

UPD 761

**Possible Tornado
Elloida, Ontario
September 6, 1979**

Date- Local: Thursday, September 6th, 1979

UTC: Friday, September 7th, 1979

Time- Local: 2030

UTC: 0030

Location: Elloida

Region: Brockville - Leeds and Grenville

Classification: Possible Tornado

Category: -999

Casualties: None

Track Length: None available

Width: None available

Motion: None available

Damage Estimate: None available

F-Scale Rating: F1

Code: FS

Damage Survey: None

Spotter Reports: None

Other Documents:

Newspaper article

Map of possible tornado track

Newark summary sheet

Tornado F-Scale Re-Assessment

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January 31st, 2011

Classification: Possible Tornado

Date: Thursday, September 6th, 1979

Location: Eloida, Brockville - Leeds and Grenville Region

Original Assessment: F0

Re-Assessment: F1

F-Code: FS

Explanation of Assessment: A 16 ft x 50 ft farm silo was leveled constituting an F1 rating.

1. DATE AND TIME THUR SEPT 6, 1979 2030 EST

2. LOCATION OR PATH (attach map) FLORIDA (NR ATHENS) TO VCNTY LYN 0697920

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; "IT WAS ROARING"

9. LIST ANY ASSOCIATED PHENOMENA (Such as hail, vivid lightning heavy rain, no rain, etc.) ASSOCIATED WITH HURRICANE DAVID

10. TOTAL DAMAGE ESTIMATE \$ U 11. TOTAL DEATHS NONE

12. TOTAL INJURED NONE 13. TOTAL HOMELESS NONE

14. LIST ALL REFERENCES
BROCKVILLE RECORDER + TIMES, SEPT 7, 1979.
Telephone Interviews by M.S. Newark Jan 2, 1981

15. SUMMARIZE REMARKS PERTAINING TO (a) FUNNEL; (b) INTERESTING OR CAPRICIOUS EVENTS.
(a) no remarks (it was dark)
(b) Silo levelled, trees uprooted (they fell pointing southwards)

WORKSHEET

+DTO 0697920

① ORIGIN x 18423400
 y 4947600

⑤ Standard Error S_x

30C

② LIFT-OFF x_1 18439250
 y_1 4937100

⑥ Standard Error S_y

1000C

③ $(x_1 - x) = 15850$

④ $(y - y_1) = 10500$

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 $\rightarrow r, \theta = 19012 \text{ m}$

$x \leftrightarrow y = 34^\circ$

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

⑤ + ⑥ $\rightarrow r, \theta = 1000 \text{ C}$

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 $\phi = 304^\circ$