07 98202 A ✓

TORNADO PROJECT SUMMARY SHEET

1. DATE AND TIME July 16, 1982 10:30 pm

2. LOCATION OR PATH
(attach map)
20 miles SW of Portage la Prairie, Man

3. PATH LENGTH ☐ NOT KNOWN ☐ <1 mi; ☐ 1-4mi; ☐ 5-10mi; ☐ 11-50mi; ☐ LENGTH IF>50mi

4. PATH WIDTH ☐ 5. TORNADO PART OF SQUALL LINE? ☐ YES; ☐ NO; ☐ UNKNOWN:

6. ANY UNUSUAL COLORATION? ☐ YES; ☐ NO; ☐ UNKNOWN

7. ANY UNUSUAL SOUND? ☐ YES; ☐ NO; ☐ UNKNOWN

8. IF ANSWER TO 6 OR 7 YES, ELABORATE;

9. LIST ANY ASSOCIATED PHENOMENA
(Such as hail, vivid lightning heavy rain, no rain, etc.)

10. TOTAL DAMAGE ESTIMATE $ 11. TOTAL DEATHS

12. TOTAL INJURED 13. TOTAL HOMELESS

14. LIST ALL REFERENCES

15. SUMMARIZE REMARKS PERTAINING TO (a) FUNNEL; (b) INTERESTING OR CAPRICIOUS EVENTS.

a) moved towards the S.E.

T.D 14526500
55 14800 645 R

JULY 16 1982
MAN

01290130WWCN1 CWWG 170129
SEVERE WEATHER WARNING NUMBER 41 ISSUED BY ENVIRONMENT CANADA
AT 8.00 PM CDT FRIDAY JULY 16 1982 FOR MANITOBA.

FOR IMMEDIATE BROADCAST.
ENVIRONMENT CANADA HAS ISSUED A TORNADO WARNING
FOR THE WESTERN HALF OF THE BRANDON REGION INCLUDING VIRDEN AND
BRANDON.

A TORNADO HAS BEEN REPORTED NEAR MELITA IN SOUTHWESTERN MANITOBA.

PERSONS IN AND NEAR THE AREAS SHOULD BE ON THE ALERT AND LISTEN FOR
UPDATED WARNINGS.
THIS WARNING IS IN EFFECT UNTIL 10.00PM CDT

END

ENTER HEADER NUMBER REQUIRED ? 19

03450347WWCN1 CWWG 170346
SEVERE WEATHER WARNING NUMBER 44 ISSUED BY ENVIRONMENT CANADA
AT 10.40 ?M CDT FRIDAY JULY 16 1982 FOR MANITOBA

FOR IMMEDIATE BROADCAST.
ENVIRONMENT CANADA HAS ISSUED A TORNADO WARNING
FOR THE AREA EXTENDING WITHIN 40 KILOMETRES OF PORTAGE LA
PRAIRIE BUT NOT INCLUDING WINNIPEG CITY.

A TORNADO HAS BEEN REPORTED NEAR PORTAGE LA PRAIRIE.

PERSONS IN AND ?EAR THE AREAS SHOULD BE ON THE ALERT AND LISTEN FOR
UPDATED WARNINGS.
THIS WARNING IS IN EFFECT UNTIL MIDNIGHT CDT

END

ENTER HEADER NUMBER REQUIRED ?

```
YPG SA 0000 E20 OVC 15 006/24/22/0507/955/SC10 8021 =
YPG SP 0053 E20 OVC 15T 3302 SC10 CB EMBDD LTG IC=
YPG SA 0100 E20 OVC 15T 001/24/22/0000/954/SC10 CB EBDD LTG IC =
YPG SP 0151 E20 OVC 12T+RW- 0410 CB10 T+ W HVYR SHWRS ALQDS=
YPG SA 0200 E20 OVC 12T+RW- 984/24/22/0409/948/CB10  T+ W HVYR SHWRS ALQDS =
YPG SP 0307 E18 OVC 1/2T+RW+A 2735G50 CB10=
YPG SP 0323 E18 OVC 2T+RW+ 3315G30 CB10  HVY HAIL RPTD IN TOWN TORNADO RPTD
    20 MI SW=
YPG SP 0333 E18 OVC 2T+RW+ 0000 CB10 TORNADO SW MOVG NE=
YPG SP 0345 E18 OVC 10T+RW- 3612 CB10  TORNADO SW MOVG NE LTGICCCCG?ALQDS=
YPG SP 0405 10 SCT E18 OVC 15TRW- 1809 CF1CB9 LGICCCCG T+ E=
YPG SP 0421 10 SCT E18 OVC 15T 1807 CF1CB9 LTGICCCCG E=
YPG SP 0425 10 SCT E18 OVC 15 2108 CF1SC9 CB EMBDD LTGICCCCG E=
YPG SA 0500 10 SCT E18 OVC 15 973/17/16/2313/946/CF1SC9  CB EMBDD LTGICCC
    /R25/ =
YPG SA 0600 E24 OVC 15 005/18/16/2315G21/955/SC10  CB EMBDD /R35/ PRESRR
    LTGICCC 3030 =
YPG SP 0602 E15 OVC 5TRW+ 3205 CB10 PRESFR LTGICCCCG=
YPG SP 0640 15 SCT E20 OVC 15 2106 CB2SC8 OCNL LTGICCG SE-E=
YPG SA 0700 E20 OVC 15 979/17/15/2315/947/SC10  CB EMBDD OCNL LTGIC SE =
YPG SA 0800 E20 BKN 15 970/16/13/2417/944/SC7 =
YPG SA 0900 E16 BKN 15 970/15/12/2517G22/945/SC8 5034 =
  ***  1 HOUR  MISSING ***
YPG SA 1100 16 SCT 15 969/14/10/2414/944 =
YPG SA 1200 16 SCT 260 SCT 15 956/13/10/2218G22/940/SC1CI1 8015  =
YPG SA 1300 E16 BKN 15 946/15/11/2320G28/937/SC6 =

 GROUP OR STN?
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Canadian Press Clipping Services
481 UNIVERSITY AVE.
TORONTO, M5W 1A7

TORNADO/MAN

STORM DATE TAUR JULY 15, 1982

CANADIAN PRESS CLIPPING SERVICES

7-1492

Storm damage to area crops undetermined

Heavy wind, thunder showers and hail swept through Portage la Prairie and area late last night causing minor crop damage in some areas.

Canadian Forces Base Portage la Prairie weather office reports 59.4 ml of precipitation, which includes about 15 minutes of hail, fell during a 24-hour period ending at 7 a.m.

The base weather office also received a report of a tornado sighting 20 miles southwest of here, but no other reports of the tornado sighting have been received.

Agricultural representative Gerry Orr said the amount of hail that fell in the city wouldn't cause serious damage to crops but the heavy winds and rain may have compounded the problems caused by Thursday night's storm that toppled trees in some areas.

Orr said access to some fields is difficult and he doesn't know how much additional damage was caused by the storm.

Ray Lusk, who lives on Provincial Road 331, one and one-half miles east of the base, said he farms about five acres of land and it suffered quite a bit of damage from wind and hail.

Lusk said the size of the hail wasn't large, but it lasted a "good hour."

Clarke Munro, a farmer who lives three and one-half miles west of Portage la Prairie said he received about five minutes of light hail, but "not enough to make much damage."

"We got more damage from the storm the night before," said Munro.

Don McKenzie, owner of a farm eight miles west of Portage la Prairie, said there was light hail for about 15 minutes, but damage to his crops came the night before when high winds and a little twister swept through the area.

Traffic on the Trans-Canada Highway in the area was slowed because of the storm as some cars pulled over to the side.

Twenty-four hours earlier lightning and high winds in the Bagot area left residents without electricity for a short period.

Manitoba Hydro spokesman Bill Laird said at least 12 hydro poles were downed by lightning and high winds and the power shortages were not confined to any particular area but were scattered throughout the region.

Residents in and around Bagot were kept busy Friday cleaning up scattered trees and branches and repairing minor damage to their homes.

HAIL + TORNADO, MAN

STORM DATE: JULY 16, 1982

Canadian Press Clipping Services
481 UNIVERSITY AVE.
TORONTO, M5W 1A7

The Daily Graphic
Portage La Prairie, Man.
Circ. 4,563

CANADIAN PRESS CLIPPING SERVICES

July 17, 1982

Z-1492

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Canadian Press Clipping Services
481 UNIVERSITY AVE
TORONTO, M5W 1A7
Winnipeg Free Press, Man.
Circ. 187,522
July 19, 1982
CANADIAN PRESS CLIPPING SERVICES

1492



'It was the worst noise I ever heard from a wind,' said Brian Hyde as he cut up one of 20 trees felled in his yard.

STORM DATE FRI JULY 16, 1982 MAN

~~SASK~~ / MAN

STORM DATE: ~~JULY 15 TO JULY 17.~~ July 16

CLIMATIC PERSPECTIVES, AES. JULY 23, 1982
VOL 4 NO 28.

PRAIRIE PROVINCES

Extremely unsettled weather dominated the weather pattern across the Prairies. Severe thunderstorms, spawning tornadoes and funnel clouds characterized the week.

Violent weather prevailed in southern Manitoba and southern Saskatchewan between july 15 to July 17. Golf ball size hail, gusty winds and heavy downpour were reported in southwestern Manitoba, area south of Brandon reported base ball size hail on July 16. Brandon received over 100 mm of rain. In addition a few tornadoes in southwestern Manitoba damaged mobile homes, barns and uprooted large trees. Severe thunderstorms reactived in southeastern Saskatchewan on July 17 dumping 100 to 150 mm of rain. There were several reports of flooding in the area.

Canadian Press Clipping Services
481 UNIVERSITY AVE
TORONTO, M5W 1A7

Brandon Sun, Man.
Circ. 19,007
July 17, 1982

CANADIAN PRESS CLIPPING SERVICES

Z-1492

Storm cell unloads wrath

For the second day in a row a type of storm cell not often seen in the region unloaded its wrath on parts of Western Manitoba and Brandon Friday.

A tornado ripped the roof off a barn and uprooted corral fencing eight kilometres north of Melita Friday night.

RCMP reported that the roof was left strewn in the barnyard and on the shoulder of Highway 83 after the tornado hit. No one was injured. The barn belonged G.C. Swanson.

The Portage weather office also reported a tornado moving south east approximately 32 kilometres southwest of the town at approximately 10:30 p.m.

A thunderstorm packing high winds ripped through the MacGregor-Bagot area Friday, leaving some crops flattened and toppling hydro lines and trees.

Agricultural representative Gerry Orr said it may take a week to assess the damage.

He said the hardest hit area was Bagot where crops look as though they had been "run over by a steamroller."

While crops that weren't too far advanced should recover, he said he wasn't optimistic about fall rye surviving.

Bev Hyde, who lives at a farm in the area, said the winds toppled 15 trees in a matter of two minutes.

Some of the huge trees were 100 years old. She said they were "going down like match sticks."

Brandon firefighters say they were kept busy with calls from people whose basements had flooded during the storm. They said one of the worst hit was a house on 8th St. where the water filled the basement.

"We pumped out three places altogether," a spokesman said. "For the less serious flooding we're telling people how they could take care of the Problem."

He also said some of the worst flooding was near 34th St. and Park Ave. Firefighters passing through that area from another call saw two children playing in a foot of water. RCMP also report that the Kemnay underpass was also flooded.

City police report the only problems were with removing stalled cars.

Approximately 38.1 mm of rain fell within a 90-minute period in Brandon Friday night. About 39 mm. had fallen earlier in the day and late Thursday night.

Weather officials say that storm clouds were measured as high as 50,000 feet. Standard height for storm clouds range anywhere from 30,000 to 40,000 feet.

"At that height your getting into pretty rough weather," a spokesman said. "Storm cells like the ones we had Friday are fairly common in Florida but not around this area."

Storm DATE : FRI JULY 16, 1982

MAN

TORNADO / MAN
PORTAGE JULY 16, 1982

Environment Canada / Environnement Canada
Atmospheric Environment Service / Service de l'environnement atmosphérique

SURFACE WEATHER RECORD

AT PORTAGE LA PRAIRIE A (YPG) (STATION NAME AS IN METSTAT) PROVINCE MANITOBA FROM 0601 (HOUR (GMT)) 16 (DAY) JUL (MONTH)

CHECKED, CERTIFIED COMPLETE AND 69 CORRECT BY Brian S Brown

I OBSERVED DATA AND COMPUTATIONS

1 NOTES AND INSTRUMENT DEFECTS AND CHANGES

DADS -2 TO -1 1700
DADS -1 TO -2 2200
HAIL REPORTED 3/4 BY 1 CM IN TOWN OF PORTAGE LA PRAIRIE 0310 0320
TORNADO SW MOVING NE 0333-0355
DADS -2 TO -1 0100
DADS -1 TO -2 0200
DADS -2 TO -1 0400

Duration of Weather and/or Obstruction to Vision

(GMT) Type 2	Bgn 3	End 4	Type 2	Bgn 3	End 4 (GMT)
RW--	0625	0645	T	1324	1345
RW-	0825	0843	RW-	1915	1925 1935
RW--	1014	1025	T	0053	0151
RW	1130	1136	RW-	0125	0302 2105
T	1029	1115	T+	0151	0405
RW-	1136	1150	RW+	0307	0343
RW	1150	1159	A	0307	0318
RW+	1159	1220	RW-	0343	0406
T	1205	1336	T	0405	0410

II HOURLY OBSERVATIONS

23 Corrected Wet-Bulb °C	24 Relative Humidity %	25 Total Opacity	26 Total Amount	27 Type	28 Date (GMT)	29 Hour (GMT)	30 Sky Condition	31 Visibility (Mi)	32 Weather and Obstructions to Vision	064 Sea-level Pressure (mb) 33	Temperature °C (TENTHS) 34 Dry-Bulb	35 Dew-Point	WIND 36 Direction	37 Speed (kt)	38 Character	AT 06Z 973 39 Altimeter Setting (In)	
	37	5	7	SA	16	0700	60 SCT 250 BKN	15		058	23.0	20.9	14	10		971	C
	38	6	8	SA	16	0800	60 SCT E100 BKN	15		058	22.4	20.3	15	09		971	C
		8	10	SP	16	0825	60 SCT E100 ~~BKN~~ OVC	15	RW-				13	08			C
		9	10	SP	16	0843	35 SCT E100 OVC	15					14	07			C
	88	10	10	SA	16	0900	35 SCT 60 SCT E100 OVC	15		055	21.6	20.2	13	06		970	SC
	74	8	8	SA	16	1000	30 SCT 60 SCT E100 BKN	15		052	20.2	19.0	13	05		970	S
		8	8	SP	16	1029	60 SCT E80 BKN 100 BKN	15	T				36	06			C
	94	8	9	SA	16	1100	12 SCT 40 SCT E80 BKN 250 BKN	15	T	051	20.1	18.8	06	04		969	SC
		10	10	SP	16	1130	E 8 OVC	3	RW				27	20	G25		C
	94	10	10	SA	16	1200	E 8 OVC	3	RW+	069	17.8	16.6	34	17		974	C
		10	10	SP	16	1205	E 8 OVC	2½	TRW+				36	15			C
		10	10	SP	16	1211	E 8 OVC	½	TRW+				34	13			C
		9	9	SP	16	1220	E 10 BKN 15 BKN	8	TRW				34	02			S
		1	9	SP	16	1241	2 SCT E10 BKN	8	TRW				06	09			
		9	9	C ~~SP~~	16	1248	2 SCT E10 BKN	8	TRW-				07	05			
	94	9	9	SA	16	1300	2 SCT E10 BKN	8	TRW-	051	17.6	17.1	06	08		969	
		9	9	C ~~SP~~	16	1306	2 SCT E10 BKN	8	TRW				08	10			SF
		7	8	SP	16	1321	3 SCT 12 SCT E100 BKN 260 BKN	10	RW-				07	06			
		7	8	SP	16	1324	3 SCT 12 SCT E100 BKN 260 BKN	10	TRW-				06	05			
	94	7	*	RS	16	1400	3 SCT 12 SCT E100 BKN 260 BKN	12		039	19.6	17.5	12	10		965	
	88	9	10	SA	16	1500	3 SCT E40 BKN 100 BKN 260 OVC	15		044	19.6	18.4	14	05		966	
		10	10	SP	16	1545	B10 BKN 40 OVC	15					32	10			SF
	88	10	10	SA	16	1600	B10 BKN 40 OVC	15		054	20.8	18.7	34	04		969	
		10	10	SP	16	1647	10 SCT E40 OVC	15					06	07			S
33	10	10	SA	16	1700	10 SCT E40 ~~BKN~~ BKN 100 OVC	15		047	22.4	19.2	08	06		967	S
78	9	9	SA	16	1800	10 SCT E40 BKN 100 BKN	15		036	23.6	20.1	12	12		965		
	9	9	SP	16	1917	10 SCT B14 BKN 100 BKN	15					12	11			SF	
78	10	10	SA	16	1900	10 SCT E14 BKN 100 OVC	15		030	24.2	20.3	13	09		963	SF	
							10 SCT E12 BKN 90 OVC	15	RW-				13	10			

D AT PORTAGE LA PRAIRIE A (YPG) PROVINCE MANITOBA FROM 0001 17 JUL 1982 TO 0600 17 JUL 1982 LST = GMT − 6 HOURS

STATION NAME AS IN METSTAT — HOUR (GMT) DAY MONTH — HOUR (GMT) DAY MONTH

NS Hour (GMT) 29	Sky Condition 30	Visibility (Mi) 31	Weather and Obstructions to Vision 32	006 Sea-level Pressure (mb) 33	Temperature °C (TENTHS) Dry-Bulb 34	Dew-Point 35	WIND Direction 36	Speed (kt) 37	Character 38	AT 06Z 955 Altimeter Setting (In.) 39	CLOUDS and/or OBSCURING PHENOMENA Type/Opacity 40	REMARKS 41	(STN. PRES)	Tendency appp 42	TT_dOA 42a	OBSERVER (Print) 43
0053	E 20 OVC	15	T -				33	07			SC 10	CB EMBDD LTG IC (31.6)	690			SG
0100	E 20 OVC	15	T	001	24.0	21.8	00	00		954	SC 10	CB EMBDD LTG I C	695		08XX	SG
0124	E 20 OVC	15	TRW-				04	04			CB 10					SG
0151	E 20 OVC	1½ +5	T+RW-				04	10			CB 10	T + W HVYR SHWRS ALQDS				SG
0200	E 20 OVC	12	T+ RW-	984	23.6	21.9	04	09		948	CB 10	T + W HVYR SHWRS ALQDS	668		69XX	SG
0300	E 18 OVC	12	T+RW-	973	22.9	21.8	03	08		946	CB 10	PRESER LTGICCCCG ALQDS T+ OVHD MOVG NE (31.4)	659	2031	98XX	SG
0307	E 18 OVC	½	T+RW+A				27	35	G50		CB 10					BS
0323	E 18 OVC	2	T+RW+				33	15	G36		CB 10	TORNADO RPTD 20 MI SW HVY HAIL RPTD IN TOWN				BS
0333	E 18 OVC	2	T+RW+				00	00	C		CB 10	TORNADO SW MOVG NE				BS
0345	E 18 OVC	10	T+RW-				36	12			CB 10	TORNADO SW MOVG NE LTGICCCCG ALQDS				SG
~~0400~~	~~E 18 OVC~~	~~15~~	~~T+RW-~~								~~CF 1 CB 9~~					
0355	E 18 OVC	15	T+RW-				16	07			CF 1 CB 9	TORNADO OUT OF SIGHT				SG
0400	10 SCT E 18 OVC	15	T+RW-	984	17.5	16.3	16	08		949	CF 1 CB 9	LTGICCCCG T+ E	670		53XX	SG
0405	10 SCT E 18 OVC	15	TRW-				18	09			CF 1 CB 9	LTGICCCCG T+ E				SG
0421	10 SCT E 18 OVC	15	T				18	07			CF 1 CB 9	LTGICCCCG T+ E				BS
0425	10 SCT E 18 OVC	15					21	08			CF 1 SC 9	CB EMBDD LTGICCCCG E				BS
0500	10 SCT E 18 OVC	15		973	17.2	16.2	23	13		946	CF 1 SC 9	CB EMBDD LTGICCC /R35/	657		22XX	RS
0600	E 24 OVC	15		005	18.4	16.3	23	15	621	955	SC 10	CB EMBDD PRESRR LTGICCC /R35/ (31.6)	689	3030	43XX	RS

BRANDON, MANITOBA
16 JULY 1982.

(GMT)	Duration of Weather and/or Obstruction to Vision				
Type 2	Bgn 3	End 4	Type 2	Bgn 3	End 4
Rw-	0745	0828	RW--	0234	0240
T	0755	1145	RW--	0455	0535
Rw+	0828	0850	T	0455	0550
Rw-	0850	0900	H	0032	0117
Rw	0900	0948	A	0120	0127
Rw-	0948	1235			
T	1235	1355			
Rw-	1357	1431			
T	0022	0234			
Rw--	0022	0032			
Rw-	0032	0117			
Rw+	0117	0214			
Rw-	0214	0234			

HOUR (GMT)	Corrected Maximum TENTHS 5	$T_xT_xT_x$ 6	Corrected Minimum TENTHS 7	$T_nT_nT_n$ 8
12	21.0	(24)28.9	17.8	12 17.8
18	22.2	12 22.2	18.1	24 17.8
00	25.1	12 25.1	21.6	18 17.8
06	24.8	24 25.1	15.2	24 15.2
24-HR	25.1		15.2	

| | | | |