A

TORNADO PROJECT SUMMARY SHEET

F=2 ONT

1. DATE AND TIME: AUG 8, 1977 1300 EST

2. LOCATION OR PATH (attach map)
VCNTY BEAMSVILLE 0697714

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

4. PATH WIDTH 300 ft. 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 $1 MILLION 11. TOTAL DEATHS NONE (5500 chicks)

12. TOTAL INJURED 2. 13. TOTAL HOMELESS 5 FAMILIES

14. LIST ALL REFERENCES
THE SPECTATOR, HAMILTON, AUG 9, 10 1977
NIAGARA FALLS REVIEW AUG 10, 1977
ST CATHERINES STANDARD AUG 9, 1977 MARCH 30, APR 1, AUG 5, 1978
LINCOLN POST EXPRESS AUG 10, 1977
FIELD INVESTIGATION AND INTERVIEWS BY M. J Newark + P J Elms AUG 9, 1977

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

(a) Funnel clearly seen by many eyewitnesses, in one case it was described as a heavy grey colour, vertical, with wide top and a narrow tip about 10 m wide which was touching the ground. Ken Staley saw twin funnels. The secondary funnel was about 450 m north of the main funnel and was observed lifting up and down. Evidence of its path was found along about a 1/4 mile track of broken and uprooted trees.

WORKSHEET

IDTO 0697714

① ORIGIN x 17618800
y 4774950

② LIFT-OFF x_1 17630000
y_1 4775500

③ $(x_1 - x)$ = 11200

④ $(y - y_1)$ = 550

⑤ Standard Error S_x C30

⑥ Standard Error S_y C500

⑦ DAMAGE LENGTH

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

③+④ [→r,θ] = 11213

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

[x↔y] = 3°

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

⑤+⑥ [→r,θ] = 501 C

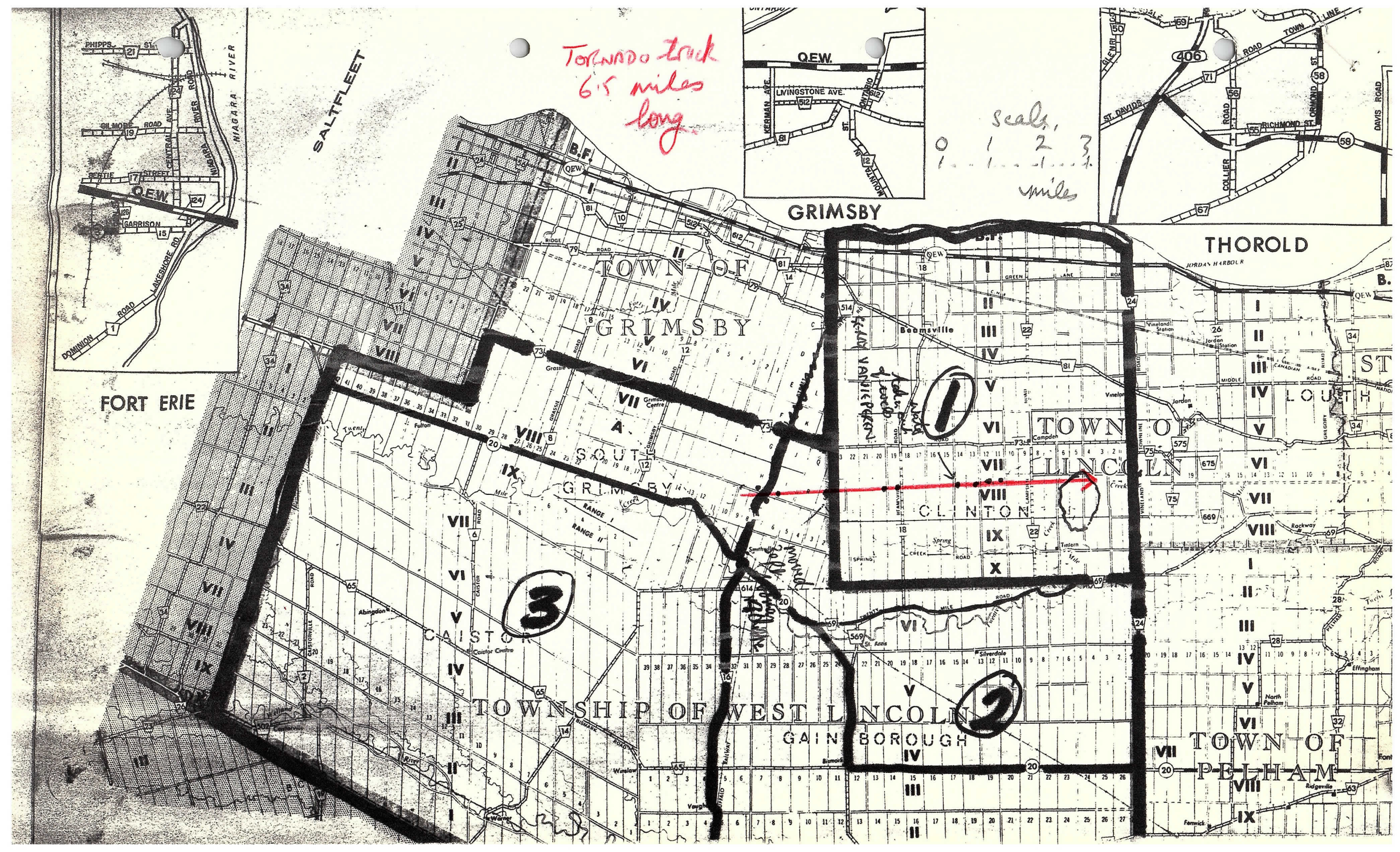
⑩ $\beta = \frac{\tan^{-1} S_L}{L}$

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 = 267°

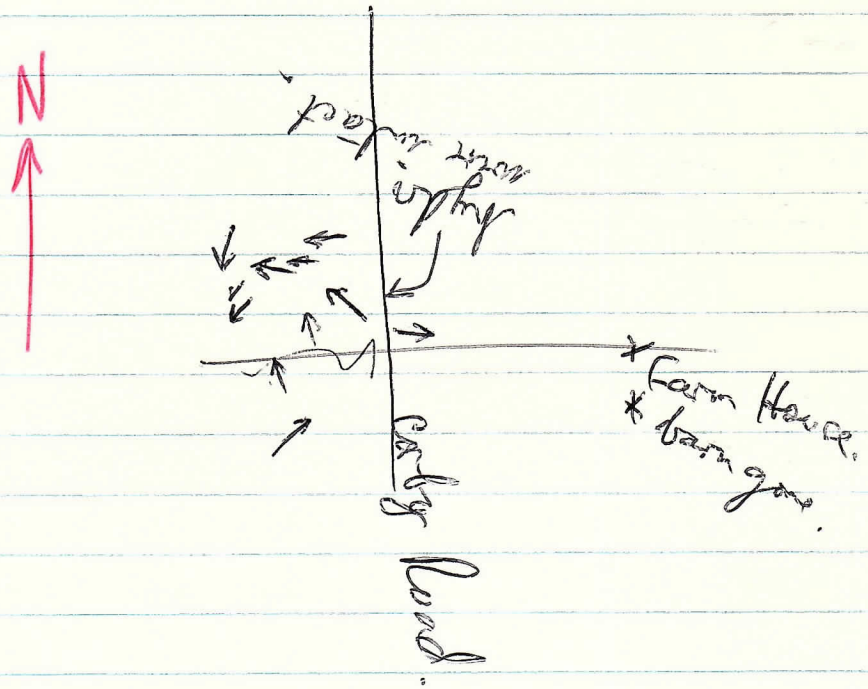

Tornado track
6.5 miles
long
scale
0 1 2 3
miles
FORT ERIE
PHIPPS ST.
SILVER MOPE ROAD
CENTRAL AVE.
NIAGARA RIVER ROAD
NIAGARA RIVER
BERTIE STREET
QEW
GARRISON
LAKESHORE RD.
DOMINION ROAD
SALTFLEET
GRIMSBY
QEW
LIVINGSTONE AVE.
KERMAN AVE.
ONTARIO ST.
MAIN ST.
THOROLD
JORDAN HARBOUR
TOWN LINE
ST. DAVIDS ROAD
RICHMOND ST.
ORMOND ST.
DAVIS ROAD
COLLIER ROAD
TOWN OF GRIMSBY
SOUTH GRIMSBY
TOWN OF LINCOLN
CLINTON
LOUTH
TOWNSHIP OF WEST LINCOLN
CAISTOR
GAINSBOROUGH
TOWN OF PELHAM
Beamsville
Jordan
Campden
Vineland
Smithville
Abingdon
Silverdale
Effingham
Ridgeville
Fenwick
1
2
3

(6) (a) Mountain Road (about 1 mi south of Fly Rd)
damage path 300 ft in front of Zuckerman Farm.
Hit at 2:10 pm. 120'x30' concrete block bldg roof
lifted off. Hundreds of chickens inside mostly
Vegetation flattened in south-southeast direction
Debris carried eastward onto a small nearby
house with a 2'x6" plank pierced it.
Ken Staley at home with family when tornado
went over. Saw dark funnel from front door carrying
away everything in its path about 18 ft wide
and weaving back and forth.

(b) in bush opposite. trees broken off halfway; uprooted,
Some as big as 2½- in diameter.

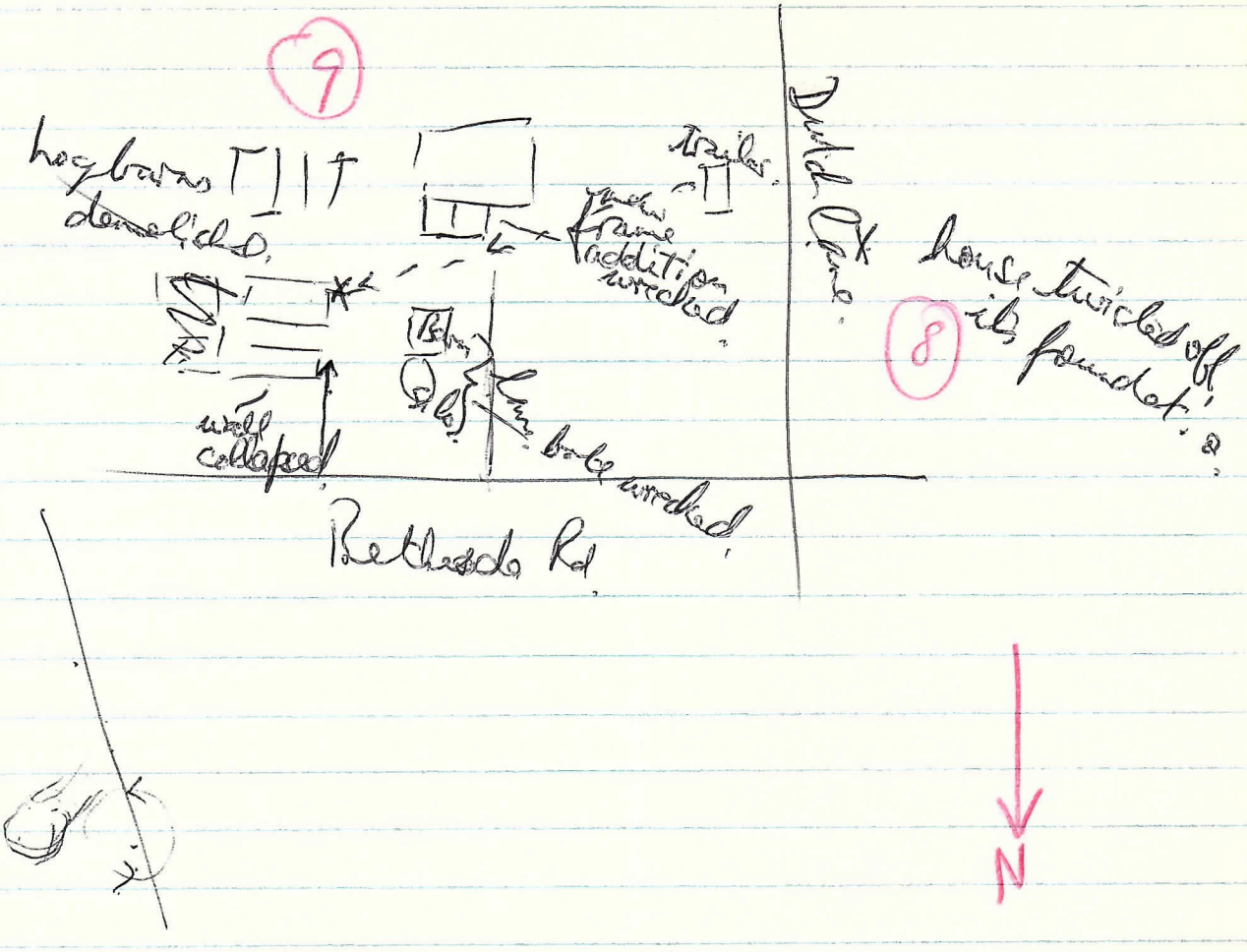
* Grimsby road (previous occurrence in July Aug ?)
* Ont Fed of Agriculture Township of Lincoln offices Smithsville -
Mr Welsh. 892-2126. (1791 Balfour, Fenwick Ont
* opp reported corn in field swirled in circular pattern.
a total of 24 buildings

(2) Cosby Road.
Farm House badly damaged, barn completely wrecked, occupants injured by flying glass.



(8) Dutch Lane. (next concession over from Cosby Rd) and corner of Bethesda. Debris strewn through fields 1/2 mi including angle iron
Jackson farm.

(9) hog farm, four barns demolished as well as bank barn all containing pigs. now kille
65 ft House trailer thrown 400 ft and completely unrecognizable. direction of travel west to east
50 ft concrete silo demolished



Eyewitness report by Rev Gerald Elliot

11 Time about 2:30 pm not sure.

Rev Merle Graham
IAC 354-1409
Rev Nita Beacon
358-5627

- 20 Valley Golf Course at Vineland.
- Saw debris (leaves and branches) circling in the air about 100 or 200 ft.
- funnel passed about ~~100 ft~~ 60 yds away.
- heavy grey color
- funnel ~~vertical~~ appeared vertical, top wide, ~~considerably wider~~ tip narrow (about 30 ft wide)
- afterwards saw ~~a~~ ~~corn~~ portion of corn field (about 30 ft wide) flattened.
- didn't hear any noise
- estimated funnel motion about west to east
-
-

Eyewitness report by
Rev Merle Graham.

Time about 2 pm. Took refuge in a maintenance barn.

11 noticed unusual circling of ~~clouds~~ debris above.
- noticed leaves and twigs
- ~~col~~ funnel a grey color, seen through heavy rain
- shed buffeted by wind, but no sense of danger.
- funnel followed along the river and passed about 100 yds away.
- tip touching the ground and disturbing everything, whirling it up into the air.
- ~~cloud of dust side first spotted till it passed, and moving fast maybe 15 mph.~~

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Woodstock Sentinel | 537-2341 morning. John Leckie } Terry Craig }

YKF 181-152-519 / 648-2571

Plattsville Turkey barn destroyed
Washington
mid way between
Woodstock & Kitchener.

684-1174
CKTB Van Alstine
news Kevin Hodges

Camden south of Vineland.
Tornado sighted and touched down to the SW.
house off its foundation
trailer thrown 1/4 mile.

Sighting at Twenty valley golf course (south of vineland)
Rev Gerald Elliot 684-8844 (St Catherines)
181-152

CB Top 42,000 about 1800z - 1840z.

1 mi east & 1/2 mile south of Camden.
Dutch & Bethesda Rds.
Twister moving towards Camden.
Parson & Jackson Farm.
1 man injured
Barn completely wrecked, 24 or 26 ft
house trailer carried
1/4 mile in the wreckage of the Jackson farm.
4 farms scattered over 3 corn fields
implement shed flattened
large tree
50 yds wide.
car flattened

The Wall Farm, roof off barn.
Mr Kanap witnessed the funnel saw it hit

MS
I 70
ATTN YYZ
WOODSTOCK NEWSPAPER JUST CALLED ASKING FOR INFORMATION ON AN ALLEDGED
TORNADO OCCURRANCE AT PLATTSVILLE THIS AFTERNOON
YXU LONDON WX OFC 081745

77 AUG 8 PC: 43

I 70
ATTN YYZ
FRCS IR
PHONE NUMBER WOODSTOCK SENTINEL 539-1266
CAMBRIDGE NEWSPAPER ALSO CALLED US FOR INFO BUT AGAIN THEY TOLD U
US NO DETAILS
YXU LONDON WX OFC 081842

I 70
YSN YYZ1
ATTN PUBLIC FCTR HAVE PUBLIC REPORTS OF TORNADO &FUNNEL CLOUDS AND
DAMAGE IN CAMDEN AREA AND ALSO AT 20 MI GOLF JUST SOUTH OF
VINELAND
YSN NIAGARA DISTRICT W.O.