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**Confirmed Tornado  
Guelph, Ontario  
June 30, 1998**

**Date- Local:** Tuesday, June 30<sup>th</sup>, 1998

**UTC:** Tuesday, June 30<sup>th</sup>, 1998

**Time- Local:** 0630

**UTC:** 1030

**Location:** Guelph

**Region:** Waterloo-Wellington

**Classification:** Confirmed Tornado

**Category:** A

**Casualties:** None

**Track Length:** 1000 m

**Width:** None available

**Motion:** None available

**Damage Estimate:** None available

**F-Scale Rating:** F1

**Code:** AH

**Damage Survey:** None

**Spotter Reports:** None

**Other Documents:**

Storm Report by Paul Ford

18 Original photographs

6 Original slides

Newspaper Articles

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## **Tornado F-Scale Assessment**

Sarah J. Sriver

Tornado Research Assistant, Environment Canada

June 23, 2004

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**Classification:** Confirmed Tornado

**Date:** Tuesday, June 30<sup>th</sup>, 1998

**Location:** Guelph, Waterloo-Wellington Region

**Assessment:** F1

**F-Code:** AH

**Explanation of Assessment:** Partial structural failure of roof on residential home; pieces of the roof removed. Objects from the top floor blown some distance.

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*SJS*

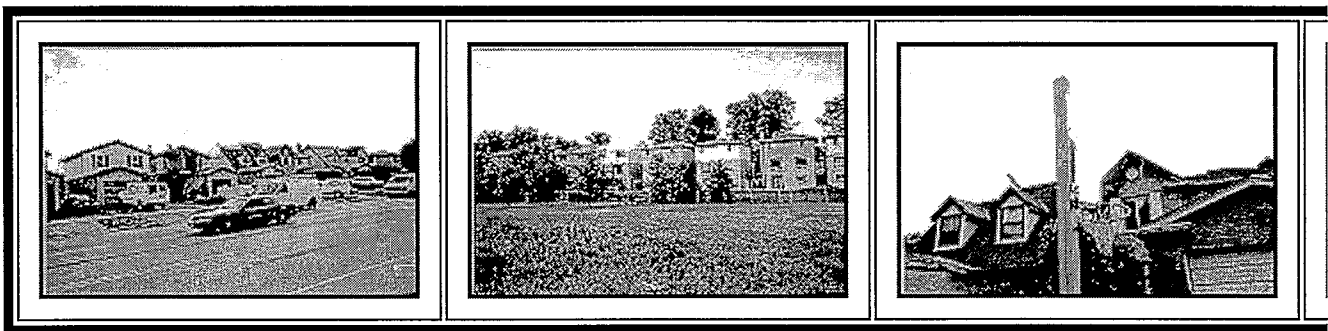
# F2 Tornado in Guelph - June 30/98

by Paul Ford

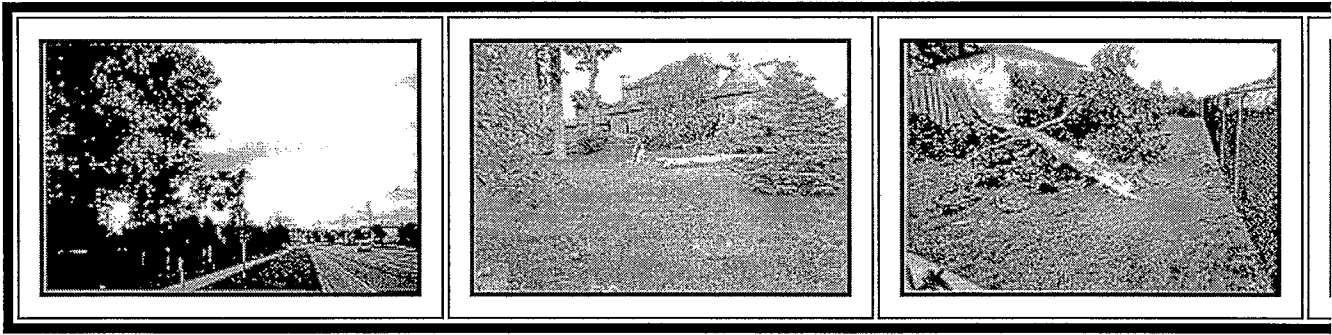
## SUMMARY

This event occurred on June 30<sup>th</sup>, 1998 at 10:00 UTC in Guelph, Ontario. There were no reports of hail and no tornados were sighted, however tornadic damage was verified in the area. From this damage it is estimated that a tornado of F2 intensity on the Fujita Scale, touched down in the vicinity of southern Guelph. The tornado's damage path tracked eastward for approximately one kilometer before lifting back to the cloud base. Minor damage was inflicted upon several homes and many large trees were split and knocked over. There was a lack of general wind damage in the neighborhood, although there were three severe, isolated damage sites along the tornado's 1km track.

## DAMAGE SITE#1



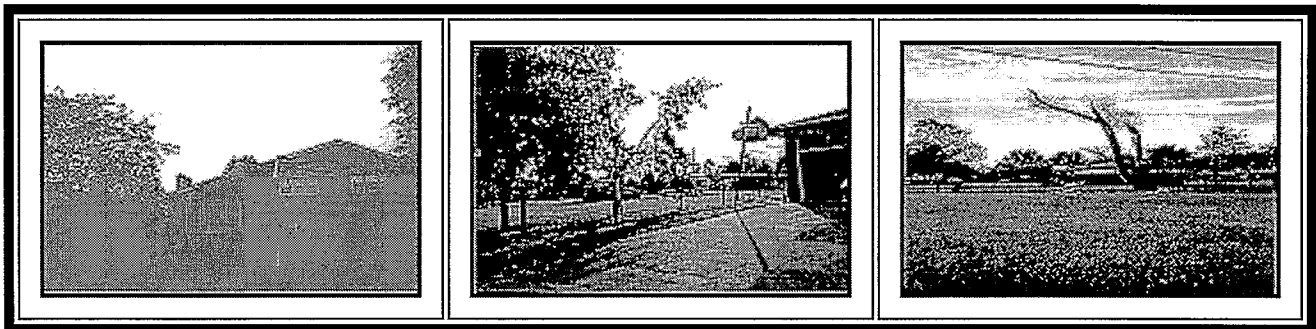
Three houses in a row on the west side of Edinburgh Road (starting from the right side of the left photo above: No's 545, 547 & 549) had extensive roof damage. The home's shingles were completely ripped off as well as substantial sections of the roof's underlay. Some of the contents of the top floors were even removed and deposited in the yards. A metal picnic table was removed from a back deck and was lost. That is to say that it could not be found in the immediate vicinity of the homes nor anywhere else at last report. Four large trees across the road were twisted and toppled over.



View map to see the exact location of damage site#1 in Guelph.

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### DAMAGE SITE#2

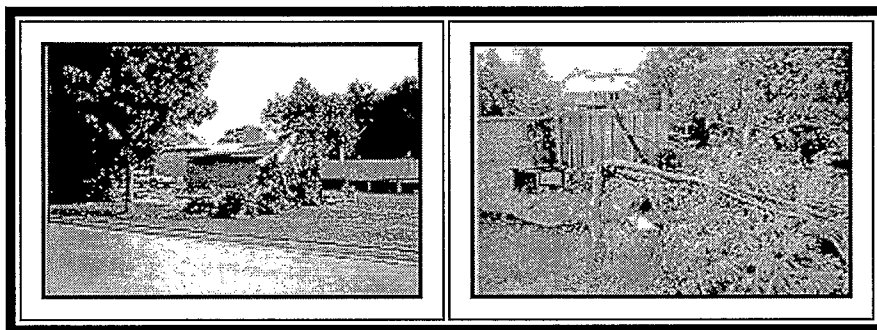


Some missing shingles and siding on a house at Gryphon Place, about 100 meters east of the first event.

View map to see the exact location of damage site#2 in Guelph.

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### DAMAGE SITE#3



The roof of a house was torn off and dropped in the garden to the side of the home. This occurred on Oak Street, which is just west of Gordon Street, or about 1km east of the first site. A large tree was uprooted just to the west of this.

View [map](#) to see the exact location of damage site#3 in Guelph.

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Environment  
Canada

Environnement  
Canada

Date of Survey : 30/06/98

Time of Survey : 21:30 (UTC)

Surveyor : Paul Ford

*Page designed by Steven C. Wirth*

**Spotter Reports, June 30, 1998**

**CLASSIFICATION:** Severe Thunderstorm **SOURCE/WATCHER ID:** EVENT TIME (UTC): 10-30  
**EVENT DAY:** 30.0 **MONTH:** 6.0 **YEAR:** 1998.0 **EVENT DURATION (HR):** 0.0 (MIN): 30.0 **DAY**  
**OF THE WEEK:** **EVENT LOCALE:** Guelph - South End (Stone Road Mall Area)Info **ASOCTD**  
**PUBLIC RGN:** WATERLOO-WELLINGTON-DUFFERIN **DETAILED DESCRIPTION:** "Three (3)  
houses damaged .. 545, 547, 549 Edinburgh Road S. Several other homes damaged on Oak Street.. Just W  
of first three houses. Info came from (not kidding!)..Cathy Kuehni 01 Laurelwood Ct., 821-0206"  
**INITIAL ASSESSMENT:** YES **SPL WX STATEMENT IN EFFECT ?:** UKN **STATEMENT LEAD**  
**TIME (HR):** (MIN): **WATCH IN EFFECT ?:** NO **WATCH LEAD TIME (HR):** (MIN): **WARNING**  
**IN EFFECT ?:** YES **WARNING LEAD TIME (HR):** (MIN): **TORNADO:** F2 **WINDSPEED:**  
**RAINFALL:** MM **RAIN DURATION:** **HAIL DIAMETER:** MM **HAIL DESCRIPTION:** **EVENT**  
**DESCRIPTION:** Tornado **Mesoscale ?:** YES **Synoptic ?:** NO **Big Event ?:** YES **Statement Est**  
**Hit/Miss:** UKN **Watch Est Hit/Miss:** NO **Warning Est Hit/Miss:** YES **Separate Event (30km/30min):**  
**YES Vetted by:** mjl-event **Vetted date:** 30/11/98

**CLASSIFICATION:** Severe Thunderstorm **SOURCE/WATCHER ID:** Broadcast News **EVENT TIME**  
**(UTC):** 10-30 **EVENT DAY:** 30.0 **MONTH:** 6.0 **YEAR:** 1998.0 **EVENT DURATION (HR):** 0.0  
(MIN): 30.0 **DAY OF THE WEEK:** **EVENT LOCALE:** Guelph **ASOCTD PUBLIC RGN:** Waterloo-  
Wellington-Dufferin **DETAILED DESCRIPTION:** "Possible tornado." **INITIAL ASSESSMENT:** NO  
**SPL WX STATEMENT IN EFFECT ?:** UKN **STATEMENT LEAD TIME (HR):** (MIN): **WATCH**  
**IN EFFECT ?:** UKN **WATCH LEAD TIME (HR):** (MIN): **WARNING IN EFFECT ?:** YES  
**WARNING LEAD TIME (HR):** (MIN): **TORNADO:** POSSIBLE **WINDSPEED:** **RAINFALL:** MM  
**RAIN DURATION:** **HAIL DIAMETER:** MM **HAIL DESCRIPTION:** **EVENT DESCRIPTION:**  
Tornado **Mesoscale ?:** YES **Synoptic ?:** NO **Big Event ?:** YES **Statement Est Hit/Miss:** UKN **Watch**  
**Est Hit/Miss:** NO **Warning Est Hit/Miss:** YES **Separate Event (30km/30min):** NO **Vetted by:** CM  
**Vetted date:** 05/07/1998

**CLASSIFICATION:** Severe Thunderstorm **SOURCE/WATCHER ID:** Kitchner/Waterloo Record  
**EVENT TIME (UTC):** 09-30 **EVENT DAY:** 30.0 **MONTH:** 6.0 **YEAR:** 1998.0 **EVENT DURATION (HR):** 0.0 **(MIN):** 0.0 **DAY OF THE WEEK:** **EVENT LOCALE:** Guelph ASOCTD **PUBLIC RGN:** Waterloo-Wellington-Dufferin **DETAILED DESCRIPTION:** "The Kitchner-Waterloo Record reports that the Guelph Fire Department says that "there are some trees down & there is some roof damage in Guelph".  
**INITIAL ASSESSMENT:** NEAR-SEVERE **SPL WX STATEMENT IN EFFECT ?:** UKN  
**STATEMENT LEAD TIME (HR): (MIN):** **WATCH IN EFFECT ?:** NO **WATCH LEAD TIME (HR): (MIN):** **WARNING IN EFFECT ?:** YES **WARNING LEAD TIME (HR): (MIN):** **TORNADO:** F2 **WINDSPEED:** **RAINFALL:** MM **RAIN DURATION:** **HAIL DIAMETER:** MM **HAIL DESCRIPTION:** **EVENT DESCRIPTION:** Tornado **Mesoscale ?:** YES **Synoptic ?:** NO **Big Event ?:** YES **Statement Est Hit/Miss:** UKN **Watch Est Hit/Miss:** NO **Warning Est Hit/Miss:** YES **Separate Event (30km/30min):** YES **Vetted by:** CM **Vetted date:** 05/07/1998

**CLASSIFICATION:** Severe Thunderstorm **SOURCE/WATCHER ID:** Rob Kuhn **EVENT TIME (UTC):** 09-30 **EVENT DAY:** 30.0 **MONTH:** 6.0 **YEAR:** 1998.0 **EVENT DURATION (HR):** 0.0 **(MIN):** 0.0 **DAY OF THE WEEK:** **EVENT LOCALE:** Cambridge & South of Kitchner ASOCTD **PUBLIC RGN:** Waterloo-Wellington-Dufferin **DETAILED DESCRIPTION:** "Heard radio report of trees down in Cambridge & South of Kitchner." **INITIAL ASSESSMENT:** NEAR-SEVERE **SPL WX STATEMENT IN EFFECT ?:** UKN **STATEMENT LEAD TIME (HR): (MIN):** **WATCH IN EFFECT ?:** NO **WATCH LEAD TIME (HR): (MIN):** **WARNING IN EFFECT ?:** YES **WARNING LEAD TIME (HR): (MIN):** **TORNADO:** NO **WINDSPEED:** **RAINFALL:** MM **RAIN DURATION:** **HAIL DIAMETER:** MM **HAIL DESCRIPTION:** **EVENT DESCRIPTION:** Wind **Mesoscale ?:** YES **Synoptic ?:** NO **Big Event ?:** YES **Statement Est Hit/Miss:** UKN **Watch Est Hit/Miss:** NO **Warning Est Hit/Miss:** YES **Separate Event (30km/30min):** NO **Vetted by:** CM **Vetted date:** 05/07/1998

**CLASSIFICATION:** Severe Thunderstorm **SOURCE/WATCHER ID:** Rob Kuhn **EVENT TIME (UTC):** 09-30 **EVENT DAY:** 30.0 **MONTH:** 6.0 **YEAR:** 1998.0 **EVENT DURATION (HR):** 0.0 **(MIN):** 0.0 **DAY OF THE WEEK:** **EVENT LOCALE:** Cambridge ASOCTD **PUBLIC RGN:** Waterloo-Wellington-Dufferin **DETAILED DESCRIPTION:** "Trees are down at Milson and Hwy 25 in Cambridge" **INITIAL ASSESSMENT:** NEAR-SEVERE **SPL WX STATEMENT IN EFFECT ?:** UKN **STATEMENT LEAD TIME (HR): (MIN):** **WATCH IN EFFECT ?:** NO **WATCH LEAD TIME (HR): (MIN):** **WARNING IN EFFECT ?:** YES **WARNING LEAD TIME (HR): (MIN):** **TORNADO:** NO **WINDSPEED:** **RAINFALL:** MM **RAIN DURATION:** **HAIL DIAMETER:** MM **HAIL DESCRIPTION:** **EVENT DESCRIPTION:** Wind **Mesoscale ?:** YES **Synoptic ?:** NO **Big Event ?:** YES **Statement Est Hit/Miss:** UKN **Watch Est Hit/Miss:** NO **Warning Est Hit/Miss:** YES **Separate Event (30km/30min):** YES **Vetted by:** CM **Vetted date:** 05/07/1998

**CLASSIFICATION:** Severe Thunderstorm **SOURCE/WATCHER ID:** **EVENT TIME (UTC):** 10-00 **EVENT DAY:** 30.0 **MONTH:** 6.0 **YEAR:** 1998.0 **EVENT DURATION (HR):** 0.0 **(MIN):** 30.0 **DAY OF THE WEEK:** **EVENT LOCALE:** Ayr to Guelph ASOCTD **PUBLIC RGN:** WATERLOO-WELLINGTON-DUFFERIN **DETAILED DESCRIPTION:** "The storm brought down some large trees in the Town." **INITIAL ASSESSMENT:** YES **SPL WX STATEMENT IN EFFECT ?:** UKN **STATEMENT LEAD TIME (HR): (MIN):** **WATCH IN EFFECT ?:** NO **WATCH LEAD TIME (HR): (MIN):** **WARNING IN EFFECT ?:** YES **WARNING LEAD TIME (HR): (MIN):** **TORNADO:** NO **WINDSPEED:** **RAINFALL:** MM **RAIN DURATION:** **HAIL DIAMETER:** MM **HAIL DESCRIPTION:** **EVENT DESCRIPTION:** WIND **Mesoscale ?:** YES **Synoptic ?:** NO **Big Event ?:** YES **Statement Est Hit/Miss:** UKN **Watch Est Hit/Miss:** YES **Warning Est Hit/Miss:** YES **Separate Event (30km/30min):** YES **Vetted by:** mjl- event wrn lead >30 **Vetted date:** 18/11/98