B.

(PE, SEPT 19/80)

TORNADO PROJECT SUMMARY SHEET

F = 1

ONT.

1. DATE AND TIME — WED. AUG 26 1959

2. LOCATION OR PATH (attach map) — TORONTO. FROM 290°

06959-09

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

4. PATH WIDTH [4] 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.) — HAILSTONES THE SIZE OF TENNIS BALLS IN ONE AREA.

10. TOTAL DAMAGE ESTIMATE $

11. TOTAL DEATHS — 9 CATS

12. TOTAL INJURED — 1

13. TOTAL HOMELESS — NONE

14. LIST ALL REFERENCES

TORONTO DAILY STAR. THURS. AUG 27 1959

" GLOBE AND MAIL " " " "

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

(a) Called a "Spook twister"

(b) Lifted a barn roof off, and ripped a garage apart, without damaging the car, at Maple King Farm. Nine cats were killed in the garage. A picture window in the house was blown in and the wind drove the family in to the corner of the room.

Trees uprooted in North Toronto.

A plate glass window in a Scarboro store blew in, injuring a woman.

Some chimneys knocked flat in Agincourt.

WORKSHEET

IDTO 0695909

(1) ORIGIN x 17631700
y 4850300

(2) LIFT-OFF x_1 17636200
y_1 4848600

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

(4) $(y - y_1)$ = 1700

(5) Standard Error S_x
C 500

(6) Standard Error S_y
C 500

(7) DAMAGE LENGTH

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

(3)+(4) $\boxed{\rightarrow r,\theta}$ = 4810

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

$\boxed{x \leftrightarrow Y}$ = 20.7°

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

(5)+(6) $\boxed{\rightarrow r,\theta}$ = 7.07

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

(7)+(9) $\boxed{\rightarrow r,\theta}$
$\boxed{x \leftrightarrow Y}$ = 8°

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

SE quad $\phi = 90 + \alpha$

(11) ϕ = 291°