E

TORNADO PROJECT SUMMARY SHEET

1. DATE AND TIME Fri Aug 1 1969 3:21 EDT

2. LOCATION OR PATH (attach map) Montréal Que. 0596904

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

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 hail sounded like machine gun fire

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

9. LIST ANY ASSOCIATED PHENOMENA (Such as hail, vivid lightning heavy rain, no rain, etc.) heavy hail 50mm

10. TOTAL DAMAGE ESTIMATE $ U 11. TOTAL DEATHS 1

12. TOTAL INJURED 5 13. TOTAL HOMELESS

14. LIST ALL REFERENCES Mount Royal Weekly Post : Aug 7 69
Le Journal de Quebec Sat Aug 2 '69
Montreal Gazette Aug 2 69

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

- storm cut a narrow swath of heavy hail and high winds across the north part of Montreal Island
- one man killed when struck by concrete blocks which toppled from an ajacent building
- many trees were toppled causing massive traffic jams



Town of Mount Royal
Weekly Post, Que.
August 7, 1969

3:30 pm FRI AUG 1ST 1969

enrolment 1055

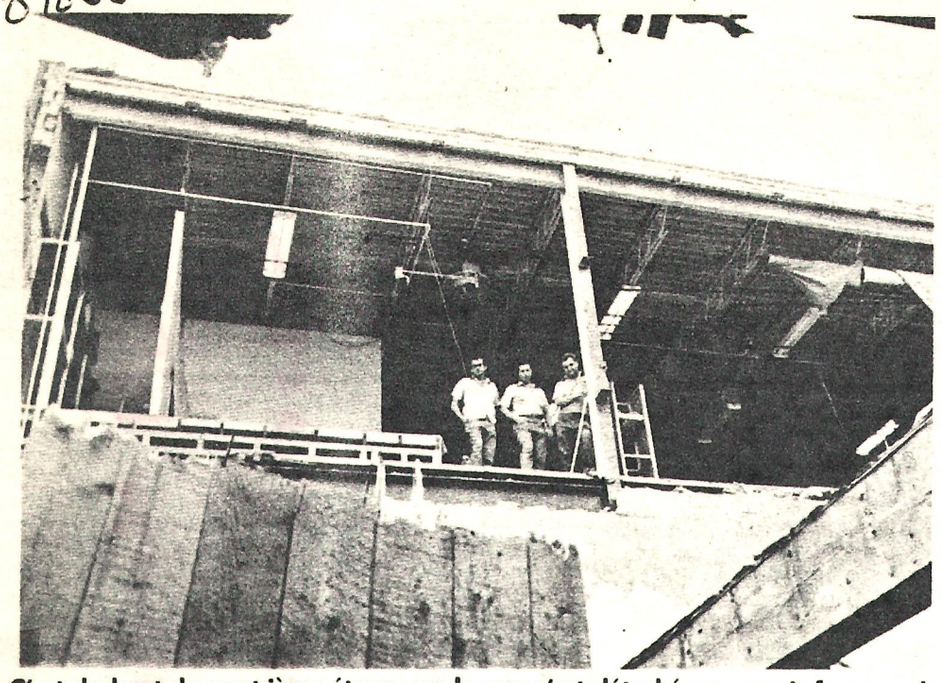
No Damage in Town from Freak Storm

The Town of Mount Royal was not in the direct path of the freak storm last Friday afternoon which cut a narrow swath along the Trans-Canada highway, through St. Laurent where several windows were smashed, and east through St. Michel, causing the death of a construction worker. However, in the northend of Town, hail fell with heavy rain at the height of the storm around 3:30 p.m.

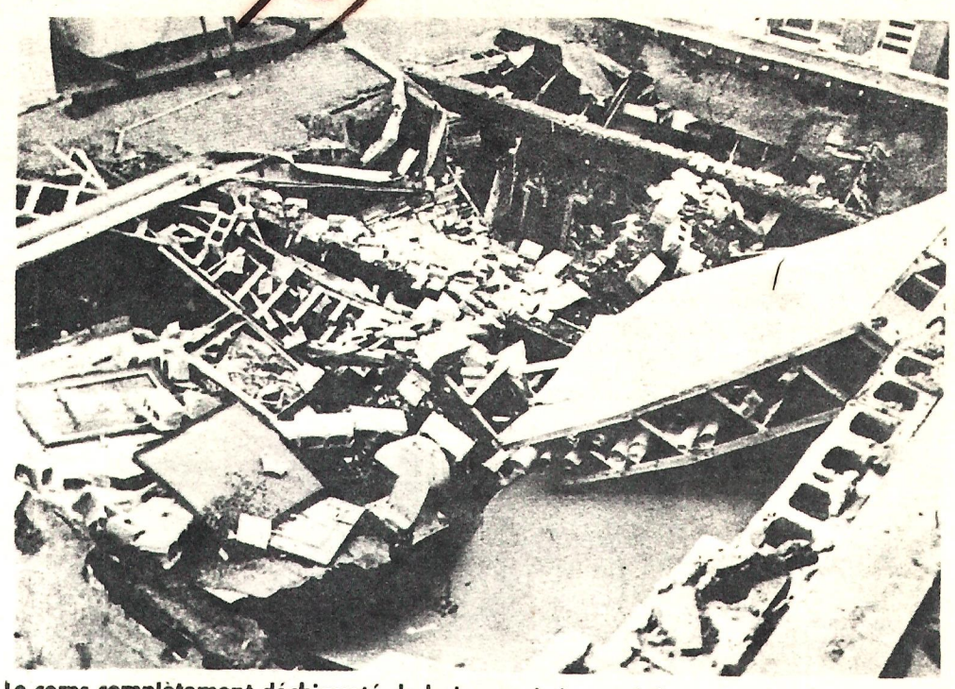
Mr. John Warren, Town Manager, notes that there was no rash of calls due to flooding. He also told The Post that a record of all calls for assistance due to flooding of basements has been kept since 1954, and that gauges have been placed at manholes where flooding is recurrent, and these are checked following every severe storm. Recently, a rain gauge has also been purchased, and when put into use, the information of both types of gauges will be correlated.

Le Journal de Québec
Circ. 7,388
August 2, 1969

FRI AUG 1ST 1969



C'est du haut du quatrième étage que le mur s'est détaché pour venir fracasser la toiture du deuxième étage de l'immeuble voisin. *(Photo Le Journal Bourdon)*



Le corps complètement déchiqueté de la jeune victime a été retrouvé sous le plafond effondré. *(Photo Le Journal Bourdon)*

DOMMAGES INCALCULABLES - UN MORT

TORNADE-ÉCLAIR SUR MONTRÉAL

Des arbres déracinés, des fils électriques coupés, des centaines de voitures endommagées, des pannes d'électricité et une chute de grêlons gros comme un oeuf, tel est le tragique bilan d'une tornade sans précédent qui a fait un mort hier après-midi.

Il était environ 3 heures 30 lorsque le soleil a cédé la place à une tornade qui passera certainement à l'histoire de l'île de Montréal. Des vents très violents ont littéralement balayé plusieurs quartiers semant sur leur passage, la panique et la destruction. A tel point que les dégats sont inestimables. Alors que certains endroits n'ont absolument pas été touchés, tel Montréal-Est, d'autres tel Saint-Laurent, ont été envahis par la panique et des accidents s'y sont produit par centaines.

LA PANIQUE

En moins de 15 minutes, la panique régnait dans cette municipalité du nord de Montréal. Les vents violents ont fouetté la ville en détruisant tout sur leur passage; des grêlons de la grosseur d'un oeuf ont brisé des milliers de vitres et endommagé très lourdement des centaines de voitures. En moins de temps qu'il ne faut pour l'écrire le sol était recouvert, au dire de la police de l'endroit, de près de 3 pouces de grêle, offrant aux citoyens un spectacle aussi original que lamheureux. Les automobilistes arrêtaient leurs voitures pour aller se mettre à l'abri sous la banquette arrière de leur véhicule, les piétons couraient épouvantés vers des abris de fortune, devant cet évènement sans précedent. Le sergent Pigeault de la police de Ville Saint-Laurent a même rapporté avoir vu le conducteur d'une petite Volkswagen s'enfouir la tête dans une chaudière de peur d'être blessé par les grêlons qui bombardait sa voiture avec une violence incroyable. La police rapporte aussi que des milliers de vitres de magasins et de maisons privées ont volé en éclats sous le choc de ces véritables "cubes de glace". La police de la ville a donc dû effectuer une surveillance très serrée durant toute la nuit dernière à cause des nombreuses vitrines de magasins qui ont éclaté lors de la tempête. Un seul piéton a reçu un "projectile "naturel" sur le crâne et la police rapporte qu'il a subi une blessure légère.

DANS LES TENEBRES

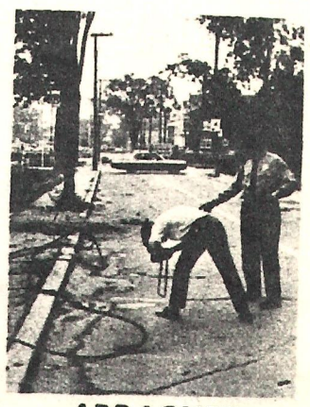
Pendant ce temps, à l'autre extrémité de l'ile, dans la municipalité de Pointe-aux-Trembles, un véritable chaos régnait.

La violence de la tornade jetait les arbres à terre par centaines, coupait les fils électriques pour causer des pannes d'électricités à la grandeur de la municipalité. Seulement 30 maisons dans toute la ville avaient finalement de l'électricité tandis que le reste des immeubles de la ville étaient dans les ténèbres. La police de l'endroit rapporte que les branches d'arbres qui jonchaient la chaussée par milliers ont causé plusieurs embêtements de circulation. La piste de course Richelieu a annulé son programme et cela a contribué grandement à congestionner la circulation à travers toute la ville au point que les policiers ne savaient plus où donner de la tête.

Au moment d'aller sous presse, la panne généralisée d'électricité n'avait pas encore été réparée. En plus de ces deux municipalités lourdement touchées, la ville de Montréal a eu sa large part de dégâts et même, un jeune homme a perdu la vie lorsque le plafond de son endroit de travail s'est affaissé sur lui.

En plus de cette mort tragique, plusieurs maisons et des milliers d'automobiles ont été endommagées et plusieurs rues ont été fermées.

Ville LaSalle aurait aussi subi de nombreux dégats. Il faudra sans doute plusieurs jours avant de dresser le bilan complet de cet ouragan de grêle qui a en 15 minutes semé la destruction à travers la métropole et plusieurs de ses banlieues.



ARRACHES
Les fils électriques serpentaient après avoir été sectionnés.
(Photo, le Journal — Bourdon)



Gros comme ça! Des cubes de glace que l'on penserait sortis du réfrigérateur étant donné la saison et la chaleur! Mais ils sont bel et bien tombés sur la tête des Montréalais hier après-midi, accompagnant la pluie diluvienne. *(Photo Le Journal — Bourdon)*

ÉCRASÉ À MORT

La tornade a fait un mort lorsque le mur d'un immeuble s'est écrasé sur le toit de l'immeuble voisin.

Le vent violent pénétra par les fenêtres de la maison effondrée et la pression arracha le mur du reste de la maison pour faire s'écrouler sur le toit de la maison voisine. Un jeune homme, Floran Lévesque, âgé de 19 ans, a été écrasé à mort par le mur. La jeune victime se trouvait chez son employeur, Mobiliers Modernes, du 8515, 9e avenue dans le quartier Saint-Michel. M. Lévesque était originaire de Sainte-Anne-des-Monts en Gaspésie, résidence actuelle de ses parents.

MÉTÉO

Nuageux devenant ensoleillé au cours de l'après-midi. Maximum et minimum à Québec et au Saguenay-Lac St-Jean: 80 et 60.

LA MARÉE

Québec: hautes: 9.20 a.m. — 9.50 p.m.; basses: 4.35 a.m. — 5.00 p.m.
Chicoutimi: hautes: 5.45 a.m. — 6.15 p.m.; basses: 0.30 a.m. — 1.05 p.m.



Deracinés—D'énormes arbres ont été déracinés au cours de la tornade et c'est là un parmi les innombrables et incalculables dégats causés. *(Photo Le Journal — Bourdon)*



STOP—Un arbre, ça vous arrête un camion . . .

FRI AUG 1st 1969

MONTREAL QUEBEC

Canadian Press
Clipping Service

Montreal Gazette, Que.
Circ. 139,421
August 2, 1969

FBI AUG 1ST 1969

K1055



(Gazette Photo Service: Garth Pritchard)

Mrs. R. S. Shepherd of St. Laurent shows hailstones that fell yesterday

Giant hailstones damage suburbs

A violent flash storm with hailstones as big as golfballs struck part of the Lakeshore, and northern areas of Montreal late yesterday, resulting in the death of at least one man.

Montreal Police reported that an unidentified man was crushed to death when the wall of a building at 8507 9th Ave., in the St. Michel district, toppled in high winds.

Reports of property damage poured in as the hail and heavy winds smashed windows, dented automobiles, toppled trees and chimneys and ripped roofing material.

Dorval police said they were hit at 3:21 p.m. by hail and high winds which brought trees down on top of homes and electrical wiring.

A spokesman said the hailstones were "as big as 50-cent pieces," at Dorval.

Lachine police reported several chimneys fell and roofing material was torn and carried off by the winds.

St. Laurent police reported heavy property damage, including scores of smashed windows. A police spokesman said that cars, including his own, were dented by the hail, which he described as bigger than "ice cubes."

Six skylights in the police and fire stations were smashed, he said.

Cecil Pinto of Edward Laurin Blvd., St. Laurent told The Gazette he hadn't seen anything like it in 20 years.

"It was just like winter, with big lumps of white ice covering the ground," one man said.

Barrage of hail rips city kills one

FRIDAY AUGUST 1ST 1969
MONTREAL QUE

By GARY BUSH

A short-lived squall swept the northern part of the island yesterday afternoon, killing a young man, slightly injuring five persons, and dumping hail stones the size of golf balls.

The hail, powered by strong winds, dented cars, felled trees and TV antennas, slashed wires, and smashed windows. There were numerous power failures.

In St. Michel, a construction worker was killed when a wall of a building at 8507 Ninth avenue collapsed on him.

Florian Lévesque, 19, of 11000 Pigeon avenue, Montreal North died instantly when struck by concrete blocks which toppled from an adjacent four-story building crashed through the roof under which he was working.

No one else was touched.

The barrage of hail was felt worst in Cartierville and St. Laurent, where five employes at the Northern Electric plant on Laurentian boulevard suffered minor cuts from flying glass.

Traffic was badly snarled on Gouin boulevard where four downed trees blocked separate intersections.

In both areas police were inundated with the reports of power failures and property damage.

One Cartierville man said the hail stones sounded "like machinegun fire. They were like huge snowballs."

Donald Hewlett, bartender in a St. Laurent tavern said the hail stones were "bigger than ice cubes you put in a drink. We put some in the freezer, just to preserve them."

A resident of Bertrand street in St. Laurent said the tops of two parked convertibles had been "slashed" and flowers and tree branches were strewn all over.

"It was unbelievable. They were as big as oranges," she said.

Another St. Laurent resident reported 19 windows in her home were smashed.

The Dorval weather bureau reported temperature dropped 11 degrees within the four-minute period. It said "such a hail storm was an anomaly for this region."

Downtown Montreal experienced only a mild thunderstorm and showers while other areas were being pelted by hail.

Pointe-aux-Trembles police reported all but a small section of the town was blacked out.

"We have traffic jams that could match any of Montreal's," said one police officer.

Both Sherbrooke and Notre Dame streets east were backed up for miles because street lights were off.

Chateauguay Centre lost power for three hours.

Dorval police said wires, trees, and some chimney tops were down while many cars had dented roofs.

WORKSHEET

IDTO 0596904

(1) ORIGIN x 18598800

y 5040800

(2) LIFT-OFF x_1 18616500

y_1 5057500

(3) $(x_1 - x)$ = 17700

(4) $(y - y_1)$ = -16700

(5) Standard Error S_x

0.750

(6) Standard Error S_y

0.750

(7) DAMAGE LENGTH

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

(3)+(4) [→r,θ] = 24355

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

[x↔y] = 43

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

(5)+(6) [→r,θ] = 1061

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

(7)+(9) [→r,θ]

[x↔y] = 3

NE quad $\phi = 90 - \alpha$

NW quad $\phi = 270 + \alpha$

SW quad $\phi = 270 - \alpha$

SE quad $\phi = 90 + \alpha$

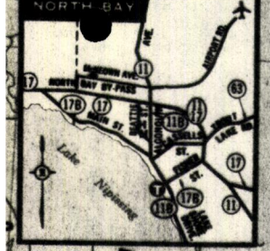
(11) ϕ = 227

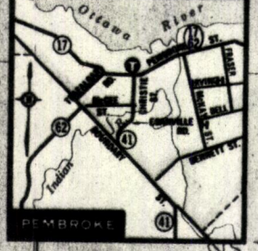


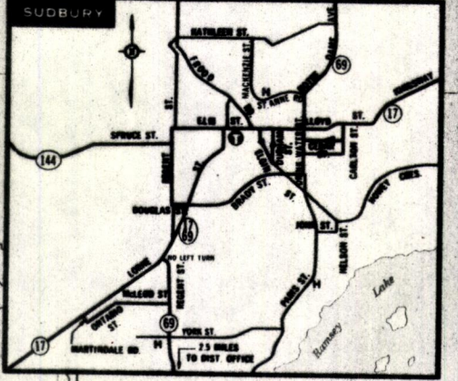
ILE DE MONTREAL
MONTREAL NORD
SAINT-MICHEL
JANJOU
POINTE AUX-TREMBLES
Montreal Est
Saint-Léonard
OUTREMONT
MONT-ROYAL
SAINT-LAURENT
CARTIERVILLE AIRPORT
RIVIÈRE DES PRAIRIES
CANADIAN NATIONAL
CAN NAT
CAN PAC
Oil Refinery
Quarry
Cemetery
Municipal Nursery
Golf Course
Greenhouse
Ventilator
Sports Track
Stadium
Ile Paton
Ile aux Chats
Laval City Limits
Pierrefonds City Limits
Rapides du Sault au Récollet
Gohier Jct
Building
Bâtiment
Church
Église
15° 52' or 282 Mils
Magnetic North
Grid North
Use diagram only to obtain numerical values.
APPROXIMATE MEAN DECLINATION 1969
FOR CENTRE OF MAP
Annual change 0.0'
ONE THOUSAND METRE
UNIVERSAL TRANSVERSE MERCATOR GRID
ZONE 18
GRID ZONE DESIGNATION
18T
100,000 M. SQUARE IDENT

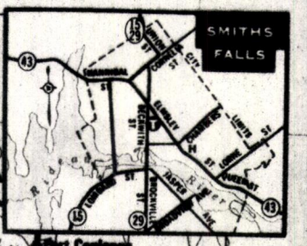
78° 77° 76°

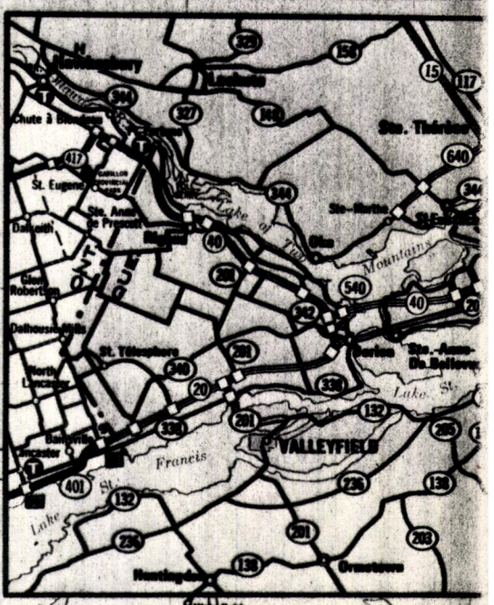












MINISTRY OF TRANSPORTATION AND C
DISTRICT ADDRESSES AND TELEPH

Road surface conditions in all seasons may be obtained from th

District No. 1, 60 Keil Drive, P.O. Box 910, CHATHAM, ONT., N7M 5L3, Phone
District No. 2, 390 Saskatoon St., P.O. Box 6008, LONDON, ONT., N5V 2Y4, P
District No. 3, 581 Huron St., P.O. Box 8, STRATFORD, ONT., N5A 6S6, Phone
District No. 4, 1182 North Shore Blvd. E., P.O. Box 5020, HAMILTON, ONT., L
District No. 5, 1450 Seventh Avenue East, P.O. Box 520, OWEN SOUND., N4
District No. 6, 1201 Wilson Avenue, DOWNSVIEW, ONT., M3M 1J8, Phone 24
District No. 7, 138 Hope St. North, P.O. Box 150, PORT HOPE, ONT., L1A 3W
District No. 8, 355 Counter St., P.O. Box 4000, KINGSTON, ONT., K7L 5A3, P
District No. 9, 530 Tremblay Road, OTTAWA, ONT., K1G 0E4, Phone 745-684
District No. 10, 64 Monck Rd., P.O. Box 300, BANCROFT, ONT., K0L 1C0, Pho
District No. 11, 207 Main St. West, HUNTSVILLE, ONT., P0A 1K0, Phone 789-
District No. 13, McKeown Ave., P.O. Box 3030, NORTH BAY, ONT., P1B 8L3,
District No. 14, P.O. Box 1390, NEW LISKEARD, ONT., P0J 1P0, Phone 647-67
District No. 16, 50 Third Ave., P.O. Box 820, COCHRANE, ONT., P0L 1C0, Pho
District No. 17, P.O. Box 7000, Station "A", SUDBURY, ONT., P3A 4S2, Phone
District No. 18, 160 MacDougall St., P.O. Box 500, SAULT STE. MARIE, ONT.,
District No. 19, 801 West Walsh St., P.O. Box 96, Station "F", THUNDER BAY,
District No. 20, 808 Robertson St., P.O. Box 5070, KENORA, ONT., P9N 3X9, P
Road Information Centre, 1201 Wilson Avenue, DOWNSVIEW, ONT., M3M 1J8.

PEMBROKE
Deep River
Chalk River
Petawawa
Chapeau
ALLUMETTE ISLAND
Westmeath
La Passe
Beachburg
Foresters Falls
Renfrew
Arnprior
Calabogie
Griffith
Barry's Bay
Eganville
Douglas
Cormac
Bonnechere
Round Lake Centre
Quadeville
Palmer Rapids
Mount St. Patrick
Burnstown
White Lake
Pakenham
Fitzroy Harbour
Constance Bay
Woodlawn
Dunrobin
Galetta
Kinburn
Antrim
Carp
Kanata
Corkery
Stittsville
Richmond
Ashton
Carleton Place
Dwyer Hill
North Gower
Osgoode
Manotick
Manotick Sta.
Greenbank
Dayton
Clayton
Brightside
Middleville
Hopetown
Poland
Watsons Corners
Innisville
Franktown
Lanark
Balderson
Perth
Port Elmsley
Smiths Falls
Merrickville
Burritts Rapids
Oxford Mills
Mountain
Kemptville
Bishops Mills
Spencerville
Jasper
Edwardsburg
Ompah
Plevna
Snow Road Sta.
Mississippi Sta.
Tiphin
McDonalds Corners
Ardoch
Clarendon Sta.
Coxvale
Fernleigh
Gunter
St. Ola
Gilmour
Clymer
Waters Cave
Hartlowe
Henderson
Combermere
Barryvale
Round Lake
Lake Clear
Golden Lake
Haley Station
Fort Coulonge
Shawville
Portage du Fort
Bryson
Campbell's Bay
Quyon
Wakefield
Ste. Thérèse
Ste. Marthe
Ste. Anne de Prescott
St. Télesphore
Huntingdon
Dalhousie Mills
Dalhousie Station
Lancaster
Chute à Blondeau
St. Eugene
Glen Robertson
North Lancaster
Bainsville
Cornwall
Summerstown
Martintown
Alexandria
Maxville
Apple Hill
Vankleek Hill
Hawkesbury
Caledonia Springs
Casselman
Limoges
Navan
Orleans
Cumberland
Rockland
Clarence Creek
Embrun
Russell
Metcalfe
Manotick
Kars
Carlsbad Springs
Greely
Osgoode
Vernon
Richmond
Munster
Fallowfield
Woodlawn
Stittsville
Kanata
Carp
Antrim
Kinburn
Galetta
Dunrobin
Constance Bay
Fitzroy Harbour
Woodlawn
Arnprior
Braeside
Glasgow Station
Burnstown
White Lake
Pakenham
Mount St. Patrick
Calabogie
Griffith
Quadeville
Palmer Rapids
Barry's Bay
Eganville
Douglas
Cormac
Bonnechere
Round Lake Centre
Beachburg
Foresters Falls
Renfrew
Westmeath
La Passe

Canadian Press
Clipping Service

~~4:15 pm. JUNE 26 1969~~

FRI JUNE 27 1969.

Renfrew Advance, Ontario
Circ. 4,265
July 2, 1969

Holiday Weekend

Out of a gale to sunny skies

Dominion Day holiday travellers turned for home Tuesday night in bright, breezy weather, a far cry from what many of them met head-on when they arrived in the Ottawa Valley last Friday.

The worst storm of the early summer—60 mph winds that swept sheets of rain across the district—turned roads into running creeks and left trees toppled and hydro lines down just as the holiday got underway.

Brunt of the storm hit the Quebec side at Portage du Fort, Shawville and on down the Valley.

But this area was far from spared. Trees were snapped in two like match sticks around Westmeath and Beachburg and at least one barn in that area was reported to have been literally torn apart.

No major damage was reported in Renfrew, but streets were flooded with water and electricity knocked out in some areas.

Some of the deepest puddles in mid-town were used by youngsters as swimming holes. The water was deep enough in some spots to easily float a boat.

Tree branches flew in all directions and at White Lake a tree fell onto the home of Bruce Campbell, doing extensive damage.

Lightning disrupted power and telephone lines at White Lake and also hit St. Andrew's United Church, but damage to the church was not heavy.

The sudden gale was the only flaw in an otherwise ideal holiday weekend.