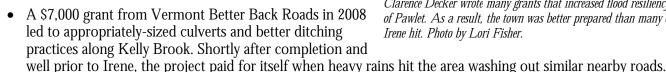
## Lesson #4

## Advance preparation pays off

awlet sits in the southeastern corner of Rutland County surrounded by the Taconic Mountains. The Mettowee River rolls through town as do many smaller feeder streams. Given the topography, the rivers and the six inches of rain Irene brought to the area, it is surprising how little damage the town suffered. Much of the credit for the town's resilience in the face of Irene belongs to Clarence Decker.

Decker, who died in 2016, was an officer in the town for over 35 years. He served as road commissioner and on the select board. Decker was also a prodigious grant writer. Over the years he had a hand in securing funding for at least half a dozen projects that increased the region's flood resilience. Here are a few examples:





Clarence Decker wrote many grants that increased flood resiliency in the Town of Pawlet. As a result, the town was better prepared than many others when Irene hit. Photo by Lori Fisher.

- In 2010 Pawlet got a Federal Emergency Management Agency (FEMA) grant to increase the size of a culvert on Route 153.
- Decker's work also helped nearby Castleton where he served as road commissioner. He got the town a FEMA Hazard Mitigation Grant for upgrades along Birdseye Road to divert runoff away from the road and reduce erosion. As a result, flooding in 2003 left the road unscathed, requiring only some ditch repair.

Grant writing is not easy. Decker estimated FEMA grants required 200 to 300 hours to prepare. He received assistance from the regional planning commission. He was known and trusted by local engineers who assisted with design, or signed off on design work he had done. He relied upon the fire and rescue squads to help him document risks associated with losing certain road crossings during emergencies. And he kept good records about culvert failings to build the case for their future replacement. "I just want to be able to say I bettered this town," he noted. He certainly did.

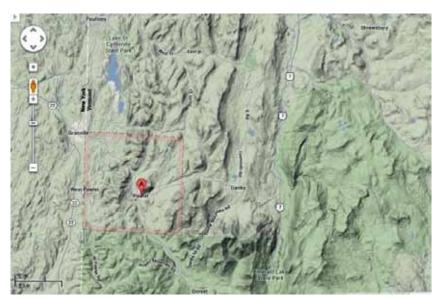
## **FEMA** money can help with planning

FEMA Hazard Mitigation Grant applications are actually made to the state which reviews proposals and passes the top ones on to FEMA. Federal funds can cover up to 75 percent of total project costs. Only communities that have FEMA-approved mitigation plans and that participate in the National Flood Insurance Program are eligible for Hazard Mitigation Grants.

While Decker's commitment may have been unique, money is available for those seeking to deal with repeat flooding problems. A successful application must show repetitive damage at a site to document a positive benefit to cost ratio. Repeat damage helps meet this need, as does the input of the fire and rescue squads.

## **Lessons from the Floods**

The Town of Warren also took steps prior to Irene to mitigate future floods. Warren was devastated by flooding in 1998 when heavy rains fell on already saturated soils in late June, swelling the Mad River. Following the flooding the town, with FEMA assistance, purchased three homes along the Mad River. Two of them later became the town-owned Riverside Park. Over the years gifts and additional purchases have helped the park expand. A 2008 plan for the park identified a primary goal of allowing the river channel to return to a balanced state. Over time, the river would top its banks and erode and deposit sediments along its channel and the park, which it did in 2011. According to Caitrin Maloney, formerly of Friends of the Mad River. Riverside Park area offers one of the



Despite two rivers and lots of mountains, Pawlet was well-prepared for Irene's wrath.

first opportunities downstream from Warren Village, for "the river to blow off some steam" during high flow.

Advanced preparation can help individuals as well as towns. Along North Road in Middletown Springs the Irene-swollen North Brook wiped out multiple stream crossings. Of the four stream crossings along the road, only one bridge survived; the one where homeowners sought input from a river scientist prior to construction. Heeding their input assured the bridge would be wide enough to outlast high water events. Stream crossings that failed were substantially smaller.

Road project designers would be well served to follow the examples of Clarence Decker, the town of Warren and the homeowners along North Road and consider future flooding during the planning stage. Many communities are already doing so. As one example, Bristol plans to replace two small undersized bridges on the New Haven River with a single 360-foot structure that will span the full flood-prone area. The new bridge will increase the capacity of the river to pass water and lessen the likelihood of future flood-related damage both to the bridge itself and downstream. Climatologists predict more intense storms and more flooding for our region. Adjusting our infrastructure to face this new reality will require foresight and preparation, but it is imperative that we do so.



Of four stream crossings along North Road in Middletown Springs, this is the only one to have survived Irene.

It was the only crossing built in consultation with a river scientist. Photo by Lori Fisher.