Confirmed Tornado
Devlin, Ontario
July 14, 1994

Date- Local: Thursday, July 14th, 1994
UTC: Thursday, July 14th, 1994
Time- Local: 1445
UTC: 1945
Location: SW of Devlin
Region: Fort Frances - Rainy Lake
Classification: Confirmed Tornado
Category: G
Casualties: None
Track Length: 6000 m
Width: None available
Motion: None available
Damage Estimate: Non available
F-Scale Rating: F0
Code: TS
Damage Survey: None
Spotter Reports: One
Other Documents:
1994 Manitoba Environmental Service Centre Summer Severe Weather Report by Mark Geryland, documenting reported severe weather events for NW Ontario
Prairie database provided by Pat McCarthy also documenting the event
Map showing the approximate location of the tornado.

Tornado F-Scale Assessment

Brad L. Rousseau
Tornado Data Production Assistant, Environment Canada
August 30th, 2010

Classification: Confirmed Tornado
Date: Thursday, July 14th, 1994
Location: SW of Devlin, Fort Frances - Rainy Lake Region

Assessment: F0
F-Code: TS
Explanation of Assessment: Some minor tree damage, telephone poles bent over and minor roof damage. Watcher returned call - reported narrow path of damage (intermittent) - about 6 km long. Was closer to Devlin than earlier reported.

SJS

THE 1994 MANITOBA ENVIRONMENTAL SERVICE CENTRE

SUMMER SEVERE WEATHER REPORT

by

Mark Gerlyand

1. INTRODUCTION

Intense thunderstorm activity, like all weather elements in their extremes, pose a threat to life and property. Each summer, a national watch and warning program is initiated to alert the public where and when intense thunderstorm activity is expected. The main purpose of this report is to review and evaluate the 1994 summer severe weather season in order to improve the effectiveness of the Manitoba Environmental Service Centre (MENSC) forecast program. Included in this report is a chronological listing of all watches and warnings issued and all confirmed severe weather events in 1994. (See Appendices 1 and 2)

2. THE 1994 SUMMER SEVERE WEATHER PROGRAM

2.1 Program Overview

The MENSC operated a severe weather desk from May to September 1994. Watches and warnings were issued for Manitoba and Northwestern Ontario. In 1994 the Saskatchewan Environmental Service Centre (SENSC) took over the responsibilities for Saskatchewan. The program was on standby for the last half of April and through September and could be put into operation when required.

The Severe Weather Desk was staffed by a severe weather specialist daily, including weekends, between the hours of 1000 and 2040 CST. Mainly three individuals worked the desk this summer. On occasion, as dictated by weather conditions, staffing was extended into the evening/night. Due to shortage of staff no severe weather assistants were used during the summer.

Standard summer severe weather assessment techniques as developed by Miller (1972) were performed with 12Z surface and upper air data. Additional techniques developed since 1972 were also utilized. The forecaster would assess the potential for convection based on the synoptic conditions and issue prognostic charts indicating areas of severe convection valid for 12 hours later.

Due to operational requirements and poor performance during previous years the KASSPr system (Knowledge Augmented Severe Storms Predictor system) was not run at the MENSC as part of the 1994 Summer Severe Weather program.

Watches were issued on the basis of the potential for severe weather and/or actual development. Warnings were issued when severe weather was imminent or was occurring. When warnings were issued, the MENSC issued graphical warnings to weather offices of concern and a few selected radio stations. It was hoped that the graphical warning would be of more use in identifying the area effected by the thunderstorm.

Summer Severe Weather Events Log
Confirmed Severe Thunderstorm Events

Prov.	Date of Event	Time of Event (lcl)	Wtch out?	Wrng out?	Location	Comment
ON	06/14/94	1745	Y	N	13 km south of Nestor Falls.	Tornado/funnel cloud was not seen by Candy, but was reported to her and she in turn passed on the information to us. Damage path was 800 meters wide. Concrete power towers were damaged & hydro poles in Nestor Falls were snapped. 20 mm in diameter hail occurred lasting about 10 minutes. Strong wind. 15 mm or rain.
ON	06/14/94	1915	Y	Y	16 km north of Ranier (just east of International Falls)	Funnel cloud was observed from the International Falls Weather Office shortly after the tornado report was received. Both Matt Davis and Dean Packingham are meteorologists at International Falls.
ON	06/14/94	9999	Y	N	Nestor Falls and Caliper Lake.	Damage to cabin roofs, dock and power towers at Crawford's Resort at Nestor Falls area. Tornado was spotted 4 km east of Caliper Lake which is 8 km south of Nestor Falls. Lots of trees are broken and twisted. Aircraft is damaged and trees are broken in a 800 meters by 16 km strip from Gohere Bay on Lake of the Woods to Pipestone Lake. The storm knocked down four of the 23 meters twin pole structures.
ON	06/14/94	9999	N	N	30 km northwest of Kenora.	The time of the event was probably close to the time of the special report from the Kenora airport, ie. 2010Z. (1510 PM CDT). The report reported moderate showers and golf ball size hail.
ON	06/30/94	1604	N	N	Pikestone Point peninsula (49 kms south of Kenora).	Report from OPP officers about tornado causing fairly extensive damage to bush and some property in

Summer Severe Weather Events Log
Confirmed Severe Thunderstorm Events

Prov.	Date of Event	Time of Event (lcl)	Wtch out?	Wrng out?	Location	Comment
						Pikestone point peninsula. No details on shape or path of tornado. Weather office recieved later a video showing tornado moving across the Lake of the Woods. Observer at the Kenora Airport reported funnel cloud at 1617 CDT.
ON	06/30/94	1620	N	N	12-15 km southeast of Kenora.	Observer actually did not see tornado. Very loud noise (like passing train) with thunderstom and lots of damage to property. Guest cottage blown into the lake, 16 feet boat severly damaged, lots of trees down.
ON	06/30/94	1700	N	N	Kakagi Lake, Ont. (SSE of Kenora)	Possible tornado and a lot of damage in area. Downed trees and some building damage. A new cabin disappeared. Some hail was also reported.
ON	06/30/94	9999	N	N	Mather Island, On. (30 km south Kenora)	Report of a possible tornado. Caller wasn't home at the time of the event but the cabin was moved 3-4 meters and damaged the deck. Also many trees were destroyed in the vicinity.
ON	07/05/94	1650	Y	N	Fort Frances	Large marble size hail and very heavy rain.
ON	07/11/94	1800	N	N	5 km south of Osnaburgh House (south of Pickle Lake)	Tornado was observed over the lake St. Joseph which later moved across a cemetery. The cemetery sustained significant damage. Some granite tombstones were blown over. Lots of large trees broken. Tornado was between 200 to 500 metres across. After discussion with OPP officer our conclussion that this tornado could have been between F2 to F3 intensity.

Summer Severe Weather Events Log
Confirmed Severe Thunderstorm Events

Prov.	Date of Event	Time of Event (lcl)	Wtch out?	Wrng out?	Location	Comment
ON	07/14/94	1445	N	N	Less than 16 km south-southwest of Devlin.	Tornado touched the ground briefly - watcher saw debris but couldn't see it on the ground. Skinny funnel cloud. Brief funnel afterwards. Tornado should be cold core funnel type. Watcher returned call at 20:10 CDT - reported narrow path of damage (intermittent) - about 6 km long. Some minor tree damage, telephone poles bent over and minor roof damage. Was closer to Devlin than earlier reported. Trace of small hail, heavy rain for about 10-15 mins.
ON	07/30/94	1530	Y	N	Kenora.	Heavy rain with near zero visibilities causing local flooding and 20 mm in diameter hail were reported.
ON	07/30/94	1640	Y	N	Morson (southeast side of the Lake of the Woods).	Golfball sized hail was reported.
ON	08/27/94	1050	Y	Y	Devlin, Ontario.	Reported dark layer of cloud. Marble sized hail, a few large marble (20 mm in diameter). Covered the ground. Wind southwest 20 to 40 km/h. 1.7 mm of rain.
ON	08/27/94	1050	Y	Y	International Falls, Minnesota.	Weather report of hail as large as 1 inch (25 mm) in diameter.

Total number of reports confirmed as being severe weather events = 15

Confirmed Tornado events by Province

Prov.	Date of Tornado	Time of Tornado	Watch in Effect?	Warning in Effect?	Location	Comments
ON	06/14/94	1745	Y	N	13 km south of Nestor Falls.	Tornado/funnel cloud was not seen by Candy, but was reported to her and she in turn passed on the information to us. Damage path was 800 meters wide. Concrete power towers were damaged. 4 hydro poles in Nestor Falls were snapped. 20 mm in diameter hail occurred lasting about 10 minutes. Strong wind. 15 mm or rain.
ON		1915	Y	Y	16 km north of Ranier (just east of International Falls)	Funnel cloud was observed from the International Falls Weather Office shortly after the Tornado report was received. Both Matt Davis and Dean Packingham are meteorologists at International Falls.
ON		9999	Y	N	Nestor Falls and Caliper Lake.	Damage to cabin roofs, dock and power towersat Crawford's Resort at Nestor Falls area. Tornado was spotted 4 km east of Caliper Lake which is 8 km south of Nestor Falls. Lots of trees are broken and twisted. Aircraft is broken and trees are damaged in a 800 meters by 16 km strip from Gohere Bay on Lake of the Woods to Pipestone Lake. The storm knocked down four of the 23 meters twin-pole structures.
ON	06/30/94	1604	N	N	Pikestone point peninsula (19 km south of Kenora).	Report from OPP officers about tornado causing fairly extensive damage to bush and some property in Pikestone point peninsula. No details on shape or path of tornado. Weather office recieved later a video showing tornado

						moving across the lake of the Woods.
ON		1620	N	N	12-15 km southeast of Kenora.	Observer actually did not see tornado. Very laud noise (like passing train) with thunderstom and lots of damage to property. Guest cottage blown into the lake, 16 feet boat severly damaged, lots of trees down.
ON	06/30/94	1700	N	N	Kakagi Lake, Ont. (SSE of Kenora)	Possible tornado and a lot of damage in area. Downed trees and some building damage. Also new cabin disappeared. Will try and send us a few photos of the damage. Also reported some hail.
ON		9999	N	N	Mather Island, On. (30 km south Kenora)	Report of a possible tornado. Caller wasn't home at the time of the event but the cabin was moved 3-4 meters and damaged the deck. Also many trees were destroyed in the vicinity.
ON	07/11/94	1800	N	N	5 km south of Osnaburgh House (south of Pickle Lake)	Tornado was observed over the lake St. Joseph which later moved across a cemetery. The cemetery sustained significant damage. Some granit tombstones were blown over. Lots of large trees broken. Tornado were between 200 to 500 metres across.
ON	07/14/94	1445	N	N	less than 16 km south-southwest of Devlin.	Tornado.. cold core funnel type tornado. Touched ground briefly - watcher saw debris but couldn't see ground. Skinny funnel cloud. Brief funnel afterwards. Watcher returned call at 20:10 cdt - reported narrow path of damage (intermittent) - about 6 km long. Some minor tree damage, damaged telephone poles bent over, minor roof damage. Was closer to Devlin than earlier reported. Trace of small hail, heavy rain for about 10-15 mins.

TABLE 3D

1994 TORNADOES RATED BY F-SCALE

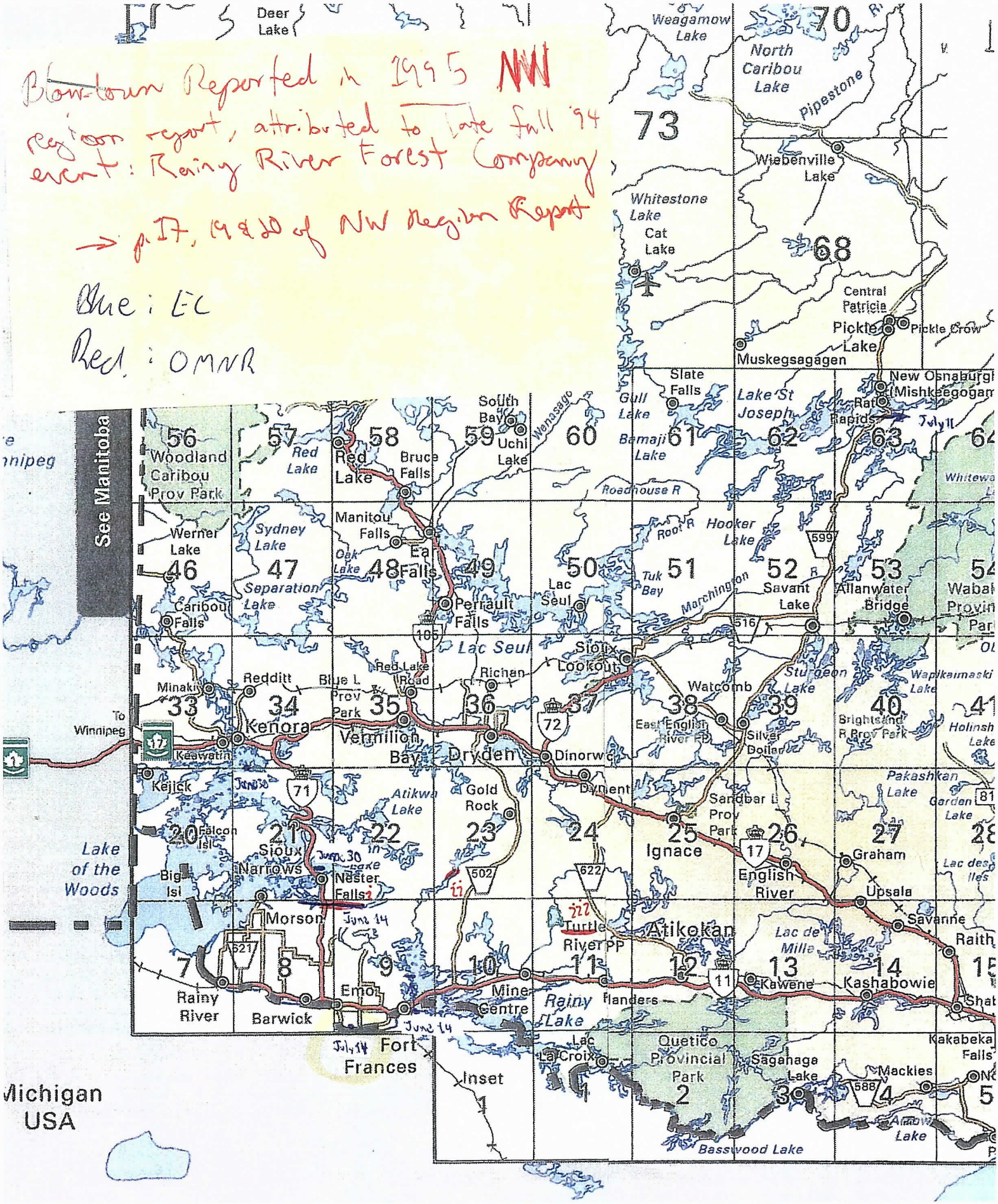
PROVINCE	DATE	TIME	LOCATION	STRENGTH
MAN	10/06/94	1620 CDT	1.5 km west of Neepawa	F0
MAN	10/07/94	1750 CDT	10 km south of Binscarth	F2*
MAN	10/07/94	1905 CDT	southeast of Birtle	F3
MAN	10/07/94	1935 CDT	Strathclair	F0
MAN	10/07/94	1940 CDT	southwest of Shoal Lake	F0
MAN	15/07/94	1510 CDT	10 km northwest of Dauphin	F0
MAN	12/08/94	2200 CDT	Gardenton area	F1
MAN	27/08/94	0300 CDT	southwest of Kilarney	F2
MAN	27/08/94	0800 CDT	Piney	F1*
NW ONT	14/06/94	1745 CDT	13 km South of Nestor Falls	F1
NW ONT	14/06/94	1915 CDT	16 km North of Rainer (east of International Falls.	F0
NW ONT	30/06/94	1604 CDT	Pikestone Point peninsula (Lake of the Woods)	F1
NW ONT	30/06/94	1700 CDT	Kakagi Lake	F1
NW ONT	11/07/94	1800 CDT	5 km south of Osnaburgh House (south of Pickle Lake)	F3
NW ONT	14/07/94	1445 CDT	16 km southwest of Devlin	F0

(* denotes likely intensity)

Prairie Database

1994	05	05	22:05	10 km N of Cynthia	AB	Tornado	53.37	-115.42			F0
1994	5	13	0:15	10 km NE of Saskatoon	SK	Tornado	52.19	-106.52	H	Funnel cloud just N Saskatoon arcing out of	F0
1994	6	5	19:50	15 km SE (4 km NE?) Saskato	SK	Tornado	52.04	-106.37	H	Observed by SENSC meteorologist and wat	F0
1994	6	5	19:30	5 km NE of Saskatoon	SK	Tornado	52.16	-106.56	H	Tornado picked up water. Observed by SEN	F0
1994	06	05	19:30	5 km NE of Saskatoon	SK	Tornado	52.16	-106.56			F0
1994	6	6	0:15	3 miles S Pipestone	MB	Tornado	49.52	-100.95	L	Report to Winnipeg weather office: tore sidir	X
1994	6	10	18:45	10 west Gretna	MB	Tornado	49.00	-97.91	M	Customs official reports funnel cloud lowere	X
1994	6	10	21:20	1.5 km W Neepawa	MB	Tornado	50.23	-99.48	H	Funnel cloud touched ground, moving S	F0
1994	6	13	20:30	6 miles N and 3 miles W of Cu	SK	Tornado	52.83	-109.13	M	Lasted 5-10 seconds. Could be same tornac	F0
1994	6	13	20:30	7 km W of Delmas	SK	Tornado	52.93	-108.69	H	Observed by SENSC meteorologist. Tornad	F0
1994	6	13	20:45	N of Delmas to Murray Lake	SK	Tornado	52.94	-108.54	H	Video taken. This is likely the same tornadc	F0
1994	**6**	**14**	**23:15**	**10 N Ranier, MN (in Ontario)**	**ON**	**Tornado**	**48.73**	**-93.38**	**H**	**Tornado on the ground, reported by US r**	**F0**
1994	**6**	**14**	**21:45**	**Nestor Falls to Caliper Lake**	**ON**	**Tornado**	**49.05**	**-93.86**	**H**	**Tornado spotted 8 km S and 4 km E Nest**	**F0**
1994	06	24	21:25	5 km S of Swift Current	SK	Tornado	50.24	-107.80		Touched down for 5 minutes.	F0
1994	06	26	22:10	10 km E of Gibbons	AB	Tornado	53.88	-113.24			F0
1994	6	29	23:30	Between Mortlach & Caron	SK	Tornado	50.46	-105.98	L	Tornado causing damage to farms & house:	F1
1994	6	29	21:47	Ernfold	SK	Tornado	50.47	-106.88	H	Tornado down for 5 min causing damage at	F1
1994	6	29	23:07	SW of Caronport	SK	Tornado	50.43	-105.92	H	Tornado & 2 funnels in Saskatchewan Envir	F0
1994	06	29	21:40	Sovereign (16 km SE of Roset	SK	Tornado	51.52	-107.72			F0
1994	6	30	0:00	10 km W of Avonlea	SK	Tornado	50.02	-105.17	L	Another report received of a funnel cloud NV	F0
1994	6	30	0:12	24 km SE of Moose Jaw (Brier	SK	Tornado	50.18	-105.31	H	In Saskatchewan Environmental Services C	F0
1994	06	30	0:40	Taber	AB	Tornado	49.78	-112.13			F0
1994	6	30	3:30	Grand Coulee	SK	Tornado	50.43	-104.85	L	Second-hand report of tornado between 21::	F0
1994	6	30	0:30	SE of Caronport	SK	Tornado	50.42	-105.83	M	Tornado reported second hand by radio stat	F0
1994	7	1	2:00	2 km E of Balcarres	SK	Tornado	50.80	-103.52	H	Newspaper reports that family watched funn	F0
1994	7	1	0:00	10 km W of Avonlea	SK	Tornado	50.02	-105.17		Tornado down for 19 min	F0
1994	7	1	0:12	24 km SE of Moose Jaw	SK	Tornado	50.40	-105.21			F0
1994	7	10	23:13	Balgonie	SK	Tornado	50.49	-104.30	L	Identification based on damage and visual a	F1
1994	7	10	22:50	10 km S, 1 km W Binscarth (F	MB	Tornado	50.52	-101.24	H	Tornado touched down and destroyed some	F1
1994	7	10	21:15	S of Esterhazy	SK	Tornado	50.63	-102.10	M	Seems to have been witnessed by farmer. T	F0
1994	07	10		Strathclair	MB	Tornado	50.40	-100.39			F0
1994	07	10		SW of Shoal Lake	MB	Tornado	50.43	-100.58			F0
1994	7	11	0:40	Shoal Lake	MB	Tornado	50.43	-100.58	L	Near Shoal Lake, up and down for 45 minut	x
1994	7	11	0:05	just SE Birtle	MB	Tornado	50.38	-100.94	H	Two farms take a direct hit. 1st farm torn pa	F4
1994	7	11	0:17	Decker to Strathclair	MB	Tornado	50.40	-100.39	H	Tornado observed by climate observer at St	F0
1994	**7**	**14**	**18:45**	**SSW Devlin**	**ON**	**Tornado**	**48.47**	**-93.75**	**H**	**Skinny funnel, cold core type, debris see**	**F0**
1994	7	15	20:10	4 km N and 5 km W Dauphin	MB	Tornado	51.20	-100.16	H	Various reports. Duration 1 min, 2-3 min, 3-:	F0

1994	7	19		4 miles S and 2 miles W Hazel	SK	Tornado	51.94	-103.04	L	From Saskatoon WO daily log. Quoting stor	F0
1994	8	13	3:00	Gardenton	MB	Tornado	49.08	-96.69	H	2 tornadoes moved through area, damage t	F0
1994	8	17	22:20	NW of Gull Lake	SK	Tornado	50.10	-108.48	M	In Saskatchewan Environmental Services C	F0
1994	08	18	1:00	NE part of Edmonton	AB	Tornado	53.55	-113.47			F0
1994	8	18	21:30	1.5 km W Rossman Lake	MB	Tornado	50.74	-100.69	H	started 1.5 km W Rossman Lake (NW YBR	F0
1994	8	27	7:00	Boissevain	MB	Tornado	49.16	-100.03	L	10 km E Highway 10, 10 km N US border, b	X
1994	08	27		SW of Killarney	MB	Tornado	49.18	-99.66		nocturnal tornado caused damage to numer	F1
1994	8	27	13:00	Piney	MB	Tornado	49.08	-95.98	H	A small and a large tornado sighted, large tr	F1
1994	8	29	20:20	3-5 miles N of Beaverlodge	AB	Tornado	55.26	-119.44			F0
1994	08	29	23:20	10 km E of Fort McLeod	AB	Tornado	49.72	-113.28			F0
1994	09	10	0:00	Trochu	AB	Tornado	51.83	-113.22			F0


Blow-down Reported in 1995 NW region report, attributed to late fall '94 event: Rainy River Forest Company
→ p. 17, 1995 of NW Region Report
Blue: EC
Red: OMNR
Deer Lake
Weagamow Lake
North Caribou Lake
Pipestone
70
73
Wiebenville Lake
Whitestone Lake
Cat Lake
68
Central Patricia
Pickle Lake
Pickle Crow
Muskegsagagen
Slate Falls
Gull Lake
Lake St Joseph
Rat Rapids
New Osnaburgh (Mishkeegogan)
Bamaji Lake
61
62
63
64
South Bay
Uchi Lake
Wenasaga
60
59
58
57
56
Woodland Caribou Prov Park
Red Lake
Bruce Falls
Roadhouse R
Whitewa
See Manitoba
Manitou Falls
Ea Falls
Root R
Hooker Lake
599
Werner Lake
Sydney Lake
Oak Lake
46
47
48
49
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52
53
54
Separation Lake
Caribou Falls
Perrault Falls
Lac Seul
Tuk Bay
Marchington
Savant Lake
Allanwater Bridge
Wabak Provin Par
105
516
Lac Seul
Sioux Lookout
Red Lake Road
Redditt
Blue L. Prov Park
Richan
Minaki
Watcomb
Sturgeon Lake
Wapikaimaski Lake
33
34
35
36
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38
39
40
41
To Winnipeg
17
Kenora
Vermilion Bay
Dryden
72
East English River PP
Silver Dollar
Brightsand R Prov Park
Holinsh Lake
Keewatin
Kejick
Dinorwic
Dyment
Pakashkan Lake
Garden Lake
71
Atikwa Lake
Gold Rock
Sandbar L. Prov Park
81
20
21
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28
Falcon Isl
Sioux Narrows
Ignace
Graham
Lake of the Woods
Big Isl
Nester Falls
502
622
English River
Upsala
Lac des Iles
Morson
June 14
Turtle River PP
Atikokan
Lac de Mille
Savanne
Raith
621
7
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15
Rainy River
Barwick
Emo
Mine Centre
Rainy Lake
Flanders
11
Kawene
Kashabowie
Shab
July 14
Fort Frances
Inset
1
Lac La Croix
Quetico Provincial Park
Sagahage Lake
Kakabeka Falls
Mackies
588
Michigan USA
Basswood Lake
Arrow Lake