A

F=2

TORNADO PROJECT SUMMARY SHEET

1. DATE AND TIME June 24 1972 Saturday 1655 ESTPM

2. LOCATION OR PATH (attach map) Montreal

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

4. PATH WIDTH 30 5. TORNADO PART OF SQUALL LINE? ☐ YES; ☐ NO; ☐ UNKNOWN:

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

7. ANY UNUSUAL SOUND? ☐ YES; ☐ NO; ☐ UNKNOWN "a sound like powerful jet engines"

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 $ 1,000,000 11. TOTAL DEATHS 2

12. TOTAL INJURED 9 13. TOTAL HOMELESS 5

14. LIST ALL REFERENCES
Le Nouvelliste: Monday June 26 1972
Progres-Dimanche: June 25 1972

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

a) No Remarks

b) tornadoes hit after heavy rain have started

6 houses are considered total loss

14 others has been badly damaged garage, tree, trailers demonished

50 cars have been pilled up like toys.

an witness said than his house has been lifted in the air and after debris covered in the road.

Que

Le Novelliste: Monday June 26 72

Storm Date: Sat June 24 72

Tornade à Maniwaki: deux morts

par Elie LALANCETTE

MANIWAKI (PC) — Une tornade soudaine a causé la mort de deux personnes, en a blessé neuf autres, détruit une dizaine de maisons et causé pour environ $1 million de dommages à la ville de Maniwaki, peu avant six heures samedi soir.

Les deux personnes qui ont péri sont Mme Jacques Lacroix, 38 ans et son fils Roger, 19 ans, dont la maison mobile a été transportée à quelque 200 pieds de sa base avant de s'écrouler sur une autre maison mobile.

Deux autres personnes sont présentement traitées à l'hôpital général d'Ottawa, et leur état est sérieux. Ce sont Hélène Boutin, 7 ans et Yves Lacroix, 9 ans. Six autres sont hospitalisées à l'hôpital St-Joseph de Maniwaki.

Maniwaki est située à environ 90 milles d'Ottawa. Selon le maire, M. L.P. Larocque, jamais un tel désastre n'a frappé si durement cette municipalité d'environ 8,000 personnes.

Précédée de pluies torrentielles, la tornade s'est abattue sans avertissement. Sur son chemin d'environ 200 pieds de large, elle a emporté les maisons, un toit de garage en béton et empilé plus d'une cinquantaine de voitures les unes sur les autres comme des jouets d'enfants. La longueur des dégâts serait d'environ 5 milles.

Une vingtaine d'autres maisons ont eu leur toit arraché, et, plusieurs centaines d'arbres ont été littéralement "écrasés" comme du foin.

Toutes les communications électriques et téléphoniques ont été rompues sur le champ, et n'ont été remises en état de fonctionner que quelques heures plus tard.

Une vingtaine d'employés de l'Hydro-Québec ont dû mettre fin à leur grève pour rétablir le courant.

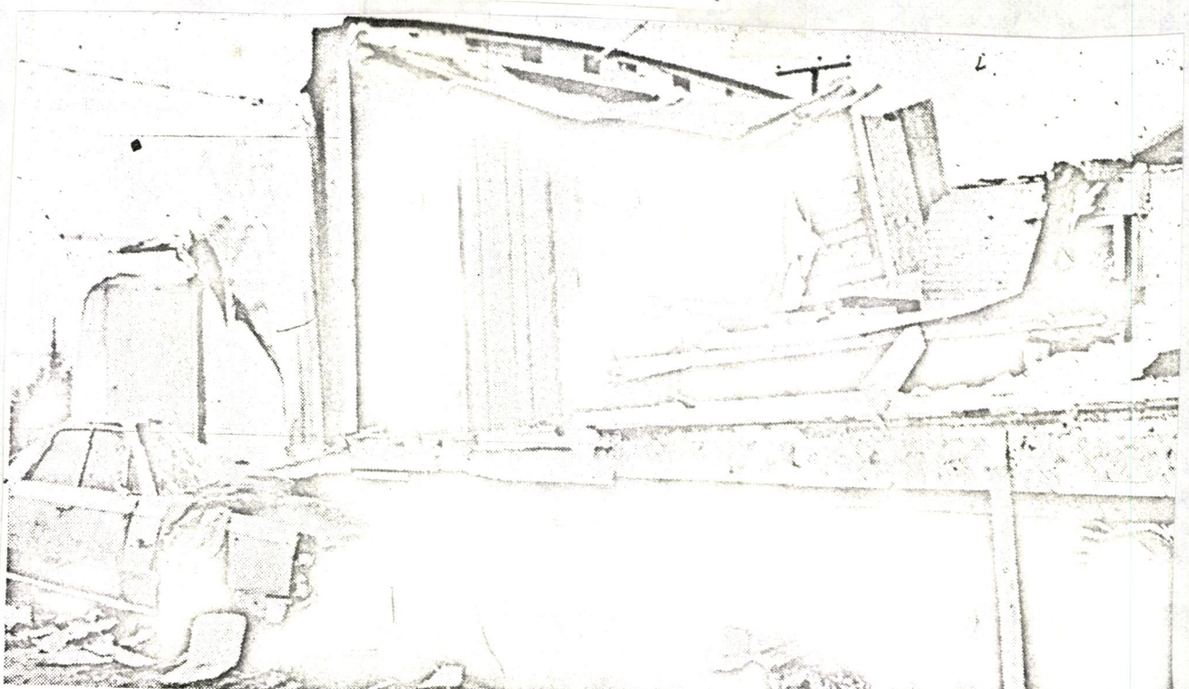
Toutes les communications téléphoniques du Nord-Ouest québecois ont également été rompues et ne seraient rétablies que dans quelques jours à cause de l'étendue des dégâts.

Trailer 200 ft from its base

tornado after heavy rain start

50 cars piled

20 houses badly damaged



Voici ce qui reste de la maison mobile où deux personnes ont trouvé la mort à Maniwaki samedi. La tornade qui a dévasté cette ville a projeté la maison mobile à 200 pieds de son emplacement. (Téléphoto PC)

Tornado Que

Progres-Dimanche: June 25 72

Storm Date: Sat June 24 '72

Violente tornade

MANIWAKI — D'après la police, le vent violent du genre tornade qui s'est abattu sur un secteur de Maniwaki hier soir a fait un mort, trois blessés graves et huit blessés légers. La police a ajouté que cinq maisons ont été pratiquement démolies, tandis que les toits de sept autres ont été emportés. D'autre part, un garage aurait subi des dommages évalués à $100,000.

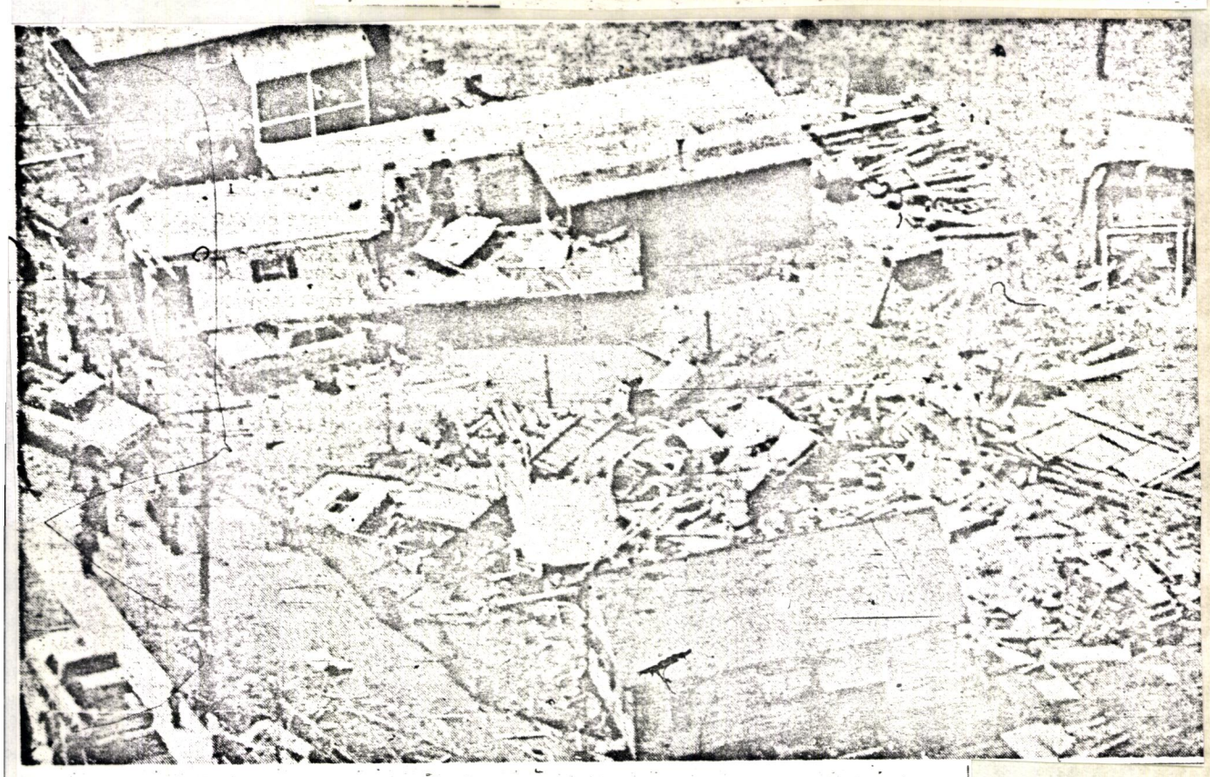
De l'équipement de secours et des agents de la Sûreté du Québec ont été dépêchés sur les lieux. La Compagnie Bell a rapporté que les lignes téléphoniques étaient en panne dans le secteur de Maniwaki, située dans le comté de Gatineau.

Tornade dévastatrice à Maniwaki:

2 morts; $1 million de dégâts

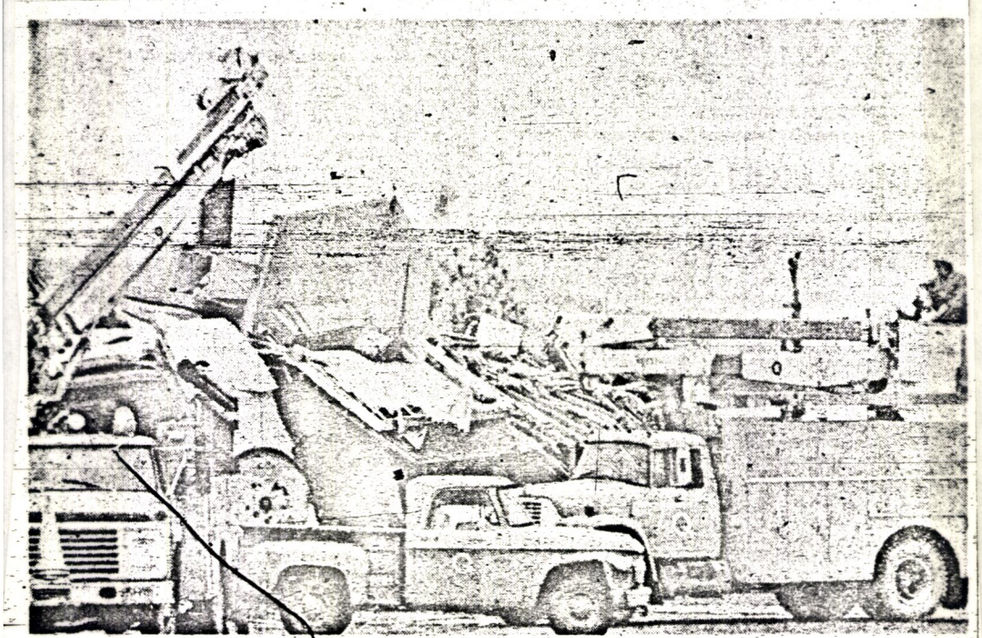
Le Soleil
Tuesday June 27
1972

Storm Date
Sat June 24
'72



$1 million de dégâts

Ci-dessus, une vue partielle des dégâts causés, samedi dernier, à Maniwaki, par l'ouragan qui a pratiqué une tranchée de 200 pieds sur une distance de quatre milles aux abords est de la localité. Deux personnes ont perdu la vie alors que la roulotte dans laquelle elles se trouvaient et qui apparait en haut, à gauche de la photo, a été traînée sur une longueur de 300 pieds. (Téléphoto PC)



Equipes d'urgence

Des équipes d'urgence de l'Hydro-Québec ont été dépêchées sur les lieux du désastre à Maniwaki. Dès dimanche après-midi, on avait remplacé des pylônes et installé de nouveaux câbles afin de redonner le service interrompu par le passage de l'ouragan en fin d'après-midi, samedi. (Téléphoto PC)



Aide gouvernementale

Le solliciteur général du Québec, M. Roy Fournier, à gauche, s'est rendu sur les lieux du désastre qui a frappé la localité de Maniwaki, samedi dernier. M. Fournier a parcouru l'aire dévastée en compagnie de M. Louis-Pierre Larocque, maire de l'endroit. Le solliciteur général a promis aux citoyens éprouvés l'aide du gouvernement du Québec. (Téléphoto PC)

C'est la première fois de ma vie que je vois un tel spectacle et je ne veux plus le revoir (M. A. Thibault)

"C'était incroyable... Toute la maison a été soulevée dans les airs et est retombée sur la route comme une boîte de bois."

C'est en ces termes qu'un citoyen de Maniwaki, M. Allan Heafey, a exprimé sa stupéfaction à la suite de l'ouragan qui a frappé, en fin d'après-midi, samedi, la localité située à quelque 90 milles au nord d'Ottawa.

Pour sa part, le chef de police, M. Achille Thibault, a déclaré: "C'était une journée normale, avec de la pluie et soudain des vents violents se sont élevés. C'est la première fois de ma vie que je vois un tel spectacle et je ne veux plus le revoir."

Un autre citoyen, M. André Boutin, ne s'est rendu compte que sa maison avait disparu que dimanche, en rentrant de voyage. "Ma maison est partie" s'est-il écrié. Il ne savait pas que la demeure occupée par quatre personnes, avait été littéralement soulevée et transportée par la tornade sur le toit d'une maison voisine. Deux des enfants de M. Boutin ont été hospitalisés. M. Boutin lui-même se remet d'un violent choc.

Selon le maire de Maniwaki, M. L.-P. Larocque, jamais désastre n'a frappé aussi durement cette localité d'environ 8,000 citoyens.

THE TORONTO STAR. MON JUNE 26 1972.

STORM DATE!



CP photo

NEW CARS ARE PILED in a ditch in front of a dealer's lot in Maniwaki, Que., after a tornado whipped through Saturday killing two pearsons, and tearing houses from foundations, causing damage estimated at more than $1 million.

ASSOCIATED WITH HURRICANE AGNES WHICH LEFT 47 DEAD AND 25,000 HOMELESS IN PENN, N.Y., VIRGINIA AND MARYLAND.

Quebec tornado kills mother, son as house trailer carried 250 feet

Special to The Star

MANIWAKI, Que. — A mother and son were killed Saturday when a tornado whirled their 50-foot mobile home through the air like a feather and smashed it against another trailer 250 feet away.

Eleven others were hurt as the twister carved a trail of destruction 200 feet wide through this town of 9,000 about 70 miles north-east of Ottawa.

It wrecked 20 houses and shops, and Quebec Solicitor-General Roy Fournier estimated damage to the town and four miles of countryside at more than $1 million.

Police said many townspeople owe their lives to the fact they were attending mass on St. Jean Baptiste Day, honoring Quebec's patron saint.

Jeannine Lacroix and her children had no warning or time to escape before their big trailer was sucked up by the funnel.

"It seemed to float about 15 or 20 feet above the ground," said Gendeon Trinque, who watched in horror from across the street. "It sailed under the hydro wires and smashed Leonard Cote's trailer to bits."

Mrs. Lacroix, 38, apparently was electrocuted by a fallen wire. Her body was found in a ditch 15 feet from her wrecked trailer. The body of her 19-year-old son, Roger was discovered by a school friend in a pile of rubble 55 feet away.

Two other Lacroix children were badly hurt. Yves, 9, is in hospital with abdominal injuries. Michele, 13, suffered multiple fractures.

Helen Boutin, 7, was also taken to hospital with multiple fractures after her home was lifted off its foundations and dropped on a neighbor's house.

The others in hospital were reported less seriously injured.

The tornado struck at 5.53 p.m. From the Gatineau River on the east side of town it swept in a straight line for about four miles, hurling aside everything in its path, before swinging northwest and disappearing.

MANIWAKI, QUE, 2·5 miles long,
width 50 to 150 feet.

24·6·1972, 5·55 EDT

3 to 5 minutes

MANIWAKI GAZETTE 29·6·1972, 'A REPORT ON THE MANIWAKI TORNADO' D SOUCY & J, RING (UNPUBLISHED) SEPT 4TH 72
2 DEATHS. CONSIDERABLE DAMAGE

SOUND LIKE JET ENGINES,
ASSOCIATED WITH HURRICANE AGNES

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STAR JUN 26 1972

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Two die in Quebec tornado

JUN 26 1972

Homes fly through air

MANIWAKI, Que. (CP) — A tornado ripped through this community 70 miles north of Ottawa Saturday night, tearing houses from their foundations and killing at least two persons. Eleven others were injured.

Damage has been estimated at more than $1 million.

The Ottawa weather office said the tornado, which tore down hydro lines and hurled cars around like pieces of paper, did not appear to be connected with tropical storm Agnes which has caused widespread damage in the eastern United States.

"It was a very strange occurrence," said a weather office official. The main cause seemed to be an abrupt clash of cold air from the north and warm air from the south setting up the atmospheric conditions that produce tornadoes.

Maniwaki police said about 20 homes and businesses were destroyed or heavily damaged. The short but violent storm cut a 200-foot path of destruction through the town of 7,000.

Jennine Lacroix, 38, and her son Roger, 17, died when the twister picked up their mobile home and flung it about 300 feet into another trailer home.

Police cordoned off the damaged area Sunday in an attempt to discourage sightseers and looters as a massive clean-up effort began.

Quebec Solicitor-General Roy Fournier visited the town Sunday, compared the sight with the northern Quebec community of St. Jean Vianney, devastated by a mud slide May 4, 1971, and said both federal and provincial governments must assist stricken residents.

He said he has already talked with Premier Robert Bourassa and been assured that the province will provide aid.

Eyewitnesses said numerous explosions occurred when flying debris smashed into hydro lines during the storm.

One man said the Lacroix trailer was lifted

LONDON FREE PRESS

Homes hurled through air

JUN 26 1972

(Continued from Page One)

15 to 20 feet off the ground before it slammed into a neighboring mobile home.

Mrs. Lacroix's other sons, Yves, 7, and Miche, 13, also were in the trailer when the twister struck. Both are in hospital, Yves in serious condition. Mr. Lacroix was at work at the time.

Gilles Brunet, who lives near the Lacroix trailer, said that he and other rescuers found Mrs. Lacroix's body about 15 feet from the wrecked trailer. He said she apparently was electrocuted by fallen wire.

He said the son's body was located in a pile of rubble about 40 feet from the trailer.

Leonard Cote, owner of the trailer hit by the Lacroix home, said he lost everything in the disaster.

Mr. Cote's wife Marthe said she was in their trailer when the tornado struck, and that her six-year-old son Mario warned her of the twister.

She said he came in the door and cried, "Quick, Mom, close the windows and doors. The flames and wind and paper are coming."

Before she could react, the Lacroix trailer smashed into her home.



Sur une vue aérienne, on distingue bien la maison mobile (se tenant en partie sur une auto) qui a été projetée à 300 pieds par la tornade à Maniwaki, tuant ses occupants, Mme Jeanine Lacroix et son fils Roger. Mme Lacroix fut retrouvée sous la maison et son fils sous les débris, devant.

(Téléphoto PC)

63e ANNEE — NO 109 SHERBROOKE, LUNDI, 26 JUIN 1972 ★ ★10 CENTS

La Tribune

Mesures immédiates pour aider les sinistrés

Deux morts dans la tornade à Maniwaki

Storm Date: Sat June 24 '72

Par ELIE LALANCETTE

MANIWAKI, (PC) — Une tornade soudaine a causé la mort de deux personnes, en a blessé neuf autres, détruit une dizaine de maisons et causé pour environ $1 million de dommages à la ville de Maniwaki, peu avant six heures samedi soir.

Les deux personnes qui ont péri sont Mme Jacques Lacroix, 38 ans et son fils Roger, 19 ans, dont la maison mobile a été transportée à quelque 200 pieds de sa base avant de s'écrouler sur une autre maison mobile.

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Sans avertissement

Précédée de pluies torrentielles, la tornade s'est abattue sans avertissement. Sur son chemin d'environ 200 pieds de largeur, elle a emporté les maisons, un toit de garage en béton et empilé plus d'une cinquantaine de voitures les unes sur les autres comme des jouets d'enfant.

La longueur des dégâts serait d'environ 5 milles.

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Une vingtaine d'employés de l'Hydro Québec ont dû mettre fin à leur grève pour rétablir le courant.

Maisons en mille miettes

La maison de la famille Boutin a été complètement arrachée de sa base et est retombée sur le toit de la maison voisine. Les cinq occupants ont été blessés et quatre sont encore hospitalisés.

Plusieurs maisons mobiles ont été complètement éparpillées en mille miettes.

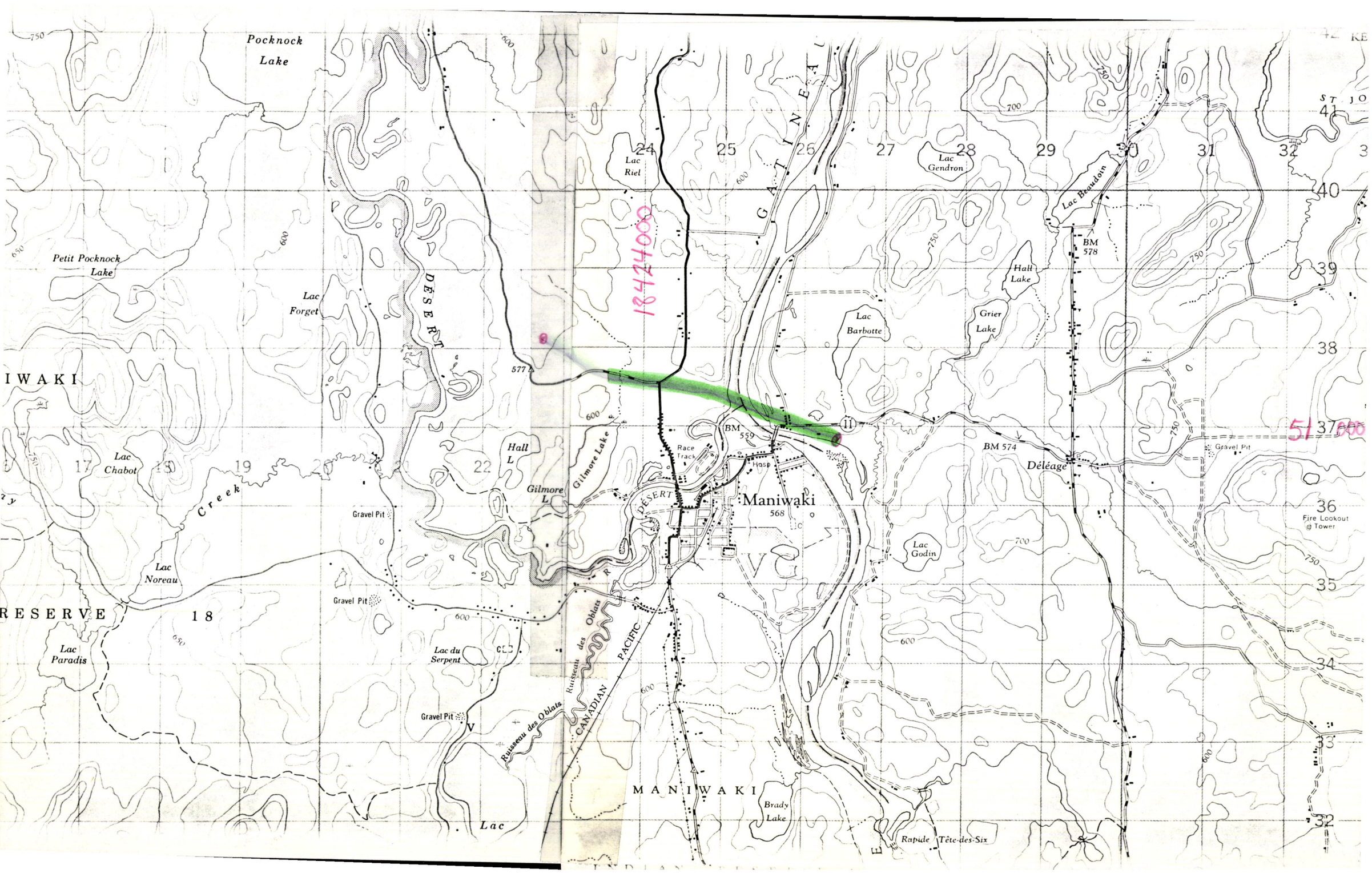
Le maire Larocque croit qu'il faudra environ deux à trois jours avant de pouvoir établir le bilan complet du désastre.

L'aide des gouvernements

Le Solliciteur général du Québec et député de Gatineau, comté où est située la ville de Maniwaki, M. Roy Fournier, était sur les lieux dimanche midi.

M. Fournier a été chargé hier, par M. Robert Bourassa, premier ministre du Québec, de coordonner les secours aux sinistrés.

Hier il a rencontré le conseil municipal de Maniwaki, réuni d'urgence, et a pris connaissance des dégâts occasionnés à la ville par la tornade. Il a, en outre, ordonné des mesures immédiates pour venir en aide aux éléments les plus éprouvés de la population.



Pocknock Lake
Petit Pocknock Lake
Lac Forget
DÉSERT
IWAKI
Lac Chabot
Creek
Lac Noreau
RESERVE
18
Lac Paradis
Gravel Pit
Lac du Serpent
Ruisseau des Oblats
CANADIAN PACIFIC
Lac Riel
GATINEAU
Lac Gendron
Lac Beaudoin
BM 578
Hall Lake
Grier Lake
Lac Barbotte
577
Hall L
Gilmore L
Gilmore Lake
Race Track
BM 559
Hosp
Maniwaki
568
BM 574
Déléage
Gravel Pit
Fire Lookout @ Tower
Lac Godin
MANIWAKI
Brady Lake
Rapide Tête-des-Six
Lac
18424000
51000

WORKSHEET

IDTO 05972-02

(1) ORIGIN x 18426450

y 5136800

(5) Standard Error S_x

$C = 30$

(2) LIFT-OFF x_1 18422700

y_1 5138200

(6) Standard Error S_y

$C = 30$

(3) $(x_1 - x)$ = -3750 ✓

(4) $(y - y_1)$ = -1400 ✓

(7) DAMAGE LENGTH

$$L = [(x_1 - x)^2 + (y - y_1)^2]^{1/2}$$

(8) $\alpha = \tan^{-1} \dfrac{|y - y_1|}{|x - x_1|}$

(3)+(4) $\boxed{\rightarrow r,\theta}$ = 4003 ✓

$\boxed{x \leftrightarrow y}$ = 20 ✓

(9) Standard Error $S_L = (S_x^2 + S_y^2)^{1/2}$

(5)+(6) $\boxed{\rightarrow r,\theta}$ = 42 ✓

(10) $\beta = \dfrac{\tan^{-1} S_L}{L}$

(7)+(9) $\boxed{\rightarrow r,\theta}$

$\boxed{x \leftrightarrow y}$ = 1°

NE quad $\phi = 90 - \alpha$

NW quad $\phi = 270 + \alpha$

SW quad $\phi = 270 - \alpha$

SE quad $\phi = 90 + \alpha$

(11) ϕ = 110°

A REPORT ON THE MANIWAKI TORNADO OF 24 JUNE 1972

D. Soucy and J. Ring. A.E.S. Montreal WR Office

1. Introduction

The storm struck the northeastern portion of the city of Maniwaki at 5.50 PM EDT, Saturday, and moved northwesterly on a track as shown in Fig. 1. Reports of eyewitnesses gave the duration of the storm at 3 to 5 minutes.

The track of the storm was plotted by personnel of the Association de Protection de l'Outaouais who made an aerial survey by means of a helicopter. The writers of this report drove to Maniwaki to survey the damage and interview observers of the storm. Damage caused by the storm was observed from the ground and also from the air in a low level flight of a light aircraft.

A funnel cloud was sighted at 3.30 PM in the vicinity of Lac Godin which is about one and one half miles east of Maniwaki. There was a well-founded rumour that another was seen in the neighbourhood of Lac Bois Franc, about 7 miles southeast of Maniwaki, during the afternoon. However, during the passage of the storm at Maniwaki, a pilot four miles northeast of the city saw no evidence of funnel clouds. This does not preclude their existence, since very dark clouds and heavy rain could have been the obscuring media. The pilot and three passengers emphasized the fact that there was no evidence of lightning or thunder.

2. Effects of the Storm

On the following day, a careful inspection by the forestry personnel revealed that the track commenced at point A. (See Fig. 1) From point A to B, it caused structural damage or partially demolished 21 houses. The track, then, was found across the river at point C in a meadow, where it apparently turned sharply to the left and then to the right. From point D to E, the storm was in its most violent stage, demonstrating explosive properties.

The south side of a large garage built of cement blocks was completely destroyed. All the windows of new cars in the show room portion of this building (on the northwest side) were blown-out during the passage of the storm. Several cars parked in the rear were picked up and carried over the garage and projected onto new cars parked in front of this garage, a total trajectory of 150 feet.

A house was lifted off its foundation and dumped on top of the house next door, demolishing it, while a neighbouring home remained unscathed.

Two deaths occurred during this storm. This happened in the same street in a rather bizarre manner. An eyewitness reported that a large house trailer was hurled into the air over electrical power lines, where it broke in half, resulting in the fall and loss of life of Mrs. Lacroix. One of her sons, 19 years of age, was found dead in one half of the trailer which completely flattened a small shed approximately 400 feet from its original location, while the other half fell against another trailer some 50 feet perpendicular to the direction of motion of the tornado.

Mr. Arsène Beauregard, whose house was situated about 900 feet north of the passage of the storm gave us his impressions of the storm: "I was sitting in my living room when I heard a sound like powerful jet engines. They sounded so close that I looked outside where I saw some roofs lifting in the distance. At this point I did not waste any time and rushed down to the cellar with my family to await the passage of the storm, which lasted only a few minutes."

West of point E, the track of the storm went through fields which were strewn with debris of all sorts. Beyond point F on the edge of the woodland, a swath, with hardly a tree left standing, was cut, measuring about 100 yards by 35 yards. Further west, no evidence of funnel touchdown was noted.

The width of the storm track from start to finish ranged from 50 to 150 feet over a total of about 2½ miles.

From the above evidence, we conclude that this storm can be classified only as a tornado.