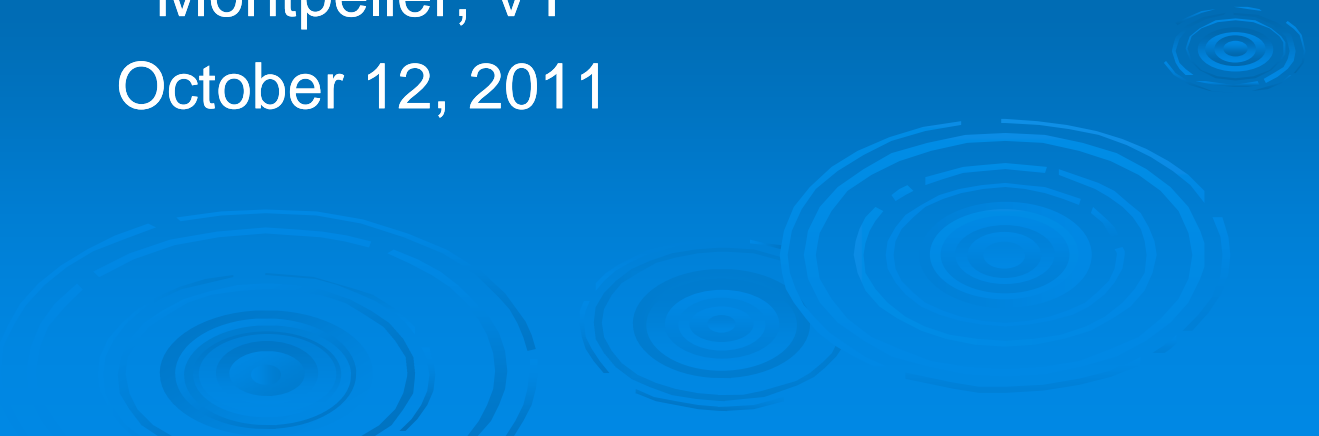


VTR, GMRC & Irene

Vermont Rail System Hurricane Irene Damage and Recovery

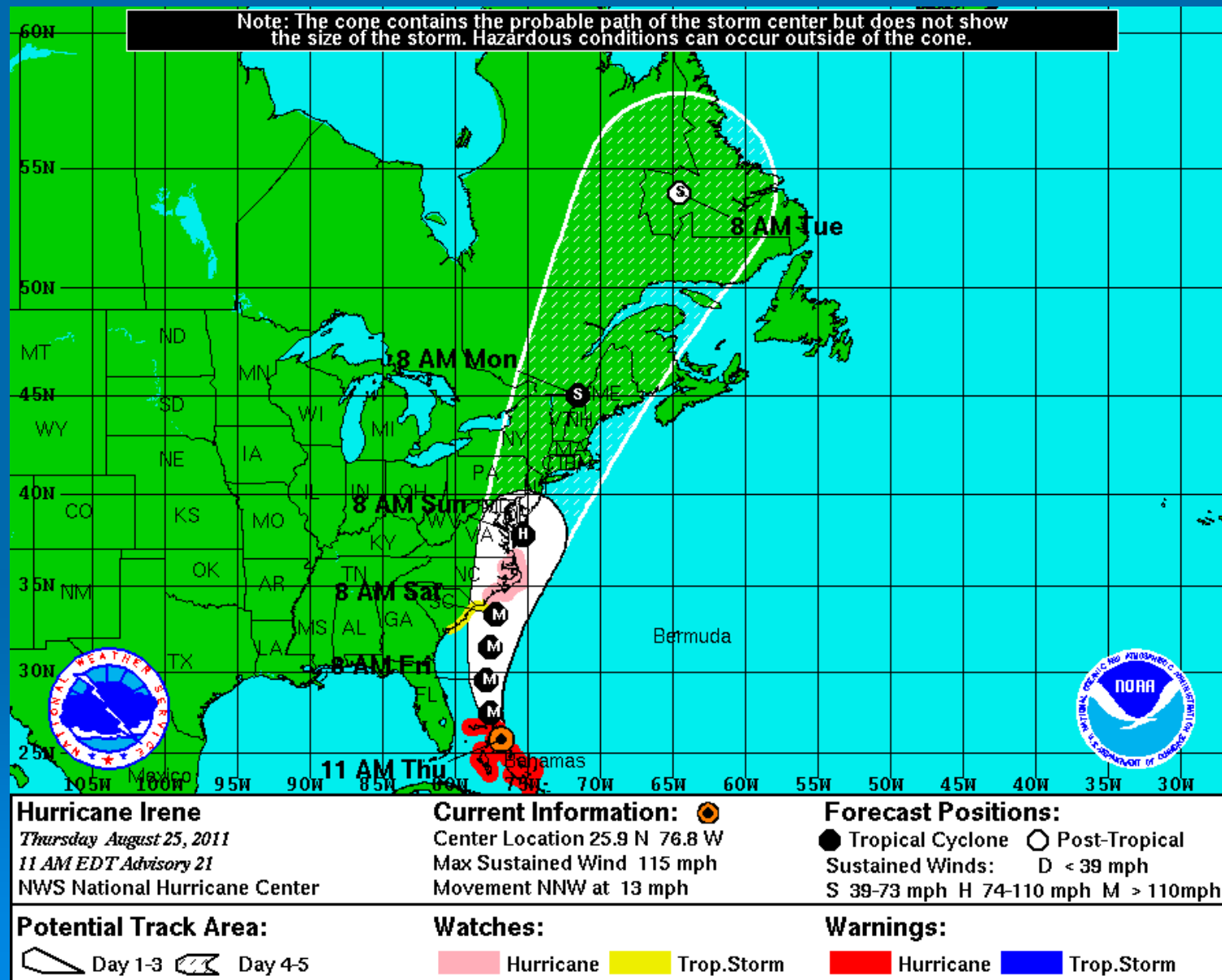
**Briefing Prepared for
Vermont State House and
Senate Transportation Committee
Montpelier, VT
October 12, 2011**



Agenda

- Overview – Irene's Impact on Vermont
- Impact on Vermont Rail System
- The Damage
- The Recovery
- Impact on customers

The Path of Irene



August 28 Irene Slams into New England



News Headlines After the Storm

**Hurricane Irene Hits Vermont: State Begins
Sorting Through Flooding After Storm**

**Tropical Storm Irene wreaks havoc in
southern Vermont**

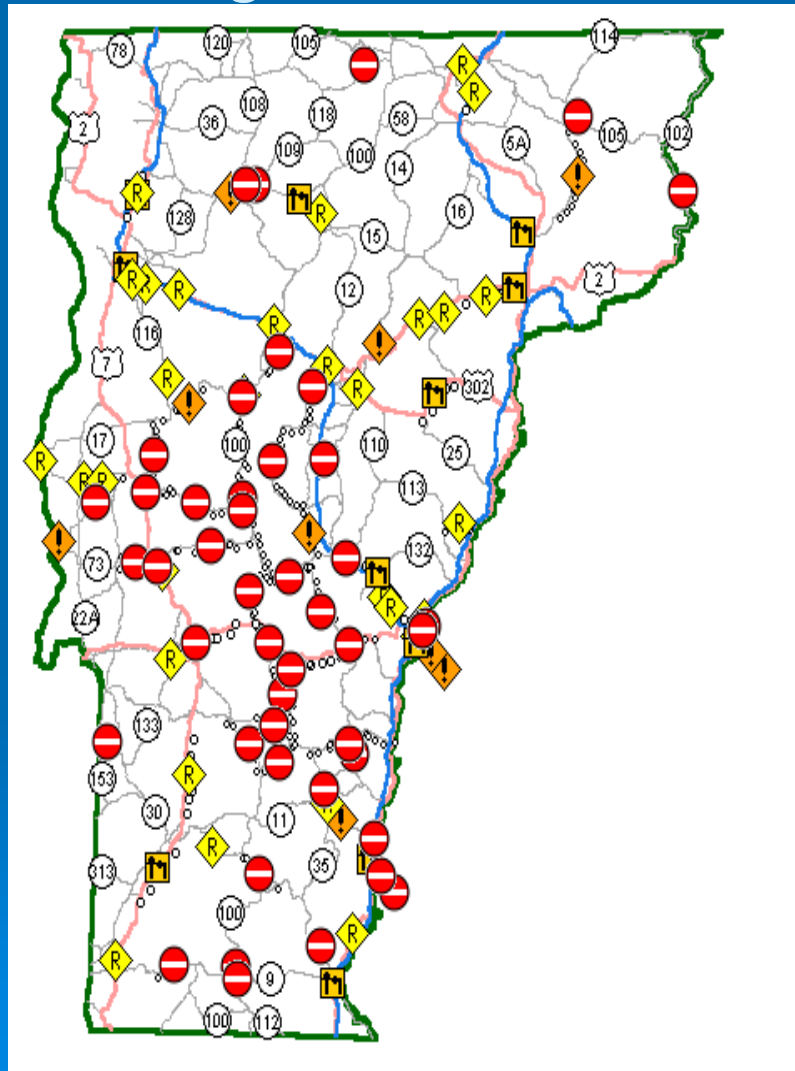
**Tropical Storm Irene slams Vermont with
heavy rains, flash flooding**

Airlifts planned to supply cut-off Vt. towns

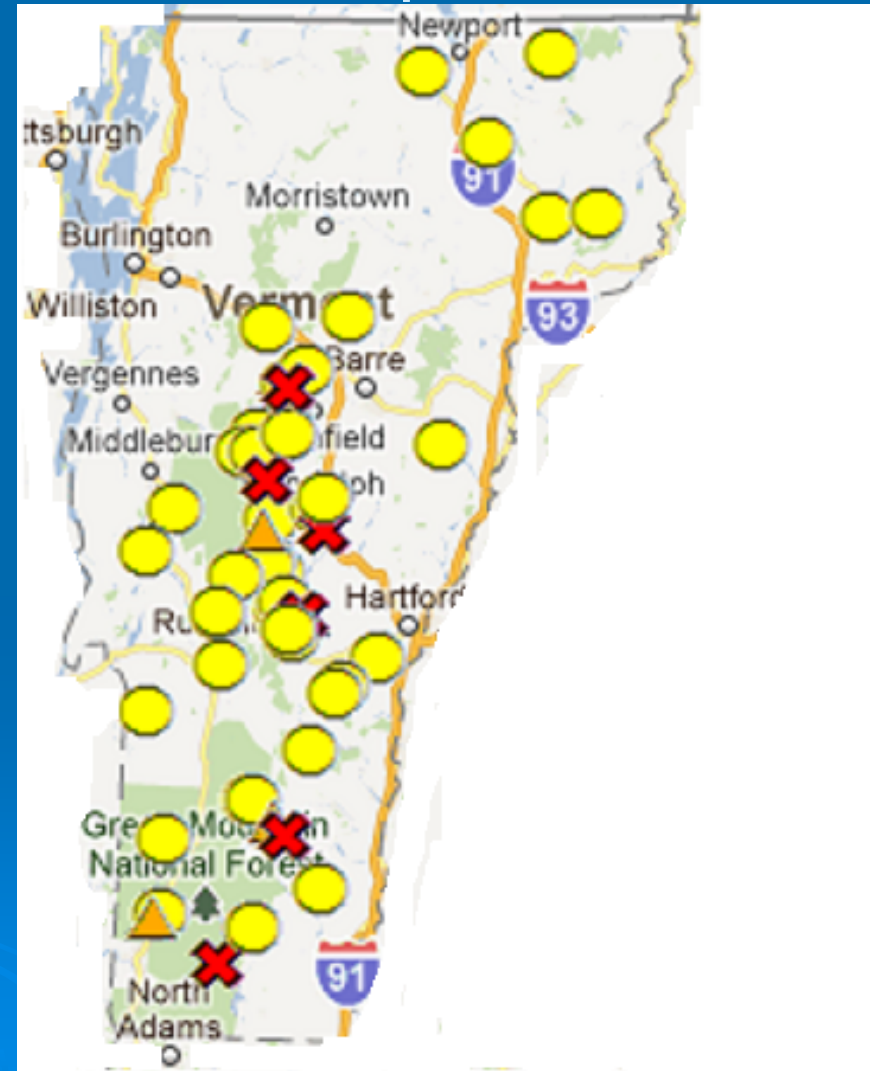


Vermont Road Closures

August 29



Sept 30

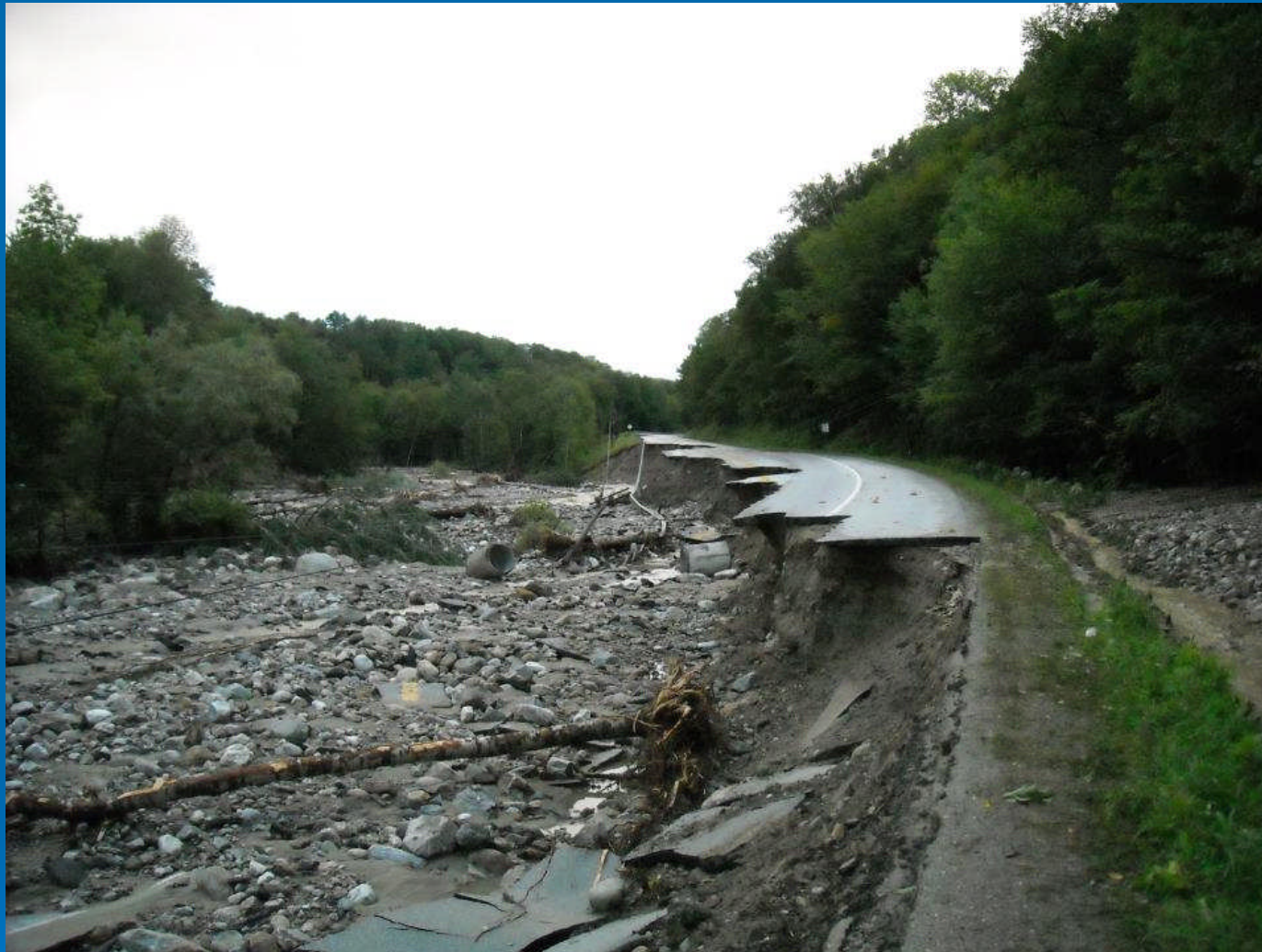




Highway Washouts Near Rutland



Route 4 between Killington, VT and Mendon, VT.



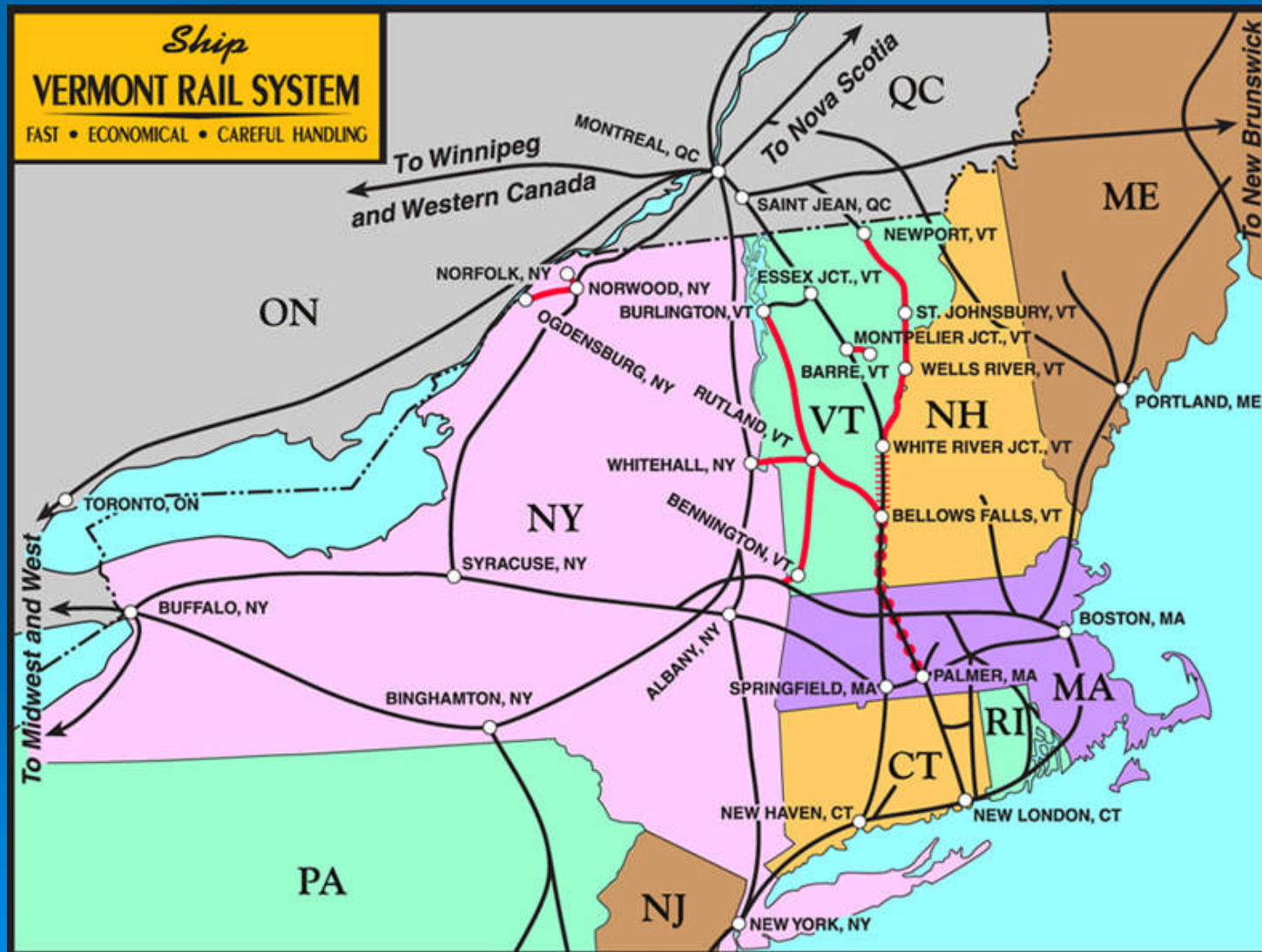
Southern, VT

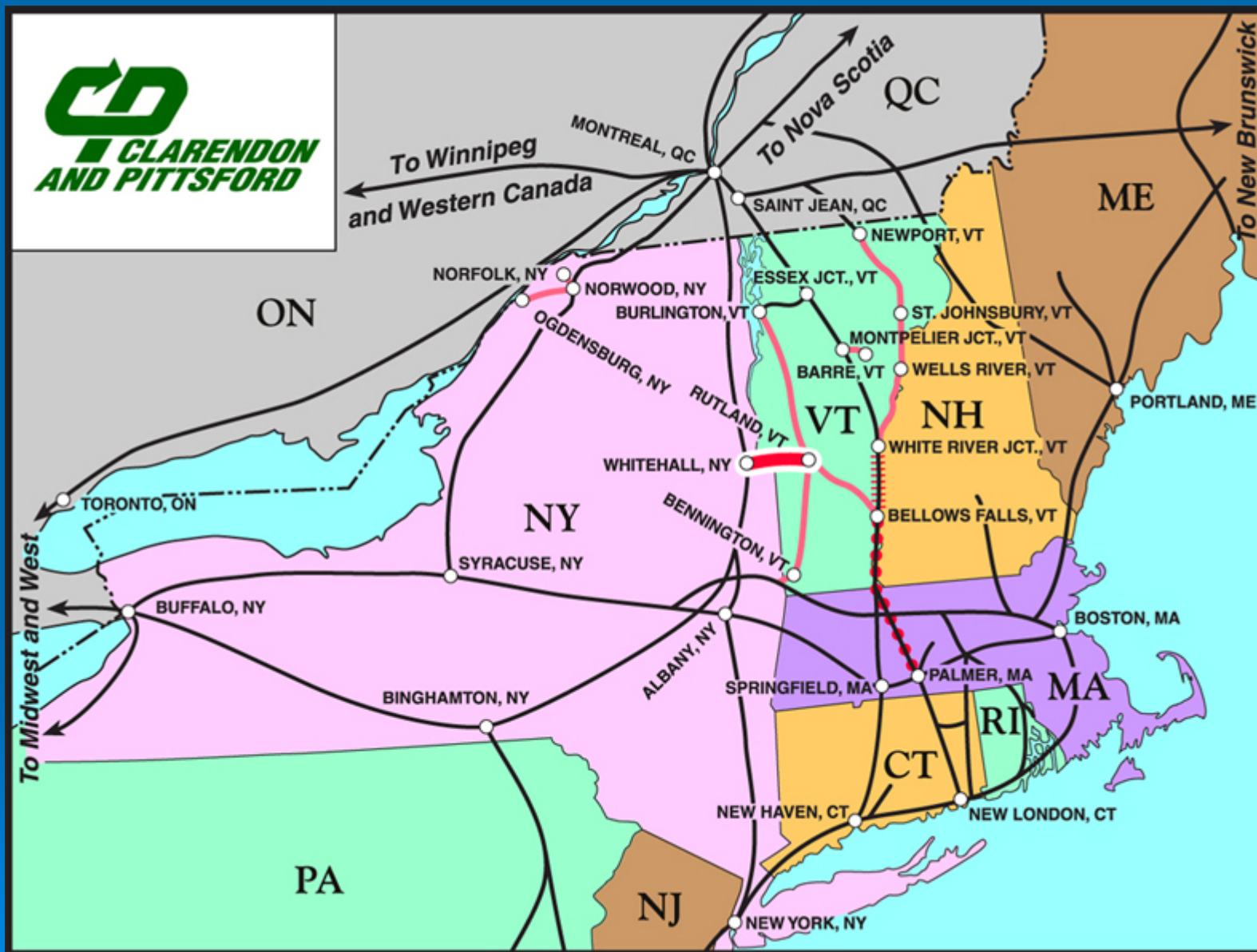


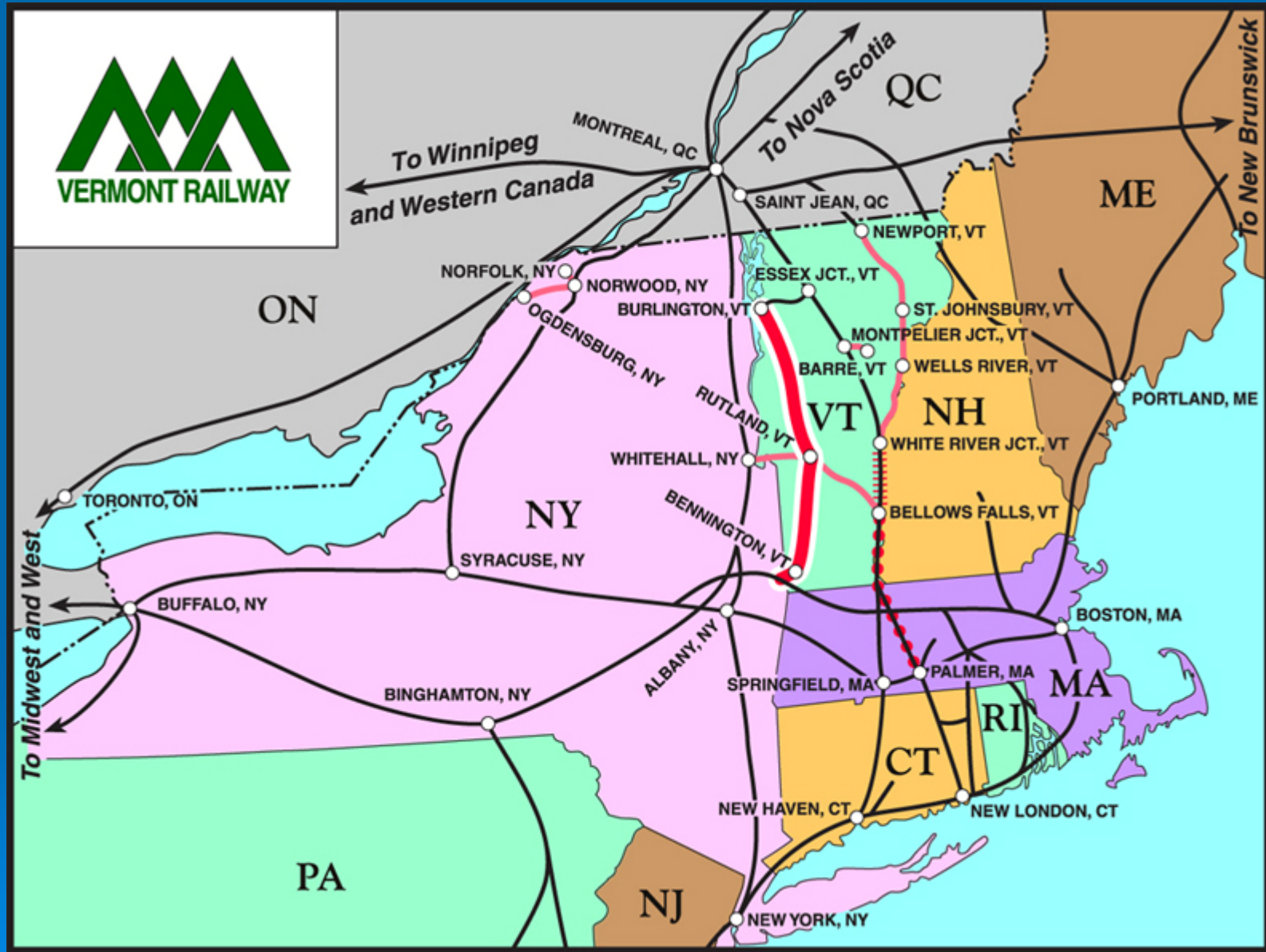
More than Road Damage - 700 Homes Destroyed

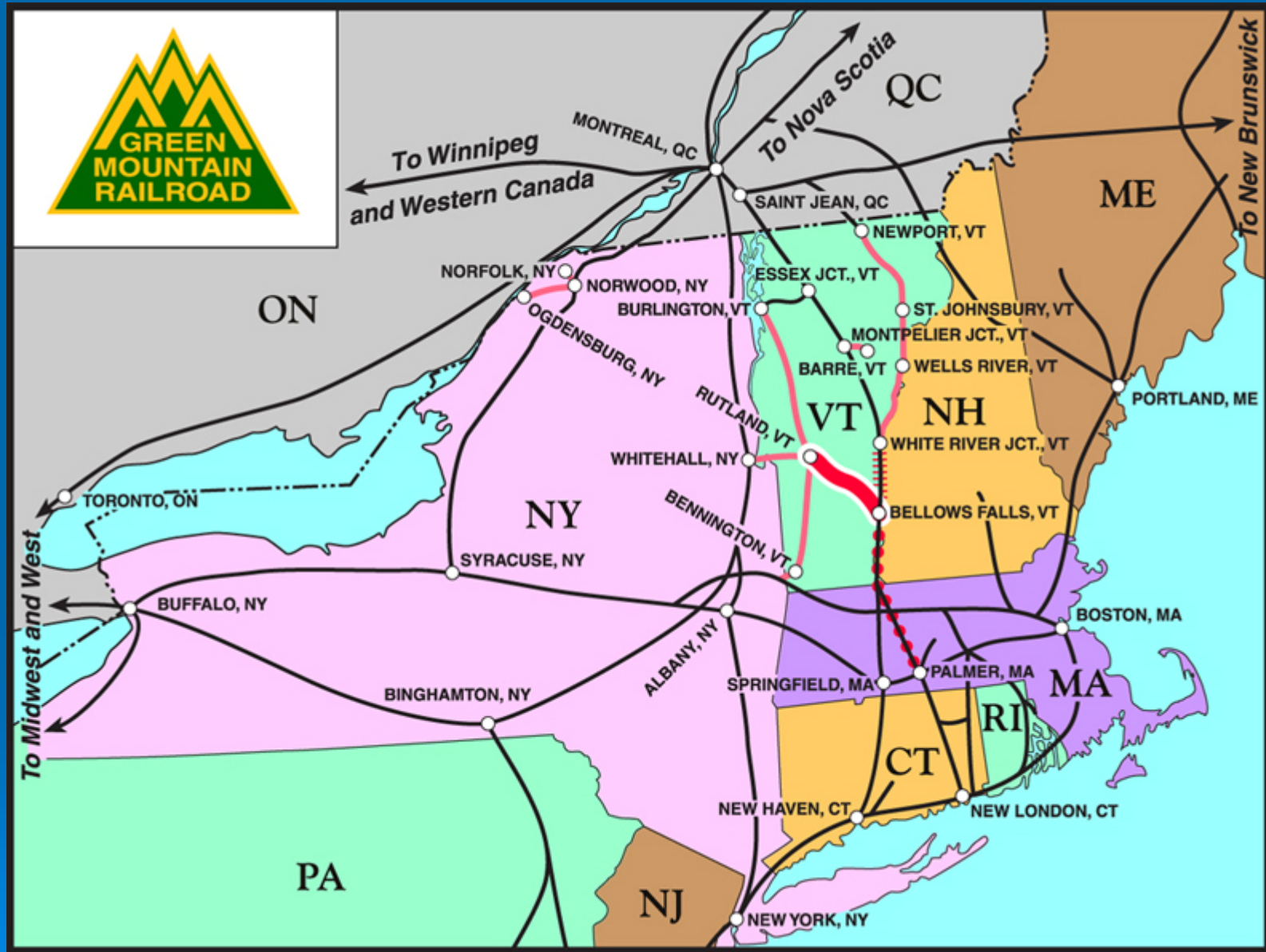
Impact on VRS

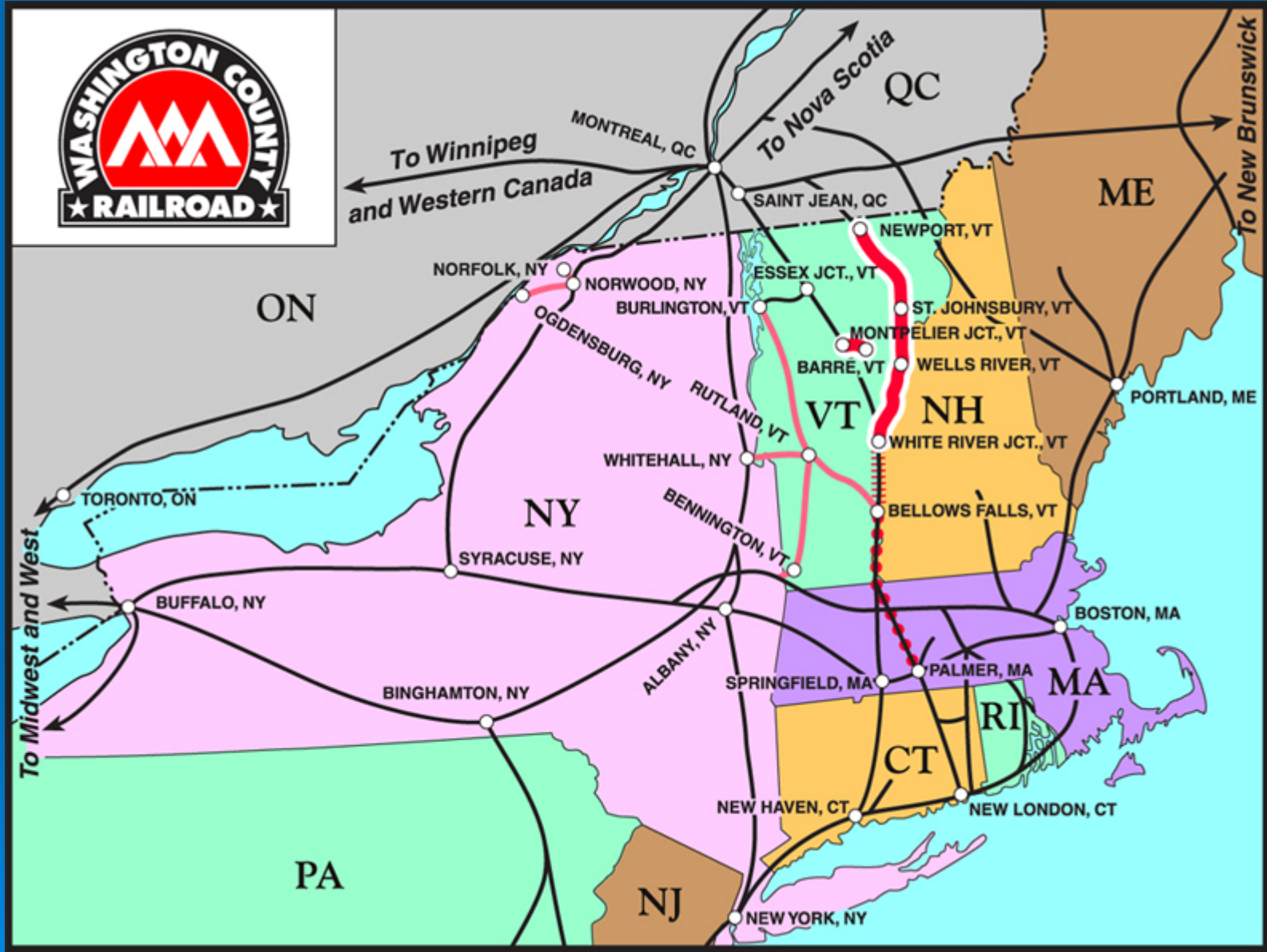
Over half of our system was shut down for three weeks











The Damage

- 107 Washouts – over 50 very large
 - 32 on GMRC
 - 47 on B&R
 - 4 on VTR Northern
 - 9 on CLP
 - 9 on WACR Conn River
 - 6 on WACR M&B
- 6 Bridges severely compromised
 - All suffered major structural damage



North of Rutland near Florence VT – MP 63 -VTR is in middle of picture:



Florence, VT – Omya in background top left



Aerial View of Bridge 114 Chester, VT



Bridge #114, Milepost 11 on the Green Mountain Subdivision



Bridge #114, Milepost 11 on the GMRC from the other side of the bridge



Bartonsville, VT – Green Mountain Railroad Before Repairs

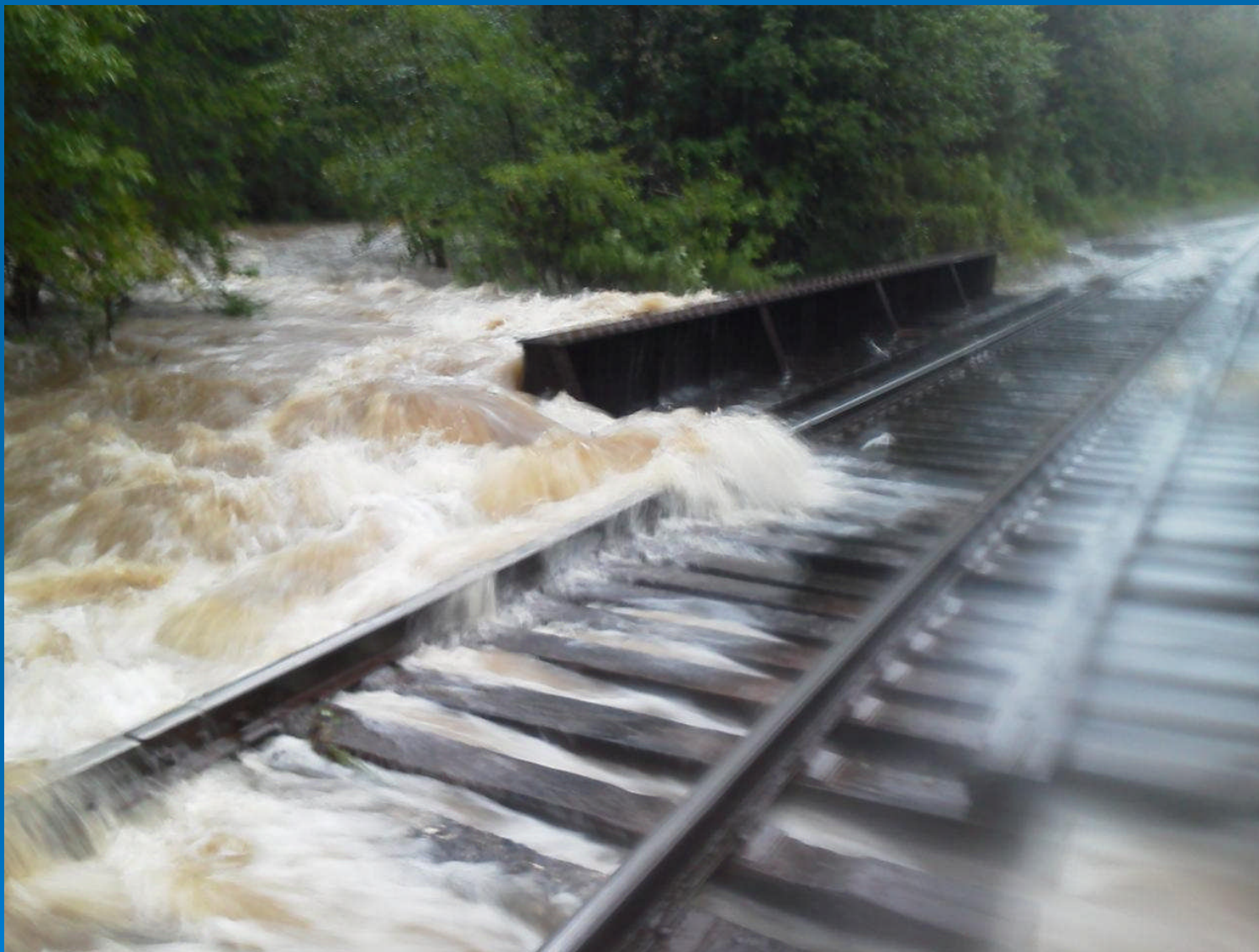


The Proctorsville, Vt., thru-truss bridge on the Green Mountain Railroad is compromised on both sides.

The railroad's chartered helicopter with officials aboard is surveying the Green Mountain Railroad Co.



Adjacent to the Route 103 grade crossing in Proctorsville, VT., the Black River overflowed its banks well over the height of the railroad bridge, washing away the approaches on both ends. More than 200 feet of rail is suspended in the air to the north end of the bridge.



GMRC North of Mt Holly, VT



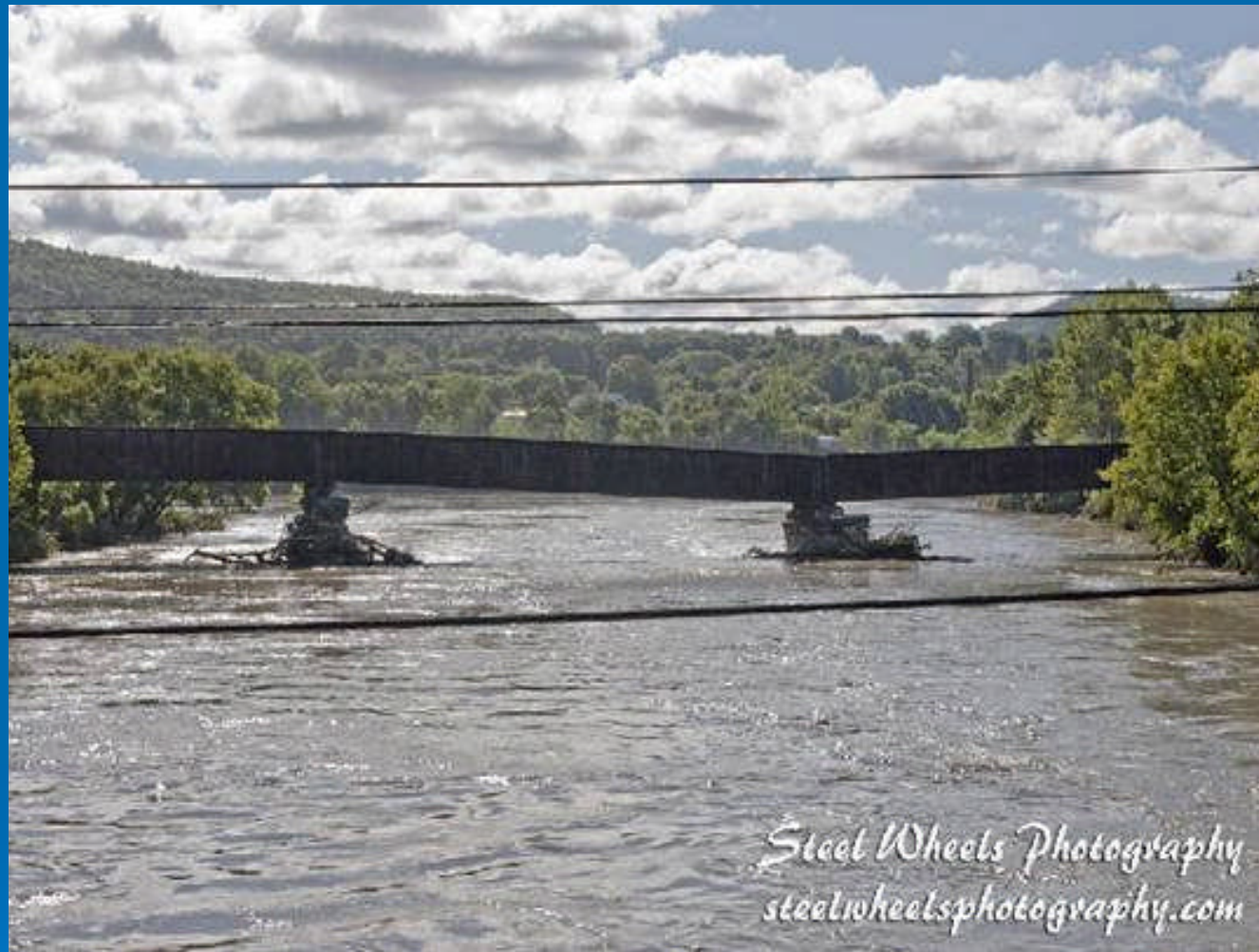
One of many washouts on B&R
Milepost 48, Wallingford, VT



Total of 11 Miles of Track Washed out



North of Alfreacha Crossing, Rutland on B&R



The Washington County Railroad bridge (formerly B&M bridge) has held up to the elements since its installation in 1936, but met its match with Irene. Seen off its pier and from the deck surface, this bridge has severed service to the VTR Conn River line.



The Washington County Railroad bridge (formerly B&M bridge) looking north from White River this bridge has severed service to the upper Connecticut River valley.

The Recovery Effort

MOW team started work the day after the storm

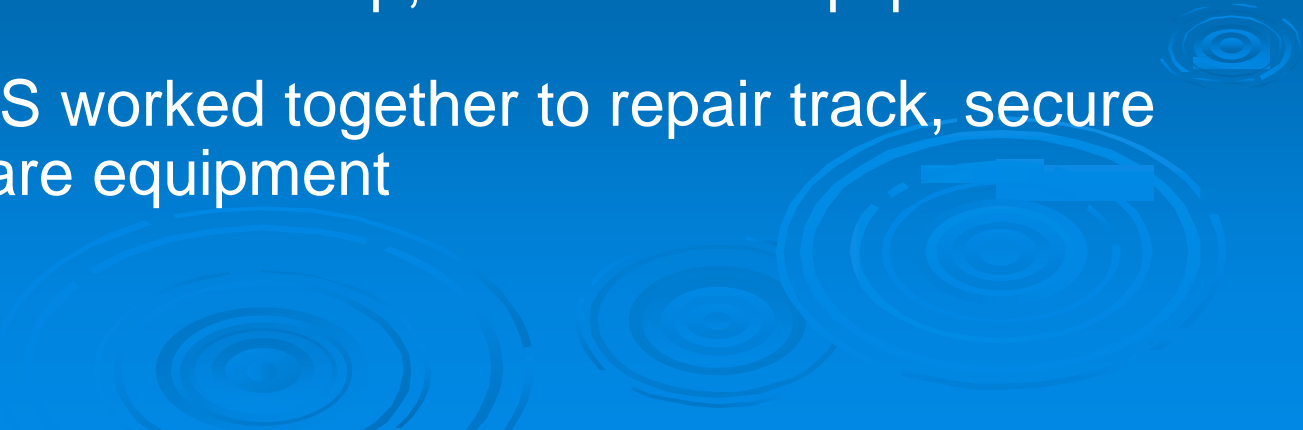


Repair work underway on bridge 114 near Chester, VT:

The Recovery Effort

- Mobilization of contractors, material, equipment, men
- 6 different contractors and engineering firms for the bridges
- Worked 24/7 for three weeks straight
- Several vendors supplied ballast, rip rap and other material. Also worked around the clock.
- Thanks to Vermont AOT, facilitated the recovery effort
- State of VT waived environmental regulations and weight restrictions temporarily

The Recovery Effort

- 3 Surfacing crews working simultaneously
 - 2 VRS, 1 RJ Corman
 - Over 250 men working on the recovery
 - Side dumps and ballast cars from CPRS, P&W, NECR, Amtrak others. MMA supplied engine for WACR
 - Thank you to ASLRRA (dragnet) and many of our short line friends who offered help, advice and equipment.
 - NECR and VRS worked together to repair track, secure ballast and share equipment
- 

Rip Rap, Ballast and Ties Replaced

- GMRC – 47,000 tons
- B&R -40,000 tons
- WACR – 2,000
- 50 dump trucks mobilized
- 1,000 ties replaced



Bridge 114 Under Repair



Building emergency temporary roads to reach remote locations:



Rotary dump truck delivering material to job site:

Bartonsville Under Repair



Bartonsville After - Repairs Completed







Bridge at White River Junction Under Repair

White River Junction Bridge Under Repair



Could not have done it without....



.....and many others.



ECI & VHB on Bridge 114



Before August 29

After September 18



White River Junction October 11, 2011



White River Junction October 11, 2011



Service Restoration

- Railroad shut down August 29
- Service restored on:
 - CLP Aug 31
 - VTR Northern Aug 31
 - WACR Conn River from north only Sept 9
 - GMRC Sept 16
 - VTR B&R Sept 18
 - **White River Junction Bridge Oct 11**
 - (NYOG & WACR M&B not closed)

Impact on Customers

- VRS did not issue any embargos
 - Arranged transloading and detours (CPR & PAS)
 - Did have delays but kept traffic flowing
- Accurate Customer Service Bulletins
 - Positive feedback
 - They like being kept informed
 - It helped ease pain of delays
 - Reduced/eliminated customer complaints
 - Willing to work with us

Impact On Customers

- Wheels Underwater –private cars
- Loss of fall foliage season for passenger excursions



Work on Bethel, VT 107 Bridge 115



Work on Bethel, VT 107 Bridge 115



Work on Bethel, VT 107 Bridge 115



PS: Send Side Dumps!!



Success!



Thank you! Questions?