B

TORNADO PROJECT SUMMARY SHEET

F=1 ONT

1. DATE AND TIME FRI JUNE 9, 1950 LATE AFTERNOON

2. LOCATION OR PATH (attach map)
WINDSOR 0695002

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.)

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

12. TOTAL INJURED AT LEAST 6 (MOST BY FLYING GLASS) 13. TOTAL HOMELESS U

14. LIST ALL REFERENCES
GLOBE & MAIL, TORONTO JUNE 10, 1950

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

(a) no remarks

(b) Trees uprooted, roofing material torn from industrial building. 16 foot boat blown 50 yards from the water of the Detroit river and across street into backyard of a house. In Detroit, gas pumps lifted from their moorings and two garages moved from their foundations.

WORKSHEET

IDTO 0695002

(1) ORIGIN x 17335200
y 4686300

(2) LIFT-OFF x_1 17339700
y_1 4689400

(3) $(x_1 - x)$ = 4500

(4) $(y - y_1)$ = 3100

(5) Standard Error S_x C 500

(6) Standard Error S_y C500

(7) DAMAGE LENGTH

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

(3)+(4) [→r,θ] = 5464

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

[x↔y] = 35°

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

(5)+(6) [→r,θ] = 70.7 m

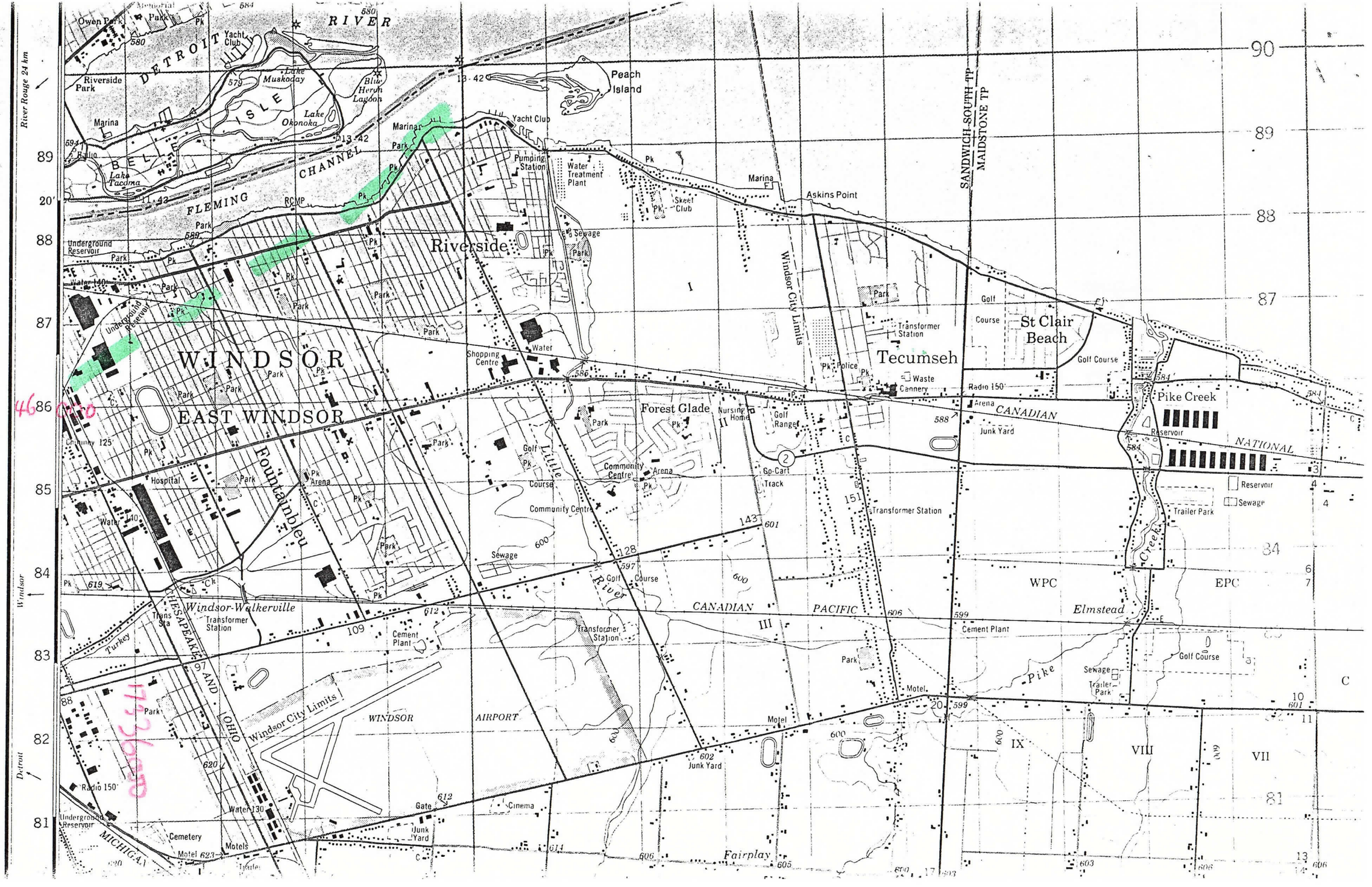
(10) $\beta = \dfrac{\tan^{-1} S_L}{L}$

(7)+(9) [→r,θ]
[x↔y] = 7°

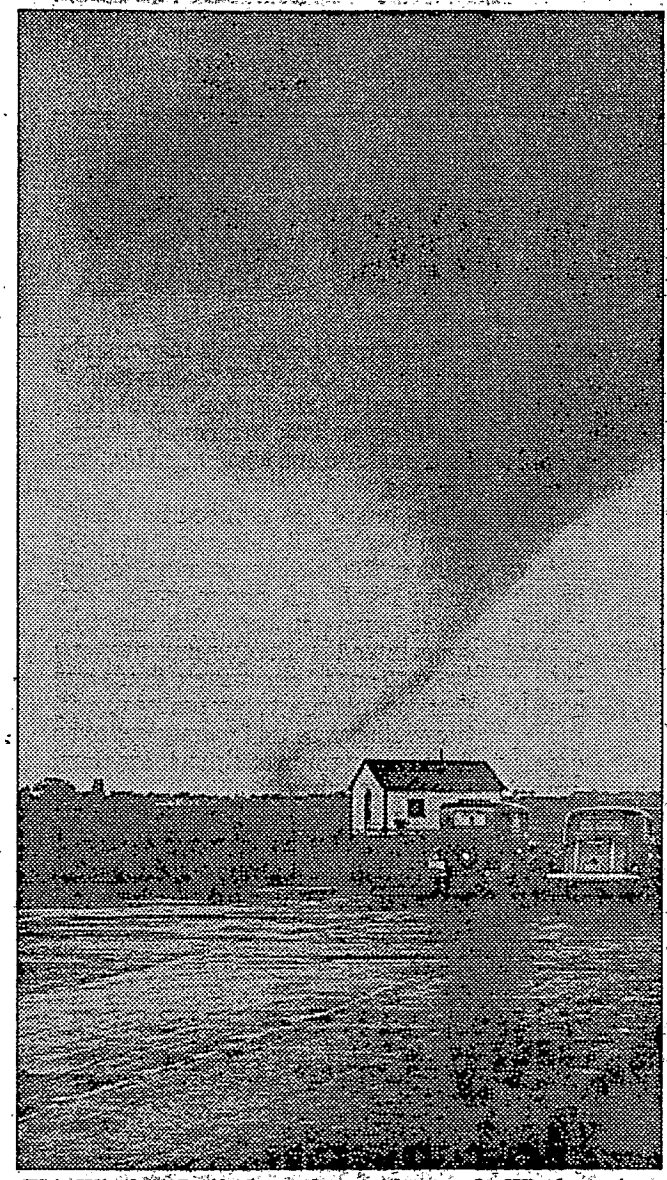
NE Quad $\phi = 90 - \alpha$
NW Quad $\phi = 270 + \alpha$
SW quad $\phi = 270 - \alpha$

SE quad $\phi = 90 + \alpha$

(11) ϕ = 235°



DETROIT RIVER
Owen Park
Memorial Park
Yacht Club
Riverside Park
Lake Muskoday
Blue Heron Lagoon
Lake Okonoka
Lake Tacoma
BELLE ISLE
FLEMING CHANNEL
Marina
Peach Island
Yacht Club
Pumping Station
Water Treatment Plant
Skeet Club
Marina
Askins Point
SANDWICH-SOUTH TP
MAIDSTONE TP
Riverside
Sewage
Underground Reservoir
Water 140
WINDSOR
EAST WINDSOR
Shopping Centre
Water
Windsor City Limits
Golf Course
St Clair Beach
Transformer Station
Tecumseh
Police
Waste
Cannery
Radio 150
Arena
Junk Yard
Pike Creek
Reservoir
CANADIAN NATIONAL
Forest Glade
Nursing Home
Golf Range
Go-Cart Track
Community Centre
Arena
Little River
Fountainbleu
Hospital
Chimney 125
Transformer Station
Trailer Park
Sewage
Golf Course
Windsor-Walkerville
Transformer Station
Cement Plant
CANADIAN PACIFIC
WPC
EPC
Elmstead
Cement Plant
Golf Course
Pike Creek
Sewage
Trailer Park
Turkey
CHESAPEAKE AND OHIO
Windsor City Limits
WINDSOR AIRPORT
Motel
Junk Yard
Radio 150
Underground Reservoir
Water 130
Gate
Cinema
Cemetery
Motels
Motel
MICHIGAN
Fairplay
River Rouge 24 km
Windsor
Detroit



This Windsor Daily Star photo, taken at the Windsor airport, shows the legendary June 17, 1946 twister as it lays waste to the Walker Road area. It cut a swath about 91 metres wide and 56 km long, killing 17 people and injuring more than 200. The June 18 issue of The Star, written by candlelight, was printed by The Detroit News. Under the masthead were news and photos gathered by staff of both papers. The Star published an extra edition from its own plant later in the day.

Star Library photo

Chronology of twisters to hit area

Tornadoes to hit city

DATE	TIME	FORCE
July 16, 1980	8:36 a.m.	F2
April 3, 1974	8:10 p.m.	F3
June 25, 1958	2 p.m.	F1
May 12, 1956	5:45 p.m.	F2
June 9, 1950	5 p.m.	F1
March 28, 1948	1:42 p.m.	F2
June 27, 1946	2:30 p.m.	F1
June 17, 1946	6 p.m.	F4
June 16. 1946	7:17 p.m.	F1

(Five of the nine touching down in Windsor ranged from tornadoes with considerable, serious to devastating damage. The remaining four were rated F1, with moderate damage reported.)

Essex County/Pelee Island tornadoes

June 28, 1994, time unavailable, Gosfield South Township
Aug. 19, 1991, 6 p.m., Essex
July 7, 1991, 8 p.m., Harrow
June 20, 1971, 7:30 p.m., McGregor
July 4, 1969, 5:30 p.m., near Harrow
July 4, 1969, 5:30 p.m., Amherstburg
June 27, 1969, 2 p.m., near Leamington
June 18, 1962, 3 p.m., near Wheatley
June 18, 1962, 3 p.m., Kingsville/Leamington area
June 25, 1958, 2:52 p.m., near Kingsville
April 5, 1957, 3 p.m., Pelee Island
July 14, 1946, 3 p.m., Belle River
June 16, 1946, 8:30 p.m., McGregor
July 1, 1944, 2 a.m., Tilbury

(The intensity of all tornadoes in Essex County and Pelee Island were rated as F1, with the exception of Tilbury in 1944, which was rated F2.)

Source: Environment Canada

TORNADO SAFETY TIPS

Tornado Watch: Environment Canada issues a watch when conditions are favorable for the development of tornadoes. A watch typically covers a large area and states there is a risk of a severe thunderstorm and tornadoes developing. Usually issued later in the day, watches last between three and six hours, but can be extended. People living in the areas affected should put away small objects, such as garbage cans and bicycles, that could become dangerous missiles in a high wind. Children should be kept under

quickly, it may be issued by Environment Canada from only 30 minutes – or up to a maximum of two hours – before a storm hits. More specific than a watch, people in the area should take shelter immediately.

Telltale signs of a tornado:

- A humid day, often with plenty of sunshine before the storm
- Clouds form in the shape of an anvil