

Transportation Resilience Planning Tool Pilot Project

The Vermont Agency of Transportation (VTrans) recently completed a pilot project called the [Transportation Resilience Planning Tool](#) (TRPT). The Vermont TRPC is a web-based application that identifies bridges, culverts, and road embankments that are vulnerable to damage from floods; estimates risk based on the vulnerability, and criticality of roadway segments; and identifies potential mitigation measures based on the factors driving the vulnerability. Last November, Joe Segale, VTrans Policy, Planning & Research Bureau Director, gave a presentation introducing the tool at our monthly Transportation Advisory Committee (TAC) meeting.

The TRPT combines river science, hydraulics and transportation planning methods and is applied at a watershed scale. The purpose is to identify vulnerabilities in a proactive manner to avoid or mitigate against the impacts of future damages in the most critical, highest risk locations. The tool was developed by VTrans with funding from the FEMA Hazard Mitigation Grant Program, federal transportation planning funds, and match from state transportation dollars. Three watersheds, located in southern Vermont, were completed as part of the pilot. Now VTrans and some Regional Planning Commissions are working together to expand the tool to more watersheds throughout the state. You can learn more about the purpose and development of [TRPT here](#).

CCRPC has identified three watersheds within the Winooski Basin to develop the TRPT – the Huntington, Snipe Island and Joiner Brook watersheds.

In order for this tool to be most useful, it is important to know about flood related damages to roads, bridges, and culverts within these watersheds. CCRPC has access to some historical damage data (TS Irene in particular) and will begin working with the data this month. We welcome any information you may have on any road/structure damage or stream bank erosion within these three watersheds.

Please contact Pam Brangan or Jason Charest if you have any questions or know of structures or roads damaged in weather events.

