P		290	4
ATSON LAKE	5	-2	14	-3	3	0	270	50	TIMMINS	12	2	24	-2		160	3
HITEHORSE	4	-3	11	-3	2	0	190	56	TORONTO INT'L	15	2	26	4	53		4
ORTHWEST TERRITORI						4 17			TRENTON	15	3	25	6) 200	
LERT	-11	1	-5	-14	11	25	320	61	WIARTON	14P	3P	23P	3P			
AKER LAKE	-6	1	3	-13	ï	23	340	59	WINDSOR	17	2	27	7		140	7
AMBRIDGE BAY	-10	0	-1	-17	2	23	010	46	QUEBEC	. "	-	21		3,	, 110	
APE DYER	-4P	2P		-10P	13	150	290	67	BAGOTVILLE	15	5	29	0	13	280	3
YDE		-1P	-2P	-19	5	37	330	37	BLANC SABLON	6P	2	12P	-1P			,
								The same of the sa			*	DP D			340	
OPPERMINE OPAL HADROUR	-3P	*		-15P	2P	27	200	44	INUKJUAK	0	1	0	-6	2	340	
DRAL HARBOUR	-6	-	3	-15	3	15	200	X	KUUJJUAQ	4	3	16	-5		290	5
JREKA	-11	0	-6	-16	2	12	280	35	KUUJJUARAPIK	4P	2P	25P	-6P			
ORT SMITH	/	-1	22	-2	6	0		X	MANIWAKI	14	3	25	0		170	3
ROBISHER BAY	-2	1	5	-8	20	12	340	56	MONT JOLI	14	5	25	-2	AWAR	030	3
ALL BEACH	-8P	2P	1P	-20P	4	43	300	57	MONTREAL INT'L	17	3	30	6	The second second	040	4
UVIK		-7	1	-11	14	17		X	NATASHQUAN	10	5	22	1		270	3
OULD BAY	-11	1	-9	-15	2	32		X	QUEBEC	16	4	29	3		090	6
DRMAN WELLS		-3	14	-5	0	0		X	SCHEFFERVILLE	8	6	22	-6		220	4
SOLUTE	-11	0	-8	-14	3	37	010	48	SEPT-ILES	11	5	21	0		010	4
ACHS HARBOUR	-6	3	0	-12	5	11		X	SHERBROOKE	15	4	29	4		260	5
LLOWKNIFE	4	-2	18	-5	4	0	260	44	VAL D'OR	13	3	25	-1	25P (010	4
LBERTA								A Second	NEW BRUNSWICK							
ALGARY INT'L	6P -	-3P	20P	-3P	31	0	320	85	CHARLO	15	7	28	-1	16	080	3
OLD LAKE	9P .	-2P	25P	-2P	33	0	040	54	CHATHAM	15	5	29	-2	1 1	250	4
DRONATION	7P -	-4P	25	-3P	16	0	340	78	FREDERICTON	14	3	27	0	2P (030	4
OAMAN NOTROMO	10	-1	24	-2	12	0	020	63	MONCTON	14	4	28	-2	0 (5
ORT MCMURRAY	10	0	25	1	2	0		X	SAINT JOHN	11	2	21	1	1	030	5
GH LEVEL		-3P	21P	-4P	1	0	030	50	NOVA SCOTIA					The fact the	200	
SPER	8	-1	19	-3	2	ő	-50	X	GREENWOOD	13	2	30	-1	7 (060	6
THBRIDGE		-2P	21P	OP	16	0	260	96	SHEARWATER	10	1	18	2	11	2 2 2	4
EDICINE HAT	9	-3	26	-1	26	o	260	89	SYDNEY	13	5	27	0	13P		5
ACE RIVER	9	-1	22	-2	5	o	250	56	YARMOUTH	10	1	19	2		050	5
SKATCHEWAN	,		1	2	3	U	250	30	PRINCE EDWARD ISLAND		,	19	2	237	030	3
REE LAKE	4	-3	22	-6	5	0	040	59	CHARLOTTETOWN		E	26	0	0	040	1
STEVAN		-3P	22P	-1P	2	0	250	76	SUMMERSIDE	13 13P	5 4P	26 25 D	0 2P		040	5
RONGE		-3	23	-4	17	0	040	41	NEWFOUNDLAND	אנו	41	25P	22	UP (210	2
GINA		-3P	22P	-4 -1P	5		210	50		•	-	24	0	7 .	200	-
SKATOON		-3P				0		200	CARTWRIGHT	9	5	24	0	7 (5
VIFT CURRENT			21P	-1P	5	0	170	48	CHURCHILL FALLS	10	6	25	-3			4
ORKTON		-3P	19P	-1P	3P	0	120	X	GANDER INT'L	12	5	25	-3	6 (4
ANITOBA	8P -	-3P	21P	-2P	11P	0	120	63	GOOSE PASOUES	13	8	31	0	8 (5
			-			17 15			PORT-AUX-BASQUES	9	4	19	3	1 (6
RANDON	10	-1	21	0	0	0	290	74	ST JOHN'S	10	4	25	-1	0 (6
HURCHILL		2	16	-9	11	29 1	070	46	ST LAWRENCE	8	3	24	0	2 (
NN LAKE	OP .	-5P	11	-8P	17	0	160	44	WABUSH LAKE	11P	7P	24P	-1P	8 (270	3
V = weekly mean tem						Mar.	ET IF	St en	DIR = direction of maxim	um v	wind s	speed	(dec	from	rue no	orth
IX = weekly extreme m	naximu	m te	empe	ratun	e in d	degre	e C		SPD = maximum wind sp				-			
IN = weekly extreme m	ninimun	n te	mper	ature	in d	egree	e C	F 1		- Ceu	III NI	V 1100				
P = weekly total precip	oitation	in n	nm			27 150			X = not observed							
= departure of mean				rom	norm	nal in	degr	ee C	P = value based on less	than	7 do	lys				