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**Confirmed Tornado  
Mississauga, Ontario  
July 6, 1985**

**Date- Local:** Saturday, July 6<sup>th</sup>, 1985.

**UTC:** Saturday, July 6<sup>th</sup>, 1985.

**Time-Local:** 13:30

**UTC:** 17:30

**Location:** Mississauga, Streetsville area

**Region:** Halton – Peel

**Classification:** Confirmed Tornado

**Category:** A

**Casualties:** None

**Track Length:** 1400m

**Width:** 50m

**Motion:** 280°

**Damage Estimate:** \$250 000

**F-Scale Rating:** F1

**Code:** IB

**Damage Survey:** yes

**Spotter Reports:** None

**Other Documents:**

Logged event citing tornado.

Damage report done by MT5 from Ontario Weather Office, Mel Prout, including map, pictures and descriptions of damage.

More information, including another damage survey report ('Streetsville, Ontario Tornado'), can be found in the vanilla 'Ontario July 1985' folder at the front of the year.

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## **Tornado F-Scale Assessment**

Marci Vanhoucke

Tornado Data Production Assistant, Environment Canada

July 21, 2005.

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**Classification:** Confirmed Tornado

**Date:** Saturday, July 6<sup>th</sup>, 1985.

**Location:** Mississauga (Streetsville area), Halton – Peel

**Assessment:** F1

**F-Code:** IB

**Explanation of Assessment:** There are 2 damage surveys, one that states nearly 60% of a factory roof was removed and minor damage in residential area. Due to the significant roof damage to the factory, this tornado is rated an F1.

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**CLASSIFICATION:** Severe Thunderstorm**SOURCE/WATCHER ID:****EVENT TIME (UTC):** 17-30 **EVENT DAY:** 6.0 **MONTH:** 7.0 **YEAR:** 1985.0 **EVENT DURATION (HR):** 0.0 **(MIN):** 0.0**DAY OF THE WEEK:****EVENT LOCALE:** Mississauga**ASOCTD PUBLIC RGN:** Halton-Peel**DETAILED DESCRIPTION:**

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**INITIAL ASSESSMENT:** YES**SPL WX STATEMENT IN EFFECT ?:** UKN **STATEMENT LEAD TIME (HR):** (MIN):**WATCH IN EFFECT ?:** UKN **WATCH LEAD TIME (HR):** (MIN):**WARNING IN EFFECT ?:** UKN **WARNING LEAD TIME (HR):** (MIN):**TORNADO:****WINDSPEED:****RAINFALL:** MM **RAIN DURATION:****HAIL DIAMETER:** MM **HAIL DESCRIPTION:****EVENT DESCRIPTION:** Tornado**Mesoscale ?:** **Synoptic ?:** **Big Event ?:****Statement Est Hit/Miss:****Watch Est Hit/Miss:****Warning Est Hit/Miss:****Separate Event (30km/30min):** YES**Vetted by:****Vetted date:**

7 JUL 85

BARRY

MIKE HAS DONE A REPORT OF THE SYNOPTIC SITUATION INCLUDING WHAT ACTION WAS TAKEN. I DID THE INVESTIGATION OF THE TORNADO AND MY REPORT IS INCLUDED. I AM WORKING THE SEVERE WEATHER DESK ON MONDAY. THE INCLUDED PICTURES DO NOT REPRESENT ALL POINTS ON THE MAP, ONLY WHAT I CONSIDERED TO BE SIGNIFICANT.

MEL

REPORT ON JULY 6 1985 TORNADO IN MISSISSAUGA

AT 12Z A 500 MB COLD LOW WAS CENTRED NEAR BAY CITY. IT HAD A HISTORICAL EASTWARD MOTION OF 10 KNOTS. FLINT TEPHIGRAM SHOWED A TROPOPAUSE OF 300. TEHPI ANALYSIS GAVE POSSIBLE CBS 350 AND SMALL HAIL. THESE STORMS WERE EXPECTED TO DEVELOP WITH THE COLD LOW AS IT MOVED EAST ACROSS LAKE HURON. BY 1500Z EXETER AND KING RADARS SHOWED VERY STRONG CELLS THROUGH WESTERN PORTIONS OF THE LAKE HURON DISTRICT. A WATCH WAS ISSUED FOR LAKE HURON AND SOUTHERN GEORGIAN BAY REGIONS AT 11.43 AM. THE STRONGEST STORMS WERE EXPECTED TO REMAIN NEAR THE COLD CORE. BY 1600Z THE STORMS FORMED INTO A LINE FROM SOUTHEAST OF GEORGIAN BAY TO NEAR LONDON. A SECOND WEAKER LINE WAS JUST EAST OF THE MAIN LINE. CELL MOTION WAS FROM 250 DEGREES. MONITORING THE RADAR UP TO 1650 GMT INDICATED ~~THAT~~ THAT THE STRONGEST STORMS WOULD REMAIN NORTH OF TORONTO. UP TO THIS TIME THE ONLY REPORTS OF ANY SIGNIFICANT WEATHER WERE 2 OBSERVATIONS OF PEA SIZE HAIL FROM KITCHENER AND JUST WEST OF ORRILIA.

AFTER 1650 GMT THE SOUTHERN END OF THE WEAKER LEADING LINE BEGAN TO DEVELOP. AS IT MOVED THROUGH TORONTO TOPS WERE NEAR 300 AND EXETER INDICATED RAINFALL RATES 16-32 MM HOUR OR BELOW OUR NORMAL SEVERE WEATHER CRITERIA. (A THUNDERSTORM 1110 ALERT WAS ISSUED FOR PEARSON INTERNATIONAL AIRPORT AT 1710 GMT. ) A SMALL CRAFT WARNING FOR THE WATERS OF WESTERN LAKE ONTARIO WAS ISSUED AT 1733 GMT. THE REPORT OF THE TORNADO CAME INTO THE OFFICE ~~BETWEEN~~ ABOUT 1750 GMT AND A TORNADO WARNING FOR METRO TORONTO SOUTHERN PEEL SOUTHERN HALTON HAMILTON-WENTWORTH AND BRANT WAS ISSUED AT 1755 GMT. NO FURTHER REPORTS OF DAMAGE HAVE BEEN RECEIVED FROM THE WEST END OF LAKE ONTARIO.

LEDUC

STREETSVILLE TORNADO 6TH JULY 1985

RATED AT F1 WITH AN ESTIMATED TRACK WIDTH OF 40 TO 70 METRES.  
NO INJURIES WERE REPORTED.

REFER TO MAP 1. FOR THE FOLLOWING NUMBERED LOCATIONS. PICTURES ARE  
NUMBERED ON THE BACK TO CORRESPOND TO MAP LOCATIONS.

SHORTLY BEFORE 1:30 PM OBSERVERS NOTED A VERY DARK CLOUD WITH VIVID  
LIGHTNING CROSSING THE 401 HIGHWAY AND MISSISSAUGA ROAD NEAR WHERE  
THEY INTERSECT. AT APPROXIMATELY 1:30 PM A TORNADO TOUCHED DOWN JUST  
WEST OF THE MICHELE LYNN COSMETICS FACTORY. BROKEN BRANCHES AT TREE  
TOP LEVEL IN A TREE CLUSTER, LOCATED IN A FIELD JUST NORTH OF KITIMAT  
ROAD, WAS THE FIRST SIGN OF DAMAGE. THE NEXT SIGN WAS AT THE FENCES  
WHICH RUN EACH SIDE OF THE CP TRACKS, WHERE SOME POSTS WERE DOWN  
THIS WAS IMMEDIATELY WEST OF THE FACTORY.

1. THE ROOF COVERING, CONSISTING OF INSULATION AND WHAT APPEARS TO  
BE TAR PAPER, WAS TORN AWAY FROM THE METALIC ROOF. TRACES OF THIS  
ROOF COVER WERE FOUND AT ALL POINTS NOTED ON THE MAP. INSIDE THE  
FACTORY GAS PIPES WERE PULLED AWAY FROM THE HEATING MECHANISM,  
WHICH WAS LOCATED AT CEILING LEVEL, ALLOWING FOR GAS LEAKAGE. THIS  
COULD HAVE BEEN CAUSED BY A LIFTING OF THE METAL ROOF. THE FLOOR  
AND ITEMS WITHIN THE BUILDING BECAME SOAKED ONCE THE PROTECTIVE  
COVER WAS REMOVED FROM THE ROOF. THERE WAS NO APPARENT DAMAGE  
TO ADJACENT BUILDINGS.
2. WITHIN THIS OPEN AREA SMALL TREES WERE BROKEN OFF AT GROUND LEVEL.  
OTHER TREES HAD BRANCHES BROKEN OFF AND SOME WERE LEANING. A  
TRAIL OF INSULATION AND ROOF COVERING FROM THE FACTORY SPREAD  
EASTWARD ACROSS THE FIELD TOWARDS THE TOWNHOUSE COMPLEX LOCATED  
AT POSITIONS 3 AND 4.
3. SOME SHINGLES WERE MISSING FROM THE CORNER OF A TOWN HOUSE AND  
SOME TREE BRANCHES WERE BROKEN OFF. A FEW OTHER TOWN HOUSES IN  
THIS COMPLEX LOST SHINGLES ALONG THE TRACK OF THE TORNADO.
4. MR. TOM GOBRI (UNIT 94) SAW A FUNNEL PASS NEAR HIS HOME. HE SAID  
THAT "DEBRIS WAS ROTATING RAPIDLY WITHIN THE FUNNEL AND ROSE TO  
40 FEET (APPROXIMATELY 13 METRES)". A NEIGHBOURS FENCE, ACROSS  
FROM HIS HOME, WAS TORN DOWN. BEHIND HIS UNIT A LARGE WILLOW TREE  
WAS TORN OUT BY THE ROOTS DAMAGING A FENCE AS IT FELL. OTHER  
SMALLER TREES HAD BRANCES BROKEN OFF IN THIS AREA AS WELL.

THE STORM TRACK CONTINUED EASTWARD FROM THIS POINT BREAKING OFF TREE  
BRANCHES BUT NO APPARENT DAMAGE TO HOUSES WAS NOTED.

5. AS THE FUNNEL CROSSED CREDITVIEW ROAD IT APPEARS TO HAVE LIFTED  
OFF THE GROUND SINCE ONLY TREE TOP BRANCHES WERE BROKEN OFF. A  
FEW ROAD SIGNS WERE BLOWN OVER, BUT THESE WERE TEMPORARY IN  
NATURE SINCE CONSTRUCTION WAS BEING CARRIED OUT IN THIS AREA.

6. AT LEAST FOUR HOUSES IN THE AREA HAD SHINGLES TORN OFF AND FENCES DAMAGED OR SECTIONS MISSING. ONE HOUSE ON THE CORNER LOST SOME ALUMINIUM SOFFITS WHILE OTHERS WERE DANGLING OR BENT. THIS SAME HOUSE HAD A 2 BY 4 DRIVEN THROUGH THE KITCHEN WINDOW SHATTERING THE GLASS. A NEIGHBOUR DIRECTLY BEHIND THIS HOUSE LOST THE THERMAL BLANKET FROM THE POOL. THIS WAS FOUND IN POSITION 8 FLAPPING FROM THE TOP OF A TREE LIKE A FLAG.
7. SOME LUMBER AND ONE SECTION FROM THE FENCES AT POSITION 6 WERE FOUND ACROSS THE STREET. THESE OBVIOUSLY HAD BEEN MOVED SINCE ONE SECTION WAS LEANING AGAINST A TREE IN ONE YARD AND SOME OF THE BOARDS WERE IN A NEAT PILE IN ANOTHER. HOWEVER IT MUST BE ASSUMED THAT THE PIECES LANDED IN THESE YARDS. AN INTERESTING FEATURE OF THE STORM APPEARED IN THIS AREA. OF THREE PROPERTIES SIDE BY SIDE, THE ONE ON THE LEFT HAD A TREE DOWNED IN THE FRONT YARD, THE ONE IN THE MIDDLE HAD BRANCH DAMAGE TO A TREE IN THE BACK YARD, AND THE ONE ON THE RIGHT HAD THE ONLY APPARENT HOUSE DAMAGE WITH SOFFITS MISSING OR DANGLING. IT SHOULD BE NOTED THAT THE LATTER HOUSE WAS DIRECTLY ACROSS THE STREET FROM THE SOFFIT DAMAGED HOUSE IN POSITION 6.
8. AT THIS POINT THE THERMAL BLANKET WAS FOUND AND ALSO IT APPEARS THAT THIS IS WHERE THE FUNNEL LIFTED FOR THE FINAL TIME.
9. TALL TREES LINED THIS AREA AND ONLY THE BRANCES AT THE TOP OF ONE TREE SHOWED SIGNS OF DAMAGE.
10. A COUPLE OF SHINGLES AND A PIECE OF INSOLATION FROM THE FACTORY WAS FOUND. THE INSOLATION WAS BELIEVED TO BE FROM THE FACTORY SINCE IT WAS YELLOW AND MADE OF A HARD SUBSTANCE. NONE OF THE HOUSES HAD THIS OR SHOWED ANY SIGNS OF INSOLATION LOSS. NO SURFACE DAMAGE WAS OBSERVED.
11. THREE COMPANIES ARE LOCATED AT THIS POINT. A PIECE OF YELLOW INSOLATION, ATTCHED TO TAP PAPER, WAS FOUND ON THE GROUNDS. AN EMPLOYEE OF THE FIRST LINE TRUCK MAINTENANCE COMPANY WAS IN THE TWO STORY OFFICE BUILDING AT THE TIME OF THE STORM PASSAGE. HE MENTIONED THAT THE BUILDING SHOOK SO VIGOROUSLY THAT HE SUPPROTED HIMSELF AGAINST A WALL. THE BUILDING IS OF BRICK CONSRUCTION ON THE FIRST FLOOR AND CORRUGATED ALUMINIUM WALLS AND ROOF ON THE SECOND. NO APPARANT DAMAGE OCCURED TO THIS BUILDING OR ANY OTHER ON THE GROUNDS. SOME EMPTY OIL DRUMS WERE MOVED BUT NOTHING ELSE WAS EVIDENT.

INVESTIGATED ON JULY 6TH

BY

M.H. PROUT (MTS)





Humber Park <sup>opposite</sup> ~~near~~ Old Mill.

Several large trees uprooted

500<sup>m</sup> ~~ft~~ long 50 m wide

Early afternoon

JUL 6  
STORM

Franz Maier Global Mail.

fences minor trees uproot

6-7 large trees.

July 6, 1985

Mississauga

**\$250,000 in damage to homes, buildings; [SUN Edition]***Heather Bird, Jonathan Ferguson and Cal Millar Toronto Star. Toronto Star. Toronto, Ont.: Jul 7, 1985. pg. A.1***Full Text** (989 words)*Copyright 1985 Toronto Star, All Rights Reserved.*

Residents scrambled into their basements for cover yesterday as a tornado ripped through a Mississauga neighborhood, causing more than \$250,000 in damage.

There were close calls but no injuries in the South Meadowvale area.

The twister - which came only five weeks after Barrie and other areas were devastated by a series of tornadoes - damaged 17 homes, sending lawn furniture, fences and shingles through the air, and ripped the roof off a nearby jewelry factory.

Some residents who were outside when the tornado struck saw it approach and had time to run for cover.

"Scared to death"

Donna Burt and Kristy Shalotski, both 16, were walking along Falconer Drive when they saw "a big gush of spinning wind" heading toward them.

"We saw the twister in the air with all the debris circling inside it," said a shaken Burt.

"We were scared to death so we ran home. We didn't know what else to do."

Shalotski said it looked as if

the twister were moving along the streets between the townhouses.

"It was really twisting," she said. "It was going around and around . . . coming right for us."

"My first thought was whether it would catch us, and then I thought about what had happened in Barrie and hoped it didn't happen to us."

Chris Turner, a 24-year-old insurance agent, was working on the lawn of his Falconer Drive home when it suddenly turned dark and began to rain.

He saw the twister touch down on the lane in front of his home.

"Barrie came to mind right away so I charged into the house and got my family in the basement."

Saw it coming

Turner said he can "really sympathize" with the tornado victims in central Ontario.

"It's unbelievable," he said. "You head for your basement and wonder if anything will be left when you come up."

Tom Goving, 33, Turner's next door neighbor, said he saw the twister coming across the parking lot from his front door.

"There was no warning. The only way you could tell there was a funnel was by all the debris floating around."

Don Campbell and his wife Joan barely escaped injury when a piece of fencing smashed through their kitchen window.

The couple had just sat down at the table to eat a sandwich and some soup when the window blew in.

"There was glass in our milk and in our sandwich but it didn't seem to cut us," Joan said.



The pair had just moved from Montreal on Thursday.

"We've met all our neighbors today because they came to see if they could help," she said.

John Speziale, a neighbor across the street, said he watched a funnel cloud heading toward his home and he yelled to his two sons, age 5 and 8, to head for the basement.

Blew open

He said his 8-year-old was terrified because he knew of the Barrie tornado and his classmates at school had talked about how people were killed and homes destroyed.

Speziale said his front door blew open and he struggled to close it in the high wind.

Mississauga firefighters received the first call at 1.58 p.m. concerning damage from tornado winds on Steen Drive. A spokesman said they then received a flood of calls, including a report that the roof had been blown from a jewelry manufacturing plant on Campobello Rd.

Fire Chief Gord Bentley estimated damage to the factory at \$150,000 and another \$80,000-\$100,000 to 17 homes in a newly constructed subdivision off Creditview Rd., just south of Highway 401.

Cleaned debris

There was other damage to some homes and townhouses in the Falconer Drive area.

Bentley said eight fire trucks were dispatched to the area and firefighters helped residents clean up debris and patch roofs.

"It could have been a heckuva lot worse," Bentley said, recalling the damage in Barrie.

The storm knocked out power over a wide area of Streetsville and Peel police directed traffic at various intersections.

Mayor Hazel McCallion said residents are "fortunate, lucky and thankful" that it wasn't more serious.

McCallion said she was standing in her kitchen and saw "a big, black cloud" covering the area.

"I thought to myself an electrical storm is coming and it was going to hit hard. The hydro went off and I couldn't get any radio reports. I couldn't imagine it was a tornado," she said.

McCallion contacted

McCallion was later contacted by fire department officials and visited various areas to inspect damage and talk to residents.

She said there was probably no need for any consideration of disaster relief since all damage likely would be covered by insurance.

Officials received a weather watch, and a check with the airport weather office gave them a recorded announcement saying there was a 40% chance of rain.

Ron Hubers, an Environment Canada supervisor, noted late yesterday: "It's pretty fair to say that twisters of the type that touched down in the Streetsville area are just about an annual visitor to the Metro area.

"If you go back over the past five or six years," he said, "you'll find that we've had about seven minor ones - more or less similar than the one we had today."

"Tornado alley"

While southern Ontario doesn't have a "tornado alley" similar to the midwestern United States, Hubers said, most of our most severe tornadoes strike well away from the lakes. Tornadoes passing over water lose most of their heat and dissipate, and that

effect is one of the reasons few tornadoes have much effect on centres lying on the Great Lakes. "That leaves southwestern Ontario, where the most devastating effects are recorded," he said.

The Ontario Weather Centre issued a tornado warning at 1.55 p.m. - replacing the severe weather watch issued earlier - for Metro Toronto, southern Halton, southern Peel, Hamilton-Wentworth and Brantford - and moments after 2 p.m. the tornado touched down, he said.

**[Illustration]**

Caption: Star photos (Cooper, Regan, Griffin) storm damage

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