

UPDATED

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**Confirmed Tornado  
Hensall - Dublin, Ontario  
April 17, 1967**

**Date- Local:** Monday, April 17<sup>th</sup>, 1967

**UTC:** Monday, April 17<sup>th</sup>, 1967

**Time- Local:** 1657

**UTC:** 2057

**Location:** SW of Hensall - Brodhagen (NE of Dublin)

**Region:** Huron - Perth

**Classification:** Confirmed Tornado

**Category:** A

**Casualties:** 1

**Track Length:** 27420 m

**Width:** 400 m

**Motion:** 240 degrees

**Damage Estimate:** \$1 million

**F-Scale Rating:** F3

**Code:** AH

**Damage Survey:** Yes

**Spotter Reports:** Yes

**Other Documents:**

Survey memorandum outlining synoptic analysis, damage, photographs of damaged buildings, as well as sequence of events.

Numerous newspaper articles

Phone interview notes

Newark summary sheet

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## **Tornado F-Scale Assessment**

Brad L. Rousseau

Tornado Data Production Assistant, Environment Canada

January 26<sup>th</sup>, 2011

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**Classification:** Confirmed Tornado

**Date:** Monday, April 17<sup>th</sup>, 1967

**Location:** SW of Hensall - Brodhagen (NE of Dublin), Huron – Perth Region

**Assessment:** F3

**F-Code:** AH

**Explanation of Assessment:** Brick School house destroyed. Survey reports that every framed structure along the path was demolished. These mainly consisted of barns, one half of one of the houses was missing and the service station in Hensall was destroyed.

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**Confirmed Tornado**  
**St. Jacobs – Armstrong Mills, Ontario**  
~~May 20, 1996~~ **April 17, 1967**

**Date- Local:** Monday, April 17<sup>th</sup>, 1967

**UTC:** Monday, April 17<sup>th</sup>, 1967

**Time- Local:** 1812

**UTC:** 2212

**Location:** St. Jacobs - Armstrong Mills

**Region:** Waterloo - Wellington

**Classification:** Confirmed Tornado

**Category:** A

**Casualties:** None

**Track Length:** 26320 m

**Width:** None available

**Motion:** 240 degrees

**Damage Estimate:** None available

**F-Scale Rating:** F3

**Code:** AH

**Damage Survey:** Yes

**Spotter Reports:** Yes

**Other Documents:**

Survey memorandum outlining synoptic analysis, damage, photographs of damaged buildings, as well as sequence of events.

Numerous newspaper articles

Phone interview notes

Newark summary sheet

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## **Tornado F-Scale Assessment**

Brad L. Rousseau

Tornado Data Production Assistant, Environment Canada

January 26<sup>th</sup>, 2011

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**Classification:** Confirmed Tornado

**Date:** Monday, April 17<sup>th</sup>, 1967

**Location:** St. Jacobs - Armstrong Mills, Waterloo – Wellington Region

**Assessment:** F3

**F-Code:** AH

**Explanation of Assessment:** Waterloo gun and rod club had roof removed and some walls. Farm house was blown several inches off foundation, equipment shed lifted from foundation and thrown 500 ft.

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*SJS*

1. DATE AND TIME 17.4.1967 ① 1557 EST ② 1712 EST ③ APPROX ④ APPROX 1712 EST
2. LOCATION OR PATH (attach map) ① HENSALL TO DUBLIN 06967-01 ② ST JACOBS 06967-02 ③ VENTY GUELPH 06967-03 ④ MILVERTON 06967-11
3. PATH LENGTH ☐ NOT KNOWN ☐ <1mi; ☐ 1-1mi; ☐ 5-10mi; ☒ 11-50mi; ☐ LENGTH IF >50mi
4. PATH WIDTH 100 YDS TO 1/4 MILE 5. TORNADO PART OF DOLL 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; 7. "IT MADE A KIND OF WHIRLING NOISE" "THE STORM MADE A TERRIFIC NOISE"
9. LIST ANY ASSOCIATED PHENOMENA (Such as hail, vivid lightning, heavy rain, no rain, etc.) HAIL (MOTHRILL SIZE)
10. TOTAL DAMAGE ESTIMATE \$1 MILLION 11. TOTAL DEATHS 1
12. TOTAL INJURED UNKNOWN 13. TOTAL HOMELESS UNKNOWN
14. LIST ALL REFERENCES TORONTO STAR, APR 18, 19 1967  
LONDON FREE PRESS, APR 18, 19, 1967 AND NOV 28 1972  
TORONTO GLOBE AND MAIL, APR 18 1967  
STRATFORD BEACON-HERALD, APR 18 1967  
MITCHELL ADVOCATE, THUR APR 20, 1967  
Phone investigations by M.T. Newark and P.J. Elms.
15. SUMMARIZE REMARKS PERTAINING TO (a) FUNNEL; (b) INTERESTING OR CAPRICIOUS EVENTS.
- (a)-HENSALL RESIDENTS SAW THE TWISTER ZIG-ZAGGING ACROSS THE FIELDS  
-TWO FUNNELS SIGHTED IN THE NORTHEASTERN SECTION OF GUELPH  
-THE FUNNEL OF THE TORNADO WAS OBSERVED BY ELLICE TOWNSHIP  
CLARK NATHAN MOSES OF RR 2 GADSHILL BUT NO DAMAGE REPORTED IN THE TOWN-SHIP.
- (b)-CAR LIFTED OFF THE GROUND  
-HARRY ELLIOTT'S SERVICE STATION AND LUNCHROOM DESTROYED, AN OIL FURNACE IN THE GARAGE FLUNG 150 YDS INTO A FIELD  
-ROOF BLOWN OFF THE WATERLOO RUD AND LUN CLUB IN ST JACOBS  
CHAIRS, TABLES, A TV SET WERE SUCKED OUT. THE INSIDES OF A PIANO WERE RIPPED OUT AND SCATTERED ACROSS A FIELD WHILE THE PIANO SHELL REMAINED INSIDE THE BUILDING.  
-PIECES OF 2X8 PLANKING DRIVEN LIKE MISSILES INTO THE GROUND AND THROUGH THE WINDSHIELD OF A TRUCK  
SCORES OF  
-BARNS DEMOLISHED, TREES UPROOTED, AND BUILDINGS SHIFTED OFF THEIR FOUNDATIONS  
-TWIGS DRIVEN INTO THE WALLS OF A HOUSE



# WORKSHEET

IDTO 0696702

① ORIGIN  $x$  17536000  
 $y$  4820000

⑤ Standard Error  $S_x$   
 C1000

② LIFT-OFF  $x_1$  17556000  
 $y_1$  4829600

⑥ Standard Error  $S_y$   
 $l = 6000$   
 $w = 250$   
 R 354

③  $(x_1 - x) = 20000$

④  $(y - y_1) = 9600$

⑦ DAMAGE LENGTH

$L = [(x_1 - x)^2 + (y - y_1)^2]^{1/2}$  ⑧  $\alpha = \tan^{-1} \frac{|y - y_1|}{|x - x_1|}$

③ + ④  $\rightarrow r, \theta = 22184 \text{ m}$

$x \leftrightarrow y = 26^\circ$

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

⑤ + ⑥  $\rightarrow r, \theta = 1061 \text{ C}$

⑩  $\beta = \frac{\tan^{-1} S_L}{L}$

⑦ + ⑨  $\rightarrow r, \theta$   
 $x \leftrightarrow y = 3^\circ$

NE Quad  $\phi = 90 - \alpha$

NW Quad  $\phi = 270 + \alpha$

SW Quad  $\phi = 270 - \alpha$

SE Quad  $\phi = 90 + \alpha$

⑪  $\phi = 244$

# WORKSHEET

IDTO 0696701

① ORIGIN  $x$  17450450  
 $y$  4801300

⑤ Standard Error  $S_x$   
 C 1000

② LIFT-OFF  $x_1$  17482500  
 $y_1$  4820500

⑥ Standard Error  $S_y$   
 C 1000

③  $(x_1 - x) = 32050$

④  $(y - y_1) = 19200$

⑦ DAMAGE LENGTH

$L = [(x_1 - x)^2 + (y - y_1)^2]^{1/2}$  ⑧  $\alpha = \tan^{-1} \frac{|y - y_1|}{|x - x_1|}$

③ + ④  $\rightarrow r, \theta = 37361$

$x \leftrightarrow y = 31^\circ$

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

⑤ + ⑥  $\rightarrow r, \theta = 1414 C$

⑩  $\beta = \frac{\tan^{-1} S_L}{L}$

⑦ + ⑨  $\rightarrow r, \theta$   
 $x \leftrightarrow y = 2^\circ$

NE Quad  $\phi = 90 - \alpha$

NW Quad  $\phi = 270 + \alpha$

SW Quad  $\phi = 270 - \alpha$

SE Quad  $\phi = 90 + \alpha$

⑪  $\phi = 239^\circ$

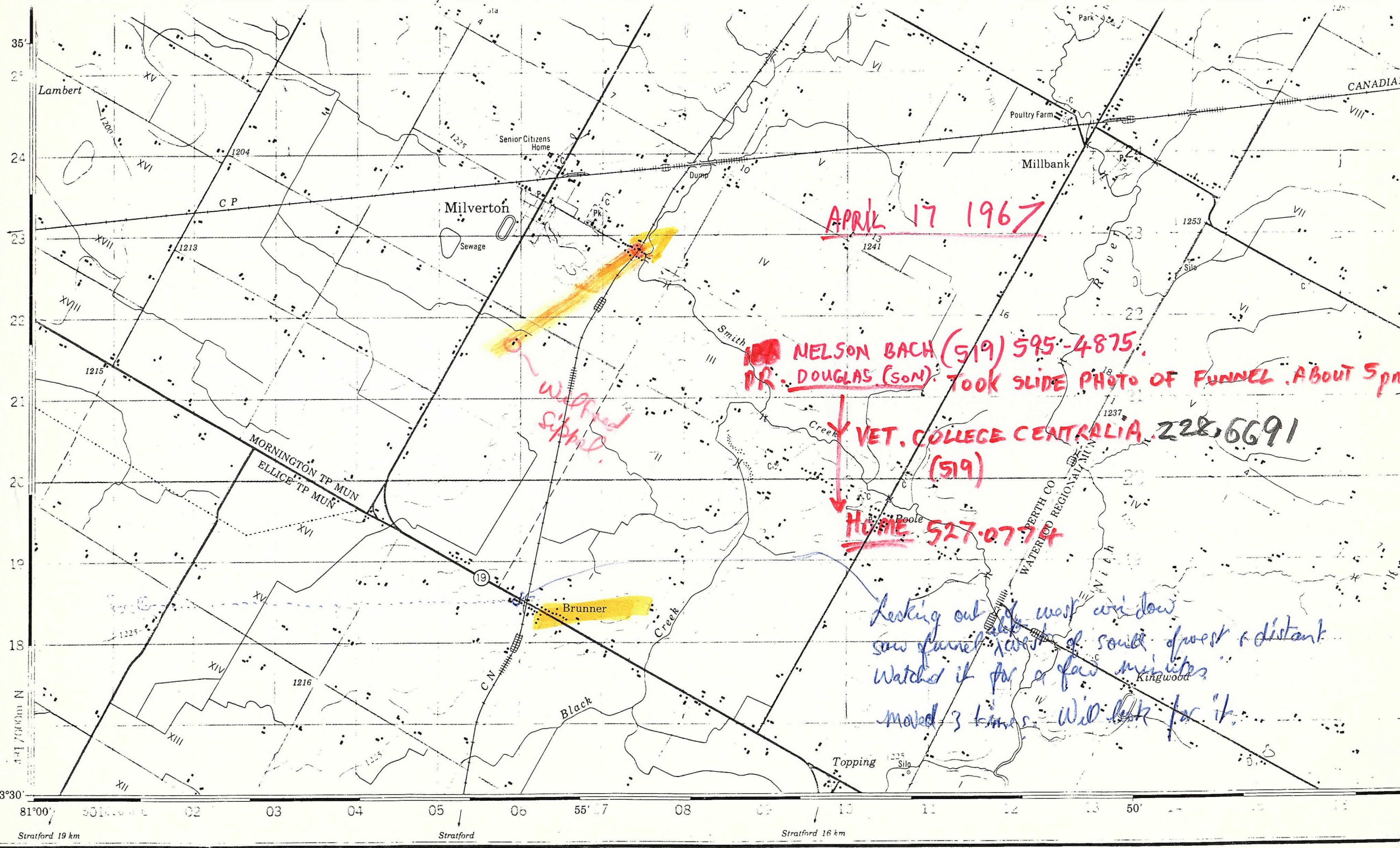
Conversation with Mrs NELSON BACH, MILVERTON, ONT.

(519) 595-4875, by P. Elmer Sept. 11 1980.

Mrs Nelson Bach, with her son Douglas, and other people saw a funnel cloud just west of BRUNNER about 5 pm, April 17 1967. It extended about half way down from the dark cloud base to the ground, and was observed spinning. It moved towards MILVERTON, and later Mrs Bach heard of a touchdown at the C.N.R. station, where a board fence was broken down.

27-509





APRIL 17 1967

NELSON BACH (519) 595-4875.  
PR. DOUGLAS (SON). TOOK SLIDE PHOTO OF FUNNEL ABOUT 5pm

W. P. P. P. P.  
S. P. P. P. P.

VET. COLLEGE CENTRALIA 228-6691  
(519)

HOME 527-0774

Looking out west window  
saw funnel west of some forest & distant  
watched it for a few minutes  
moved 3 times. Will look for it.



Phone conversations on Sept 5, 1980 with  
Glen Pepper <sup>(519) 345-2464</sup> lot 31, conc 1, Logan Tp; and Thomas  
Dorsey <sup>(519) 345-2953</sup> lot 19, conc 1, Hibbert Tp. re tornado on  
April 17, 1967.

Location 1. O'Reilly farm. Barn demolished  
(Dorsey).

Location 2. Kelly farm. Barn damaged (Dorsey)

Location 3. Cornelius Van der Pylt, lot 18 conc 2,  
Hibbert Tp. (519) 345-2667

Location 4. Dublin cemetery, monuments damaged  
(Dorsey)

Location 5. Donnelly farm. Joe Donnelly and  
his son trapped in barn. Barn collapsed,  
injuring Joe Donnelly who later died. (Pepper)

Location 6. Glen Pepper farm. many trees uprooted  
at the north end.

Location 7. Harold Meagher farm. East wall of  
house pushed completely out. Barn demolished  
(Pepper)

Location 8. Gordon Aiken farm. Barn damaged. No  
damage to house (Pepper)

Location 9. School house moved on foundation. It  
was condemned for school purposes (Pepper)

Location 10. McDougall farm. Barn demolished  
(Pepper).

After location 10, the tornado lifted according to  
Pepper.

Thomas Dorsey saw the funnel approaching from  
the south west, with debris falling from it.

TORNADO APRIL 17 1967

Conversation with MR HAROLD SMITH, HENSALL. (519)  
262-5648, by P. Elms, Sept 10/80.

MR Smith gave information on locations of properties on the tornado track from south of ZURICH to the Bruce Armstrong property.

A deep freezer was carried from the Marcel Vanneste residence to a bush some .75 Km away, (see map).



Tornado - April 14 1974.

Telephone conversation with MR JEROME MURRY  
LOT 33, CON 6 LOGAN TOWNSHIP, by P. Elmer. Sept 11 1980.  
(519) 345-2347.

Mr Murray said that he thought the  
funnel was aloft when it passed over his  
farm. Damage sustained was as follows:

A Renhouse roof was taken off  
Steps were removed from the house  
floor taken off silo roof.

Two trees broken down.

Tornado April 17 1967.

(From Mr Murray)

The farm of Mr Wolfe about 2 km  
S.E. of his property, had a <sup>small</sup> barn taken  
down.