

LAKE CHAMPLAIN WATERSHED WATER QUALITY MANAGEMENT PLANNING

ROADSIDE EROSION ASSESSMENT AND INVENTORY

LAKE CHAMPLAIN LAKE GEORGE REGIONAL PLANNING BOARD

AMERICAN RECOVERY AND REINVESTMENT CLEAN WATER ACT, SECTION 604 (b) GRANT



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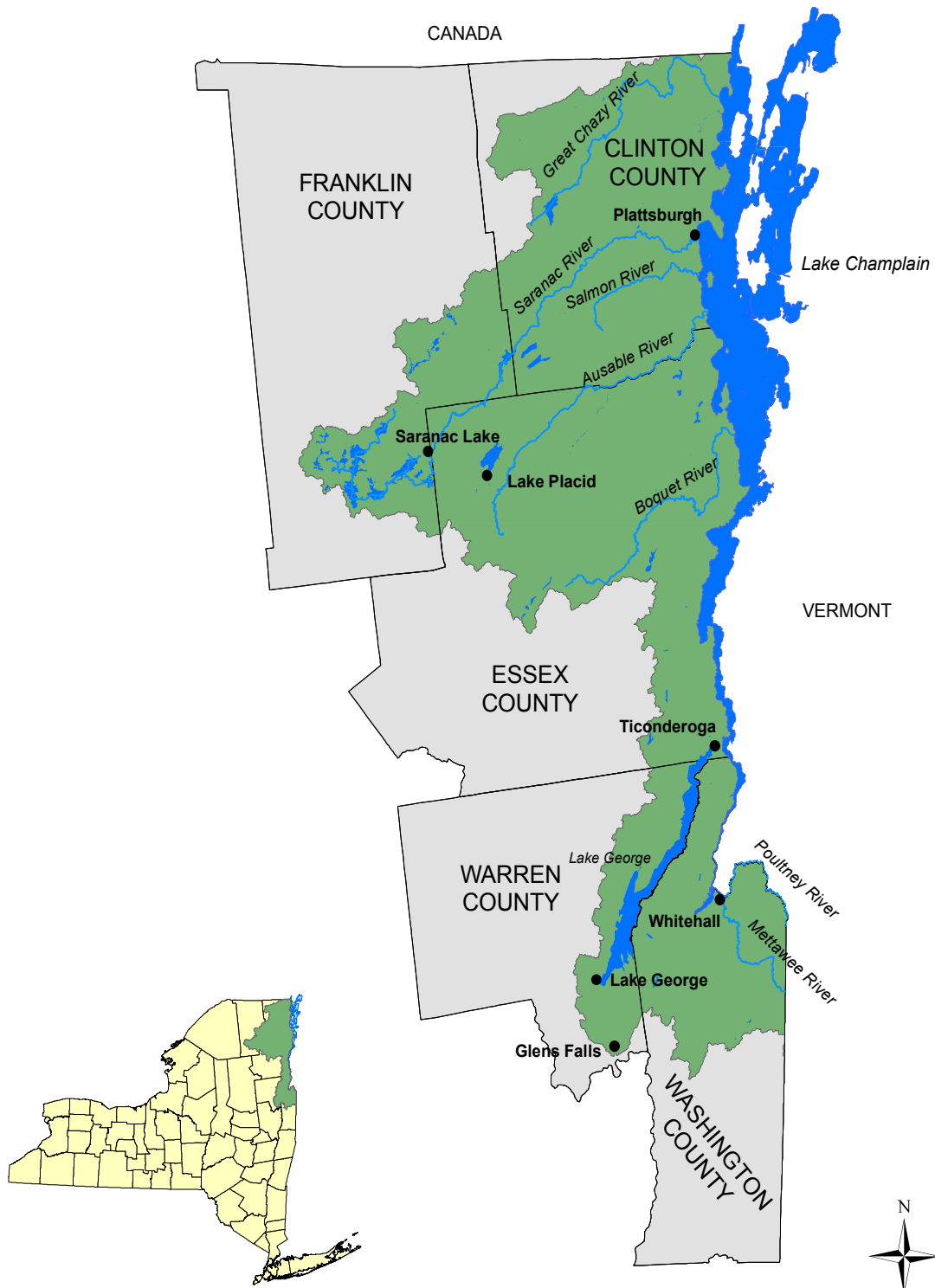
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LAKE CHAMPLAIN WATERSHED

STATE AND COUNTY MAPS

New York State Lake Champlain Basin Watershed Map



EXECUTIVE SUMMARY

ROADSIDE EROSION ASSESSMENT AND INVENTORY

The Lake Champlain Watershed Water Quality Management Planning project was one of eleven projects in New York State that was funded through the Federal Government's American Recovery and Reinvestment Act initiative. Awarded to the Lake Champlain - Lake George Regional Planning Board (LCLGRP), this \$130,625 grant contributed to 15 jobs throughout the five counties of the Champlain Basin; Clinton, Essex, Franklin, Warren and Washington; and created five additional summer intern positions at the county Soil and Water Conservation District (SWCD) offices. Overall, over 3000 hours were spent on this project through a strong partnership between the LCLGRP, the Champlain Watershed Improvement Coalition of New York (CWICNY), and the five County SWCD's. Most importantly, critical planning for the future was completed.

The goal of this project was to identify critically eroding roadside banks that contribute significant sediment loads to the high quality streams throughout the Champlain Watershed. Project oversight and fiscal management was performed by staff at the LCLGRP, while Project Management was performed by the CWICNY Coordinator. Data reconnaissance and field work was completed by the five county SWCD's using newly purchased Trimble Juno SB GPS units with a comprehensive erosion site data dictionary produced by the partnering agencies. Data points, coordinating metadata and photos were post-processed using TerraSync and ARC GIS software, and maps identifying erosion sites were produced for each county and township. For each specific site, a prioritization ranking matrix was used to determine the criticalness of erosion; High, Moderate or Low. Areas with critical erosion are delineated on the maps with red dots, yellow is moderate and green is low. Also determined at the site visits and in post-processing were methods for remediation of the sites and the associated cost estimates. Overall, 319 roadside erosion sites; 117 high priority, 77 moderate priority & 125 low priority; were identified throughout the watershed on state, county and town roads with a total remediation cost of \$1.7 million. Methods for remediation are vast, and include

hydroseeding with tackifier and bonded fiber matrixes; stabilizing ditches with rock and gravel; installing erosion control blankets; constructing check dams and sediment traps; stabilizing bank toes and re-grading slopes and roads.

Another part of this initiative was the planning and executing of several educational trainings, including CWICNY's annual North Country Stormwater Tradeshow and Conference. From 2009 to 2011, over 300 local engineers and municipal staff were educated on topics such as flood plain management, cold climate best management practices and performance, low impact development, advanced mechanisms and designs for phosphorus treatment, green roofs and pervious asphalt. Also throughout this project, individual County SWCD's performed Erosion and Sediment Control trainings for local contractors. In all, over 1000 local code enforcement officers, contractors, and professionals have been educated on important water quality issues that the Champlain region has been facing.

The successful future of Lake Champlain's water quality is dependant on several factors, including the proper maintenance and control of the highly erodible soils that make up so much of the watershed. This planning initiative has identified several areas that are in dire need of erosion and sediment control maintenance by the state, county and local governments. It is imperative for the health and wellbeing of our natural resources that they are addressed in the future through the same strong partnerships formed to produce this plan.

Photograph: Point AuRoche, Clinton County.
Photograph courtesy of Carl Heilman II.

PROJECT INTRODUCTION

ROADSIDE EROSION ASSESSMENT AND INVENTORY

Lake Champlain is a 120 mile long lake that flows north from Whitehall, NY and outlets in the Richelieu River in Canada. Its watershed is 8,234 square miles and encompasses land in two states, New York and Vermont, as well as land in the Canadian Province of Quebec. In New York State, the watershed spans just over 3,000 square miles from the high peaks of the Adirondack Mountains to the lowlands on the western shores of Lake Champlain. The basin includes the majority of Clinton and Essex Counties and portions of Franklin, Warren and Washington Counties. There are a variety of land uses throughout the New York side of the watershed, the most abundant being agricultural, but the majority of the land is mixed forest owned by the State of New York and designated Forever Wild. There are only two major population centers; the City of Plattsburgh in Clinton County at the lakes northern end and the City of Glens Falls and Town of Queensbury in Warren County, at the watershed's southern end. However, there are a number of smaller communities and hamlets located throughout the watershed. The main economy is tourism, most

notably aquatic recreation and angling. More than one third of the residents in the Lake Champlain Basin are employed in service occupations accommodating tourists generating nearly \$4 billion annually. To remain attractive to tourists, the water quality of this region, including aquatic habitats, must be maintained and preserved.

Because the Champlain Region has a sparse population spread over a vast amount of land, an active network of state, county, and local roads has been established throughout the watershed to connect the small hamlets, residents, and tourists to the many natural resources this area has to offer. Along with these road networks span thousands of miles of roadside ditches, which are an important part of road networks as they safely convey water off of road surfaces, in turn keeping them safe for public travel. To keep the ditches functioning properly, road crews must maintain them by regularly cleaning out the built up sediment and vegetation. However, the act of removing the sediment and debris also removes the vegetative mats that stabilize the remaining soil. The exposed, bare soil then becomes highly prone to erosion. The less than ideal growing conditions in the Adirondacks, coupled with fragile soils and steep angular land features, have caused a substantial amount of erosion and sediment deposition from these ditches into local streams, rivers and lakes, as well as directly into Lake Champlain. In recent years, increasing rainfall rates combined with human-induced land disturbances have exacerbated the erosion and sedimentation process throughout the watershed. Noted researcher Dr. Rebecca Schneider of Cornell University has determined that roadside ditching activities are a huge component in the transport of sediment into New York State's waterbodies. Her research has indicated that significant quantities of sand and silt are transported via scraped and

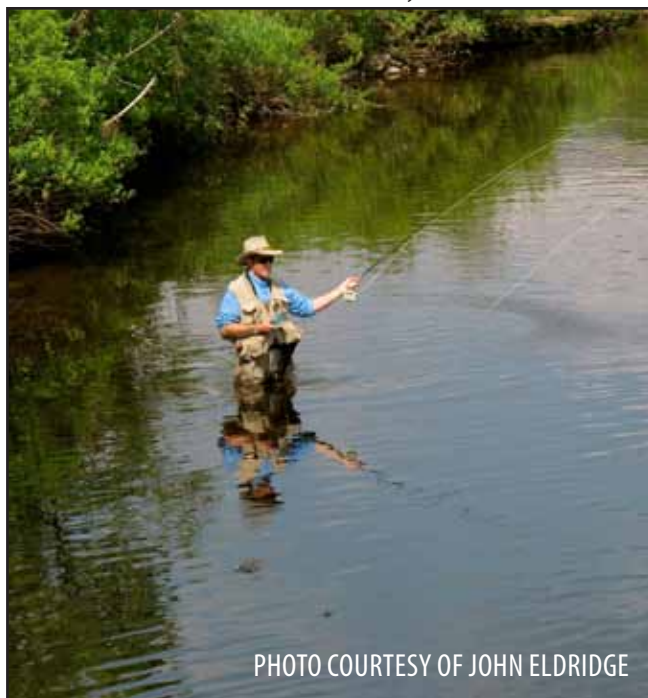


PHOTO COURTESY OF JOHN ELDRIDGE

exposed ditches, which is the reason that proper vegetative and structural sediment and erosion control techniques are necessary for these areas.

Sedimentation refers to the deposition of sand and silt into a receiving waterbody. Excess sediment can have an array of effects on aquatic ecosystems and can negatively impact water quality and clarity. The NYS Department of Environmental Conservation (DEC) has found that in the Lake Champlain Watershed sedimentation has affected local lakes and rivers by limiting macroinvertebrate production (food sources for fish species); filling in gravel spawning beds, which limits trout reproduction; and restricting fish migration, which decreases spawning success. The DEC also notes that excess sedimentation in Lake George has caused deltas to form at the mouths of several tributaries which have impeded recreation, boat navigation and produced suitable habitat for invasive species establishment. Sediment also acts as a vehicle for phosphorus transport into Lake Champlain. High velocity water coming off of the steep Adirondack slopes erodes the bare sediment and attached phosphorus particles, and

deposits them into the receiving waterbodies. This is a huge problem in Lake Champlain, as elevated phosphorus concentrations have increased algal growth, including the toxic blue-green algae, and has impeded recreation and aesthetics.

It is because of these factors that the Lake Champlain – Lake George Regional Planning Board partnered with the Champlain Watershed Improvement Coalition of New York (CWICNY) and the Soil and Water Conservation Districts (SWCDs) from Clinton, Essex, Franklin, Warren and Washington Counties to assess roadside erosion throughout the Champlain Watershed and to recommend means to address each identified erosion site. Over 3000 hours were spent on this planning initiative by 15 county and non-profit employees and 5 summer interns. This document outlines the erosion sites identified, the means to address them, and the estimated costs associated with the remediation techniques. The contents of this plan are intended to provide state, county and local highway supervisors and road crews with the knowledge to remediate these sites, while also providing a vehicle to leverage future funding for implementation.



AUSABLE RIVER
PHOTO COURTESY OF JOHN ELDRIDGE

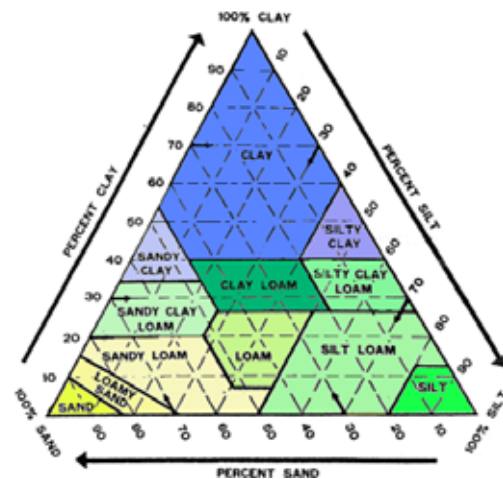
DATA COLLECTION

ROADSIDE EROSION ASSESSMENT AND INVENTORY

The procedures for this project consisted of data collection, mapping and assessments. For the data reconnaissance and collection, CWICNY members established a uniform protocol and data set that was translated into a GPS data dictionary (Table 1). Parameters were chosen based on their correlation to erosive processes. Soil types were determined using the accepted Soil Texture Triangle.

Once the parameters were determined a data dictionary was created with individual drop-down menus to decrease the subjectivity between multiple data collectors. The data dictionary was downloaded onto four new Trimble Juno SB GPS units equipped with built in digital cameras that linked pictures with the geographic coordinates of each site. Data was collected at each site over two field seasons, 2010 and again in 2011 after further damage was caused by tropical storms Irene, Lee and several severe storms. The data was also analyzed for potential remediation recommendations and resolvability. An array of remediation recommendations were used, including; hydroseeding, plantings for deeper root depth, rock stabilization, erosion blankets and toe stabilization. Each management recommendation

Soil Texture Triangle



Reference: University of Minnesota Extension.

was then given a remediation cost estimates, which ranged between \$100 and \$500,000 each.

Once field work was completed, the data were downloaded using the TerraSync GPS Program and differentially corrected. The files were projected to NAD 1983, State Plane coordinate system and exported into shapefiles to be used in the Geographic Information Systems (GIS) ArcMap program. After creating map overlays of these points, the attribute tables were exported into a Microsoft Excel spreadsheet to be distributed and analyzed side by side with the photographs. Areas were prioritized in a matrix with soil types, recommendations, and best management practice solutions, as well as associated costs for stabilization.



Seasonal interns collecting roadside erosion data.

Table 1. Data dictionary parameters used to identify roadside erosion sites.

| PARAMETER | MENU SELECTIONS |
|-------------------------|---|
| Road Type | Divided Highway; Multi-lane Highway; Two-lane Paved; Other Paved; Gravel; Trail; Railroad |
| Road Slope | Steep Grade; Flat; Moderate Grade |
| Jurisdiction of Road | State - DOT; State - DEC; County - Warren; County - Washington; County - Essex; County - Clinton; County - Franklin; Town; Village; Private |
| Man Made Structure | Bridge; Culvert |
| Structure Condition | Good - only minor; Fair - deteriorating; Poor - failing |
| Outlet of Structure | Into River; Into Ditch; Into a Wetland; Into a Lake; N/A |
| Structure Undermind | No; Yes - Headwall; Yes - Culvert; Yes - Pier; Yes - Corrosion |
| Vegetation Present | Grasses; Invasive Plants; Woody Shrubs; Mature Trees; None; Other |
| Percent of Vegetation | 0 - 100% |
| Site Eroding | Ditch, Road Bank; Stream Bank; Hillside; Culvert Outlet |
| Jurisdiction of Erosion | Private; State Right of Way; County; Town; Unknown |
| Erosion Evident | Past Erosion; Continuous Erosion |
| Cause of Erosion | Excess Velocity; Channelization; Natural Causes; Surface Runoff; Other |
| Erosion Active | Yes; No |
| Stability of Area | Extremely Unstable; Needs Future Assistance; Stabilizing Naturally |
| Size of Area | 0.1 - 0.25 acres; 0.25 - 0.50 acres; 0.5 - 0.75 acres; 0.75 - 1.0 acres; 1.0 acres+ |
| Soil Type | Use soil texture triangle |
| Soil Test Done | Yes; No |
| Management Required | Hydroseeding; Rock Armour; Soil Remediation; Bio-Engineering; None; Other |
| Resolvability | Simple; Moderate; Difficult |

Other data entry text files include watershed, name of waterbody, date, time, town, USGS Quad, field crew, closest intersection, road name and distance to waterbody, measured in feet.

Criteria for slope and level of erodibility were recorded in the field according to the following criteria:

| | | |
|----------------------|-----------------|---|
| Slope | Steep | >2:1 or undercut |
| | Moderate | 2:1 |
| | Low | 3:1 |
| Level of Erodibility | High | Bare loose soil / actively slumping / steep or undercut |
| | Moderate | Semi-vegetated / some slumping evident / moderate slope |
| | Low | High percentage of vegetation / soil is not actively slumping / low slope |

SITE PRIORITIZATION

ROADSIDE EROSION ASSESSMENT AND INVENTORY

A scored ranking system was created in order to analyze the data collected and place proper emphasis on the critical areas. This system ranks the order of the sites from high (critical) to low (non-critical) based on a numerical score calculated from selected criteria in Table 1. To keep the matrix usable, five parameters were chosen based on the direct connection to erosive processes;

1. **Direct Connection or Proximity to Stream** - This criteria was chosen for the direct loading of sediment into a waterbody.
2. **Percent Vegetation** - The fewer plant roots holding soil in place the more erosion occurs.
3. **Level of Erodibility** - Indicative of whether slumping is actively occurring at the site.
4. **Bank Slope** - Slope steepness increases the amount of soil lost during erosion.
5. **Width x Length** - The more surface area exposed the more soil is lost.

The rankings of High, Moderate and Low were given a scoring range based on the Total Score calculated in Table 2, which has a maximum of 60 points. Each individual site was then ranked.

| Ranking | Score |
|----------|---------|
| High | 40 - 60 |
| Moderate | 31 - 39 |
| Low | 0 - 30 |

A general description of each ranking was then produced based on the attributes calculated in Table 2.

| | |
|----------|---|
| High | bare soil, steep bank, highly erodible material, possibly a direct connection to water body, large square footage; needs immediate maintenance either vegetative or structural. |
| Moderate | semi-vegetated bank, moderate slope, moderately erodible, no direct connection to water body, medium square footage; site can likely be remediated with vegetation. |
| Low | mostly vegetated, low slope, not highly erodible, small amount of square footage; may recover without maintenance, vegetation would help recovery. |

| CRITERIA | POINTS |
|--|--------|
| Direct Connection or Proximity to Stream | 10 |
| Percent Vegetation | |
| 0 - 25% | 15 |
| 26 - 50% | 10 |
| 51 - 75% | 5 |
| 76 - 100% | 1 |
| Level of Erodibility | |
| High | 10 |
| Moderate | 5 |
| Low | 1 |
| Bank Slope | |
| Steep | 10 |
| Moderate | 5 |
| Gradual | 1 |
| Width x Length | |
| > 2000 | 15 |
| 1501 - 1999 | 10 |
| <1500 | 5 |
| Total Score | |
| Ranking | 0 - 60 |

REMEDIATION PRACTICES

RESTORATION COSTS

Several remediation practices can be used to help reduce or stop erosion from roadside banks. These practices are broken into two main categories, vegetative and structural techniques. Vegetative techniques consist of establishing grass and plants on eroded banks to hold soil in place. Structural techniques, which include stone stabilization and erosion control products, are used when vegetation alone will not stop the erosion.

Each site described in this plan has its own unique characteristics and therefore has its own management recommendation. Below, each technique is described along with the associated cost of implementing the management recommendations.

VEGETATIVE EROSION AND SEDIMENT CONTROL TECHNIQUES

The traditional method of controlling sediment loss is to hand seed an area with grass seed and mulch to establish a root system that will help hold soil in place. Hand seeding can be labor intensive and is generally only recommended for small, flat areas that are easy to maintain. Although hand seeding is a proper method for establishing vegetation on some of the smaller sites described in this plan, a more efficient and cost effective way to establish vegetative cover is through hydroseeding.

Hydroseeding – Hydroseeding is the application of a slurry consisting of grass and vegetative seed, mulch, fertilizer and water, to large, bare soil areas. The traditional erosion control hydroseeding mix for the Champlain Watershed consists of annual and perennial rye, fescue and Kentucky bluegrass seed. Annual rye is used to establish quick vegetative cover and root systems while the



Hydroseeding in the Town of Moriah, Essex County.
Photo courtesy of Essex County SWCD.

slower growing perennial grasses establish their root system. These are warm season grasses that should be applied in the early spring. There are also an array of seed mixtures used for different soils, site types and slopes, which include conservation mixes, reclamation mixes and dense seed mixes.

Mulch is added to the seed mix to ensure a uniform application of the seed and provide a medium to retain moisture. The standard mulch product is recycled paper, however higher-end mulches consist of engineered wood fiber and cotton products, which increase the soil adhesiveness of the mulch. All mulch products biodegrade over time once the grass has been established. Tackifiers and polyacrylamide soil binders can also be added to the mulch to augment the longevity of the mix, increase water absorption and reduce sediment loss. More complex hydroseeding measures, such as bonded fiber matrixes (BFM) or flexible growth media (FGM) consist of wood fibers and engineered tackifiers that hold the hydroseed slurry on steep slopes. Applying a bonded fiber matrix is much like applying a liquid erosion control blanket.

Crown vetch and clover seed can also be added to traditional grass seed mixes when there is a need for a more dense vegetative cover. These plants develop a deep root system that hold sediment and grow to produce a thicker vegetative cover over the eroded area. Clover also increases nitrogen fixation which causes a denser vegetative cover to form.

The general cost to hydroseed ranges from \$0.20 to \$0.30 per square foot, with deviations depending on the specific site needs, location and site size. All five county SWCDs within the Champlain Basin own and operate hydroseeders, and can provide this service to local and county DPWs through grant opportunities at little to no cost.

Woody Plant Installation - Woody plants (shrubs) establish deep, supporting root systems that hold soil in place more effectively than grass. Woody plants are used in erosion and sediment control as a supplement to traditional hydroseeding and when there is a need for a higher aesthetic value. Shrubs are generally chosen for their appropriateness to the site conditions, their root network characteristics, and cost.

The general cost of adding woody plants is between \$5 - \$50 per plant, depending on the species and size of plants used.

STRUCTURAL EROSION AND SEDIMENT CONTROL TECHNIQUES

Stone Lining Ditches – Lining a ditch with stone slows water velocity, catches debris and provides erosion protection. This practice is generally recommended when vegetative measures are not adequate for the water velocity in the ditch, or the ditch is too wet to establish vegetation. Angular (blasted quarry) rock is the preferred material, due to its ability to lock in together more tightly and remain in place under higher flow conditions as compared to rounder cobbles. The ditch should be underlain with a non-woven filter fabric (felt-like material), to minimize “piping” of sediment up through the stone causing further erosion. Although stone lining is



Highway department lining roadside ditch with stone, Essex County. Photo courtesy of Essex County SWCD.

an easy practice to install with heavy equipment, it requires regular maintenance to remove built up sediment and debris to ensure it is properly functioning.

Currently, the cost of stone is around \$10.00 per ton, plus delivery fee and installation costs.

Erosion Control Blankets – Erosion control blankets, or “rolled erosion control products,” can provide an instant level of protection for eroding roadbanks and ditches. Traditionally, they are seven feet wide and 30 - 50 feet long and are manufactured from an array of materials including straw, coconut fiber and polypropylene. They can be used alone to reduce sediment loss or placed over seed that has been spread on bare soil to protect the seed during germination and growth. The erosion control blankets also provide a structural component to keep mulch and seed in place.

The cost for erosion control blankets range from \$1 to \$4 per square yard (depending upon the level of protection needed), and are easy to install.

Toe Stabilization – This method refers to stabilizing the bottom of a bank, which is key in the protection of the stability of an entire slope. This is done by excavating the base of the slope (the toe), then installing angular rock at the base to stop the eroding hill from mass-erosion events such as slumping and

rotational slips. Costs to stabilize the toe of a bank are incurred with the cost of the necessary amount of stone as well as labor and equipment costs.

Check Dams – Check dams can be constructed temporarily or permanently from stone and are used to remove coarse to medium sized sediment. This is done by slowing down the water velocity and allowing large sediment particles to settle out of suspension. There are many factors that go into constructing a check dam out of stone, but one important factor is to use well graded stone in a variety of sizes. Rip rap can be used as a temporary structure or river rock can be left in place permanently.

Triangular silt dikes TM, or other manufactured check dams, can be used temporarily when they are placed across a ditch or conveyance system. They can be used in place of stone check dams and follow the same standards and specifications as described in the NYS Standards and Specifications for Erosion and Sediment Control. They are easy to install and can be done with one person, whereas stone check dams require trucking and heavy equipment.

With all check dams, the upstream end needs to be cleaned out regularly to avoid the build up and overflow of sediment. For the purposes of this report, check dams should be used as a secondary measure to keep sediment from flowing down the conveyance system, while still using traditional erosion and sediment control techniques to keep

sediment on the eroding slope.

Generally, the cost of constructing a stone check dam is the cost of stone and labor. Triangular silt dikes TM cost around \$150.00 a piece, and are removable and re-usable.

Sediment Traps – Sediment traps are small detention ponds that stop water movement and allow all sizes of sediment to settle out of suspension. They are usually installed at a point of discharge to reduce sediment travel from an eroding site. Just as check dams, they need to be cleaned out regularly and should be used as a secondary measure to traditional erosion and sediment control techniques.

The most critical element of building a sediment trap is its size. If the trap is too small, as is often the case, a large storm event can wash the sediments out of the trap, rendering it useless. In general, the larger the trap, the better, as long as traditional highway department equipment can reach all parts of the trap for cleanout. The traps need to be accessible for regular cleanout activities, and constructed in such a way that the highway department does not need special easements, agreements, or equipment to maintain the traps long-term.

Building sediment traps usually does not require the purchase of outside materials, only a backhoe to dig the trap. Some may want to line the trap with stone, but there is a high likelihood that the stone will be removed during maintenance activities.



SEDIMENT LOGS FOR STABILIZATION IN ESSEX COUNTY.
PHOTO COURTESY OF THE ESSEX COUNTY SWCD

OVERALL FINDINGS

ROADSIDE EROSION ASSESSMENT AND INVENTORY

Throughout the five counties that make up the New York State Champlain Watershed a total of 319 roadside erosion sites were identified with a total remediation cost of \$1.7 million. Of these, 117 were identified as high priority, 77 as moderate priority and 125 as low priority sites.

The land area of Essex County is the largest in the NY Champlain Watershed and, as such, contains the greatest number of roadside erosion sites (Table 3). With roadways traversing steep topography, harsh growing conditions, and poor soils, Essex County boasts the highest remediation costs of the five counties at \$1.4 million. Several sites within the county require major structural corrective actions in addition to traditional remediation techniques such as hydroseeding and installation of sediment control practices. Many of Essex County's 'high-ticket' items can be attributed to the severe damage produced by the 2011 tropical storms Irene and Lee. Widespread roadside erosion from the storms will require a multitude of expensive repairs and stabilization practices throughout the county.

Surprisingly, Franklin County has the second highest number of roadside erosion sites despite the

comparatively small land mass within the watershed. Similar to Essex County, the soils in Franklin County consist of highly erodible, poorly vegetated sands and gravels. It is important to note, however, that the majority of Franklin County's sites score as low priority, and can most likely be remediated through expanding the county SWCD's hydroseeding program.

The majority of roadside erosion sites assessed in Clinton County were found in the higher elevation areas in the western and southern portions of the county. Expectedly, the predominant soil types in these locations are the un-vegetated, unstable sands and gravels. The same trend explains the low number of sites assessed in Washington County, where the majority of the roadside erosion locations were discovered in the higher elevation sandy soil areas, not in the clay and silt-laden lowlands.

Unlike the clay and sand soil mixtures of Clinton, Essex and Washington Counties, Warren County is dominated exclusively by sandy soils. In comparison, there are the same amount of erosion sites throughout the large land mass of Clinton County's watershed as the smaller acreage of Warren County's Lake

Table 3. Number of high, moderate and low priority erosion sites per county.

| County | Number of Sites per Priority | | | Percentage of sites in Champlain Watershed | Total Restoration Costs per County |
|------------|------------------------------|----------|-----|--|------------------------------------|
| | High | Moderate | Low | | |
| Clinton | 22 | 6 | 6 | 11% | \$91,150 |
| Essex | 50 | 39 | 42 | 40% | \$1,443,650 |
| Franklin | 14 | 13 | 62 | 28% | \$72,700 |
| Warren | 19 | 8 | 7 | 11% | \$35,350 |
| Washington | 12 | 11 | 8 | 10% | \$65,750 |

Table 4. Total number of roadside erosion sites and restoration costs per town.

| TOWNSHIP | COUNTY | SUBWATERSHED | TOTAL # OF EROSION SITES IDENTIFIED | TOTAL RESTORATION COST |
|---------------|------------|--|-------------------------------------|------------------------|
| Altona | Clinton | Chazy River | 1 | \$5000 |
| Ausable | Clinton | Ausable River | 3 | \$8500 |
| Beeckmantown | Clinton | Saranac River | 1 | \$2000 |
| Black Brook | Clinton | Saranac River/Ausable River | 13 | \$33,750 |
| Bolton | Warren | Lake George | 15 | \$15,100 |
| Brighton | Franklin | Saranac River | 3 | \$1300 |
| Chesterfield | Essex | Lake Champlain/Ausable River | 8 | \$4600 |
| Crown Point | Essex | Lake Champlain | 9 | \$9700 |
| Dannemora | Clinton | Saranac River | 2 | \$2500 |
| Dresden | Washington | South Lake Champlain | 1 | \$600 |
| Elizabethtown | Essex | Boquet River | 10 | \$14,300 |
| Essex | Essex | Boquet River/Lake Champlain | 6 | \$152,500 |
| Fort Ann | Washington | South Lake Champlain/Lake George/Halfway Brook | 7 | \$13,000 |
| Franklin | Franklin | Saranac River | 56 | \$54,200 |
| Granville | Washington | Mettawee River | 2 | \$10,000 |
| Hague | Warren | Lake George | 2 | \$1000 |
| Hampton | Washington | Poultney River | 2 | \$15,650 |
| Harriestown | Franklin | Saranac River | 26 | \$15,200 |
| Hartford | Washington | South Lake Champlain | 5 | \$5700 |
| Jay | Essex | Ausable River | 12 | \$17,600 |
| Keene | Essex | Ausable River | 13 | \$25,600 |
| Kingsbury | Washington | Halfway Brook / Champlain Canal | 2 | \$4750 |
| Lake George | Warren | Lake George | 4 | \$5750 |
| Lewis | Essex | Boquet River | 3 | \$2300 |
| Moriah | Essex | Lake Champlain | 11 | \$211,700 |
| North Elba | Essex | Ausable River | 13 | \$41,800 |
| Peru | Clinton | Ausable River | 2 | \$2500 |
| Putnam | Washington | South Lake Champlain/Lake George | 4 | \$5000 |
| Queensbury | Warren | Halfway Brook | 13 | \$13,500 |
| Santa Clara | Franklin | Saranac River | 4 | \$2000 |
| Saranac | Clinton | Saranac River | 10 | \$36,900 |
| St. Armand | Essex | Saranac River | 7 | \$4950 |
| Ticonderoga | Essex | Lake Champlain | 4 | \$2000 |
| Westport | Essex | Boquet River/Lake Champlain | 24 | \$901,200 |
| Whitehall | Washington | South Lake Champlain/Mettawee River | 8 | \$11,050 |
| Willsboro | Essex | Boquet River | 2 | \$20,500 |
| Wilmington | Essex | Ausable River | 9 | \$34,900 |
| | | TOTAL | 319 | \$1,708,600 |

Champlain Basin is also considerably more developed than other areas of the watershed, equating to more extensive, heavily traveled road corridors, increasing the potential for erosion.

of high priority sites. However, the majority of the sites have been ranked as low priority and can most likely be remediated through increasing the county hydroseeding efforts.

Table 4 presents each township within the watershed, the major sub-watershed it is within, the total number of erosion sites and the total restoration costs for roads within the town boundaries. It is important to note that the total number of erosion sites in Table 4 includes sites found on state, county, town and private roads, and therefore the costs reported for remediation do not fall solely on the township.

The Ausable River watershed has the second greatest number of high priority roadside erosion sites of all the river basins. This can be attributed to the Ausable River’s massive drainage area including the Main, East, and West Branches of the river that extend into the High Peaks region of the Adirondack Mountains. It is the dominant river basin within Essex County and also drains land in Clinton County, where the river empties into Lake Champlain in the Town of Keeseville.

Total roadside erosion sites identified per major sub-watershed can be found in Table 5. The greatest number of erosion sites per major subwatershed is within the Saranac River sub-basin, encompassing acreage in Franklin, Essex and Clinton Counties. The soils within the Saranac River basin are primarily upland sands and gravels, and have a higher erosion rate than the clay soils found closer to Lake Champlain, accounting for the highest number

of high priority erosion sites located in close proximity to draining directly into Lake Champlain. The majority of these sites are located in Essex County with a small number in Washington County. These areas should be key focus locations as sediment deposition primarily impacts the lake.

Table 5. Number of high, moderate and low priority erosion sites per major subwatershed.

| Major Subwatershed | Number of Sites per Priority | | | Percentage of sites in Champlain Watershed |
|--------------------|------------------------------|----------|-----|--|
| | High | Moderate | Low | |
| Ausable River | 25 | 17 | 20 | 20% |
| Boquet River | 9 | 7 | 9 | 8% |
| Champlain Canal | 1 | 0 | 0 | 0% |
| Chazy River | 2 | 0 | 0 | 1% |
| Halfway Brook | 5 | 5 | 4 | 4% |
| Lake Champlain | 27 | 18 | 16 | 19% |
| Lake George | 16 | 6 | 5 | 8% |
| Mettawee River | 3 | 4 | 2 | 3% |
| Poultney River | 1 | 0 | 1 | 1% |
| Saranac River | 28 | 20 | 68 | 36% |

* The data for the Ausable River includes all branches and data presented for Lake Champlain includes north, main and south basins.

The remaining subwatersheds all have comparative numbers of sites, with the Lake George basin having the greatest number of high priority sites. This again can be attributed to the sandy soils in Warren County and the more extensive roads networks.

The highest percentage of roadside erosion sites fall under the jurisdiction of the towns, followed by county and then state jurisdiction (Table 6). This result can be attributed to the larger number of miles of town roads within the watershed than county or state roads. Three high priority sites were identified on private roads, where remediation responsibilities and costs are the individual landowners. The Unknown Jurisdiction site identified is located in Franklin County and straddles both private and town jurisdictions. This site remediation is complicated and would likely require certain actions and compromises involving both owners.

Overall, this roadside erosion inventory and assessment project has produced valuable data on the restoration and stabilization of roadside erosion sites within the Champlain Watershed. Secondly, the project has pin-pointed areas to monitor for further sediment loading into Lake Champlain and its tributaries.

The remainder of this document provides specific information for each individual site broken up by county and alphabetized by town. The high priority sites are documented first, followed by the moderate and low priority sites. Town and county wide maps have also been created. The information contained herein is intended to provide state, county and town highway supervisors and crews with general site information for future remediation efforts and help foster stronger partnerships with the LCLGRPB, CWICNY and their county SWCD's.

Table 6. Number of high, moderate and low priority erosion sites per road jurisdiction.

| Road Jurisdiction | Number of Sites per Priority | | | Percentage of sites in Champlain Watershed |
|-------------------|------------------------------|----------|-----|--|
| | High | Moderate | Low | |
| State | 5 | 5 | 12 | 7% |
| County | 33 | 18 | 27 | 24% |
| Town | 76 | 53 | 86 | 68% |
| Private | 3 | 0 | 0 | 1% |
| Unknown | 0 | 1 | 0 | 0% |



ROADSIDE EROSION IN WARREN COUNTY. PHOTO COURTESY OF THE WARREN COUNTY SWCD

CLINTON COUNTY



GREAT CHAZY RIVER

Clinton County is geographically situated in the northeastern most corner of New York State. The County shares its entire northern border with Quebec, Canada, flanked on the east by Lake Champlain and the Adirondack Mountains to the west and south. Topographically, the County slopes gradually from the Adirondacks highlands to the eastern agricultural lowlands and shores of Lake Champlain. Clinton County is comprised predominantly of rural farmland and woodland with one main urbanized area, the City of Plattsburgh. All 14 towns and four villages in the county lie partially or wholly within the Champlain Watershed. Hundreds of miles of roadways connect municipalities and residents throughout the county and are comprised of gravel or asphalt surfaces that receive varying degrees of maintenance.

Clays and loams are the predominant soils throughout the agricultural lands in the county while easily-erodible fine sands and gravelly soils are consistent throughout the higher elevation woodlands. There are three main river basins within the county; the Ausable River, Chazy River (includes both the Great Chazy River and the Little Chazy River) and Saranac River. Both

Chazy Rivers originate in the western part of Clinton County and flow east through the most intensive agricultural areas in New York State and discharge into northern Lake Champlain. Saranac River originates near Upper Saranac Lake in Franklin County and flows east through Clinton County into the City of Plattsburgh, where it ultimately discharges into northern Lake Champlain. The Saranac River is known for its diverse fisheries, most notably landlocked salmon.

In all, 34 roadside erosion sites were identified on state, county and town roads throughout eight municipalities. Of these, 22 are High Priority, 6 are Moderate Priority and 6 are Low Priority. Primarily, the locations in Clinton County are experiencing erosion due to steep slopes and long-term inability to stabilize and re-vegetate due to low soil nutrient levels. The primary recommendations for remediating the identified sites are vegetating through hydroseeding and placement/installation of erosion and sediment control structures on steep slopes and roadside ditches. The remediation cost for the sites range from \$350 to \$12,000. The cumulative remediation costs for the 34 sites in Clinton County totals \$91,150.

CLINTON COUNTY SITES

TOWN | MAJOR SUBWATERSHEDS | ROADS

| Town | Number of Sites per Priority | | | Percentage of sites in County |
|-------------|------------------------------|----------|-----|-------------------------------|
| | High | Moderate | Low | |
| Altona | 1 | 0 | 0 | 3% |
| Ausable | 3 | 0 | 0 | 9% |
| Beekmantown | 1 | 0 | 0 | 3% |
| Black Brook | 7 | 2 | 4 | 38% |
| Dannemora | 1 | 0 | 1 | 6% |
| Peru | 2 | 0 | 0 | 6% |
| Saranac | 7 | 4 | 1 | 35% |

| Major Subwatershed | Number of Sites per Priority | | | Percentage of sites in County |
|--------------------|------------------------------|----------|-----|-------------------------------|
| | High | Moderate | Low | |
| Ausable River | 9 | 1 | 0 | 29% |
| Chazy River | 2 | 0 | 0 | 6% |
| Saranac River | 11 | 5 | 6 | 65% |

| Road Jurisdiction | Number of Sites per Priority | | | Percentage of sites in County |
|-------------------|------------------------------|----------|-----|-------------------------------|
| | High | Moderate | Low | |
| State Roads | 0 | 1 | 1 | 6% |
| County Roads | 7 | 1 | 2 | 29% |
| Town Roads | 14 | 4 | 3 | 62% |
| Private Roads | 1 | 0 | 0 | 3% |

| IDENTIFICATION #1 | | IDENTIFICATION #30 | |
|--|---|--|---|
| Town Altona |  | Town Ausable |  |
| Road Name | Irona Road | Road Name | Dry Bridge Road |
| Jurisdiction | County | Jurisdiction | County |
| Watershed | Chazy River | Watershed | Ausable River |
| Direct connection to water | Yes - Culvert | Direct connection to water | Yes - Wetland |
| % of Vegetation | 0 | % of Vegetation | 0 |
| Bank Slope | Moderate | Bank Slope | Steep |
| Level of Erosion | Moderate | Level of Erosion | High |
| Length of Erosion (ft) | 100 | Length of Erosion (ft) | 75 |
| Width of Erosion (ft) | 50 | Width of Erosion (ft) | 75 |
| Total Area of Erosion (ft ²) | 5000 | Total Area of Erosion (ft ²) | 5625 |
| Soil Type | Sandy loam | Soil Type | Coarse sand & gravel |
| Management Recommendations | Hydroseed with clover and rye | Management Recommendations | Hydroseed with reclamation mix |
| Cost | \$4000 - \$5000 | Cost | \$1500 - \$2500 |
| Total Points | 50 | Total Points | 60 |
| Rank | High | Rank | High |
| IDENTIFICATION #31 | | IDENTIFICATION #32 | |
| Town Ausable |  | Town Ausable |  |
| Road Name | Clintonville Road | Road Name | Clintonville Road |
| Jurisdiction | County | Jurisdiction | County |
| Watershed | Ausable River | Watershed | Ausable River |
| Direct connection to water | No | Direct connection to water | No |
| % of Vegetation | 15 | % of Vegetation | 15 |
| Bank Slope | Steep | Bank Slope | Steep |
| Level of Erosion | High | Level of Erosion | High |
| Length of Erosion (ft) | 75 | Length of Erosion (ft) | 75 |
| Width of Erosion (ft) | 30 | Width of Erosion (ft) | 30 |
| Total Area of Erosion (ft ²) | 2250 | Total Area of Erosion (ft ²) | 2250 |
| Soil Type | Fine Sand | Soil Type | Fine sand |
| Management Recommendations | Hydroseed with reclamation mix | Management Recommendations | Install sediment trap and hydroseed with reclamation mix |
| Cost | \$2500 - \$3500 | Cost | \$1500 - \$2500 |
| Total Points | 50 | Total Points | 50 |
| Rank | High | Rank | High |

| IDENTIFICATION #2 | | IDENTIFICATION #18 | |
|--|---|--|---|
| Town Beekmantown |  | Town Black Brook |  |
| Road Name | Bear Town Road | Road Name | Soucy Road |
| Jurisdiction | Town | Jurisdiction | Town |
| Watershed | Saranac River | Watershed | Saranac River |
| Direct connection to water | No | Direct connection to water | No |
| % of Vegetation | 30 | % of Vegetation | 30 |
| Bank Slope | Steep | Bank Slope | Steep |
| Level of Erosion | Moderate | Level of Erosion | High |
| Length of Erosion (ft) | 125 | Length of Erosion (ft) | 150 |
| Width of Erosion (ft) | 20 | Width of Erosion (ft) | 75 |
| Total Area of Erosion (ft ²) | 2500 | Total Area of Erosion (ft ²) | 11,250 |
| Soil Type | Sandy | Soil Type | Sandy gravel |
| Management Recommendations | Hydroseed with conservation mix and tackifier | Management Recommendations | Re-grade slope, install woody plants and hydroseed |
| Cost | \$1500 - \$2000 | Cost | \$4500 - \$6000 |
| Total Points | 40 | Total Points | 45 |
| Rank | High | Rank | High |
| IDENTIFICATION #19 | | IDENTIFICATION #24 | |
| Town Black Brook |  | Town Black Brook |  |
| Road Name | Cass Road | Road Name | Silver Lake Road |
| Jurisdiction | Town | Jurisdiction | County |
| Watershed | Saranac River | Watershed | Saranac River |
| Direct connection to water | No | Direct connection to water | Yes - Lake |
| % of Vegetation | 0 | % of Vegetation | 40 |
| Bank Slope | Steep | Bank Slope | Steep |
| Level of Erosion | High | Level of Erosion | Moderate |
| Length of Erosion (ft) | 250 | Length of Erosion (ft) | 75 |
| Width of Erosion (ft) | 4 | Width of Erosion (ft) | 10 |
| Total Area of Erosion (ft ²) | 1000 | Total Area of Erosion (ft ²) | 750 |
| Soil Type | Sand | Soil Type | Sandy loam and gravel |
| Management Recommendations | Hydroseed | Management Recommendations | Re-grade slope and hydroseed with conservation mix |
| Cost | \$350 - \$550 | Cost | \$500 - \$650 |
| Total Points | 40 | Total Points | 40 |
| Rank | High | Rank | High |

IDENTIFICATION #25

Town
Black Brook

Road Name Forestdale Road
Jurisdiction Town
Watershed Ausable River



IDENTIFICATION #27

Town
Black Brook

Road Name Guide Board Road
Jurisdiction County
Watershed Ausable River



| | |
|--|--|
| Direct connection to water | Yes - Wetland |
| % of Vegetation | 50 |
| Bank Slope | Steep |
| Level of Erosion | Moderate |
| Length of Erosion (ft) | 75 |
| Width of Erosion (ft) | 10 |
| Total Area of Erosion (ft ²) | 750 |
| Soil Type | Sandy gravel |
| Management Recommendations | Re-grade slope and hydroseed with conservation mix |
| Cost | \$500 - \$650 |
| Total Points | 40 |
| Rank | High |

| | |
|--|---------------------------------|
| Direct connection to water | Yes - Stream |
| % of Vegetation | 30 |
| Bank Slope | Moderate |
| Level of Erosion | Moderate |
| Length of Erosion (ft) | 2500 |
| Width of Erosion (ft) | 5 |
| Total Area of Erosion (ft ²) | 12,500 |
| Soil Type | Sandy |
| Management Recommendations | Hydroseed with conservation mix |
| Cost | \$4000 - \$5000 |
| Total Points | 45 |
| Rank | High |

IDENTIFICATION #28

Town
Black Brook

Road Name Narrows Road
Jurisdiction Private
Watershed Ausable River



IDENTIFICATION #29

Town
Black Brook

Road Name Golf Course Road
Jurisdiction Town
Watershed Ausable River




| | |
|--|---|
| Direct connection to water | Yes - Lake |
| % of Vegetation | 50 |
| Bank Slope | Steep |
| Level of Erosion | Moderate |
| Length of Erosion (ft) | 300 |
| Width of Erosion (ft) | 50 |
| Total Area of Erosion (ft ²) | 15,000 |
| Soil Type | Sandy gravel |
| Management Recommendations | Install check dam and sediment catch basin, hydroseed |
| Cost | \$5500 - \$6500 |
| Total Points | 50 |
| Rank | High |

| | |
|--|--|
| Direct connection to water | No |
| % of Vegetation | 5 |
| Bank Slope | Steep |
| Level of Erosion | High |
| Length of Erosion (ft) | 150 |
| Width of Erosion (ft) | 40 |
| Total Area of Erosion (ft ²) | 6000 |
| Soil Type | Fine sand |
| Management Recommendations | Re-grade slope and hydroseed with conservation mix |
| Cost | \$2000 - \$3000 |
| Total Points | 50 |
| Rank | High |


| IDENTIFICATION #23 | | IDENTIFICATION #26 | |
|--|---|--|---|
| Town Black Brook |  | Town Black Brook |  |
| Road Name | Union Falls/ Silver Lake Road | Road Name | Goodrich Mills Road |
| Jurisdiction | County | Jurisdiction | Town |
| Watershed | Saranac River | Watershed | Ausable River |
| Direct connection to water | No | Direct connection to water | Yes - Wetland |
| % of Vegetation | 45 | % of Vegetation | 75 |
| Bank Slope | Moderate | Bank Slope | Steep |
| Level of Erosion | Moderate | Level of Erosion | Moderate |
| Length of Erosion (ft) | 250 | Length of Erosion (ft) | 150 |
| Width of Erosion (ft) | 15 | Width of Erosion (ft) | 10 |
| Total Area of Erosion (ft ²) | 3750 | Total Area of Erosion (ft ²) | 1500 |
| Soil Type | Fine sand | Soil Type | Coarse sand |
| Management Recommendations | Install checkdam and sediment catch basin, hydroseed | Management Recommendations | Re-grade slope and hydroseed with conservation mix |
| Cost | \$1500 - \$2500 | Cost | \$600 - \$750 |
| Total Points | 35 | Total Points | 35 |
| Rank | Moderate | Rank | Moderate |
| IDENTIFICATION #17 | | IDENTIFICATION #20 | |
| Town Black Brook |  | Town Black Brook |  |
| Road Name | Silver Lake Road | Road Name | Cass Road |
| Jurisdiction | County | Jurisdiction | Town |
| Watershed | Saranac River | Watershed | Saranac River |
| Direct connection to water | No | Direct connection to water | No |
| % of Vegetation | 40 | % of Vegetation | 80 |
| Bank Slope | Moderate | Bank Slope | Low |
| Level of Erosion | Low | Level of Erosion | Moderate |
| Length of Erosion (ft) | 300 | Length of Erosion (ft) | 300 |
| Width of Erosion (ft) | 5 | Width of Erosion (ft) | 3 |
| Total Area of Erosion (ft ²) | 1500 | Total Area of Erosion (ft ²) | 900 |
| Soil Type | Sandy loam | Soil Type | Sandy |
| Management Recommendations | Install 2 check dams and hydroseed | Management Recommendations | Hydroseed with conservation mix |
| Cost | \$600 - \$800 | Cost | \$300 - \$400 |
| Total Points | 21 | Total Points | 11 |
| Rank | Low | Rank | Low |

IDENTIFICATION #21

| | |
|-------------------------|---|
| Town Black Brook |  |
| Road Name Casey Road | |
| Jurisdiction Town | |
| Watershed Saranac River | |


| | |
|--|---------------------------------|
| Direct connection to water | No |
| % of Vegetation | 80 |
| Bank Slope | Low |
| Level of Erosion | Low |
| Length of Erosion (ft) | 125 |
| Width of Erosion (ft) | 10 |
| Total Area of Erosion (ft ²) | 1250 |
| Soil Type | Sandy |
| Management Recommendations | Hydroseed with conservation mix |
| Cost | \$350 - \$450 |
| Total Points | 8 |
| Rank | Low |

IDENTIFICATION #22

| | |
|----------------------------|---|
| Town Black Brook |  |
| Road Name Union Falls Road | |
| Jurisdiction County | |
| Watershed Saranac River | |


| | |
|--|---------------------------------|
| Direct connection to water | No |
| % of Vegetation | 60 |
| Bank Slope | Low |
| Level of Erosion | Low |
| Length of Erosion (ft) | 5000 |
| Width of Erosion (ft) | 4 |
| Total Area of Erosion (ft ²) | 20,000 |
| Soil Type | Course Sand |
| Management Recommendations | Hydroseed with conservation mix |
| Cost | \$5000 - \$6500 |
| Total Points | 22 |
| Rank | Low |

IDENTIFICATION #5

| | |
|-----------------------------|---|
| Town Dannemora |  |
| Road Name Wilfred Kind Road | |
| Jurisdiction Town | |
| Watershed Chazy River | |

| | |
|--|--|
| Direct connection to water | Yes - Lake |
| % of Vegetation | 0 |
| Bank Slope | Steep |
| Level of Erosion | High |
| Length of Erosion (ft) | 150 |
| Width of Erosion (ft) | 15 |
| Total Area of Erosion (ft ²) | 2250 |
| Soil Type | Gravel |
| Management Recommendations | Install 2 sediment traps and hydroseed |
| Cost | \$1500 - \$2000 |
| Total Points | 60 |
| Rank | High |


IDENTIFICATION #4

| | |
|---------------------------|---|
| Town Dannemora |  |
| Road Name State Route 374 | |
| Jurisdiction State | |
| Watershed Saranac River | |

| | |
|--|---|
| Direct connection to water | No |
| % of Vegetation | 60 |
| Bank Slope | Moderate |
| Level of Erosion | Moderate |
| Length of Erosion (ft) | 250 |
| Width of Erosion (ft) | 4 |
| Total Area of Erosion (ft ²) | 1000 |
| Soil Type | Sandy |
| Management Recommendations | Hydroseed with conservation mix and tackifier |
| Cost | \$300 - \$500 |
| Total Points | 20 |
| Rank | Low |


| IDENTIFICATION #33 | | IDENTIFICATION #34 | |
|--|---|--|---|
| Town Peru |  | Town Peru |  |
| Road Name Fuller Street | | Road Name Fuller Street | |
| Jurisdiction Town | | Jurisdiction Town | |
| Watershed Ausable River | | Watershed Ausable River | |
| Direct connection to water | No | Direct connection to water | No |
| % of Vegetation | 5 | % of Vegetation | 25 |
| Bank Slope | Steep | Bank Slope | Steep |
| Level of Erosion | Moderate | Level of Erosion | High |
| Length of Erosion (ft) | 65 | Length of Erosion (ft) | 250 |
| Width of Erosion (ft) | 30 | Width of Erosion (ft) | 20 |
| Total Area of Erosion (ft ²) | 1950 | Total Area of Erosion (ft ²) | 5000 |
| Soil Type | Sandy Loam | Soil Type | Sandy gravel |
| Management Recommendations | Hydroseed with conservation mix | Management Recommendations | Install 2 check dams and hydroseed with conservation mix |
| Cost | \$400 - \$500 | Cost | \$1500 - \$2000 |
| Total Points | 40 | Total Points | 50 |
| Rank | High | Rank | High |
| IDENTIFICATION #3 | | IDENTIFICATION #6 | |
| Town Saranac |  | Town Saranac |  |
| Road Name Town Line Road | | Road Name Soper Street | |
| Jurisdiction Town | | Jurisdiction Town | |
| Watershed Saranac River | | Watershed Saranac River | |
| Direct connection to water | No | Direct connection to water | No |
| % of Vegetation | 50 | % of Vegetation | 10 |
| Bank Slope | Steep | Bank Slope | Steep |
| Level of Erosion | High | Level of Erosion | High |
| Length of Erosion (ft) | 3000 | Length of Erosion (ft) | 75 |
| Width of Erosion (ft) | 10 | Width of Erosion (ft) | 75 |
| Total Area of Erosion (ft ²) | 30,000 | Total Area of Erosion (ft ²) | 5625 |
| Soil Type | Sandy gravel | Soil Type | Sand |
| Management Recommendations | Install check dams every 100' and hydroseed | Management Recommendations | Install erosion blankets and sediment traps, hydroseed |
| Cost | \$6000 - \$8000 | Cost | \$2500 - \$3000 |
| Total Points | 45 | Total Points | 50 |
| Rank | High | Rank | High |

IDENTIFICATION #8

| | |
|-------------------------|---|
| Town Saranac |  |
| Road Name Priest Road | |
| Jurisdiction Town | |
| Watershed Saranac River | |


| | |
|--|---|
| Direct connection to water | No |
| % of Vegetation | 25 |
| Bank Slope | Steep |
| Level of Erosion | High |
| Length of Erosion (ft) | 125 |
| Width of Erosion (ft) | 30 |
| Total Area of Erosion (ft ²) | 3750 |
| Soil Type | Sandy gravel |
| Management Recommendations | Install erosion blankets and sediment traps & hydroseed |
| Cost | \$2500 - \$3500 |
| Total Points | 50 |
| Rank | High |

IDENTIFICATION #12

| | |
|---------------------------|---|
| Town Saranac |  |
| Road Name True Brook Road | |
| Jurisdiction Town | |
| Watershed Saranac River | |


| | |
|--|---------------------------------|
| Direct connection to water | No |
| % of Vegetation | 15 |
| Bank Slope | Steep |
| Level of Erosion | High |
| Length of Erosion (ft) | 200 |
| Width of Erosion (ft) | 15 |
| Total Area of Erosion (ft ²) | 2000 |
| Soil Type | Sand and gravel |
| Management Recommendations | Hydroseed with conservation mix |
| Cost | \$600 - \$1000 |
| Total Points | 50 |
| Rank | High |

IDENTIFICATION #14

| | |
|---------------------------|---|
| Town Saranac |  |
| Road Name True Brook Road | |
| Jurisdiction Town | |
| Watershed Saranac River | |

| | |
|--|---------------------------------|
| Direct connection to water | No |
| % of Vegetation | 20 |
| Bank Slope | Steep |
| Level of Erosion | High |
| Length of Erosion (ft) | 250 |
| Width of Erosion (ft) | 30 |
| Total Area of Erosion (ft ²) | 7500 |
| Soil Type | Sand |
| Management Recommendations | Hydroseed with conservation mix |
| Cost | \$1000 - \$1500 |
| Total Points | 50 |
| Rank | High |

IDENTIFICATION #15

| | |
|---------------------------|---|
| Town Saranac |  |
| Road Name Cold Brook Road | |
| Jurisdiction Town | |
| Watershed Saranac River | |

| | |
|--|---------------------------------|
| Direct connection to water | No |
| % of Vegetation | 25 |
| Bank Slope | Moderate |
| Level of Erosion | Moderate |
| Length of Erosion (ft) | 250 |
| Width of Erosion (ft) | 10 |
| Total Area of Erosion (ft ²) | 2500 |
| Soil Type | Sand |
| Management Recommendations | Hydroseed with conservation mix |
| Cost | \$600 - \$800 |
| Total Points | 40 |
| Rank | High |

| IDENTIFICATION #16 | | IDENTIFICATION #7 | |
|--|---|--|---|
| Town Saranac |  | Town Saranac |  |
| Road Name | Standish Road | Road Name | State Route 3 |
| Jurisdiction | County | Jurisdiction | State |
| Watershed | Saranac River | Watershed | Saranac River |
| Direct connection to water | Yes - Brook | Direct connection to water | No |
| % of Vegetation | 30 | % of Vegetation | 10 |
| Bank Slope | Steep | Bank Slope | Low |
| Level of Erosion | High | Level of Erosion | Moderate |
| Length of Erosion (ft) | 500 | Length of Erosion (ft) | 400 |
| Width of Erosion (ft) | 30 | Width of Erosion (ft) | 7 |
| Total Area of Erosion (ft ²) | 15,000 | Total Area of Erosion (ft ²) | 2800 |
| Soil Type | Sand and gravel | Soil Type | Sandy loam |
| Management Recommendations | Install sediment traps, erosion blankets, woody plants and hydroseed | Management Recommendations | Hydroseed with crown vetch mix |
| Cost | \$10,000 - \$12,000 | Cost | \$400 - \$500 |
| Total Points | 60 | Total Points | 36 |
| Rank | High | Rank | Moderate |
| IDENTIFICATION #10 | | IDENTIFICATION #11 | |
| Town Saranac |  | Town Saranac |  |
| Road Name | Clark Hill Road | Road Name | Plumadore Road |
| Jurisdiction | Town | Jurisdiction | Town |
| Watershed | Saranac River | Watershed | Saranac River |
| Direct connection to water | No | Direct connection to water | No |
| % of Vegetation | 45 | % of Vegetation | 50 |
| Bank Slope | Steep | Bank Slope | Moderate |
| Level of Erosion | High | Level of Erosion | Moderate |
| Length of Erosion (ft) | 125 | Length of Erosion (ft) | 750 |
| Width of Erosion (ft) | 10 | Width of Erosion (ft) | 10 |
| Total Area of Erosion (ft ²) | 1250 | Total Area of Erosion (ft ²) | 7500 |
| Soil Type | Sand | Soil Type | Sandy loam |
| Management Recommendations | Install sediment traps and hydroseed with conservation mix | Management Recommendations | Hydroseed with conservation mix |
| Cost | \$2500 - \$3000 | Cost | \$850 - \$1000 |
| Total Points | 35 | Total Points | 35 |
| Rank | Moderate | Rank | Moderate |

IDENTIFICATION #13

IDENTIFICATION #9

Town
Saranac

Road Name True Brook Road

Jurisdiction Town

Watershed Saranac River

Town
Saranac

Road Name Clark Hill Road

Jurisdiction Town

Watershed Saranac River



Direct connection to water

No

% of Vegetation

20

Bank Slope

Steep

Level of Erosion

Moderate

Length of Erosion (ft)

150

Width of Erosion (ft)

10

Total Area of Erosion (ft²)

1500

Soil Type

Sandy

Management

Hydroseed with
conservation mix

Recommendations

Cost

\$400 - \$600

Total Points

35

Rank

Moderate

Direct connection to water

No

% of Vegetation

75

Bank Slope

Moderate

Level of Erosion

Moderate

Length of Erosion (ft)

1500

Width of Erosion (ft)

5

Total Area of Erosion (ft²)

7500

Soil Type

Sandy loam

Management

Recommendations

Hydroseed with conserva-
tion mix and crown vetch

Cost

\$1500 - \$2000

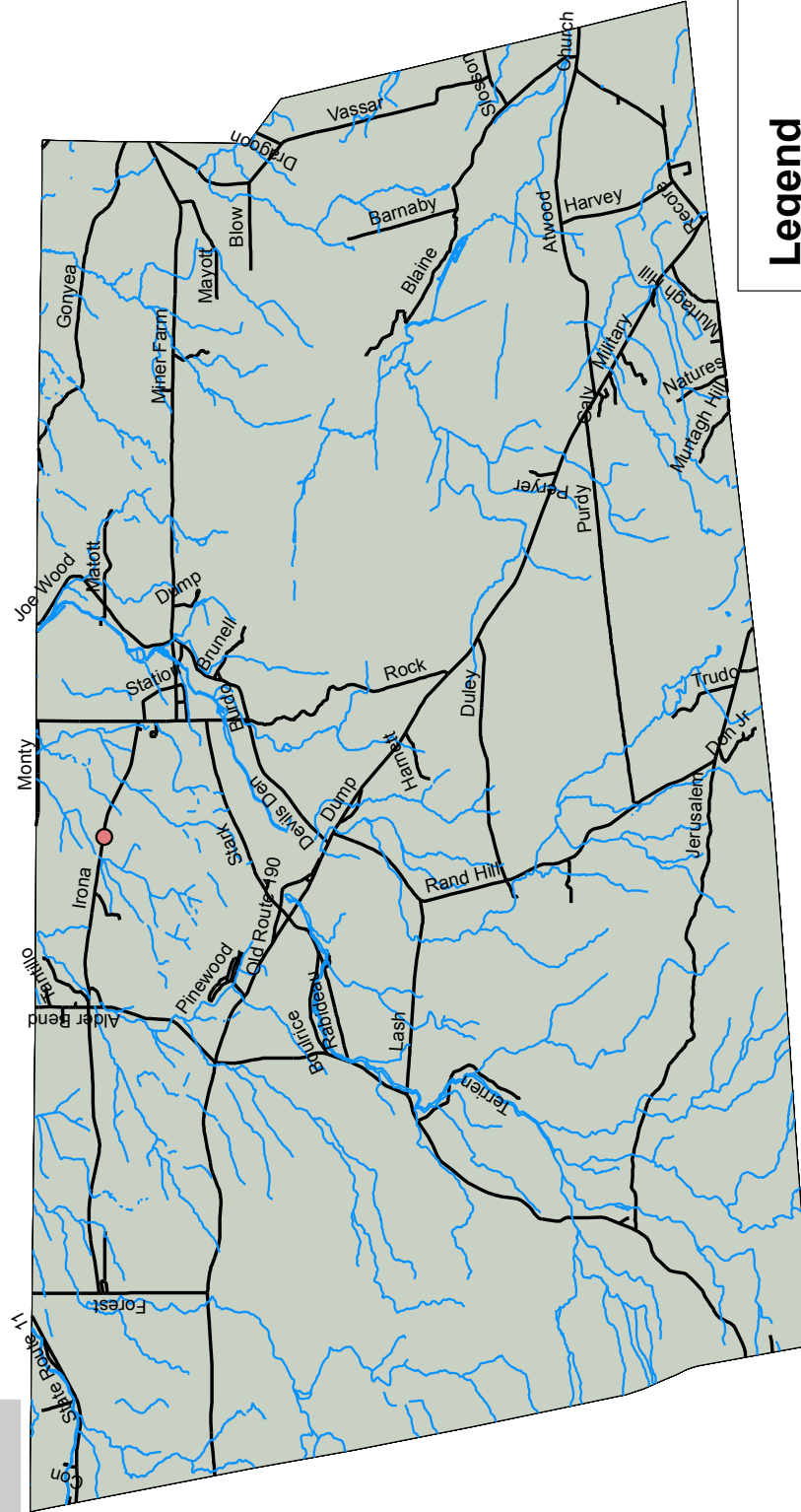
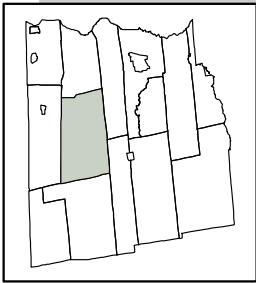
Total Points

30

Rank

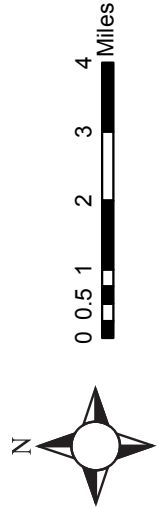
Low

Town of Altona ARRA Roadside Erosion Inventory Project

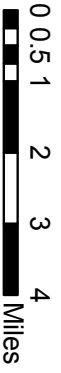
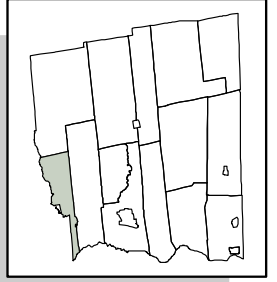


Legend






- High (Red dot)
- Hydrology (Blue line)
- Roads (Black line)
- Town of Altona (Light green shaded area)

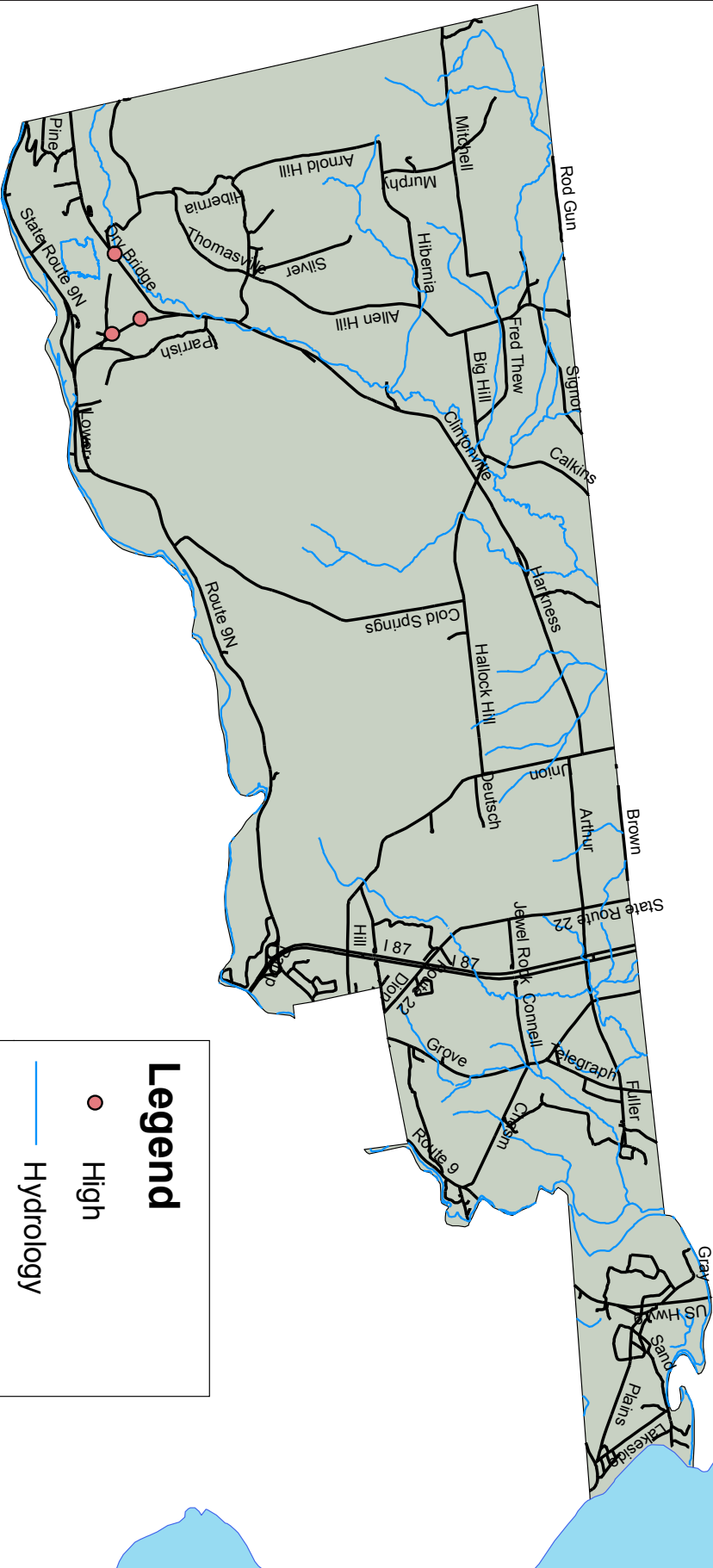


Town of Ausable ARRA Roadside Erosion Inventory Project



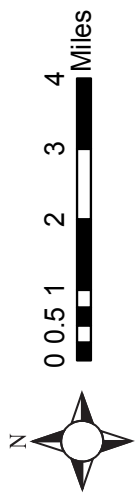
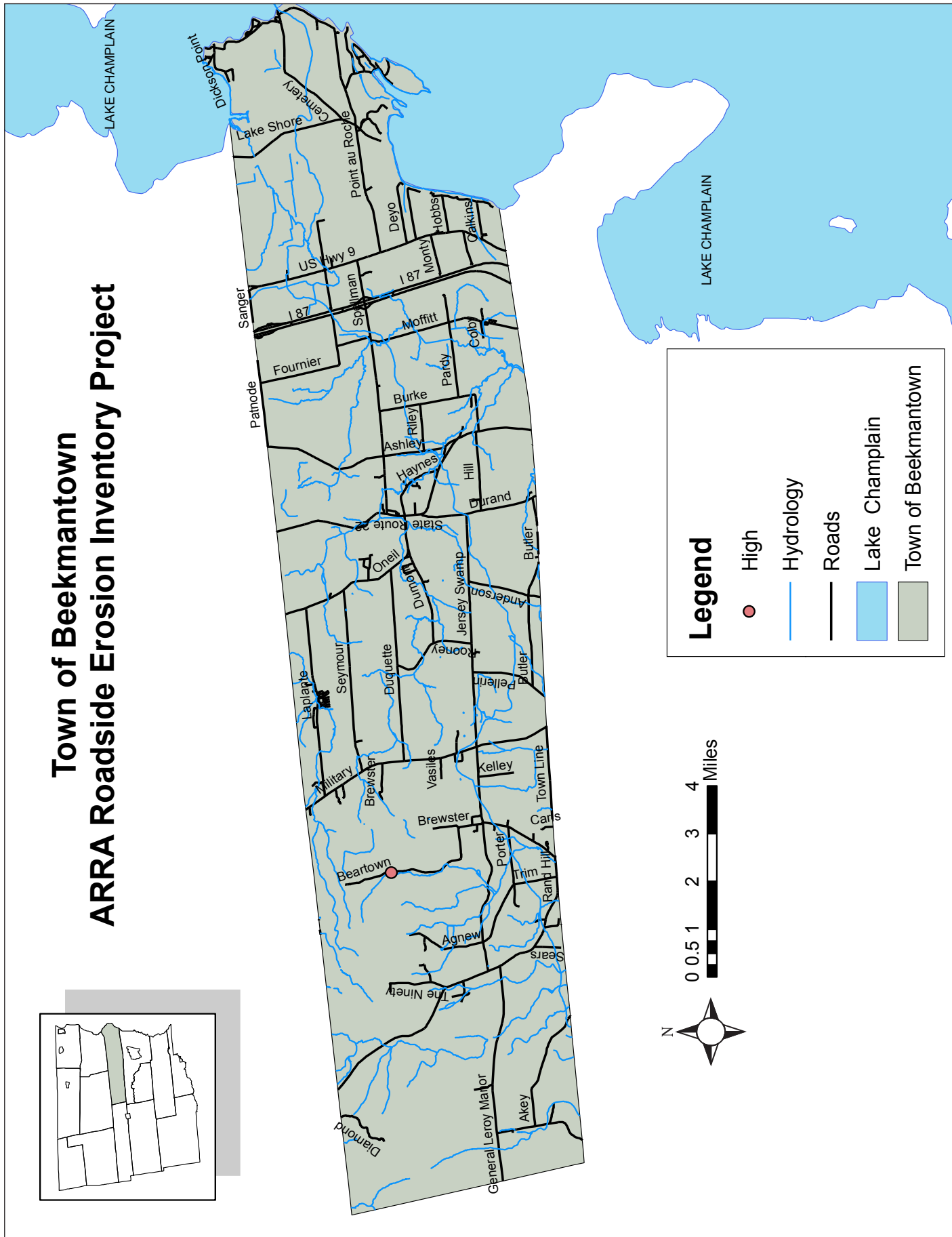
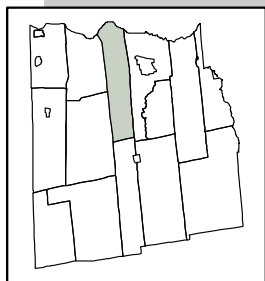
Legend

-  High
-  Hydrology
-  Roads
-  Lake Champlain
-  Town of Ausable



LAKE CHAMPLAIN

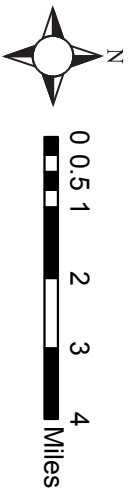
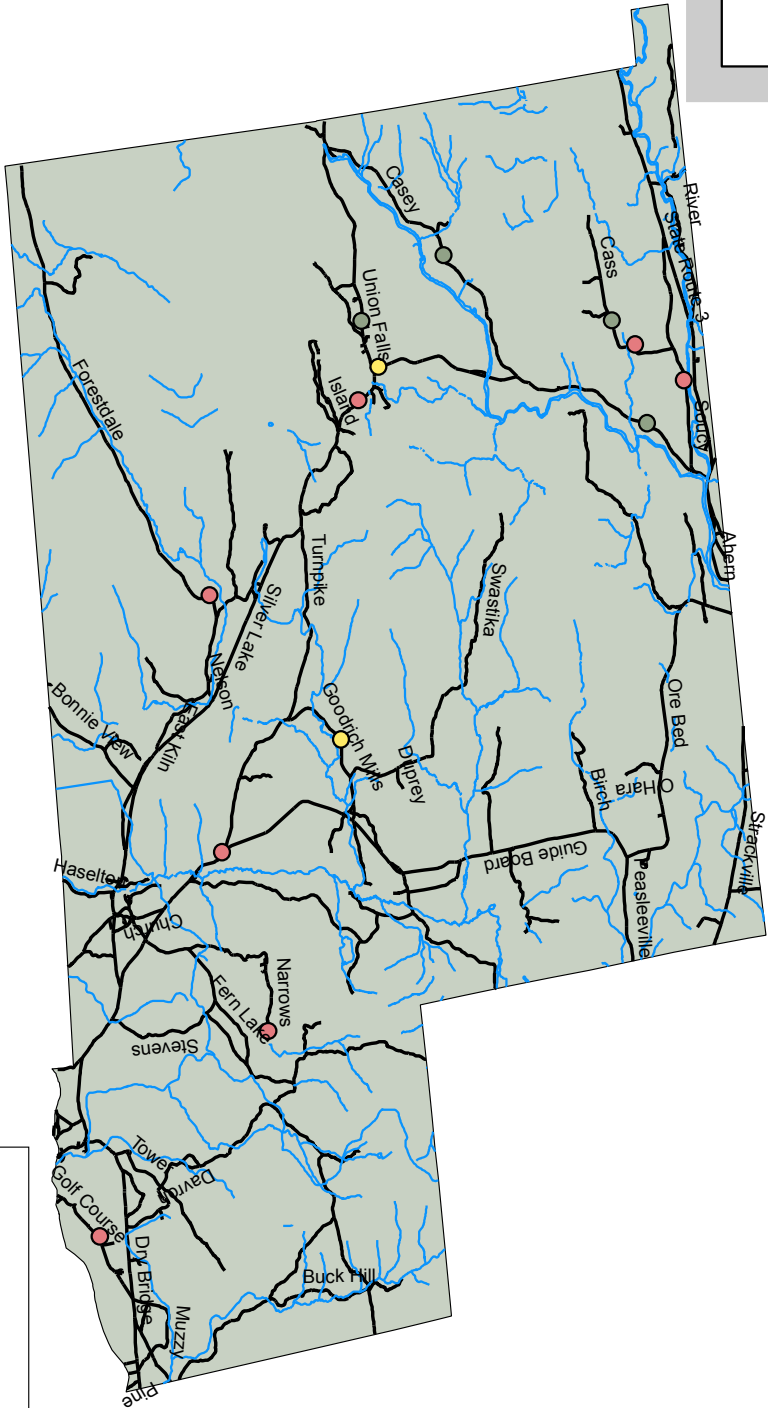
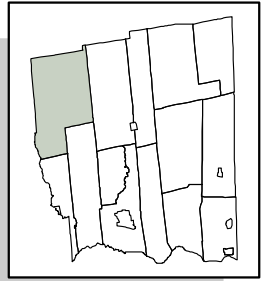
Town of Beekmantown ARRA Roadside Erosion Inventory Project



Legend

- High (Red dot)
- Hydrology (Blue line)
- Roads (Black line)
- Lake Champlain (Light blue area)
- Town of Beekmantown (Light green area)

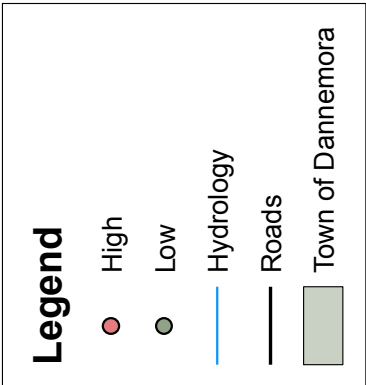
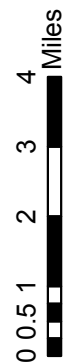
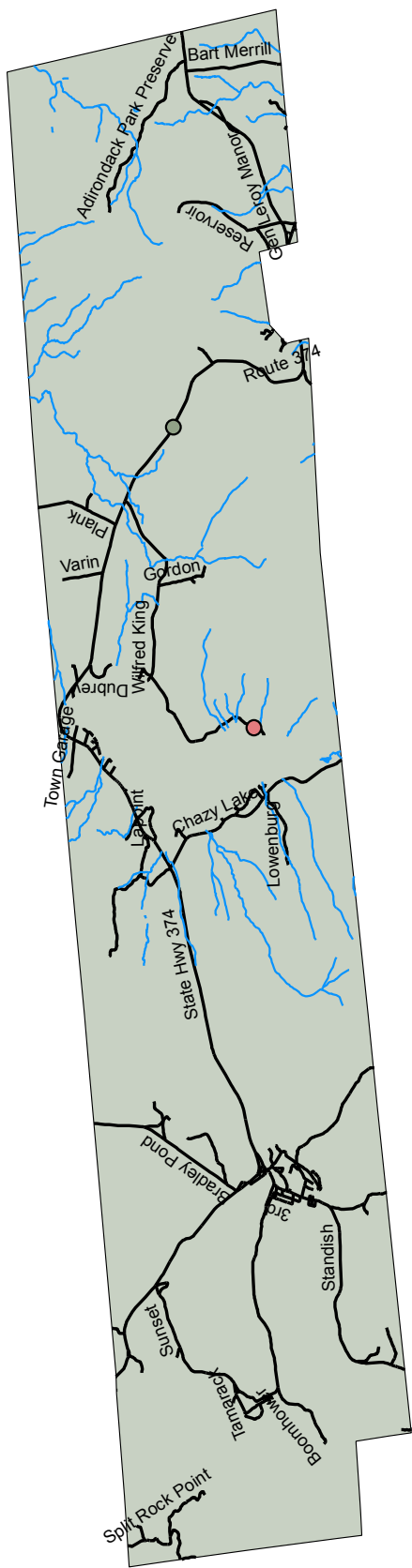
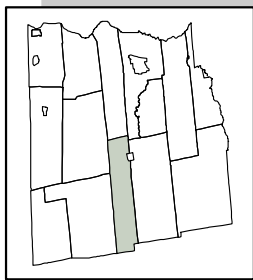
Town of Black Brook ARRA Roadside Erosion Inventory Project

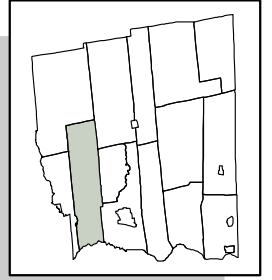


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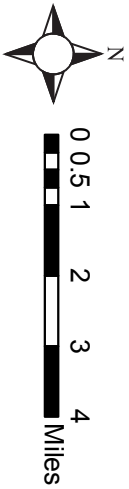
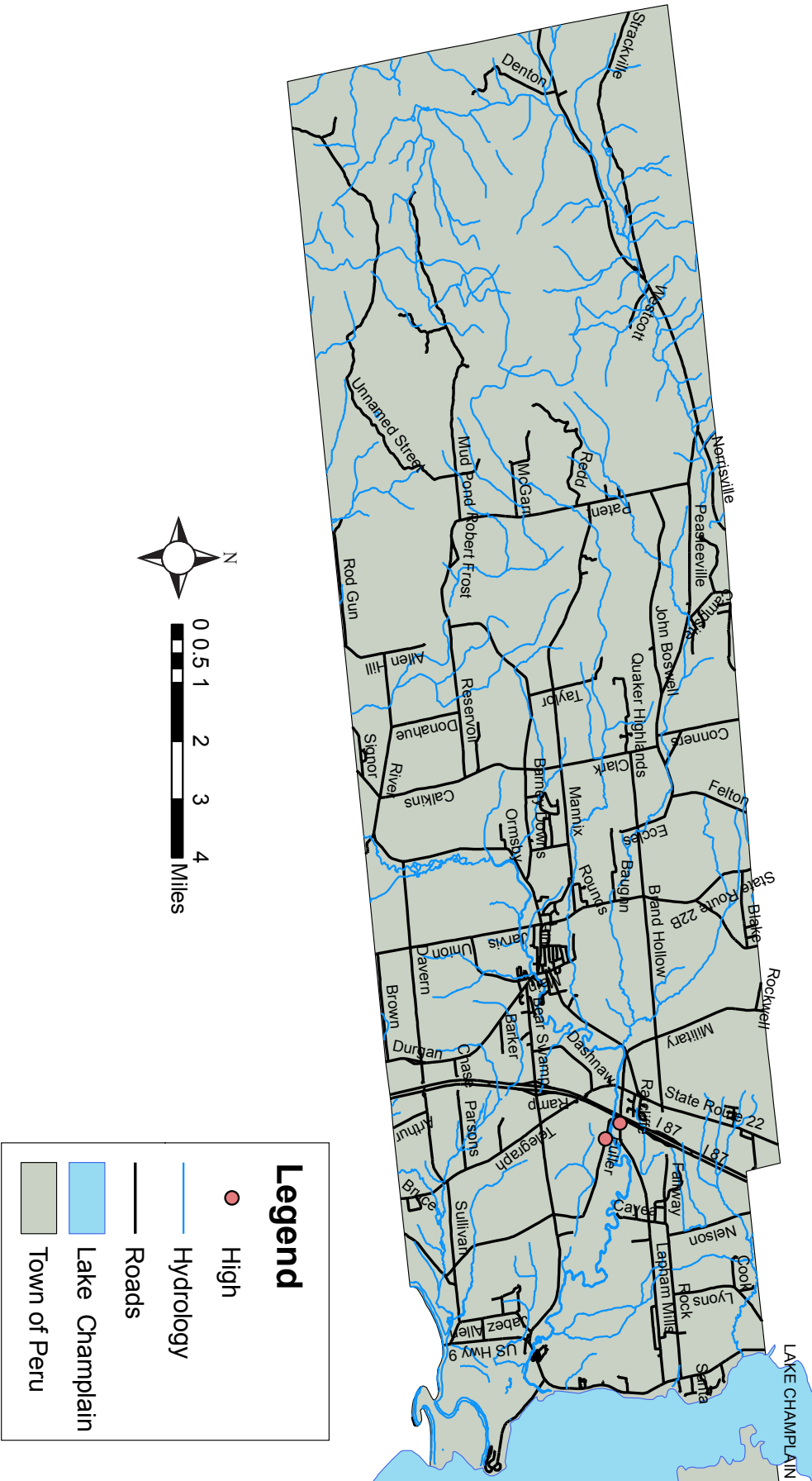
- High
- Moderate
- Low
- Hydrology
- Roads
- Town of Black Brook

Town of Dannemora ARRA Roadside Erosion Inventory Project

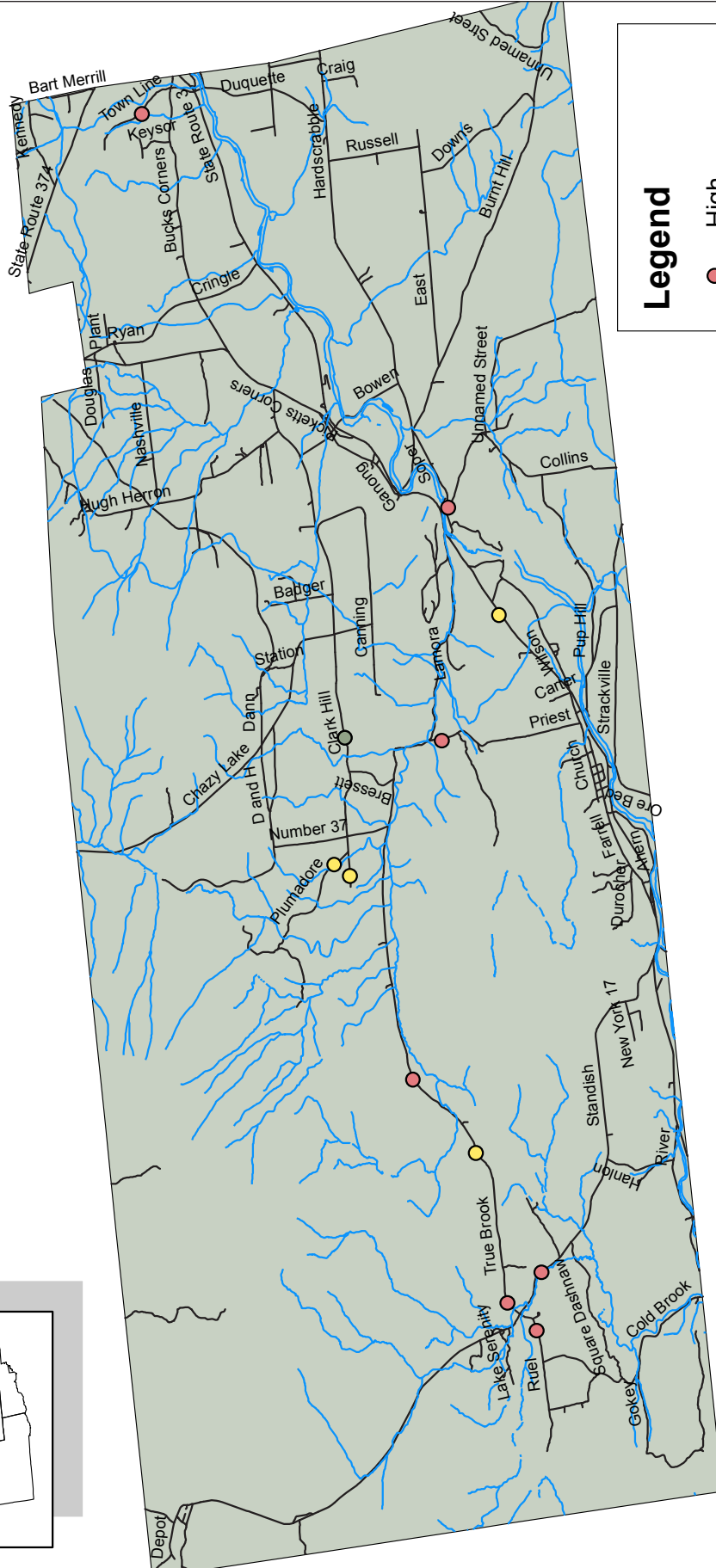
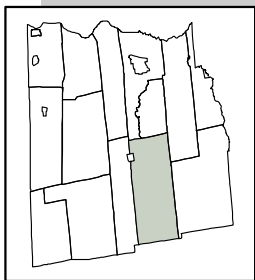




Town of Peru ARRA Roadside Erosion Inventory Project

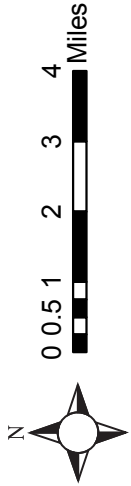


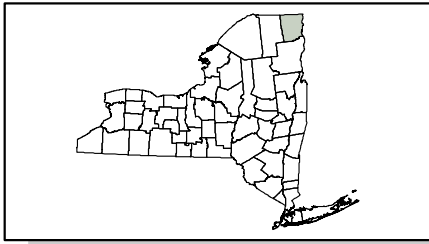
Town of Saranac ARRA Roadside Erosion Inventory Project



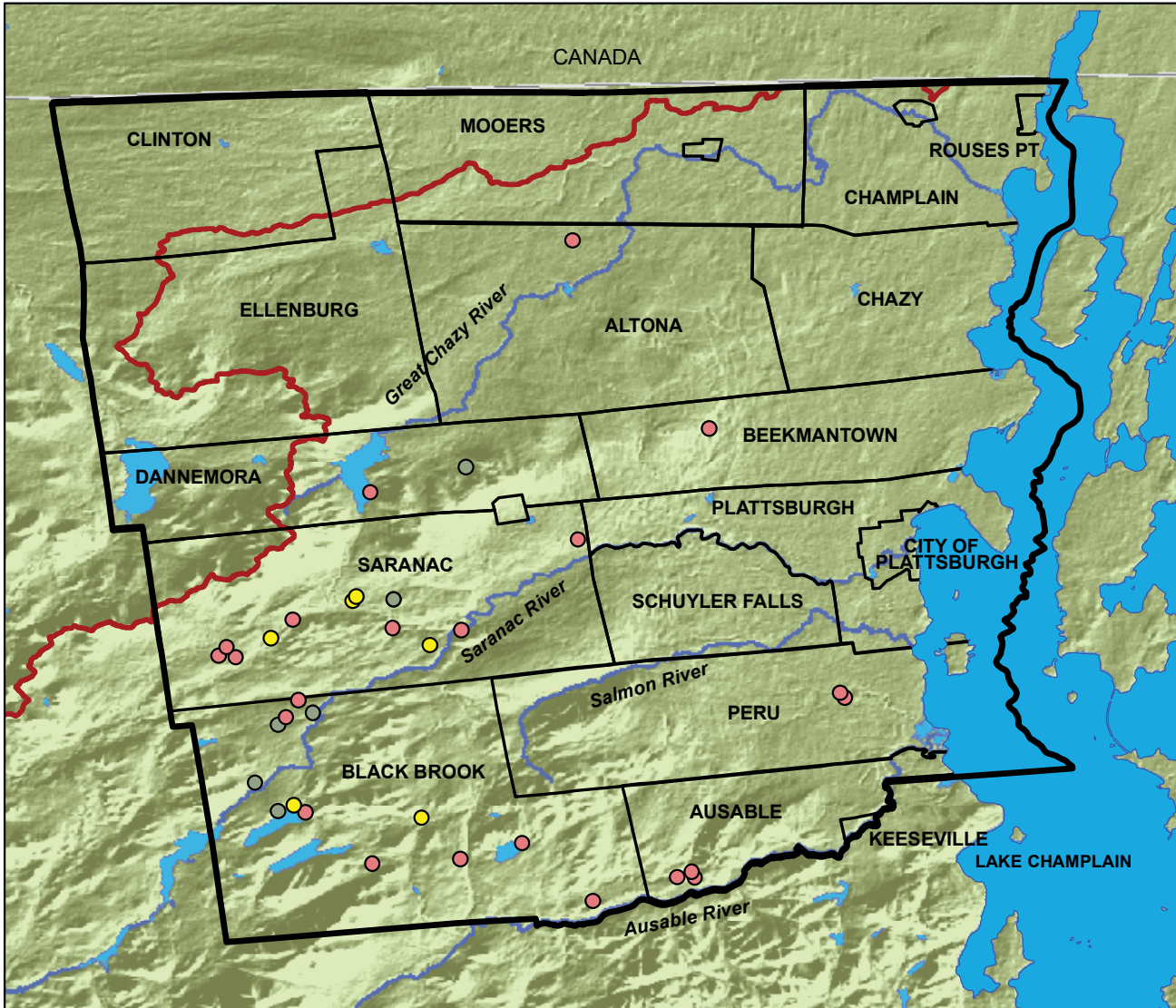
Legend

- High
- Moderate
- Low
- Hydrology
- Roads
- ▭ Town of Saranac





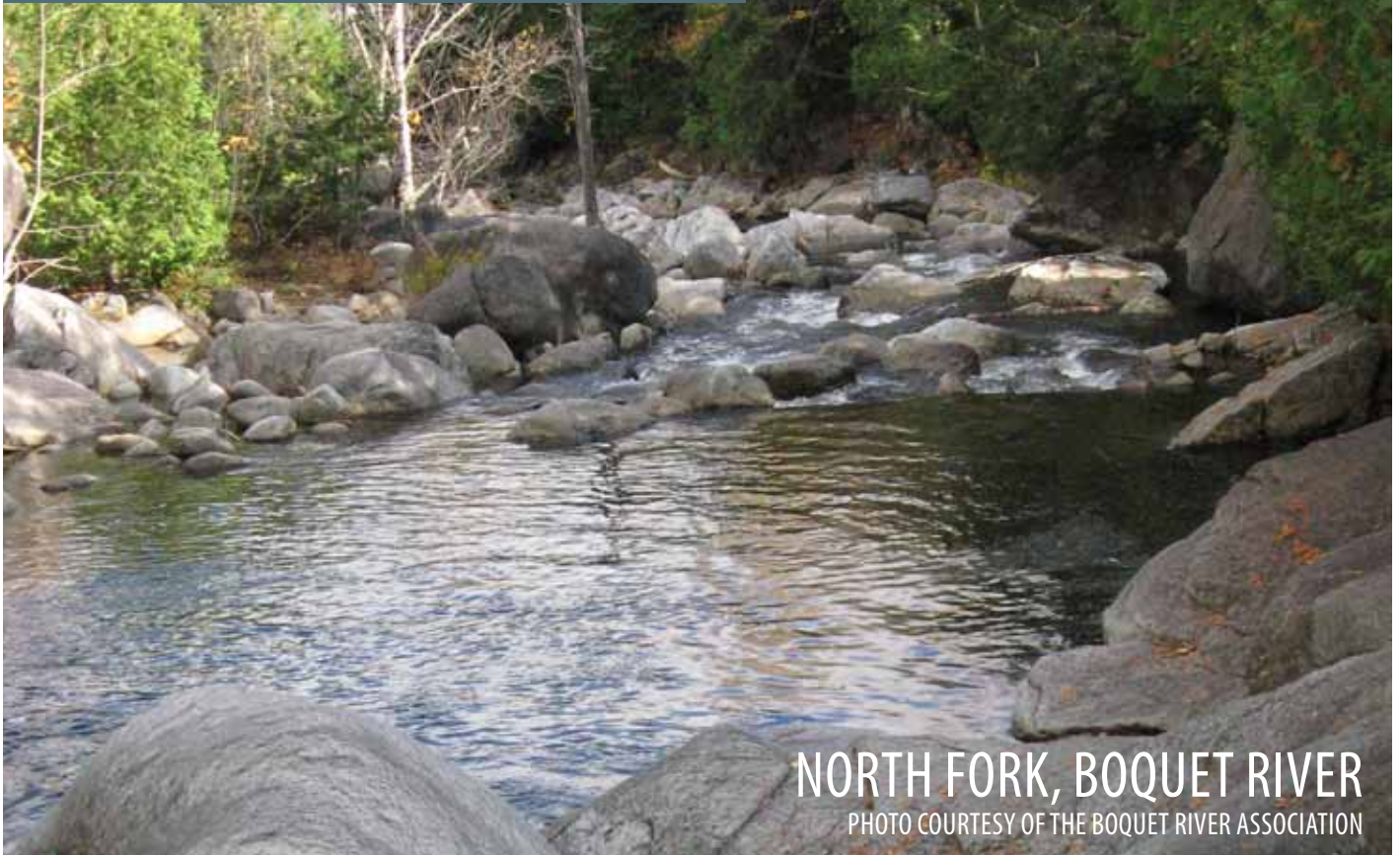
**American Recovery and Reinvestment Act
Roadside Erosion Inventory Project
Clinton County, New York**



Legend

| | |
|----------------------------|--------------------------|
| Site Ranking High | Clinton County |
| Moderate | Clinton County Towns |
| Low | Lake Champlain Watershed |
| Elevation in meters | Major Rivers |
| Value | Lake/Pond |
| High : 255 | |
| Low : 0 | |

ESSEX COUNTY



NORTH FORK, BOQUET RIVER
PHOTO COURTESY OF THE BOQUET RIVER ASSOCIATION

Essex County contains the largest amount of land within the Champlain Watershed of all the counties. Over 70% of the county is within the watershed, encompassing 14 of the 18 towns and all four villages. By definition there are no large metropolitan areas within Essex County, but the Village of Lake Placid, within the Town of North Elba, is a successful tourist area with fluxes of visitors in both the summer and winter. The county has an extensive network of rural roads and county routes that connect the towns, which are heavily traveled by tourists in all seasons.

The soils in Essex County consist mainly of variations of loam and clay, typical sediments found around Lake Champlain and throughout the watershed. However, there are also areas where the soils are highly erodible sands. There are three major river basins; Ausable River (frequently referred to in three sections, Main Branch, East Branch and West Branch), Boquet River and Saranac River, all of which drain directly into Lake Champlain. The Ausable and Boquet River basins encompass the majority of the county, and both have extremely steep slopes descending from their headwaters in the High Peaks of the Adirondacks. The West Branch of the Ausable River has some of the most important fisheries in the state, making these areas critical for roadside protection. There are also a considerable amount of streams on the eastern border of the county that drain directly to

Lake Champlain, and those identified in this report include; Bartlett Brook, Grove Brook, Hoisington Brook, Knob Creek, Little Trout Brook, McKenzie Brook, Mill Brook, Putnam Creek, Sherman Lake and Stacy Brook.

In total, 131 roadside erosion sites (50 High Priority, 39 Moderate Priority and 42 Low Priority) were identified on state, county and town roads by staff of the Essex County SWCD throughout two field seasons. Many of the original findings from the 2010 field season were re-assessed in the summer and fall of 2011, after the destruction that tropical storms Irene and Lee caused throughout the Champlain Watershed. This was done to produce the most up-to-date findings of roadside erosion throughout the county and project more accurate cost estimates for remediation. The most common recommendations for remediation in Essex County include hydroseeding, installing new drainage systems, stabilizing roads with stone and installing sediment traps and basins. Many of the sites can be remediated using the Essex County SWCD Hydroseeding Program at little or no cost to the Towns. Several sites within the Towns of Moriah and Westport are in need of culvert replacements and road restructuring, damage caused by the recent storms, which carry price tags of \$60,000 to \$500,000 each. In all, the projected cost to remediate the 131 sites in Essex County is \$1,443,650.

ESSEX COUNTY SITES

TOWN | MAJOR SUBWATERSHEDS | ROADS

| Town | Number of Sites per Priority | | | Percentage of sites in County |
|---------------|------------------------------|----------|-----|-------------------------------|
| | High | Moderate | Low | |
| Chesterfield | 3 | 3 | 2 | 6% |
| Crown Point | 1 | 4 | 4 | 7% |
| Elizabethtown | 2 | 4 | 4 | 8% |
| Essex | 4 | 2 | 0 | 5% |
| Jay | 3 | 1 | 8 | 9% |
| Keene | 3 | 6 | 4 | 10% |
| Lewis | 1 | 0 | 2 | 2% |
| Moriah | 8 | 2 | 1 | 8% |
| North Elba | 6 | 3 | 4 | 10% |
| St. Armand | 3 | 4 | 0 | 5% |
| Ticonderoga | 0 | 1 | 3 | 3% |
| Westport | 12 | 7 | 5 | 18% |
| Willsboro | 1 | 0 | 1 | 2% |
| Wilmington | 3 | 2 | 4 | 7% |

| Major Subwatershed | Number of Sites per Priority | | | Percentage of sites in County |
|------------------------------|------------------------------|----------|-----|-------------------------------|
| | High | Moderate | Low | |
| Ausable River (All Branches) | 16 | 16 | 20 | 40% |
| Boquet River | 9 | 7 | 9 | 19% |
| Lake Champlain | 22 | 14 | 13 | 37% |
| Saranac River | 3 | 2 | 0 | 4% |

| Road Jurisdiction | Number of Sites per Priority | | | Percentage of sites in County |
|-------------------|------------------------------|----------|-----|-------------------------------|
| | High | Moderate | Low | |
| State Roads | 2 | 1 | 1 | 3% |
| County Roads | 13 | 12 | 11 | 27% |
| Town Roads | 35 | 26 | 30 | 70% |
| Private Roads | 0 | 0 | 0 | 0% |

IDENTIFICATION #100

| | |
|----------------------|--------------------|
| Town Chesterfield | |
| Road Name | Highlands Road |
| Jurisdiction | County |
| Watershed | Little Trout Brook |



| | |
|--|---------------------|
| Direct connection to water | Yes |
| % of Vegetation | 10 |
| Bank Slope | Moderate |
| Level of Erosion | Moderate |
| Length of Erosion (ft) | 50 |
| Width of Erosion (ft) | 6 |
| Total Area of Erosion (ft ²) | 300 |
| Soil Type | Gravelly loamy sand |
| Management Recommendations | Hydroseed |
| Cost | \$300 - \$400 |
| Total Points | 40 |
| Rank | High |

IDENTIFICATION #103

| | |
|----------------------|-------------------------------|
| Town Chesterfield | |
| Road Name | Trout Pond Road |
| Jurisdiction | Town |
| Watershed | Boquet River: North Branch |



| | |
|--|---------------------|
| Direct connection to water | Yes |
| % of Vegetation | 5 |
| Bank Slope | Steep |
| Level of Erosion | Moderate |
| Length of Erosion (ft) | 10 |
| Width of Erosion (ft) | 5 |
| Total Area of Erosion (ft ²) | 50 |
| Soil Type | Gravelly loamy sand |
| Management Recommendations | Hydroseed |
| Cost | \$500 |
| Total Points | 45 |
| Rank | High |

IDENTIFICATION #104

| | |
|----------------------|---------------|
| Town Chesterfield | |
| Road Name | Doghill Road |
| Jurisdiction | Town |
| Watershed | Ausable River |



| | |
|--|-----------------------------|
| Direct connection to water | No |
| % of Vegetation | 10 |
| Bank Slope | Moderate |
| Level of Erosion | Moderate |
| Length of Erosion (ft) | 500 |
| Width of Erosion (ft) | 5 |
| Total Area of Erosion (ft ²) | 2500 |
| Soil Type | Fine sandy loam |
| Management Recommendations | Hydroseed on bank and ditch |
| Cost | \$500 |
| Total Points | 40 |
| Rank | High |

IDENTIFICATION #98

| | |
|----------------------|-----------------|
| Town Chesterfield | |
| Road Name | Augar Lake Road |
| Jurisdiction | County |
| Watershed | Ausable River |



| | |
|--|-----------------|
| Direct connection to water | Yes |
| % of Vegetation | 25 |
| Bank Slope | Moderate |
| Level of Erosion | Low |
| Length of Erosion (ft) | 50 |
| Width of Erosion (ft) | 3 |
| Total Area of Erosion (ft ²) | 150 |
| Soil Type | Fine sandy loam |
| Management Recommendations | Hydroseed |
| Cost | \$500 |
| Total Points | 36 |
| Rank | Moderate |

IDENTIFICATION #99

Town
Chesterfield



Road Name Giddings Road

Jurisdiction Town

Watershed Lake Champlain

Direct connection to water Yes

% of Vegetation 5

Bank Slope Moderate

Level of Erosion Low

Length of Erosion (ft) 20

Width of Erosion (ft) 3

Total Area of Erosion (ft²) 60

Soil Type Fluvial deposits

Management Recommendations Hydroseed

Cost \$500

Total Points 36

Rank Moderate

IDENTIFICATION #105

Town
Chesterfield

Road Name Dugway Road

Jurisdiction Town

Watershed Ausable River

Direct connection to water No

% of Vegetation 100

Bank Slope Moderate

Level of Erosion High

Length of Erosion (ft) 600

Width of Erosion (ft) 20

Total Area of Erosion (ft²) 12,000

Soil Type Fine sandy loam

Management Recommendations New drainage system

Cost \$2000

Total Points 31

Rank Moderate

IDENTIFICATION #101

Town
Chesterfield



Road Name Highlands Road

Jurisdiction County

Watershed Little Trout Brook

Direct connection to water Yes

% of Vegetation 75

Bank Slope Low

Level of Erosion Low

Length of Erosion (ft) 30

Width of Erosion (ft) 3

Total Area of Erosion (ft²) 90

Soil Type Pittsfield Loam

Management Recommendations Hydroseed and possible gravel required

Cost \$100

Total Points 22

Rank Low

IDENTIFICATION #102

Town
Chesterfield



Road Name Shunpike Road

Jurisdiction Town

Watershed Lake Champlain

Direct connection to water No

% of Vegetation 10

Bank Slope Low

Level of Erosion Low

Length of Erosion (ft) 40

Width of Erosion (ft) 3

Total Area of Erosion (ft²) 120

Soil Type Pittsfield Loam

Management Recommendations Hydroseed and possibly plant vegetation

Cost \$100

Total Points 22

Rank Low

IDENTIFICATION #69

Town
Crown Point

Road Name Treadway Road
Jurisdiction Town
Watershed Lake Champlain



| | |
|--|------------------------------------|
| Direct connection to water | Yes |
| % of Vegetation | 40 |
| Bank Slope | Steep |
| Level of Erosion | Low |
| Length of Erosion (ft) | 100 |
| Width of Erosion (ft) | 20 |
| Total Area of Erosion (ft ²) | 2000 |
| Soil Type | Loam |
| Management Recommendations | Stabilize with stone and hydroseed |
| Cost | \$1000 |
| Total Points | 46 |
| Rank | High |

IDENTIFICATION #67

Town
Crown Point

Road Name Whitehead Road
Jurisdiction Town
Watershed Lake Champlain



| | |
|--|---|
| Direct connection to water | Yes |
| % of Vegetation | 30 |
| Bank Slope | Moderate |
| Level of Erosion | Moderate |
| Length of Erosion (ft) | 100 |
| Width of Erosion (ft) | 10 |
| Total Area of Erosion (ft ²) | 1000 |
| Soil Type | Fine sandy loam |
| Management Recommendations | Stabilize with gravel/stone and hydroseed |
| Cost | \$1000 - \$2000 |
| Total Points | 35 |
| Rank | Moderate |

IDENTIFICATION #70

Town
Crown Point

Road Name Sand Hill Road
Jurisdiction Town
Watershed Grove Brook



| | |
|--|------------------------------------|
| Direct connection to water | Yes |
| % of Vegetation | 30 |
| Bank Slope | Moderate |
| Level of Erosion | Moderate |
| Length of Erosion (ft) | 25 |
| Width of Erosion (ft) | 5 |
| Total Area of Erosion (ft ²) | 125 |
| Soil Type | Gravelly loamy sand |
| Management Recommendations | Stabilize with stone and hydroseed |
| Cost | \$500 - \$700 |
| Total Points | 35 |
| Rank | Moderate |



IDENTIFICATION #71

Town
Crown Point

Road Name Sand Hill Road
Jurisdiction Town
Watershed Grove Brook




| | |
|--|--|
| Direct connection to water | Yes |
| % of Vegetation | 25 |
| Bank Slope | Low |
| Level of Erosion | Moderate |
| Length of Erosion (ft) | 15 |
| Width of Erosion (ft) | 3 |
| Total Area of Erosion (ft ²) | 45 |
| Soil Type | Loam |
| Management Recommendations | Stabilize with gravel/stone and/or hydroseed |
| Cost | \$500 |
| Total Points | 36 |
| Rank | Moderate |

| IDENTIFICATION #73 | | IDENTIFICATION #65 | |
|--|---|--|---|
| Town Crown Point |  | Town Crown Point |  |
| Road Name | White Church Road | Road Name | Croake Road |
| Jurisdiction | County | Jurisdiction | Town |
| Watershed | Putnam Creek | Watershed | Putnam Creek |
| Direct connection to water | Yes | Direct connection to water | No |
| % of Vegetation | 30 | % of Vegetation | 40 |
| Bank Slope | Moderate | Bank Slope | Moderate |
| Level of Erosion | Moderate | Level of Erosion | Low |
| Length of Erosion (ft) | 50 | Length of Erosion (ft) | 30 |
| Width of Erosion (ft) | 5 | Width of Erosion (ft) | 5 |
| Total Area of Erosion (ft ²) | 250 | Total Area of Erosion (ft ²) | 150 |
| Soil Type | Loam | Soil Type | Loam |
| Management Recommendations | Stabilize with stone and hydroseed | Management Recommendations | Stabilize with stone and hydroseed |
| Cost | \$500 - \$1000 | Cost | \$500 |
| Total Points | 35 | Total Points | 21 |
| Rank | Moderate | Rank | Low |
| IDENTIFICATION #66 | | IDENTIFICATION #68 | |
| Town Crown Point |  | Town Crown Point | |
| Road Name | Sherman Lake Road | Road Name | Old Furnace Road |
| Jurisdiction | Town | Jurisdiction | Town |
| Watershed | Sherman Lake | Watershed | Knob Creek |
| Direct connection to water | No | Direct connection to water | No |
| % of Vegetation | 40 | % of Vegetation | 0 |
| Bank Slope | Moderate | Bank Slope | Low |
| Level of Erosion | Low | Level of Erosion | Moderate |
| Length of Erosion (ft) | 30 | Length of Erosion (ft) | 30 |
| Width of Erosion (ft) | 5 | Width of Erosion (ft) | 20 |
| Total Area of Erosion (ft ²) | 150 | Total Area of Erosion (ft ²) | 600 |
| Soil Type | Loamy sand | Soil Type | Loamy sand |
| Management Recommendations | Stabilize washed out areas with stone | Management Recommendations | Hydroseed |
| Cost | \$500 | Cost | \$500 |
| Total Points | 21 | Total Points | 26 |
| Rank | Low | Rank | Low |

TOWNS OF CROWN POINT & ELIZABETHTOWN

IDENTIFICATION #72

| | |
|----------------------------|---|
| Town Crown Point |  |
| Road Name Creek Road | |
| Jurisdiction County | |
| Watershed Putnam Creek | |

| | |
|--|--|
| Direct connection to water | Yes |
| % of Vegetation | 50 |
| Bank Slope | Moderate |
| Level of Erosion | Low |
| Length of Erosion (ft) | 20 |
| Width of Erosion (ft) | 5 |
| Total Area of Erosion (ft ²) | 100 |
| Soil Type | Loamy sand |
| Management Recommendations | Install sediment/water deflector and hydroseed |
| Cost | \$2000 - \$3000 |
| Total Points | 26 |
| Rank | Low |

IDENTIFICATION #44

| | |
|------------------------------|---|
| Town Elizabethtown |  |
| Road Name Lincoln Pond Road | |
| Jurisdiction Town | |
| Watershed Lincoln Pond | |

| | |
|--|------------------------------------|
| Direct connection to water | Yes |
| % of Vegetation | 25 |
| Bank Slope | Steep |
| Level of Erosion | Moderate |
| Length of Erosion (ft) | 600 |
| Width of Erosion (ft) | 15 |
| Total Area of Erosion (ft ²) | 9000 |
| Soil Type | Gravelly loamy sand |
| Management Recommendations | Stabilize with stone and hydroseed |
| Cost | \$3000 - \$5000 |
| Total Points | 50 |
| Rank | High |

IDENTIFICATION #45

| | |
|------------------------------|---|
| Town Elizabethtown |  |
| Road Name Scriver Lane | |
| Jurisdiction Town | |
| Watershed Boquet River | |

| | |
|--|---|
| Direct connection to water | Yes |
| % of Vegetation | 20 |
| Bank Slope | Steep |
| Level of Erosion | Moderate |
| Length of Erosion (ft) | 100 |
| Width of Erosion (ft) | 5 |
| Total Area of Erosion (ft ²) | 500 |
| Soil Type | Gravelly loamy sand |
| Management Recommendations | Stabilize with gravel/stone and hydroseed |
| Cost | \$1000 - \$2000 |
| Total Points | 45 |
| Rank | High |

IDENTIFICATION #40

| | |
|------------------------------|---|
| Town Elizabethtown |  |
| Road Name Lobdell Lane | |
| Jurisdiction Town | |
| Watershed Boquet River | |

| | |
|--|-------------------------------|
| Direct connection to water | No |
| % of Vegetation | 50 |
| Bank Slope | Low |
| Level of Erosion | Moderate |
| Length of Erosion (ft) | 75 |
| Width of Erosion (ft) | 60 |
| Total Area of Erosion (ft ²) | 4500 |
| Soil Type | Gravelly loamy sand |
| Management Recommendations | Remove sediment and hydroseed |
| Cost | \$500 - \$1000 |
| Total Points | 31 |
| Rank | Moderate |

IDENTIFICATION #41

| | |
|------------------------------|---|
| Town Elizabethtown |  |
| Road Name Lobdell Lane | |
| Jurisdiction Town | |
| Watershed Boquet River | |


| | |
|--|------------------|
| Direct connection to water | Yes |
| % of Vegetation | 50 |
| Bank Slope | Moderate |
| Level of Erosion | Moderate |
| Length of Erosion (ft) | 50 |
| Width of Erosion (ft) | 20 |
| Total Area of Erosion (ft ²) | 1000 |
| Soil Type | Fluvial deposits |
| Management Recommendations | Hydroseed |
| Cost | \$500 |
| Total Points | 35 |
| Rank | Moderate |

IDENTIFICATION #46

| | |
|------------------------------|---|
| Town Elizabethtown |  |
| Road Name Scriver Lane | |
| Jurisdiction Town | |
| Watershed Boquet River | |


| | |
|--|--------------------------------------|
| Direct connection to water | Yes |
| % of Vegetation | 20 |
| Bank Slope | Moderate |
| Level of Erosion | Low |
| Length of Erosion (ft) | 100 |
| Width of Erosion (ft) | 5 |
| Total Area of Erosion (ft ²) | 500 |
| Soil Type | Gravelly loamy sand |
| Management Recommendations | Remove excess sediment and hydroseed |
| Cost | \$200 - \$300 |
| Total Points | 36 |
| Rank | Moderate |

IDENTIFICATION #48

| | |
|------------------------------|---|
| Town Elizabethtown |  |
| Road Name Kingdom Dam Lane | |
| Jurisdiction Town | |
| Watershed Lincoln Pond | |

| | |
|--|------------------------------------|
| Direct connection to water | Yes |
| % of Vegetation | 15 |
| Bank Slope | Moderate |
| Level of Erosion | Low |
| Length of Erosion (ft) | 20 |
| Width of Erosion (ft) | 10 |
| Total Area of Erosion (ft ²) | 200 |
| Soil Type | Gravelly loamy sand |
| Management Recommendations | Stabilize with stone and hydroseed |
| Cost | \$1000 - \$3000 |
| Total Points | 36 |
| Rank | Moderate |

IDENTIFICATION #42

| | |
|------------------------------|---|
| Town Elizabethtown |  |
| Road Name Meigsville Road | |
| Jurisdiction Town | |
| Watershed Black River | |

| | |
|--|--|
| Direct connection to water | No |
| % of Vegetation | 30 |
| Bank Slope | Low |
| Level of Erosion | Low |
| Length of Erosion (ft) | 75 |
| Width of Erosion (ft) | 10 |
| Total Area of Erosion (ft ²) | 750 |
| Soil Type | Pittsfield loam |
| Management Recommendations | Remove excess sediment, add gravel and hydroseed |
| Cost | \$500 |
| Total Points | 17 |
| Rank | Low |

IDENTIFICATION #43

Town
Elizabethtown

Road Name Lord Road

Jurisdiction Town

Watershed Boquet River:
The Branch



| | |
|--|------------------------------------|
| Direct connection to water | No |
| % of Vegetation | 30 |
| Bank Slope | Moderate |
| Level of Erosion | Low |
| Length of Erosion (ft) | 20 |
| Width of Erosion (ft) | 10 |
| Total Area of Erosion (ft ²) | 200 |
| Soil Type | Very gravelly, loamy sand |
| Management Recommendations | Stabilize with stone and hydroseed |
| Cost | \$500 |
| Total Points | 21 |
| Rank | Low |

IDENTIFICATION #47

Town
Elizabethtown

Road Name Gilligan Lane

Jurisdiction Town

Watershed Boquet River



| | |
|--|--|
| Direct connection to water | Yes |
| % of Vegetation | 55 |
| Bank Slope | Moderate |
| Level of Erosion | Low |
| Length of Erosion (ft) | 25 |
| Width of Erosion (ft) | 15 |
| Total Area of Erosion (ft ²) | 375 |
| Soil Type | Very gravelly, loamy sand |
| Management Recommendations | Clean sediment build up in ditch and hydroseed |
| Cost | \$500 |
| Total Points | 26 |
| Rank | Low |

IDENTIFICATION #49

Town
Elizabethtown

Road Name Kingdom Dam Lane

Jurisdiction Town

Watershed Lincoln Pond



| | |
|--|---------------------|
| Direct connection to water | No |
| % of Vegetation | 30 |
| Bank Slope | Moderate |
| Level of Erosion | Low |
| Length of Erosion (ft) | 100 |
| Width of Erosion (ft) | 15 |
| Total Area of Erosion (ft ²) | 1500 |
| Soil Type | Gravelly loamy sand |
| Management Recommendations | Hydroseed |
| Cost | \$1000 |
| Total Points | 26 |
| Rank | Low |

IDENTIFICATION #59

Town
Essex

Road Name Albee Road

Jurisdiction Town

Watershed Lake Champlain




| | |
|--|------------------------------------|
| Direct connection to water | Yes |
| % of Vegetation | 10 |
| Bank Slope | Steep |
| Level of Erosion | Moderate |
| Length of Erosion (ft) | 20 |
| Width of Erosion (ft) | 5 |
| Total Area of Erosion (ft ²) | 100 |
| Soil Type | Silty clay loam |
| Management Recommendations | Stabilize with stone and hydroseed |
| Cost | \$500 |
| Total Points | 45 |
| Rank | High |

IDENTIFICATION #60

| | |
|---------------|---|
| Town Essex |  |
| Road Name | Lake Shore Road |
| Jurisdiction | County |
| Watershed | Lake Champlain |


| | |
|--|-------------------|
| Direct connection to water | Yes |
| % of Vegetation | 25 |
| Bank Slope | Steep |
| Level of Erosion | High |
| Length of Erosion (ft) | 300 |
| Width of Erosion (ft) | 20 |
| Total Area of Erosion (ft ²) | 6000 |
| Soil Type | Fine sandy loam |
| Management Recommendations | Re-stabilize road |
| Cost | \$100,000 |
| Total Points | 60 |
| Rank | High |

IDENTIFICATION #61

| | |
|---------------|---|
| Town Essex |  |
| Road Name | Main Road |
| Jurisdiction | Town |
| Watershed | Lake Champlain |


| | |
|--|------------------------|
| Direct connection to water | Yes |
| % of Vegetation | 25 |
| Bank Slope | Steep |
| Level of Erosion | Moderate |
| Length of Erosion (ft) | 1000 |
| Width of Erosion (ft) | 20 |
| Total Area of Erosion (ft ²) | 20,000 |
| Soil Type | Rocks and boulders |
| Management Recommendations | Install sediment basin |
| Cost | \$50,000 |
| Total Points | 55 |
| Rank | High |

IDENTIFICATION #62

| | |
|---------------|---|
| Town Essex |  |
| Road Name | Cook Road |
| Jurisdiction | Town |
| Watershed | Boquet River |


| | |
|--|-----------------------------|
| Direct connection to water | Yes |
| % of Vegetation | 5 |
| Bank Slope | Steep |
| Level of Erosion | Moderate |
| Length of Erosion (ft) | 30 |
| Width of Erosion (ft) | 3 |
| Total Area of Erosion (ft ²) | 90 |
| Soil Type | Fluvial deposits |
| Management Recommendations | Clean culvert and hydroseed |
| Cost | \$300 - \$500 |
| Total Points | 45 |
| Rank | High |

IDENTIFICATION #63


| | |
|---------------|---|
| Town Essex |  |
| Road Name | Cook Road |
| Jurisdiction | Town |
| Watershed | Boquet River |

| | |
|--|---------------------------|
| Direct connection to water | Yes |
| % of Vegetation | 25 |
| Bank Slope | Low |
| Level of Erosion | Moderate |
| Length of Erosion (ft) | 30 |
| Width of Erosion (ft) | 3 |
| Total Area of Erosion (ft ²) | 90 |
| Soil Type | Fine sandy loam |
| Management Recommendations | Clean ditch and hydroseed |
| Cost | \$300 - \$500 |
| Total Points | 36 |
| Rank | Moderate |

IDENTIFICATION #64

| | |
|------------------------|---|
| Town Essex |  |
| Road Name Leaning Road | |
| Jurisdiction Town | |
| Watershed Boquet River | |


IDENTIFICATION #112

| | |
|---|---|
| Town Jay |  |
| Road Name Lincoln Hill Road | |
| Jurisdiction Town | |
| Watershed Ausable River: East Branch | |


| | |
|--|-----------------------------------|
| Direct connection to water | Yes |
| % of Vegetation | 25 |
| Bank Slope | Low |
| Level of Erosion | Moderate |
| Length of Erosion (ft) | 15 |
| Width of Erosion (ft) | 12 |
| Total Area of Erosion (ft ²) | 180 |
| Soil Type | Silty clay loam |
| Management Recommendations | Clean ditch/culvert and hydroseed |
| Cost | \$1000 |
| Total Points | 36 |
| Rank | Moderate |

| | |
|--|-----------------|
| Direct connection to water | Yes |
| % of Vegetation | 5 |
| Bank Slope | Moderate |
| Level of Erosion | Moderate |
| Length of Erosion (ft) | 100 |
| Width of Erosion (ft) | 3 |
| Total Area of Erosion (ft ²) | 300 |
| Soil Type | Fine loamy sand |
| Management Recommendations | Hydroseed |
| Cost | \$3000 - \$4000 |
| Total Points | 40 |
| Rank | High |

IDENTIFICATION #116













| | |
|---|---|
| Town Jay |  |
| Road Name Anthony Road | |
| Jurisdiction County | |
| Watershed Ausable River: East Branch | |

IDENTIFICATION #117

| | |
|---|---|
| Town Jay |  |
| Road Name Styles Brook Road | |
| Jurisdiction County | |
| Watershed Ausable River: East Branch | |

| | |
|--|---|
| Direct connection to water | Yes |
| % of Vegetation | 30 |
| Bank Slope | Moderate |
| Level of Erosion | Moderate |
| Length of Erosion (ft) | 500 |
| Width of Erosion (ft) | 5 |
| Total Area of Erosion (ft ²) | 2500 |
| Soil Type | Boulders |
| Management Recommendations | Stabilize with stone/gravel and hydroseed |
| Cost | \$3000 - \$5000 |
| Total Points | 45 |
| Rank | High |

| | |
|--|--|
| Direct connection to water | Yes |
| % of Vegetation | 75 |
| Bank Slope | Moderate |
| Level of Erosion | Moderate |
| Length of Erosion (ft) | 1000 |
| Width of Erosion (ft) | 3 |
| Total Area of Erosion (ft ²) | 3000 |
| Soil Type | Gravelly loamy sand |
| Management Recommendations | Install sediment basin at bridge and hydroseed |
| Cost | \$3000 - \$5000 |
| Total Points | 40 |
| Rank | High |


| IDENTIFICATION #110 | | IDENTIFICATION #106 | | | | | | | | | | | | | | | | | |
|--|---|---|---|--|-------------------|--|--------------------------------------|--|--|--|----------|---|------------------------|--|-------------------|--|--------------------------------------|--|--|
| <table border="1"> <tr> <td>Town Jay</td> <td></td> </tr> <tr> <td>Road Name Jay Connector Road</td> <td></td> </tr> <tr> <td>Jurisdiction Town</td> <td></td> </tr> <tr> <td>Watershed Ausable River</td> <td></td> </tr> </table> | Town Jay |  | Road Name Jay Connector Road | | Jurisdiction Town | | Watershed Ausable River | | | <table border="1"> <tr> <td>Town Jay</td> <td></td> </tr> <tr> <td>Road Name Glen Road</td> <td></td> </tr> <tr> <td>Jurisdiction Town</td> <td></td> </tr> <tr> <td>Watershed Ausable River: East Branch</td> <td></td> </tr> </table> | Town Jay |  | Road Name Glen Road | | Jurisdiction Town | | Watershed Ausable River: East Branch | | |
| Town Jay |  | | | | | | | | | | | | | | | | | | |
| Road Name Jay Connector Road | | | | | | | | | | | | | | | | | | | |
| Jurisdiction Town | | | | | | | | | | | | | | | | | | | |
| Watershed Ausable River | | | | | | | | | | | | | | | | | | | |
| Town Jay |  | | | | | | | | | | | | | | | | | | |
| Road Name Glen Road | | | | | | | | | | | | | | | | | | | |
| Jurisdiction Town | | | | | | | | | | | | | | | | | | | |
| Watershed Ausable River: East Branch | | | | | | | | | | | | | | | | | | | |
| Direct connection to water | Yes | Direct connection to water | No | | | | | | | | | | | | | | | | |
| % of Vegetation | 25 | % of Vegetation | 0 | | | | | | | | | | | | | | | | |
| Bank Slope | Low | Bank Slope | Low | | | | | | | | | | | | | | | | |
| Level of Erosion | Moderate | Level of Erosion | Low | | | | | | | | | | | | | | | | |
| Length of Erosion (ft) | 25 | Length of Erosion (ft) | 100 | | | | | | | | | | | | | | | | |
| Width of Erosion (ft) | 5 | Width of Erosion (ft) | 6 | | | | | | | | | | | | | | | | |
| Total Area of Erosion (ft ²) | 125 | Total Area of Erosion (ft ²) | 600 | | | | | | | | | | | | | | | | |
| Soil Type | Fine loamy sand | Soil Type | Loamy sand | | | | | | | | | | | | | | | | |
| Management Recommendations | Clean ditch, fill hole with stone and hydroseed | Management Recommendations | Hydroseed | | | | | | | | | | | | | | | | |
| Cost | \$500 | Cost | \$500 | | | | | | | | | | | | | | | | |
| Total Points | 36 | Total Points | 22 | | | | | | | | | | | | | | | | |
| Rank | Moderate | Rank | Low | | | | | | | | | | | | | | | | |
| IDENTIFICATION #107 | | IDENTIFICATION #108 | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr> <td>Town Jay</td> <td></td> </tr> <tr> <td>Road Name Glen Road</td> <td></td> </tr> <tr> <td>Jurisdiction Town</td> <td></td> </tr> <tr> <td>Watershed Ausable River: East Branch</td> <td></td> </tr> </table> | Town Jay |  | Road Name Glen Road | | Jurisdiction Town | | Watershed Ausable River: East Branch | | | <table border="1"> <tr> <td>Town Jay</td> <td></td> </tr> <tr> <td>Road Name Cross Street</td> <td></td> </tr> <tr> <td>Jurisdiction Town</td> <td></td> </tr> <tr> <td>Watershed Ausable River</td> <td></td> </tr> </table> | Town Jay |  | Road Name Cross Street | | Jurisdiction Town | | Watershed Ausable River | | |
| Town Jay |  | | | | | | | | | | | | | | | | | | |
| Road Name Glen Road | | | | | | | | | | | | | | | | | | | |
| Jurisdiction Town | | | | | | | | | | | | | | | | | | | |
| Watershed Ausable River: East Branch | | | | | | | | | | | | | | | | | | | |
| Town Jay |  | | | | | | | | | | | | | | | | | | |
| Road Name Cross Street | | | | | | | | | | | | | | | | | | | |
| Jurisdiction Town | | | | | | | | | | | | | | | | | | | |
| Watershed Ausable River | | | | | | | | | | | | | | | | | | | |
| Direct connection to water | No | Direct connection to water | No | | | | | | | | | | | | | | | | |
| % of Vegetation | 50 | % of Vegetation | 30 | | | | | | | | | | | | | | | | |
| Bank Slope | Low | Bank Slope | Low | | | | | | | | | | | | | | | | |
| Level of Erosion | Moderate | Level of Erosion | Low | | | | | | | | | | | | | | | | |
| Length of Erosion (ft) | 100 | Length of Erosion (ft) | 60 | | | | | | | | | | | | | | | | |
| Width of Erosion (ft) | 6 | Width of Erosion (ft) | 3 | | | | | | | | | | | | | | | | |
| Total Area of Erosion (ft ²) | 600 | Total Area of Erosion (ft ²) | 180 | | | | | | | | | | | | | | | | |
| Soil Type | Very bouldery | Soil Type | Loam | | | | | | | | | | | | | | | | |
| Management Recommendations | Hydroseed | Management Recommendations | Stabilize with gravel/stone and hydroseed | | | | | | | | | | | | | | | | |
| Cost | \$500 | Cost | \$500 | | | | | | | | | | | | | | | | |
| Total Points | 21 | Total Points | 17 | | | | | | | | | | | | | | | | |
| Rank | Low | Rank | Low | | | | | | | | | | | | | | | | |

IDENTIFICATION #109

| | |
|-------------------------|---|
| Town Jay |  |
| Road Name Alder Street | |
| Jurisdiction Town | |
| Watershed Ausable River | |


| | |
|--|------------------------------------|
| Direct connection to water | No |
| % of Vegetation | 5 |
| Bank Slope | Moderate |
| Level of Erosion | Moderate |
| Length of Erosion (ft) | 100 |
| Width of Erosion (ft) | 4 |
| Total Area of Erosion (ft ²) | 400 |
| Soil Type | Gravelly loamy sand |
| Management Recommendations | Repave holes in road and hydroseed |
| Cost | \$500 |
| Total Points | 30 |
| Rank | Low |

IDENTIFICATION #111

| | |
|-------------------------|---|
| Town Jay |  |
| Road Name Grove Road | |
| Jurisdiction Town | |
| Watershed Ausable River | |

| | |
|--|-----------------------------------|
| Direct connection to water | No |
| % of Vegetation | 5 |
| Bank Slope | Low |
| Level of Erosion | Moderate |
| Length of Erosion (ft) | 40 |
| Width of Erosion (ft) | 3 |
| Total Area of Erosion (ft ²) | 120 |
| Soil Type | Fine loamy sand |
| Management Recommendations | Repave edge of road and hydroseed |
| Cost | \$300 |
| Total Points | 26 |
| Rank | Low |

IDENTIFICATION #113

| | |
|---|---|
| Town Jay |  |
| Road Name Valley Road | |
| Jurisdiction County | |
| Watershed Ausable River: East Branch | |

| | |
|--|------------------------------------|
| Direct connection to water | No |
| % of Vegetation | 30 |
| Bank Slope | Low |
| Level of Erosion | Low |
| Length of Erosion (ft) | 20 |
| Width of Erosion (ft) | 2 |
| Total Area of Erosion (ft ²) | 40 |
| Soil Type | Loamy sand |
| Management Recommendations | Stabilize with stone and hydroseed |
| Cost | \$200 |
| Total Points | 17 |
| Rank | Low |

IDENTIFICATION #114

| | |
|---|---|
| Town Jay |  |
| Road Name Glen Road | |
| Jurisdiction County | |
| Watershed Ausable River: East Branch | |

| | |
|--|---------------------------|
| Direct connection to water | Yes |
| % of Vegetation | 30 |
| Bank Slope | Low |
| Level of Erosion | Low |
| Length of Erosion (ft) | 20 |
| Width of Erosion (ft) | 3 |
| Total Area of Erosion (ft ²) | 60 |
| Soil Type | Very gravelly, loamy sand |
| Management Recommendations | Hydroseed |
| Cost | \$300 |
| Total Points | 27 |
| Rank | Low |

| IDENTIFICATION #115 | | IDENTIFICATION #118 | |
|--|---|--|---|
| Town Jay |  | Town Keene |  |
| Road Name | Glen Road | Road Name | Adirondack Street |
| Jurisdiction | County | Jurisdiction | Town |
| Watershed | Ausable River: East Branch | Watershed | Ausable River: East Branch |
| Direct connection to water | Yes | Direct connection to water | Yes |
| % of Vegetation | 50 | % of Vegetation | 0 |
| Bank Slope | Low | Bank Slope | Low |
| Level of Erosion | Low | Level of Erosion | Moderate |
| Length of Erosion (ft) | 50 | Length of Erosion (ft) | 300 |
| Width of Erosion (ft) | 3 | Width of Erosion (ft) | 10 |
| Total Area of Erosion (ft ²) | 150 | Total Area of Erosion (ft ²) | 3000 |
| Soil Type | Very bouldery | Soil Type | Gravelly loamy sand |
| Management Recommendations | Hydroseed | Management Recommendations | Install infiltration basin |
| Cost | \$300 | Cost | \$10,000 - \$15,000 |
| Total Points | 27 | Total Points | 46 |
| Rank | Low | Rank | High |
| IDENTIFICATION #120 | | IDENTIFICATION #130 | |
| Town Keene |  | Town Keene |  |
| Road Name | Adrians Acres Lane | Road Name | Schaffer Road |
| Jurisdiction | Town | Jurisdiction | Town |
| Watershed | Ausable River: East Branch | Watershed | Ausable River: East Branch |
| Direct connection to water | Yes | Direct connection to water | Yes |
| % of Vegetation | 10 | % of Vegetation | 50 |
| Bank Slope | Steep | Bank Slope | Moderate |
| Level of Erosion | Moderate | Level of Erosion | Moderate |
| Length of Erosion (ft) | 50 | Length of Erosion (ft) | 5280 |
| Width of Erosion (ft) | 3 | Width of Erosion (ft) | 2 |
| Total Area of Erosion (ft ²) | 150 | Total Area of Erosion (ft ²) | 10,560 |
| Soil Type | Gravelly loamy sand | Soil Type | Gravelly loamy sand |
| Management Recommendations | Stabilize with stone and hydroseed | Management Recommendations | Hydroseed |
| Cost | \$1000 | Cost | \$1300 |
| Total Points | 45 | Total Points | 40 |
| Rank | High | Rank | High |

IDENTIFICATION #121

| | |
|---------------|---|
| Town Keene |  |
| Road Name | Adrians Acres Lane |
| Jurisdiction | Town |
| Watershed | Ausable River: East Branch |


IDENTIFICATION #122

| | |
|---------------|---|
| Town Keene |  |
| Road Name | Beede Lane |
| Jurisdiction | Town |
| Watershed | Ausable River: East Branch |

| | |
|--|------------------------|
| Direct connection to water | Yes |
| % of Vegetation | 30 |
| Bank Slope | Steep |
| Level of Erosion | Low |
| Length of Erosion (ft) | 20 |
| Width of Erosion (ft) | 3 |
| Total Area of Erosion (ft ²) | 60 |
| Soil Type | Fine sandy loam |
| Management Recommendations | Install sediment basin |
| Cost | \$2000 |
| Total Points | 36 |
| Rank | Moderate |

| | |
|--|--|
| Direct connection to water | Yes |
| % of Vegetation | 30 |
| Bank Slope | Steep |
| Level of Erosion | Low |
| Length of Erosion (ft) | 15 |
| Width of Erosion (ft) | 3 |
| Total Area of Erosion (ft ²) | 45 |
| Soil Type | Fine sandy loam |
| Management Recommendations | Install sediment/water deflector and hydroseed |
| Cost | \$500 |
| Total Points | 36 |
| Rank | Moderate |

IDENTIFICATION #123




| | |
|---------------|---|
| Town Keene |  |
| Road Name | Hurricane Road |
| Jurisdiction | County |
| Watershed | Ausable River: East Branch |

IDENTIFICATION #124

| | |
|---------------|---|
| Town Keene |  |
| Road Name | Hurricane Road |
| Jurisdiction | County |
| Watershed | Ausable River: East Branch |

| | |
|--|---------------------|
| Direct connection to water | Yes |
| % of Vegetation | 10 |
| Bank Slope | Moderate |
| Level of Erosion | Low |
| Length of Erosion (ft) | 25 |
| Width of Erosion (ft) | 6 |
| Total Area of Erosion (ft ²) | 150 |
| Soil Type | Gravelly loamy sand |
| Management Recommendations | Hydroseed |
| Cost | \$500 |
| Total Points | 36 |
| Rank | Moderate |

| | |
|--|-----------------|
| Direct connection to water | Yes |
| % of Vegetation | 50 |
| Bank Slope | Steep |
| Level of Erosion | Low |
| Length of Erosion (ft) | 20 |
| Width of Erosion (ft) | 2 |
| Total Area of Erosion (ft ²) | 40 |
| Soil Type | Fine sandy loam |
| Management Recommendations | Hydroseed |
| Cost | \$200 - \$300 |
| Total Points | 36 |
| Rank | Moderate |

| IDENTIFICATION #125 | | IDENTIFICATION #129 | |
|--|---|--|---|
| Town Keene | | Town Keene |  |
| Road Name | Hurricane Road | Road Name | Hurricane Road |
| Jurisdiction | County | Jurisdiction | County |
| Watershed | Ausable River: East Branch | Watershed | Ausable River: East Branch |
| Direct connection to water | Yes | Direct connection to water | Yes |
| % of Vegetation | 15 | % of Vegetation | 50 |
| Bank Slope | Moderate | Bank Slope | Moderate |
| Level of Erosion | Low | Level of Erosion | Low |
| Length of Erosion (ft) | 20 | Length of Erosion (ft) | 100 |
| Width of Erosion (ft) | 3 | Width of Erosion (ft) | 2 |
| Total Area of Erosion (ft ²) | 60 | Total Area of Erosion (ft ²) | 200 |
| Soil Type | Gravelly loamy sand | Soil Type | Gravelly loamy sand |
| Management Recommendations | Install sediment basin | Management Recommendations | Hydroseed |
| Cost | \$1000 - \$2000 | Cost | \$500 |
| Total Points | 36 | Total Points | 31 |
| Rank | Moderate | Rank | Moderate |
| IDENTIFICATION #119 | | IDENTIFICATION #126 | |
| Town Keene |  | Town Keene |  |
| Road Name | Adrians Acres Lane | Road Name | Lacy Road |
| Jurisdiction | Town | Jurisdiction | Town |
| Watershed | Ausable River: East Branch | Watershed | Ausable River: East Branch |
| Direct connection to water | No | Direct connection to water | No |
| % of Vegetation | 5 | % of Vegetation | 0 |
| Bank Slope | Low | Bank Slope | Low |
| Level of Erosion | Moderate | Level of Erosion | Moderate |
| Length of Erosion (ft) | 100 | Length of Erosion (ft) | 75 |
| Width of Erosion (ft) | 10 | Width of Erosion (ft) | 3 |
| Total Area of Erosion (ft ²) | 1000 | Total Area of Erosion (ft ²) | 225 |
| Soil Type | Very gravelly, loamy sand | Soil Type | Fine sandy loam |
| Management Recommendations | Stabilize with stone and hydroseed | Management Recommendations | Stabilize with stone and hydroseed |
| Cost | \$1000 | Cost | \$500 - \$700 |
| Total Points | 26 | Total Points | 26 |
| Rank | Low | Rank | Low |

IDENTIFICATION #127

Town
Keene

Road Name Glen Road

Jurisdiction Town

Watershed Ausable River:
East Branch

IDENTIFICATION #128

Town
Keene

Road Name Glen Road

Jurisdiction Town

Watershed Styles Brook



Direct connection to water No

% of Vegetation 5

Bank Slope Low

Level of Erosion Low

Length of Erosion (ft) 20

Width of Erosion (ft) 3

Total Area of Erosion (ft²) 60

Soil Type Boulderly loam

Management
Recommendations Hydroseed

Cost \$500

Total Points 22

Rank Low

Direct connection to water No

% of Vegetation 5

Bank Slope Low

Level of Erosion Moderate

Length of Erosion (ft) 25

Width of Erosion (ft) 3

Total Area of Erosion (ft²) 75

Soil Type Boulderly loam

Management
Recommendations Stabilize with stone/gravel
and hydroseed

Cost \$200 - \$300

Total Points 26

Rank Low

IDENTIFICATION #56

Town
Lewis

Road Name Eggleston Lane

Jurisdiction Town

Watershed Boquet River

Town
LewisRoad Name Crowningshield
Road

Jurisdiction Town

Watershed Boquet River:
North Branch

Direct connection to water Yes

% of Vegetation 5

Bank Slope Steep

Level of Erosion High

Length of Erosion (ft) 20

Width of Erosion (ft) 10

Total Area of Erosion (ft²) 200

Soil Type Pittsfield loam

Management
Recommendations Stabilize with stone/gravel
and hydroseed

Cost \$500 - \$1000

Total Points 50

Rank High

Direct connection to water Yes

% of Vegetation 30

Bank Slope Low

Level of Erosion Low

Length of Erosion (ft) 25

Width of Erosion (ft) 2

Total Area of Erosion (ft²) 50

Soil Type Very rocky, very bouldery

Management
Recommendations Repave side of road and
hydroseed

Cost \$500 - \$1000

Total Points 27

Rank Low

| IDENTIFICATION #55 | | IDENTIFICATION #75 | |
|--|---|--|---|
| Town Lewis |  | Town Moriah |  |
| Road Name Eggleston Lane | | Road Name Fisk Road | |
| Jurisdiction Town | | Jurisdiction Town | |
| Watershed Boquet River | | Watershed McKenzie Brook | |
| Direct connection to water | No | Direct connection to water | Yes |
| % of Vegetation | 20 | % of Vegetation | 40 |
| Bank Slope | Moderate | Bank Slope | Steep |
| Level of Erosion | Moderate | Level of Erosion | Moderate |
| Length of Erosion (ft) | 20 | Length of Erosion (ft) | 60 |
| Width of Erosion (ft) | 3 | Width of Erosion (ft) | 25 |
| Total Area of Erosion (ft ²) | 60 | Total Area of Erosion (ft ²) | 1500 |
| Soil Type | Pittsfield loam | Soil Type | Gravelly sandy loam |
| Management Recommendations | Stabilize with stone or gravel | Management Recommendations | Stabilize with gravel and hydroseed |
| Cost | \$300 | Cost | \$4000 - \$5000 |
| Total Points | 30 | Total Points | 40 |
| Rank | Low | Rank | High |
| IDENTIFICATION #76 | | IDENTIFICATION #77 | |
| Town Moriah |  | Town Moriah |  |
| Road Name Mutton Hollow Road | | Road Name Main Road | |
| Jurisdiction Town | | Jurisdiction Town | |
| Watershed McKenzie Brook | | Watershed Lake Champlain | |
| Direct connection to water | Yes | Direct connection to water | Yes |
| % of Vegetation | 25 | % of Vegetation | 5 |
| Bank Slope | Moderate | Bank Slope | Steep |
| Level of Erosion | Moderate | Level of Erosion | High |
| Length of Erosion (ft) | 50 | Length of Erosion (ft) | 50 |
| Width of Erosion (ft) | 15 | Width of Erosion (ft) | 7 |
| Total Area of Erosion (ft ²) | 750 | Total Area of Erosion (ft ²) | 350 |
| Soil Type | Gravelly sandy loam | Soil Type | Gravelly loamy sand |
| Management Recommendations | Hydroseed and possibly repave road | Management Recommendations | Stabilize with stone/gravel and hydroseed |
| Cost | \$1000 | Cost | \$4000 - \$5000 |
| Total Points | 40 | Total Points | 50 |
| Rank | High | Rank | High |

IDENTIFICATION #79

IDENTIFICATION #80

Town Moriah

Town Moriah

Road Name Witherbee Road

Road Name Silver Hill Road

Jurisdiction County

Jurisdiction Town

Watershed McKenzie Brook

Watershed Mill Brook



| | |
|--|--|
| Direct connection to water | Yes |
| % of Vegetation | 0 |
| Bank Slope | Moderate |
| Level of Erosion | Moderate |
| Length of Erosion (ft) | 1000 |
| Width of Erosion (ft) | 15 |
| Total Area of Erosion (ft ²) | 15,000 |
| Soil Type | Gravelly loamy sand |
| Management Recommendations | Needs structural improvement after Spring 2011 flood |
| Cost | \$20,000 |
| Total Points | 50 |
| Rank | High |

| | |
|--|-------------------------------------|
| Direct connection to water | Yes |
| % of Vegetation | 20 |
| Bank Slope | Steep |
| Level of Erosion | High |
| Length of Erosion (ft) | 50 |
| Width of Erosion (ft) | 25 |
| Total Area of Erosion (ft ²) | 1250 |
| Soil Type | Gravelly loamy sand |
| Management Recommendations | Fix pavement and repair box culvert |
| Cost | \$141,000 |
| Total Points | 50 |
| Rank | High |

IDENTIFICATION #81

IDENTIFICATION #82

Town Moriah

Town Moriah

Road Name Plank Road/Rt 7

Road Name Joyce Road

Jurisdiction County

Jurisdiction Town

Watershed McKenzie Brook

Watershed Mill Brook



| | |
|--|------------------------|
| Direct connection to water | Yes |
| % of Vegetation | 0 |
| Bank Slope | Moderate |
| Level of Erosion | Moderate |
| Length of Erosion (ft) | 2000 |
| Width of Erosion (ft) | 5 |
| Total Area of Erosion (ft ²) | 10,000 |
| Soil Type | Loamy sand |
| Management Recommendations | Install sediment basin |
| Cost | \$30,000 |
| Total Points | 50 |
| Rank | High |

| | |
|--|-------------------------------------|
| Direct connection to water | Yes |
| % of Vegetation | 10 |
| Bank Slope | Moderate |
| Level of Erosion | Moderate |
| Length of Erosion (ft) | 500 |
| Width of Erosion (ft) | 10 |
| Total Area of Erosion (ft ²) | 5000 |
| Soil Type | Gravelly loamy sand |
| Management Recommendations | Stabilize with gravel and hydroseed |
| Cost | \$2000 - \$3000 |
| Total Points | 50 |
| Rank | High |

IDENTIFICATION #84

Town Moriah

Road Name Bartlett Pond Road

Jurisdiction Town

Watershed Bartlett Brook



| | |
|--|-------------------------------------|
| Direct connection to water | No |
| % of Vegetation | 5 |
| Bank Slope | Moderate |
| Level of Erosion | Moderate |
| Length of Erosion (ft) | 300 |
| Width of Erosion (ft) | 20 |
| Total Area of Erosion (ft ²) | 6000 |
| Soil Type | Gravelly loamy sand |
| Management Recommendations | Stabilize with gravel and hydroseed |
| Cost | \$3000 - \$5000 |
| Total Points | 40 |
| Rank | High |

IDENTIFICATION #78

Town Moriah

Road Name Mill Brook Road

Jurisdiction Town

Watershed Mill Brook



| | |
|--|-----------------|
| Direct connection to water | Yes |
| % of Vegetation | 0 |
| Bank Slope | Low |
| Level of Erosion | Moderate |
| Length of Erosion (ft) | 60 |
| Width of Erosion (ft) | 5 |
| Total Area of Erosion (ft ²) | 300 |
| Soil Type | Fine sandy loam |
| Management Recommendations | Hydroseed |
| Cost | \$500 - \$700 |
| Total Points | 36 |
| Rank | Moderate |

IDENTIFICATION #83

Town Moriah

Road Name Bartlett Pond Road

Jurisdiction Town

Watershed Bartlett Brook



| | |
|--|---|
| Direct connection to water | Yes |
| % of Vegetation | 5 |
| Bank Slope | Low |
| Level of Erosion | Low |
| Length of Erosion (ft) | 20 |
| Width of Erosion (ft) | 10 |
| Total Area of Erosion (ft ²) | 200 |
| Soil Type | Loamy sand |
| Management Recommendations | Replace stone around culvert outlet and hydroseed |
| Cost | \$500 |
| Total Points | 32 |
| Rank | Moderate |

IDENTIFICATION #74

Town Moriah

Road Name Fairy Lake Road

Jurisdiction Town

Watershed Grove Brook



| | |
|--|------------------------------------|
| Direct connection to water | Yes |
| % of Vegetation | 50 |
| Bank Slope | Low |
| Level of Erosion | Low |
| Length of Erosion (ft) | 50 |
| Width of Erosion (ft) | 5 |
| Total Area of Erosion (ft ²) | 250 |
| Soil Type | Very gravelly, loamy sand |
| Management Recommendations | Stabilize with stone and hydroseed |
| Cost | \$500 |
| Total Points | 27 |
| Rank | Low |

IDENTIFICATION #85

IDENTIFICATION #97

Town
North Elba

Road Name Adk Loj Road

Jurisdiction Town

Watershed Ausable River:
West Branch



Town
North Elba

Road Name Adk Loj Road

Jurisdiction Town

Watershed Ausable River:
West Branch



Direct connection to water Yes

% of Vegetation 10

Bank Slope Steep

Level of Erosion High

Length of Erosion (ft) 50

Width of Erosion (ft) 5

Total Area of Erosion (ft²) 250

Soil Type Fine sandy loam

Management Recommendations Vegetative or structural

Cost \$1000

Total Points 50

Rank High

Direct connection to water Yes

% of Vegetation 10

Bank Slope Low

Level of Erosion High

Length of Erosion (ft) 1500

Width of Erosion (ft) 10

Total Area of Erosion (ft²) 15,000

Soil Type Fine sandy loam

Management Recommendations Hydroseed

Cost \$1800

Total Points 51

Rank High

IDENTIFICATION #89

IDENTIFICATION #91

Town
North Elba

Road Name Old Military Road

Jurisdiction County

Watershed Ausable River:
West Branch



Town
North Elba

Road Name Old Military Road

Jurisdiction County

Watershed Ausable River:
West Branch



Direct connection to water Yes

% of Vegetation 10

Bank Slope Moderate

Level of Erosion Moderate

Length of Erosion (ft) 50

Width of Erosion (ft) 3

Total Area of Erosion (ft²) 150

Soil Type Gravelly loamy sand

Management Recommendations Install sediment/water deflector

Cost \$500

Total Points 40

Rank High

Direct connection to water No

% of Vegetation 5

Bank Slope Moderate

Level of Erosion Moderate

Length of Erosion (ft) 500

Width of Erosion (ft) 7

Total Area of Erosion (ft²) 3500

Soil Type Gravelly loamy sand

Management Recommendations Clean ditch and hydroseed

Cost \$1000

Total Points 40

Rank High

IDENTIFICATION #93

Town
North Elba

Road Name State Highway 73

Jurisdiction State

Watershed Ausable River:
West Branch



| | |
|--|---------------------------|
| Direct connection to water | Yes |
| % of Vegetation | 10 |
| Bank Slope | Moderate |
| Level of Erosion | Moderate |
| Length of Erosion (ft) | 100 |
| Width of Erosion (ft) | 5 |
| Total Area of Erosion (ft ²) | 500 |
| Soil Type | Fine sandy loam |
| Management Recommendations | Clean ditch and hydroseed |
| Cost | \$500 - \$1000 |
| Total Points | 40 |
| Rank | High |

IDENTIFICATION #96

Town
North Elba

Road Name State Highway 73

Jurisdiction State

Watershed Ausable River:
West Branch



| | |
|--|---------------------|
| Direct connection to water | Yes |
| % of Vegetation | 30 |
| Bank Slope | Moderate |
| Level of Erosion | Moderate |
| Length of Erosion (ft) | 2500 |
| Width of Erosion (ft) | 10 |
| Total Area of Erosion (ft ²) | 25,000 |
| Soil Type | Gravelly loamy sand |
| Management Recommendations | Hydroseed |
| Cost | \$3000 |
| Total Points | 45 |
| Rank | High |

IDENTIFICATION #88

Town
North Elba

Road Name Averyville Lane

Jurisdiction County

Watershed Ausable River:
West Branch



| | |
|--|---------------------------|
| Direct connection to water | Yes |
| % of Vegetation | 5 |
| Bank Slope | Moderate |
| Level of Erosion | Low |
| Length of Erosion (ft) | 50 |
| Width of Erosion (ft) | 6 |
| Total Area of Erosion (ft ²) | 300 |
| Soil Type | Fine sandy loam |
| Management Recommendations | Clean ditch and hydroseed |
| Cost | \$500 |
| Total Points | 36 |
| Rank | Moderate |

IDENTIFICATION #94

Town
North Elba

Road Name River Road

Jurisdiction Town

Watershed Ausable River:
West Branch



| | |
|--|--|
| Direct connection to water | Yes |
| % of Vegetation | 1 |
| Bank Slope | Low |
| Level of Erosion | Moderate |
| Length of Erosion (ft) | 40 |
| Width of Erosion (ft) | 3 |
| Total Area of Erosion (ft ²) | 120 |
| Soil Type | Fluvial deposits |
| Management Recommendations | Stabilize slope, install sediment collection and hydroseed |
| Cost | \$20,000 - \$30,000 |
| Total Points | 36 |
| Rank | Moderate |

IDENTIFICATION #95

Town
North Elba

Road Name Adk Loj Road

Jurisdiction Town

Watershed Ausable River:
West Branch



IDENTIFICATION #86

Town
North Elba

Road Name John Brown Road

Jurisdiction County

Watershed Ausable River:
West Branch



Direct connection to water No

% of Vegetation 2

Bank Slope Low

Level of Erosion Moderate

Length of Erosion (ft) 800

Width of Erosion (ft) 10

Total Area of Erosion (ft²) 8000

Soil Type Gravelly loamy sand

Management
Recommendations Hydroseed

Cost \$1000 - \$2000

Total Points 36

Rank Moderate

Direct connection to water No

% of Vegetation 5

Bank Slope Low

Level of Erosion Moderate

Length of Erosion (ft) 200

Width of Erosion (ft) 2

Total Area of Erosion (ft²) 400

Soil Type Gravelly loamy sand

Management
Recommendations Fill in damaged areas with
stone/gravel

Cost \$100 - \$200

Total Points 26

Rank Low

IDENTIFICATION #87

Town
North Elba

Road Name Averyville Patch La.

Jurisdiction County

Watershed Ausable River:
West Branch



IDENTIFICATION #90

Town
North Elba

Road Name Old Military Road

Jurisdiction County

Watershed Ausable River:
West Branch



Direct connection to water No

% of Vegetation 5

Bank Slope Low

Level of Erosion Moderate

Length of Erosion (ft) 60

Width of Erosion (ft) 3

Total Area of Erosion (ft²) 180

Soil Type Fine sandy loam

Management
Recommendations Fill in damaged areas with
stone/gravel

Cost \$200

Total Points 26

Rank Low

Direct connection to water No

% of Vegetation 0

Bank Slope Moderate

Level of Erosion Moderate

Length of Erosion (ft) 50

Width of Erosion (ft) 5

Total Area of Erosion (ft²) 250

Soil Type Gravelly loamy sand

Management
Recommendations Clean out ditch
and hydroseed

Cost \$400 - \$500

Total Points 30

Rank Low


TOWNS OF NORTH ELBA & ST. ARMAND

| IDENTIFICATION #92 | | IDENTIFICATION #1 | |
|--|---|--|---|
| Town North Elba |  | Town St. Armand |  |
| Road Name Old Military Road | | Road Name River Road | |
| Jurisdiction County | | Jurisdiction County | |
| Watershed Ausable River: West Branch | | Watershed Saranac River | |
| Direct connection to water | No | Direct connection to water | Yes |
| % of Vegetation | 5 | % of Vegetation | 30 |
| Bank Slope | Low | Bank Slope | Moderate |
| Level of Erosion | Low | Level of Erosion | Moderate |
| Length of Erosion (ft) | 50 | Length of Erosion (ft) | 100 |
| Width of Erosion (ft) | 2 | Width of Erosion (ft) | 25 |
| Total Area of Erosion (ft ²) | 100 | Total Area of Erosion (ft ²) | 2500 |
| Soil Type | Gravelly loamy sand | Soil Type | Loamy sand |
| Management Recommendations | Fill in damaged areas with stone/gravel | Management Recommendations | Hydroseed |
| Cost | \$100 | Cost | \$500 |
| Total Points | 22 | Total Points | 45 |
| Rank | Low | Rank | High |
| IDENTIFICATION #2 | | IDENTIFICATION #5 | |
| Town St. Armand |  | Town St. Armand |  |
| Road Name River Road | | Road Name River Road | |
| Jurisdiction County | | Jurisdiction County | |
| Watershed Saranac River | | Watershed Saranac River | |
| Direct connection to water | Yes | Direct connection to water | Yes |
| % of Vegetation | 5 | % of Vegetation | 5 |
| Bank Slope | Steep | Bank Slope | Moderate |
| Level of Erosion | Moderate | Level of Erosion | Moderate |
| Length of Erosion (ft) | 50 | Length of Erosion (ft) | 20 |
| Width of Erosion (ft) | 25 | Width of Erosion (ft) | 6 |
| Total Area of Erosion (ft ²) | 1250 | Total Area of Erosion (ft ²) | 120 |
| Soil Type | Fluvial deposits | Soil Type | Loamy sand |
| Management Recommendations | Stabilize with rock and gravel | Management Recommendations | Stabilize with rock and gravel and hydroseed |
| Cost | \$500 - \$1000 | Cost | \$1000 |
| Total Points | 45 | Total Points | 40 |
| Rank | High | Rank | High |

| IDENTIFICATION #6 | | IDENTIFICATION #3 | |
|--|---|--|---|
| Town St. Armand |  | Town St. Armand |  |
| Road Name River Road | | Road Name Guilespy Road | |
| Jurisdiction County | | Jurisdiction County | |
| Watershed Saranac River | | Watershed Saranac River | |
| Direct connection to water | Yes | Direct connection to water | No |
| % of Vegetation | 5 | % of Vegetation | 25 |
| Bank Slope | Moderate | Bank Slope | Low |
| Level of Erosion | Low | Level of Erosion | Moderate |
| Length of Erosion (ft) | 15 | Length of Erosion (ft) | 200 |
| Width of Erosion (ft) | 15 | Width of Erosion (ft) | 50 |
| Total Area of Erosion (ft ²) | 225 | Total Area of Erosion (ft ²) | 10,000 |
| Soil Type | Loamy sand | Soil Type | Gravelly loamy sand |
| Management Recommendations | Hydroseed | Management Recommendations | Hydroseed |
| Cost | \$300 - \$500 | Cost | \$1000 - \$1250 |
| Total Points | 36 | Total Points | 36 |
| Rank | Moderate | Rank | Moderate |
| IDENTIFICATION #4 | | IDENTIFICATION #0 | |
| Town St. Armand |  | Town St. Armand |  |
| Road Name Guilespy Road | | Road Name Moose Pond Road | |
| Jurisdiction County | | Jurisdiction Town | |
| Watershed Ausable River: West Branch | | Watershed Saranac River | |
| Direct connection to water | Yes | Direct connection to water | Yes |
| % of Vegetation | 20 | % of Vegetation | 5 |
| Bank Slope | Low | Bank Slope | Low |
| Level of Erosion | Moderate | Level of Erosion | Moderate |
| Length of Erosion (ft) | 100 | Length of Erosion (ft) | 25 |
| Width of Erosion (ft) | 15 | Width of Erosion (ft) | 15 |
| Total Area of Erosion (ft ²) | 1500 | Total Area of Erosion (ft ²) | 375 |
| Soil Type | Gravelly loamy sand | Soil Type | Loamy sand |
| Management Recommendations | Hydroseed | Management Recommendations | Stabilize with gravel and hydroseed |
| Cost | \$500 | Cost | \$100 - \$200 |
| Total Points | 36 | Total Points | 36 |
| Rank | Moderate | Rank | Moderate |

| IDENTIFICATION #53 | | IDENTIFICATION #50 | |
|--|---|--|---|
| Town Ticonderoga |  | Town Ticonderoga |  |
| Road Name | Putnam Road | Road Name | County Route 7 |
| Jurisdiction | County | Jurisdiction | County |
| Watershed | Putnam Creek | Watershed | Lake Champlain |
| Direct connection to water | Yes | Direct connection to water | No |
| % of Vegetation | 10 | % of Vegetation | 30 |
| Bank Slope | Low | Bank Slope | Low |
| Level of Erosion | Low | Level of Erosion | Low |
| Length of Erosion (ft) | 20 | Length of Erosion (ft) | 60 |
| Width of Erosion (ft) | 5 | Width of Erosion (ft) | 3 |
| Total Area of Erosion (ft ²) | 100 | Total Area of Erosion (ft ²) | 180 |
| Soil Type | Fine sandy Loam | Soil Type | Very gravelly loamy sand |
| Management Recommendations | Install sediment/water deflector | Management Recommendations | Fill holes with stone and hydroseed |
| Cost | \$200 | Cost | \$300 |
| Total Points | 32 | Total Points | 17 |
| Rank | Moderate | Rank | Low |
| IDENTIFICATION #51 | | IDENTIFICATION #52 | |
| Town Ticonderoga |  | Town Ticonderoga |  |
| Road Name | Lord Howe Road | Road Name | State Highway 74 |
| Jurisdiction | Town | Jurisdiction | State |
| Watershed | Lake Champlain | Watershed | Putnam Creek |
| Direct connection to water | Yes | Direct connection to water | No |
| % of Vegetation | 70 | % of Vegetation | 25 |
| Bank Slope | Low | Bank Slope | Moderate |
| Level of Erosion | Moderate | Level of Erosion | Moderate |
| Length of Erosion (ft) | 50 | Length of Erosion (ft) | 100 |
| Width of Erosion (ft) | 3 | Width of Erosion (ft) | 10 |
| Total Area of Erosion (ft ²) | 150 | Total Area of Erosion (ft ²) | 1000 |
| Soil Type | Silty clay loam | Soil Type | Fine sandy loam |
| Management Recommendations | Stabilize with stone and hydroseed | Management Recommendations | Hydroseed |
| Cost | \$500 | Cost | \$1000 |
| Total Points | 26 | Total Points | 30 |
| Rank | Low | Rank | Low |

| IDENTIFICATION #19 | | IDENTIFICATION #21 | |
|--|---|--|---|
| Town Westport |  | Town Westport |  |
| Road Name | McMahon Road | Road Name | McMahon Road |
| Jurisdiction | Town | Jurisdiction | Town |
| Watershed | Stacy Brook | Watershed | Stacy Brook |
| Direct connection to water | Yes | Direct connection to water | Yes |
| % of Vegetation | 15 | % of Vegetation | 10 |
| Bank Slope | Low | Bank Slope | Moderate |
| Level of Erosion | Moderate | Level of Erosion | Moderate |
| Length of Erosion (ft) | 500 | Length of Erosion (ft) | 100 |
| Width of Erosion (ft) | 30 | Width of Erosion (ft) | 15 |
| Total Area of Erosion (ft ²) | 15,000 | Total Area of Erosion (ft ²) | 1500 |
| Soil Type | Gravelly loamy sand | Soil Type | Gravelly loamy sand |
| Management Recommendations | Stabilize with gravel and hydroseed | Management Recommendations | Stabilize with gravel and hydroseed |
| Cost | \$2000 - \$3000 | Cost | \$500 - \$1000 |
| Total Points | 46 | Total Points | 40 |
| Rank | High | Rank | High |
| IDENTIFICATION #23 | | IDENTIFICATION #26 | |
| Town Westport |  | Town Westport |  |
| Road Name | Lake Shore Road | Road Name | Fitzgerald Road |
| Jurisdiction | County | Jurisdiction | Town |
| Watershed | Lake Champlain | Watershed | Hoisington Brook |
| Direct connection to water | Yes | Direct connection to water | Yes |
| % of Vegetation | 10 | % of Vegetation | 25 |
| Bank Slope | Moderate | Bank Slope | Moderate |
| Level of Erosion | Moderate | Level of Erosion | Moderate |
| Length of Erosion (ft) | 8 | Length of Erosion (ft) | 60 |
| Width of Erosion (ft) | 2 | Width of Erosion (ft) | 3 |
| Total Area of Erosion (ft ²) | 16 | Total Area of Erosion (ft ²) | 180 |
| Soil Type | Silty clay loam | Soil Type | Gravelly loamy sand |
| Management Recommendations | Stabilize with gravel and hydroseed Poss. sediment basin | Management Recommendations | Stabilize with gravel and hydroseed |
| Cost | \$1500 - \$2000 | Cost | \$1000 - \$1500 |
| Total Points | 40 | Total Points | 40 |
| Rank | High | Rank | High |

| IDENTIFICATION #27 | | IDENTIFICATION #28 | |
|--|---|--|---|
| Town Westport |  | Town Westport |  |
| Road Name | Decker Road | Road Name | Decker Road |
| Jurisdiction | Town | Jurisdiction | Town |
| Watershed | Boquet River | Watershed | Boquet River |
| Direct connection to water | Yes | Direct connection to water | Yes |
| % of Vegetation | 15 | % of Vegetation | 15 |
| Bank Slope | Moderate | Bank Slope | Low |
| Level of Erosion | Moderate | Level of Erosion | Moderate |
| Length of Erosion (ft) | 50 | Length of Erosion (ft) | 50 |
| Width of Erosion (ft) | 5 | Width of Erosion (ft) | 50 |
| Total Area of Erosion (ft ²) | 250 | Total Area of Erosion (ft ²) | 2500 |
| Soil Type | Fluvial deposits | Soil Type | Fluvial deposits |
| Management Recommendations | Stabilize with gravel and hydroseed | Management Recommendations | Install sediment basin and hydroseed |
| Cost | \$2000 - \$3000 | Cost | \$4000 - \$5000 |
| Total Points | 40 | Total Points | 46 |
| Rank | High | Rank | High |
| IDENTIFICATION #29 | | IDENTIFICATION #34 | |
| Town Westport |  | Town Westport |  |
| Road Name | Merriam Forge Road | Road Name | Mountain Spring Road |
| Jurisdiction | Town | Jurisdiction | Town |
| Watershed | Boquet River | Watershed | Stacy Brook |
| Direct connection to water | Yes | Direct connection to water | Yes |
| % of Vegetation | 15 | % of Vegetation | 0 |
| Bank Slope | Moderate | Bank Slope | Moderate |
| Level of Erosion | Moderate | Level of Erosion | High |
| Length of Erosion (ft) | 20 | Length of Erosion (ft) | 200 |
| Width of Erosion (ft) | 5 | Width of Erosion (ft) | 50 |
| Total Area of Erosion (ft ²) | 100 | Total Area of Erosion (ft ²) | 10,000 |
| Soil Type | Fluvial deposits | Soil Type | Gravelly loamy sand |
| Management Recommendations | Rebuild road | Management Recommendations | Replace culvert and restructure road |
| Cost | \$300,000 - \$500,000 | Cost | \$60,000 |
| Total Points | 40 | Total Points | 55 |
| Rank | High | Rank | High |

IDENTIFICATION #36

IDENTIFICATION #37

Town Westport
 Road Name Mountain Spring Road
 Jurisdiction Town
 Watershed Stacy Brook



Town Westport
 Road Name Mountain Spring Road
 Jurisdiction Town
 Watershed Stacy Brook



| | |
|--|--|
| Direct connection to water | Yes |
| % of Vegetation | 5 |
| Bank Slope | Moderate |
| Level of Erosion | Moderate |
| Length of Erosion (ft) | 200 |
| Width of Erosion (ft) | 20 |
| Total Area of Erosion (ft ²) | 4000 |
| Soil Type | Gravelly loamy sand |
| Management Recommendations | Clean culvert outlet and stabilize ditch with rock |
| Cost | \$1000 - \$2000 |
| Total Points | 50 |
| Rank | High |

| | |
|--|--|
| Direct connection to water | Yes |
| % of Vegetation | 0 |
| Bank Slope | Low |
| Level of Erosion | Moderate |
| Length of Erosion (ft) | 200 |
| Width of Erosion (ft) | 10 |
| Total Area of Erosion (ft ²) | 2000 |
| Soil Type | Gravelly loamy sand |
| Management Recommendations | Replace culvert and stabilize road with rock |
| Cost | \$5000 - \$10,000 |
| Total Points | 46 |
| Rank | High |

IDENTIFICATION #38

IDENTIFICATION #39

Town Westport
 Road Name Mountain Spring Road
 Jurisdiction Town
 Watershed Stacy Brook



Town Westport
 Road Name Mountain Spring Road
 Jurisdiction Town
 Watershed Stacy Brook



| | |
|--|---|
| Direct connection to water | Yes |
| % of Vegetation | 10 |
| Bank Slope | Steep |
| Level of Erosion | High |
| Length of Erosion (ft) | 300 |
| Width of Erosion (ft) | 20 |
| Total Area of Erosion (ft ²) | 6000 |
| Soil Type | Gravelly loamy sand |
| Management Recommendations | Stabilize with gravel/stone and hydroseed |
| Cost | \$2000 - \$3000 |
| Total Points | 60 |
| Rank | High |

| | |
|--|---------------------|
| Direct connection to water | Yes |
| % of Vegetation | 50 |
| Bank Slope | Moderate |
| Level of Erosion | Moderate |
| Length of Erosion (ft) | 200 |
| Width of Erosion (ft) | 10 |
| Total Area of Erosion (ft ²) | 2000 |
| Soil Type | Gravelly loamy sand |
| Management Recommendations | Hydroseed |
| Cost | \$300 - \$500 |
| Total Points | 45 |
| Rank | High |

| IDENTIFICATION #33 | | IDENTIFICATION #35 | |
|--|---|--|---|
| Town Westport |  | Town Westport |  |
| Road Name Mountain Spring Road | | Road Name Mountain Spring Road | |
| Jurisdiction Town | | Jurisdiction Town | |
| Watershed Stacy Brook | | Watershed Stacy Brook | |
| Direct connection to water | No | Direct connection to water | Yes |
| % of Vegetation | 30 | % of Vegetation | 20 |
| Bank Slope | Moderate | Bank Slope | Moderate |
| Level of Erosion | Moderate | Level of Erosion | Low |
| Length of Erosion (ft) | 200 | Length of Erosion (ft) | 20 |
| Width of Erosion (ft) | 25 | Width of Erosion (ft) | 15 |
| Total Area of Erosion (ft ²) | 5000 | Total Area of Erosion (ft ²) | 300 |
| Soil Type | Gravelly loamy sand | Soil Type | Gravelly loamy sand |
| Management Recommendations | Hydroseed | Management Recommendations | Hydroseed |
| Cost | \$1000 - \$3000 | Cost | \$500 - \$1000 |
| Total Points | 35 | Total Points | 36 |
| Rank | Moderate | Rank | Moderate |
| IDENTIFICATION #16 | | IDENTIFICATION #20 | |
| Town Westport |  | Town Westport |  |
| Road Name McConley Road | | Road Name McConley Road | |
| Jurisdiction Town | | Jurisdiction Town | |
| Watershed Mullen Brook | | Watershed Stacy Brook | |
| Direct connection to water | No | Direct connection to water | Yes |
| % of Vegetation | 25 | % of Vegetation | 30 |
| Bank Slope | Steep | Bank Slope | Low |
| Level of Erosion | Low | Level of Erosion | Low |
| Length of Erosion (ft) | 60 | Length of Erosion (ft) | 150 |
| Width of Erosion (ft) | 20 | Width of Erosion (ft) | 15 |
| Total Area of Erosion (ft ²) | 1200 | Total Area of Erosion (ft ²) | 2250 |
| Soil Type | Gravelly loamy sand | Soil Type | Gravelly loamy sand |
| Management Recommendations | Stabilize with gravel and hydroseed | Management Recommendations | Stabilize with gravel and hydroseed |
| Cost | \$500 - \$1000 | Cost | \$1000 |
| Total Points | 31 | Total Points | 37 |
| Rank | Moderate | Rank | Moderate |

| IDENTIFICATION #24 | | IDENTIFICATION #25 | |
|--|---|--|---|
| Town Westport |  | Town Westport |  |
| Road Name | Furnace Point Lane | Road Name | Fitzgerald Road |
| Jurisdiction | Town | Jurisdiction | Town |
| Watershed | Lake Champlain | Watershed | Hoisington Brook |
| Direct connection to water | No | Direct connection to water | Yes |
| % of Vegetation | 10 | % of Vegetation | 60 |
| Bank Slope | Low | Bank Slope | Low |
| Level of Erosion | Moderate | Level of Erosion | Moderate |
| Length of Erosion (ft) | 40 | Length of Erosion (ft) | 200 |
| Width of Erosion (ft) | 40 | Width of Erosion (ft) | 25 |
| Total Area of Erosion (ft ²) | 1600 | Total Area of Erosion (ft ²) | 5000 |
| Soil Type | Silty clay loam | Soil Type | Gravelly loamy sand |
| Management Recommendations | Stabilize with gravel and hydroseed | Management Recommendations | Remove excess sediment and hydroseed |
| Cost | \$1000 | Cost | \$600 - \$700 |
| Total Points | 31 | Total Points | 36 |
| Rank | Moderate | Rank | Moderate |
| IDENTIFICATION #31 | | IDENTIFICATION #17 | |
| Town Westport |  | Town Westport |  |
| Road Name | Merriam Forge Road | Road Name | Mountain Spring Road |
| Jurisdiction | Town | Jurisdiction | Town |
| Watershed | Boquet River | Watershed | Stacy Brook |
| Direct connection to water | Yes | Direct connection to water | No |
| % of Vegetation | 40 | % of Vegetation | 55 |
| Bank Slope | Moderate | Bank Slope | Low |
| Level of Erosion | Moderate | Level of Erosion | Low |
| Length of Erosion (ft) | 30 | Length of Erosion (ft) | 100 |
| Width of Erosion (ft) | 10 | Width of Erosion (ft) | 10 |
| Total Area of Erosion (ft ²) | 300 | Total Area of Erosion (ft ²) | 1000 |
| Soil Type | Silty clay loam | Soil Type | Mucky, silty clay loam |
| Management Recommendations | Rebuild road | Management Recommendations | Stabilize with stone and hydroseed |
| Cost | \$200,000 - \$300,000 | Cost | \$500 |
| Total Points | 35 | Total Points | 12 |
| Rank | Moderate | Rank | Low |

IDENTIFICATION #18

| | |
|--------------|----------------------|
| Town | Westport |
| Road Name | Mountain Spring Road |
| Jurisdiction | Town |
| Watershed | Stacy Brook |



IDENTIFICATION #22

| | |
|--------------|------------------|
| Town | Westport |
| Road Name | Fitzgerald Road |
| Jurisdiction | Town |
| Watershed | Hoisington Brook |



| | |
|--|--------------------------------------|
| Direct connection to water | No |
| % of Vegetation | 55 |
| Bank Slope | Low |
| Level of Erosion | Low |
| Length of Erosion (ft) | 75 |
| Width of Erosion (ft) | 10 |
| Total Area of Erosion (ft ²) | 750 |
| Soil Type | Loamy sand |
| Management Recommendations | Remove excess sediment and hydroseed |
| Cost | \$300 - \$500 |
| Total Points | 12 |
| Rank | Low |

| | |
|--|-------------------------------------|
| Direct connection to water | No |
| % of Vegetation | 15 |
| Bank Slope | Low |
| Level of Erosion | Moderate |
| Length of Erosion (ft) | 15 |
| Width of Erosion (ft) | 3 |
| Total Area of Erosion (ft ²) | 45 |
| Soil Type | Fine sandy loam |
| Management Recommendations | Fill in washed out areas with stone |
| Cost | \$500 |
| Total Points | 26 |
| Rank | Low |

IDENTIFICATION #30

| | |
|--------------|----------------|
| Town | Westport |
| Road Name | Eggleston Lane |
| Jurisdiction | Town |
| Watershed | Boquet River |



IDENTIFICATION #32

| | |
|--------------|----------------|
| Town | Westport |
| Road Name | Eggleston Lane |
| Jurisdiction | Town |
| Watershed | Boquet River |



| | |
|--|-------------------------------------|
| Direct connection to water | Yes |
| % of Vegetation | 30 |
| Bank Slope | Low |
| Level of Erosion | Low |
| Length of Erosion (ft) | 100 |
| Width of Erosion (ft) | 10 |
| Total Area of Erosion (ft ²) | 1000 |
| Soil Type | Silty clay loam |
| Management Recommendations | Stabilize with gravel and hydroseed |
| Cost | \$500 |
| Total Points | 27 |
| Rank | Low |

| | |
|--|-------------------------------------|
| Direct connection to water | No |
| % of Vegetation | 5 |
| Bank Slope | Low |
| Level of Erosion | Low |
| Length of Erosion (ft) | 25 |
| Width of Erosion (ft) | 5 |
| Total Area of Erosion (ft ²) | 125 |
| Soil Type | Pittsfield loam |
| Management Recommendations | Stabilize with gravel and hydroseed |
| Cost | \$500 |
| Total Points | 22 |
| Rank | Low |

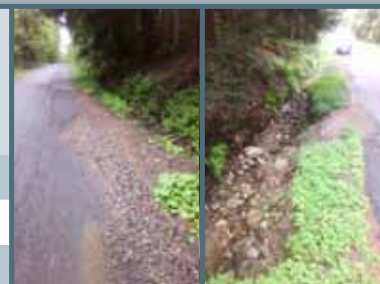
IDENTIFICATION #58

IDENTIFICATION #57

Town
Willsboro



Town
Willsboro



Road Name Joe Rivers Road

Road Name Reber Road

Jurisdiction Town

Jurisdiction Town

Watershed Boquet River

Watershed Boquet River

Direct connection to water No

Direct connection to water No

% of Vegetation 10

% of Vegetation 50

Bank Slope Moderate

Bank Slope Steep

Level of Erosion Moderate

Level of Erosion Moderate

Length of Erosion (ft) 5280

Length of Erosion (ft) 60

Width of Erosion (ft) 25

Width of Erosion (ft) 3

Total Area of Erosion (ft²) 132,000

Total Area of Erosion (ft²) 180

Soil Type Silty clay loam

Soil Type Silty clay loam

Management Recommendations Clean ditches on both sides of road and hydroseed

Management Recommendations Structural

Cost \$15,000 - \$20,000

Cost \$500

Total Points 40

Total Points 30

Rank High

Rank Low

IDENTIFICATION #9

IDENTIFICATION #10

Town
Wilmington



Town
Wilmington



Road Name Hazelton Road

Road Name Lenny Preston Road

Jurisdiction County

Jurisdiction Town

Watershed Ausable River:
West Branch

Watershed Ausable River:
West Branch

Direct connection to water No

Direct connection to water Yes

% of Vegetation 0

% of Vegetation 0

Bank Slope Steep

Bank Slope Moderate

Level of Erosion Moderate

Level of Erosion Moderate

Length of Erosion (ft) 300

Length of Erosion (ft) 20

Width of Erosion (ft) 25

Width of Erosion (ft) 60

Total Area of Erosion (ft²) 7500

Total Area of Erosion (ft²) 1200

Soil Type Loamy sand

Soil Type Loamy sand

Management Recommendations Hydroseed

Management Recommendations Stabilize with rock and hydroseed

Cost \$1000 - \$2000




Cost \$5000




Total Points 45

Total Points 40

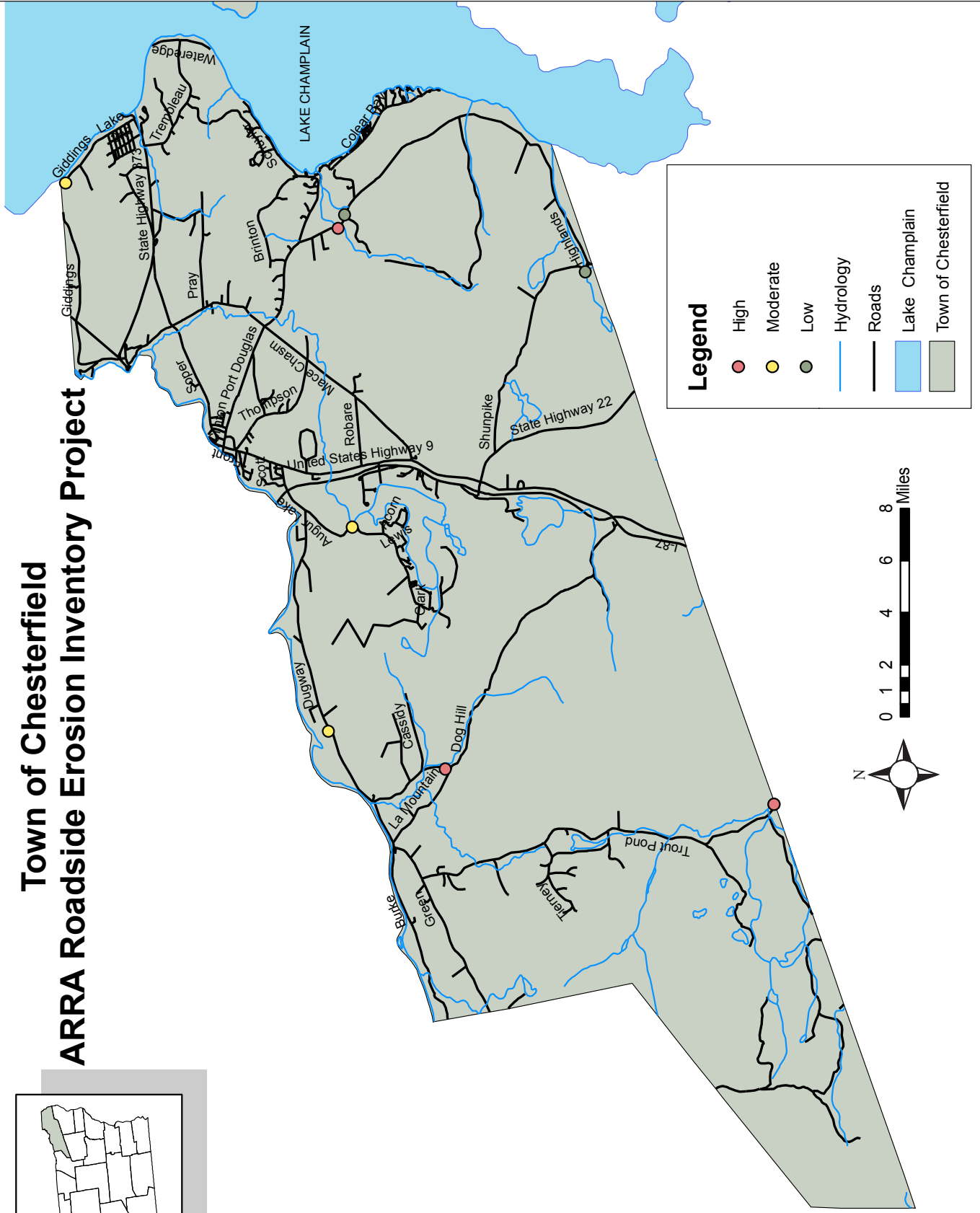
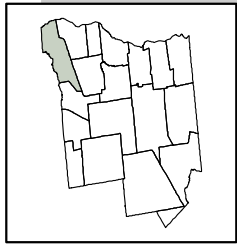
Rank High

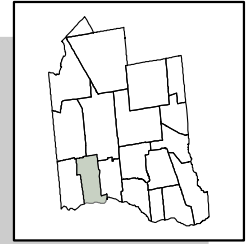
Rank High

| IDENTIFICATION #15 | | IDENTIFICATION #12 | | | | | | | | | | | | | | | | | |
|---|---|--|----------------------------------|------------------|--------------|-------|-----------|-------------------------------|---|---|-------------|------------|-----------|---------------|--------------|--------|-----------|-------------------------------|---|
| <table border="1"> <tr> <td>Town</td> <td>Wilmington</td> </tr> <tr> <td>Road Name</td> <td>Reservoir Lane</td> </tr> <tr> <td>Jurisdiction</td> <td>Town</td> </tr> <tr> <td>Watershed</td> <td>Ausable River: West Branch</td> </tr> </table> | Town | Wilmington | Road Name | Reservoir Lane | Jurisdiction | Town | Watershed | Ausable River: West Branch |  | <table border="1"> <tr> <td>Town</td> <td>Wilmington</td> </tr> <tr> <td>Road Name</td> <td>Fox Farm Road</td> </tr> <tr> <td>Jurisdiction</td> <td>County</td> </tr> <tr> <td>Watershed</td> <td>Ausable River: West Branch</td> </tr> </table> | Town | Wilmington | Road Name | Fox Farm Road | Jurisdiction | County | Watershed | Ausable River: West Branch |  |
| Town | Wilmington | | | | | | | | | | | | | | | | | | |
| Road Name | Reservoir Lane | | | | | | | | | | | | | | | | | | |
| Jurisdiction | Town | | | | | | | | | | | | | | | | | | |
| Watershed | Ausable River: West Branch | | | | | | | | | | | | | | | | | | |
| Town | Wilmington | | | | | | | | | | | | | | | | | | |
| Road Name | Fox Farm Road | | | | | | | | | | | | | | | | | | |
| Jurisdiction | County | | | | | | | | | | | | | | | | | | |
| Watershed | Ausable River: West Branch | | | | | | | | | | | | | | | | | | |
| Direct connection to water | Yes | Direct connection to water | Yes | | | | | | | | | | | | | | | | |
| % of Vegetation | 5 | % of Vegetation | 10 | | | | | | | | | | | | | | | | |
| Bank Slope | Steep | Bank Slope | Low | | | | | | | | | | | | | | | | |
| Level of Erosion | Moderate | Level of Erosion | Low | | | | | | | | | | | | | | | | |
| Length of Erosion (ft) | 25 | Length of Erosion (ft) | 15 | | | | | | | | | | | | | | | | |
| Width of Erosion (ft) | 6 | Width of Erosion (ft) | 6 | | | | | | | | | | | | | | | | |
| Total Area of Erosion (ft ²) | 150 | Total Area of Erosion (ft ²) | 90 | | | | | | | | | | | | | | | | |
| Soil Type | Gravelly loamy sand | Soil Type | Loamy sand | | | | | | | | | | | | | | | | |
| Management Recommendations | Stabilize with gravel and hydroseed | Management Recommendations | Hydroseed | | | | | | | | | | | | | | | | |
| Cost | \$500 - \$1000 | Cost | \$300 - \$500 | | | | | | | | | | | | | | | | |
| Total Points | 45 | Total Points | 32 | | | | | | | | | | | | | | | | |
| Rank | High | Rank | Moderate | | | | | | | | | | | | | | | | |
| IDENTIFICATION #14 | | IDENTIFICATION #7 | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr> <td>Town</td> <td>Wilmington</td> </tr> <tr> <td>Road Name</td> <td>State Highway 86</td> </tr> <tr> <td>Jurisdiction</td> <td>State</td> </tr> <tr> <td>Watershed</td> <td>Ausable River: West Branch</td> </tr> </table> | Town | Wilmington | Road Name | State Highway 86 | Jurisdiction | State | Watershed | Ausable River: West Branch |  | <table border="1"> <tr> <td>Town</td> <td>Wilmington</td> </tr> <tr> <td>Road Name</td> <td>Perkins Lane</td> </tr> <tr> <td>Jurisdiction</td> <td>Town</td> </tr> <tr> <td>Watershed</td> <td>Ausable River: West Branch</td> </tr> </table> | Town | Wilmington | Road Name | Perkins Lane | Jurisdiction | Town | Watershed | Ausable River: West Branch |  |
| Town | Wilmington | | | | | | | | | | | | | | | | | | |
| Road Name | State Highway 86 | | | | | | | | | | | | | | | | | | |
| Jurisdiction | State | | | | | | | | | | | | | | | | | | |
| Watershed | Ausable River: West Branch | | | | | | | | | | | | | | | | | | |
| Town | Wilmington | | | | | | | | | | | | | | | | | | |
| Road Name | Perkins Lane | | | | | | | | | | | | | | | | | | |
| Jurisdiction | Town | | | | | | | | | | | | | | | | | | |
| Watershed | Ausable River: West Branch | | | | | | | | | | | | | | | | | | |
| Direct connection to water | Yes | Direct connection to water | Yes | | | | | | | | | | | | | | | | |
| % of Vegetation | 10 | % of Vegetation | 40 | | | | | | | | | | | | | | | | |
| Bank Slope | Moderate | Bank Slope | Low | | | | | | | | | | | | | | | | |
| Level of Erosion | Low | Level of Erosion | Low | | | | | | | | | | | | | | | | |
| Length of Erosion (ft) | 30 | Length of Erosion (ft) | 40 | | | | | | | | | | | | | | | | |
| Width of Erosion (ft) | 5 | Width of Erosion (ft) | 10 | | | | | | | | | | | | | | | | |
| Total Area of Erosion (ft ²) | 150 | Total Area of Erosion (ft ²) | 400 | | | | | | | | | | | | | | | | |
| Soil Type | Gravelly loamy sand | Soil Type | Fluvial deposits | | | | | | | | | | | | | | | | |
| Management Recommendations | Install sediment basin or infiltration system | Management Recommendations | Install water/sediment deflector | | | | | | | | | | | | | | | | |
| Cost | \$10,000 - \$20,000 | Cost | \$200 | | | | | | | | | | | | | | | | |
| Total Points | 36 | Total Points | 27 | | | | | | | | | | | | | | | | |
| Rank | Moderate | Rank | Low | | | | | | | | | | | | | | | | |

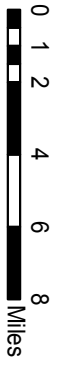
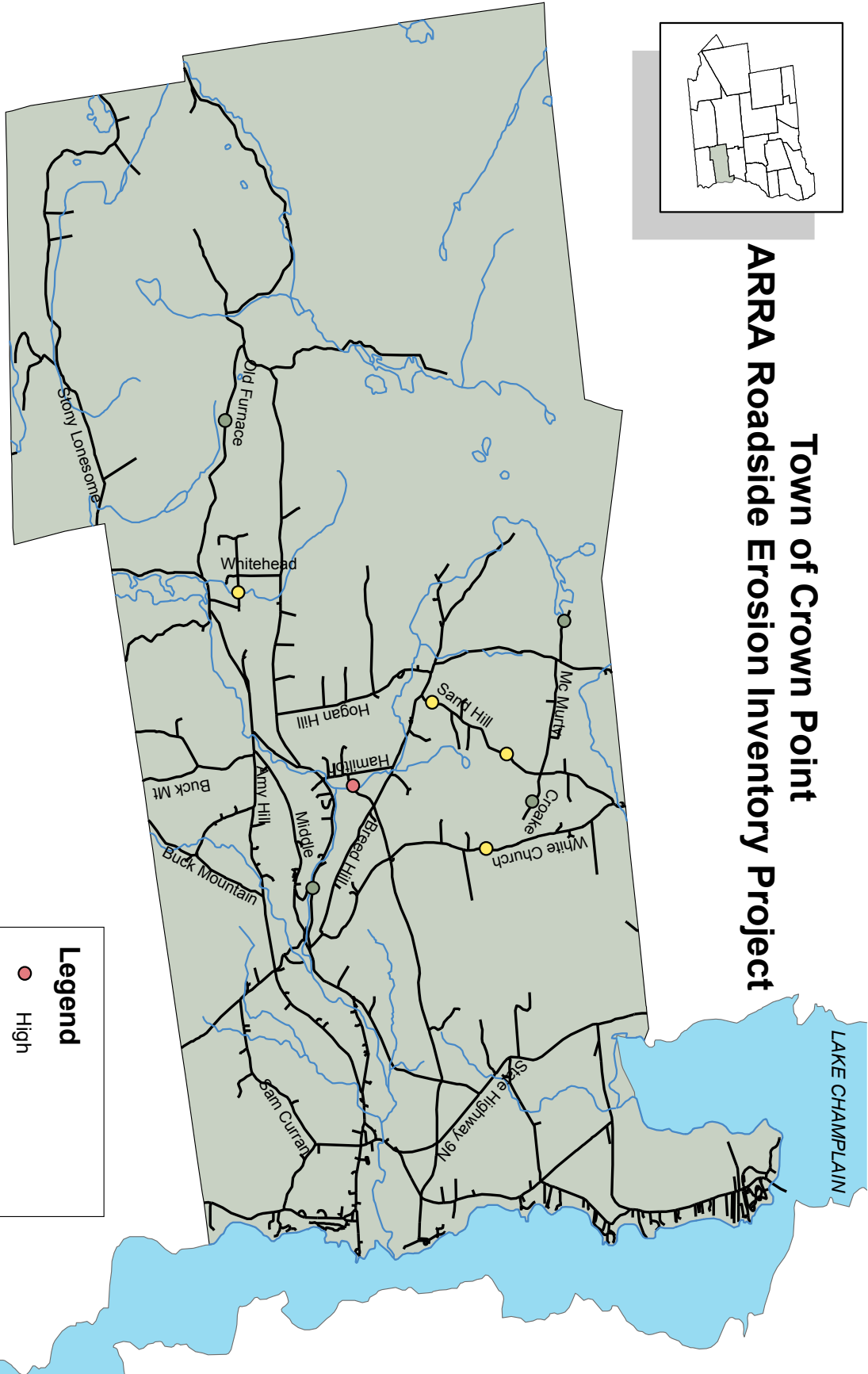
| IDENTIFICATION #8 | | IDENTIFICATION #11 | |
|--|---|--|---|
| Town Wilmington |  | Town Wilmington |  |
| Road Name | Deep Wood Lane | Road Name | Guilespy Road |
| Jurisdiction | Town | Jurisdiction | County |
| Watershed | Ausable River: West Branch | Watershed | Ausable River: West Branch |
| Direct connection to water | No | Direct connection to water | No |
| % of Vegetation | 30 | % of Vegetation | 25 |
| Bank Slope | Low | Bank Slope | Low |
| Level of Erosion | Moderate | Level of Erosion | Moderate |
| Length of Erosion (ft) | 50 | Length of Erosion (ft) | 100 |
| Width of Erosion (ft) | 15 | Width of Erosion (ft) | 5 |
| Total Area of Erosion (ft ²) | 750 | Total Area of Erosion (ft ²) | 500 |
| Soil Type | Loamy sand | Soil Type | Gravelly loamy sand |
| Management Recommendations | Hydroseed | Management Recommendations | Stabilize with gravel and hydroseed |
| Cost | \$500 - \$700 | Cost | \$300 - \$500 |
| Total Points | 21 | Total Points | 26 |
| Rank | Low | Rank | Low |
| IDENTIFICATION #13 | | | |
| Town Wilmington |  | | |
| Road Name | Quaker Mt. Road | | |
| Jurisdiction | Town | | |
| Watershed | West Branch: Ausable River | | |
| Direct connection to water | No | | |
| % of Vegetation | 0 | | |
| Bank Slope | Low | | |
| Level of Erosion | Moderate | | |
| Length of Erosion (ft) | 60 | | |
| Width of Erosion (ft) | 20 | | |
| Total Area of Erosion (ft ²) | 1200 | | |
| Soil Type | Gravelly loamy sand | | |
| Management Recommendations | Install infiltration measures and hydroseed | | |
| Cost | \$3000 - \$5000 | | |
| Total Points | 26 | | |
| Rank | Low | | |

Town of Chesterfield ARRA Roadside Erosion Inventory Project





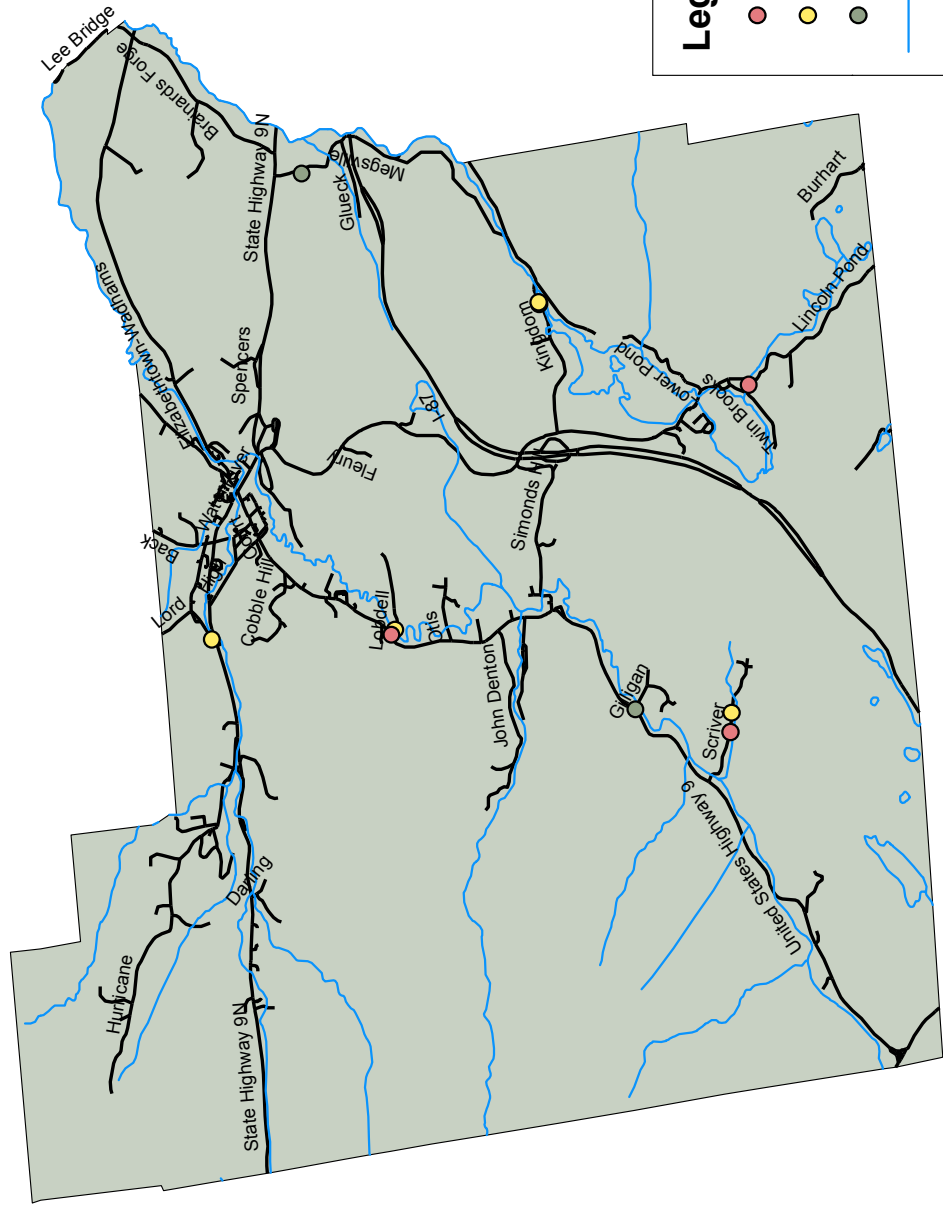
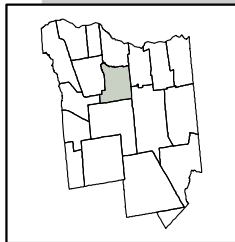
Town of Crown Point ARRA Roadside Erosion Inventory Project



Legend

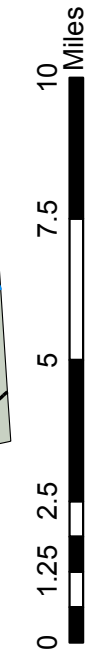
- High
- Moderate
- Low
- Hydrology
- Roads
- Town of Crown Point

Town of Elizabethtown ARRA Roadside Erosion Inventory Project

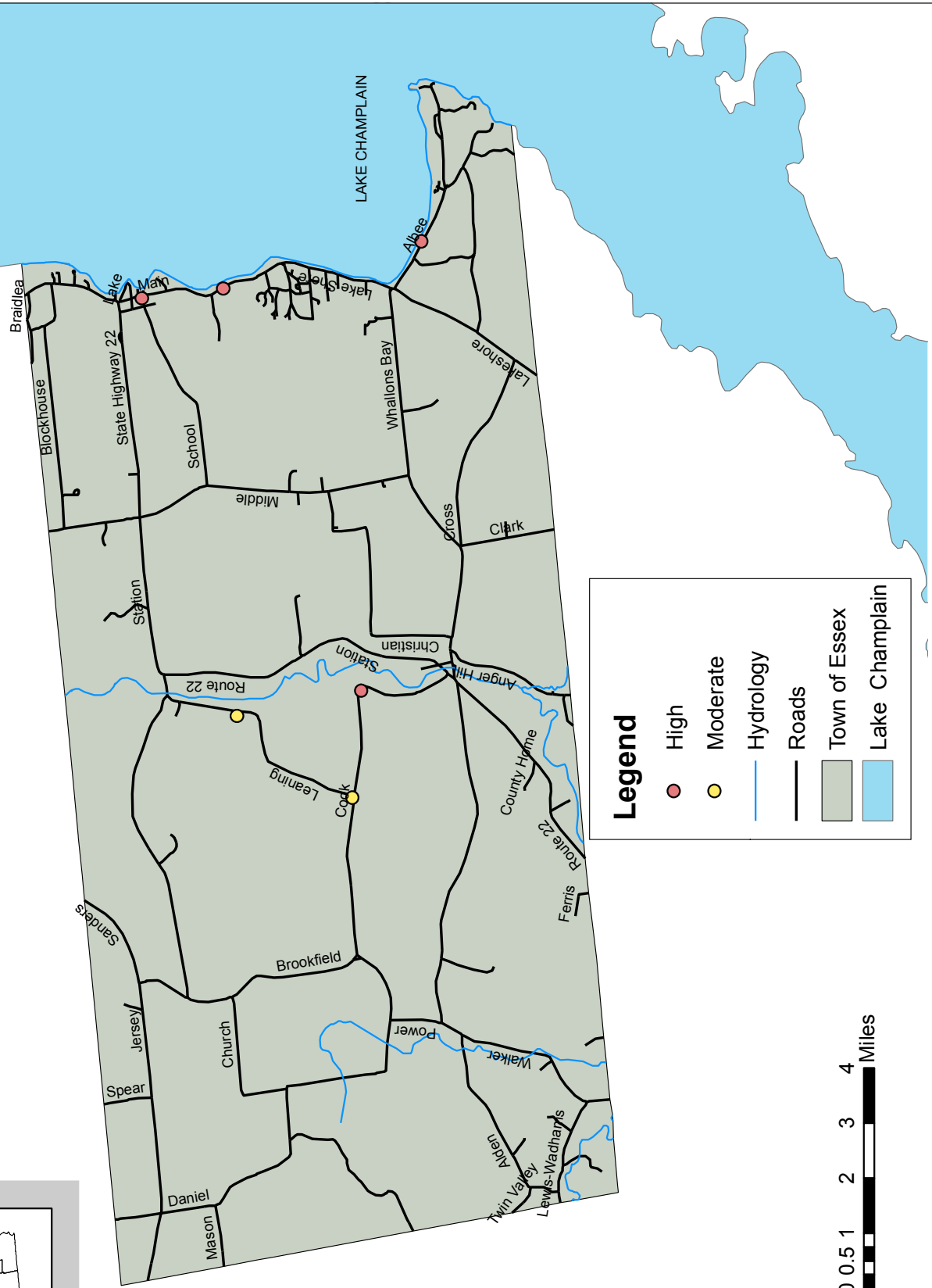
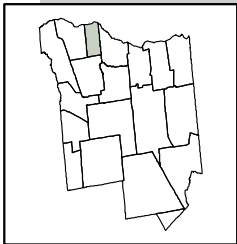


Legend

- High (Red dot)
- Moderate (Yellow dot)
- Low (Grey dot)
- Hydrology (Blue line)
- Roads (Black line)
- Town of Elizabethtown (Light green shaded area)

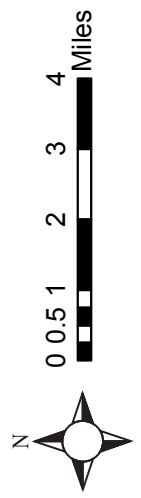


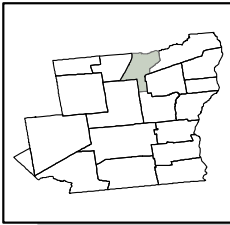
Town of Essex ARRA Roadside Erosion Inventory Project



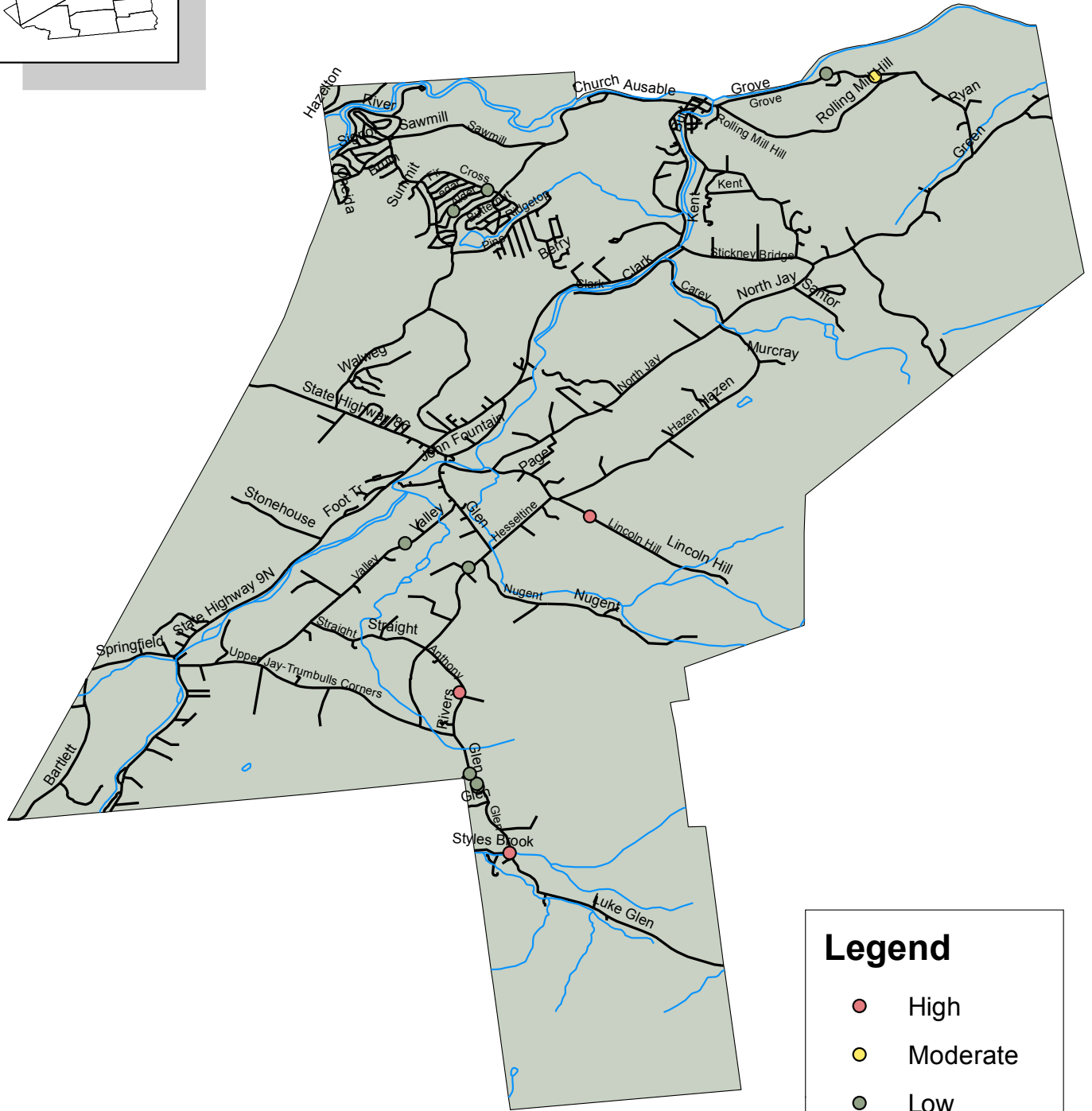
Legend

- High
- Moderate
- Hydrology
- Roads
- Town of Essex
- Lake Champlain



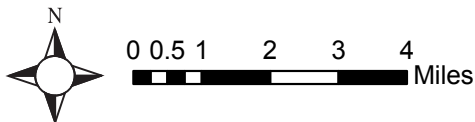


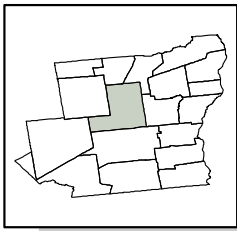
Town of Jay ARRA Roadside Erosion Inventory Project



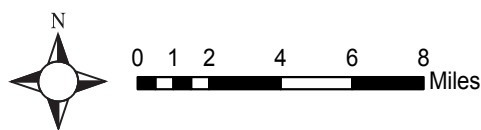
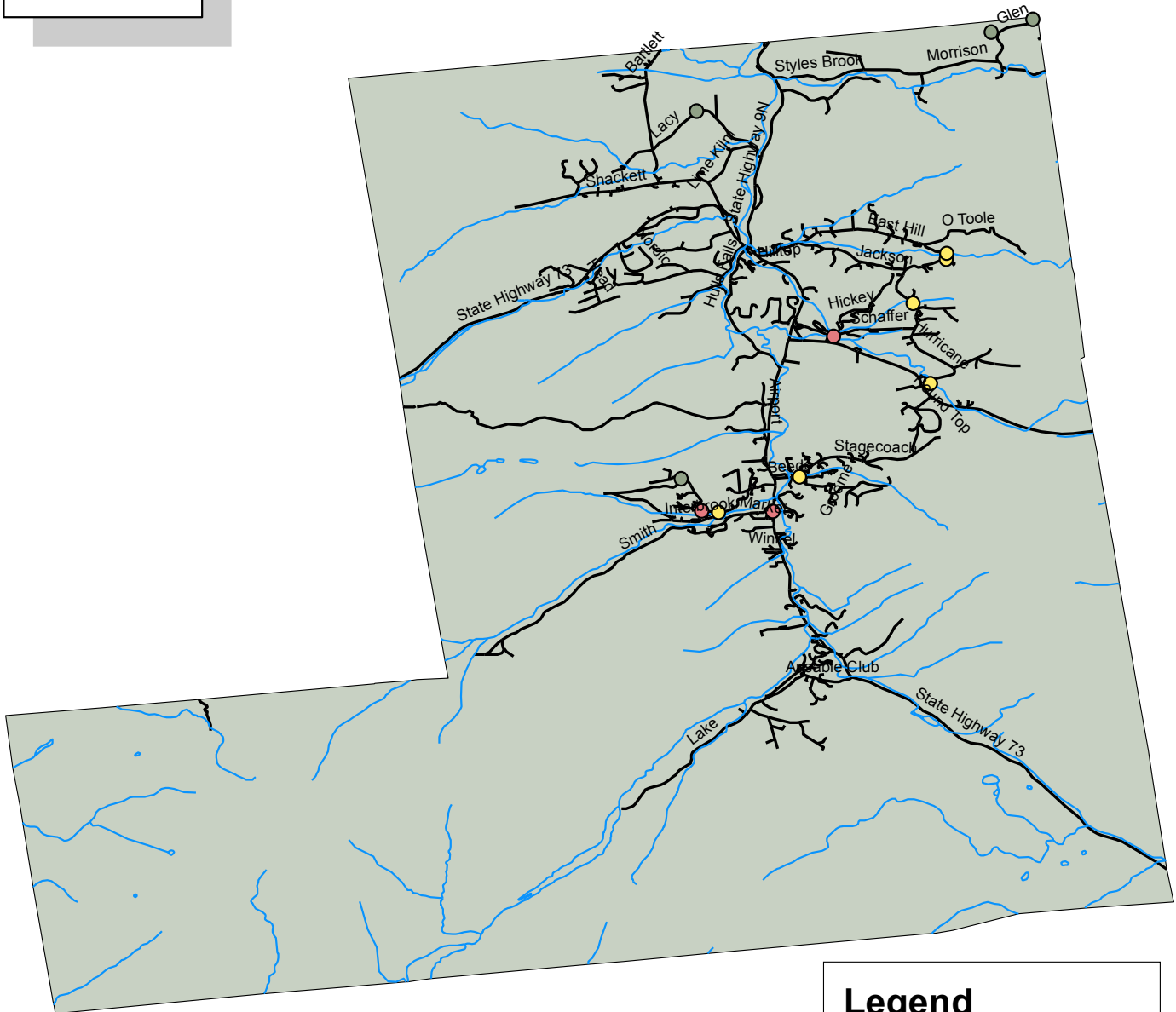
Legend

- High
- Moderate
- Low
- Hydrology
- Roads
- Town of Jay





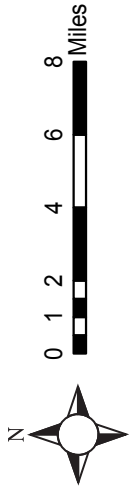
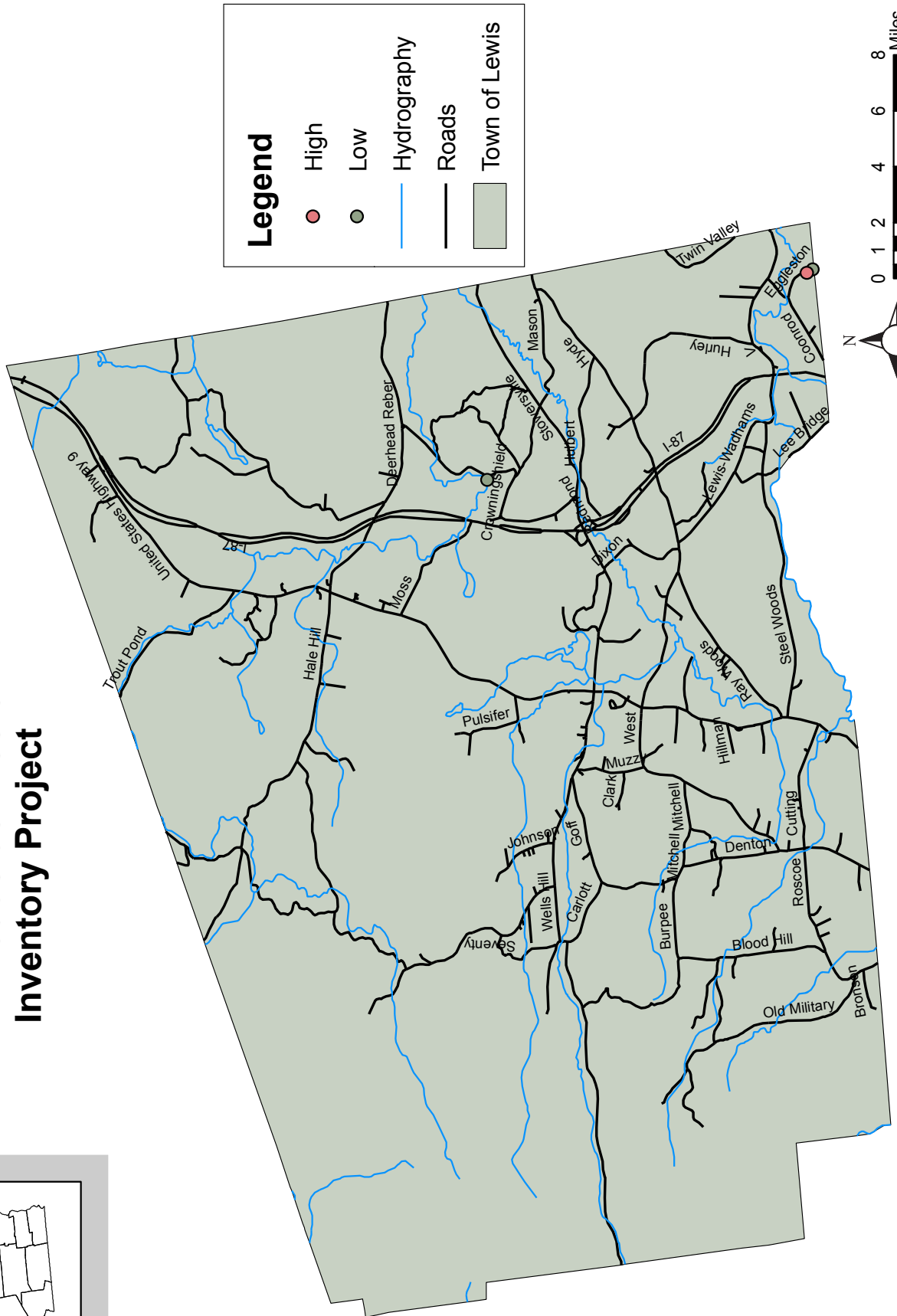
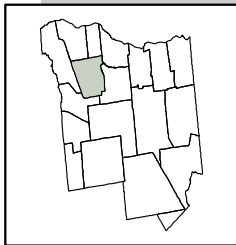
Town of Keene ARRA Roadside Erosion Inventory Project

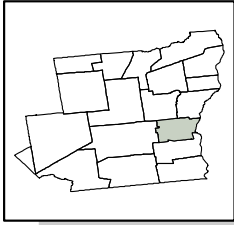


Legend

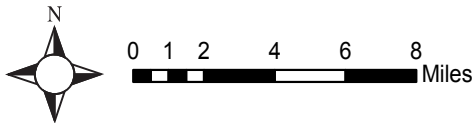
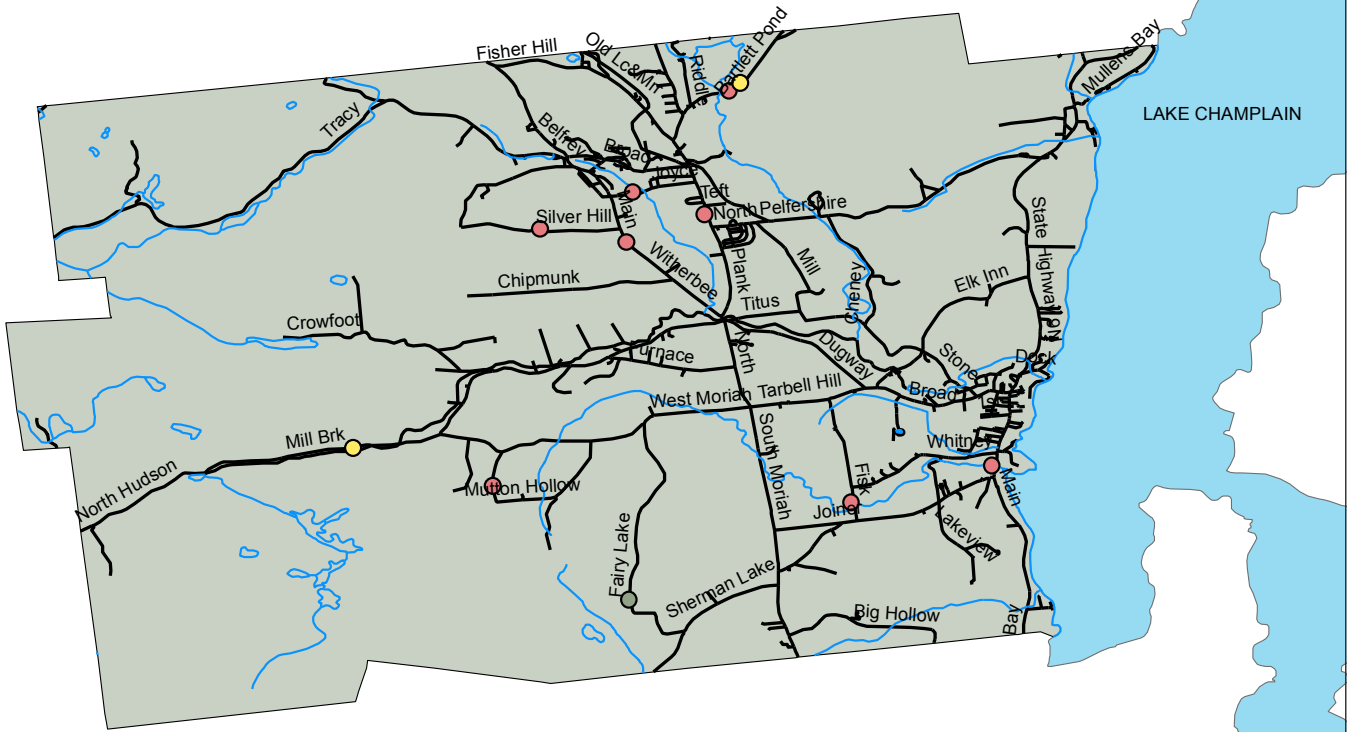
- High
- Moderate
- Low
- Hydrology
- Roads
- Town of Keene

Town of Lewis ARRA Roadside Erosion Inventory Project





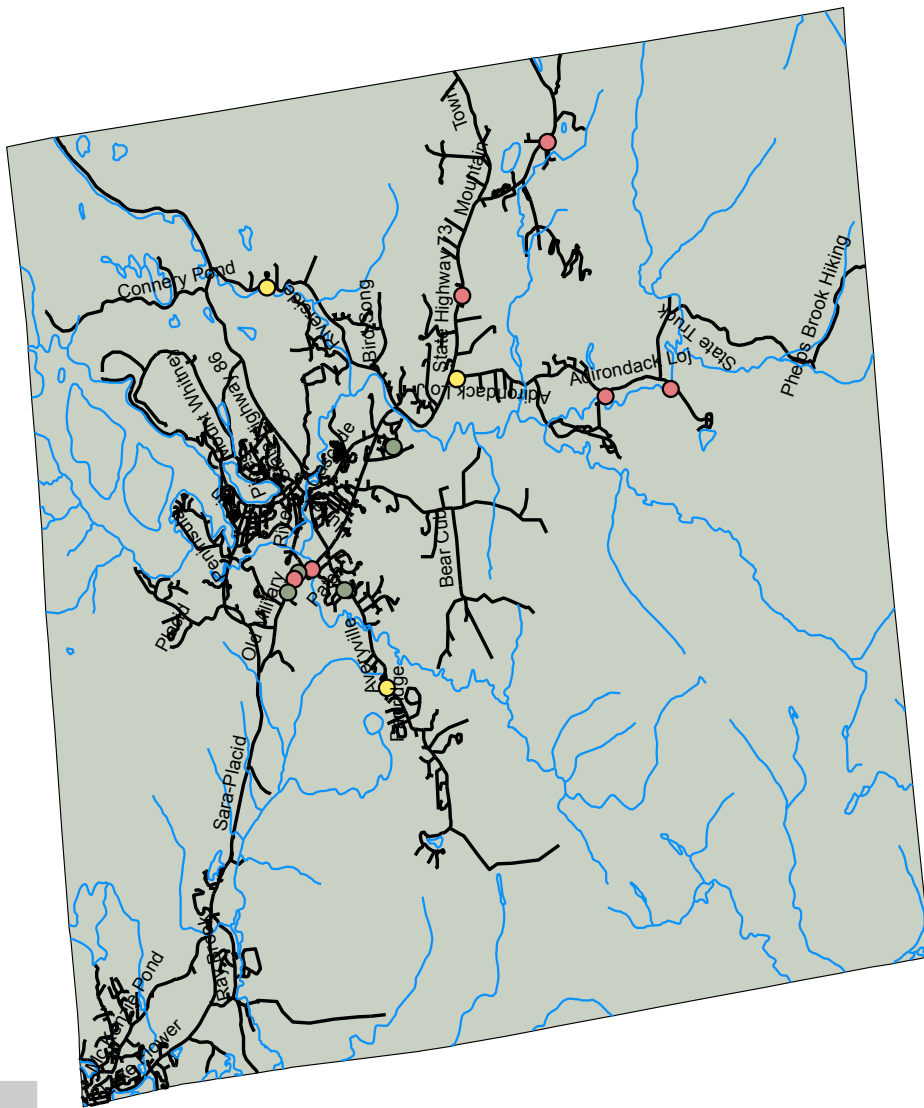
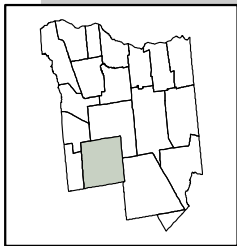
Town of Moriah ARRA Roadside Erosion Inventory Project



Legend

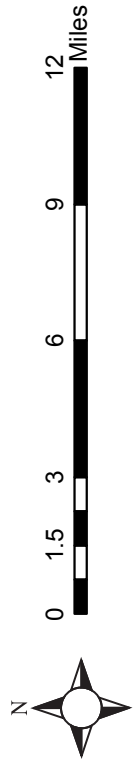
- High
- Moderate
- Low
- Hydrology
- Roads
- Lake Champlain
- Town of Moriah

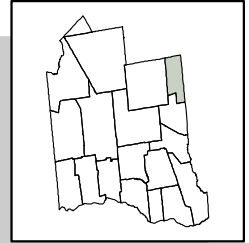
Town of North Elba ARRA Roadside Erosion Inventory Project



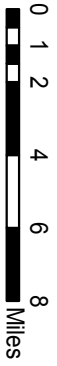
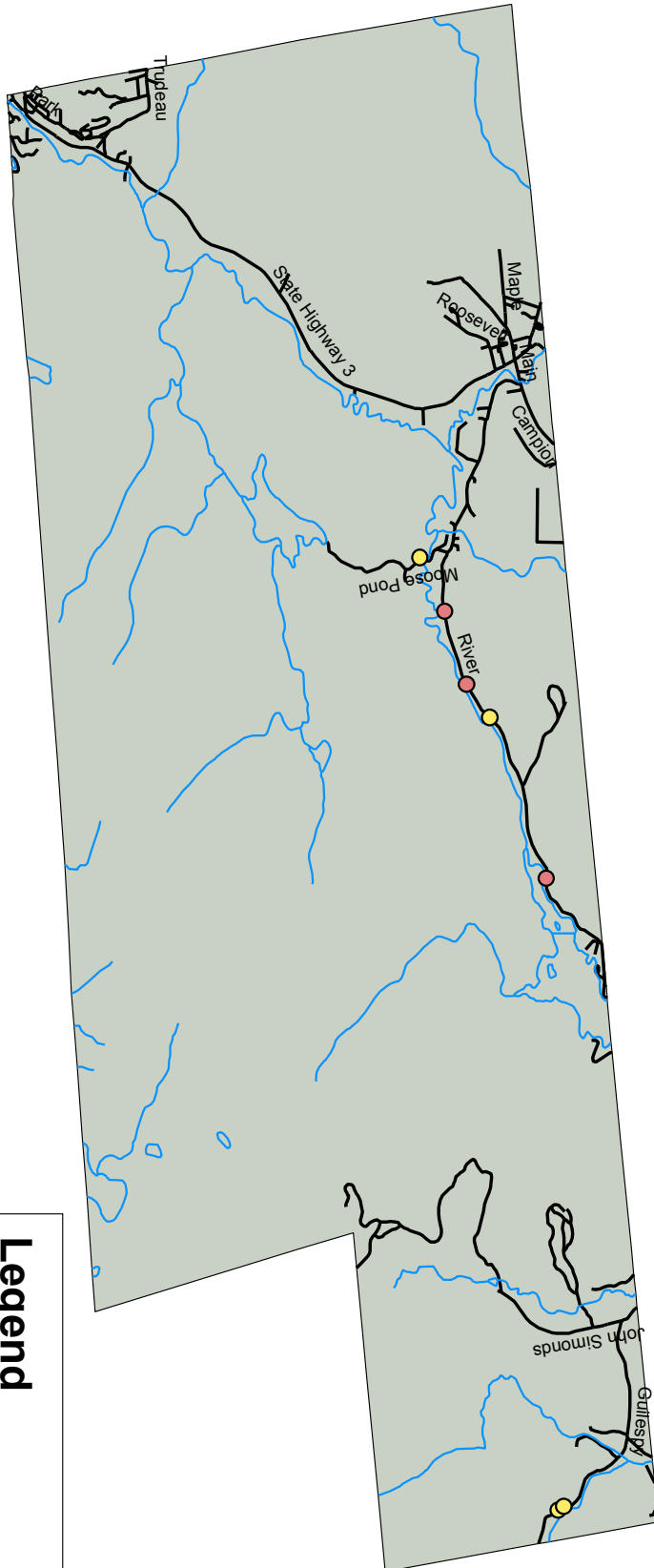
Legend

- High (Red dot)
- Moderate (Yellow dot)
- Low (Green dot)
- Hydrology (Blue line)
- Roads (Black line)
- Town of North Elba (Grey shaded area)





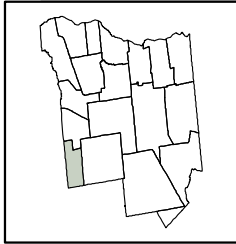
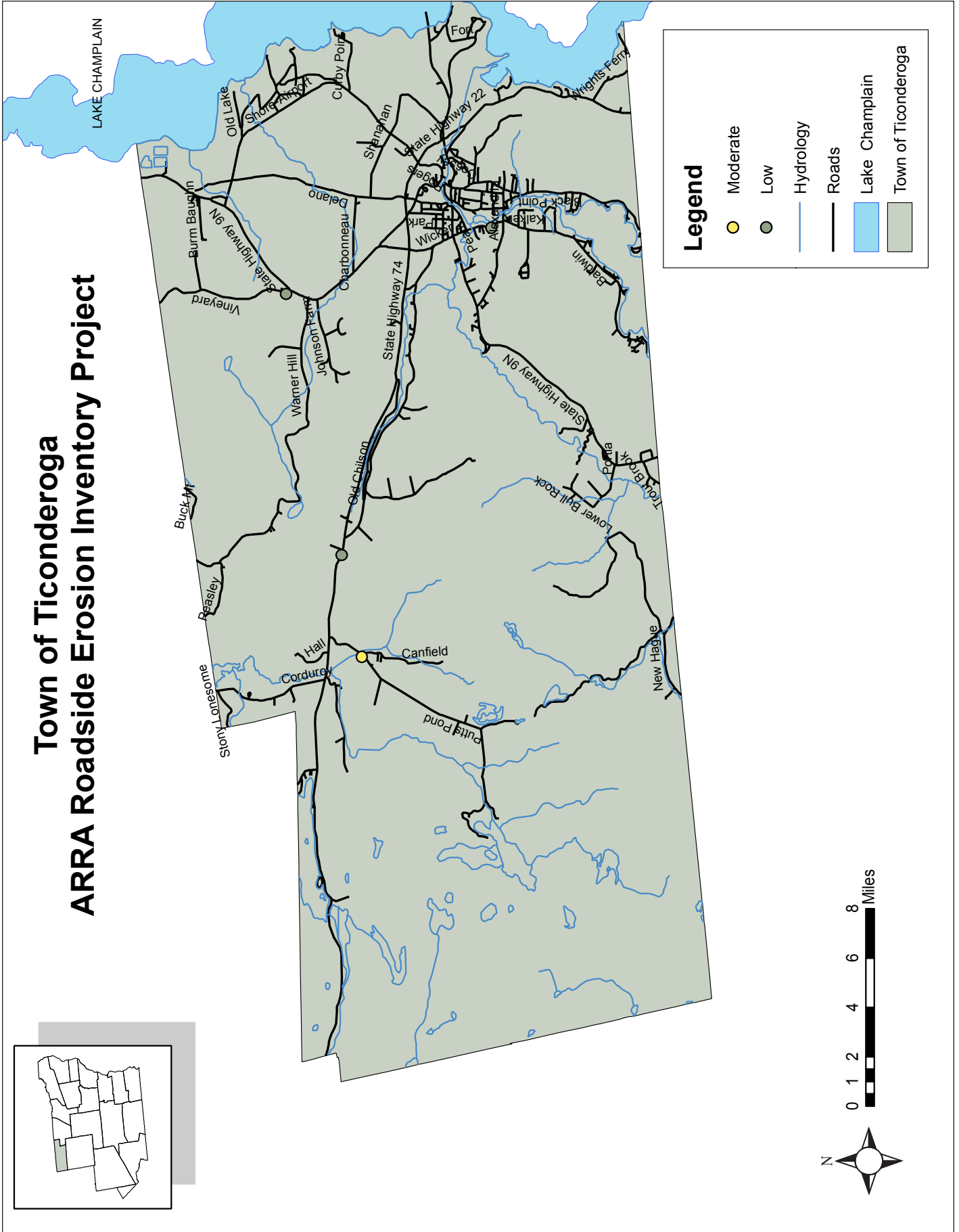
Town of St Armand ARRA Roadside Erosion Inventory Project

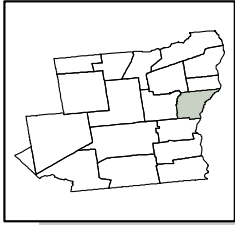


Legend

- High
- Moderate
- Hydrology
- Roads
- Town of St Armand

Town of Ticonderoga ARRA Roadside Erosion Inventory Project



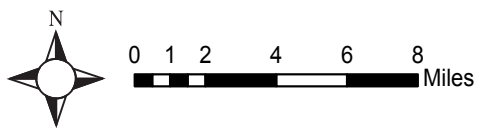


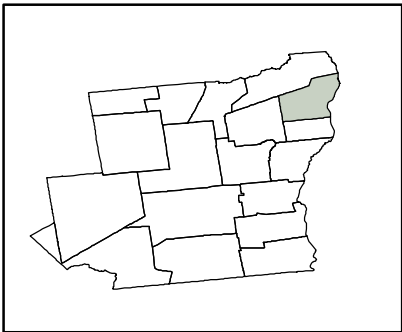
Town of Westport ARRA Roadside Erosion Inventory Project



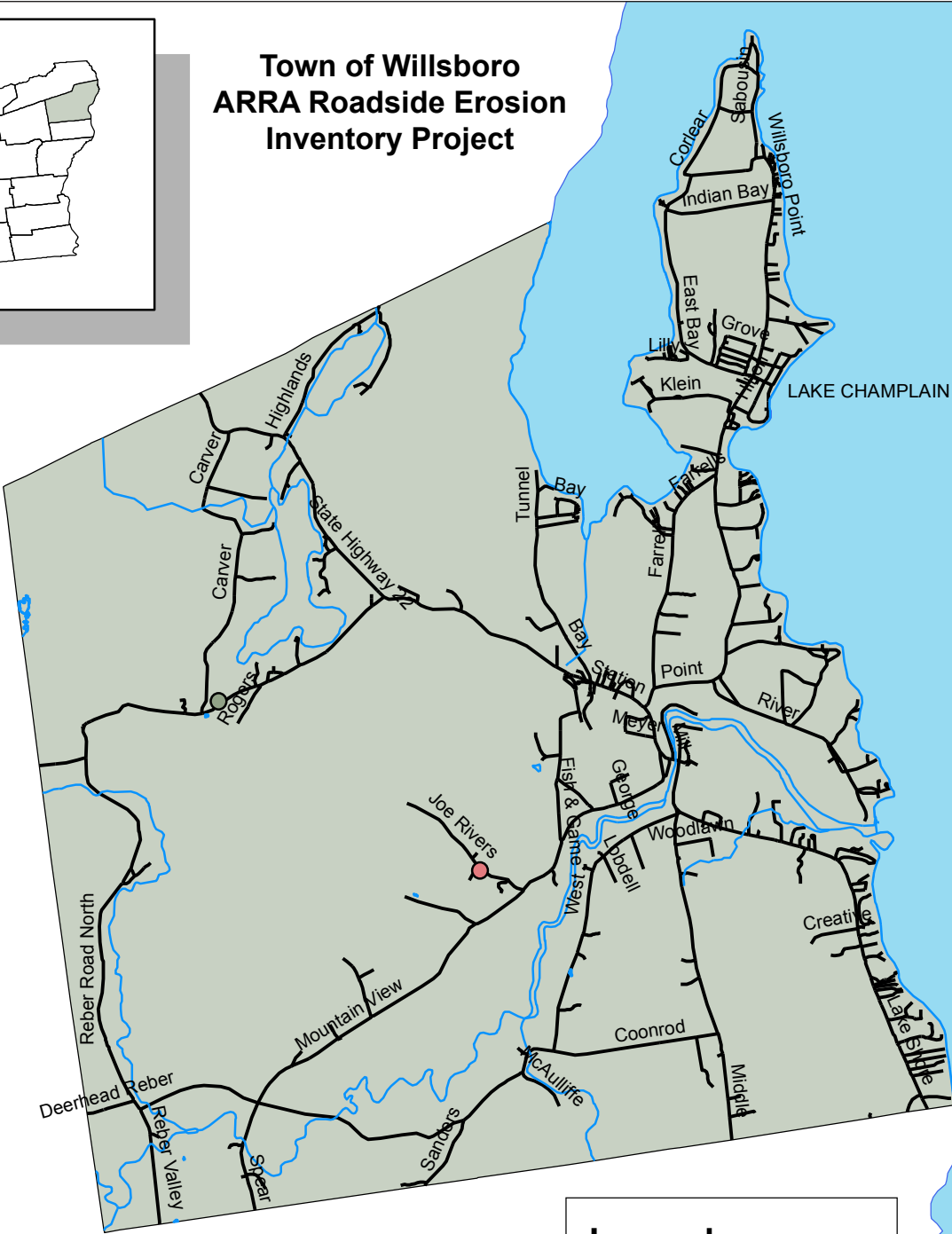
Legend

- High
- Moderate
- Low
- Hydrology
- Roads
- Lake Champlain
- Town of Westport



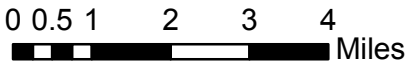


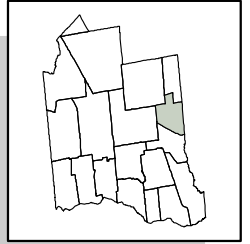
**Town of Willsboro
ARRA Roadside Erosion
Inventory Project**



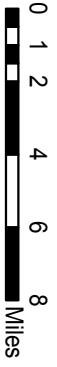
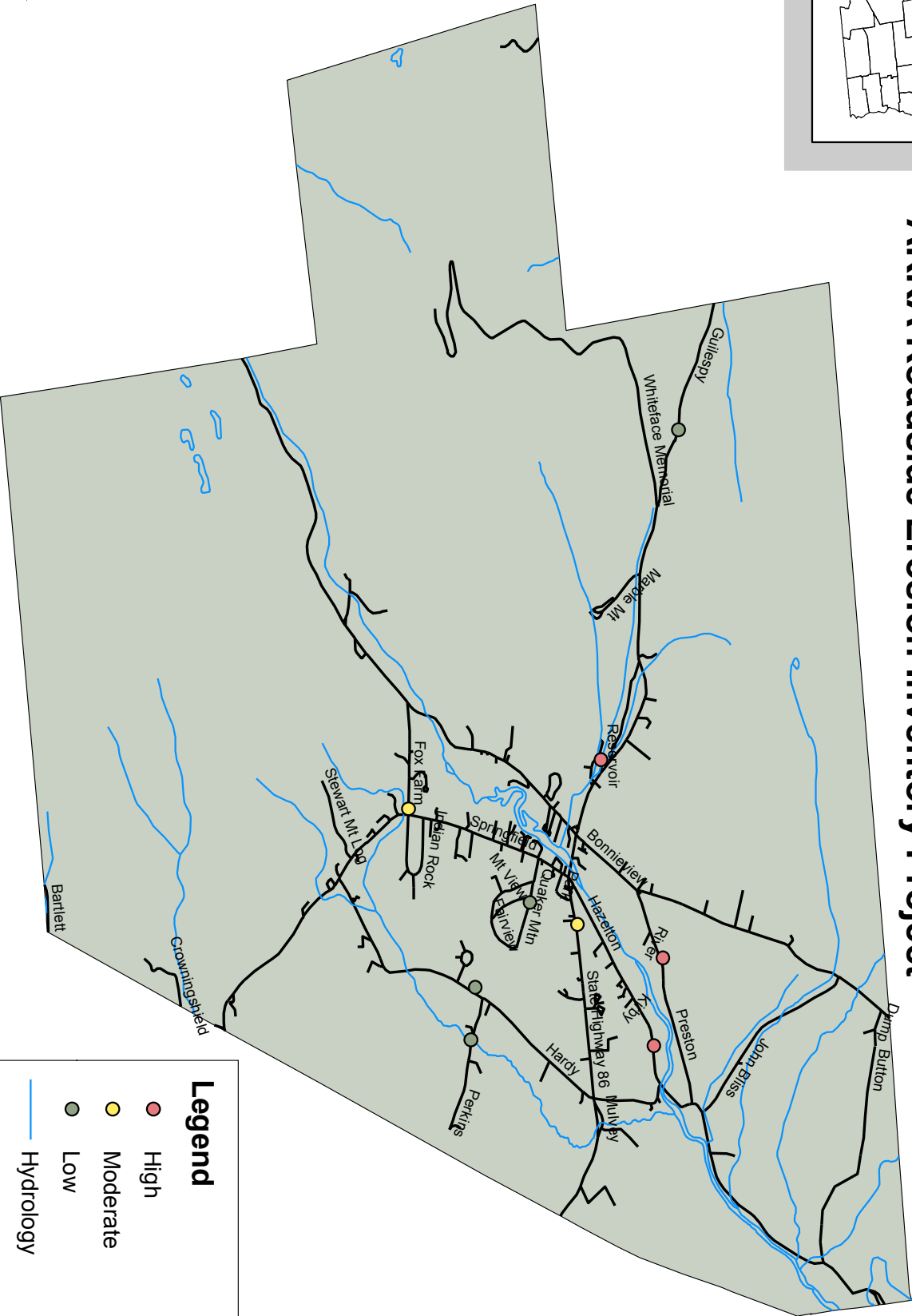
Legend

- High
- Low
- Hydrology
- Roads
- Lake Champlain
- Town of Willsboro

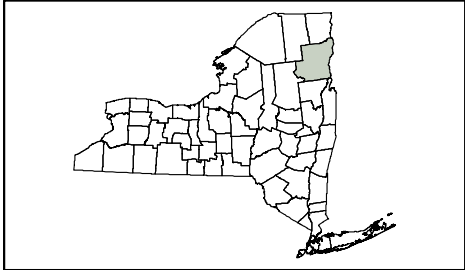




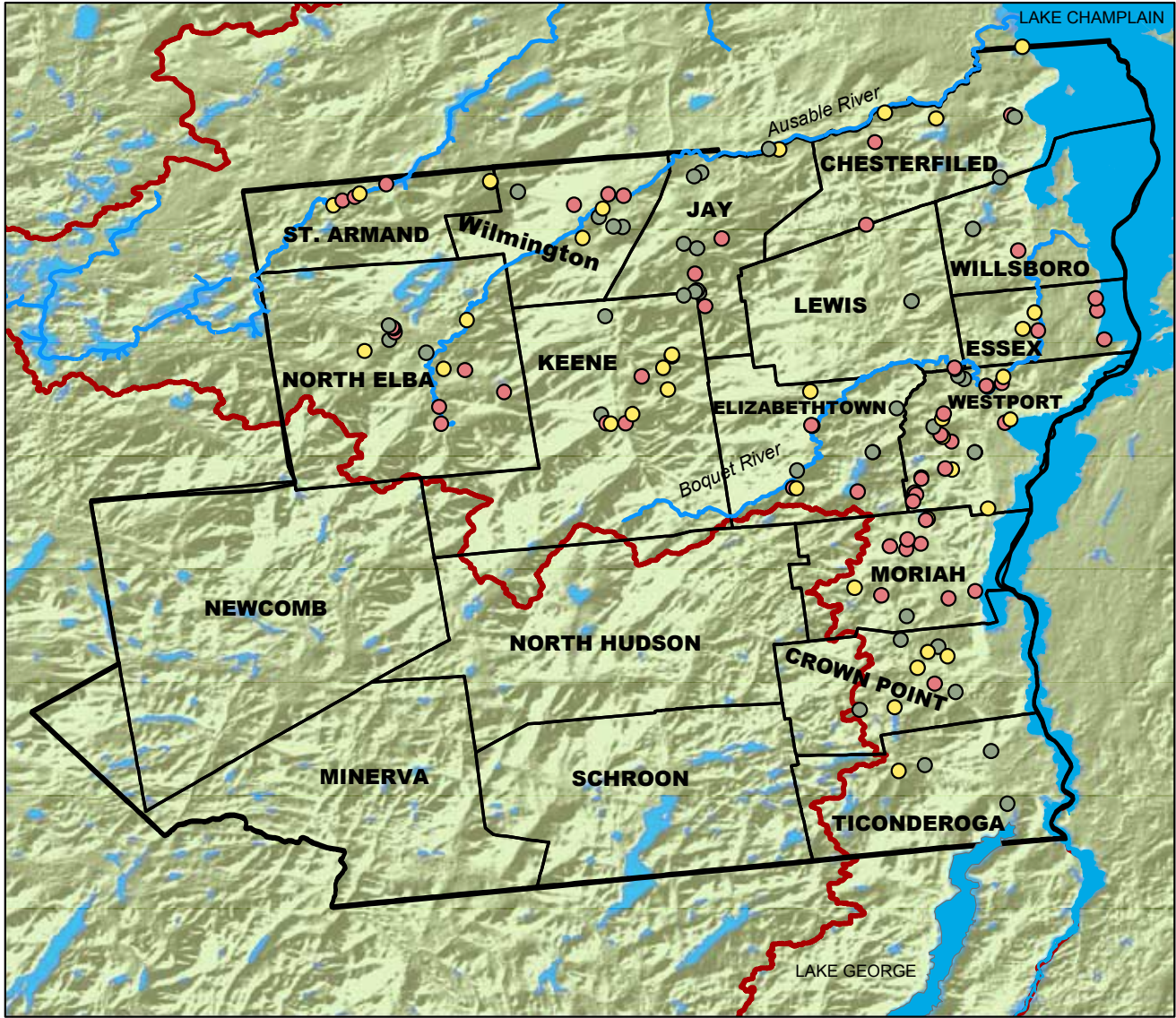
Town of Wilmington ARRA Roadside Erosion Inventory Project



| Legend | |
|---------------------------------------|--------------------|
| ● | High |
| ● | Moderate |
| ● | Low |
| | Hydrology |
| | Roads |
| | Town of Wilmington |



**American Recovery and Reinvestment Act
Roadside Erosion Inventory Project
Essex County, New York**



Legend

| | |
|----------------------------|--------------------------|
| Site Ranking | Essex County |
| High | Essex County Towns |
| Moderate | Lake Champlain Watershed |
| Low | Major Rivers |
| Elevation in meters | Lake/Pond |
| High : 255 | |
| Low : 0 | |

FRANKLIN COUNTY

LAKE CLEAR

PHOTO COURTESY OF FRANKLIN COUNTY SWCD

The towns of Brighton, Franklin, Harrietstown and Santa Clara, located in the southeast corner of Franklin County, make up the western-most extent of the Lake Champlain Watershed. The largest population center in that area, the Village of Saranac Lake, is encompassed by the Town of Harrietstown. Within this small, rural drainage area is a large network of rural roads that connect the hamlets and residential properties. Land use in this portion of the watershed is predominately horticulture and logging, cash crops, and a growing number of hobby farms.

The topography of the area is steep and very mountainous with lakes, ponds and wetlands occupying the narrow valleys and sinks. The soils consist primarily of glacial till, well drained sand and gravel deposits. The sands and gravels in this area are relatively sterile soils and have great difficulty re-vegetating once disturbed. The only tributary to Lake Champlain from Franklin County is the Saranac River,

which originates from several source lakes and ponds in the Adirondack Mountains. The river flows easterly through the Village of Saranac Lake and across the county border into Clinton County, where it continues until it discharges into Lake Champlain in the City of Plattsburgh.

In total, 89 roadside erosion sites were identified in Franklin County; 14 High Priority, 13 Moderate Priority and 62 Low Priority. The majority of the roadside erosion sites were identified within the Towns of Franklin (56) and Harrietstown (26). Remediation practices for these sites include hydroseeding with various seed mixes and soil amendments as well as installing additional erosion control best management practices. Corrective actions for the sites range in price from \$200 to \$2,000 each, with an overall total cost to remediate all the sites of \$72,700.




FRANKLIN COUNTY SITES




TOWN | MAJOR SUBWATERSHEDS | ROADS

| Town | Number of Sites per Priority | | | Percentage of sites in County |
|--------------|------------------------------|----------|-----|-------------------------------|
| | High | Moderate | Low | |
| Brighton | 0 | 1 | 2 | 3% |
| Franklin | 11 | 10 | 35 | 64% |
| Harrietstown | 3 | 2 | 21 | 29% |
| Santa Clara | 0 | 0 | 4 | 4% |

| Major Subwatershed | Number of Sites per Priority | | | Percentage of sites in County |
|--------------------|------------------------------|----------|-----|-------------------------------|
| | High | Moderate | Low | |
| Saranac River | 14 | 13 | 62 | 100% |

| Road Jurisdiction | Number of Sites per Priority | | | Percentage of sites in County |
|----------------------|------------------------------|----------|-----|-------------------------------|
| | High | Moderate | Low | |
| State Roads | 0 | 0 | 10 | 11% |
| County Roads | 4 | 2 | 12 | 20% |
| Town Roads | 9 | 10 | 40 | 67% |
| Private Roads | 1 | 0 | 0 | 1% |
| Unknown Jurisdiction | 0 | 1 | 0 | 1% |

| IDENTIFICATION #6241130 | | IDENTIFICATION #6241117 | |
|--|---|--|---|
| Town Brighton |  | Town Brighton |  |
| Road Name | Clark Wardner | Road Name | Clark Wardner |
| Jurisdiction | Town | Jurisdiction | Town |
| Watershed | Saranac River | Watershed | Saranac River |
| Direct connection to water | Yes - Culvert | Direct connection to water | No |
| % of Vegetation | 50 | % of Vegetation | 50 |
| Bank Slope | Moderate | Bank Slope | Low |
| Level of Erosion | Moderate | Level of Erosion | Moderate |
| Length of Erosion (ft) | 40 | Length of Erosion (ft) | 15 |
| Width of Erosion (ft) | 5 | Width of Erosion (ft) | 10 |
| Total Area of Erosion (ft ²) | 200 | Total Area of Erosion (ft ²) | 150 |
| Soil Type | Loamy sand | Soil Type | Sandy |
| Management Recommendations | Remove leaves and hydroseed with tackifier | Management Recommendations | Hydroseed with conservation mix |
| Cost | \$300 - \$500 | Cost | \$200 - \$300 |
| Total Points | 35 | Total Points | 21 |
| Rank | Moderate | Rank | Low |
| IDENTIFICATION #6241121 | | IDENTIFICATION #681017 | |
| Town Brighton |  | Town Franklin |  |
| Road Name | Clark Wardner | Road Name | French Road |
| Jurisdiction | Town | Jurisdiction | Town |
| Watershed | Saranac River | Watershed | Saranac River |
| Direct connection to water | No | Direct connection to water | Unknown |
| % of Vegetation | 50 | % of Vegetation | 20 |
| Bank Slope | Moderate | Bank Slope | Moderate |
| Level of Erosion | Moderate | Level of Erosion | Moderate |
| Length of Erosion (ft) | 20 | Length of Erosion (ft) | 400 |
| Width of Erosion (ft) | 10 | Width of Erosion (ft) | 5 |
| Total Area of Erosion (ft ²) | 200 | Total Area of Erosion (ft ²) | 2000 |
| Soil Type | Sandy | Soil Type | Loamy sand |
| Management Recommendations | Hydroseed with conservation mix and tackifier | Management Recommendations | Install erosion control mats and hydroseed with tackifier |
| Cost | \$300 - \$500 | Cost | \$1000 - \$2000 |
| Total Points | 25 | Total Points | 40 |
| Rank | Low | Rank | High |

| IDENTIFICATION #681237 | | IDENTIFICATION #68148 | |
|--|---|--|---|
| Town Franklin |  | Town Franklin |  |
| Road Name | Plank Road | Road Name | Franklin Falls Road |
| Jurisdiction | Town | Jurisdiction | County |
| Watershed | Saranac River | Watershed | Saranac River |
| Direct connection to water | Yes - Stream | Direct connection to water | Yes - Other |
| % of Vegetation | 10 | % of Vegetation | 50 |
| Bank Slope | Steep | Bank Slope | Moderate |
| Level of Erosion | High | Level of Erosion | Low |
| Length of Erosion (ft) | 20 | Length of Erosion (ft) | 200 |
| Width of Erosion (ft) | 10 | Width of Erosion (ft) | 10 |
| Total Area of Erosion (ft ²) | 200 | Total Area of Erosion (ft ²) | 2000 |
| Soil Type | Loam | Soil Type | Loam |
| Management Recommendations | Install erosion control mats and hydroseed with tackifier | Management Recommendations | Hydroseed with conservation mix and tackifier |
| Cost | \$1000 - \$2000 | Cost | \$300 - \$500 |
| Total Points | 50 | Total Points | 41 |
| Rank | High | Rank | High |
| IDENTIFICATION #6101001 | | IDENTIFICATION #6101004 | |
| Town Franklin |  | Town Franklin |  |
| Road Name | Blue Spruce Road | Road Name | Blue Spruce Road |
| Jurisdiction | Town | Jurisdiction | Town |
| Watershed | Saranac River | Watershed | Saranac River |
| Direct connection to water | Yes - Stream | Direct connection to water | Yes - Other |
| % of Vegetation | 20 | % of Vegetation | 5 |
| Bank Slope | Steep | Bank Slope | Steep |
| Level of Erosion | High | Level of Erosion | High |
| Length of Erosion (ft) | 50 | Length of Erosion (ft) | 75 |
| Width of Erosion (ft) | 15 | Width of Erosion (ft) | 6 |
| Total Area of Erosion (ft ²) | 750 | Total Area of Erosion (ft ²) | 450 |
| Soil Type | Sandy gravel | Soil Type | Sandy gravel |
| Management Recommendations | Install erosion control mats and hydroseed with tackifier | Management Recommendations | Install erosion control mats and hydroseed with tackifier |
| Cost | \$1200 - \$2000 | Cost | \$1200 - \$2000 |
| Total Points | 50 | Total Points | 50 |
| Rank | High | Rank | High |

IDENTIFICATION #6101008

Town
Franklin

Road Name Blue Spruce Road

Jurisdiction Town

Watershed Saranac River



Direct connection to water Unknown

% of Vegetation 0

Bank Slope Steep

Level of Erosion High

Length of Erosion (ft) 150

Width of Erosion (ft) 8

Total Area of Erosion (ft²) 1200

Soil Type Sandy gravel

Management Recommendations Install erosion control mats and hydroseed with tackifier

Cost \$1200 - \$2000

Total Points 40

Rank High

IDENTIFICATION #6101131

Town
Franklin

Road Name Merrill Road

Jurisdiction Town

Watershed Saranac River



Direct connection to water Yes - Stream

% of Vegetation 20

Bank Slope Steep

Level of Erosion High

Length of Erosion (ft) 200

Width of Erosion (ft) 10

Total Area of Erosion (ft²) 2000

Soil Type Sandy loam

Management Recommendations Install erosion control mats and hydroseed with tackifier

Cost \$1200 - \$2000

Total Points 60

Rank High

IDENTIFICATION #6101144

Town
Franklin

Road Name Thatcherville Road

Jurisdiction Town

Watershed Saranac River



Direct connection to water Unknown

% of Vegetation 30

Bank Slope Moderate

Level of Erosion High

Length of Erosion (ft) 100

Width of Erosion (ft) 30

Total Area of Erosion (ft²) 3000

Soil Type Gravelly sand

Management Recommendations Install erosion control mats and hydroseed with tackifier

Cost \$1200 - \$2000

Total Points 40

Rank High

IDENTIFICATION #6101203

Town
FranklinRoad Name Kushaqu Mud
Pond Road

Jurisdiction Town

Watershed Saranac River



Direct connection to water Yes - Stream

% of Vegetation 70

Bank Slope Steep

Level of Erosion High

Length of Erosion (ft) 30

Width of Erosion (ft) 10

Total Area of Erosion (ft²) 300

Soil Type Gravelly sand

Management Recommendations Install erosion control mats and hydroseed with tackifier

Cost \$1200 - \$2000

Total Points 40

Rank High

| IDENTIFICATION #610924 | | IDENTIFICATION #610933 | |
|--|---|--|---|
| Town Franklin |  | Town Franklin |  |
| Road Name | County Route 26 | Road Name | Bass Lake Road |
| Jurisdiction | County | Jurisdiction | Private |
| Watershed | Saranac River | Watershed | Saranac River |
| Direct connection to water | Yes - Other | Direct connection to water | Yes - Other |
| % of Vegetation | 70 | % of Vegetation | 40 |
| Bank Slope | Moderate | Bank Slope | Steep |
| Level of Erosion | Moderate | Level of Erosion | High |
| Length of Erosion (ft) | 400 | Length of Erosion (ft) | 200 |
| Width of Erosion (ft) | 7 | Width of Erosion (ft) | 4 |
| Total Area of Erosion (ft ²) | 2800 | Total Area of Erosion (ft ²) | 800 |
| Soil Type | Gravelly sand | Soil Type | Gravelly sand |
| Management Recommendations | Install erosion control mats and hydroseed with tackifier | Management Recommendations | Install erosion control mats and hydroseed with tackifier |
| Cost | \$1000 - \$2000 | Cost | \$1200 - \$2000 |
| Total Points | 40 | Total Points | 45 |
| Rank | High | Rank | High |
| IDENTIFICATION #681022 | | IDENTIFICATION #6101127 | |
| Town Franklin |  | Town Franklin |  |
| Road Name | French Road | Road Name | Merril Road |
| Jurisdiction | Town | Jurisdiction | Town |
| Watershed | Saranac River | Watershed | Saranac River |
| Direct connection to water | Unknown | Direct connection to water | Unknown |
| % of Vegetation | 10 | % of Vegetation | 80 |
| Bank Slope | Steep | Bank Slope | Moderate |
| Level of Erosion | Moderate | Level of Erosion | High |
| Length of Erosion (ft) | 150 | Length of Erosion (ft) | 300 |
| Width of Erosion (ft) | 7 | Width of Erosion (ft) | 7 |
| Total Area of Erosion (ft ²) | 1050 | Total Area of Erosion (ft ²) | 2100 |
| Soil Type | Loamy sand | Soil Type | Sandy gravel |
| Management Recommendations | Install erosion control mats and hydroseed with tackifier | Management Recommendations | Add top soil and hydroseed with conservation mix and tackifier |
| Cost | \$1000 - \$2000 | Cost | \$1000 - \$1500 |
| Total Points | 35 | Total Points | 31 |
| Rank | Moderate | Rank | Moderate |

IDENTIFICATION #681102

Town
Franklin

Road Name Alderbrook Road

Jurisdiction Town

Watershed Saranac River



IDENTIFICATION #681114

Town
Franklin

Road Name Alderbrook Road

Jurisdiction Town

Watershed Saranac River



Direct connection to water Unknown

% of Vegetation 10

Bank Slope Low

Level of Erosion Low

Length of Erosion (ft) 500

Width of Erosion (ft) 6

Total Area of Erosion (ft²) 3000

Soil Type Sandy loam

Management Recommendations Hydroseed with conservation mix and tackifier

Cost \$300 - \$500

Total Points 32

Rank Moderate

Direct connection to water Yes - Other

% of Vegetation 40

Bank Slope Low

Level of Erosion Low

Length of Erosion (ft) 200

Width of Erosion (ft) 10

Total Area of Erosion (ft²) 2000

Soil Type Sandy loam

Management Recommendations Hydroseed with conservation mix and tackifier

Cost \$500 - \$700

Total Points 37

Rank Moderate

IDENTIFICATION #68110

Town
Franklin

Road Name Plank Road

Jurisdiction Town

Watershed Saranac River



IDENTIFICATION #610950

Town
Franklin

Road Name Garden Road

Jurisdiction Town

Watershed Saranac River



Direct connection to water Yes - Stream

% of Vegetation 40

Bank Slope Moderate

Level of Erosion Moderate

Length of Erosion (ft) 20

Width of Erosion (ft) 6

Total Area of Erosion (ft²) 120

Soil Type Sandy loam

Management Recommendations Hydroseed with conservation mix and tackifier

Cost \$500 - \$700

Total Points 35

Rank Moderate

Direct connection to water Unknown

% of Vegetation 0

Bank Slope Moderate

Level of Erosion High

Length of Erosion (ft) 50

Width of Erosion (ft) 7

Total Area of Erosion (ft²) 350

Soil Type Gravelly sand



Management Recommendations Hydroseed with conservation mix and tackifier

Cost \$500 - \$700



Total Points 35

Rank Moderate

| | |
|-------------------------------|--------------------------------|
| IDENTIFICATION #610939 | IDENTIFICATION #6101149 |
|-------------------------------|--------------------------------|

| | | | |
|--|---|--|---|
| Town Franklin |  | Town Franklin |  |
| Road Name County Route 26 | | Road Name Thatcherville Road | |
| Jurisdiction County | | Jurisdiction Town | |
| Watershed Saranac River | | Watershed Saranac River | |
| Direct connection to water | Yes - Other | Direct connection to water | |
| % of Vegetation | 80 | % of Vegetation | 50 |
| Bank Slope | Moderate | Bank Slope | Moderate |
| Level of Erosion | Moderate | Level of Erosion | Moderate |
| Length of Erosion (ft) | 200 | Length of Erosion (ft) | 200 |
| Width of Erosion (ft) | 15 | Width of Erosion (ft) | 20 |
| Total Area of Erosion (ft ²) | 3000 | Total Area of Erosion (ft ²) | 4000 |
| Soil Type | Gravelly sand | Soil Type | Gravelly sand |
| Management Recommendations | Hydroseed with conservation mix and tackifier | Management Recommendations | Install erosion control mats and hydroseed with tackifier |
| Cost | \$400 - \$600 | Cost | \$1200 - \$2000 |
| Total Points | 36 | Total Points | 35 |
| Rank | Moderate | Rank | Moderate |

| | |
|--------------------------------|--------------------------------|
| IDENTIFICATION #6101029 | IDENTIFICATION #6101039 |
|--------------------------------|--------------------------------|

| | | | |
|--|---|--|---|
| Town Franklin |  | Town Franklin |  |
| Road Name Thatcherville Road | | Road Name Thatcherville Road | |
| Jurisdiction Town | | Jurisdiction Town | |
| Watershed Saranac River | | Watershed Saranac River | |
| Direct connection to water | Yes - Stream | Direct connection to water | Yes - Stream |
| % of Vegetation | 30 | % of Vegetation | 80 |
| Bank Slope | Steep | Bank Slope | Steep |
| Level of Erosion | Moderate | Level of Erosion | Moderate |
| Length of Erosion (ft) | 50 | Length of Erosion (ft) | 5 |
| Width of Erosion (ft) | 30 | Width of Erosion (ft) | 4 |
| Total Area of Erosion (ft ²) | 1500 | Total Area of Erosion (ft ²) | 20 |
| Soil Type | Sandy loam | Soil Type | Sandy loam |
| Management Recommendations | Install erosion control mats and hydroseed with tackifier | Management Recommendations | Install erosion control mats and hydroseed with tackifier |
| Cost | \$1200 - \$2000 | Cost | \$1000 |
| Total Points | 40 | Total Points | 31 |
| Rank | Moderate | Rank | Moderate |

Town of Franklin

IDENTIFICATION #6241148

| | | | | | | | |
|-----------------------------|---|--------------|------------------------|-----------------------|--|-----------|--|
| Road Name | Gabriels - Onchiota Road | Jurisdiction | County | Watershed | Saranac River | | |
| Direct connection to Water? | %Vegetation | Bank Slope | Length of Erosion (ft) | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | |
| No | 75 | Low | 20 | 4 | 80 | Sandy | |
| Management Recommendation | Hydroseeded with conservation mix and tackifier | | | | | | |
| Total Points | 12 | | | | | | |
| Rank | | | | | | | |
| Low | | | | | | | |

Town of Franklin

IDENTIFICATION #6241151

| | | | | | | | |
|-----------------------------|----------------------------|--------------|------------------------|-----------------------|--|-----------|--|
| Road Name | Gabriels - Onchiota Road | Jurisdiction | County | Watershed | Saranac River | | |
| Direct connection to Water? | %Vegetation | Bank Slope | Length of Erosion (ft) | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | |
| No | 30 | Moderate | 200 | 6 | 1200 | Sandy | |
| Management Recommendation | Hydroseeded with tackifier | | | | | | |
| Total Points | 21 | | | | | | |
| Rank | | | | | | | |
| Low | | | | | | | |

Town of Franklin

IDENTIFICATION #6241156

| | | | | | | | |
|-----------------------------|---|--------------|------------------------|-----------------------|--|------------|--|
| Road Name | Gabriels - Onchiota Road | Jurisdiction | County | Watershed | Saranac River | | |
| Direct connection to Water? | %Vegetation | Bank Slope | Length of Erosion (ft) | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | |
| No | 50 | Low | 15 | 5 | 75 | Loamy sand | |
| Management Recommendation | Hydroseeded with conservation mix and tackifier | | | | | | |
| Total Points | 17 | | | | | | |
| Rank | | | | | | | |
| Low | | | | | | | |

Town of Franklin

IDENTIFICATION #6241200

| | | | | | | | |
|-----------------------------|---|--------------|------------------------|-----------------------|--|-----------|--|
| Road Name | Gabriels - Onchiota Road | Jurisdiction | County | Watershed | Saranac River | | |
| Direct connection to Water? | %Vegetation | Bank Slope | Length of Erosion (ft) | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | |
| No | 75 | Steep | 50 | 10 | 500 | Sandy | |
| Management Recommendation | Hydroseeded with conservation mix and tackifier | | | | | | |
| Total Points | 25 | | | | | | |
| Rank | | | | | | | |
| Low | | | | | | | |

Town of Franklin

IDENTIFICATION #6101234

| | | | | | | | |
|-----------------------------|-----------------------------------|--------------|------------------------|-----------------------|--|-----------|--|
| Road Name | Gabriels - Onchiota Road | Jurisdiction | County | Watershed | Saranac River | | |
| Direct connection to Water? | %Vegetation | Bank Slope | Length of Erosion (ft) | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | |
| Unknown | 70 | Low | 300 | 4 | 1200 | Sandy | |
| Management Recommendation | Hydroseeded with conservation mix | | | | | | |
| Total Points | 12 | | | | | | |
| Rank | | | | | | | |
| Low | | | | | | | |

Town of Franklin

IDENTIFICATION #681005

| | | | | | | | |
|-----------------------------|---|--------------|------------------------|-----------------------|--|-----------|--|
| Road Name | French Road | Jurisdiction | Town | Watershed | Saranac River | | |
| Direct connection to Water? | %Vegetation | Bank Slope | Length of Erosion (ft) | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | |
| Unknown | 60 | Moderate | 200 | 8 | 1600 | Loam | |
| Management Recommendation | Hydroseeded with conservation mix and tackifier | | | | | | |
| Total Points | 21 | | | | | | |
| Rank | | | | | | | |
| Low | | | | | | | |

TOWN OF FRANKLIN

| TOWN OF FRANKLIN | | | | | | | | | | IDENTIFICATION #681011 | | |
|-----------------------------|---|----|--------------|------------------|-------|-----------|-----------------------|--|------------|-------------------------|------|---------------|
| Town of Franklin | | | | | | | | | | Saranac River | | |
| Road Name | French Road | | Jurisdiction | Level of Erosion | Town | Watershed | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | | | |
| Direct connection to Water? | % Vegetation | 40 | Low | 150 | 5 | 750 | | | Loamy sand | | | |
| Unknown | | | | | | | | | | | | |
| Management Recommendation | Hydroseed with conservation mix | | | | | | | | | | Cost | \$200 - \$400 |
| Total Points | 17 | | | | | | | | | | Rank | Low |
| Town of Franklin | | | | | | | | | | IDENTIFICATION #681029 | | |
| Town of Franklin | | | | | | | | | | Saranac River | | |
| Road Name | State Route 3 | | Jurisdiction | Level of Erosion | State | Watershed | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | | | |
| Direct connection to Water? | % Vegetation | 40 | Low | 30 | 10 | 300 | | | Loamy sand | | | |
| Yes - Culvert | | | | | | | | | | | | |
| Management Recommendation | Hydroseed with conservation mix | | | | | | | | | | Cost | \$200 - \$300 |
| Total Points | 27 | | | | | | | | | | Rank | Low |
| Town of Franklin | | | | | | | | | | IDENTIFICATION #681039 | | |
| Town of Franklin | | | | | | | | | | Saranac River | | |
| Road Name | State Route 3 | | Jurisdiction | Level of Erosion | State | Watershed | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | | | |
| Direct connection to Water? | % Vegetation | 95 | Low | 200 | 12 | 2400 | | | Loamy sand | | | |
| Yes - Stream | | | | | | | | | | | | |
| Management Recommendation | Hydroseed with conservation mix | | | | | | | | | | Cost | \$200 - \$300 |
| Total Points | 28 | | | | | | | | | | Rank | Low |
| Town of Franklin | | | | | | | | | | IDENTIFICATION #6810460 | | |
| Town of Franklin | | | | | | | | | | Saranac River | | |
| Road Name | State Route 3 | | Jurisdiction | Level of Erosion | State | Watershed | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | | | |
| Direct connection to Water? | % Vegetation | 95 | Moderate | 300 | 10 | 3000 | | | Sandy Loam | | | |
| Unknown | | | | | | | | | | | | |
| Management Recommendation | Hydroseed with conservation mix and tackifier | | | | | | | | | | Cost | \$600 - \$800 |
| Total Points | 22 | | | | | | | | | | Rank | Low |
| Town of Franklin | | | | | | | | | | IDENTIFICATION #681128 | | |
| Town of Franklin | | | | | | | | | | Saranac River | | |
| Road Name | State Route 3 | | Jurisdiction | Level of Erosion | State | Watershed | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | | | |
| Direct connection to Water? | % Vegetation | 90 | Low | 300 | 12 | 3600 | | | Sandy loam | | | |
| Unknown | | | | | | | | | | | | |
| Management Recommendation | Hydroseed with conservation mix | | | | | | | | | | Cost | \$200 - \$300 |
| Total Points | 18 | | | | | | | | | | Rank | Low |
| Town of Franklin | | | | | | | | | | IDENTIFICATION #68244 | | |
| Town of Franklin | | | | | | | | | | Saranac River | | |
| Road Name | State Route 3 | | Jurisdiction | Level of Erosion | State | Watershed | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | | | |
| Direct connection to Water? | % Vegetation | 40 | Low | 300 | 5 | 1500 | | | Sandy loam | | | |
| Unknown | | | | | | | | | | | | |
| Management Recommendation | Add topsoil and hydroseed with conservation mix | | | | | | | | | | Cost | \$400 - \$600 |
| Total Points | 17 | | | | | | | | | | Rank | Low |

| Town of Franklin | | | | | | | | | | IDENTIFICATION #681058 |
|-----------------------------|---|--------------|------------------|------------------------|-----------------------|--|-----------|--|--|------------------------|
| Road Name | Alderbrook Road | Jurisdiction | Town | Watershed | Saranac River | | | | | |
| Direct connection to Water? | % Vegetation | Bank Slope | Level of Erosion | Length of Erosion (ft) | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | | | |
| Unknown | 10 | Low | Low | 250 | 4 | 1000 | Bouldery | | | |
| Management Recommendation | Add topsoil and hydroseed with conservation mix | | | | | | | | | Cost \$400 - \$600 |
| Total Points | 17 | | | | | | | | | Rank Low |
| Town of Franklin | | | | | | | | | | IDENTIFICATION #681135 |
| Road Name | Alderbrook Road | Jurisdiction | Town | Watershed | Saranac River | | | | | |
| Direct connection to Water? | % Vegetation | Bank Slope | Level of Erosion | Length of Erosion (ft) | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | | | |
| Unknown | 40 | Moderate | Low | 75 | 10 | 750 | Loamy | | | |
| Management Recommendation | Hydroseed with conservation mix and tackifier | | | | | | | | | Cost \$300 - \$500 |
| Total Points | 21 | | | | | | | | | Rank Low |
| Town of Franklin | | | | | | | | | | IDENTIFICATION #681140 |
| Road Name | Alderbrook Road | Jurisdiction | Town | Watershed | Saranac River | | | | | |
| Direct connection to Water? | % Vegetation | Bank Slope | Level of Erosion | Length of Erosion (ft) | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | | | |
| Unknown | 75 | Low | Low | 150 | 10 | 1500 | Loamy | | | |
| Management Recommendation | Hydroseed with conservation mix | | | | | | | | | Cost \$200 - \$300 |
| Total Points | 8 | | | | | | | | | Rank Low |
| Town of Franklin | | | | | | | | | | IDENTIFICATION #681150 |
| Road Name | Rock Street | Jurisdiction | Town | Watershed | Saranac River | | | | | |
| Direct connection to Water? | % Vegetation | Bank Slope | Level of Erosion | Length of Erosion (ft) | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | | | |
| Unknown | 60 | Low | Low | 250 | 5 | 1250 | Loamy | | | |
| Management Recommendation | Hydroseed with conservation mix | | | | | | | | | Cost \$200 - \$300 |
| Total Points | 12 | | | | | | | | | Rank Low |
| Town of Franklin | | | | | | | | | | IDENTIFICATION #681156 |
| Road Name | Rock Street | Jurisdiction | Town | Watershed | Saranac River | | | | | |
| Direct connection to Water? | % Vegetation | Bank Slope | Level of Erosion | Length of Erosion (ft) | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | | | |
| Unknown | 75 | Moderate | Low | 300 | 8 | 2400 | Loamy | | | |
| Management Recommendation | Hydroseed with conservation mix and tackifier | | | | | | | | | Cost \$300 - \$500 |
| Total Points | 26 | | | | | | | | | Rank Low |
| Town of Franklin | | | | | | | | | | IDENTIFICATION #681200 |
| Road Name | Rock Street | Jurisdiction | Town | Watershed | Saranac River | | | | | |
| Direct connection to Water? | % Vegetation | Bank Slope | Level of Erosion | Length of Erosion (ft) | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | | | |
| Unknown | 80 | Low | Low | 500 | 9 | 4500 | Loamy | | | |
| Management Recommendation | Hydroseed with conservation mix | | | | | | | | | Cost \$200 - \$300 |
| Total Points | 18 | | | | | | | | | Rank Low |

TOWN OF FRANKLIN

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| Town of Franklin | | | | | | | IDENTIFICATION #681206 | |
|-----------------------------|---|--------------|------------------------|-----------------------|--|------------|------------------------|---------------|
| Road Name | Rock Street | Jurisdiction | Town | Watershed | Saranac River | | | |
| Direct connection to Water? | % Vegetation | Bank Slope | Length of Erosion (ft) | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | | |
| Unknown | 60 | Moderate | 400 | 4 | 1600 | Loamy | | |
| Management Recommendation | Hydroseed with conservation mix and tackifier | | | | | | Cost | \$300 - \$500 |
| Total Points | 25 | | Rank | | Low | | | |
| Town of Franklin | | | | | | | IDENTIFICATION #681219 | |
| Road Name | River Road | Jurisdiction | County | Watershed | Saranac River | | | |
| Direct connection to Water? | % Vegetation | Bank Slope | Length of Erosion (ft) | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | | |
| Unknown | 65 | Moderate | 250 | 5 | 1250 | Sandy loam | | |
| Management Recommendation | Hydroseed with conservation mix and tackifier | | | | | | Cost | \$300 - \$500 |
| Total Points | 16 | | Rank | | Low | | | |
| Town of Franklin | | | | | | | IDENTIFICATION #681226 | |
| Road Name | Franklin Falls Road | Jurisdiction | County | Watershed | Saranac River | | | |
| Direct connection to Water? | % Vegetation | Bank Slope | Length of Erosion (ft) | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | | |
| Yes - Other | 90 | Moderate | 100 | 10 | 1000 | Loamy | | |
| Management Recommendation | Hydroseed with conservation mix and tackifier | | | | | | Cost | \$300 - \$500 |
| Total Points | 26 | | Rank | | Low | | | |
| Town of Franklin | | | | | | | IDENTIFICATION #68120 | |
| Road Name | Franklin Falls Road | Jurisdiction | County | Watershed | Saranac River | | | |
| Direct connection to Water? | % Vegetation | Bank Slope | Length of Erosion (ft) | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | | |
| Unknown | 98 | Moderate | 300 | 8 | 2400 | Loamy | | |
| Management Recommendation | Hydroseed with conservation mix and tackifier | | | | | | Cost | \$300 - \$500 |
| Total Points | 26 | | Rank | | Low | | | |
| Town of Franklin | | | | | | | IDENTIFICATION #68201 | |
| Road Name | Fletcher Farm Road | Jurisdiction | Town | Watershed | Saranac River | | | |
| Direct connection to Water? | % Vegetation | Bank Slope | Length of Erosion (ft) | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | | |
| Unknown | 60 | Low | 500 | 3 | 1500 | Sandy loam | | |
| Management Recommendation | Hydroseed with conservation mix | | | | | | Cost | \$200 - \$300 |
| Total Points | 16 | | Rank | | Low | | | |
| Town of Franklin | | | | | | | IDENTIFICATION #68206 | |
| Road Name | Fletcher Farm Road | Jurisdiction | Town | Watershed | Saranac River | | | |
| Direct connection to Water? | % Vegetation | Bank Slope | Length of Erosion (ft) | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | | |
| Unknown | 40 | Low | 500 | 4 | 2000 | Loamy | | |
| Management Recommendation | Hydroseed with conservation mix | | | | | | Cost | \$200 - \$300 |
| Total Points | 27 | | Rank | | Low | | | |

| Town of Franklin | | | | | | | | | | IDENTIFICATION #68232 | | |
|-----------------------------|--|--------------|------------------------|-----------------------|--|---------------|--|--|--|-------------------------|------|-----------------|
| Road Name | Keith Road | Jurisdiction | Town | Watershed | Saranac River | | | | | | | |
| Direct connection to Water? | % Vegetation | Bank Slope | Length of Erosion (ft) | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | | | | | | |
| Unknown | 50 | Low | 250 | 3 | 750 | Loamy | | | | | | |
| Management Recommendation | Hydroseed with conservation mix | | | | | | | | | | Cost | \$200 - \$300 |
| Total Points | 17 | | | | | | | | | | Rank | Low |
| Town of Franklin | | | | | | | | | | IDENTIFICATION #68235 | | |
| Road Name | Keith Road | Jurisdiction | Town | Watershed | Saranac River | | | | | | | |
| Direct connection to Water? | % Vegetation | Bank Slope | Length of Erosion (ft) | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | | | | | | |
| Unknown | 50 | Low | 250 | 4 | 1000 | Loamy | | | | | | |
| Management Recommendation | Hydroseed with conservation mix | | | | | | | | | | Cost | \$200 - \$300 |
| Total Points | 17 | | | | | | | | | | Rank | Low |
| Town of Franklin | | | | | | | | | | IDENTIFICATION #610946 | | |
| Road Name | Garden Road | Jurisdiction | Town | Watershed | Saranac River | | | | | | | |
| Direct connection to Water? | % Vegetation | Bank Slope | Length of Erosion (ft) | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | | | | | | |
| Unknown | 0 | Moderate | 50 | 15 | 750 | Gravelly sand | | | | | | |
| Management Recommendation | Install mats and hydroseed with conservation mix and tackifier | | | | | | | | | | Cost | \$400 - \$600 |
| Total Points | 30 | | | | | | | | | | Rank | Low |
| Town of Franklin | | | | | | | | | | IDENTIFICATION #6101046 | | |
| Road Name | Garden Road | Jurisdiction | Town | Watershed | Saranac River | | | | | | | |
| Direct connection to Water? | % Vegetation | Bank Slope | Length of Erosion (ft) | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | | | | | | |
| Unknown | 0 | Moderate | 200 | 3 | 600 | Gravelly sand | | | | | | |
| Management Recommendation | Add topsoil and hydroseed with conservation mix and tackifier | | | | | | | | | | Cost | \$1000 - \$1500 |
| Total Points | 30 | | | | | | | | | | Rank | Low |
| Town of Franklin | | | | | | | | | | IDENTIFICATION #610955 | | |
| Road Name | Blue Spruce Road | Jurisdiction | Town | Watershed | Saranac River | | | | | | | |
| Direct connection to Water? | % Vegetation | Bank Slope | Length of Erosion (ft) | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | | | | | | |
| Unknown | 40 | Moderate | 200 | 8 | 1600 | Gravelly sand | | | | | | |
| Management Recommendation | Hydroseed with conservation mix and tackifier | | | | | | | | | | Cost | \$400 - \$600 |
| Total Points | 30 | | | | | | | | | | Rank | Low |
| Town of Franklin | | | | | | | | | | IDENTIFICATION #6101019 | | |
| Road Name | Howel Road | Jurisdiction | Town | Watershed | Saranac River | | | | | | | |
| Direct connection to Water? | % Vegetation | Bank Slope | Length of Erosion (ft) | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | | | | | | |
| Unknown | 0 | Moderate | 50 | 10 | 500 | Sandy gravel | | | | | | |
| Management Recommendation | Add topsoil and hydroseed with conservation mix | | | | | | | | | | Cost | \$400 - \$600 |
| Total Points | 30 | | | | | | | | | | Rank | Low |

TOWN OF FRANKLIN

| Town of Franklin | | | | | | | IDENTIFICATION #6101025 | | |
|-----------------------------|--|--------------|------------------|------------------------|-----------------------|--|-------------------------|------|-----------------|
| Road Name | Thatcherville Road | Jurisdiction | Town | Watershed | Saranac River | | | | |
| Direct connection to Water? | % Vegetation | Bank Slope | Level of Erosion | Length of Erosion (ft) | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | | |
| Yes - Stream | 80 | Low | Low | 50 | 4 | 200 | Sandy loam | | |
| Management Recommendation | Add topsoil and hydroseed with conservation mix | | | | | | | Cost | \$400 - \$600 |
| Total Points | 18 | Rank | | | | Low | | | |
| Town of Franklin | | | | | | | IDENTIFICATION #6101034 | | |
| Road Name | Thatcherville Road | Jurisdiction | Town | Watershed | Saranac River | | | | |
| Direct connection to Water? | % Vegetation | Bank Slope | Level of Erosion | Length of Erosion (ft) | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | | |
| Unknown | 60 | Moderate | Moderate | 20 | 30 | 600 | Sandy loam | | |
| Management Recommendation | Install mats and hydroseed with conservation mix and tackifier | | | | | | | Cost | \$1000 - \$1500 |
| Total Points | 20 | Rank | | | | Low | | | |
| Town of Franklin | | | | | | | IDENTIFICATION #6101054 | | |
| Road Name | Goldsmith Road | Jurisdiction | Town | Watershed | Saranac River | | | | |
| Direct connection to Water? | % Vegetation | Bank Slope | Level of Erosion | Length of Erosion (ft) | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | | |
| Yes - Stream | 80 | Low | High | 300 | 2 | 600 | Gravelly sand | | |
| Management Recommendation | Install mats and hydroseed with conservation mix and tackifier | | | | | | | Cost | \$1000 - \$1500 |
| Total Points | 27 | Rank | | | | Low | | | |
| Town of Franklin | | | | | | | IDENTIFICATION #6101101 | | |
| Road Name | Goldsmith Road | Jurisdiction | Town | Watershed | Saranac River | | | | |
| Direct connection to Water? | % Vegetation | Bank Slope | Level of Erosion | Length of Erosion (ft) | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | | |
| Yes - Stream | 80 | Moderate | Moderate | 60 | 4 | 240 | Sandy loam | | |
| Management Recommendation | Install mats and hydroseed with conservation mix and tackifier | | | | | | | Cost | \$1000 - \$1500 |
| Total Points | 26 | Rank | | | | Low | | | |
| Town of Franklin | | | | | | | IDENTIFICATION #6101113 | | |
| Road Name | Goldsmith Road | Jurisdiction | Town | Watershed | Saranac River | | | | |
| Direct connection to Water? | % Vegetation | Bank Slope | Level of Erosion | Length of Erosion (ft) | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | | |
| Yes - Stream | 90 | Low | Low | 50 | 4 | 200 | Silty | | |
| Management Recommendation | Install mats and hydroseed with conservation mix and tackifier | | | | | | | Cost | \$1000 - \$1500 |
| Total Points | 18 | Rank | | | | Low | | | |

IDENTIFICATION #6221251

Town
Harrietstown

Road Name County Highway 18

Jurisdiction County

Watershed Saranac River



Direct connection to water No

% of Vegetation 50

Bank Slope Steep

Level of Erosion Moderate

Length of Erosion (ft) 400

Width of Erosion (ft) 15

Total Area of Erosion (ft²) 6000

Soil Type Loamy sand

Management Recommendations Hydroseed with conservation mix and tackifier

Cost \$400 - \$600

Total Points 40

Rank High

IDENTIFICATION #622202

Town
Harrietstown

Road Name Kiwassa Lake Road

Jurisdiction Town

Watershed Saranac River



Direct connection to water No

% of Vegetation 20

Bank Slope Steep

Level of Erosion High

Length of Erosion (ft) 30

Width of Erosion (ft) 20

Total Area of Erosion (ft²) 600

Soil Type Sandy loam

Management Recommendations Hydroseed with conservation mix and tackifier

Cost \$400 - \$600

Total Points 40

Rank High

IDENTIFICATION #622307

Town
Harrietstown

Road Name County Highway 45

Jurisdiction County

Watershed Saranac River



Direct connection to water Yes - Other

% of Vegetation 50

Bank Slope Moderate

Level of Erosion Moderate

Length of Erosion (ft) 1000

Width of Erosion (ft) 10

Total Area of Erosion (ft²) 10,000

Soil Type Loamy

Management Recommendations Hydroseed with conservation mix and tackifier

Cost \$1000 - \$2000

Total Points 45

Rank High

IDENTIFICATION #622248

Town
Harrietstown

Road Name County Highway 45

Jurisdiction County

Watershed Saranac River



Direct connection to water Yes - Stream

% of Vegetation 50

Bank Slope Moderate

Level of Erosion Moderate

Length of Erosion (ft) 150

Width of Erosion (ft) 5

Total Area of Erosion (ft²) 750

Soil Type Loamy

Management Recommendations Hydroseed with conservation mix and tackifier

Cost \$400 - \$600

Total Points 35

Rank Moderate

IDENTIFICATION #671155

Town
Harrietstown



Road Name Unmarked Road

Jurisdiction County

Watershed Saranac River

| | |
|--|---|
| Direct connection to water | No |
| % of Vegetation | 85 |
| Bank Slope | Steep |
| Level of Erosion | High |
| Length of Erosion (ft) | 300 |
| Width of Erosion (ft) | 20 |
| Total Area of Erosion (ft ²) | 6000 |
| Soil Type | Loam |
| Management Recommendations | Install erosion control mats and hydroseed with tackifier |
| Cost | \$1000 - \$2000 |
| Total Points | 40 |
| Rank | High |

| Town of Harrietstown | | | | | | | | | | IDENTIFICATION #6221047 | | |
|-----------------------------|---|--------------|------------------|-----------|---------------|------------------------|-----------------------|--|------------|-------------------------|------|---------------|
| Road Name | State Highway 186 | Jurisdiction | State | Watershed | Saranac River | Length of Erosion (ft) | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | | | |
| Direct connection to Water? | % Vegetation | Bank Slope | Level of Erosion | 100 | 10 | 1000 | | | Sandy | | | |
| No | 45 | Low | Low | | | | | | | | | |
| Management Recommendation | Hydroseed with conservation mix | | | | | | | | | | Cost | \$200 - \$300 |
| Total Points | 17 | | | | | | | | | | Rank | Low |
| Town of Harrietstown | | | | | | | | | | IDENTIFICATION #6221105 | | |
| Road Name | State Highway 186 | Jurisdiction | State | Watershed | Saranac River | Length of Erosion (ft) | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | | | |
| Direct connection to Water? | % Vegetation | Bank Slope | Level of Erosion | 50 | 10 | 500 | | | Sandy | | | |
| No | 15 | Moderate | Moderate | | | | | | | | | |
| Management Recommendation | Hydroseed with conservation mix and tackifier | | | | | | | | | | Cost | \$400 - \$600 |
| Total Points | 30 | | | | | | | | | | Rank | Low |
| Town of Harrietstown | | | | | | | | | | IDENTIFICATION #6221113 | | |
| Road Name | State Highway 186 | Jurisdiction | State | Watershed | Saranac River | Length of Erosion (ft) | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | | | |
| Direct connection to Water? | % Vegetation | Bank Slope | Level of Erosion | 100 | 5 | 500 | | | Sandy muck | | | |
| Unknown | 75 | Low | Low | | | | | | | | | |
| Management Recommendation | Hydroseed with conservation mix | | | | | | | | | | Cost | \$200 - \$300 |
| Total Points | 12 | | | | | | | | | | Rank | Low |
| Town of Harrietstown | | | | | | | | | | IDENTIFICATION #6221119 | | |
| Road Name | Airport Road | Jurisdiction | Town | Watershed | Saranac River | Length of Erosion (ft) | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | | | |
| Direct connection to Water? | % Vegetation | Bank Slope | Level of Erosion | 50 | 15 | 750 | | | Sandy | | | |
| No | 40 | Moderate | Moderate | | | | | | | | | |
| Management Recommendation | Hydroseed with conservation mix and tackifier | | | | | | | | | | Cost | \$400 - \$600 |
| Total Points | 30 | | | | | | | | | | Rank | Low |
| Town of Harrietstown | | | | | | | | | | IDENTIFICATION #6221124 | | |
| Road Name | Airport Road | Jurisdiction | Town | Watershed | Saranac River | Length of Erosion (ft) | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | | | |
| Direct connection to Water? | % Vegetation | Bank Slope | Level of Erosion | 20 | 5 | 100 | | | Sandy | | | |
| No | 75 | Low | Low | | | | | | | | | |
| Management Recommendation | Hydroseed with conservation mix | | | | | | | | | | Cost | \$200 - \$300 |
| Total Points | 12 | | | | | | | | | | Rank | Low |
| Town of Harrietstown | | | | | | | | | | IDENTIFICATION #6221129 | | |
| Road Name | Airport Road | Jurisdiction | Town | Watershed | Saranac River | Length of Erosion (ft) | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | | | |
| Direct connection to Water? | % Vegetation | Bank Slope | Level of Erosion | 50 | 6 | 300 | | | Sandy | | | |
| No | 50 | Low | Moderate | | | | | | | | | |
| Management Recommendation | Hydroseed with conservation mix | | | | | | | | | | Cost | \$200 - \$300 |
| Total Points | 21 | | | | | | | | | | Rank | Low |

TOWN OF HARRIETSTOWN

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| Town of Harrietstown | | | | | | | IDENTIFICATION #6221137 | |
|-----------------------------|--|--------------|------------------|------------------------|-----------------------|--|-------------------------|----------------|
| Road Name | Donaldson Road | Jurisdiction | Town | Watershed | Saranac River | | | |
| Direct connection to Water? | % Vegetation | Bank Slope | Level of Erosion | Length of Erosion (ft) | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | |
| No | 50 | Low | Moderate | 20 | 10 | 200 | Sandy | |
| Management Recommendation | Hydroseed with conservation mix | | | | | | Cost | \$200 - \$300 |
| Total Points | 21 | | | | | | Rank | Low |
| Town of Harrietstown | | | | | | | IDENTIFICATION #6221142 | |
| Road Name | Donaldson Road | Jurisdiction | Town | Watershed | Saranac River | | | |
| Direct connection to Water? | % Vegetation | Bank Slope | Level of Erosion | Length of Erosion (ft) | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | |
| No | 75 | Low | Low | 20 | 5 | 100 | Loamy sand | |
| Management Recommendation | Hydroseed with conservation mix | | | | | | Cost | \$200 - \$300 |
| Total Points | 12 | | | | | | Rank | Low |
| Town of Harrietstown | | | | | | | IDENTIFICATION #6221147 | |
| Road Name | Donaldson Road | Jurisdiction | Town | Watershed | Saranac River | | | |
| Direct connection to Water? | % Vegetation | Bank Slope | Level of Erosion | Length of Erosion (ft) | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | |
| Yes - Stream | 50 | Low | Low | 20 | 5 | 100 | Sandy | |
| Management Recommendation | Hydroseed with conservation mix | | | | | | Cost | \$200 - \$300 |
| Total Points | 27 | | | | | | Rank | Low |
| Town of Harrietstown | | | | | | | IDENTIFICATION #6221152 | |
| Road Name | Donaldson Road | Jurisdiction | Town | Watershed | Saranac River | | | |
| Direct connection to Water? | % Vegetation | Bank Slope | Level of Erosion | Length of Erosion (ft) | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | |
| No | 50 | Moderate | Low | 20 | 5 | 100 | Sandy | |
| Management Recommendation | Install mats and hydroseed with conservation mix | | | | | | Cost | \$800 - \$1000 |
| Total Points | 21 | | | | | | Rank | Low |
| Town of Harrietstown | | | | | | | IDENTIFICATION #6221158 | |
| Road Name | Donaldson Road | Jurisdiction | Town | Watershed | Saranac River | | | |
| Direct connection to Water? | % Vegetation | Bank Slope | Level of Erosion | Length of Erosion (ft) | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | |
| No | 50 | Low | Moderate | 20 | 6 | 120 | Loamy sand | |
| Management Recommendation | Hydroseed with conservation mix | | | | | | Cost | \$200 - \$300 |
| Total Points | 21 | | | | | | Rank | Low |
| Town of Harrietstown | | | | | | | IDENTIFICATION #6221203 | |
| Road Name | Donaldson Road | Jurisdiction | Town | Watershed | Saranac River | | | |
| Direct connection to Water? | % Vegetation | Bank Slope | Level of Erosion | Length of Erosion (ft) | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | |
| No | 50 | Moderate | Moderate | 30 | 15 | 450 | Loamy sand | |
| Management Recommendation | Hydroseed with conservation mix | | | | | | Cost | \$200 - \$300 |
| Total Points | 25 | | | | | | Rank | Low |

| Town of Harrietstown | | | | | | | | | | IDENTIFICATION #6221208 | | |
|-----------------------------|---|--------------|------------------------|-----------------------|--|------------|--|--|--|-------------------------|------|---------------|
| Road Name | Donaldson Road | Jurisdiction | Town | Watershed | Saranac River | | | | | | | |
| Direct connection to Water? | %Vegetation | Bank Slope | Length of Erosion (ft) | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | | | | | | |
| No | 75 | Low | 20 | 5 | 100 | Sandy loam | | | | | | |
| Management Recommendation | Hydroseeded with conservation mix | | | | | | | | | | Cost | \$200 - \$300 |
| Total Points | 12 | | | | | | | | | | Rank | Low |
| Town of Harrietstown | | | | | | | | | | IDENTIFICATION #6221238 | | |
| Road Name | County Highway 18 | Jurisdiction | County | Watershed | Saranac River | | | | | | | |
| Direct connection to Water? | %Vegetation | Bank Slope | Length of Erosion (ft) | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | | | | | | |
| No | 75 | Low | 40 | 5 | 200 | Loamy | | | | | | |
| Management Recommendation | Hydroseeded with conservation mix and tackifier | | | | | | | | | | Cost | \$300 - \$500 |
| Total Points | 12 | | | | | | | | | | Rank | Low |
| Town of Harrietstown | | | | | | | | | | IDENTIFICATION #6221244 | | |
| Road Name | County Highway 18 | Jurisdiction | County | Watershed | Saranac River | | | | | | | |
| Direct connection to Water? | %Vegetation | Bank Slope | Length of Erosion (ft) | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | | | | | | |
| No | 50 | Low | 30 | 5 | 150 | Loamy | | | | | | |
| Management Recommendation | Hydroseeded with conservation mix and tackifier | | | | | | | | | | Cost | \$300 - \$500 |
| Total Points | 17 | | | | | | | | | | Rank | Low |
| Town of Harrietstown | | | | | | | | | | IDENTIFICATION #6221247 | | |
| Road Name | County Highway 18 | Jurisdiction | County | Watershed | Saranac River | | | | | | | |
| Direct connection to Water? | %Vegetation | Bank Slope | Length of Erosion (ft) | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | | | | | | |
| No | 75 | Moderate | 40 | 10 | 400 | Loamy | | | | | | |
| Management Recommendation | Hydroseeded with conservation mix and tackifier | | | | | | | | | | Cost | \$400 - \$600 |
| Total Points | 20 | | | | | | | | | | Rank | Low |
| Town of Harrietstown | | | | | | | | | | IDENTIFICATION #622156 | | |
| Road Name | Kiwanassa Lake Road | Jurisdiction | Town | Watershed | Saranac River | | | | | | | |
| Direct connection to Water? | %Vegetation | Bank Slope | Length of Erosion (ft) | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | | | | | | |
| Unknown | 80 | Moderate | 20 | 10 | 200 | Sandy loam | | | | | | |
| Management Recommendation | Hydroseeded with conservation mix and tackifier | | | | | | | | | | Cost | \$300 - \$500 |
| Total Points | 12 | | | | | | | | | | Rank | Low |
| Town of Harrietstown | | | | | | | | | | IDENTIFICATION #622205 | | |
| Road Name | Kiwanassa Lake Road | Jurisdiction | Town | Watershed | Saranac River | | | | | | | |
| Direct connection to Water? | %Vegetation | Bank Slope | Length of Erosion (ft) | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | | | | | | |
| No | 50 | Moderate | 15 | 10 | 150 | Sandy loam | | | | | | |
| Management Recommendation | Hydroseeded with conservation mix and tackifier | | | | | | | | | | Cost | \$300 - \$500 |
| Total Points | 25 | | | | | | | | | | Rank | Low |

TOWN OF HARRIETSTOWN

111

| Town of Harrietstown | | | | | | | | | | IDENTIFICATION #622230 | | |
|-----------------------------|---|------------|------------------|------------------------|-----------------------|--|------------|--|---------------|------------------------|--|-----|
| Road Name | State Route 3 | | Jurisdiction | | State | | Watershed | | Saranac River | | | |
| Direct connection to Water? | % Vegetation | Bank Slope | Level of Erosion | Length of Erosion (ft) | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | | | | | |
| No | 50 | Low | Low | 10 | 5 | 50 | Loamy sand | | | | | |
| Management Recommendation | Hydroseed with conservation mix and tackifier | | | | | | | | | | | |
| Total Points | 17 | | | | | | | | | | | |
| Rank | | | | | | | | | | | | Low |
| Town of Harrietstown | | | | | | | | | | IDENTIFICATION #622233 | | |
| Road Name | State Route 3 | | Jurisdiction | | State | | Watershed | | Saranac River | | | |
| Direct connection to Water? | % Vegetation | Bank Slope | Level of Erosion | Length of Erosion (ft) | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | | | | | |
| No | 50 | Low | Low | 50 | 5 | 250 | Loamy sand | | | | | |
| Management Recommendation | Add topsoil and hydroseed with conservation mix | | | | | | | | | | | |
| Total Points | 17 | | | | | | | | | | | |
| Rank | | | | | | | | | | | | Low |
| Town of Harrietstown | | | | | | | | | | IDENTIFICATION #622255 | | |
| Road Name | County Highway 45 | | Jurisdiction | | County | | Watershed | | Saranac River | | | |
| Direct connection to Water? | % Vegetation | Bank Slope | Level of Erosion | Length of Erosion (ft) | Width of Erosion (ft) | Total Area of Erosion (ft ²) | Soil Type | | | | | |
| No | 75 | Moderate | Moderate | 30 | 10 | 300 | Loamy | | | | | |
| Management Recommendation | Hydroseed with conservation mix and tackifier | | | | | | | | | | | |
| Total Points | 20 | | | | | | | | | | | |
| Rank | | | | | | | | | | | | Low |

IDENTIFICATION #622336

Town
Santa Clara

Road Name State Route 30

Jurisdiction State

Watershed Saranac River



IDENTIFICATION #622342

Town
Santa Clara

Road Name Stanley Drive

Jurisdiction Town

Watershed Saranac River



Direct connection to water No

% of Vegetation 50

Bank Slope Low

Level of Erosion Low

Length of Erosion (ft) 20

Width of Erosion (ft) 5

Total Area of Erosion (ft²) 100

Soil Type Sandy

Management Recommendations Hydroseed with conservation mix and tackifier

Cost \$300 - \$500

Total Points 17

Rank Low

Direct connection to water No

% of Vegetation 30

Bank Slope Moderate

Level of Erosion Moderate

Length of Erosion (ft) 60

Width of Erosion (ft) 5

Total Area of Erosion (ft²) 300

Soil Type Sandy

Management Recommendations Hydroseed with conservation mix and tackifier

Cost \$300 - \$500

Total Points 25

Rank Low

IDENTIFICATION #622355

Town
Santa Clara

Road Name Stanley Drive

Jurisdiction Town

Watershed Saranac River



IDENTIFICATION #622347

Town
Santa Clara

Road Name County Highway 46

Jurisdiction County

Watershed Saranac River



Direct connection to water No

% of Vegetation 40

Bank Slope Moderate

Level of Erosion Moderate

Length of Erosion (ft) 20

Width of Erosion (ft) 8

Total Area of Erosion (ft²) 160

Soil Type Sandy

Management Recommendations Hydroseed with tackifier

Cost \$300 - \$500

Total Points 25

Rank Low

Direct connection to water No

% of Vegetation 60

Bank Slope Low

Level of Erosion Moderate

Length of Erosion (ft) 70

Width of Erosion (ft) 5

Total Area of Erosion (ft²) 350

Soil Type Sandy

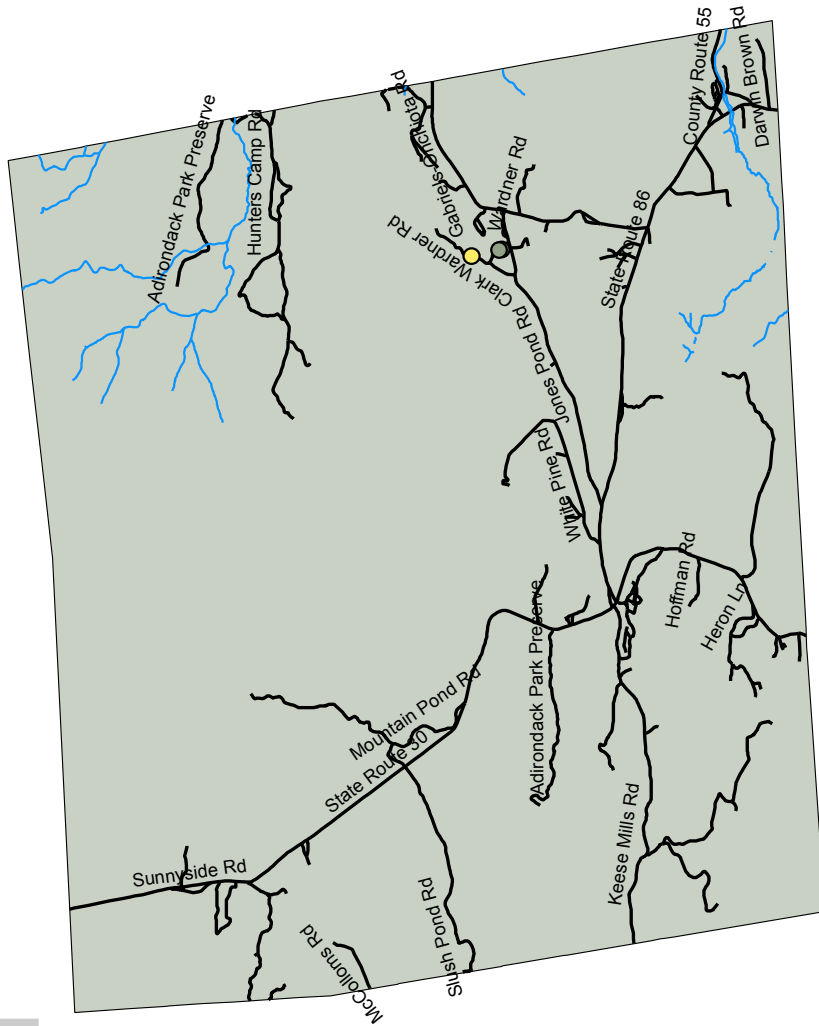
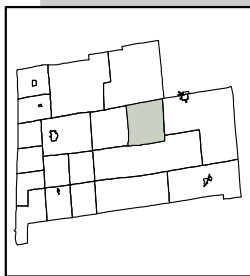
Management Recommendations Hydroseed with conservation mix and tackifier

Cost \$300 - \$500

Total Points 16

Rank Low

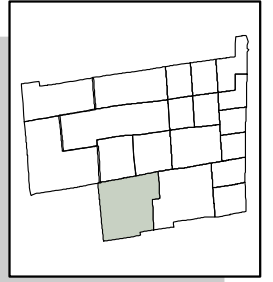
Town of Brighton ARRA Roadside Erosion Inventory Project



Legend

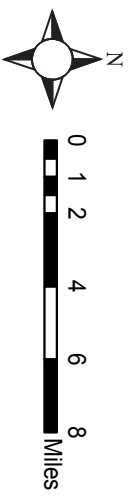
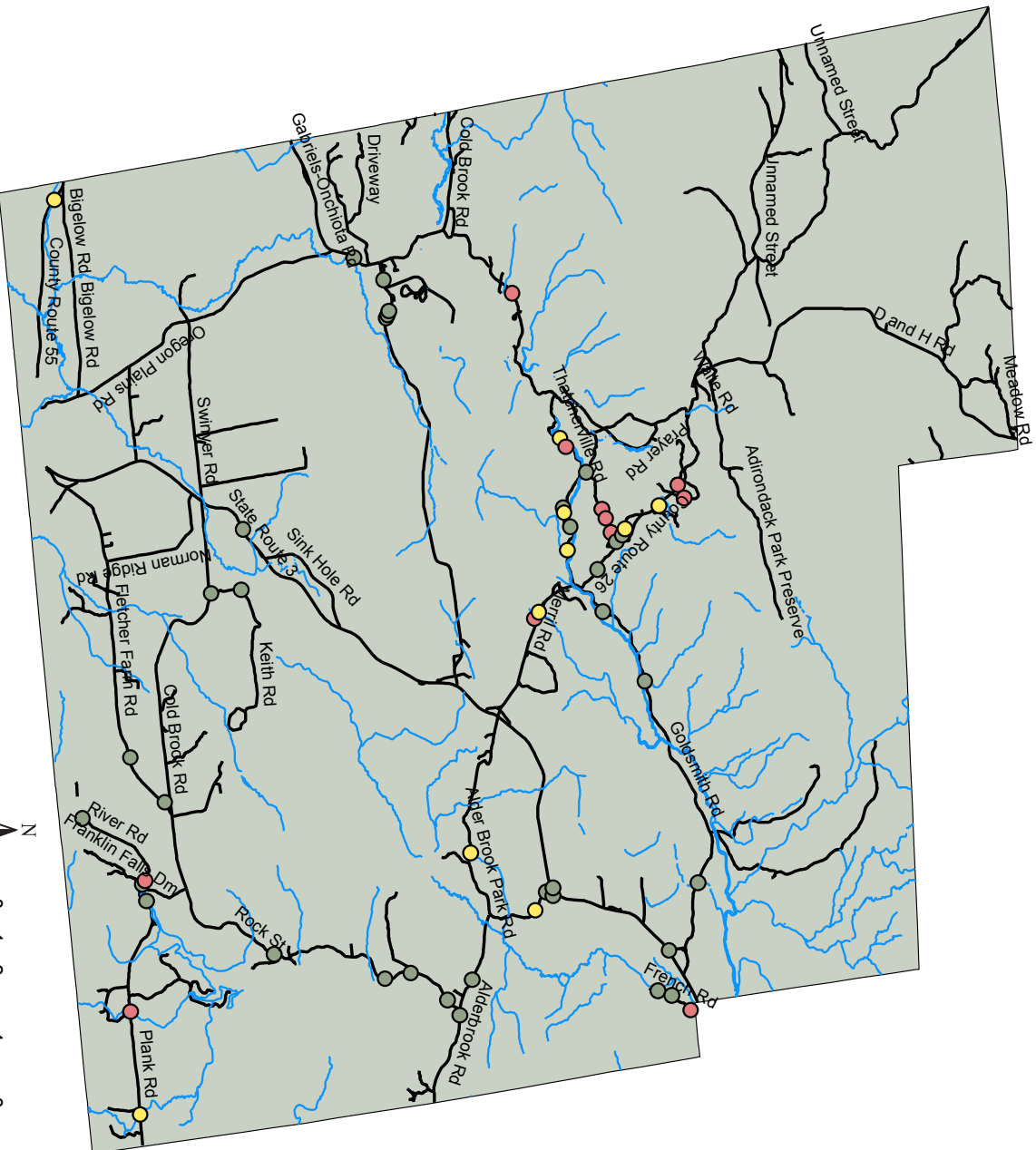
- High
- Moderate
- Low
- Hydrology
- Roads
- Town of Brighton

Town of Franklin ARRA Roadside Erosion Inventory Project

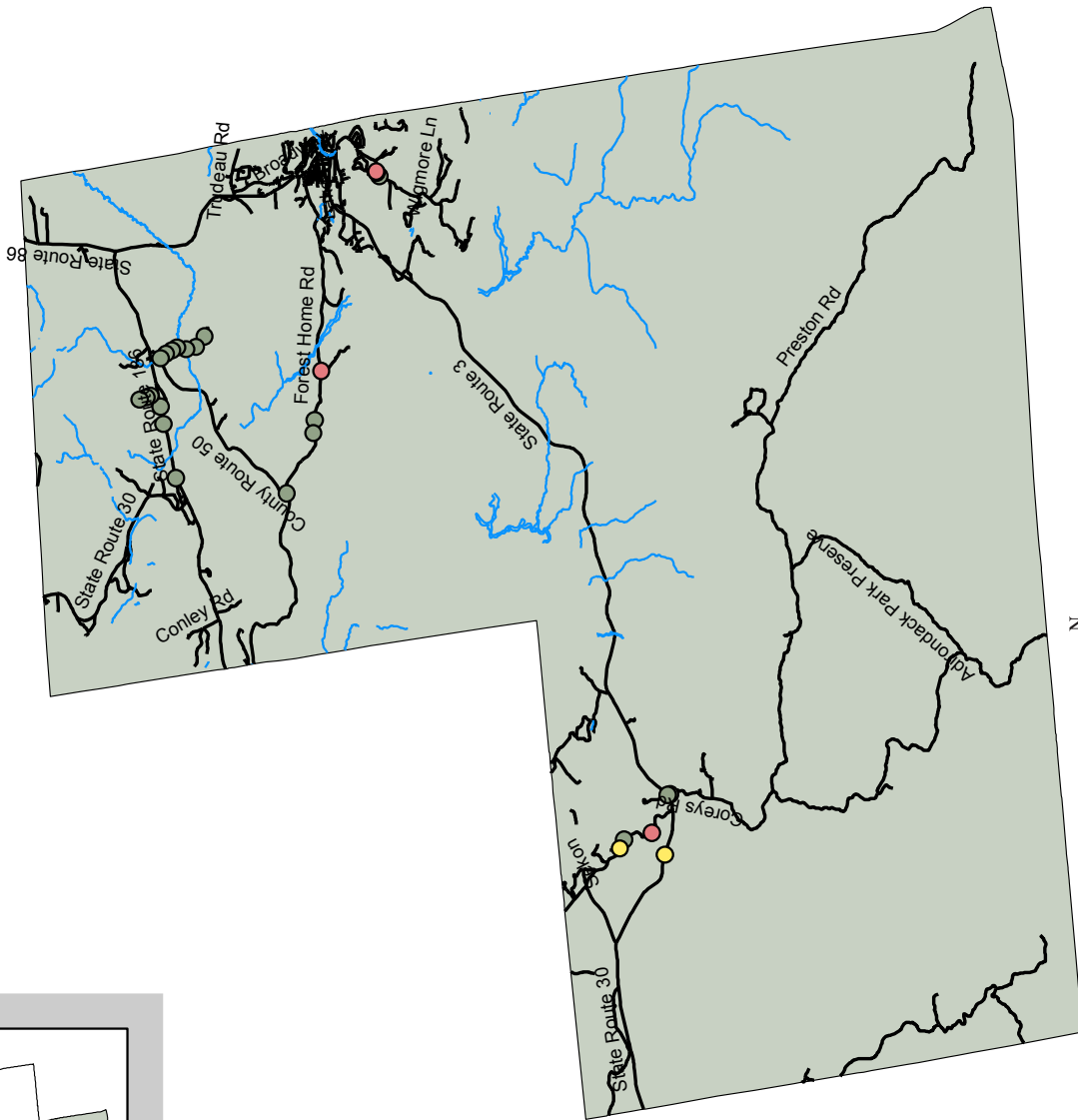
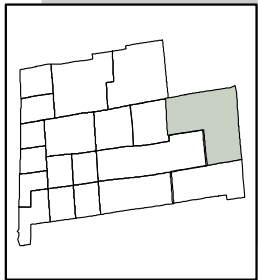


Legend

- High
- Moderate
- Low
- Hydrology
- Roads
- Town of Franklin

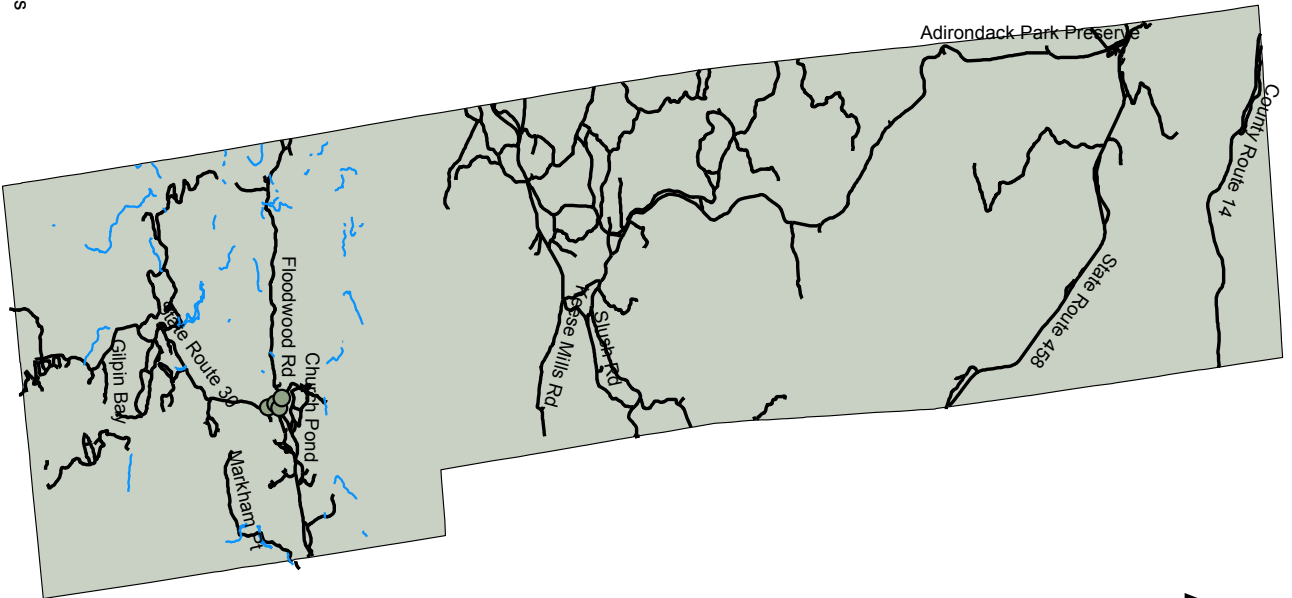
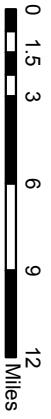
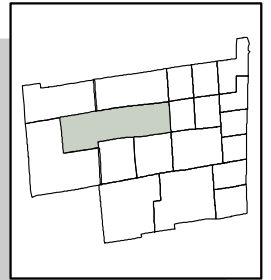


Town of Harrietstown ARRA Roadside Erosion Inventory Project



Legend

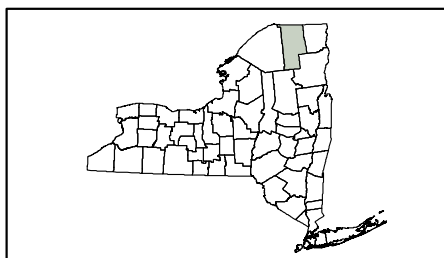
- High (Red dot)
- Moderate (Yellow dot)
- Low (Grey dot)
- Hydrology (Blue line)
- Roads (Black line)
- Town of Harrietstown (Light green shaded area)



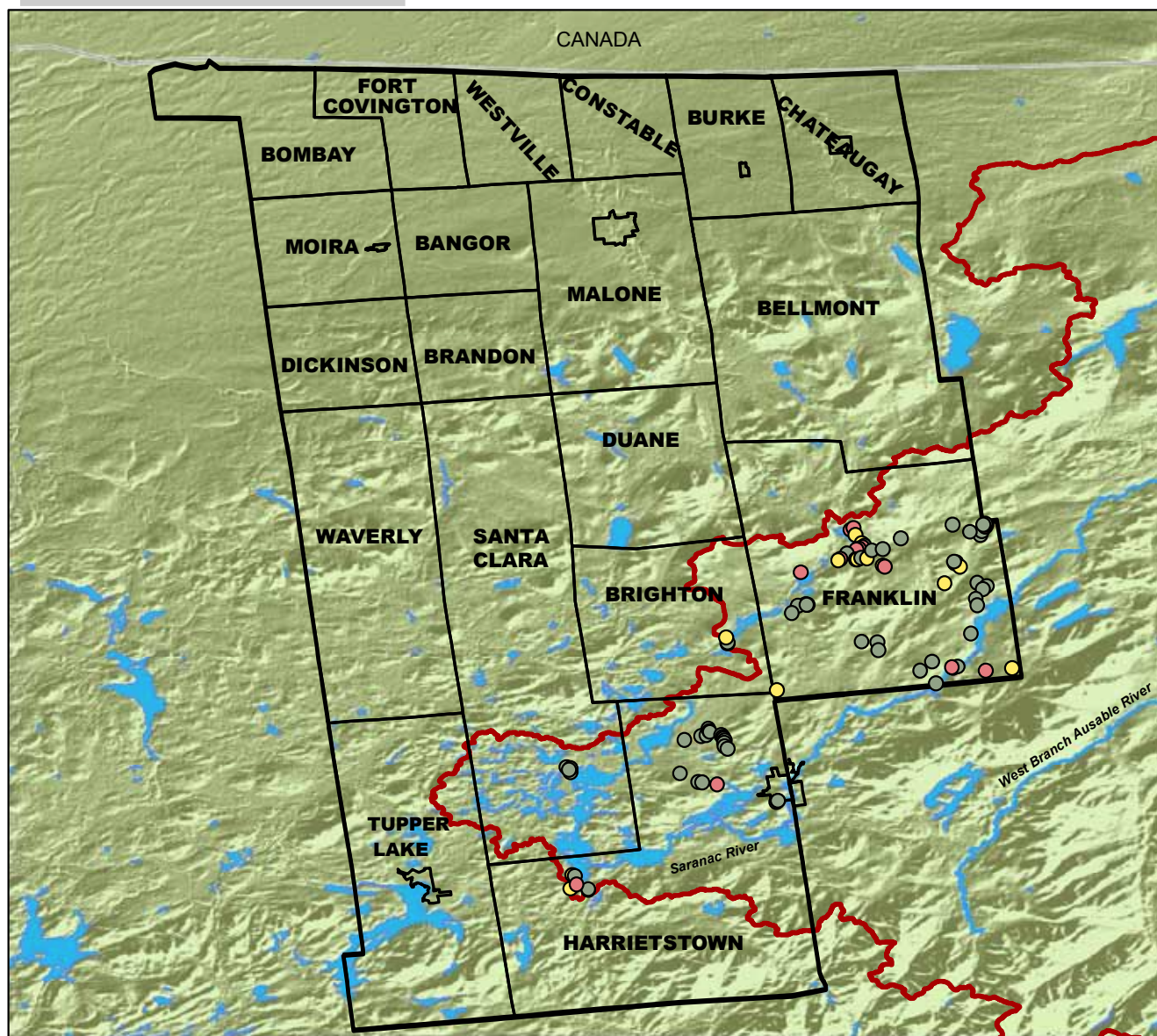
**Town of Santa Clara
ARRA Roadside Erosion
Inventory Project**

Legend

- Low
- Hydrology
- Roads
- Town of Santa Clara



American Recovery and Reinvestment Act Roadside Erosion Inventory Project Franklin County, New York



Legend

| | |
|----------------------------|--------------------------|
| Site Ranking | Franklin County |
| High | Franklin County Towns |
| Moderate | Lake Champlain Watershed |
| Low | Major Rivers |
| Elevation in meters | Lake/Pond |
| Value | |
| High : 255 | |
| Low : 0 | |

WARREN COUNTY



LAKE GEORGE

PHOTO COURTESY OF THE LAKE GEORGE ASSOCIATION

Six of the 13 municipalities within Warren County have lands that are all or predominately within the Champlain Basin. Many of these areas have a substantial amount of development, including the City of Glens Falls, the southern end of the Town of Queensbury, the Village of Lake George and the highly developed shorelines of Lake George. However, these developed areas are connected by a slue of more rural road networks, owned and maintained by the State, Warren County, and the individual towns.

The soils within Warren County are predominately highly erodible sands, remnants of the glacier that passed through and carved out Lake George, which is the main tributary to Lake Champlain from Warren County. The Lake George watershed is over 230 square miles and has over 140 tributaries, but some of the larger ones include East Brook, Edmund's Brook, English Brook, Finkle Brook, Huddle Brook, Indian Brook and Stewart Brook. Lake George flows north into the two mile long LaChute River in Essex County which outlets into southern Lake Champlain in the Town of Ticonderoga. The other major tributary to Lake Champlain is Halfway Brook, which begins from a spring on West Mountain in Queensbury and flows through the most developed areas of the County before it discharges into the Champlain Canal in Washington County. There, the water flows directly into Lake Champlain at its southern end.

In the spring of 2011, the Warren County SWCD drove over 600 miles and located and assessed 34 sites of roadside erosion. In total, 19 sites were identified as High Priority, 8 as Moderate Priority and 7 as Low Priority. In the fall of 2011, following the devastation caused by tropical storm Irene and other torrential storms, all 34 sites were re-assessed for further damage and erosion. Surprisingly, the changes observed at all the sites appeared to be on par with the average rate of erosion expected in a given season and therefore no changes were needed to the original data collected.

Recommended remediation practices for the sites in Warren County include hydroseeding, ditch lining and stabilization with stone, removing trees that are too heavy to sustain on eroding slopes and installing erosion control blankets. These practices range in price from \$300 to \$4,000 each. All together, the total restoration cost for the Warren County sites is \$35,350. This is a relatively low cost for remediation, as many of the sites can be restored using the Warren County SWCD Hydroseeding Program that is actively being used throughout the county at little or no cost to the Towns.

WARREN COUNTY

TOWN | MAJOR SUBWATERSHEDS | ROADS

| Town | Number of Sites per Priority | | | Percentage of sites in County |
|-------------|------------------------------|----------|-----|-------------------------------|
| | High | Moderate | Low | |
| Bolton | 11 | 1 | 3 | 44% |
| Hague | 0 | 2 | 0 | 6% |
| Lake George | 3 | 1 | 0 | 12% |
| Queensbury | 5 | 4 | 4 | 38% |

| Major Subwatershed | Number of Sites per Priority | | | Percentage of sites in County |
|--------------------|------------------------------|----------|-----|-------------------------------|
| | High | Moderate | Low | |
| Halfway Brook | 5 | 4 | 3 | 35% |
| Lake George | 14 | 4 | 4 | 65% |

| Road Jurisdiction | Number of Sites per Priority | | | Percentage of sites in County |
|-------------------|------------------------------|----------|-----|-------------------------------|
| | High | Moderate | Low | |
| State Roads | 2 | 3 | 9 | 15% |
| County Roads | 6 | 1 | 1 | 24% |
| Town Roads | 11 | 4 | 6 | 61% |
| Private Roads | 0 | 0 | 0 | 0% |

IDENTIFICATION #3

Town
Bolton

Road Name Bolton Road

Jurisdiction County

Watershed Indian Brook



Direct connection to water Yes - Culvert

% of Vegetation 25

Bank Slope Steep

Level of Erosion Moderate

Length of Erosion (ft) 400

Width of Erosion (ft) 8

Total Area of Erosion (ft²) 3200

Soil Type Sandy gravelly loam

Management Recommendations Hydroseed with tackifier and clover, consider rock ditching

Cost \$400 - \$1000

Total Points 55

Rank High

IDENTIFICATION #6

Town
Bolton

Road Name Coolidge Hill Road

Jurisdiction County

Watershed Edmonds Brook



Direct connection to water Yes - Culvert

% of Vegetation 15

Bank Slope Steep

Level of Erosion Moderate

Length of Erosion (ft) 150

Width of Erosion (ft) 10

Total Area of Erosion (ft²) 1500

Soil Type Fine sandy loam

Management Recommendations Remove leaves and hydroseed

Cost \$400 - \$500

Total Points 40

Rank High

IDENTIFICATION #7

Town
Bolton

Road Name Coolidge Hill Road

Jurisdiction County

Watershed Edmonds Brook



Direct connection to water Yes - Culvert

% of Vegetation 10

Bank Slope Moderate

Level of Erosion Moderate

Length of Erosion (ft) 80

Width of Erosion (ft) 6

Total Area of Erosion (ft²) 480

Soil Type Fine sandy loam

Management Recommendations Hydroseed with tackifier, crown vetch and clover

Cost \$300

Total Points 40

Rank High

IDENTIFICATION #8

Town
Bolton

Road Name Coolidge Hill Road

Jurisdiction County

Watershed Edmonds Brook



Direct connection to water No

% of Vegetation 60

Bank Slope Steep

Level of Erosion High

Length of Erosion (ft) 120

Width of Erosion (ft) 20

Total Area of Erosion (ft²) 2400

Soil Type Bouldery sandy loam

Management Recommendations Remove trees, hydroseed with tackifier and crown vetch

Cost \$500 - \$700

Total Points 40

Rank High

| IDENTIFICATION #9 | | IDENTIFICATION #11 | |
|--|---|--|---|
| Town Bolton |  | Town Bolton |  |
| Road Name | Coolidge Hill Road | Road Name | Potter Hill Road |
| Jurisdiction | County | Jurisdiction | Town |
| Watershed | Edmonds Brook | Watershed | Stewart Brook |
| Direct connection to water | No | Direct connection to water | No |
| % of Vegetation | 55 | % of Vegetation | 25 |
| Bank Slope | Steep | Bank Slope | Steep |
| Level of Erosion | High | Level of Erosion | Moderate |
| Length of Erosion (ft) | 100 | Length of Erosion (ft) | 80 |
| Width of Erosion (ft) | 20 | Width of Erosion (ft) | 15 |
| Total Area of Erosion (ft ²) | 2000 | Total Area of Erosion (ft ²) | 1200 |
| Soil Type | Bouldery sandy loam | Soil Type | Bouldery, fine sandy loam |
| Management Recommendations | Remove weight of trees and hydroseed | Management Recommendations | Clean rock ditch, add stone, remove weight of trees |
| Cost | \$1000 - \$1500 | Cost | \$1000 - \$1500 |
| Total Points | 40 | Total Points | 40 |
| Rank | High | Rank | High |
| IDENTIFICATION #12 | | IDENTIFICATION #13 | |
| Town Bolton |  | Town Bolton |  |
| Road Name | Trout Lake Road | Road Name | Wall Street |
| Jurisdiction | County | Jurisdiction | Town |
| Watershed | Huddle Brook | Watershed | Huddle Brook |
| Direct connection to water | No | Direct connection to water | Yes - Culvert |
| % of Vegetation | 25 | % of Vegetation | 40 |
| Bank Slope | Steep | Bank Slope | Moderate |
| Level of Erosion | Moderate | Level of Erosion | Moderate |
| Length of Erosion (ft) | 270 | Length of Erosion (ft) | 200 |
| Width of Erosion (ft) | 10 | Width of Erosion (ft) | 15 |
| Total Area of Erosion (ft ²) | 2700 | Total Area of Erosion (ft ²) | 3000 |
| Soil Type | Rock outcrop complex | Soil Type | Bouldery fine sandy loam |
| Management Recommendations | Hydroseed to establish vegetation | Management Recommendations | Hydroseed with dense seed mix, crown vetch and clover |
| Cost | \$500 - \$800 | Cost | \$500 - \$1000 |
| Total Points | 45 | Total Points | 45 |
| Rank | High | Rank | High |

| IDENTIFICATION #14 | | IDENTIFICATION #16 | |
|--|---|--|---|
| Town Bolton |  | Town Bolton |  |
| Road Name | Wall Street | Road Name | Potter Hill Road |
| Jurisdiction | Town | Jurisdiction | Town |
| Watershed | Edmonds Brook | Watershed | Finkle Brook |
| Direct connection to water | Yes - Culvert | Direct connection to water | Yes - Stream |
| % of Vegetation | 25 | % of Vegetation | 5 |
| Bank Slope | Steep | Bank Slope | Steep |
| Level of Erosion | High | Level of Erosion | High |
| Length of Erosion (ft) | 300 | Length of Erosion (ft) | 60 |
| Width of Erosion (ft) | 15 | Width of Erosion (ft) | 40 |
| Total Area of Erosion (ft ²) | 4500 | Total Area of Erosion (ft ²) | 2400 |
| Soil Type | Bouldery, fine sandy loam | Soil Type | Bouldery, fine sandy loam |
| Management Recommendations | Clear leaves and hydroseed | Management Recommendations | Vegetative plugs and shrubs, stone, fabric, remove trees |
| Cost | \$500 | Cost | \$3000 - \$4000 |
| Total Points | 60 | Total Points | 60 |
| Rank | High | Rank | High |
| IDENTIFICATION #17 | | IDENTIFICATION #4 | |
| Town Bolton |  | Town Bolton |  |
| Road Name | Potter Hill Road | Road Name | Padanarum Road |
| Jurisdiction | Town | Jurisdiction | Town |
| Watershed | Finkle Brook | Watershed | Indian Brook |
| Direct connection to water | No | Direct connection to water | No |
| % of Vegetation | 25 | % of Vegetation | 60 |
| Bank Slope | Steep | Bank Slope | Steep |
| Level of Erosion | High | Level of Erosion | Moderate |
| Length of Erosion (ft) | 300 | Length of Erosion (ft) | 300 |
| Width of Erosion (ft) | 20 | Width of Erosion (ft) | 15 |
| Total Area of Erosion (ft ²) | 6000 | Total Area of Erosion (ft ²) | 4500 |
| Soil Type | Bouldery, fine sandy loam | Soil Type | Rock outcrop complex |
| Management Recommendations | Hydroseed with bonded fiber matrix, crown vetch, clover | Management Recommendations | Hydroseed with tackifier, crown vetch and clover |
| Cost | \$1200 - \$1500 | Cost | \$600 - \$800 |
| Total Points | 55 | Total Points | 35 |
| Rank | High | Rank | Moderate |

| IDENTIFICATION #5 | | IDENTIFICATION #10 | |
|--|---|--|---|
| Town Bolton |  | Town Bolton |  |
| Road Name | Tout Lake Road | Road Name | Coolidge Hill Road |
| Jurisdiction | Town | Jurisdiction | County |
| Watershed | Huddle Brook | Watershed | Edmonds Brook |
| Direct connection to water | No | Direct connection to water | No |
| % of Vegetation | 40 | % of Vegetation | 60 |
| Bank Slope | Moderate | Bank Slope | Steep |
| Level of Erosion | Moderate | Level of Erosion | Moderate |
| Length of Erosion (ft) | 60 | Length of Erosion (ft) | 50 |
| Width of Erosion (ft) | 15 | Width of Erosion (ft) | 15 |
| Total Area of Erosion (ft ²) | 900 | Total Area of Erosion (ft ²) | 750 |
| Soil Type | Bouldery sandy loam | Soil Type | Bouldery sandy loam |
| Management Recommendations | Hydroseed with tackifier and crown vetch | Management Recommendations | Hydroseed with tackifier, crown vetch & clover |
| Cost | \$300 - \$400 | Cost | \$300 |
| Total Points | 25 | Total Points | 25 |
| Rank | Low | Rank | Low |
| IDENTIFICATION #15 | | IDENTIFICATION #1 | |
| Town Bolton |  | Town Hague |  |
| Road Name | Brailey Hill Road | Road Name | Lake Shore Drive/9N |
| Jurisdiction | Town | Jurisdiction | State |
| Watershed | Lake George | Watershed | Lake George |
| Direct connection to water | No | Direct connection to water | No |
| % of Vegetation | 50 | % of Vegetation | 5 |
| Bank Slope | Moderate | Bank Slope | Steep |
| Level of Erosion | Moderate | Level of Erosion | Moderate |
| Length of Erosion (ft) | 100 | Length of Erosion (ft) | 38 |
| Width of Erosion (ft) | 8 | Width of Erosion (ft) | 10 |
| Total Area of Erosion (ft ²) | 800 | Total Area of Erosion (ft ²) | 380 |
| Soil Type | Fine sandy loam | Soil Type | Sandy gravel |
| Management Recommendations | Hydroseed with traditional mix | Management Recommendations | Hydroseed with tackifier and crown vetch |
| Cost | \$300 | Cost | \$300 - \$500 |
| Total Points | 25 | Total Points | 35 |
| Rank | Low | Rank | Moderate |

IDENTIFICATION #2

Town
HagueRoad Name Lake Shore
Drive/9N

Jurisdiction State

Watershed Lake George



| | |
|--|--|
| Direct connection to water | No |
| % of Vegetation | 15 |
| Bank Slope | Steep |
| Level of Erosion | Moderate |
| Length of Erosion (ft) | 160 |
| Width of Erosion (ft) | 6 |
| Total Area of Erosion (ft ²) | 960 |
| Soil Type | Bouldery, fine sandy loam |
| Management Recommendations | Hydroseed with tackifier and crown vetch |
| Cost | \$300 - \$500 |
| Total Points | 35 |
| Rank | Moderate |

IDENTIFICATION #19

Town
Lake George

Road Name Finkle Farm Road

Jurisdiction Town

Watershed English Brook



| | |
|--|-------------------|
| Direct connection to water | Yes - Culvert |
| % of Vegetation | 50 |
| Bank Slope | Steep |
| Level of Erosion | Moderate |
| Length of Erosion (ft) | 160 |
| Width of Erosion (ft) | 10 |
| Total Area of Erosion (ft ²) | 1600 |
| Soil Type | Cobbly sandy loam |
| Management Recommendations | Hydroseed |
| Cost | \$350 - \$450 |
| Total Points | 45 |
| Rank | High |

IDENTIFICATION #20

Town
Lake George

Road Name Route 9

Jurisdiction State

Watershed English Brook



| | |
|--|---|
| Direct connection to water | Yes |
| % of Vegetation | 15 |
| Bank Slope | Steep |
| Level of Erosion | High |
| Length of Erosion (ft) | 30 |
| Width of Erosion (ft) | 50 |
| Total Area of Erosion (ft ²) | 1500 |
| Soil Type | Gravelly sand, silty clay loam |
| Management Recommendations | Stabilize toe, hydroseed with bonded fiber matrix, add plants |
| Cost | \$3000 - \$4000 |
| Total Points | 40 |
| Rank | High |

IDENTIFICATION #21

Town
Lake George

Road Name Route 9N

Jurisdiction State

Watershed Lake George



| | |
|--|--|
| Direct connection to water | No |
| % of Vegetation | 20 |
| Bank Slope | Steep |
| Level of Erosion | Moderate |
| Length of Erosion (ft) | 260 |
| Width of Erosion (ft) | 10 |
| Total Area of Erosion (ft ²) | 2600 |
| Soil Type | Cobbly sandy loam |
| Management Recommendations | Hydroseed with polymer, crown vetch and clover |
| Cost | \$700 - \$900 |
| Total Points | 40 |
| Rank | High |

TOWNS OF LAKE GEORGE & QUEENSBURY

| IDENTIFICATION #18 | | IDENTIFICATION #26 | |
|--|---|--|---|
| Town Lake George |  | Town Queensbury |  |
| Road Name | Bloody Pond Road | Road Name | Glen Lake Road |
| Jurisdiction | County | Jurisdiction | Town |
| Watershed | East Brook | Watershed | Halfway Brook |
| Direct connection to water | No | Direct connection to water | No |
| % of Vegetation | 30 | % of Vegetation | 40 |
| Bank Slope | Steep | Bank Slope | Steep |
| Level of Erosion | Low | Level of Erosion | High |
| Length of Erosion (ft) | 250 | Length of Erosion (ft) | 160 |
| Width of Erosion (ft) | 25 | Width of Erosion (ft) | 8 |
| Total Area of Erosion (ft ²) | 6250 | Total Area of Erosion (ft ²) | 1280 |
| Soil Type | Cobbly sandy loam | Soil Type | Gravelly sand |
| Management Recommendations | Hydroseed with polymer | Management Recommendations | Hydroseed, consider polymer |
| Cost | \$400 | Cost | \$300 - \$400 |
| Total Points | 36 | Total Points | 40 |
| Rank | Moderate | Rank | High |
| IDENTIFICATION #27 | | IDENTIFICATION #31 | |
| Town Queensbury |  | Town Queensbury |  |
| Road Name | Glen Lake Road | Road Name | Butler Pond Road |
| Jurisdiction | Town | Jurisdiction | Town |
| Watershed | Halfway Brook | Watershed | Halfway Brook |
| Direct connection to water | No | Direct connection to water | Yes - Stream |
| % of Vegetation | 5 | % of Vegetation | 30 |
| Bank Slope | Steep | Bank Slope | Steep |
| Level of Erosion | High | Level of Erosion | Moderate |
| Length of Erosion (ft) | 285 | Length of Erosion (ft) | 300 |
| Width of Erosion (ft) | 10 | Width of Erosion (ft) | 20 |
| Total Area of Erosion (ft ²) | 2850 | Total Area of Erosion (ft ²) | 6000 |
| Soil Type | Cobbly sandy loam | Soil Type | Bouldery, fine sandy loam |
| Management Recommendations | Hydroseed with polymer | Management Recommendations | Plant native, deep rooted vegetation |
| Cost | \$900 - \$ 1000 | Cost | \$1500 - \$2000 |
| Total Points | 50 | Total Points | 45 |
| Rank | High | Rank | High |

IDENTIFICATION #32

Town
Queensbury

Road Name Buckbee Road

Jurisdiction Town

Watershed Halfway Brook



Direct connection to water Yes - Culvert

% of Vegetation 5

Bank Slope Steep

Level of Erosion High

Length of Erosion (ft) 200

Width of Erosion (ft) 8

Total Area of Erosion (ft²) 1600

Soil Type Bouldery, fine sandy loam

Management Recommendations Re-grade, remove weight on bank, rock stacked revetment

Cost \$600 - \$850

Total Points 55

Rank Moderate

IDENTIFICATION #33

Town
Queensbury

Road Name Buckbee Road

Jurisdiction Town

Watershed Halfway Brook



Direct connection to water Yes - Culvert

% of Vegetation 30

Bank Slope Steep

Level of Erosion Moderate

Length of Erosion (ft) 450

Width of Erosion (ft) 10

Total Area of Erosion (ft²) 4500

Soil Type Bouldery, fine sandy loam

Management Recommendations Hydroseed with polymer and clover

Cost \$1350 - \$1500

Total Points 50

Rank High

IDENTIFICATION #24

Town
Queensbury

Road Name Ridge Road/ RT 9L

Jurisdiction State

Watershed Halfway Brook



Direct connection to water No

% of Vegetation 35

Bank Slope Moderate

Level of Erosion Moderate

Length of Erosion (ft) 200

Width of Erosion (ft) 20

Total Area of Erosion (ft²) 4000

Soil Type Loamy fine sand

Management Recommendations Hydroseed with tackifier

Cost \$800 - \$900

Total Points 35

Rank Moderate

IDENTIFICATION #28

Town
Queensbury

Road Name Glen Lake Road

Jurisdiction Town

Watershed Halfway Brook



Direct connection to water No

% of Vegetation 40

Bank Slope Moderate

Level of Erosion Moderate

Length of Erosion (ft) 1500

Width of Erosion (ft) 8

Total Area of Erosion (ft²) 12000


Soil Type Gravelly sand



Management Recommendations Hydroseed

Cost \$2400 - \$3000

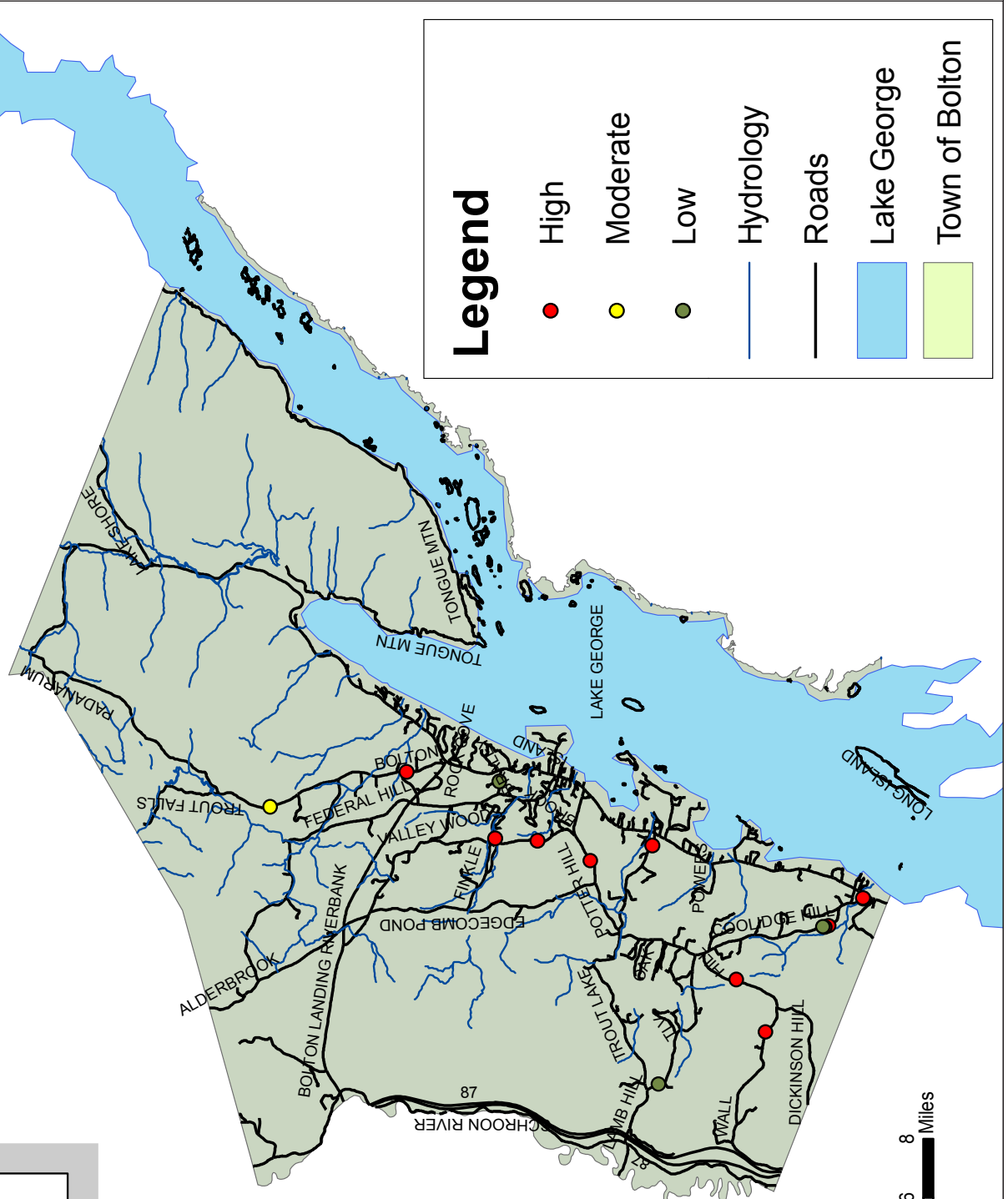
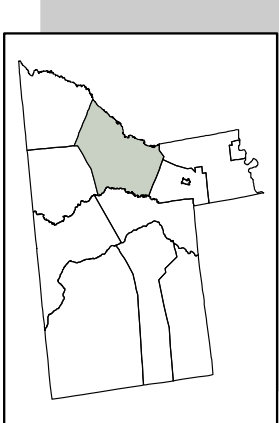
Total Points 35

Rank Moderate

| IDENTIFICATION #29 | | IDENTIFICATION #34 | |
|--|---|--|---|
| Town Queensbury |  | Town Queensbury |  |
| Road Name | Butler Pond Road | Road Name | Birdsall Road |
| Jurisdiction | Town | Jurisdiction | Town |
| Watershed | Halfway Brook | Watershed | Halfway Brook |
| Direct connection to water | No | Direct connection to water | No |
| % of Vegetation | 30 | % of Vegetation | 50 |
| Bank Slope | Moderate | Bank Slope | Moderate |
| Level of Erosion | Moderate | Level of Erosion | Low |
| Length of Erosion (ft) | 300 | Length of Erosion (ft) | 150 |
| Width of Erosion (ft) | 20 | Width of Erosion (ft) | 20 |
| Total Area of Erosion (ft ²) | 6000 | Total Area of Erosion (ft ²) | 3000 |
| Soil Type | Loamy fine sand | Soil Type | Gravelly sand |
| Management Recommendations | Install fabric, stone and large plantings | Management Recommendations | Hydroseed |
| Cost | \$1200 - \$1500 | Cost | \$600 - \$700 |
| Total Points | 35 | Total Points | 31 |
| Rank | Moderate | Rank | Moderate |
| IDENTIFICATION #22 | | IDENTIFICATION #23 | |
| Town Queensbury |  | Town Queensbury |  |
| Road Name | Pickle Hill Road | Road Name | Jenkinsville Road |
| Jurisdiction | Town | Jurisdiction | Town |
| Watershed | Lake George | Watershed | Halfway Brook |
| Direct connection to water | No | Direct connection to water | No |
| % of Vegetation | 30 | % of Vegetation | 25 |
| Bank Slope | Moderate | Bank Slope | Moderate |
| Level of Erosion | Moderate | Level of Erosion | Low |
| Length of Erosion (ft) | 140 | Length of Erosion (ft) | 350 |
| Width of Erosion (ft) | 6 | Width of Erosion (ft) | 4 |
| Total Area of Erosion (ft ²) | 840 | Total Area of Erosion (ft ²) | 1400 |
| Soil Type | Fine sandy loam | Soil Type | Cobbly sandy loam |
| Management Recommendations | Remove weight, hydroseed with tackifier and clover | Management Recommendations | Re-grade bank and hydroseed |
| Cost | \$300 - \$400 | Cost | \$300 - \$400 |
| Total Points | 25 | Total Points | 26 |
| Rank | Low | Rank | Low |

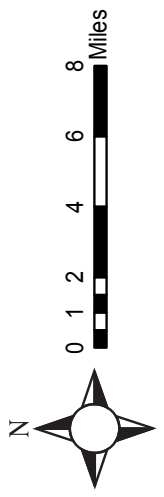
| IDENTIFICATION #25 | | IDENTIFICATION #30 | |
|--|---|--|---|
| Town Queensbury |  | Town Queensbury |  |
| Road Name | Walk Up Road | Road Name | Butler Pond Road |
| Jurisdiction | Town | Jurisdiction | Town |
| Watershed | Halfway Brook | Watershed | Halfway Brook |
| Direct connection to water | No | Direct connection to water | No |
| % of Vegetation | 30 | % of Vegetation | 10 |
| Bank Slope | Steep | Bank Slope | Moderate |
| Level of Erosion | Moderate | Level of Erosion | Moderate |
| Length of Erosion (ft) | 150 | Length of Erosion (ft) | 220 |
| Width of Erosion (ft) | 10 | Width of Erosion (ft) | 6 |
| Total Area of Erosion (ft ²) | 1500 | Total Area of Erosion (ft ²) | 1320 |
| Soil Type | Loamy fine sand | Soil Type | Bouldery, fine sandy loam |
| Management Recommendations | Hydroseed | Management Recommendations | Hydroseed with clover |
| Cost | \$300 - \$400 | Cost | \$350 - \$450 |
| Total Points | 30 | Total Points | 30 |
| Rank | Low | Rank | Low |

Town of Bolton ARRA Roadside Erosion Inventory Project

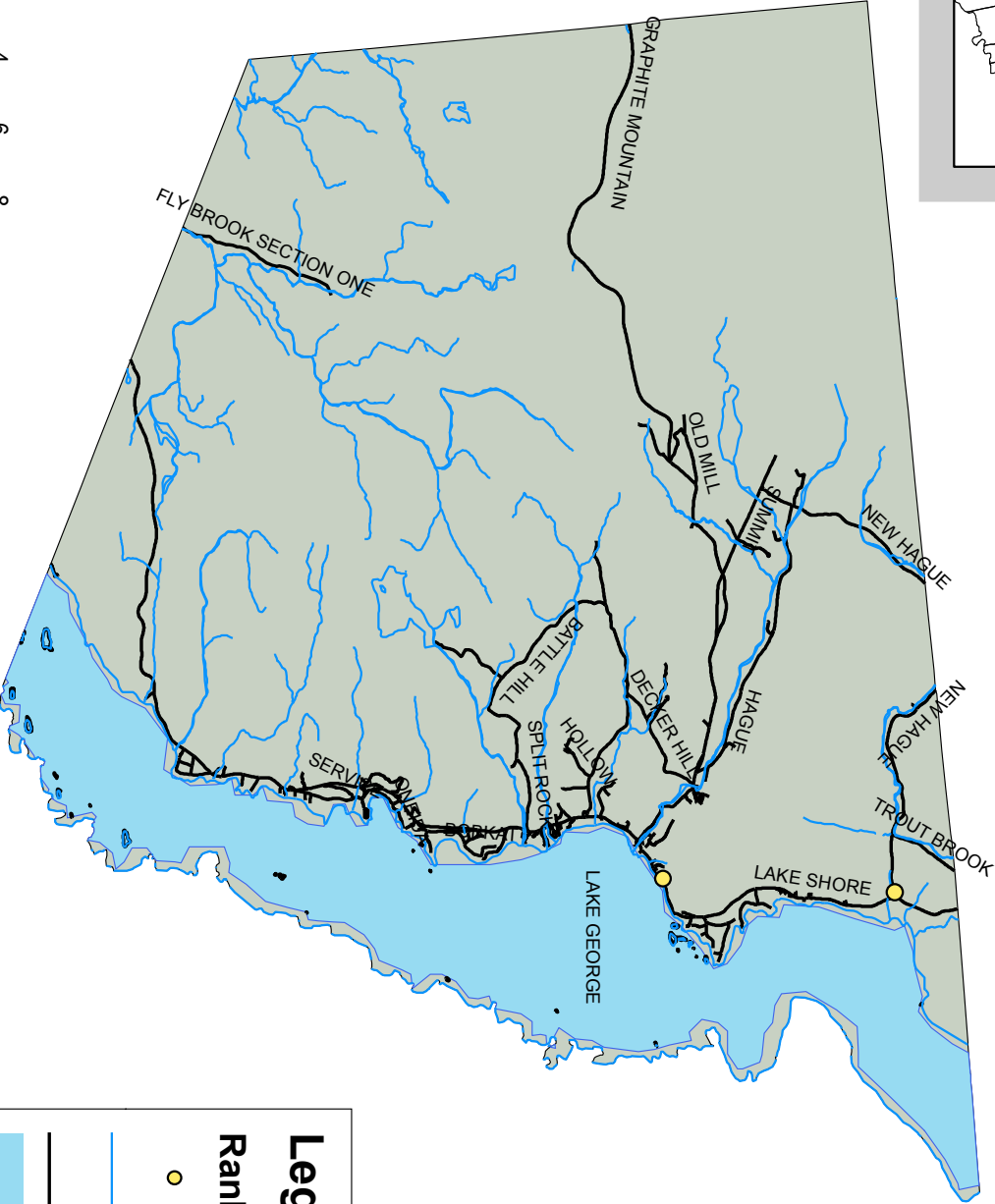
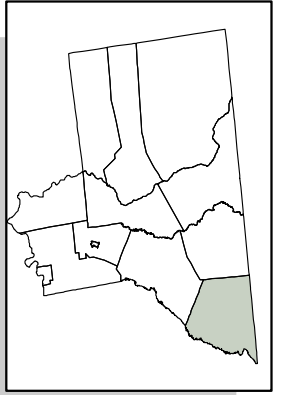


Legend

- High (Red dot)
- Moderate (Yellow dot)
- Low (Green dot)
- Hydrology (Blue line)
- Roads (Black line)
- Lake George (Light blue area)
- Town of Bolton (Light green area)








Town of Hague ARRA Roadside Erosion Inventory Project

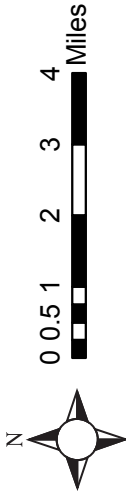
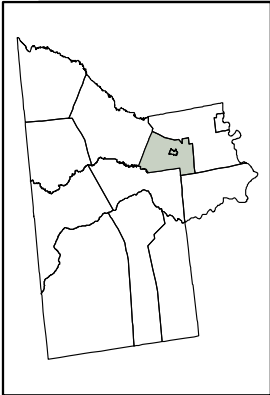


Legend

Ranking

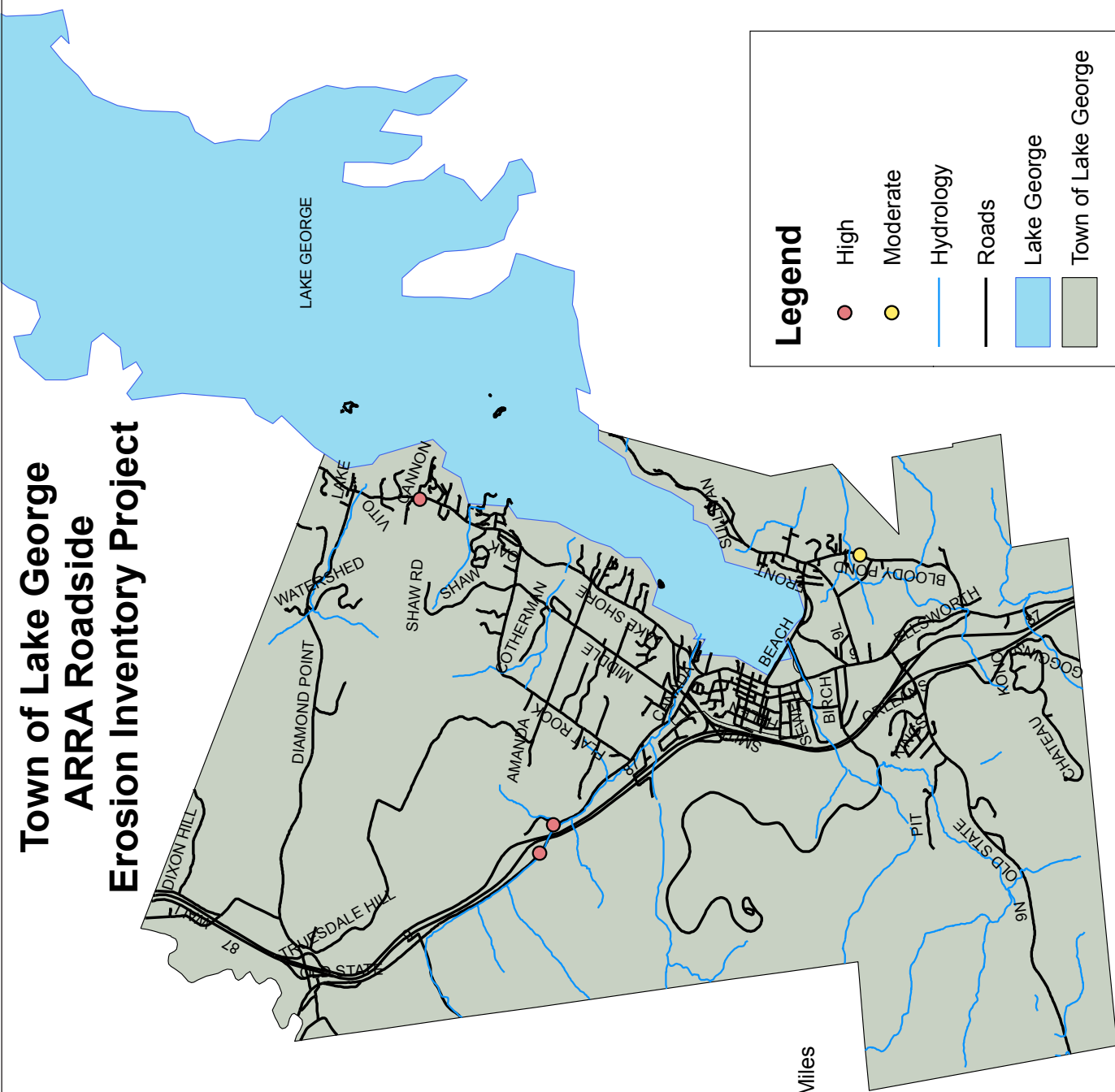
-  Moderate
-  Hydrology
-  Roads
-  Lake George
-  Town of Hague

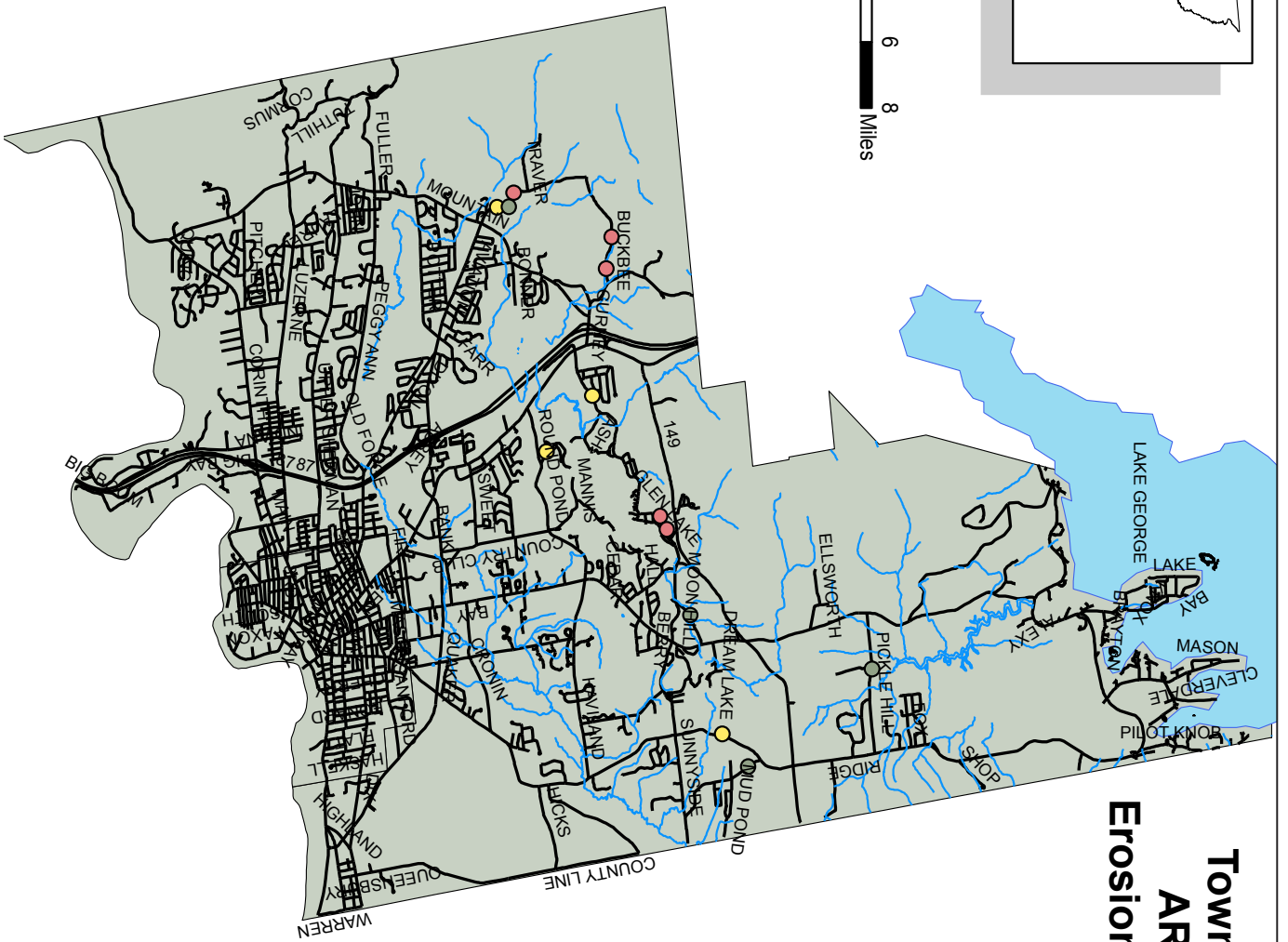
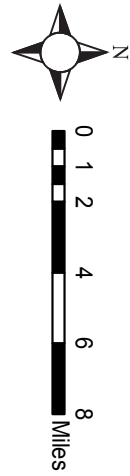
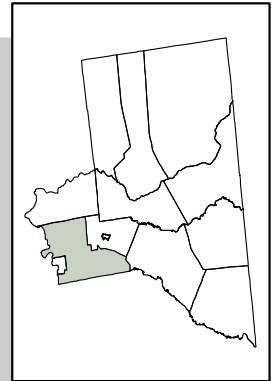
Town of Lake George ARRA Roadside Erosion Inventory Project



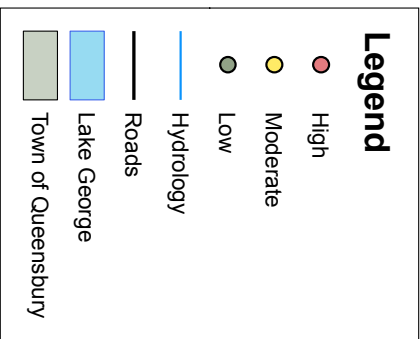
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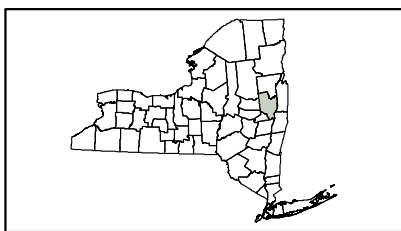
- High
- Moderate
- Hydrology
- Roads
- Lake George
- Town of Lake George



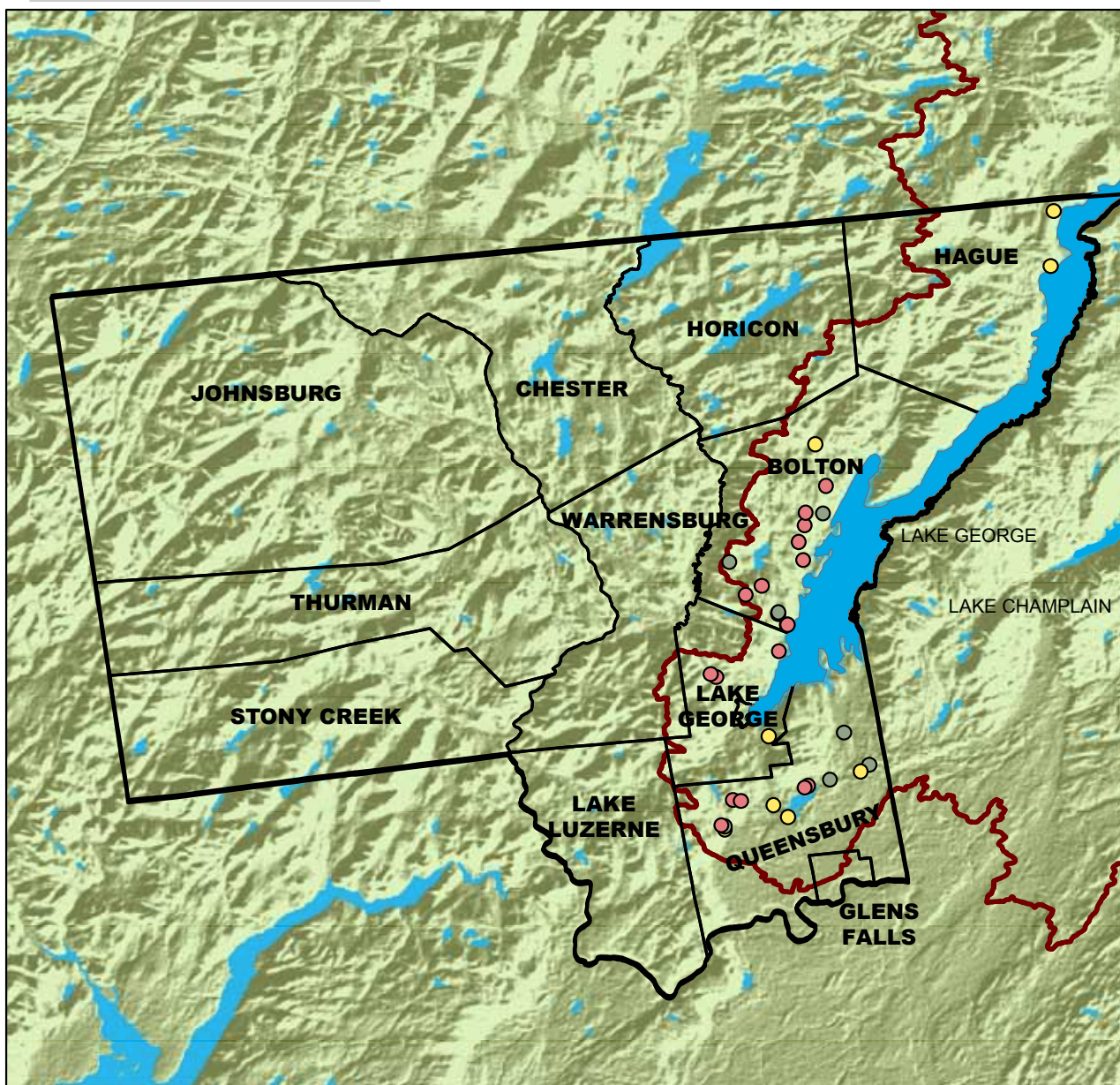


**Town of Queensbury
ARRA Roadside
Erosion Inventory Project**





**American Recovery and Reinvestment Act
Roadside Erosion Inventory Project
Warren County, New York**



Legend

| | | |
|----------------------------|------------|--------------------------|
| Site Ranking | High | Warren County |
| | Moderate | Warren County Towns |
| | Low | Lake Champlain Watershed |
| | | Lake/Pond |
| Elevation in meters | | |
| | High : 255 | |
| | Low : 0 | |

WASHINGTON COUNTY



TOWN OF PUTNAM

PHOTO COURTESY OF CARL HEILMAN II

Washington County straddles the southern Lake Champlain and upper Hudson River watershed divide in New York. The northern and western borders of the county are drawn by the shorelines of Lake Champlain and Lake George, respectively. The Lake Champlain Watershed is comprised predominantly of rural farmland and woodland, encompassing eight towns and four villages. Population centers in the county include the Village of Granville on the shores of the Mettawee River and the Village of Whitehall on the shores of southern Lake Champlain.

Similar to Clinton County, clays and loams are the principal soils throughout the low-lying agricultural lands while sand and gravel soils are primarily found throughout woodland areas. Hundreds of miles of high quality stream networks and acres of wetlands outlet into two main rivers; the Mettawee River and the Poultney River. Both rivers originate in the State of Vermont, cross state lines, and flow through Washington County until they discharge into southern Lake Champlain. The Mettawee River is important to local anglers

for its trout habitat and the Poultney River shoreline spans for 20 miles as undeveloped, highly diverse, natural shoreline. The remaining areas with Washington County discharge into the western portion of Lake George and southern Lake Champlain.

Thirty one roadside erosion sites (12 High Priority, 11 Moderate Priority, and 8 Low Priority) were identified in Washington County throughout eight municipalities on state, county and local roads. Most of these sites are found within areas with highly erodible sand and gravel soils, which is consistent with findings throughout the watershed. The predominant recommendations for remediating the identified sites are hydroseeding, re-grading and stabilizing slopes and installing erosion and sediment control structures. The remediation cost for the sites range from \$300 to \$15,000. The cumulative site assessment for the 31 sites in Washington County totals \$65,750.

WASHINGTON COUNTY SITES

TOWN | MAJOR SUBWATERSHEDS | ROADS

| Town | Number of Sites per Priority | | | Percentage of sites in County |
|-----------|------------------------------|----------|-----|-------------------------------|
| | High | Moderate | Low | |
| Dresden | 0 | 0 | 1 | 3% |
| Fort Ann | 2 | 4 | 1 | 23% |
| Granville | 1 | 0 | 1 | 6% |
| Hampton | 1 | 0 | 1 | 6% |
| Hartford | 2 | 2 | 1 | 16% |
| Kingsbury | 1 | 0 | 1 | 6% |
| Putnam | 2 | 1 | 1 | 13% |
| Whitehall | 3 | 4 | 1 | 27% |

| Major Subwatershed | Number of Sites per Priority | | | Percentage of sites in County |
|----------------------|------------------------------|----------|-----|-------------------------------|
| | High | Moderate | Low | |
| Halfway Brook | 0 | 1 | 1 | 6% |
| Champlain Canal | 1 | 0 | 0 | 3% |
| Lake George | 2 | 2 | 1 | 16% |
| Mettawee River | 3 | 4 | 2 | 29% |
| Poultney River | 1 | 0 | 1 | 6% |
| South Lake Champlain | 5 | 4 | 3 | 40% |

| Road Jurisdiction | Number of Sites per Priority | | | Percentage of sites in County |
|-------------------|------------------------------|----------|-----|-------------------------------|
| | High | Moderate | Low | |
| State Roads | 1 | 0 | 0 | 3% |
| County Roads | 3 | 2 | 1 | 19% |
| Town Roads | 7 | 9 | 7 | 75% |
| Private Roads | 1 | 0 | 0 | 3% |

IDENTIFICATION #24

Town
Dresden

Road Name Clemmons Road

Jurisdiction Town

Watershed S. Lake Champlain



| | |
|--|---|
| Direct connection to water | Yes - Wetland |
| % of Vegetation | 10 |
| Bank Slope | Moderate |
| Level of Erosion | Low |
| Length of Erosion (ft) | 75 |
| Width of Erosion (ft) | 10 |
| Total Area of Erosion (ft ²) | 750 |
| Soil Type | Sand |
| Management Recommendations | Stabilize with french drains, install E&SC blankets and hydroseed with conservation mix and soil amendments |
| Cost | \$500 - \$600 |
| Total Points | 30 |
| Rank | Low |

IDENTIFICATION #20

Town
Fort Ann

Road Name Lake Nebo Road

Jurisdiction Town

Watershed Lake George



| | |
|--|---|
| Direct connection to water | Yes - Stream |
| % of Vegetation | 0 |
| Bank Slope | Steep |
| Level of Erosion | Moderate |
| Length of Erosion (ft) | 100 |
| Width of Erosion (ft) | 10 |
| Total Area of Erosion (ft ²) | 1000 |
| Soil Type | Sand |
| Management Recommendations | Stabilize with E&SC blankets and stone and hydroseed with soil amendments |
| Cost | \$1500 - \$1750 |
| Total Points | 45 |
| Rank | High |

IDENTIFICATION #23

Town
Fort Ann

Road Name Hogtown Road

Jurisdiction Town

Watershed S. Lake Champlain



| | |
|--|---|
| Direct connection to water | Yes |
| % of Vegetation | 0 |
| Bank Slope | Moderate |
| Level of Erosion | Moderate |
| Length of Erosion (ft) | 100 |
| Width of Erosion (ft) | 50 |
| Total Area of Erosion (ft ²) | 5000 |
| Soil Type | Sandy loam |
| Management Recommendations | Install E&SC blankets and hydroseed with conservation mix and soil amendments |
| Cost | \$5500 - \$6000 |
| Total Points | 50 |
| Rank | High |

IDENTIFICATION #0

Town
Fort Ann

Road Name Burquist Road

Jurisdiction Town

Watershed Halfway Brook



| | |
|--|--|
| Direct connection to water | Yes - Stream |
| % of Vegetation | 30 |
| Bank Slope | Steep |
| Level of Erosion | Low |
| Length of Erosion (ft) | 150 |
| Width of Erosion (ft) | 10 |
| Total Area of Erosion (ft ²) | 1500 |
| Soil Type | Sand |
| Management Recommendations | Hydroseed with conservation mix, soluble fertilizers and tackifier |
| Cost | \$400 - \$500 |
| Total Points | 36 |
| Rank | Moderate |

| IDENTIFICATION #27 | | IDENTIFICATION #29 | |
|--|---|--|---|
| Town Fort Ann |  | Town Fort Ann |  |
| Road Name Copeland Pond Road | | Road Name Hogtown Road | |
| Jurisdiction Town | | Jurisdiction Town | |
| Watershed Lake George | | Watershed S. Lake Champlain | |
| Direct connection to water | No | Direct connection to water | No |
| % of Vegetation | 20 | % of Vegetation | 20 |
| Bank Slope | Steep | Bank Slope | Steep |
| Level of Erosion | Moderate | Level of Erosion | Moderate |
| Length of Erosion (ft) | 20 | Length of Erosion (ft) | 50 |
| Width of Erosion (ft) | 5 | Width of Erosion (ft) | 10 |
| Total Area of Erosion (ft ²) | 100 | Total Area of Erosion (ft ²) | 500 |
| Soil Type | Sand | Soil Type | Sand |
| Management Recommendations | Re-grade slope, stabilize with E&SC blankets and hydroseeding with conservation mix and soil amendments | Management Recommendations | Re-grade slope, stabilize with E&SC blankets and hydroseeding with conservation mix and soil amendments |
| Cost | \$350 - \$400 | Cost | \$600 - \$650 |
| Total Points | 35 | Total Points | 35 |
| Rank | Moderate | Rank | Moderate |
| IDENTIFICATION #30 | | IDENTIFICATION #28 | |
| Town Fort Ann |  | Town Fort Ann |  |
| Road Name Kelsey Pond Road | | Road Name Copeland Pond Road | |
| Jurisdiction Town | | Jurisdiction Town | |
| Watershed S. Lake Champlain | | Watershed Lake George | |
| Direct connection to water | No | Direct connection to water | No |
| % of Vegetation | 10 | % of Vegetation | 75 |
| Bank Slope | Moderate | Bank Slope | Steep |
| Level of Erosion | Low | Level of Erosion | Moderate |
| Length of Erosion (ft) | 200 | Length of Erosion (ft) | 75 |
| Width of Erosion (ft) | 5 | Width of Erosion (ft) | 10 |
| Total Area of Erosion (ft ²) | 1000 | Total Area of Erosion (ft ²) | 750 |
| Soil Type | Gravel | Soil Type | Sand |
| Management Recommendations | Re-grade slope, stabilize with E&SC blankets and hydroseeding with conservation mix and soil amendments | Management Recommendations | Re-grade slope, stabilize with E&SC blankets and hydroseeding with conservation mix and soil amendments |
| Cost | \$2250 - \$3000 | Cost | \$650 - \$700 |
| Total Points | 36 | Total Points | 25 |
| Rank | Moderate | Rank | Low |

IDENTIFICATION #7

Town
Granville

Road Name Cross Road

Jurisdiction Town

Watershed Mettawee River

| | |
|--|--|
| Direct connection to water | Yes |
| % of Vegetation | 25 |
| Bank Slope | Steep |
| Level of Erosion | High |
| Length of Erosion (ft) | 2000 |
| Width of Erosion (ft) | 15 |
| Total Area of Erosion (ft ²) | 30,000 |
| Soil Type | Gravelly sand |
| Management Recommendations | Re-grade slope with E&SC blankets and hydroseeding with conservation mix and soil amendments |
| Cost | \$5500 - \$6000 |
| Total Points | 60 |
| Rank | High |

IDENTIFICATION #9

Town
Granville

Road Name Conety Road

Jurisdiction Town

Watershed Mettawee River

| | |
|--|--|
| Direct connection to water | Yes - Pond |
| % of Vegetation | 75 |
| Bank Slope | Moderate |
| Level of Erosion | Low |
| Length of Erosion (ft) | 200 |
| Width of Erosion (ft) | 3 |
| Total Area of Erosion (ft ²) | 600 |
| Soil Type | Loose gravel |
| Management Recommendations | Stabilize with french drains and hydroseed with conservation mix and soil amendments |
| Cost | \$3500 - \$4000 |
| Total Points | 16 |
| Rank | Low |

IDENTIFICATION #10

Town
Hampton

Road Name Hickey Road

Jurisdiction Town

Watershed Poultney River

| | |
|--|---|
| Direct connection to water | Yes - Stream |
| % of Vegetation | 15 |
| Bank Slope | Steep |
| Level of Erosion | Low |
| Length of Erosion (ft) | 300 |
| Width of Erosion (ft) | 3 |
| Total Area of Erosion (ft ²) | 900 |
| Soil Type | Gravel |
| Management Recommendations | Construct retaining wall or cribs and hydroseed |
| Cost | \$12,000 - \$15,000 |
| Total Points | 51 |
| Rank | High |

IDENTIFICATION #11

Town
Hampton

Road Name Hickey Road

Jurisdiction Town


Watershed Poultney River

| | |
|--|--|
| Direct connection to water | No |
| % of Vegetation | 15 |
| Bank Slope | Gradual |
| Level of Erosion | Low |
| Length of Erosion (ft) | 300 |
| Width of Erosion (ft) | 3 |
| Total Area of Erosion (ft ²) | 900 |
| Soil Type | Gravel |
| Management Recommendations | Re-grade swale and hydroseed with conservation mix and soil amendments |
| Cost | \$550 - \$650 |
| Total Points | 22 |
| Rank | Low |

IDENTIFICATION #6 IDENTIFICATION #19

| | | | |
|--|---|--|---|
| Town Hartford |  | Town Hartford |  |
| Road Name Warren Road | | Road Name State Route 149 | |
| Jurisdiction Town | | Jurisdiction State | |
| Watershed S. Lake Champlain | | Watershed S. Lake Champlain | |
| Direct connection to water | Yes - Culvert | Direct connection to water | Yes - Stream |
| % of Vegetation | 15 | % of Vegetation | 35 |
| Bank Slope | Steep | Bank Slope | Moderate |
| Level of Erosion | High | Level of Erosion | Moderate |
| Length of Erosion (ft) | 20 | Length of Erosion (ft) | 75 |
| Width of Erosion (ft) | 10 | Width of Erosion (ft) | 100 |
| Total Area of Erosion (ft ²) | 200 | Total Area of Erosion (ft ²) | 7500 |
| Soil Type | Gravel | Soil Type | Sandy gravel |
| Management Recommendations | Regrade, install stone and hydroseed with conservation mix | Management Recommendations | Hydroseed with conservation mix and soil amendments |
| Cost | \$3000 - \$3750 | Cost | \$450 - \$550 |
| Total Points | 50 | Total Points | 45 |
| Rank | High | Rank | High |

IDENTIFICATION #4 IDENTIFICATION #8

| | | | |
|--|---|--|---|
| Town Hartford |  | Town Hartford |  |
| Road Name Warren Road | | Road Name Washburn Hill Road | |
| Jurisdiction Town | | Jurisdiction Town | |
| Watershed S. Lake Champlain | | Watershed S. Lake Champlain | |
| Direct connection to water | Yes | Direct connection to water | Yes |
| % of Vegetation | 50 | % of Vegetation | 50 |
| Bank Slope | Gradual | Bank Slope | Moderate |
| Level of Erosion | Moderate | Level of Erosion | Moderate |
| Length of Erosion (ft) | 200 | Length of Erosion (ft) | 500 |
| Width of Erosion (ft) | 1 | Width of Erosion (ft) | 1 |
| Total Area of Erosion (ft ²) | 200 | Total Area of Erosion (ft ²) | 500 |
| Soil Type | Gravel | Soil Type | Silt |
| Management Recommendations | Re-shape ditch and hydroseed with conservation mix and soil amendments | Management Recommendations | Hydroseed with conservation mix |
| Cost | \$300 - \$500 | Cost | \$300 - \$400 |
| Total Points | 31 | Total Points | 35 |
| Rank | Moderate | Rank | Moderate |

| IDENTIFICATION #5 | | IDENTIFICATION #3 | |
|--|---|--|---|
| Town Hartford |  | Town Kingsbury |  |
| Road Name | Warren Road | Road Name | County Route 41 |
| Jurisdiction | Town | Jurisdiction | County |
| Watershed | S. Lake Champlain | Watershed | Champlain Canal |
| Direct connection to water | No | Direct connection to water | Yes - Feeder Canal |
| % of Vegetation | 10 | % of Vegetation | 50 |
| Bank Slope | Moderate | Bank Slope | Steep |
| Level of Erosion | Low | Level of Erosion | Moderate |
| Length of Erosion (ft) | 200 | Length of Erosion (ft) | 75 |
| Width of Erosion (ft) | 1 | Width of Erosion (ft) | 25 |
| Total Area of Erosion (ft ²) | 200 | Total Area of Erosion (ft ²) | 1875 |
| Soil Type | Gravel | Soil Type | Sandy - limestone deposit |
| Management Recommendations | Hydroseed with conservation mix and soil amendments | Management Recommendations | Stabilize slope, construct containment earth dyke with water retention, stone-line outlet and hydroseed with conservation mix |
| Cost | \$350 - \$500 | Cost | \$3500 - \$4000 |
| Total Points | 26 | Total Points | 45 |
| Rank | Low | Rank | High |
| IDENTIFICATION #2 | | IDENTIFICATION #21 | |
| Town Kingsbury |  | Town Putnam |  |
| Road Name | County Route 36 | Road Name | County Route 1 |
| Jurisdiction | County | Jurisdiction | County |
| Watershed | Halfway Brook | Watershed | Lake George |
| Direct connection to water | Yes | Direct connection to water | No |
| % of Vegetation | 75 | % of Vegetation | 10 |
| Bank Slope | Gradual | Bank Slope | Moderate |
| Level of Erosion | Moderate | Level of Erosion | Moderate |
| Length of Erosion (ft) | 75 | Length of Erosion (ft) | 100 |
| Width of Erosion (ft) | 1 | Width of Erosion (ft) | 50 |
| Total Area of Erosion (ft ²) | 75 | Total Area of Erosion (ft ²) | 5000 |
| Soil Type | Silty loam | Soil Type | Sandy loam |
| Management Recommendations | Re-shape swale and hydroseed with conservation mix | Management Recommendations | Hydroseed with conservation mix and soil amendments |
| Cost | \$500 - \$750 | Cost | \$750 - \$1000 |
| Total Points | 26 | Total Points | 40 |
| Rank | Low | Rank | High |

| IDENTIFICATION #22 | | IDENTIFICATION #25 | |
|--|--|--|---|
| Town Putnam |  | Town Putnam |  |
| Road Name Best Road | | Road Name County Route 1 | |
| Jurisdiction Private | | Jurisdiction County | |
| Watershed S. Lake Champlain | | Watershed Lake George | |
| Direct connection to water | No | Direct connection to water | No |
| % of Vegetation | 0 | % of Vegetation | 25 |
| Bank Slope | Steep | Bank Slope | Steep |
| Level of Erosion | High | Level of Erosion | Low |
| Length of Erosion (ft) | 200 | Length of Erosion (ft) | 50 |
| Width of Erosion (ft) | 50 | Width of Erosion (ft) | 10 |
| Total Area of Erosion (ft ²) | 10,000 | Total Area of Erosion (ft ²) | 500 |
| Soil Type | Gravel | Soil Type | Sand |
| Management Recommendations | Re-grade slope, install E&CS blankets and hydroseed with reclamation mix and soil amendments | Management Recommendations | Re-grade slope and hydroseed with conservation mix and soil amendments |
| Cost | \$2000 - \$2500 | Cost | \$750 - \$1000 |
| Total Points | 50 | Total Points | 31 |
| Rank | High | Rank | Moderate |
| IDENTIFICATION #26 | | IDENTIFICATION #1 | |
| Town Putnam |  | Town Whitehall |  |
| Road Name Pulpit Point | | Road Name County Route 10 | |
| Jurisdiction Town | | Jurisdiction County | |
| Watershed S. Lake Champlain | | Watershed S. Lake Champlain | |
| Direct connection to water | No | Direct connection to water | Yes - Culvert |
| % of Vegetation | 30 | % of Vegetation | 0 |
| Bank Slope | Low | Bank Slope | Moderate |
| Level of Erosion | Low | Level of Erosion | Low |
| Length of Erosion (ft) | 100 | Length of Erosion (ft) | 500 |
| Width of Erosion (ft) | 20 | Width of Erosion (ft) | 2 |
| Total Area of Erosion (ft ²) | 2000 | Total Area of Erosion (ft ²) | 1000 |
| Soil Type | Gravel | Soil Type | Gravel |
| Management Recommendations | Hydroseed with conservation mix and soil amendments | Management Recommendations | Install 5 stone check dams and hydroseed with conservation mix |
| Cost | \$450 - \$500 | Cost | \$1300 - \$1500 |
| Total Points | 27 | Total Points | 40 |
| Rank | Low | Rank | High |

IDENTIFICATION #13

Town
Whitehall

Road Name Welch-Tanner-
Truthville
Intersection

Jurisdiction Town

Watershed Mettawee River



IDENTIFICATION #15

Town
Whitehall

Road Name Baker Road

Jurisdiction Town

Watershed Mettawee River



| | |
|--|---|
| Direct connection to water | No |
| % of Vegetation | 10 |
| Bank Slope | Steep |
| Level of Erosion | High |
| Length of Erosion (ft) | 73 |
| Width of Erosion (ft) | 2 |
| Total Area of Erosion (ft ²) | 146 |
| Soil Type | Gravel |
| Management Recommendations | Re-grade slope, install stone check dam and hydroseed with conservation mix and soil amendments |
| Cost | \$450 - \$550 |
| Total Points | 49 |
| Rank | High |

| | |
|--|---|
| Direct connection to water | Yes - Stream |
| % of Vegetation | 25 |
| Bank Slope | Moderate |
| Level of Erosion | Moderate |
| Length of Erosion (ft) | 150 |
| Width of Erosion (ft) | 2 |
| Total Area of Erosion (ft ²) | 300 |
| Soil Type | Gravel |
| Management Recommendations | Re-grade slope, install E&SC blankets and hydroseed with conservation mix and soil amendments |
| Cost | \$450 - \$550 |
| Total Points | 40 |
| Rank | High |

IDENTIFICATION #12

Town
Whitehall

Road Name Tanner Hill Road

Jurisdiction Town

Watershed Mettawee River



IDENTIFICATION #14

Town
Whitehall

Road Name Winters Road

Jurisdiction Town


Watershed Mettawee River



| | |
|--|--|
| Direct connection to water | No |
| % of Vegetation | 25 |
| Bank Slope | Steep |
| Level of Erosion | Low |
| Length of Erosion (ft) | 500 |
| Width of Erosion (ft) | 3 |
| Total Area of Erosion (ft ²) | 1500 |
| Soil Type | Gravel |
| Management Recommendations | Re-grade slope and hydroseed with conservation mix and soil amendments |
| Cost | \$750 - \$1200 |
| Total Points | 31 |
| Rank | Moderate |

| | |
|--|--|
| Direct connection to water | Yes - Stream |
| % of Vegetation | 0 |
| Bank Slope | Moderate |
| Level of Erosion | Low |
| Length of Erosion (ft) | 200 |
| Width of Erosion (ft) | 50 |
| Total Area of Erosion (ft ²) | 10,000 |
| Soil Type | Silt |
| Management Recommendations | Re-grade slope, install 2 check dams and hydroseed with conservation mix |
| Cost | \$2800 - \$3300 |
| Total Points | 36 |
| Rank | Moderate |

IDENTIFICATION #17

| | |
|---------------------------|---|
| Town Whitehall |  |
| Road Name County Route 12 | |
| Jurisdiction County | |
| Watershed Mettawee River | |


| | |
|--|--------------------------|
| Direct connection to water | Yes - Stream |
| % of Vegetation | 90 |
| Bank Slope | Steep |
| Level of Erosion | Moderate |
| Length of Erosion (ft) | 30 |
| Width of Erosion (ft) | 50 |
| Total Area of Erosion (ft ²) | 1500 |
| Soil Type | Sandy gravel |
| Management Recommendations | Install woody vegetation |
| Cost | \$350 - \$450 |
| Total Points | 31 |
| Rank | Moderate |

IDENTIFICATION #18

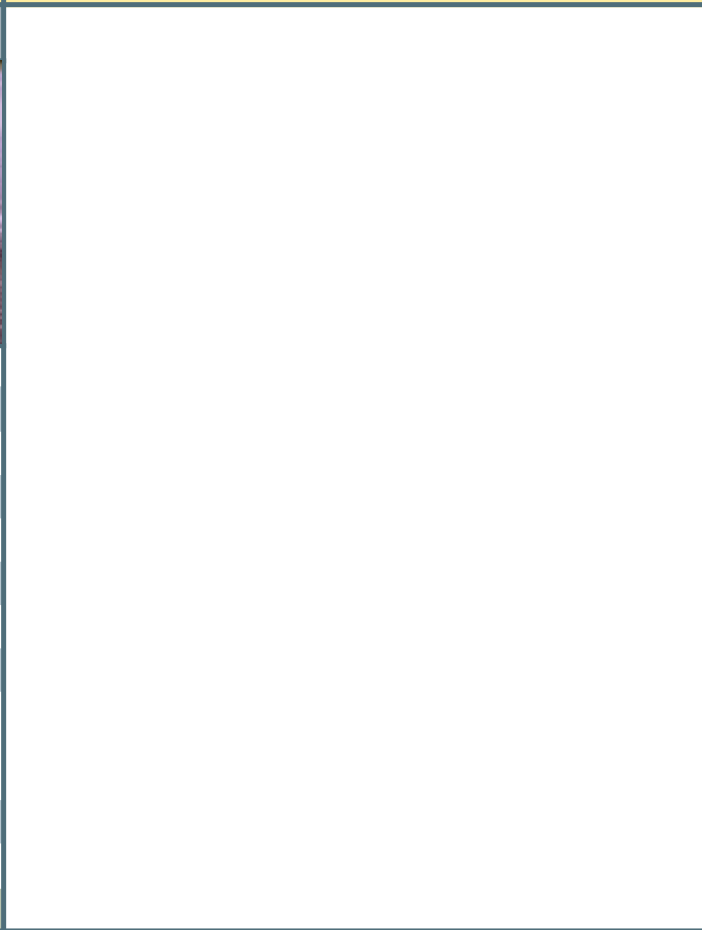
| | |
|--------------------------|---|
| Town Whitehall |  |
| Road Name Upper Turnpike | |
| Jurisdiction Town | |
| Watershed Mettawee River | |

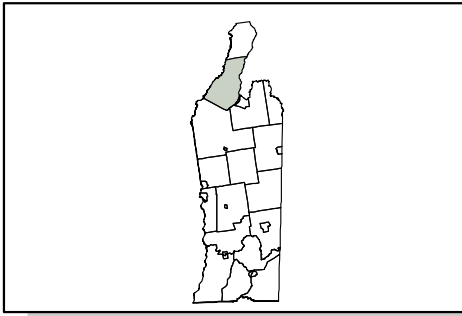
| | |
|--|--|
| Direct connection to water | No |
| % of Vegetation | 50 |
| Bank Slope | Steep |
| Level of Erosion | Low |
| Length of Erosion (ft) | 40 |
| Width of Erosion (ft) | 40 |
| Total Area of Erosion (ft ²) | 1600 |
| Soil Type | Sandy gravel |
| Management Recommendations | Re-grade slope and hydroseed with conservation mix and soil amendments |
| Cost | \$1500 - \$1750 |
| Total Points | 31 |
| Rank | Moderate |

IDENTIFICATION #16

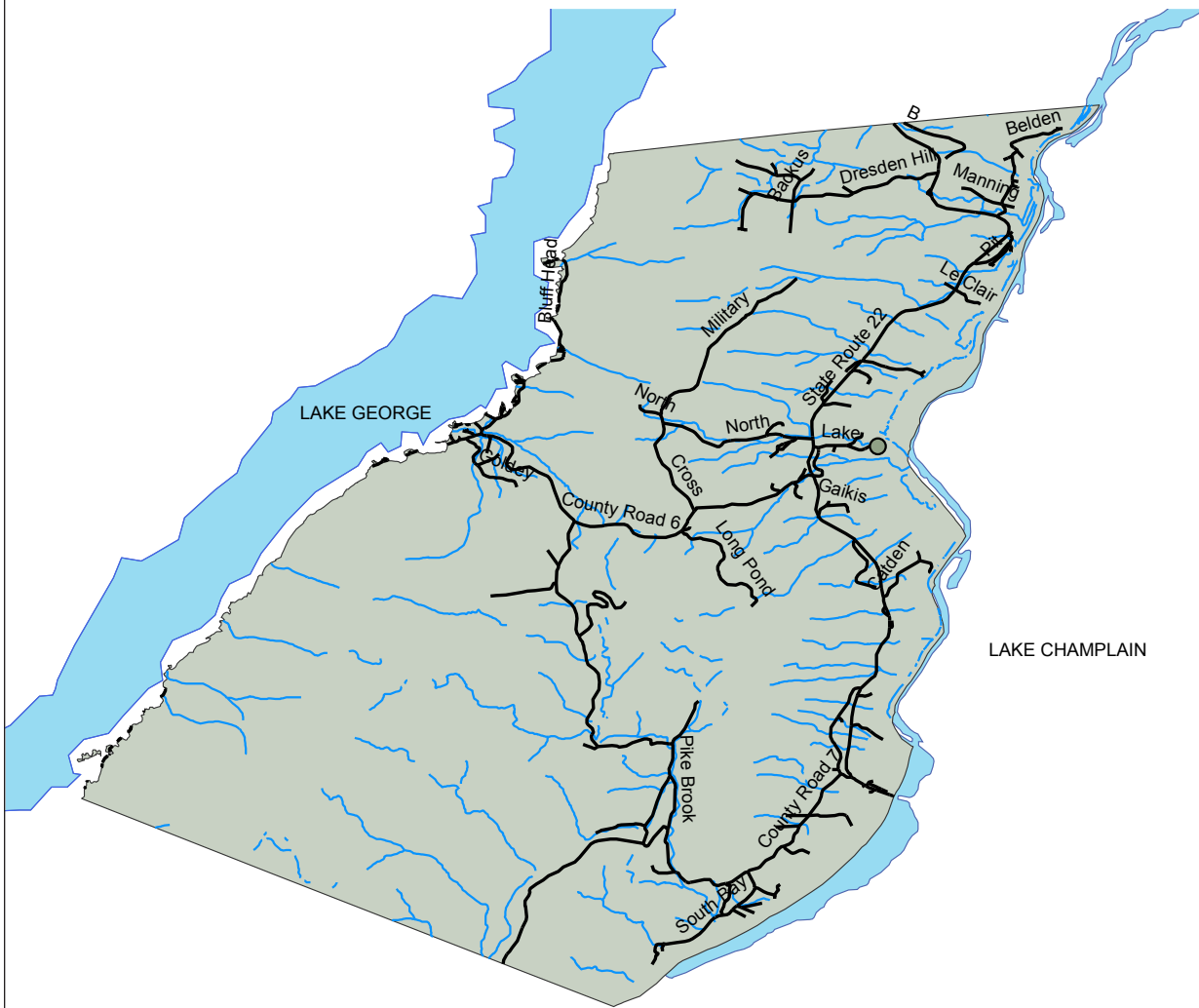
| | |
|--------------------------|---|
| Town Whitehall |  |
| Road Name Beckett Road | |
| Jurisdiction Town | |
| Watershed Mettawee River | |

| | |
|--|--|
| Direct connection to water | No |
| % of Vegetation | 25 |
| Bank Slope | Moderate |
| Level of Erosion | Low |
| Length of Erosion (ft) | 300 |
| Width of Erosion (ft) | 4 |
| Total Area of Erosion (ft ²) | 1200 |
| Soil Type | Gravel |
| Management Recommendations | Re-grade slope and hydroseed with conservation mix and soil amendments |
| Cost | \$1500 - \$1750 |
| Total Points | 26 |
| Rank | Low |



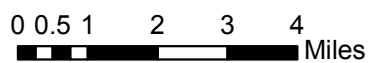


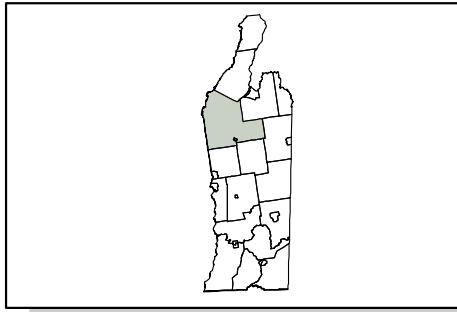
Town of Dresden ARRA Roadside Erosion Inventory Project



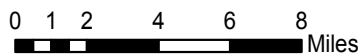
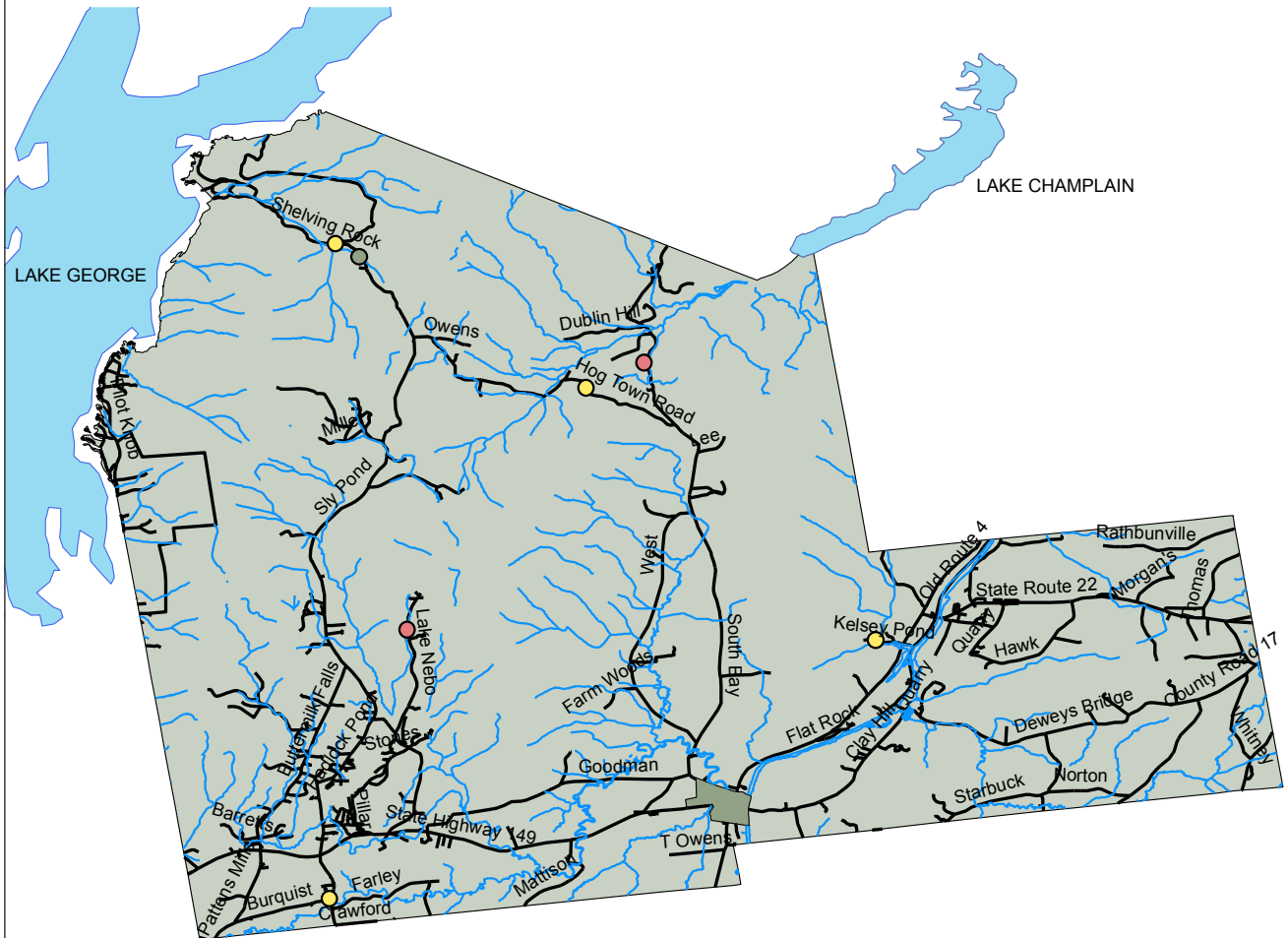
Legend

- Low
- Hydrology
- Roads
- Lake Champlain / Lake George
- Town of Dresden



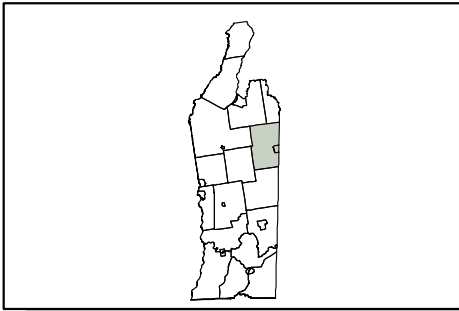


Town of Fort Ann ARRA Roadside Erosion Inventory Project

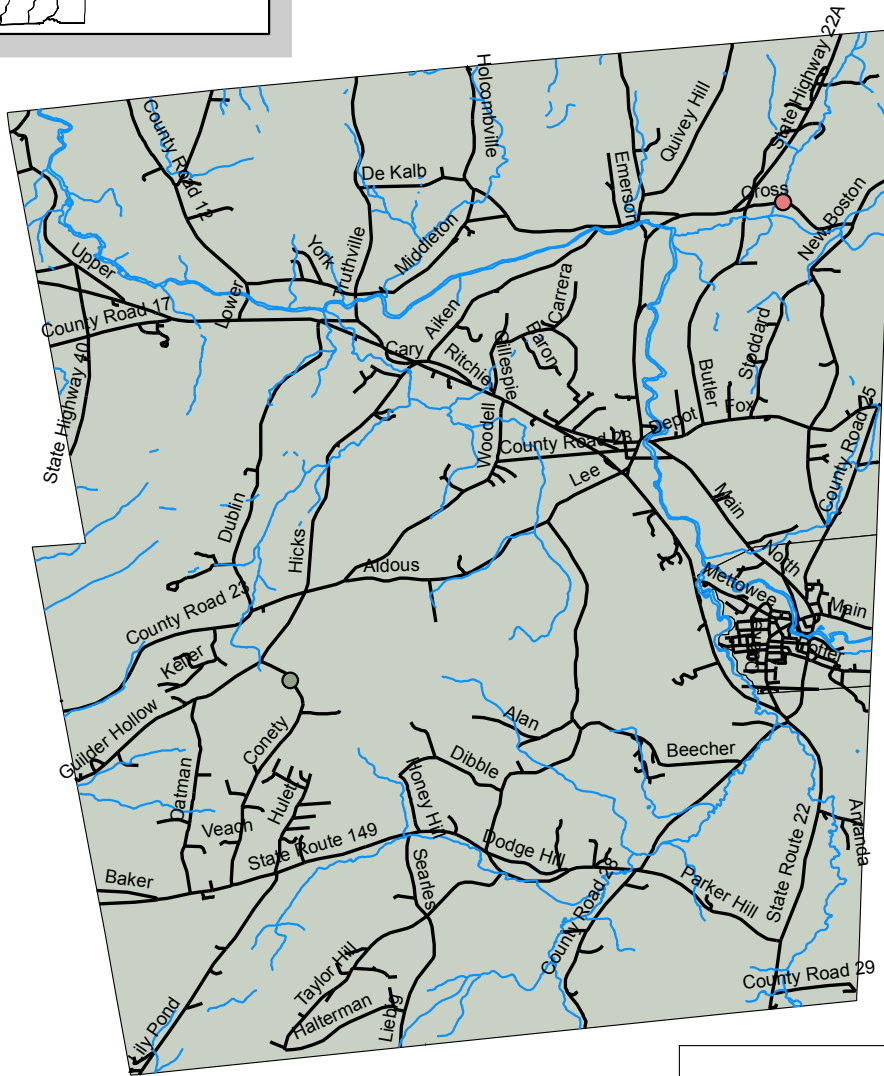


Legend

- High
- Medium
- Low
- Lake Champlain / Lake George
- Hydrology
- Roads
- Town of Fort Ann
- Village of Fort Ann

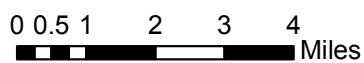


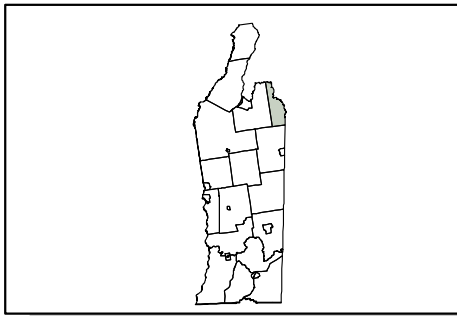
Town of Granville ARRA Roadside Erosion Inventory Project



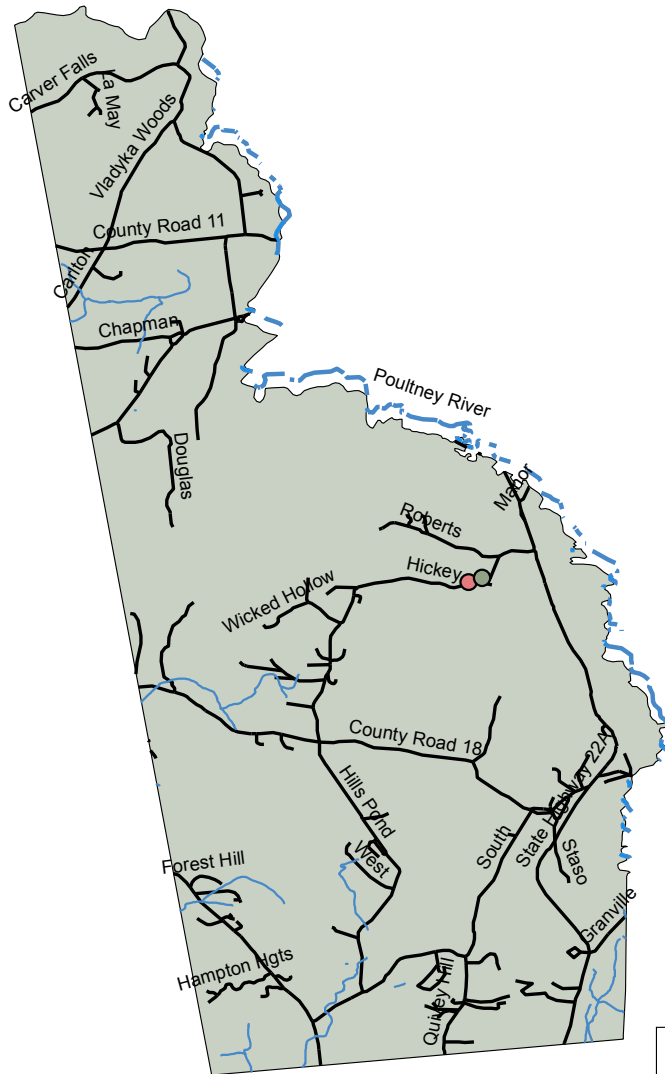
Legend

- High
- Low
- Hydrology
- Roads
- Town of Granville



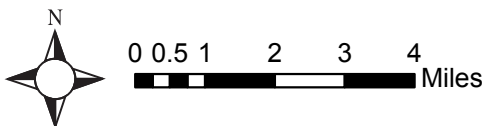


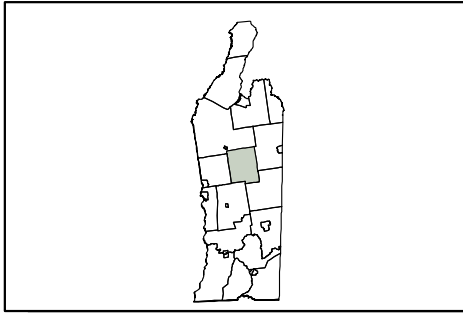
Town of Hampton ARRA Roadside Erosion Inventory Project



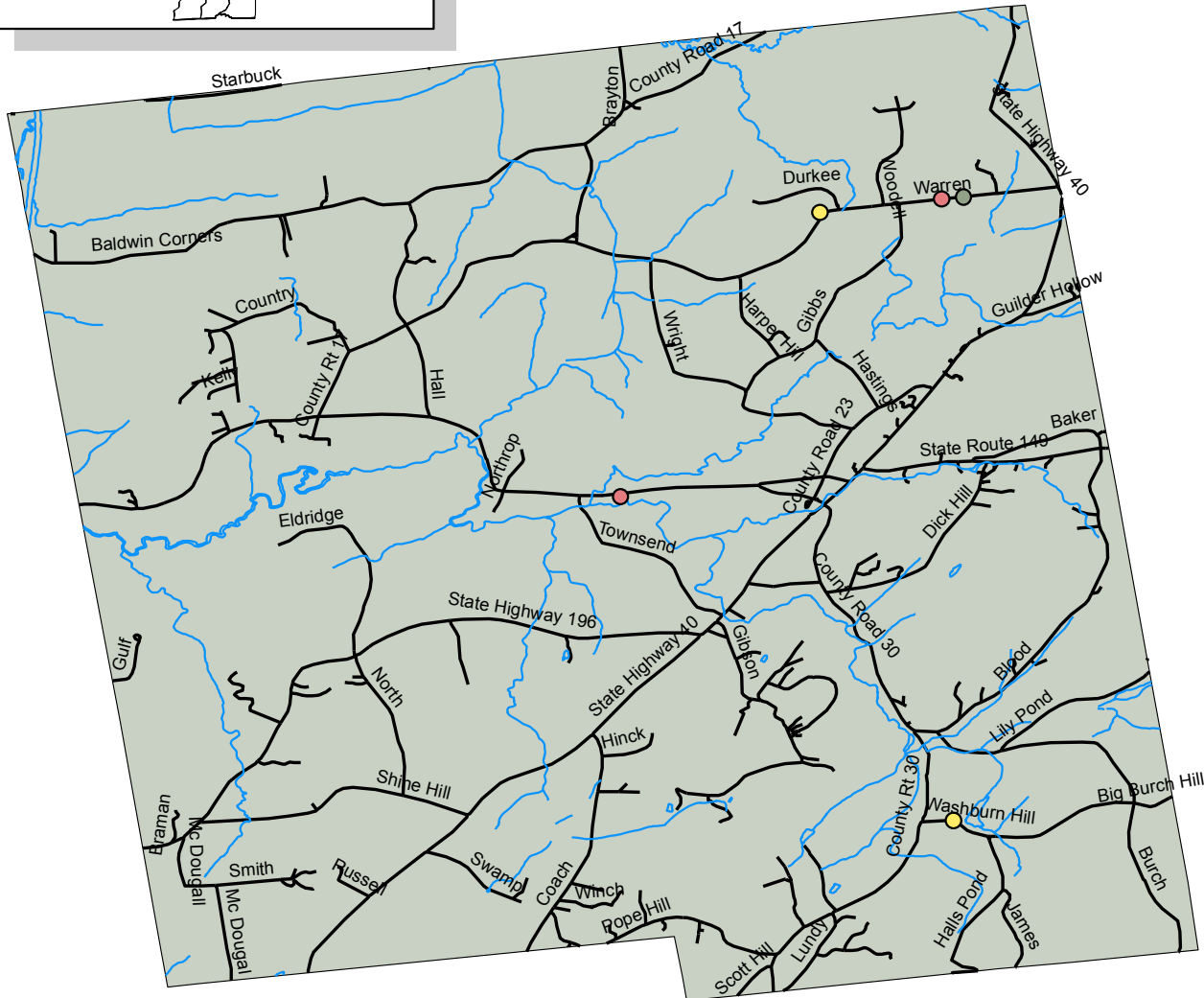
Legend

- High
- Low
- Hydrology
- Roads
- Town of Hampton



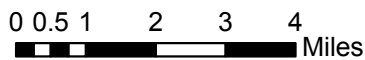


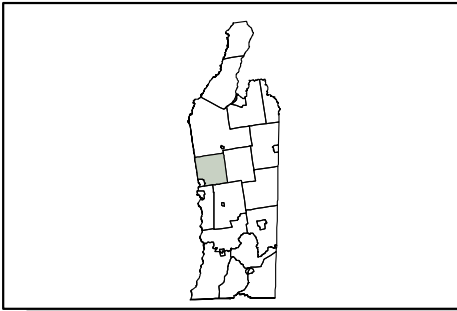
Town of Hartford ARRA Roadside Erosion Inventory Project



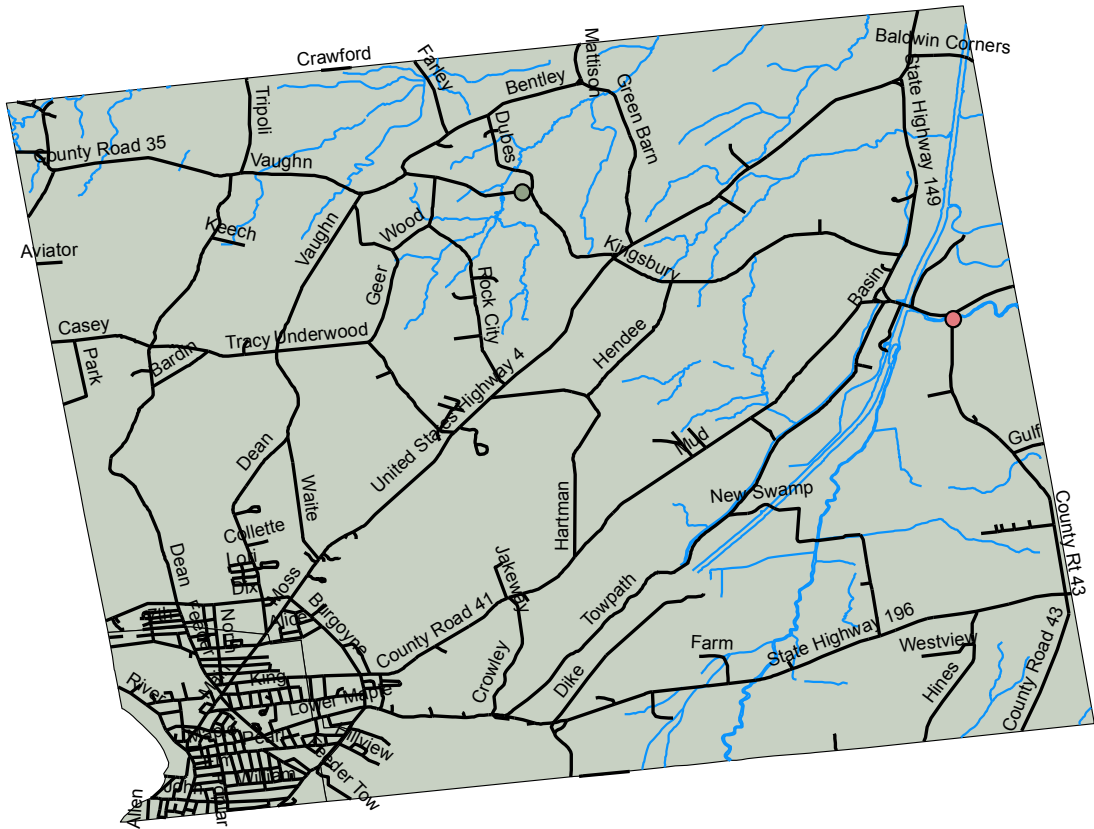
Legend

- High
- Medium
- Low
- Hydrology
- Roads
- Town of Hartford



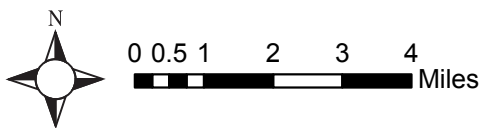


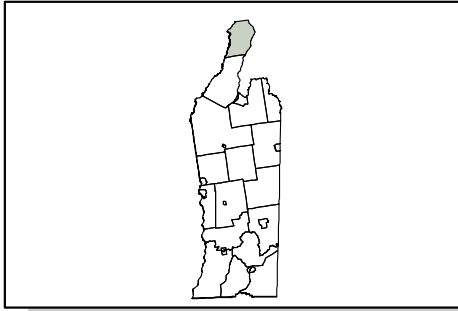
Town of Kingsbury ARRA Roadside Erosion Inventory Project



Legend

- High
- Low
- Roads
- Hydrology
- Town of Kingsbury



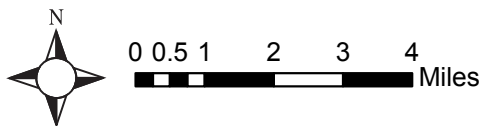


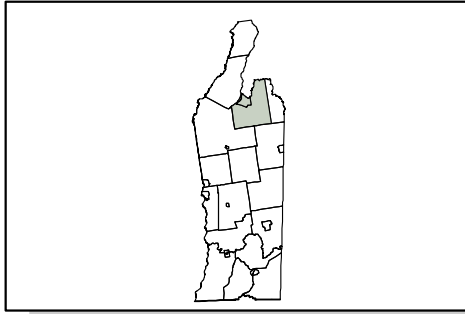
Town of Putnam ARRA Roadside Erosion Inventory Project



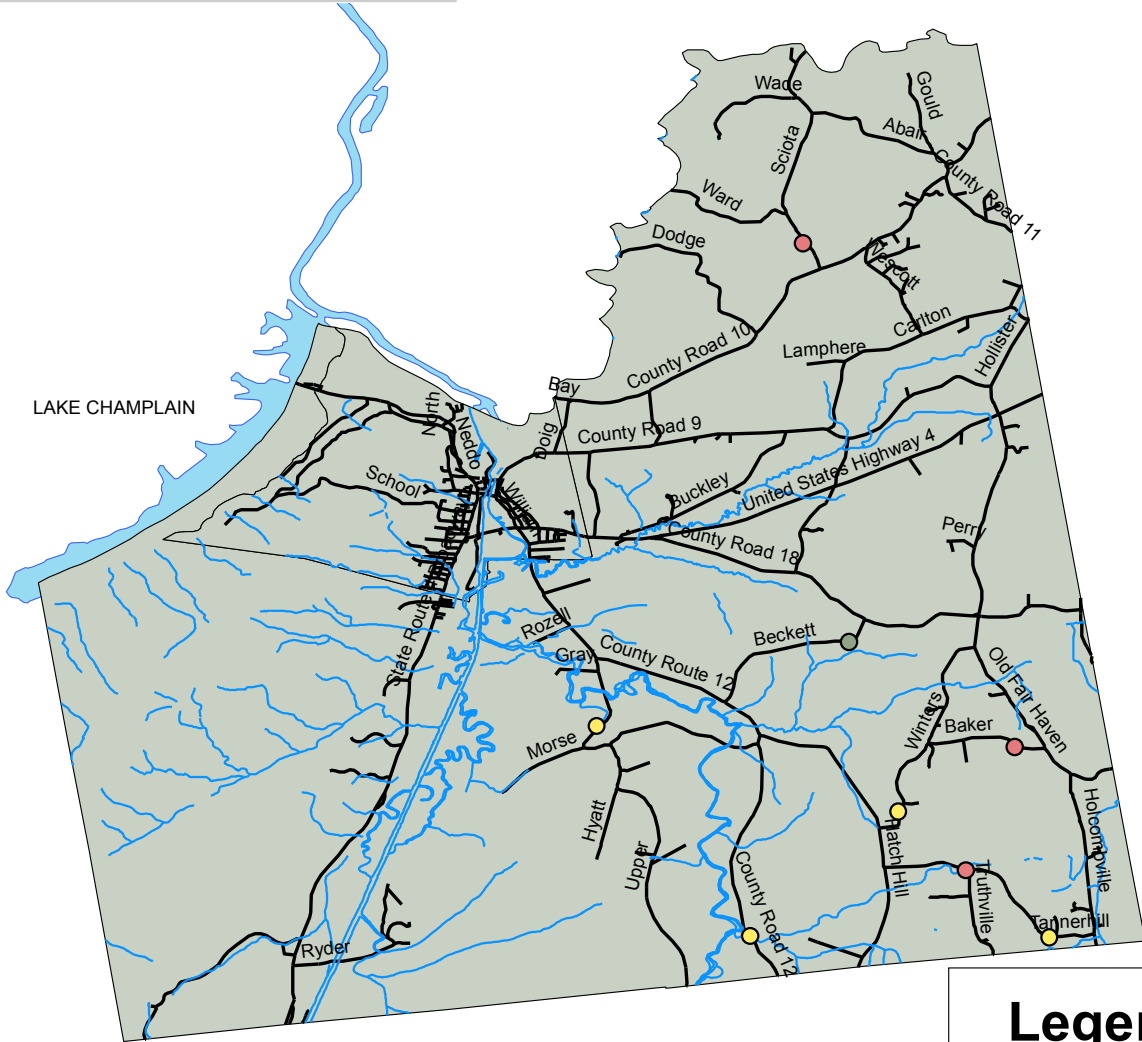
Legend

- High
- Medium
- Low
- Hydrology
- Roads
- Lake Champlain / Lake George
- Town of Putman



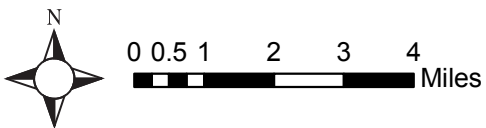


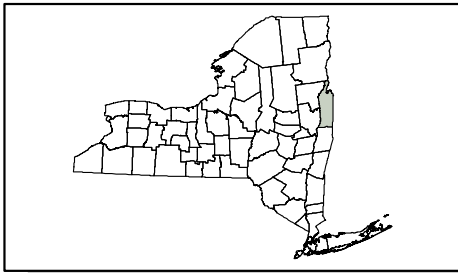
Town of Whitehall ARRA Roadside Erosion Inventory Project



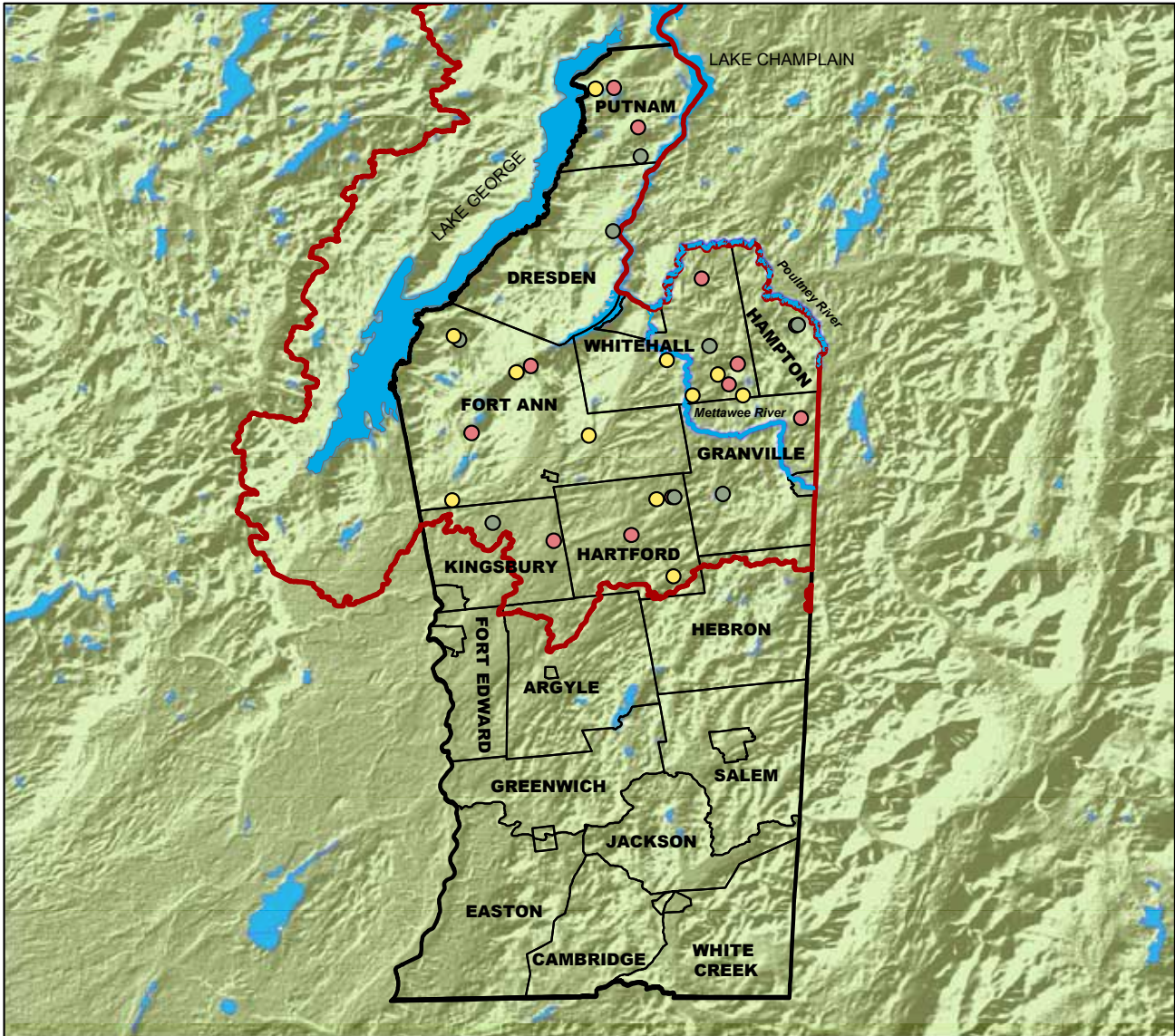
Legend

- High
- Medium
- Low
- Hydrology
- Roads
- Lake Champlain
- Town of Whitehall





American Recovery and Reinvestment Act Roadside Erosion Inventory Project Washington County, New York



Legend

| | |
|-------------------------|--------------------------|
| Washington County | Washington County |
| Washington County Towns | Lake Champlain Watershed |
| Major Rivers | Lake/Pond |

Rank

- High
- Medium
- Low

Elevation in meters

- High : 255
- Low : 0

EDUCATION

NORTH COUNTRY STORMWATER TRADESHOW AND CONFERENCE



Although a substantial amount of funding is needed for the on-the-ground remediation of the sites found within the Champlain Basin, education also plays an important part of managing all types of pollution, including roadside erosion. If local professionals and municipal and state employees are given the knowledge to prevent erosion at the onset of a project, then the time and money needed to remediate sites will decrease. This is why the Regional Planning Board, CWICNY and the County SWCD's are committed to providing education on the most modern techniques and products in the erosion and sediment control field.

TRADESHOW AGENDA

| 2009 | |
|---|---|
| Opening Remarks | Assemblywoman Teresa Sayward |
| The Continuing Struggle for Stormwater Compliance, What's Ahead for the NYS Stormwater Program and Misconceptions of Soils in Stormwater | Don Lake, PE |
| BMP Solutions for Disturbed Areas | Steve Zwilling, IFCA |
| Flood Plain Management | William Nechamen, NYS Department of Environmental Conservation |
| Site Planning for Wastewater and Stormwater Management for Residential Construction | Miriam McGiver, PE, NYS Department of State |
| Green Roof Case Study, Albany, NY | Scott Townsend, 3T Architects |
| EM River Model Demo | Staci Pomeroy, VT Agency of Natural Resources |
| 2010 | |
| Open Remarks | Bill Wellman, Champlain Chapter, Trout Unlimited |
| UNH Stormwater Overview, BMP Treatment Performance and Cold Climate Practices | Dr. Tom Ballestero, PE, University of New Hampshire Stormwater Center |
| Design Handbook Updates and Infiltration BMP Sizing and Design: Handling Climate Change Precipitation | Don Lake, PE |
| Porous Asphalt Case Study | Daniel Hershberg, PE, LS |
| 2011 | |
| Opening Remarks | Jim Tierney, NYS DEC Division of Water Assistant Commissioner |
| Green Infrastructure and Low Impact Development | John Dunkle, PE CPESC, Dunn & Sgromo Engineers |
| Detection and Elimination of Illicit Discharges to Storm Sewers | Andrew Sansone, CPSWQ, Monroe Co. Environmental Services |
| Phosphorus Treatment Advanced Mechanism and Design | Scott Perry, CPSWQ, Imbrium Systems |
| Local Stormwater Panel - Discussion of Regulatory Updates and Local Issues, Focused on the New DEC Design Manual, Chapter 5, Green Infrastructure | Carol Lamb Lafay, PE NYS Department of Environmental Conservation Suzanna Randall, Environmental Facilities Corp. Tom Baird, PE, Barton and Loguidice |

The LCLGRPB, CWICNY and the five county SWCD's included several educational components into the ARRA Program, including CWICNY's Annual North Country Stormwater Tradeshow and Conference (Stormwater Tradeshow) and several County Erosion and Sediment Control trainings.

The North Country Stormwater Tradeshow and Conference is an annual event that is held to educate local professionals, municipal employees and contractors on the most up-to-date stormwater practices and state-of-the-art stormwater technologies and services. From 2009 to 2011, over 300 participants attended the conference to hear from leaders in the stormwater management sector including; Don Lake, P.E., New York State's elite Erosion and Sediment Control specialist; Dr. Tom Ballesterio, PE, Lead Scientist at the University of New Hampshire Stormwater Center; and John Dunkle, PE, CPESC, CPSWQ of Dunn and Sgromo Engineers and SUNY ESF. Topics throughout the years included the future of the NYS Stormwater Program, flood plain management, cold climate best management practices and performance, low impact development, advanced mechanisms and designs for phosphorus treatment, green roofs and pervious asphalt.

Also included in the Stormwater Tradeshow are numerous vendors showcasing new products and services for the region. Yearly participants include Excav Services, Hydro International, EJ Prescott, Inc.,

ACF Environmental, American Excelsior Company, Imbrium Services, CT Male and Terra Hill Concrete Products. Products presented include stormwater infiltration basins, erosion control fabrics, pervious pavement, sediment and phosphorus treatment systems and an array of GPS products and software.

Further educational opportunities were afforded for local contractors by the individual county SWCDs. Several 4-Hour Erosion and Sediment Control trainings were held throughout the watershed to educate contractors as a requirement under the NYS Department of Environmental Conservation's Stormwater Permit. This permit requires that all construction site contractors and subcontractors have at least one trained individual from their company at their construction sites on a daily basis. This individual is responsible for the implementation of proper erosion control and stormwater management techniques.

For these trainings, the District staff utilize the presentation developed by the Department of Environmental Conservation that highlights the state's stormwater program and its requirements. During this presentation attendees are exposed to the permit process, the do's and don'ts of the process and various erosion, sediment and stormwater control techniques. In the past three years, over 1000 individuals have been educated on proper erosion and sediment control techniques.



Stormwater Tradeshow presenters.
Photo courtesy of CWICNY.

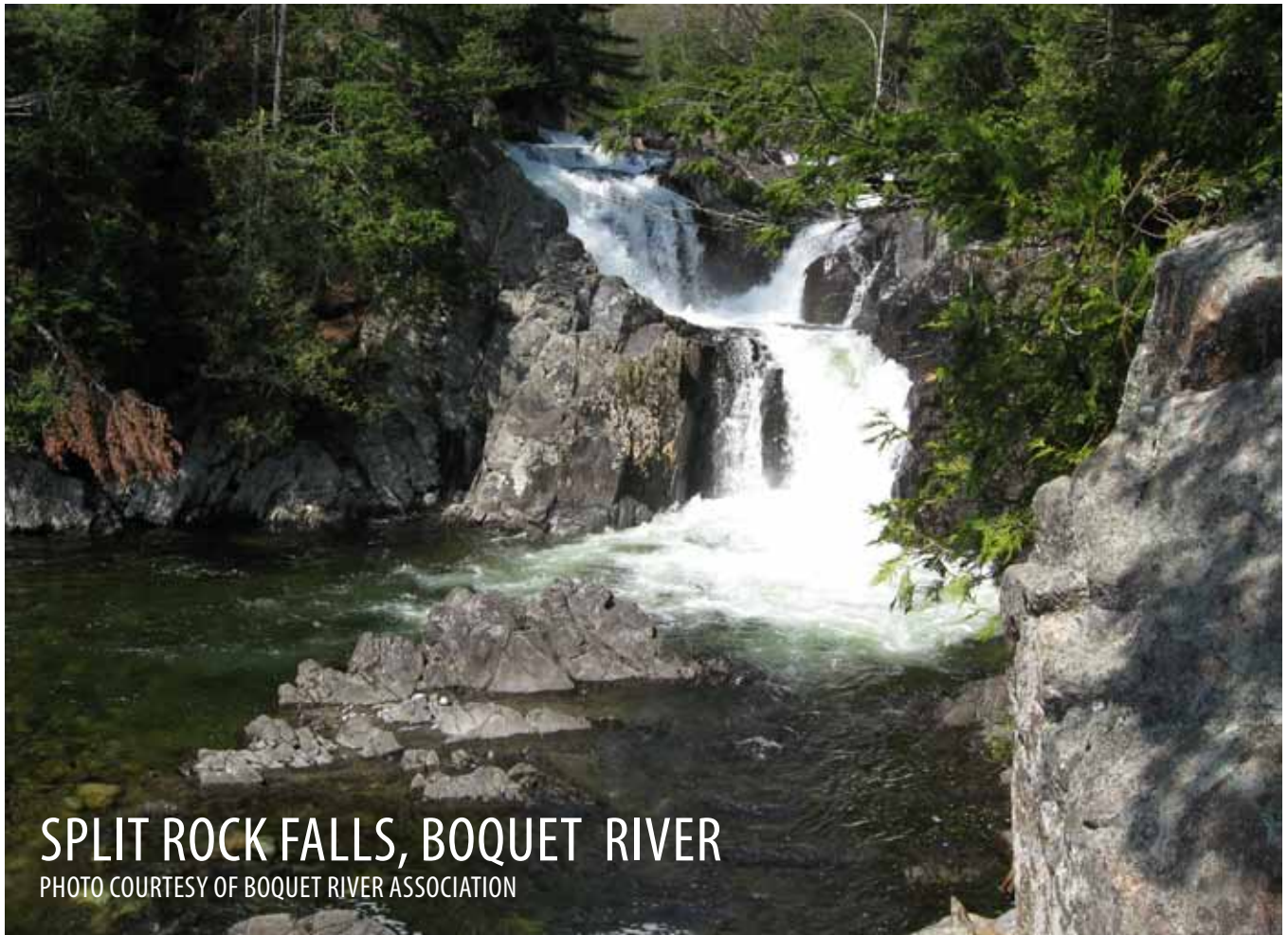
PROJECT CONCLUSION

ROADSIDE EROSION ASSESSMENT AND INVENTORY

The Adirondack Park and Lake Champlain Basin have always been revered for their beautiful, natural landscapes and sparkling waters. A staple of the region's economy is based around tourism and recreation, which is directly connected to the quality of water in the areas many lakes and rivers. This, coupled with the need to sustain clean, natural ecosystems in the watershed, is why there has been so much time, effort and money put into water quality planning in the Champlain Watershed. This report outlines the need for erosion and sedimentation control within the region, as well as provides a path for remediation and a model for erosion control planning for other areas in the

basin. This is but one small factor in the protection of water quality in the Champlain Basin, but is an important element in maintaining the vitality of the region.

Work to this magnitude can not be performed by one entity, which is why the LCLGRP has established strong connections with CWICNY and the County SWCD's, and hope this plan will foster further partnerships with state, county and local entities. Together, we can secure future funding for planning and implementation initiatives based around the importance of water quality in our region.



SPLIT ROCK FALLS, BOQUET RIVER

PHOTO COURTESY OF BOQUET RIVER ASSOCIATION

