(AUG 1 1980 PE.

A

TORNADO PROJECT SUMMARY SHEET

F=1

ONT

1. DATE AND TIME 1145 E.S.T THURS JULY 16 1959

2. LOCATION OR PATH (attach map) 1 MILE EAST OF TILBURY FROM 230° - SINUOUS PATH TO NE. 06959-04

3. PATH LENGTH ☐ NOT KNOWN ☒ 2 Km <1mi; ☐ 1-4mi; ☐ 5-10mi; ☐ 11-50mi; ☐ LENGTH IF>50mi

4. PATH WIDTH [illegible] 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.) ONLY WIND MENTIONED

10. TOTAL DAMAGE ESTIMATE $10,000 11. TOTAL DEATHS NONE

12. TOTAL INJURED NONE 13. TOTAL HOMELESS NONE

14. LIST ALL REFERENCES WINDSOR STAR JULY 17 1959

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

ALVIN MALOTT, R.R.1 TILBURY, TOWNSHIP ASSESSOR WAS ON HIS WAY HOME WHEN HE NOTICED A FUNNEL DIP DOWN FROM A HEAVY BLACK CLOUD. "IT SEEMED TO BE ABOUT 150' ACROSS AT THE BOTTOM TAPERING OUT TO ABOUT 500' AT THE CLOUD" "IT WAS TWISTING AND DIPPING UP AND DOWN. THE FUNNEL THEN DIPPED INTO THE LAWRENCE ST JEAN CORNFIELD AND LOOKED LIKE A CLOUD OF SMOKE. THEN IT HIT THE BARN AND THE SHINGLES AND BOARDS FLEW THROUGH THE AIR LIKE STRAWS AND THE BARN LIFTED AND THEN COLLAPSED.

A COMBINE IN THE BARN WAS DEMOLISHED AND PATCHES OF CORN TORN OUT OF A NEARBY FIELD.

THE FUNNEL MISSED THE HOUSE BY ONLY 25' AS IT TORE ITS ERRATIC COURSE ACROSS THE FARM.

APPARENTLY LIFTED SHORTLY AFTER HITTING THE FARM

PHONE CONVERSATION WITH MR LAWRENCE ST. JEAN, AUG 1ST 1980. (P. ELMS). SEE OVER

WORKSHEET

IDTO 0695904

(1) ORIGIN x 17383500
y 4678600

(5) Standard Error S_x
C 500

(2) LIFT-OFF x_1 17384300
y_1 4679800

(6) Standard Error S_y
C 500

(3) $(x_1 - x)$ = 800

(4) $(y - y_1)$ = 1200

(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) $\boxed{\Rightarrow r,\theta}$ = 1442 m

$\boxed{x \leftrightarrow y}$ = 56.3°

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

(5)+(6) $\boxed{\rightarrow r,\theta}$ = 707

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

(7)+(9) $\boxed{\rightarrow r,\theta}$
$\boxed{x \leftrightarrow y}$ = 26°

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

SE quad $\phi = 90 + \alpha$

(11) ϕ = 214°

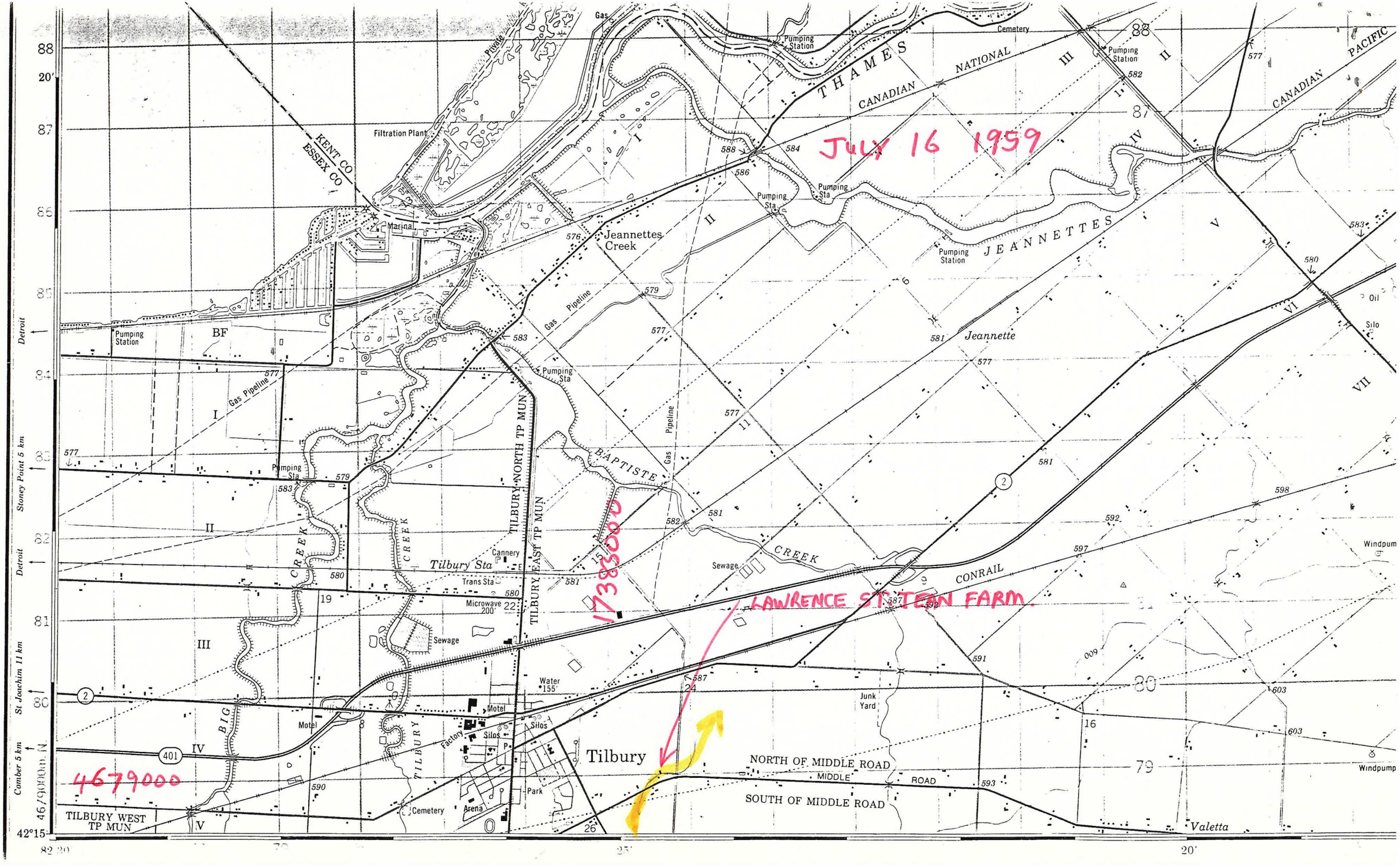
The following obtained in a telephone conversation with Mr ST. JEAN. on Aug 1 1980. by P. Elms.

Mr ST JEAN observed the tornado forming just SW of his farm. He was familiar with tornadoes from his experience in Western Canada. He noticed a tomato basket being whirled around in the funnel, which he stated was only about 30 feet in diameter. It followed a zig-zag, sinuous track from just south of highway 98 and after crossing the highway came towards his farm. He took shelter in a ditch and watched the funnel. First it lifted the roof off his barn, then the remaining walls were twisted, carried away, and blown to pieces. He said that 2×6's were being whirled in the air. One 2×6 penetrated a beam, in an old farm nearby, to a depth of 6". Some beams in the demolished barn were black walnut which Mr St Jean sold for a good cash price.

His insurance policy had been diminishing each year, and had just dropped in value in the spring. He only got $2,800 for a barn that was worth $8,000. (1959).

There was no other damage done and the funnel lifted shortly after striking his farm.

The house, only 25' away was undamaged.


JULY 16 1959
LAWRENCE ST. JEAN FARM
1738500
4679000
THAMES
CANADIAN NATIONAL
CANADIAN PACIFIC
KENT CO
ESSEX CO
Filtration Plant
Marina
Jeannettes Creek
JEANNETTES
Jeannette
BAPTISTE
CREEK
Tilbury Sta
Cannery
Trans Sta
Microwave 200'
Sewage
Water 155'
Motel
Silos
Factory
Park
Arena
Cemetery
Tilbury
Junk Yard
CONRAIL
NORTH OF MIDDLE ROAD
MIDDLE ROAD
SOUTH OF MIDDLE ROAD
Valetta
TILBURY WEST TP MUN
TILBURY NORTH TP MUN
TILBURY EAST TP MUN
BIG CREEK
Gas Pipeline
Pumping Station
Pumping Sta
Cemetery
Oil
Silo
Windpump
Detroit
Stoney Point 5 km
St Joachim 11 km
Comber 5 km
46/9000m.N.
42°15'
82°30'
20'
25'
20'

...ister to hit the ... Florida coast since ... left scores of ... homes in wreckage ... tangles of tree trunks, ... and overturned auto-mobiles.

The storm leap-frogged over a 12-mile path, driving hun-

See AT LEAST—Page 6

12-45 pm pm THURS JULY 16 1959

'Baby Twister Hits Kent

$10,000 Damage As Barn Razed By Sudden Gust

The Star's Kent County Bureau

TILBURY — A "baby tornado" ripped across a Tilbury East farm Thursday afternoon, causing damage estimated at $10,000 before blowing itself out.

The twister ripped across the Lawrence St. Jean farm, Highway 98, a mile east of Tilbury, destroying a 40-by-70-foot frame barn, demolishing a combine that was in the building, and tearing out big patches of corn in a nearby field.

Although the entire St. Jean family was at home, they escaped injury. The twister fun-

See TWISTER—Page 6

Got #2,8,00
Worth #8000
Beach Walnut

LAWRENCE ST JEAN.
1452-519 ~~682-1880~~
AUG 5th 1980 -682-1808

The Windsor Star Library

...ine flood claimed the life ...

Twister Ravages Section of Miami

JUN 18 1953

At Least 100 Injured, Warn of More Tornadoes

MIAMI, Fla., (AP)—The greater Miami area's first tornado in 10 years struck Wednesday night and at least 100 persons were injured, some of them severely.

"Then it struck. Bottles flew through the air. The cash register—it takes two men to lift

"You just don't get that kind of damage from a straight wind," Paul Moore, a forecaster, said in identifying the vicious storm.

The weather bureau warned

Hits Farm At Tilbury

nel missed their house by only 25 feet as it tore its erratic course across the farm.

Alvin Malott, R. R. 1, Tilbury, township assessor, gave a graphic account of the short-lived storm. He was on his way home at about 12.45 p.m., when he noticed a funnel dip down from a heavy overhanging black cloud.

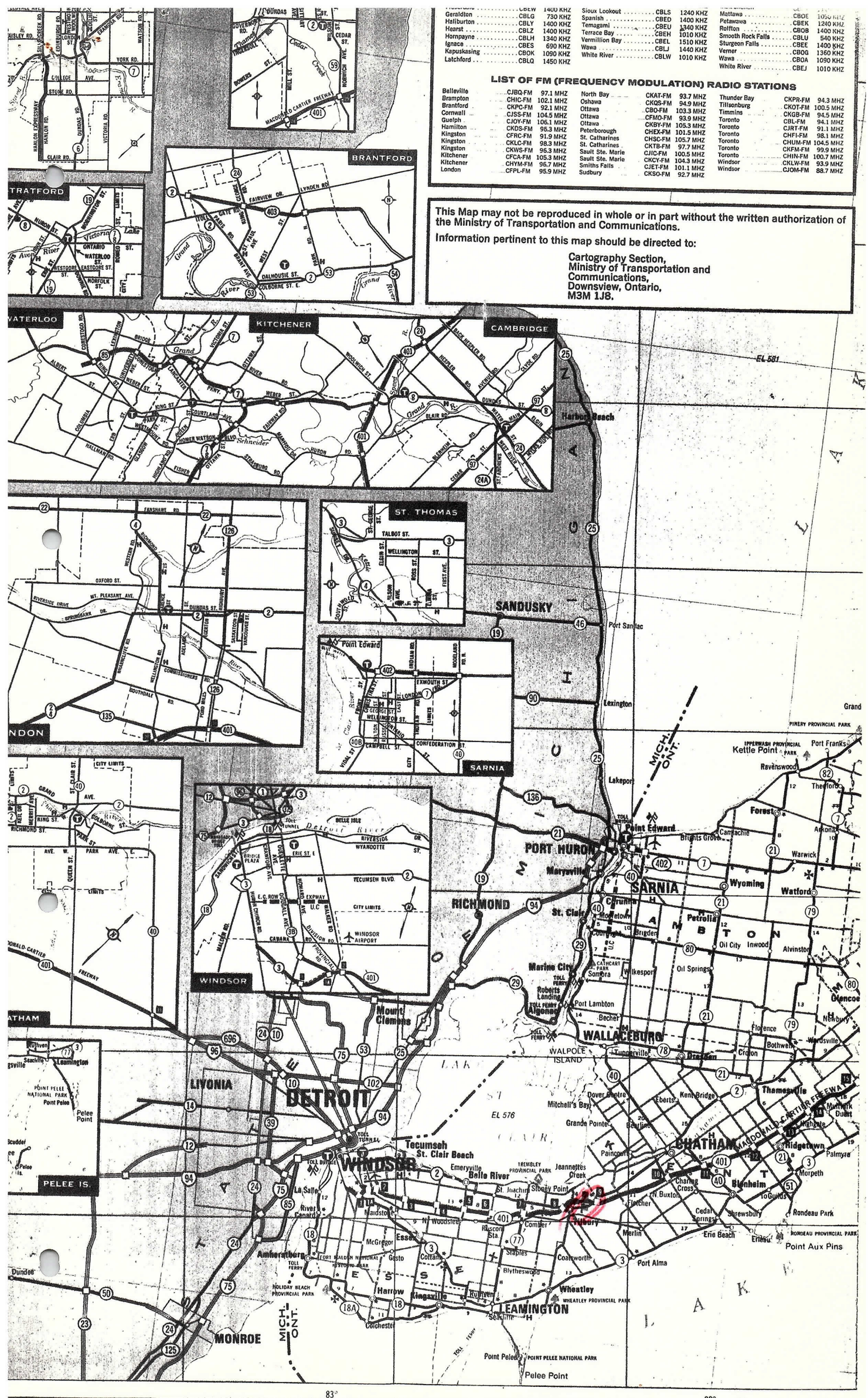
"It seemed to be about 150 feet across at the bottom, tapering out to about 500 feet at the cloud," he said. "It was twisting and dipping up and down, and hard to measure."

As the township official watched, the funnel dipped into the St. Jean cornfield. He said, "It looked like a cloud of smoke."

"Then it hit the barn, and the shingles and boards flew through the air like straws, and the barn lifted and then collapsed," he declared.

Mr. St. Jean, working in the barnyard with his tractor, had an even closer view. He saw the funnel approaching, felt a gusty wind, and drove his tractor into another farm building, at the same time shouting for the St. Jean children to take shelter.

The youngsters, Carol Sue 10, Bruce 7, and their cousin, Susan St. Jean 9, Detroit, visiting at the farm, all saw the twister hit the barn as they ran for the house.


Geraldton CBEW 1400 KHZ
Haliburton CBLY 1400 KHZ
Hearst CBLZ 1400 KHZ
Hornpayne CBLH 1340 KHZ
Ignace CBES 690 KHZ
Kapuskasing CBOK 1090 KHZ
Latchford CBLQ 1450 KHZ
Sioux Lookout CBLS 1240 KHZ
Spanish CBED 1400 KHZ
Temagami CBEU 1340 KHZ
Terrace Bay CBEH 1010 KHZ
Vermilion Bay CBEL 1510 KHZ
Wawa CBLJ 1440 KHZ
White River CBLW 1010 KHZ
Mattawa CBOE 1090 KHZ
Petawawa CBEK 1240 KHZ
Rolfton CBOB 1400 KHZ
Smooth Rock Falls CBLU 540 KHZ
Sturgeon Falls CBEE 1400 KHZ
Verner CBOG 1360 KHZ
Wawa CBOA 1090 KHZ
White River CBEJ 1010 KHZ
LIST OF FM (FREQUENCY MODULATION) RADIO STATIONS
Belleville CJBQ-FM 97.1 MHZ
Brampton CHIC-FM 102.1 MHZ
Brantford CKPC-FM 92.1 MHZ
Cornwall CJSS-FM 104.5 MHZ
Guelph CJOY-FM 106.1 MHZ
Hamilton CKDS-FM 95.3 MHZ
Kingston CFRC-FM 91.9 MHZ
Kingston CKLC-FM 98.3 MHZ
Kingston CKWS-FM 96.3 MHZ
Kitchener CFCA-FM 105.3 MHZ
Kitchener CHYM-FM 96.7 MHZ
London CFPL-FM 95.9 MHZ
North Bay CKAT-FM 93.7 MHZ
Oshawa CKQS-FM 94.9 MHZ
Ottawa CBO-FM 103.3 MHZ
Ottawa CFMO-FM 93.9 MHZ
Ottawa CKBY-FM 105.3 MHZ
Peterborough CHEX-FM 101.5 MHZ
St. Catharines CHSC-FM 105.7 MHZ
St. Catharines CKTB-FM 97.7 MHZ
Sault Ste. Marie CJIC-FM 100.5 MHZ
Sault Ste. Marie CKCY-FM 104.3 MHZ
Smiths Falls CJET-FM 101.1 MHZ
Sudbury CKSO-FM 92.7 MHZ
Thunder Bay CKPR-FM 94.3 MHZ
Tillsonburg CKOT-FM 100.5 MHZ
Timmins CKGB-FM 94.5 MHZ
Toronto CBL-FM 94.1 MHZ
Toronto CJRT-FM 91.1 MHZ
Toronto CHFI-FM 98.1 MHZ
Toronto CHUM-FM 104.5 MHZ
Toronto CKFM-FM 99.9 MHZ
Toronto CHIN-FM 100.7 MHZ
Windsor CKLW-FM 93.9 MHZ
Windsor CJOM-FM 88.7 MHZ
This Map may not be reproduced in whole or in part without the written authorization of the Ministry of Transportation and Communications.
Information pertinent to this map should be directed to:
Cartography Section,
Ministry of Transportation and Communications,
Downsview, Ontario,
M3M 1J8.
BRANTFORD
STRATFORD
WATERLOO
KITCHENER
CAMBRIDGE
ST. THOMAS
SANDUSKY
SARNIA
WINDSOR
PORT HURON
RICHMOND
WALLACEBURG
CHATHAM
LIVONIA
DETROIT
WINDSOR
Mount Clemens
Tecumseh
St. Clair Beach
Belle River
LEAMINGTON
KINGSVILLE
HARROW
AMHERSTBURG
ESSEX
COTTAM
MONROE
PELEE IS.
Point Pelee
Pelee Point
Harbor Beach
Port Sanilac
Lexington
Kettle Point
Ravenswood
Forest
Watford
Wyoming
Petrolia
Oil City
Oil Springs
Alvinston
Glencoe
Marine City
Sombra
Port Lambton
Algonac
Walpole Island
Thamesville
Ridgetown
Blenheim
Chatham
Tilbury
Wheatley
Erie Beach
Erieau
Point Aux Pins
Rondeau Park
Port Alma
Leamington
Kingsville
Harrow
Amherstburg
Essex
Cottam
Tecumseh
St. Clair Beach
Belle River
Emeryville
Jeannettes Creek
Stoney Point
Tilbury
Merlin
Wheatley
Pelee Point
Point Pelee
Lake Huron
Lake St. Clair
Detroit River
Thames River
Grand River
Canada
U.S.A.
MICH.
ONT.
EL 581
EL 576
83°
82°
15
16
17

METEOROLOGICAL BRANCH DEPARTMENT OF TRANSPORT-CANADA

CLIMATOLOGICAL STATION REPORT

61-4590-1

STATION Leamington

Time of Observation 6 30 a.m. 6 p.m. Prov. Ontario

Observer B. E. Ellis Month July 1959

TIME OF OBSERVATION	TEMPERATURE (°F) Maximum Observed	Maximum For Day	Minimum Observed	Minimum For Day	At Observation	Grass Minimum	PRECIPITATION (inches) Rain Measured	Rain For Day	Snow Measured	Snow For Day	Total For Day	TIMES OF PRECIPITATION (Calendar day) Began	Ended	DEPTH OF SNOW ON GROUND	WEATHER (Calendar Day) Thunderstorm	Freezing Rain	Hail	REMARKS
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
a.m.					70													
p.m.	83	83		M	72		.72	.72			.72	15·00	16·00		X			Partly cloudy
a.m.	72		57		57													
p.m.	72	72		M	72													mostly clear
a.m.	72				68													
p.m.	78	78		M	76													clear
a.m.	76				73													
p.m.	81	81		M	79													"
a.m.	79				75													
p.m.	81	81		M	79			·03			·03							mostly "
a.m.	79				70		·03					3 00	3 30		X			
p.m.	76	76		M	71													" "
a.m.	71				66													
p.m.	76	76		M	74													" "
a.m.	74				71													
p.m.	82	82		M	79													Clear
a.m.	79				69													
p.m.	82	82		M	74													mostly "
a.m.	79				69													
p.m.	80	80		M	76		T	·29			·29	in night			X			" "
a.m.	76		60		62		·29											
p.m.	75	75	62	60	72		T	·03			·03	15·30			X			partly cloudy
a.m.	72		58		63		·03					18·00	18·30					
p.m.	75	75	63	58	72													mostly clear
a.m.	72		63		63													
p.m.	82	82	63	63	78													" "
a.m.	78		61		64													
p.m.	79	79	64	61	77													clear
a.m.	77		60		63													
p.m.	79	79	63	60	76													mostly "
a.m.	76		64		67													
p.m.	83	83	67	64	80										X			" (Tilbury small twister)
a.m.	80		70		73													
p.m.	86	86	73	70	80													mostly clear
a.m.	80		72	72	73													
p.m.	83	83	73	72	72		·60	·72			·72	15 30	in night		X			partly cloudy
a.m.	72		64		67		·12											
p.m.	78	78	67	64	67			·03			·03	in night						mostly clear
a.m.	67		64		66		·03											
p.m.	76	76	66	64	74		·03	·03			·03	7·30	8·30					partly cloudy
a.m.	74		61		67													
p.m.	79	79	67	61	76													mostly clear
a.m.	76		70		74													
p.m.	83	83	74	70	81													partly cloudy
a.m.	81		75		75													
p.m.	81	81	75	75	78		·04	·12			·12	9·00 intermittent			X			" "
a.m.	78		70		70		·08					in night						
p.m.	83	83	70	70	80													" "
a.m.	80		58		61													
p.m.	72	72	61	58	68													" "
a.m.	68		60		63													
p.m.	78	78	63	60	76													mostly clear
a.m.	76		66		69													
p.m.	80	80	69	66	78			·11			·11							" "
a.m.	78		69		70		·11					6·15	8·00					
p.m.	83	83	70	69	80		·04	·04			·04				X			partly cloudy
a.m.	80		68		70							6·00	11·00					
p.m.	79	79	70	68	77		1·89	1·89			1·89				X			" "
a.m.	77		73		75													
p.m.	83	85	75	73	75													" "
a.m.	85		68		68													
p.m.	82	82	68	68	78													mostly clear
a.m.	78																	
SUMS	2472		—	—			4·01				4·01							
MEANS	79·7																	

No of Days with 9

TEMPERATURE EXTREMES

Highest 86 Date July 17th

Lowest 57 Date " 2nd

TEMPERATURE

Mean Max. 79

Mean Min.

Mean

230