B

TORNADO PROJECT SUMMARY SHEET

F=1 ONT-DUG

1. DATE AND TIME JUNE 27, 1969 EVENING

2. LOCATION OR PATH (attach map) VCNTY BRADFORD 0696911

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

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.) 14 cattle killed by lightning

10. TOTAL DAMAGE ESTIMATE $ MANY TENS OF THOUSANDS 11. TOTAL DEATHS NONE

12. TOTAL INJURED NONE 13. TOTAL HOMELESS U

14. LIST ALL REFERENCES

UNKNOWN. PAPER.
Telephone Interviews NOV 13, 1980 by P.J. Elms

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

(a) no remarks

(b) Barns blown apart. Silo demolished. Hundreds of trees uprooted and broken

WORKSHEET

IDTO 0696911

(1) ORIGIN x 17611600
y 4884100

(5) Standard Error S_x 30 C

(2) LIFT-OFF x_1 17619500
y_1 4886700

(6) Standard Error S_y 1500 C

(3) $(x_1 - x)$ = 7900

(4) $(y - y_1)$ = 2600

(7) DAMAGE LENGTH

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

(3)+(4) [→ r,θ] = 8317

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

[x ↔ y] = 18°

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

(5)+(6) [→ r,θ] = 1500 C

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

(7)+(9) [→ r,θ]
[x ↔ y] = 10°

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

SE quad $\phi = 90 + \alpha$

(11) ϕ = 288°

Phone - Conversation with Mrs Keith Langford.
(416) 775-6758, N½ LOT 10 CON 6, WEST
GWILLIMBURY. by P. Shaw on Nov 13/80.

A 60' silo silo was blown down on this farm leaving only three courses of slabs in place.

A storm window on the house was blown outward. No other damage occurred.

FRI JUNE 27 1969

Cattle and silo felled during last Friday's violent storm

P1055

A wild wind and rain storm lashed Bradford and district last Friday night, causing thousands of dollars in damage and disrupting power and telephone service in most areas.

Officials estimate that wind gusts reached hurricane force during the hour-long storm that knocked out power in Bradford for two hours and 20 minutes and well past midnight in certain sections of West Gwillimbury.

A real emergency developed at the Bradford sewage plant, where a gasoline standby engine failed to work because of a faulty clutch. Officials watched helplessly as the sewage started to back up and if the power had been off any longer then there would have been serious sewage back-up in the town.

Public Utilities workmen were on the job even before the storm had subsided removing fallen tree branches from power lines. Town workmen were also out cleaning debris from roads in the town.

The storm cut a swath through West Gwillimbury, Bradford, Holland Landing, Riverdrive Park and Newmarket.

Hundreds of trees were uprooted and broken tree limbs were scattered across lawns and roadways.

Damage was severe at the Holland River Gardens plant where officials estimate repairs to the plant roof and external equipment will run as high as $25,000.

The homes of Dick Lee of Essa St. and Mr. and Mrs. A. M. Dow of Holland St., were damaged when large trees fell on the roofs.

The Lee family left on a fishing trip just an hour before the storm struck and were unaware of the damage to their home.

Insurance estimators calculated there was $3,000 damage to the Dow home, as upstairs rooms were ruined by water.

In Holland Landing, a huge willow tree that 80-year-old Mrs. Sydney Goodman had seen grow from a sapling, was uplifted by the high winds and blown across the street.

Fourteen cattle were killed by a lightning bolt at a farm leased by Ralph Williams on the Sixth Line of West Gwillimbury. Apparently the herd of 25 had taken shelter under a tree when the lightning hit it. Thirteen were killed outright and the other had to be destroyed in the morning.

Mr. Williams heard of the mishap when neighbors and hydro crews began clearing away stom damage and came on the dead cattle. He was unable to get to the immediate area because of danger from fallen power lines.

The loss appears to have been covered by insurance.

At the neighboring farm of West Gwillimbury Reeve Keith Langford a silo was blown down.

Hydro and telephone crews worked around the clock all weekend to repair broken lines and straighten utility poles that were blown partly down by the winds.

Two small barns at the foot of Simcoe Rd. in the Marsh were blown apart and portions of the metal roofing went sailing across the fields.

Crops across the township were flattened by the winds that were estimated to gust to 100 MPH.

Pictures on Page 12 and Page 4

14 CATTLE KILLED.

BRADFORD, HOLLAND LANDING.
RIVERDRIVE PARK. NEWMARKET.

KEITH. LANGFORD. (~~765~~ 416) 775-6758.
HOLLAND RIVER GARDENS.

31 D3, D4.

N ½ L10

60'

Slab Silo

Damage

One corner