UPDATED

Confirmed Tornado
Stayner - Brentwood, Ontario
June 12, 1954

Date- Local: Monday, June 12th, 1954
UTC: Monday, June 12th, 1954
Time- Local: 1700
UTC: 2100
Location: Stayner - Brentwood
Region: Barrie - Orillia - Midland
Classification: Confirmed Tornado
Category: -999
Casualties: None
Track Length: 14560 m
Width: None available
Motion: 305 degrees
Damage Estimate: $20000
F-Scale Rating: F1
Code: BS
Damage Survey: None
Spotter Reports: Yes
Other Documents:
Newspaper article providing details on the event and damages
Two maps, one indication general location the other providing detailed tornado track
Newark summary sheet

Tornado F-Scale Re-Assessment

Brad L. Rousseau
Tornado Data Production Assistant, Environment Canada
January 27th, 2011

Classification: Confirmed Tornado
Date: Monday, June 12th, 1954
Location: Stayner – Brentwood, Barrie - Orillia – Midland Region

Original Assessment: F0
Re-Assessment: F1
F-Code: BS
Explanation of Assessment: Barn and implement shed destroyed which constitutes F1 rating according to the Wind Damage Rating table.

SJS

A

TORNADO PROJECT SUMMARY SHEET

JUNE

F=0 ONT

1. DATE AND TIME 12.6.1954 "SUPPER TIME"

2. LOCATION OR PATH (attach map)

STAYNER TO BRENTWOOD 06954-04

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

4. PATH WIDTH UNKNOWN 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 $20,000 11. TOTAL DEATHS NONE

12. TOTAL INJURED NONE 13. TOTAL HOMELESS NONE

14. LIST ALL REFERENCES

TORONTO DAILY STAR, JUNE 14 1954

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

(a) TOM DUMOND SAW "A GREAT BLACK CONE"

(b) ROOFS RIPPED OFF BARNS, A CAR CONTAINING TWO MEN TOSSED INTO A RIVER. BOTH CRAWLED UNHURT FROM THEIR HALF SUBMERGED VEHICLE. A 6 YEAR OLD GIRL PLUCKED FROM THE FRONT SEAT OF ANOTHER CAR AND BOWLED ALONG THE GROUND 20 FEET.

WORKSHEET 0695404

ORIGIN x 17572500
y 4919300

C 1500 m
Standard Error S_x

LIFT-OFF x_1 17585000
y_1 4910000

Standard Error S_y
C 1000 m

$(x_1 - x)$ = 12500
$(y - y_1)$ = 9300

DAMAGE LENGTH

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

= 15580 m

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

= 1803

$$\beta = \frac{S_L}{57.29 L}$$

= 7°

$$\alpha = \tan^{-1} \frac{|y - y_1|}{|x - x_1|} = 36.6^\circ$$

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

SE quad $\phi = 90 + \alpha$

ϕ = 307°


BEARS RUMP ISLAND
COLE ISLAND
FLOWERPOT I.
Georgian Bay Islands Nat'l Park
Cyprus Lake Prov. Park
CAPE HURD
BRUCE TRAIL
CABOT HEAD
BRUCE PENINSULA
Tobermory
Brinkman Corners
Dyer Bay
Miller Lake
CAPE CHIN
Cape Chin
Monument Corners
Stokes Bay
Lion's Head
GREENOUGH PT.
Ferndale
LYAL ISLAND
Spry
Barrow Bay
CAPE CROKER
Cape Croker
HURON
Pike Bay
HAY ISLAND
Howdenvale
Adamsville
Purple Valley
Mar
Red Bay
GRIFFITH ISLAND
WHITE CLOUD I.
Oxenden
CAPE COMMODORE
Oliphant
Wiarton
Boat L.
Kemble
Sauble Falls Prov. Park
Clavering
Tolmie
Hepworth
Sauble Beach
E. Linton
CAPE RICH
Balaclava
Camp Meaford Tank Range
Shallow Lake
Leith
Park Head
Annan
Springmount
Meaford
Chippawa Hill
Southampton
Allenford
Elsinore
Alvanley
Owen Sound
Woodford
Thornbury
Clarksburg
Craigleith Prov. Park
Port Elgin
Arkwright
Tara
Kilsyth
Rockford
Bognor
Keady
Walters Falls
Blantyre
Burgoyne
Chatsworth
Heathcote
Craigleith
North Bruce
Goring
Holland Centre
Rocklyn
Havenna
Nottawa
Duncan
Kimberley
Dobbinton
Desboro
Williamsford
Inverhuron Prov. Park
Underwood
Paisley
Berkeley
Duntroon
Stayner
Singhampton
Devils Glen Prov. Park
Tiverton
Chesley
Dornoch
Markdale
Eugenia
Feversham
Glammis
Pinkerton
Malcolm
Elmwood
Maxwell
Millarton
Cargill
Chepstow
Dundalk
Proton Station
Priceville
Durham
Hanover
Walkerton
Carlsruhe
Varney
Neustadt
Hopeville
Corbetton
Kinloss
Greenock
Riversdale
Holyrood
Formosa
Ripley
Mildmay
Ayton
Holstein
Maple Lane
Kingscote
Lucknow
Teeswater
Ambleside
Letterbreen
Shelburne
Jessopville
Cedarville
Belmore
Clifford
Drew
Mount Forest
Conn
Monticello
Whitechurch
Wingham
Wroxeter
Gorrie
Harriston
Dunsannon
Bluevale
Fordwich
Kenilworth
Damascus
Auburn
Belgrave
Palmerston
Teviotdale
Grand Valley
Molesworth
Rothsay
Arthur
Blyth
Brussels
Moorefield
Drayton
Parker
Belwood
Londesborough
Ethel
Listowel
Walton
Hillsburgh
Orton
Atwood
Alma
Salem
Elora
Fergus
Ospringe
Clinton
Traleo
Dorking
Seaforth
Monkton
Donegal
Newton
Linwood
Wallenstein
Elmira
Brodhagen
Milverton
Bornholm
Millbank
Hawkesville
West Montrose
Dublin
Poole
Crosshill
St. Jacobs
Conestogo
Brunner
Mitchell
Gads Hill
St. Clements
Bloomingdale
Staffa
Wellesley
Erbsville
Waterloo
Kitchener
Bridgeport
Breslau
Hespeler
Russeldale
Fullarton
Sebringville
Amulree
Petersburg
Baden
Exeter
Stratford
Shakespeare
New Hamburg
Doon
Preston
Puslinch
Kirkton
Woodham
Centralia
Haysville
New Dundee
Blair
Galt
Freelton
Carlisle
Rannoch
St. Mary's
Tavistock
Plattsville
Granton
Lucan
Hickson
Bright
Ayr
Branchton
Sheffield
Waterdown
Clappisons
Corners
Aisla Craig
Elginfield
Belton
Innerkip
Drumbo
St. George
Peters Corners
Rockton
Dundas
Bryanston
Lakeside
Kintore
Embro
Princeton
Paris
Lynden
Ancaster
Hamilton
Woodstock
Thorndale
Eastwood
Jerseyville
Alberton
Duff Corners
Grimsby Beach
Stoney Creek
Winona
Brantford
Beachville
Burford
Cairnsville
Grimsby
Arva
Thamesford
Cathcart
Onondaga
Beamsville
Vineland
Lobo
Ingersoll
Ohsweken
Fulton
Jordan
Jordan Sta.
St. Davids
St. Catharines
Niagara-on-the-Lake
Fort George
Virgil
Youngstown
Cambria
Queenston
London
Dorchester
Putnam
Burgessville
Caledonia
Binbrook
Smithville
Campden
Thorold
Lewiston
Nilestown
Salford
Mt. Pleasant
Harley
Scotland
Oakland
Castor Centre
York
St. Anns
Allanburg
Niagara Falls
Lambeth
Norwich
Mount Elgin
Belmont
Harrietsville
Mossley
Otterville
Springford
Teeterville
Vanessa
Waterford
Hagersville
Canfield
Caistorville
Bismarck
Fenwick
Port Robinson
Chippawa
Glanworth
Avon
Springfield
Tillsonburg
Windham Centre
Nelles Corners
Canboro
Wellandport
Welland
Southwold
Talbotville
Brownsville
Tourlandt
Renton
Cayuga
Chambers Corners
Dunnville
Wainfleet
Stevensville
Fort Erie
St. Thomas
Corinth
Delhi
Nixon
Jarvis
Fisherville
S. Cayuga
Port Maitland
Lowbanks
Port Colborne
Ridgeway
Crystal Beach
Aylmer
Eden
Lynedoch
Atherton
Simcoe
Nanticoke
Selkirk
Solkirk Prov. Park
Peacock Point
Rock Point Prov. Park
Long Beach
Port Stanley
Union
Sparta
Dunboyne
Glen Meyer
Langton
Vittoria
Port Dover
Port Talbot
Port Bruce Prov. Park
Copenhagen
Lakeview
Vienna
Kingsdale
Normandale
Port Ryerse
John E. Pearce Prov. Park
Port Bruce
Port Burwell
Iroquois Beach Prov. Park
Walsingham
Turkey Point
Turkey Point Prov. Park
St. Williams
Port Rowan
Clear Creek
Long Point Park
Long Point Prov. Park
LONG POINT
Shawanaga
Brooks Landing
Shebeshekong
Carling
Nobel
Snug Harbour
FRANKLIN I.
Killbear Provincial Park
Parry Sound
Depot Harbour
Oastler Lake Prov. Park
SANDY I.
PARRY ISLAND
THIRTY THOUSAND ISLANDS
MOON I.
Manitou Dock
Moon River
Mac Tier
Port Sandfield
Waubamik
Hurdville
Broadbent
Otter Lake
Humphry
Rosseau
Ullswater
Utterson
Windermere
Ufford
Port Carling
Orchard
Glen
Milford Bay
Bala
Torrance
Muskoka Beach
Sanitarium
Uffington
Vankoughnet
Beaumaris
Bracebridge
Purbrook
Fraserburg
Gravenhurst
Kilworthy
Kluevs Bay
Barkway
Houseys Rapids
Six Mile Lake Prov. Park
HOPE I.
GIANTS TOMB I.
BEAUSOLEIL
MUSKOKA LAKES
CHRISTIAN ISLAND
BECKWITH I.
Honey Harbour
Georgian Bay Islands Nat'l Park
Cedar Point
Thunder Beach
Lafontaine
Penetanguishene
Martyrs Shrine
Port McNicoll
Victoria Harbour
Waubaushene
Midland
Perkinsfield
Balm Beach
Ossossane Beach
Huron Indian Village
Ste. Marie Among the Hurons
Wyebridge
Fesserton
Coldwater
Port Severn
Severn Falls
Severn Bridge
Sparrow Lake
Kahshe Lake
Coopers Falls
Ragged Rapids
Washago
Sadowa
Uphill
Longford
Ardtrea
New Unthoff
Moonstone
Prices Corner
Orr Lake
Waverly
Wyevale
Elmvale
Allenwood
Wasaga Beach
Wasaga Beach Prov. Park
Hillsdale
Collingwood
Oakview Beach
Brocks Beach
Nottawa
Duntroon
Minesing
Springwater Prov. Park
Stayner
Devils Glen Prov. Park
Glen Huron
Creemore
Lowell
Brentwood
Barrie
Shanty Bay
Big Bay Point
Georgina Island
Sibbald Point Prov. Park
Port Bolster
Cannington
Manilla
Oakwood
Sunderland
Udora
Zephyr
Leaskdale
Greenbank
Uxbridge
Sharon
Holland Landing
Bradford
Queensville
Mount Albert
Newton Robinson
Alliston
Earl Rowe Prov. Park
Rosemont
Mansfield
Cookstown
Horning's Mills
Everett
Lisle
Thornton
Honeywood
Dunedin
Camp Borden Military Reserve
Glencairn
Angus
Stroud
Bell Ewart
Lefroy
Churchill
Keswick
Brown Hill
Gilford
Island Point Grove
Jacksons Point
Roches Point
Sutton
Baldwin
Petterlaw
Manilla
Orillia
Atherley
Dalrymple
Sebright
Bolsover
Fenelon
Gamebridge
Thorah
Beaverton
Lorneville
Woodville
Argyle
Glenarm
Victoria Rd.
Brechin
Kirkfield
Ragian
Port Perry
Burketon
Goodwood
Manchester
Armitage
Newmarket
Tottenham
Schomberg
Aurora
Oak Ridges
Stouffville
Ashburn
Myrtle
Ringwood
Gormley
Claremont
Columbus
Hampton
Brooklin
Greenwood
Whitby
Oshawa
Ajax
Bay Ridges
Richmond Hill
Green River
Brough
Markham
Pickering
Thornhill
Unionville
Maple
Nashville
Kleinburg
Sta.
Mono Road
Credit Forks
Inglewood
Caledon East
Caledon
Bolton
Nobleton
Palgrave
Kettleby
Mono Mills
Alton
Belfountain
Erin
Cheltenham
Terra Cotta
Victoria
Woodbridge
Shelgrove
Vaughan
Bramalea
Brampton
Georgetown
Glen Williams
Norval
Acton
Huttonville
Mississauga
Port Credit
Streetsville
Hornby
Milton
Campbellville
Aberfoyle
Morriston
Puslinch
Toronto
Ontario Place
Oakville
Shell Oakville Refinery
Burlington
QEW
CANADA
UNITED STATES
NEW YORK
ONTARIO
Niagara Falls
North Tonawanda
Lackawanna
East Aurora
Hamburg
Silver Creek
Dunkirk
Fredonia
Gowanda
Cattaraugus
Sinclairville
Little Valley
Conewango Valley
Great Valley
Barcelona
Westfield
Ripley
Mayville
North East
Erie
PENN.
N.Y.
THRUWAY
NEW YORK
81°
80°
To Cleveland
To Jamestown
To Jamestown
79°
To Salamanca
To Salamanca
5
6
7
8