A

TORNADO PROJECT SUMMARY SHEET

F-1

1. DATE AND TIME Tues Sept 21 '65 315 AST

2. LOCATION OR PATH (attach map) Lemeltine Siding to Medford N.B.

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

4. PATH WIDTH 200ft 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.) hail

10. TOTAL DAMAGE ESTIMATE $ 50,000 11. TOTAL DEATHS 0

12. TOTAL INJURED 1 13. TOTAL HOMELESS several

14. LIST ALL REFERENCES

Cape Breton Post
Sept 22 + 23 '65

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

- Storm zig zagged along a path 200ft wide
- Storm destroyed and uprooted homes, smashed barns and sheds, flattened hydro and telephone poles.
- one man treated and released from hospital after being cut from flying glass
- N.B. government conducted a study into the storm.

WORKSHEET

IDTO 04965-01

① ORIGIN x 19595500

y 5198000

⑤ Standard Error S_x

$0 = 1500$

② LIFT-OFF x_1 19599000

y_1 5195000

⑥ Standard Error S_y

$0 = 500$

③ $(x_1 - x) =$ 3500

④ $(y - y_1) =$ 3000

⑦ DAMAGE LENGTH

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

③+④ [→r,θ] = 4610

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

[x↔y] = 41

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

⑤+⑥ [→r,θ] = 1581

⑩ $\beta = \frac{\tan^{-1} S_L}{L}$

⑦+⑨ [→r,θ] [x↔y] = 20°

NE Quad $\phi = 90 - \alpha$

NW Quad $\phi = 270 + \alpha$

SW quad $\phi = 270 - \alpha$

SE quad $\phi = 90 + \alpha$

⑪ $\phi =$ 311 ~~229~~

Cape Breton Post: Sept 22 '65
Storm Date: Tuesday Sept. 21 '65

tornado ?

Freak Rain, Hail Storm

MEDFORD, N.B. (CP) — A freak rain and hail storm packing gale force winds struck this small Victoria County community Tuesday, damaging and destroying homes, uprooting trees and cutting communications.

One person was reported injured in the storm which left a path of destruction 200 feet wide from California Settlement on the Maine-New Brunswick border to Medford, about 10 miles to the east.

The winds hit here about 4:15 p.m. and subsided three minutes later.

Several homes disappeared during the storm. Others were made uninhabitable.

BLOWS BARN AWAY

A barn and garage were blown away on the farm of Henry Baker. The roof of the [illegible] home was lifted, a granary, poultry house and several sheds destroyed and a potato [illegible] damaged. A dog [illegible] on the property were also damaged.

Wilmot Baker, 28, was [illegible] hospital at [illegible] reported watching their barn flattened as a pick-up truck turned end over end in the yard, finally coming to rest on the barn wreckage. Their home was moved three feet off its foundation and all of its windows were broken.

Electricity was restored to the area about four hours after the storm struck. Telephone communications were still out late Tuesday night.

Illie Rioux of Grand Falls, N.B., a spokesman for the New Brunswick Electric Power Commission, said the storm's path "lay approximately 10 miles south of Grand Falls and it was heading east southeast when it appeared to die at Medford. Our reports indicated that it never came to life again."

A transport department weather office spokesman in Saint John, N.B., said storms of this type are caused by cumulonibus cloud formations—heavy thunderstorm clouds which cause hail, rain and severe winds in a small area. Activity in connection with such storms often reaches heights of 30,000 to 40,000 feet, he said.

two tornados

Cape Breton Post: Sept 23 '65 Tornado?

Storm Date: Tuesday Sept 21 '65

Gale Damage Is Assessed

MEDFORD, N.B. (CP)—Civil defence officials from Fredericton Wednesday began assessing damage unofficially estimated at more than $100,000 in the wake of a brief but furious gale that swept through a seven-mile area of western New Brunswick Tuesday.

J. A. Murray arrived on the scene early Wednesday to survey the damage. He was joined Wednesday night by J. A. Laidlaw, assistant director of civil defence for New Brunswick.

Municipal Affairs Minister Norbert Theriault said their findings are to be studied by the provincial government.

The gale, which lasted only three minutes in most areas it struck, crossed into New Brunswick from California Settlement on the Maine-New Brunswick border. Before it suddenly died, it had destroyed and uprooted homes, smashed barns and sheds and flattened hydro and telephone poles.

Wilson Baker, 28, was taken to hospital after being injured

(Continued on Page 2, Col. 4)

at the home of his parents here. He was treated for cuts received from flying glass and later released.

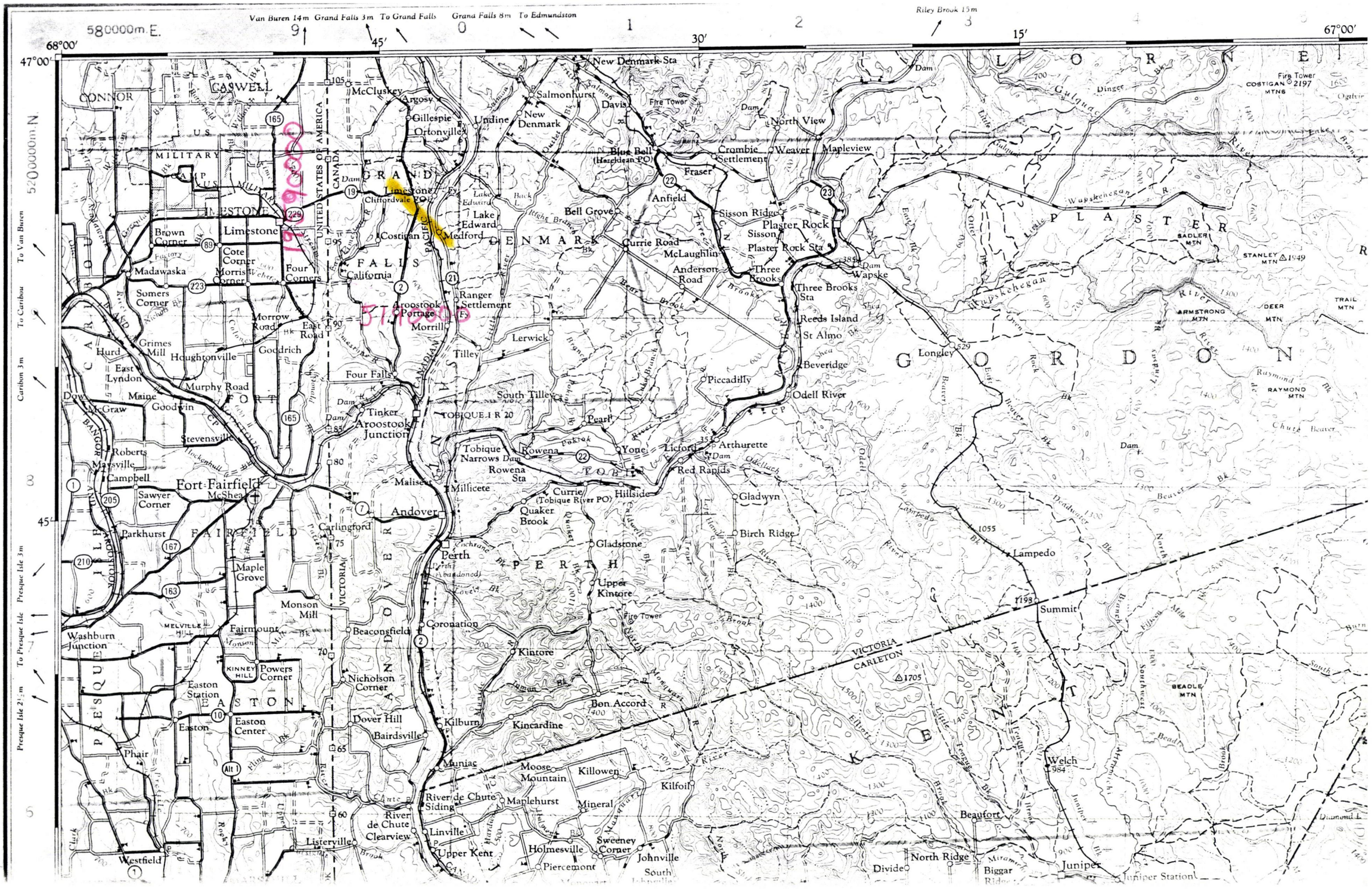
After creating minor damage in Limestone, Mr., the winds ripped into a series of small communities — California Settlement, Limestone Siding, Portage Road and finally Medford. All are 12-15 miles south of Grand Falls, N.B.

The storm zig-zagged along a path about 200 feet wide before it died here. It was accompanied by rain and hail.

Electricity and communications were knocked out for more than four hours.

Weather office spokesmen said the storm was caused by heavy thunderstorm clouds which bring hail, rain and severe winds in a small area.

two tornados


580000m.E.
Van Buren 14m Grand Falls 3m To Grand Falls
Grand Falls 8m To Edmundston
Riley Brook 15m
68°00'
45'
30'
15'
67°00'
47°00'
45'
To Van Buren
To Caribou
Caribou 3m
To Presque Isle
Presque Isle 3m
Presque Isle 21/2m
5200000m.N
CONNOR
CASWELL
MILITARY RESERVE
CAMP
LIMESTONE
Limestone
Brown Corner
Cote Corner
Morris Corner
Four Corners
Madawaska
Somers Corner
Morrow Road
East Road
Goodrich
Houghtonville
Grimes Mill
Hurd
East Lyndon
Murphy Road
Maine
Goodwin
Dow
McGraw
Stevensville
Roberts
Maysville
Campbell
Fort Fairfield
McShea
Sawyer Corner
Parkhurst
Maple Grove
Monson Mill
Washburn Junction
Fairmount
KINNEY HILL
Powers Corner
Easton Station
Easton
Easton Center
Phair
Westfield
Listerville
Nicholson Corner
Dover Hill
Beaconsfield
Carlingford
Andover
Malisett
Millicete
Four Falls
Tinker
Aroostook Junction
Aroostook Portage
Morrill
Tilley
Lerwick
Ranger Settlement
California
Costigan
Medford
Lake Edward
Limestone (Cliffordvale PO)
McCluskey
Argosy
Gillespie
Ortonville
Undine
New Denmark
New Denmark Sta
Salmonhurst
Davis
Fire Tower
North View
Blue Bell (Hazeldean PO)
Crombie Settlement
Weaver
Mapleview
Fraser
Anfield
Bell Grove
Sisson Ridge
Plaster Rock
Sisson
Plaster Rock Sta
Currie Road
McLaughlin
Anderson Road
Three Brooks
Three Brooks Sta
Reeds Island
St Almo
Beveridge
Longley
Piccadilly
Odell River
Arthurette
Red Rapids
Licford
Yone
Pearl
South Tilley
Tobique Narrows Dam
Rowena
Rowena Sta
Currie (Tobique River PO)
Hillside
Quaker Brook
Gladwyn
Birch Ridge
Gladstone
Perth
(Perth abandoned)
Upper Kintore
Coronation
Kintore
Fire Tower
Bon Accord
Kincardine
Kilburn
Muniac
Moose Mountain
Killowen
Kilfoil
Maplehurst
Mineral
River de Chute Siding
River de Chute
Clearview
Linville
Upper Kent
Holmesville
Piercemont
Sweeney Corner
Johnville
South Johnville
Divide
North Ridge
Biggar Ridge
Juniper
Juniper Station
Lampedo
Summit
Welch
Beaufort
Dingee
Gulquac
Wapskegan
Wapske
Dam
Fire Tower
COSTIGAN MTN 2197
SADLER MTN
STANLEY MTN 1949
ARMSTRONG MTN
DEER MTN
TRAIL MTN
RAYMOND MTN
BEADLE MTN
1705
1198
1055
529
385
CANADA
UNITED STATES OF AMERICA
CANADIAN PACIFIC
VICTORIA
CARLETON
GRAND FALLS
DENMARK
PERTH
ANDOVER
TOBIQUE I R 20
PLASTER ROCK
GORDON
NORTH
BAKER BROOK
BANGOR AND AROOSTOOK
Tobique River
Little Tobique River
Wapskegan River
Odell River
Beaver Brook
Quaker Brook
Caldwell Brook
Monquart River
Elliott Brook
Little Tobique River
Trout Brook
Cochrane Brook
Lovett Brook
Fling Brook
Rocky Brook
Cluck Brook
Hockenhull Brook
Shea Brook
Deadwater
Lampedo River
Chute Beaver
Raymond Brook
Southwest Miramichi River
Juniper Brook
Diamond L.

On July 4, 1957, a small tornado near Burnt Church in Northumberland County left a path of uprooted trees and demolished an abandoned schoolhouse, while 1 3/4-inch hailstones fell from associated thunderstorms. In the summer of 1960 roofs were ripped off several buildings by a small tornado at New Market in York County. On July 22, 1961, a hailstorm with stones up to 2 1/4-inches diameter swept through the Keswick Ridge area of York County, causing extensive injury to 75,000 bu. of apples. Earlier in the same month hailstorms on the 5th and 12th caused fruit damage in Carleton County.

In July 1963, a small tornado in eastern Carleton County uprooted and snapped off trees and demolished several abandoned farm buildings.

On September 21, 1965, a tornado in Victoria County demolished several dwellings at California Settlement, miraculously causing no serious injuries.

On May 22, 1966, a severe hail and rainstorm in Victoria County caused extensive damage to newly planted potato fields, much of it by erosion from the flash rains.