

UPDATED

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

Date- Local: Monday, April 17th, 1967

UTC: Monday, April 17th, 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

Tornado F-Scale Assessment

Brad L. Rousseau

Tornado Data Production Assistant, Environment Canada

January 26th, 2011

Classification: Confirmed Tornado

Date: Monday, April 17th, 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.

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

Date- Local: Monday, April 17th, 1967

UTC: Monday, April 17th, 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

Tornado F-Scale Assessment

Brad L. Rousseau

Tornado Data Production Assistant, Environment Canada

January 26th, 2011

Classification: Confirmed Tornado

Date: Monday, April 17th, 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.

F=3 F=0 F=0 ONT

1. DATE AND TIME 17 APRIL 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 ④ MILVERTON 06967-11
 ② ST JACOBS 06967-02 ③ VENTY GUELPH 06967-03

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 DUAL 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; "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 (MOTHRALL SIZE)

10. TOTAL DAMAGE ESTIMATE ① \$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 ELICE TOWNSHIP CLERK NATAL MORGAN OF RR 2 GADSWILL 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 RFD AND CUN 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

$l = 6000$
 $w = 250$
 ⑥ Standard Error S_y
 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 $\phi = 90 - \alpha$

SE quad $\phi = 90 + \alpha$

NW Quad $\phi = 270 + \alpha$

SW Quad $\phi = 270 - \alpha$

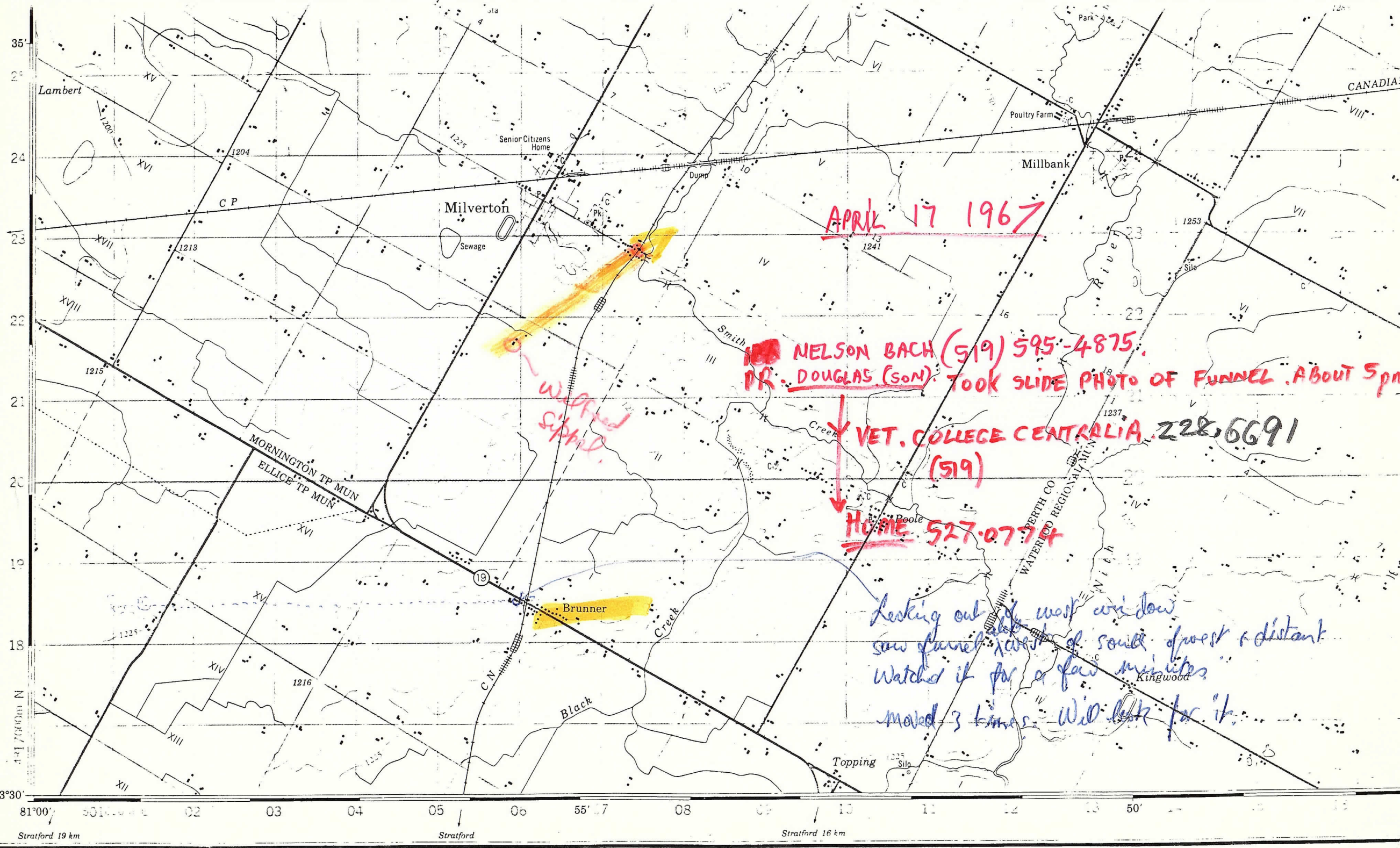
⑪ $\phi = 239^\circ$

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.

257-4809



APRIL 17 1967

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

WILSON
SIPPED

VET. COLLEGE CENTRALIA 228-6691
(519)

HOME 527-0774

Looking out my west window
saw funnel west of town & distant
Watched it for a few minutes
moved 3 times. Will look for it.

Phone conversations on Sept 5, 1980 with
Glen Pepper ^{(519) 345-2464} lot 31, conc 1, Logan Tp; and Thomas
Dorsey ^{(519) 345-2953} 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 Puyt, 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 Van Neste 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 ^{small} barn taken
down.