

A



TORNADO PROJECT SUMMARY SHEET

F=?

ONT

1. DATE AND TIME Monday, July 13, 1981, 1630 EST

2. LOCATION OR PATH (attach map)

Vcty Maxwell

0698110

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.)

10. TOTAL DAMAGE ESTIMATE \$ 11. TOTAL DEATHS

12. TOTAL INJURED 13. TOTAL HOMELESS

14. LIST ALL REFERENCES

Telephone interview made by Brenda Dean on August 24, 1981

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

a) Whirling black cloud seen

T.D. 18517765  
5021375

# TORNADO SURVEY FORM

NAME OF INVESTIGATOR <b>BRENDA DEAN</b>	INVESTIGATOR'S PHONE <b>423-5198</b>	DATE OF INVESTIGATION <b>24 08 81</b>	LOCATION NUMBER
INVESTIGATOR'S ADDRESS <b>208 GLEDHILL AVE. TORONTO</b>	PERSONAL SURVEY <input type="checkbox"/> TELEPHONE INTERVIEW <input checked="" type="checkbox"/>	UTM ZONE	EASTING NORTHING

**1. NAME(S) OF PERSON(S) INTERVIEWED**  
**MRS. VELMA FRANKLIN**      **SON + DAUGHTER IN LAW SAW IT**

**2. ADDRESS (NOT RR#) OF THIS LOCATION**  
**LOT 34 CONC. 7 KENYON TP GLENGARRY CO.**  
Lot Con. Twp. Co. or # Street, Town, Prov. or Section, Township, Range, Meridian **VCTY MAXWELL**

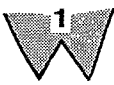
**3. PHONE NUMBER OF PERSON INTERVIEWED**  
**(613) 527-5533**      **(613) 527-2082 (BARN)**  
Area Code      Number


**4. (a) TIME AND DATE OF THE EVENT AT THIS LOCATION**  
**19:30 - 20 EST**      **13 07 81**  
Standard Time, Time Zone      Day      Month      Year


**(b) HOW WAS THE TIME DETERMINED (STOPPED CLOCK, POWER FAILURE, MEMORY, A TIME-FIXING EVENT ETC.)**  
**5-6 (Milking Time)**


**5. (a) FUNNEL SEEN**  
**Y or N**

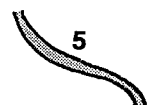
**(b) FUNNEL TYPE (CIRCLE)**

  
**1**  
Multiple

  
**2**  
Smoke-like

  
**3**  
Columnar

  
**4**  
Cone

  
**5**  
Rope-like

**6**  
Unknown

**7**  
Other

**(c) IF MULTIPLE, HOW MANY?**      **(d) FROM WHICH DIRECTION?**

**6. UNUSUAL NOISE?**      **Y or N**      IF YES, DESCRIBE

**7. UNUSUAL SKY COLOUR?**      **Y or N**      IF YES, DESCRIBE

**8. (a) HAIL?**      **Y or N**      **(b) DID HAIL PRECEDE  AND/OR FOLLOW  THE TORNADO?**

**(c) HAIL SIZE (CIRCLE)**

PEA	GRAPE	WALNUT	GOLF BALL
TENNIS BALL	OTHER	UNKNOWN	OR DIAMETER (mm)

**9. (a) RAIN, HOW MUCH?**      **(b) DID THE RAIN FALL BEFORE  AND/OR AFTER  THE TORNADO, AT THE TIME OF  NONE**

**10. (a) NUMBER OF HUMAN FATALITIES**      **(b) NUMBER OF ANIMAL FATALITIES**

**(c) NUMBER OF HUMAN INJURIES**      **(d) NUMBER OF ANIMAL INJURIES**

**11. (a) ARE PHOTOS AVAILABLE? (TAKEN EITHER BY PERSON INTERVIEWED OR ACQUAINTANCES)**      **(b) IF YES, GIVE NAMES AND ADDRESSES WHERE THEY ARE AVAILABLE**

**Y or N**

12.

**DAMAGE UNDERLINE ITEMS AS APPROPRIATE, AND ADD INFORMATION AS APPROPRIATE.**

FO (64 - 115 km/h) T.V. antennae bent. A few roof shingles removed from houses and roofing stripped from barns. Patches of siding removed from houses, awnings or canopies damaged. Aluminum garden sheds moved or buckled and garden furniture blown around. Fences blown down. Trees broken or uprooted (intermittently in heavily treed bush lots).

F1 (116 - 179 km/h) Large areas of roofing material stripped from homes or industrial buildings. Barn roofs entirely removed and boards or siding removed from barn walls. Some impact damage from flying missiles. Unanchored buildings twisted on their foundations. Steel hydro-electric transmission towers knocked down. Summer cottages moved off their foundation.

F2 (180 - 251 km/h) Structural failure of roofs and porches. Barns demolished to the foundation. Empty stave concrete silos blown over or the upper portions of partly filled stave silos demolished. Unanchored 1 - storey houses moved entirely off their foundation. Cottages rolled over or carried short distances. Farm wagons or equipment carried short distances. Areas of total damage in heavily treed bush lots. Considerable impact damage from flying missiles.

F3 (252 - 330 km/h) Upper storeys of brick houses destroyed. Extensive structural damage to frame houses. Heavy farm machinery and automobiles moved or upset. Unanchored 2 - storey frame houses moved entirely off their foundation. Tombstones blown over or carried short distances. House trailers entirely demolished. Extensive impact damage from flying missiles.

F4 (331 - 416 km/h) Two-storey brick homes almost completely destroyed. Empty poured concrete silos blown down. Automobiles, vans, heavy farm equipment carried long distances through the air. Extensive structural failure of industrial buildings.

F5 (417 - 509 km/h) Little remains intact.

13.

**DAMAGE SPECIFICS REQUIRED (SHOW THE UNITS OF MEASUREMENT) IN ORDER TO CALCULATE WIND VELOCITY WHEN STRUCTURES OR OBJECTS HAVE BEEN MOVED, TIPPED OR CARRIED.**

(a) Name of object or structure

(b) Predominant material used in its construction

(c) Was it anchored, and how?

(d) Estimated weight

(e) Dimensions

Length (L)

Width (W)

Height (H)

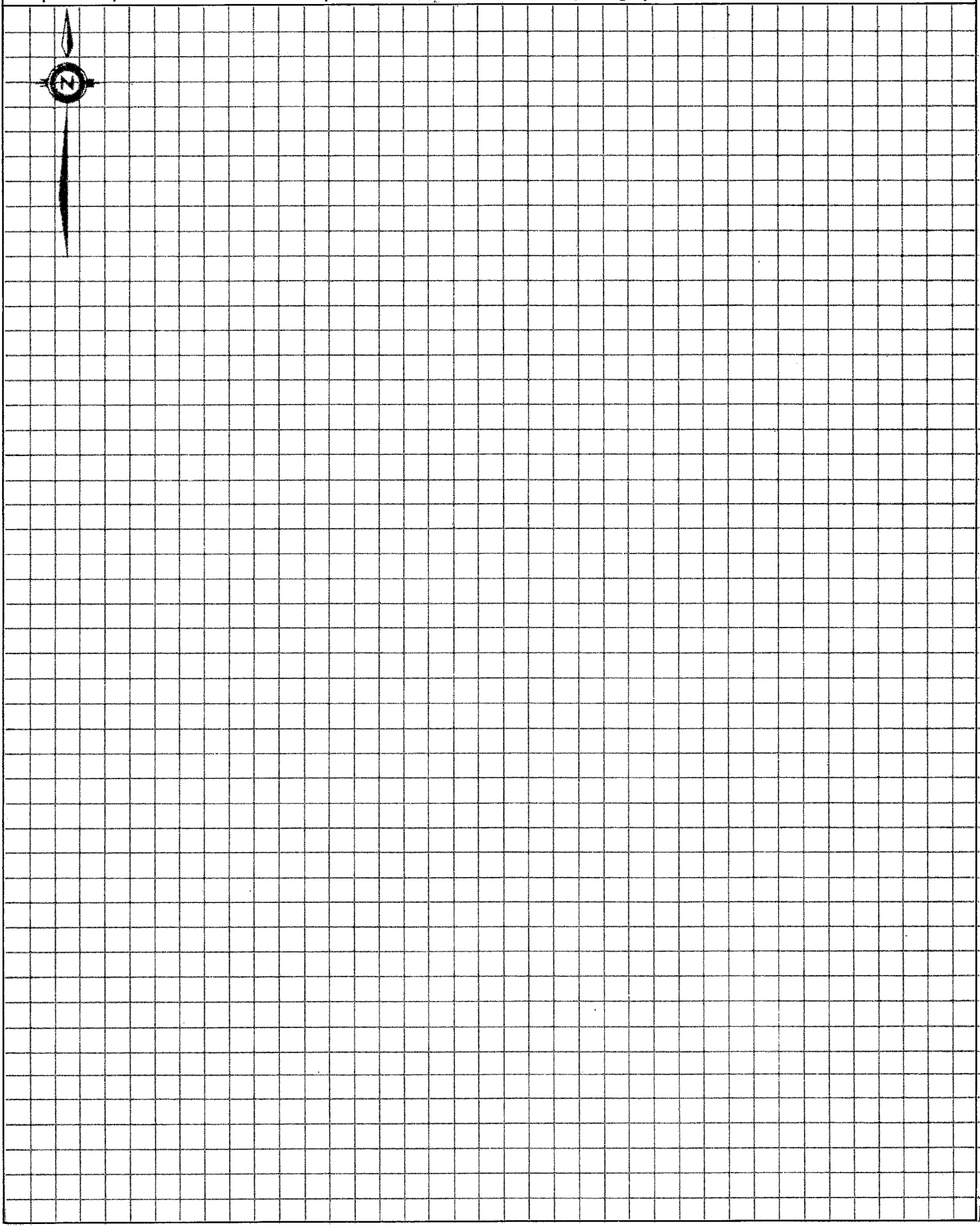
Diameter (D)

(f) Angle ( $\theta$ ) between the wind direction and the normal plane.

(g) Sketch of the object or structure (show L, W, H, D or other dimensions or quantities).

14.

Damage sketch for this location. — Need not be to scale but should indicate numerical dimensions (metric units preferred) and orientation with respect to north. Positions where photographs were taken should be located.



15.

General comments

With <sup>the</sup> Black Cloud → Like in Movies  
Round to North



