UPDATED

Possible Tornado
Arnprior - Ottawa, Ontario
June 11, 1973

Date- Local: Monday, June 11th, 1973
UTC: Monday, June 11th, 1973
Time- Local: 1630
UTC: 2030
Location: Arnprior - Ottawa
Region: Renfrew - Pembroke - Barry's Bay
Classification: Possible Tornado
Category: -999
Casualties: None
Track Length: 54510 m
Width: None available
Motion: 275
Damage Estimate: None available
F-Scale Rating: F1
Code: BS, TS
Damage Survey: None
Spotter Reports: None
Other Documents:
Newspaper article
Approximate tornado track
Newark summary sheet

Tornado F-Scale Re-Assessment

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

Classification: Possible Tornado
Date: Monday, June 11th, 1973
Location: Arnprior – Ottawa, Renfrew - Pembroke - Barry's Bay Region

Original Assessment: F0
Re-Assessment: F1
F-Code: BS, TS
Explanation of Assessment: Reports of many barn roofs removed which falls under F1 rating on the Wind Damage Rating table.

SJS

B

TORNADO PROJECT SUMMARY SHEET

F=0 ONT

1. DATE AND TIME MON JUNE 11, 1973 1530 EST

2. LOCATION OR PATH (attach map)
ARNPRIOR TO OTTAWA 0697316

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

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.)
GOLF BALL SIZED HAIL

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

12. TOTAL INJURED NONE 13. TOTAL HOMELESS U

14. LIST ALL REFERENCES

OTTAWA JOURNAL, JUNE 12, 1973

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

(a) no remarks

(b) roofs ripped off. Trees uprooted

WORKSHEET

+DTO 0697316

C1000

(1) ORIGIN x 18393800
y 5031700

(5) Standard Error S_x

C2500

(2) LIFT-OFF x_1 18448000
y_1 5026000

(6) Standard Error S_y

(3) $(x_1 - x)$ = 54200

(4) $(y - y_1)$ = 5700

(7) DAMAGE LENGTH

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

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

(3)+(4) [→r,θ] = 54499 m.

[x↔y] = 6°

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

(5)+(6) [→r,θ] = 2693 C.

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

(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 = 276°

Storm Date: Monday June 4 1973



From page one

Tornado lashes Valley

Thirty miles away in North Gower, high winds literally tore the village apart, uprooting trees, downing hydro lines and leaving a maze of wires across the main street.

Pembroke, 100 miles northwest of Ottawa, felt the first brunt of the severe electrical storm shortly after 4 p.m. With winds checked at 70 mph, the storm ripped 75-foot-tall elm and maple trees up by the roots, sending them crashing through large store windows and through the roofs of several city homes.

Arnprior was then battered, beginning at 4.30 p.m. Again, the high winds, rain and hail played havoc with homes and barns and ripped off many roofs in the area.

Ottawa's West End was struck about 5.09 p.m., as rain and hailstones described as the size of golfballs pummelled city streets.

A tree was uprooted at Alpine and Henely Roads, an Emergency Measures Organization alarm sounded in the Mooneys Bay area; telephone and hydro lines were knocked out; and scores of basements flooded.

Marcel Lebrun, assistant superintendent of the city's engineering branch and water works, said about 80 homes had been reported with flooded basements.

"Extra work crews were sent out to pump water from about 40 basements and the rest will be done first thing Tuesday," he said.

"The flooding is not unusual when you get so much rain in so short a time," said Mr. Lebrun.

George Moulds of 339 Winona Ave. had a "personal lake" in his backyard, where once a garden grew.

And just west of the Moulds residence on Shillington Avenue, small boat owners could be seen trying out their small craft in the backwash of the overtaxed sewers.

At the Simpsons-Sears store in the Carlingwood Shopping Plaza, storm sewers were unable to handle the torrential rains and water backed up into the main floor.

Lyle Winter, operating superintendent at the store, said about a half-inch of water flooded three departments but did not cause any damage to merchandise.

Across the Ottawa River in Aylmer, the high winds littered leaves and small branches over a wide area.

And like the leaves, hundreds of stalled cars and trucks were littered across the city, the result of unsuspecting drivers driving a little too fast through water over their bumpers.

Ottawa Hydro reported several transformers knocked out by lightning in the west and south ends of the city.

L. L. Coulter, chairman of Ottawa Hydro, said, "this was the first severe electrical storm of the year. We put out extra crews who had most sections of the city affected by the storm back in service within hours."

Bell Canada was also hard hit, when falling trees pulled down lines in the Alta Vista area.

Ottawa's largest taxi firm, Blue Line, was without its main telephone switchboard for more than four hours when a main cable was cut.

Ontario Hydro said the valley area incurred the storm's worst wrath.

No high tension lines were knocked out, but many low tension lines were reported down and being worked on throughout the night.

An Ontario Hydro spokesman said most of the valley would be restored with power by today.

An Ottawa-bound Vancouver motorist, Alex Simpson, who drove on the heels of the storm between Mattawa and Pembroke, said at times "it was like driving through the base of Niagara Falls."