(b) Borns unrofed et allerwise damaged.
Fan equipment to seed around

WERKSHEET

C 500

6 Standard Error Sy

$$(x_i - x) = 100$$

DAMAGE LENGTH
$$L = \left[ (x, -x)^2 + (y-y,)^2 \right]^{1/2} \quad (8) \propto = \tan^{-1} |y-y|^{1/2}$$

$$3 + 4 \Rightarrow r, \theta = 5800 \quad m$$

$$x \leftrightarrow y = 89^{\circ}$$

(9) Standard Error 
$$S_L = (s_x^2 + s_y^2)^1/2$$
  
 $\textcircled{5} + \textcircled{6} \Rightarrow \overrightarrow{r}, \textcircled{0} = 707 \ \textcircled{c}$ 

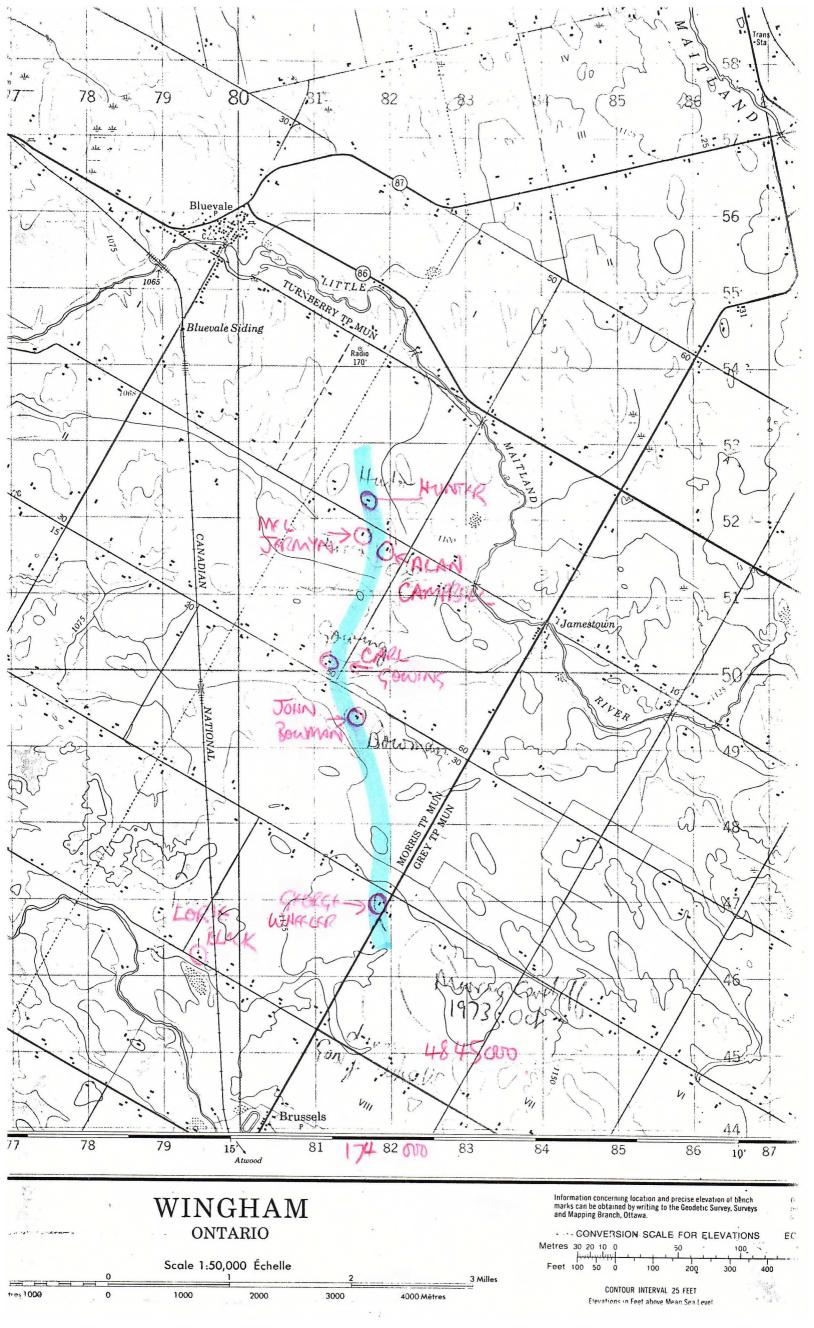
$$7 + 9 \Rightarrow 50$$

$$[X \leftrightarrow Y] = 70$$

$$NE \text{ Quad } \phi = 90 - \infty$$

$$NW \text{ Quad } \phi = 270 + \infty$$

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



Telephone Investigation of a tornado near Wingham, Ont by M.J.Newark on June 8, 1978.

Storm date Tuesday May 30, 1978. Time 1350EDT.

Place. 2nd and 3rd concessions of Morris township.

Length of tornado path approximately 2miles (3 km).

Wiath uknown.

Farm of Alan Campbell (519) 887-9451North side 2nd conc.  $1\frac{1}{4}$  mi west of Huron county road #12,  $2\frac{1}{2}$  mi south of highway 86.

Storm described as extreme in intensity coming from the SW. Hail

1 inch in diameter. Several barns unroofed and one (not very sound construction) demolished. A 1200lb rack lifted from a wagon and carried 30 feet while the waggon itself carried about 15 feet. Head a family man.

Farm of Mel Jermyn (519) 887-9493
next door neighbour of A Campbell on conc 2. W. Trees, crops, and windows damaged by golf-ball sized hail. (The broken windows were on the south side of the house).

Farm of Carl Gowing (519) 887-9248
South side of conc 2 across from Campbell.
Hail and wind described as having unusual force. Largest hail stones the size of tennis balls. Storm duration 5 or 10 minutes. Limbs and leaves stripped from trees. Clock stopped at 1350 EDT.

Farm of John Bowman (519) 887-6127 Let 27 red north side of 3rd conc about 3/4 mi southeast of the Gowing farm. Barn partly unroofed and one end taken out. Debris concentrated along the track of the storm for about 100 rods. No damage suffered by neighbours.

Farm of Lorie Black (519) 887-9288

Conc 4 to the southwest of the Bowman farm.

Mr Black and two friends sheltered in a small outbuilding noticed a black funnel shaped cloud at approximately 1330EDT. It was aloft and their farm suffered no damage. At the time of the sighting there

Seorge Wheeler: lot 30 conc 4 887-6789. Ted Cowan lot 26 n/24 was some very light rain falling. The funnel moved northeastwards fairly quickly and was followed by heavier rain, lightning and inch diameter hail.

Comments.

The concession lines in this township run from NN to SE. Each farmer was questioned carefully about the direction of the storm and it appears to have been moving perpendicularly to the concession lines or from southwest to northeast. None of the farmers questioned knew of any damage north of concession 2 or south of concession 3. Although the noise made by the storm was very loud, nobody reported hearing unusual sounds.

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WEATHER ENTERPRISES
PO BOX 427
BRAMPTON
ONTARIO, L6V 2L4

## #Brussels Post

107th Year - Issue No. 23 WEDNESDAY, JUNE 7, 1978

## Rare twister hit here Tuesday Some residents of the Brussels sudden torrential rain and there

area got a surprise in the form of a small twister Tuesday which caused major damage on the farm of Jim Bowman of R.R.5, Brussels and minor damage to other farm homes.

The Bowmans probably suffered the most damage with the storm taking the roof off the barn and breaking some beams.

The Bowmans, estimated that the damage cost could run over \$7,000 or \$8,000 but added that, "you can't hardly tell how much it's going to cost until you get the

· He also said the hail cut about six or eight inches off the alfalfa.

Windows were broken by hail in several homes including those of Ted Cowan and Mel Jermyn and windows in the barn at Carl Gowing's.

Culverts on the road north of Brussels could not handle the was considerable flash flooding.

The storm acted not unlike a mini-tornado, touching down here and there.

Brussels escaped damage but had the heavy downpour of rain and an electrical storm while only a short distance away the dust was fiving,

Fortunately there have been no reports of injury to anyone.

Mrs. Ted Cowan of R.R.5. Brussels, said it started to rain about 12:45 and then at about 1:25 it started to hail. Mrs. Cowan turned to her husband and said it sounded like the windows were going to break. Sure enough the hail broke all her storm windows which she hadn't taken off vet

By two o'clock the hail had stopped but it continued to rain and the hailstones weren't melting very, fast.

"By six o'clock we were still picking up hailstones the size of alleys." Mrs. Cowan said.

The storm also damaged a good 40 acres of wheat and about 50 acres of corn and the Cowans are just waiting to see whether the two crops are going to come or

Mrs. Mel Jermyn of R.R.2 Brussels, said they had doors and windows blown out of the house and she described the hail as being the size of golf balls.

They're not too sure of the crop damage yet but Mrs. Jermyn said the storm had stripped the grass and ruined the strawberry patch.

Alan Campbell had two windows blown off his house and damage to some farm equipment out in the yard which got swung around in the storm.

'A barn on Mr. Campbell's other farm which he doesn't use was blown down.

One wagon rack was demolished and a bale elevator was upset over onto another piece of farm machinery. Mr. Campbell said it would be a fair bit of work '- to replace parts in the machinery but there wasn't too much damage that was going to cost a

Mr. Campbell said that his hay and grain fields were flattened · but that the corn wasn't up yet. "h was really frightening for maybe five to ten minutes, then it was gone, Mr . Campbell said of . the strong wind.

- Carl Gowing of R.R.2, Bluevale . had damage to the windows in his "three pig barns and Mrs. Gowing ; said the strawberry patch was a total loss and that the hay fields were cut right off.

Charles Thomas had some of the roof torn off his barn in Morris Township.

Tony Chir of the Sky Harbor Airport Weather Station in Goderich says a twister is the result of cooler weather coming up against the hot air mass.

The reason for it hitting the Brussels area only could be that twisters are very sporadic in nature according to Mr. Chir.

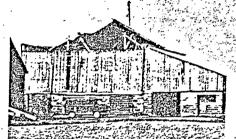
. He said it would have to touch ground to be called a twister and if it took a barn up or ripped the land up then it could be classified 2 as a twister.

Graham Campbell, weather technician at Sky Harbor Airport check with the Ontario Weather Centre in Toronto to see if the storm that went through Brussels could actually be classified as a twister.

He said that Michael Newark from the Centre with the description of the damage given to him

he figures that the localized energy meant a twister.

Mr. Campbell said Mr. Neward was surprised to hear about the twister since it was only about the third or fourth reported in Ontario within the last year.



WINDBLOWN - A small twister in the Brussels area took the roof off a barn on a farm owned by Jim Bowman. Mr. Bowman estimated that it could take \$7,000 or \$8,000 to be repaired. The roof was blown 100 rods down the field. . (Photo by Langlois)

13,5 km

80 11 120 140 160 KM 188.4 mm hat @ 5km 272/133 km MAX R 748 14 KM X 71.8 mm h-1 @ 20m 275/128 Km 11 668 mm hote 3km 290/148 Km 1827 9 KMX 48.7 mm hri@ 3km 301/144 km 1904 11 KM X UNK 1924 10 KMX 84:1 mm h-10 4KM 314/161KM 1943 11 KM X 546 mm h 1@ 3km 321/167 km 404 mm h 1@ 6km 322/181 tam 2002 11 KMX 2021 11 KM X

