

# BLACK RIVER FLOOD RESILIENCE PLAN: PROGRESS UPDATE



**DID WE  
HEAR  
YOU  
RIGHT?**

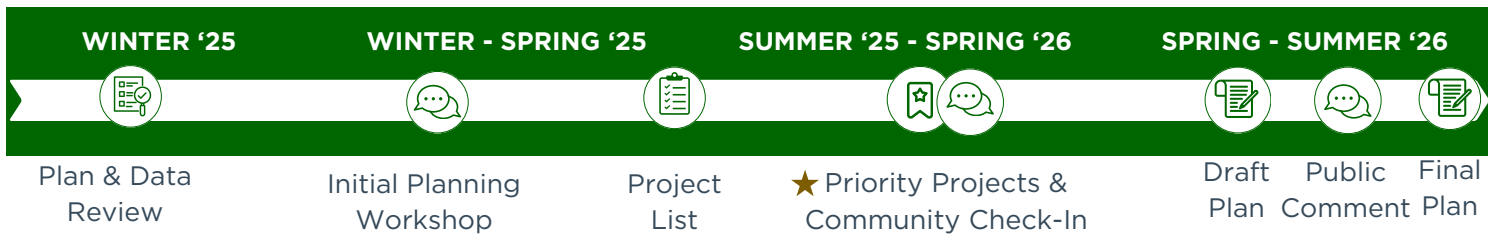


The towns of **Plymouth, Ludlow, and Cavendish** are developing a flood resilience plan for the Black River corridor. The plan will serve as a roadmap for identifying and implementing projects that reduce flood impacts and support long-term community resilience.

Scan the QR code to share your thoughts or access the survey here: <https://arcg.is/H1ubHO>. Please note, this survey is intended to identify concerns or gaps—not to vote on projects.

## PLAN DEVELOPMENT PROCESS & TIMELINE

PHASE 1: DATA/PLAN REVIEW	PHASE 2: PROJECT ID	PHASE 3: PRIORITIZATION	PHASE 4: PLAN DEV. & DESIGN
Review existing data plans.	Analysis of potential project concepts.	Projects selected for conceptual (10%) design.	Roadmap for community projects.



We are here. ★

### What we've done so far:

Using community input gathered at a public open house along with site visits, documentation of past efforts, flood damage data, and coordination with town leadership, the project team has identified a list of potential flood resilience projects across the three towns.

### What's happening now:

The project team used a set of prioritization criteria - defined on the next page - to evaluate and score all identified projects. For each criteria, a score of 0-2 was given for each project. While all projects will be included in the Flood Resilience Plan with details on scoring, only a small number will advance to conceptual design.

### This update and survey are a check-in:

We are sharing the project list and prioritization approach to confirm we're on the right track and to identify any major concerns or missing considerations before moving forward.

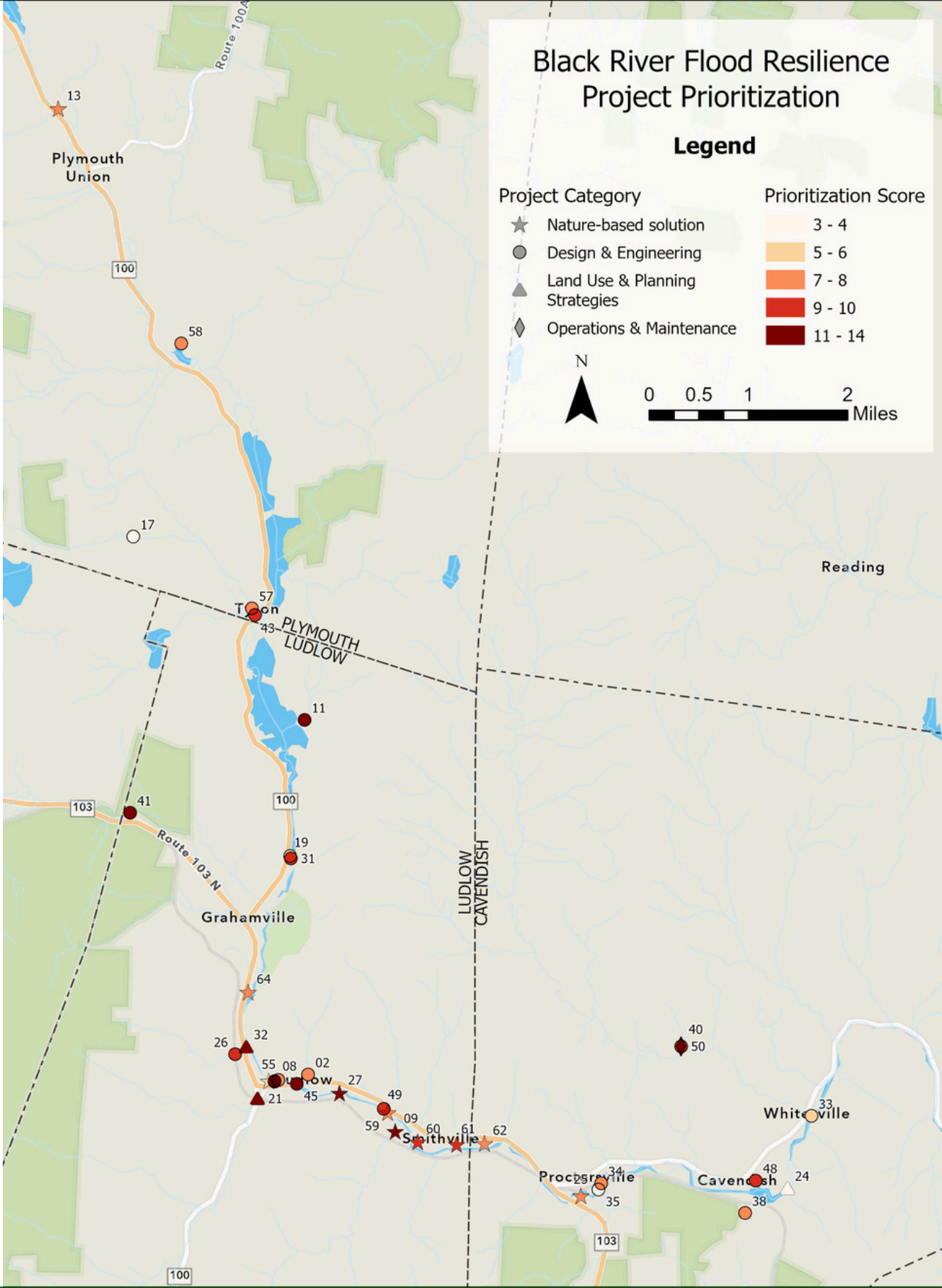
# PRIORITIZATION CRITERIA & PROJECT CATEGORIES

## Identified Prioritization Criteria:

- **Flood Hazard Mitigation Benefit:** Ability to reduce flood impacts to private residences, businesses, and community assets at the local and watershed scale in a long-term and sustainable manner.
- **Cost:** Combined cost of analysis, design, implementation, and ongoing operations and maintenance.
- **Feasibility:** Anticipated ease of project implementation based on current site conditions, including permit needs, site constraints, ownership, and project complexity.
- **Co-Benefits:** Potential secondary outcomes including economic development, housing stock improvements, natural resource benefits, water quality improvements, improved aquatic organism passage, and historic and community layout preservation.
- **Community Alignment:** Reduces flood impacts to important community assets, aligns with feedback from public and town representatives and existing town plans.
- **Funding Eligibility:** Alignment with existing state or federal funding sources or existence of potential local funding opportunities.
- **Vulnerability Considerations:** Potential to reduce community vulnerability and increase resilience and social equity.

## Project Categories:

- **Nature-Based Solutions:** Projects that protect or restore ecosystem services and natural processes to address vulnerability and enhance resilience. These projects often offer co-benefits such as water quality and wildlife habitat improvements. Examples include floodplain reconnection, wetland restoration, enhanced riparian buffers, and bioengineering.
- **Design & Engineering:** Solutions for the built environment that emphasize redesigning or protecting infrastructure to increase resilience. Examples include road relocation, elevation, or stabilization, bridge or culvert upsizing, structural elevation or floodproofing, and stormwater management.
- **Land Use & Planning:** Projects leveraging planning and preparedness techniques to avoid or minimize the risks of flooding. Examples include property acquisition or relocation, managed retreat, zoning updates, and development of long-term flood resilience strategies.
- **Operations & Management:** Short-term actions that enhance public safety before, during, and after flood events. Examples include warning and communication systems, road repairs and debris removal, and proactive maintenance of dams.



Note: Project locations shown represent general areas where work could occur. Flood mitigation benefits may extend beyond these locations and may occur upstream, downstream, or overtime.

# PROJECT LIST

All projects were scored using the prioritization criteria described above. The map presents project locations with darker colors indicating higher prioritization scores. While these scores provide a useful comparison, additional input from the project team is informing which projects to advance to conceptual design.

Project ID	Project Name	Project Category	Town	Prioritization Score
36	Emergency Shelter Access Evaluation	Land Use & Planning Strategies	Corridor-Wide	14
9	Soapstone Brook Berm Removal	Nature-Based Solution	Ludlow	12
21	Jewell Brook H&H Study / LOMR	Land Use & Planning Strategies	Ludlow	12
39	2D Hydraulic Modeling of Proctorsville	Land Use & Planning Strategies	Cavendish	12
40	Davis Road - Flood Warning Signage	Operations & Maintenance	Cavendish	12
41	Buttermilk Falls Road - Partial Closure	Design & Engineering	Ludlow	12
65	Green Mountain Railroad Coordination & Crossing Assessments	Land Use & Planning Strategies	Corridor-Wide	11
11	Ellison Lake Road Drainage Improvements	Design & Engineering	Ludlow	11
37	Floodproofing of Public Facilities in Tyson	Design & Engineering	Plymouth	11
42	Floodable Greenspace & Recreation Corridor	Land Use & Planning Strategies	Corridor-Wide	11
27	Pleasant St. Floodplain Reconnection at Private Properties	Nature-Based Solution	Ludlow	11
32	Relocate Ludlow Fire Department	Land Use & Planning Strategies	Ludlow	11
44	Install Roadway Flood Warning Signage	Land Use & Planning Strategies	Corridor-Wide	11
45	Main Street Bridge Upsizing/Improvements	Design & Engineering	Ludlow	11
47	Post-event Damage Inventory System	Land Use & Planning Strategies	Corridor-Wide	11
63	Depot Street Bridge Decommissioning	Design & Engineering	Road Relocation	11
26	Improvements to Railroad Crossing over Okemo Brook	Design & Engineering	Ludlow	10

# PROJECT LIST (CONT.)

Project ID	Project Name	Project Category	Town	Prioritization Score
43	Library Road Pedestrian Bridge Removal	Design & Engineering	Plymouth	10
31	East Lake Road Drainage Improvements	Design & Engineering	Ludlow	10
60	Route 103 South, Okemo Field Flood Storage	Nature-Based Solution	Ludlow	10
46	Depot Street Bridge Upsizing/Improvements	Design & Engineering	Ludlow	10
48	Cavendish Canyon - Levee Enhancements	Design & Engineering	Cavendish	10
52	Property Acquisition between Depot Street and Railroad	Land Use & Planning Strategies	Cavendish	10
61	Route 103 South - Floodplain Restoration and Floodwater Storage	Nature-Based Solution	Ludlow	10
49	Pleasant Street Bridge Upsizing	Design & Engineering	Ludlow	9
50	Davis Road - Permanent closure of vulnerable section	Design & Engineering	Cavendish	9
51	Twenty Mile Stream Road Drainage Improvements	Design & Engineering	Cavendish	9
53	Depot St Properties - Long-Term Managed Relocation	Land Use & Planning Strategies	Cavendish	9
54	Depot Street Structure Elevations	Design & Engineering	Cavendish	9
59	Wastewater Treatment Facility - Full Floodplain & River Restoration	Nature-Based Solution	Ludlow	8
8	Smith Street Floodplain Bench and Retaining Wall	Design & Engineering	Ludlow	8
13	Ricks-McDonald Roads Access Alternatives	Nature-Based Solution	Plymouth	8
38	Whites Hill Road Erosion Mitigation	Design & Engineering	Cavendish	8
56	18 Mill Street to Little League Field Floodplain Benching	Nature-Based Solution	Ludlow	8

# PROJECT LIST (CONT.)

Project ID	Project Name	Project Category	Town	Prioritization Score
57	Dublin Road Culvert Replacement	Design & Engineering	Plymouth	8
58	Billings Road Partial Relocation	Design & Engineering	Plymouth	8
62	Floodplain Restoration and floodwater Storage at Rugby Pitch	Nature-Based Solution	Cavendish	8
2	Commonwealth Ave Culvert Replacement and Daylighting	Design & Engineering	Ludlow	7
25	Greven Field Floodplain Reconnection	Nature-Based Solution	Cavendish	7
34	Railroad Bridge Crossing Improvements	Design & Engineering	Cavendish	7
64	Floodplain Restoration and Floodwater Storage between Fox Land and Dug Road	Nature-Based Solution	Ludlow	7
19	Reservoir Pond Dam Spillway Retrofit	Design & Engineering	Ludlow	6
55	Jewell Brook Confluence Restoration	Nature-Based Solution	Ludlow	6
33	Carleton Road Bridge Replacement	Design & Engineering	Cavendish	5
22	Singleton's Culvert	Design & Engineering	Cavendish	5
17	Patch Brook Road Improvements	Design & Engineering	Plymouth	4
35	Depot Street Bridge Replacement	Design & Engineering	Cavendish	4
24	Cavendish Dam Operations & Maintenance Plan Review	Land Use & Planning Strategies	Cavendish	3