(UPDATED)

Possible Tornado
Brussels - Arthur, Ontario
October 13, 1973

Date- Local: Saturday, October 13th, 1973
UTC: Sunday, October 14th, 1973
Time- Local: 2200
UTC: 0200
Location: Vicinity Brussels - E of Arthur
Region: Huron - Perth
Classification: Possible Tornado
Category: -999
Casualties: None
Track Length: 63770 m
Width: None available
Motion: 255 degrees
Damage Estimate: None available
F-Scale Rating: F1
Code: BS
Damage Survey: None
Spotter Reports: None
Other Documents:
Phone interview notes with locals who sustained damage
Map of approximate damage track
Newspaper article

Tornado F-Scale Assessment

Brad L. Rousseau
Tornado Data Production Assistant, Environment Canada
January 25th, 2011

Classification: Possible Tornado
Date: Saturday, October 13th, 1973
Location: Vicinity Brussels - E of Arthur, Huron - Perth

Assessment: F1
F-Code: BS
Explanation of Assessment: Brand new chicken barn was demolished

SJS

B

TORNADO PROJECT SUMMARY SHEET

F = 1

ONT

1. DATE AND TIME OCT 13 1973 LATE EVENING

2. LOCATION OR PATH (attach map)
VCNTY BRUSSELS TO EAST OF ARTHUR 0697310

3. PATH LENGTH ☐ NOT KNOWN ☐ <1mi; ☐ 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 $MANY THOUSANDS 11. TOTAL DEATHS NONE

12. TOTAL INJURED NONE 13. TOTAL HOMELESS U

14. LIST ALL REFERENCES

LISTOWEL BANNER, OCT 18 1973

BEACON HERALD, STRATFORD OCT 15, 1973

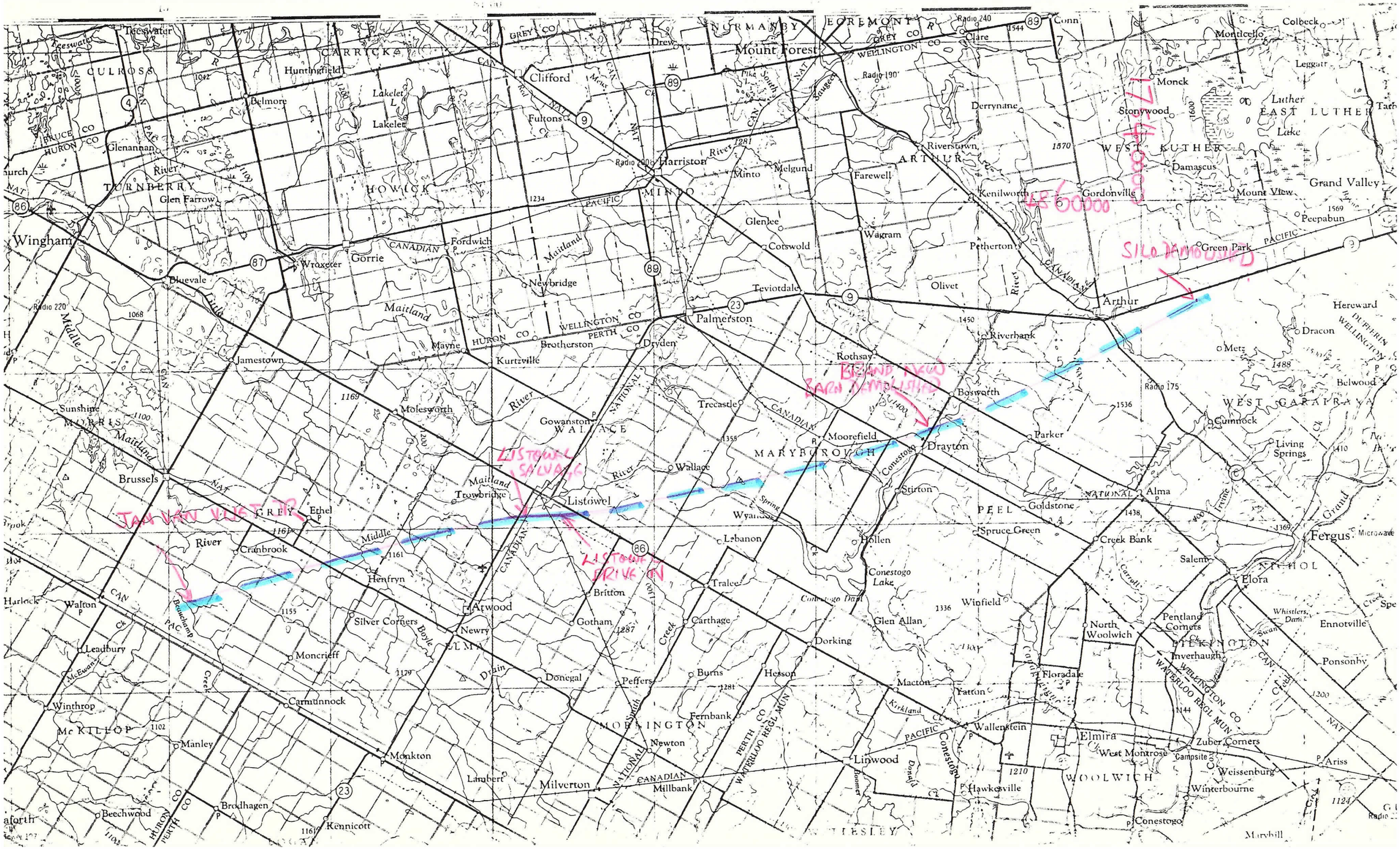
TELEPHONE INTERVIEWS, DEC 10, 1980 by M. J. Newark

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

(a) no remarks

(b) Called the former Listowel Salvage Ltd (519) 291-2280
also - JAN VAN VLIET JR (519) 887-6915 of Lot 13, 15th Conc of GREY TP.
Information also obtained from Bill Benson (519) 638-2433 and WESLEY WHITTAKER (519) 343-5082

According to Bill Benson a brand new chicken barn, 200ft long, was flattened about 5 miles southeast of the Benson farm (for location of Benson farm see Teviotdale tornado)
According to Wesley Whittaker, a silo located 1/4 mi south of Hwy #9 and 4 miles east of Arthur, was demolished.


Mount Forest
Wingham
Palmerston
Arthur
Harriston
Clifford
Drayton
Listowel
Elora
Fergus
Brussels
Wallace
Linwood
Milverton
Monkton
Atwood
Newry
Henfryn
Cranbrook
Ethel
Molesworth
Jamestown
Gowanstown
Trowbridge
Lebanon
Tralee
Britton
Gotham
Carthage
Dorking
Glen Allan
Winfield
Hollen
Stirton
Moorefield
Trecastle
Wyandot
Spruce Green
Creek Bank
Salem
Pentland Corners
North Woolwich
Inverhaugh
Floradale
Wallenstein
Elmira
West Montrose
Zuber Corners
Weissenburg
Winterbourne
Hawkesville
Conestogo
Ariss
Ponsonby
Ennotville
Murphill
Macton
Yatton
Kirkland
Peffers
Burns
Hesson
Donegal
Fernbank
Newton
Millbank
Lambert
Carmunnock
Winthrop
Leadbury
Moncrieff
Silver Corners
Manley
Beechwood
Brodhagen
Kennicott
Walton
Harlock
Sunshine
Bluevale
Wroxeter
Gorrie
Fordwich
Newbridge
Teviotdale
Glenlee
Cotswold
Wagram
Minto
Melgund
Farewell
Riverstown
Kenilworth
Petherton
Olivet
Riverbank
Rothsay
Bosworth
Parker
Cummock
Metz
Dracon
Hereward
Belwood
Living Springs
Alma
Goldstone
Creek Bank
Green Park
Peepabun
Grand Valley
Mount View
Gordonville
Damascus
Stonywood
Derrynane
Monck
Monticello
Colbeck
Leggatt
Luther
Lake
Glenannan
Belmore
Lakelet
Lakelee
Fultons
Drew
Clare
Conn
Truswater
Teeswater
Huntingfield
Glen Farrow
Brotherston
Dryden
Mayne
Kurtzville
Maitland
Middle
Little
Conestogo
Conestogo Lake
Conestogo Dam
Whistlers Dam
Swan Lake
Carroll Creek
Boyle Creek
Brandeamp Creek
McEwan Creek
Spring Creek
Donald Creek
Boomer Creek
Kirkland Creek
Irvine Creek
Grand River
Fairchild Creek
Drain
Lake
Ch
Cr
Sta
Campsite
Microwave
Radio 240
Radio 190
Radio 200
Radio 220
Radio 175
1544
1570
1569
1536
1488
1450
1438
1410
1400
1369
1355
1336
1287
1281
1234
1210
1179
1169
1161
1155
1144
1124
1102
1100
1068
1042
1000
900
800
700
600
500
400
300
200
100
CANADIAN PACIFIC
CANADIAN NATIONAL
CAN PAC
CAN NAT
PACIFIC
NATIONAL
CANADIAN
WATERLOO REGL MUN
WELLINGTON CO
PERTH CO
HURON CO
GREY CO
BRUCE CO
WELLINGTON CO
DUFFERIN CO
CULROSS
CARRICK
NORMANBY
EGREMONT
ARTHUR
HOWICK
TURNBERRY
MINTO
WEST LUTHER
EAST LUTHER
WEST GARAFRAXA
PEEL
MARYBOROUGH
WALLACE
ELMA
MORNINGTON
WOOLWICH
WILMOT
PILKINGTON
McKILLOP
MORRIS
GREY
JAN VAN VLIET JR
LISTOWEL SALVAGE
LISTOWEL DRIVE IN
BARN DEMOLISHED
SILO DEMOLISHED
$60000

WORKSHEET

IDTO 0697310

(1) ORIGIN x 1748150 0

y 4835950

(2) LIFT-OFF x_1 1754340 0

y_1 4853700

(3) $(x_1 - x)$ = 61900

(4) $(y - y_1)$ = 17750

(5) Standard Error S_x C30

(6) Standard Error S_y Ø200

(7) DAMAGE LENGTH

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

(3)+(4) $\boxed{\rightarrow r,\theta}$ = 64395 m

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

$\boxed{x \leftrightarrow y}$ = 16°

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

(5)+(6) $\boxed{\rightarrow r,\theta}$ = 202 Ø

(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 = 254°

Pictures on Page 7, 9, 11,
Page 7 Theatre.

The Listowel Banner - Oct. 18/1973

High Winds Damage Area as weather front passes

A rapid moving weather front chased through S. W. Ont. Sat. night, accompanied by a limited amount of hail and unnaturally high winds. Although it lasted only a few minutes at the most, the freak front caused considerable damage.

While high winds were reported over a wide area of the province, Listowel may have been hit by a "twister" type storm. Damage was spotty as is frequently the case with this kind of weather.

Worst hit ~~this~~ here was the Listowel Drive-In Theatre where the building and superstructure forming the large out-door movie screen was reduced to a pile of rubble - only a portion of the cement block walls left standing. Roofing and debris were scattered over a wide area -

Theatre manager Chuck Morrow estimated the damage at $45,000 for the screen, the building and at $8,000 for the stock. The theatre ~~was~~ closed recently for the winter and a considerable amount of stock (and equipment were stored.) in the building.

The structure is covered by insurance & will be rebuilt this fall. (519) 291-2280

Listowel Salvage Ltd, operated by Mayor David Kilbery, also was extensively damaged. Here again it appeared as though it must have been a twister that hit the area. Large sheets of aluminium, piled in some

BILL BENSON RR4 PALMERSTON 14R Maryborough Twp. (519) 638-2433
WESLEY WHITTAKER RR#1 " (519) 343-5082
PETER MINKENBERG (519) 343-5649

area. The scrap yard, were picked up by the wind and scattered across the fields for nearly a half mile, some coming to rest in trees near the Parkside Theatre. Several sheets were caught high up in a number of large spruce trees at the edge of the scrap yard.

Steel fencing panels that enclose the yard were also ripped off their framework and scattered over the road, as were a number of oil drums. Mayor Kilburn did not estimate his loss, but it will be extensive.

A car owned by Ken O'Grady and parked beside his residence at 836 Wallace Ave N., suffered considerable damage when it was struck by a tree that was blown over over by the high winds. The house which is owned by William A. Roberts was not damaged.

A small tree was blown over at the golf course and came to rest on the roof of the junior clubhouse, however no damage was reported. Another large soft maple on the 6th fairway was uprooted. A wagon rack on the farm of Harold Bartman which adjoins the golf course, was pulled off its moorings and tossed over a binder coming to rest on the club parking lot, doing no damage to the binder on the way across.

A number of Listowel homes had minor roof damage and shingles loosened by the blow.

Atwood Damage

In Atwood, Spencer Broome of Queen St. lost nearly half his barn roof, the remains of which ripped through 2 fences to end up in the back yard of the Delford Duncan property. The Duncans also had a large evergreen tree drowned by the wind. On King Street, a tree in front of Tom Anderson's house fell

on top of their car, crushing it. Another tree hit the hydro lines on the side of the house.

Across the street, in front of Mrs. A.H. Gordons home, a large maple was split and fell across road. On the same street a tree branch pulled the stac off Alex Ouchlow's house. A lilac bush at the home of R.P. Dennis was uprooted.

On Main St, Atwood, trees in a grove at George Tuck place were snapped off & some were uprooted. A small aluminum tool shed belonging to Gordon Ament was lifted & turned upside down on the Tuckers lawn.

While some Atwood residents were without hyd power for only 15 min, due to sizzling lines and the amount of damage, others went without power from t time the storm hit, (around 10:15 pm) until 9:30 am, Su

Some residents were still e out telephone service Monday evening

A spokesman for Listowel's Ont. Hydro office, Roy Galway, said the town was without power for about only 10 min when wind damaged a 110 v pole. Twin pole transformer located between Palme & Hanover. A large area surrounding Listowel, reachin to the Palmerston and Clifford area, was also affect by the blackout

several residence in Wallace & Hawick Townships as well Elma, uprooted trees uprooted & broken.

In the Palmerston area Bell Benson etc

Twisters tear through area

OCT 15 1973

A series of twisters that struck the Seaforth-Bayfield area Saturday night uprooted trees, took out power lines and flipped a $12,000 house trailer end over end.

The twisters hit Bayfield first about 10 p.m.

Mrs. Logan Cleave, of Bayfield, said she went outdoors to investigate when she heard the roar of the wind.

"The sky was jet black above," she said.

"There were points coming down from the sky like funnels to the east."

Mrs. Cleave said she went back indoors because the wind was so strong. It was bending trees, she said. Hydro then went off for two hours.

Only two hours earlier, Mrs. Cleave said, there was a clear sunset, with lightning over the lake on the horizon.

In Goderich, about 12 miles south of Bayfield, the weather office recorded a maximum wind velocity of 51 m.p.h.

The Village Market in Bayfield received major damage from the storm.

Keith Bunn, owner of the store, said a tree limb broke during the storm and crashed onto its roof. Besides damaging the roof, the limb buckled the wall beneath it. Insurance adjusters will review the damage today, Mr. Bunn said.

Homes in Bayfield were without power for about three hours, and telephone service was cut off for several hours.

The twister then skipped south about 10 miles to the Hensall area where it hit the Hay Township farm of Harold Willert, RR 4 Hensall, just north of the village.

A house trailer that was to have housed Mr. Willert's son, Richard, next month after his marriage, was completely demolished.

The wind apparently picked the trailer up and flipped it end over end. The trailer, and its contents, new furniture, were valued at $12,000.

In the town of Hensall, hydro was out for about an hour and the fire department was called out to take tree limbs off hydro lines.

The drive-in theatre screen in Hensall was blown over, but no damage reports were available this morning.

When it left Hensall, the twister touched down again north of Seaforth in McKillop Township.

About 6½ miles east of Seaforth, on the farm of Harold Pryce, RR 1 Seaforth, wind tore the steel roof off the barn, and hurled a piece of the steel a half a mile through the window of the house trailer owned by Mr. Pryce's son Brian. No one was hurt.

Throughout McKillop, trees were uprooted and hydro lines were down, blacking out parts of the township for 12 hours. Works department crews cleared trees from county roads with road graders.

Constable Ray Primeau, of the Seaforth detachment of the Ontario Provincial Police, said fully mature trees were completely uprooted, and some were snapped off a few feet from the ground by the wind.

Before blowing itself out in the Brussels area, the storm hit the Jan Van Vliet, Jr. farm at RR 2 Brussels.

There, the wind tore the steel roof off one side of the barn, and took out rafters. Damage was estimated at up to $5,000 by Mr. Van Vliet. About 250 pigs in the barn were not hurt.

No further damage from the tornado-like winds were reported from the area.