TORNADO PROJECT SUMMARY SHEET

A F=0 ONT

1. DATE AND TIME JULY 7, 1977 1430 or 1500 EST

2. LOCATION OR PATH (attach map) 4 or 5 miles southwest of Windsor Airport

0697705

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

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 NONE

12. TOTAL INJURED 13. TOTAL HOMELESS

14. LIST ALL REFERENCES

SEVERE WX LOG, OWC JULY 7, 1977
WINDSOR STAR, July 8, 1977

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

(a) Mary Carter said "I looked outside the window and saw this black cone coming along the ground". (a funnel cloud was reported in Michigan just previously).

(b). 4½ ton trailer overturned. Fences blown over. Trees uprooted and a small shed appeared to 'explode'.

WORKSHEET

IDTO 0697705

(1) ORIGIN x 17333050

y 4677200

(2) LIFT-OFF x_1 17334100

y_1 4675200

(3) $(x_1 - x)$ = 1050

(4) $(y - y_1)$ = 2000

(5) Standard Error S_x 200 C

(6) Standard Error S_y 500 C

(7) DAMAGE LENGTH

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

(3)+(4) $\boxed{\rightarrow r,\theta}$ = 2259

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

$\boxed{x \leftrightarrow y}$ = 62°

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

(5)+(6) $\boxed{\rightarrow r,\theta}$ = 539 m C

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

(7)+(9) $\boxed{\rightarrow r,\theta}$

$\boxed{x \leftrightarrow y}$ = 13°

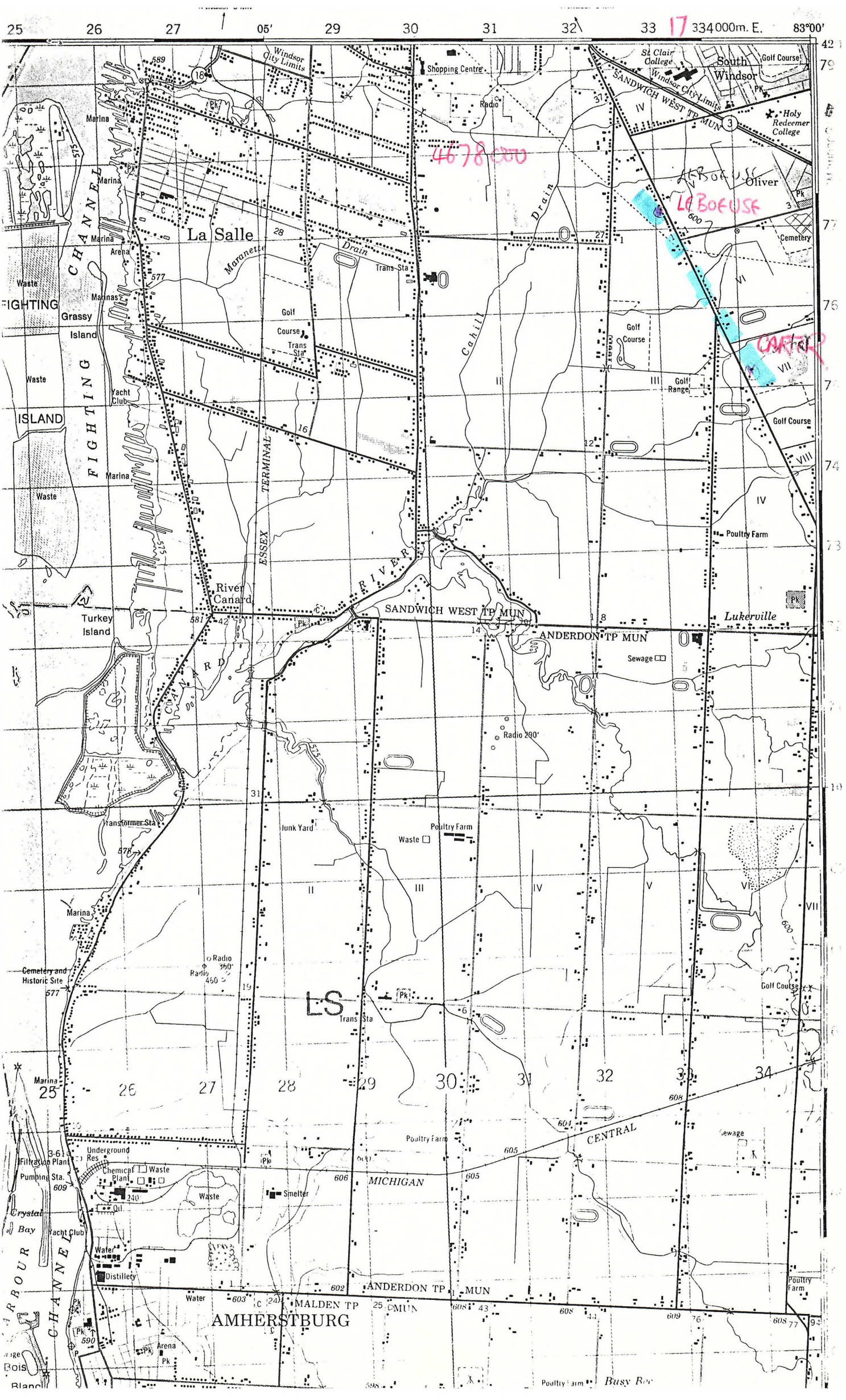
NE Quad $\phi = 90 - \alpha$

NW Quad $\phi = 270 + \alpha$

SW quad $\phi = 270 - \alpha$

SE quad $\phi = 90 + \alpha$

(11) ϕ = 332°


25
26
27
05'
29
30
31
32
33
334000m. E.
83°00'
Windsor City Limits
Shopping Centre
St Clair College
South Windsor
Golf Course
SANDWICH WEST TP MUN
Radio
Holy Redeemer College
Marina
Oliver
Cemetery
La Salle
Maranette Drain
Trans Sta
Cahill Drain
Golf Course
Golf Range
Waste
Grassy Island
Yacht Club
ISLAND
Marinas
Arena
CHANNEL
FIGHTING
ESSEX TERMINAL RIVER
River Canard
CANARD
Turkey Island
SANDWICH WEST TP MUN
ANDERDON TP MUN
Lukerville
Sewage
Poultry Farm
Radio 290'
Transformer Sta
Junk Yard
Waste
Cemetery and Historic Site
Radio 360'
Radio 450'
LS
Trans Sta
Golf Course
Underground Res
Filtration Plant
Pumping Sta.
Chemical Plant
Waste
Smelter
Oil
Crystal Bay
Yacht Club
Water
Distillery
HARBOUR CHANNEL
MALDEN TP
AMHERSTBURG
Arena
Busy Bee
CENTRAL MICHIGAN
4678 C00
LEBOEUF
CARTER

0702 OPP reported heavy blowing dust in Kitchener with total power failure under large CB at 0500 Z

Late aftn just at shft chg, Ed Roete put out svr tstm wrng for surn Lk St. Clair rgn at 5:50 PM & received a call fm Windsor asking abt renewing the wrng. The briefer also told me of a lady fm south Windsor who called to say a trailer was overturned, fences blown over, trees uprooted and a small shed appeared to "explode" as she looked at it. A funnel cloud had been reported in Michigan just previously. Thus this thing in S Windsor may ho been a tornado.

The tstms subsequently moved S of the brdr and thus I cancelled the wrng at 6:00 PM.

Art Russell

eyewitness.

(519) 966 - 3991 - MRS LEBOEUF took off roof and closed in back porch (door came in and back wall 1980) a member of tree broke half way up.

4 or 5 mi SW of airport, 4700 block of Huron line. 1530 or 1600 local.

Green sky, rolling.



Photo by BEV MACKENZIE

SURVEYS DAMAGE -- Mary Carter stands in front of an overturned house trailer which was knocked over by what she described as a small tornado which struck in the Huron Church Rd. area Thursday afternoon. It was part of a storm system which ended the record-setting heat wave. There was some crop damage as well in the area.

Mini-twister, heavy rain

Storms cool off area's heat wave

THE WINDSOR STAR
JULY 8 1977

By TONY WANLESS

What was described as a small tornado churned through a Windsor neighborhood on Huron Church Road at 3:15 p.m. Thursday, flipping a 31-foot house trailer through the air and damaging a boat.

Elswhere in the tri-county area, two Chatham homes and a day nursery were struck by lightning, one of the homes three times, and Lambton County was pelted with rain as hot and cold weather fronts collided over the district.

The cooler weather is going to stay with us for the weekend.

Tonight's low will be 17C with a high on Saturday of 26C.

Mary Carter, of 5100 Huron Church Rd., said a funnel cloud hurled the 9,000-pound trailer 15 feet in the air and 10 feet away before strewing debris in her back yard and careening around her house.

No one was hurt in the incident.

"I had all the kids in the house because it was very windy and I looked outside the window and saw this black cone coming along the ground," she said. "It just picked up the trailer and flipped it over."

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THE WINDSOR STAR
JULY 8 1977

Storms cool off

(Continued from Page One)

Mrs. Carter said the funnel then touched the upstairs section of the house where her husband, Jim, and three other adults had taken refuge.

"It tore the eavestroughs off the roof and started coming in through the window but then turned away," she said. "You don't know what it's like to look out your wndow and see a big black, churning cloud. It looks like that's all there is out there.

"We were sitting at the window and we could feel it being lifted out of its frame by the wind so we all got a blanket and pushed on it (the window) until the funnel turned away," she added.

"I could only think 'good God, it's all over for me now,'" she added. "I just wanted to run away somewhere."

Mr. Carter estimated the damage caused by the funnel, which also ripped up a 30-foot section of fence and damaged a swimming pool deck, caused about $16,000 damage.

"The inside of the trailer is destroyed," he said. "We belong to a CB club and we used it as a base when we went to CBer gatherings. All the furniture, the fridge and the stove are wrecked."

The Carters had recently sold the trailer to Mrs. Carter's stepfather, Remi Semand, for $13,000. Mr. Semand was sobbing after he viewed the damage.

"I applied for insurance but I'm not sure if it's gone through yet," he said. "My insurance man said the only insurance I might have is the one the bank has on my loan."

After leaving the Carter's home, the funnel tore a limb off a tree in a neighboring yard and overturned a small power boat owned by John Duffy, about 20 houses away.

"We were looking out the back window and we saw a part of my fence go and a 16-foot steel birdhouse pole bend over like it was rubber," he said. "I thought 'what about my boat' and sure enough, it had been turned on its side."

The boat's windshield was smashed and the windwhield frame twisted but there was no other damage. Mr. Duffy was unable to estimate the damage cost of repairing the boat.

In Chatham, the adage that lightning never strikes twice in the same place didn't apply Thursday afternoon.

Three strikes of lightning in rapid succession hit the residence of James Torrance, 266½ Delaware Ave.

Mr. Torrance had been preparing to take a bath but had gone into the yard when the storm hit.

One of the lightning strikes ripped out a first-floor window, the second blasted out a television set and electric clock, and the third ripped a foot-wide hole from floor to ceiling on the second floor, showering the bathtub with plaster and debris.

Firemen said Mr. Torrance would have been killed if he had been in the bathtub.

While the storm caused some damage, all it brought to the southern part of Essex County was welcome relief from the heat.

There were no reports of water or lightning damage anywhere in the southern part of the county according to an Essex-based Ontario Provincial Police spokesman and police in the Leamington-Kingsville area also reported no damage.

There was only one hydro outage reported in the county according to Ontario Hydro's Essex-based operations manager King Graham.

Mr. Graham said about 250 people just outside Tecumseh were without power for about two hours Thursday afternoon when trees felled by high winds and lightning brought down hydro lines.

Rainfall in the southern part of the county was generally light Thursday with about four-tenths of an inch falling in the Leamington area and about 1/6 of an inch falling in Harrow.

Harrow Research Station extension horticulturalist Frank Kappel said the rain was beneficial to area crops although some slight damage was caused in low-lying areas.

Mr. Kappel said there could be more severe damage if a heavy downpour occurred before next week.

42 Pages THE WINDSOR STAR 15 Cents Final

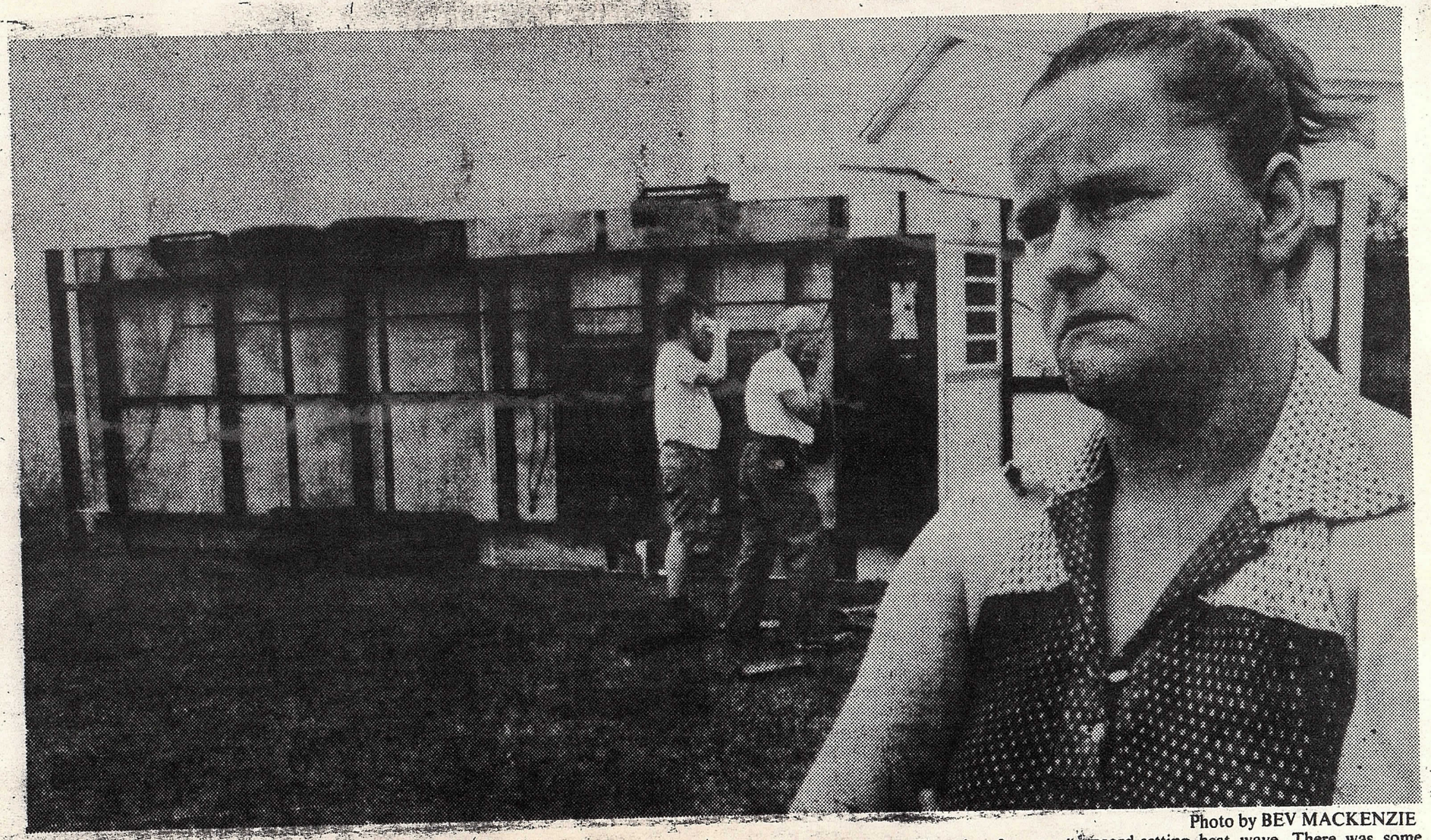


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