Appendix 1-1

Map of Otsego County Parks, Forests, and Recreation Areas

Legend

Parks, Forests, and Recreation Areas

- Municipal Park
- Multiple Use Area
- Forest
- Recreational Park
- Boat Launch
- Educational
- Wildlife Management Area
- Education
- Fairgrounds
- Lakes
- Named Streams

Village Park
J.D. Carey Park
Spring Park
Oil City State Forest
Canadarago Lake Boat Marine Park
Springfield Park
Exeter State Forest
Goodyear Swamp Sanctuary
Glimmerglass State Park
Plainfield State Forest
Thayer Farm
Area #8
Basswood Pond State Forest
Roseboom State Forest
Cherry Valley State Forest
Area #6
Honey Hill State Forest
Moe Pond
Hick Memorial State Forest
Fairy Springs Park
NYS Multiple Use Area
Hartwick State Forest
Pioneer Park
Lakefront Park
Bear Swamp State Forest
Doubleday Field
Forest of the Dozen Dads Picnic Area
Five Points
Maple Valley State Forest
Texas Schoolhouse State Forest
Area #9
Davis State Park
Decatur State Forest
Area #12
Area #2
Area #13
Hooker Mtn WMA
Chapin Memorial Forest
Gilbert Lake State Park
Arnold Lake State Forest
Lutheranville State Forest
Calhoun Creek State Forest
Milford State Forest
Worcester Park
Wilbur Park
Morris Park
Area #10
Susquehanna State Forest
Hooker Mtn State Forest
Ball Field
Otsego County Fair Grounds
General Jacob Morris State Forest
Village Park
Borst Field
Wagner Farm State Forest
Crumhorn Mountain WMA
Area #7
Goodyear Lake Boat Launch
South Hill . State Forest
Area #11
Village Park
Centennial Park
Wilber Park
Copes Corner Park
Huntington Park
Bird Sanctuary
Robert V Riddell State Park
Hemstreet Park
Susquehanna River Boat Launch
Neawha Park
Oneonta Sports Park
Otego Park
Area #5
Area #14
Martinbrook Park
Village Park

PLAINFIELD
EXETER
OTSEGO
EDMESTON
BURLINGTON
HARTWICK
MIDDLEFIELD
SPRINGFIELD
CHERRY VALLEY
ROSEBOOM
DECATUR
WESTFORD
MILFORD
WORCESTER
MARYLAND
LAURENS
MORRIS
ONEONTA
BUTTERNUTS
OTEGO
UNADILLA
PITTSFIELD

Village of Cherry Valley
Village of Cooperstown
Village of Gilbertsville
Village of Otego
Village of Unadilla
City of Oneonta

OTSEGO COUNTY PARKS, FORESTS & RECREATION AREAS

OTSEGO COUNTY — NEW YORK

Prepared by:
Otsego County Planning Department
197 Main Street
Cooperstown, NY
13326

0 0.75 1.5 2.25 3
Scale in Miles

SHEET 1 OF 1

Prepared By: PAW Date: 1/21/2012
File Path\Name: p\n:\GISD\MAPS\County Maps\DSS Childrens Center\Parks Otsego County.mxd
Data Path\Name: GIS2\Mapdata\GDB\GDB_E911_V93.mdb
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p\n:\Otsego_County_GIS\Ots_streamclass_sp83.shp
p\n:\Otsego_County_GIS\Ots_forests_sp83.shp

Appendix 1-2

Town of New Lisbon Comprehensive Plan Recommendations Relating to Natural Resources and Cultural, Historic and Recreational Resources

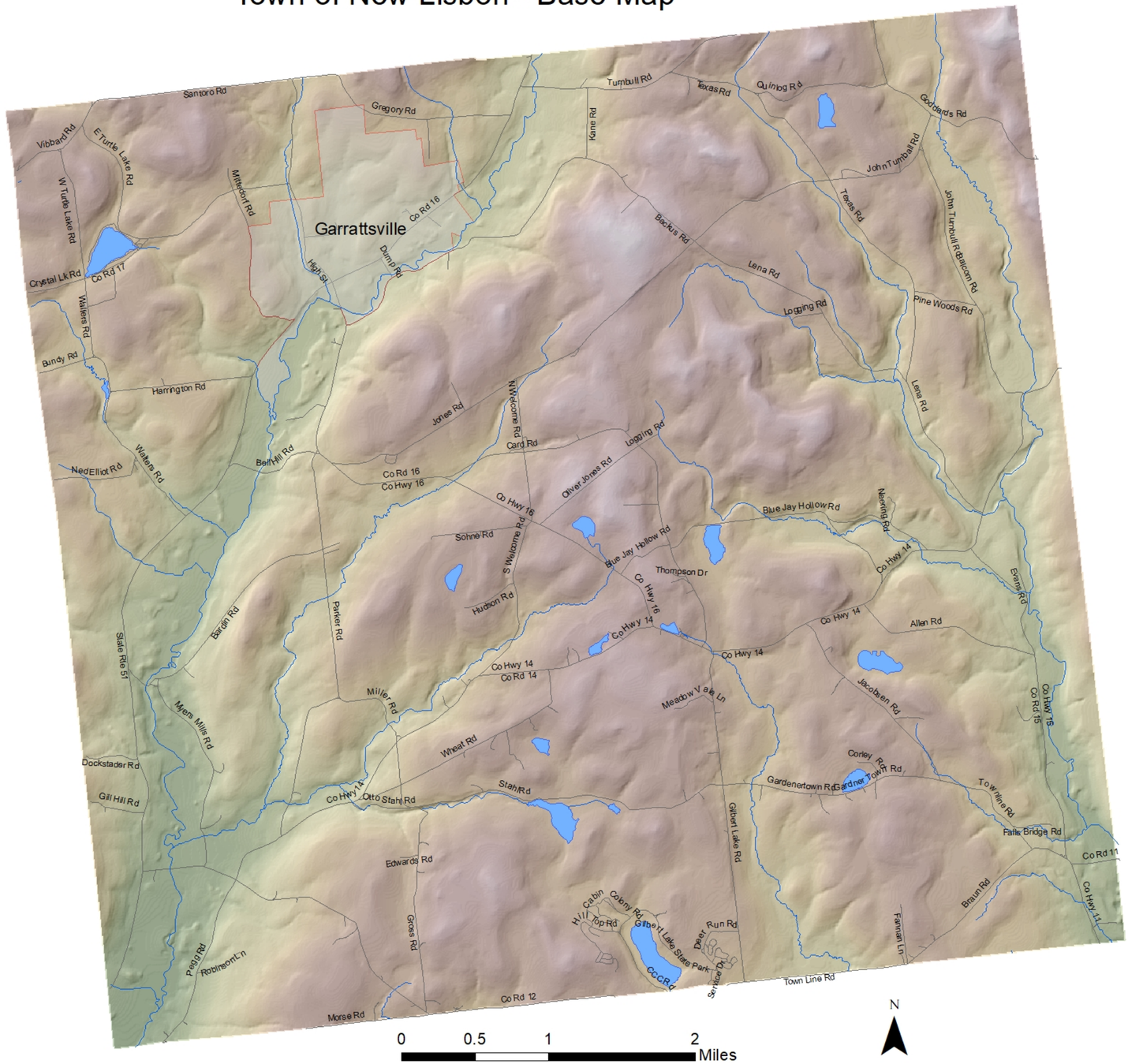
Natural Resource Protection				
1	Direct development away from areas where slopes are greater than 15% (steep slopes) [Sections 5.2 & 5.10.1]	Policy	Immediate	Planning Board Town Board
2	Limit the maximum grade of new driveways to 15% and the maximum grade of new roads to 12% [Section 5.2 & 5.10.1].	Policy	Immediate	Planning Board Town Board
3	Educate the public about the importance of maintaining wellhead protection zones around their wells. [Sections 5.3 & 5.10.2].	Policy	Immediate	Planning Board Town Board
4	Enforce NYSDEC requirements to maintain a 100-foot setback between development and adjacent wetlands for watercourses [Section 5.3.2 & 10.2].	Policy	Immediate	Planning Board Town Board
5	Limit the development of buildings within the 100-year floodplain [Section 5.3.3 & 5.10.2].	Policy	Immediate	Planning Board Town Board
6	Encourage landowners to retain and restore riparian zones along the Butternut Creek or West Branch of the Otego Creek and to participate in the CREP grant program [Section 5.3.4 & 5.10.2].	Policy	Immediate	Planning Board Town Board
7	Require SWPPP in accordance with the NYSDEC State Pollution Discharge Elimination System (SPDES) general permit for commercial developments or major subdivision applications [Section 5.3.5 & 5.10.2].	Policy	Immediate	Planning Board Town Board
8	Require developers to design a reserve field into their septic system designs [Section 5.4].	Policy	Immediate	Planning Board Town Board
9	Situate homes in the vicinity of ridgelines back from the edge of the ridge on slopes of 15% or less and encourage retention of trees [Section 5.5].	Policy	Immediate	Planning Board Town Board
10	Protect night sky and limit light pollution through the use of down-lit lighting with horizontal cut-off lens [Section 5.6].	Policy	Immediate	Planning Board Town Board
11	Support invasive plant eradication efforts and aquatic invasive species eradication efforts [Section 5.7].	Policy	Immediate	Town Board OCCA
12	Encourage landowner participation in the NYSDEC Forestry Management Program and work with State to create a program for Sugar Bush [5.8].	Program	Short-term	Town Board AAC
13	Seek EPA Targeted Watershed Grant funds to conduct stream restoration projects and to develop Unpaved Road and Road Ditch Plan [Section 5.10].	Grant Application	Short-term	Town Board County Planning
Immediate = 1 Year	**Short-Term = 1-2 Years**	**Long-Term = 2-5 years**		

Cultural, Historic & Recreational Resources				
29	Use the Archeological Sensitivity Map as a guide in determining when an archeological survey should be required [Section 7.1].	Policy	Immediate	Planning Board
30	Support efforts by local landowners to preserve their historic buildings and the preservation of historic resources [Section 7.3].	Policy	Immediate	Town Board Town Historian
31	Support efforts to list eligible properties on the State and National Register of Historic Places [7.3].	Policy	Immediate	Town Board Town Historian
32	Support efforts by local landowners to preserve historic schoolhouses, barns and historic cemeteries by providing letters of support for grant applications to the State Office of PRHP [Section 7.3.1, 3.2, 3.3].	Policy	Immediate	Town Board Town Historian
33	Support efforts by property owners to participate in the Conservation Tax Credit (CTC) Program [Section 7.4].	Policy	Immediate	Town Board
34	Ensure that *payment-in-lieu of parkland fees* are collected to offset expenditures associated with new development [Section 11.2].	Policy	Immediate	Planning Board Town Board
35	Coordinate with the New York State DEC to seek their assistance in developing more trails for public use within the Texas Schoolhouse State Forest and Gilbert Lake State Park [Section 7.2].	Intermunicipal Coordination	Short-term	Town Board NYSDEC OCCA
36	Designate seasonal roads for cross-country ski trails during winter months and plow off-street parking areas [Section 7.2].	Policy	Short-term	Town Board Highway Department
37	Create a Town of New Lisbon Recognition of Historic Resources Program [Section 7.4].	Program	Long-term	Town Board Town Historian

Appendix 2-1

Base Map

Town of New Lisbon - Base Map



- Streams
- Village of Garrattsville
- Roads
- Lakes

Elevation

Feet above sea level

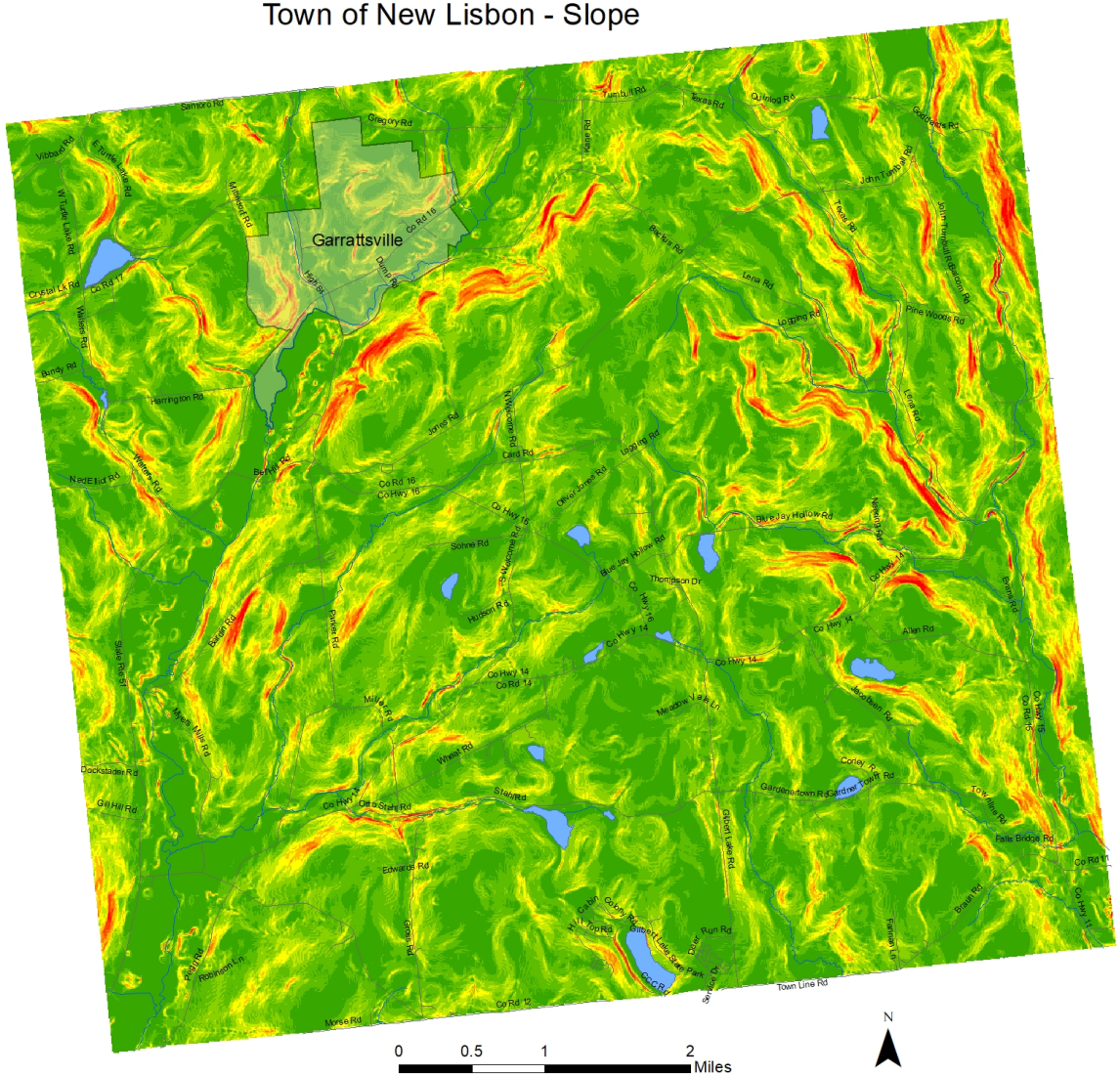
- High : 583
- Low : 347

Created by Trevor Fuller (09-27-21)
Data Sources:
NYS GIS Clearinghouse
USGS
NYS DEC
Projection:
NAD_1983_UTM_Zone_18N
Transverse_Mercator

Appendix 2-2

Slopes Map

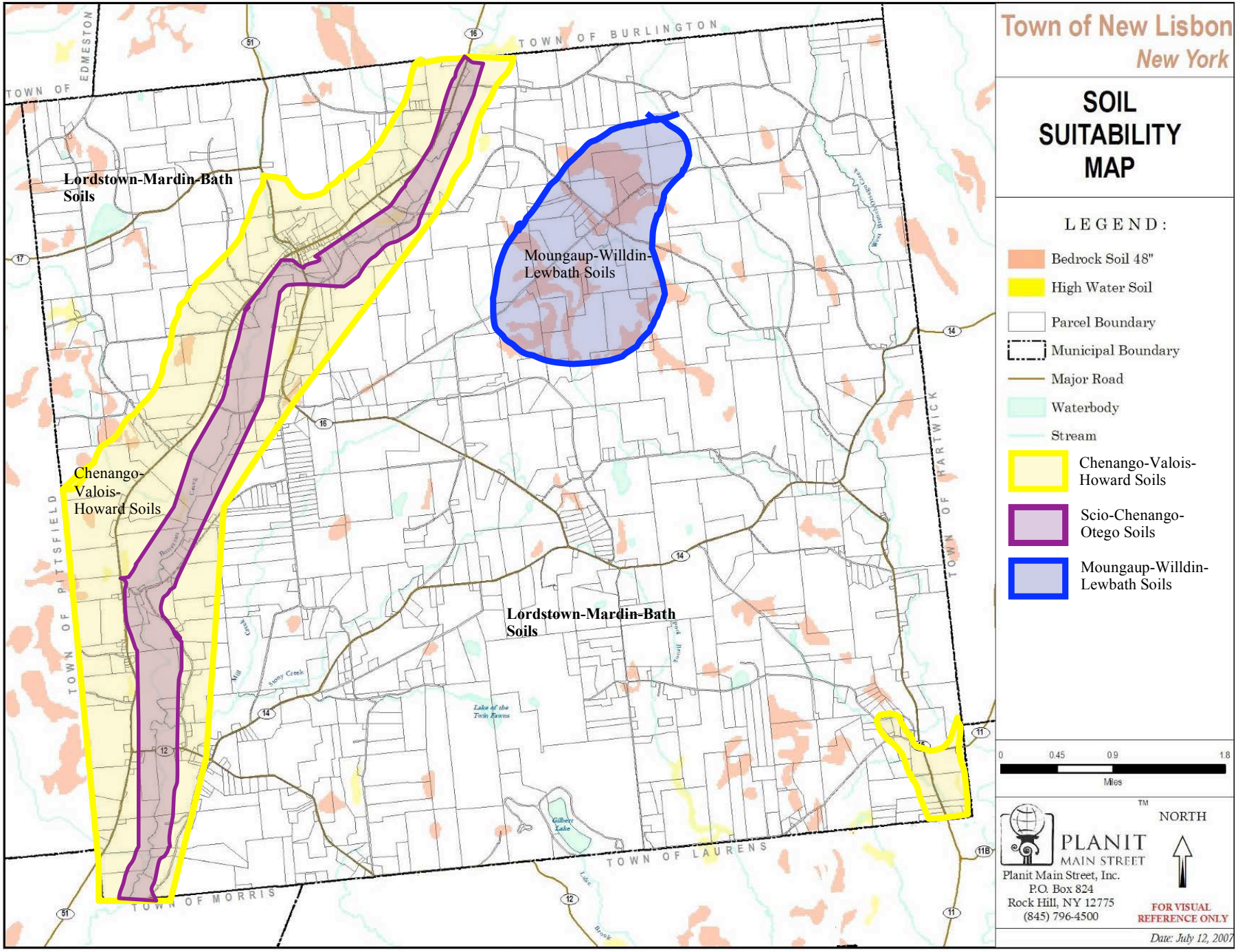
Town of New Lisbon - Slope



Data Sources:
NYS GIS Clearinghouse
USGS
NYS DEC
Projection:
NAD_1983_UTM_Zone_18N
Transverse_Mercator

Appendix 2-3

Soils Map

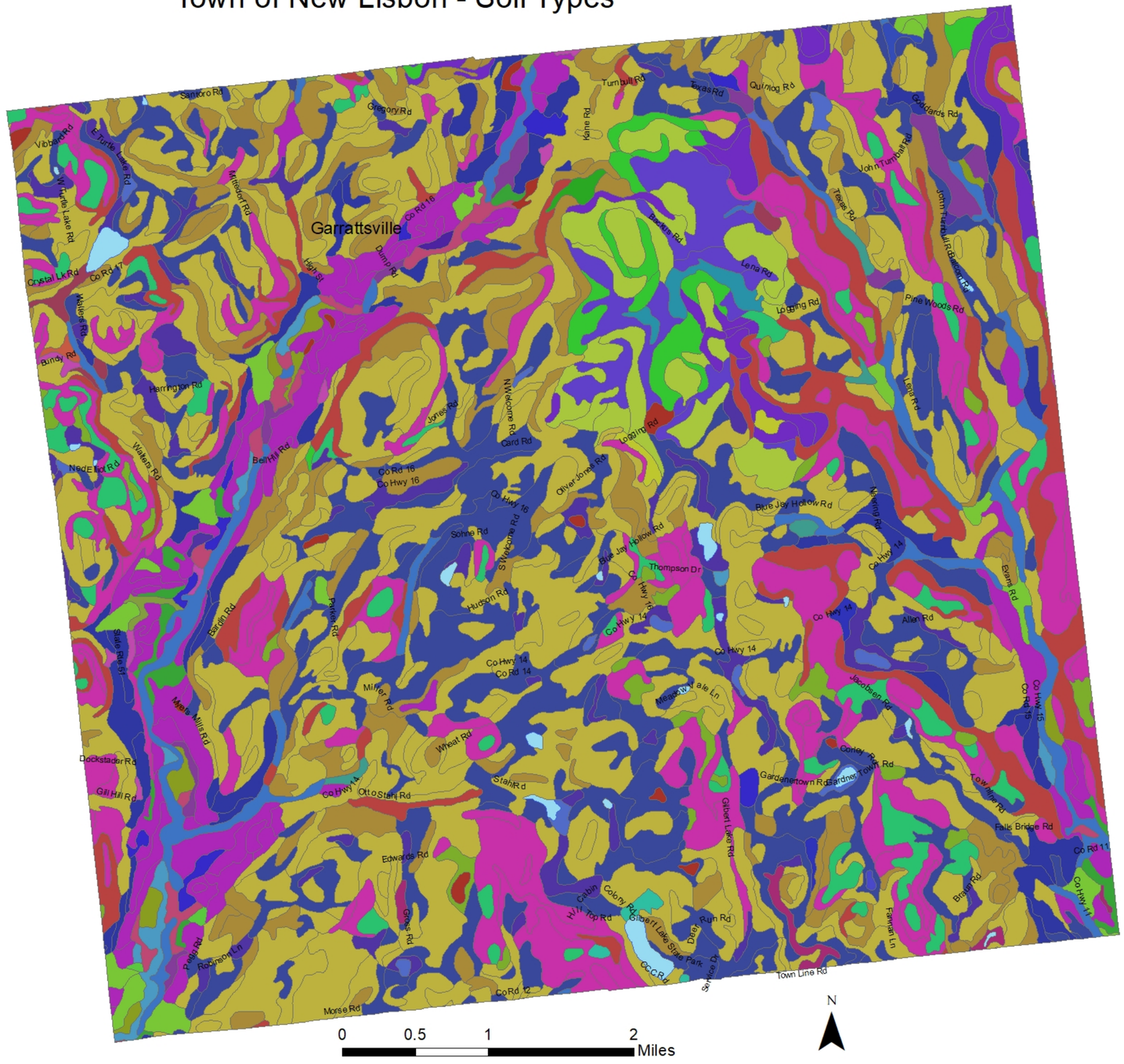

Town of New Lisbon
New York
SOIL SUITABILITY MAP
LEGEND:
Bedrock Soil 48"
High Water Soil
Parcel Boundary
Municipal Boundary
Major Road
Waterbody
Stream
Chenango-Valois-Howard Soils
Scio-Chenango-Otego Soils
Moungaup-Willdin-Lewbath Soils
Lordstown-Mardin-Bath Soils
Moungaup-Willdin-Lewbath Soils
Chenango-Valois-Howard Soils
Lordstown-Mardin-Bath Soils
TOWN OF EDMESTON
TOWN OF BURLINGTON
TOWN OF PITTSFIELD
TOWN OF HARTWICK
TOWN OF LAURENS
TOWN OF MORRIS
0 0.45 0.9 1.8
Miles
NORTH
PLANIT MAIN STREET
Planit Main Street, Inc.
P.O. Box 824
Rock Hill, NY 12775
(845) 796-4500
FOR VISUAL REFERENCE ONLY
Date: July 12, 2007

Soil Association	Slope Range	Drainage Class	Typical Location in Town	Limitations to Agriculture
LORDSTOWN-MARDIN-BATH:				
Dominantly nearly level to very steep, moderately deep and very deep, well-drained and moderately well-drained; in glaciated uplands which are often bedrock controlled.	>15%	Well-Drained and Moderately Well-Drained	Upland hillsides, hilltops, valley sides	Depth to bedrock, or fragipan, slopes greater than 15%, wetness, slow permeability and low ph.
MOUNGAUP-WILLDIN-LEWBATH				
Dominantly nearly level to very steep, moderately deep to very deep, medium textured soils; in glaciated uplands which are often bedrock controlled in elevations over 1,750 feet.	>15%	Well-Drained and Moderately Well-Drained	Upland hillsides, hilltops, valley sides at elevations > 1,750 feet (e.g. Texas Schoolhouse State Forest & vicinity)	Depth to bedrock, slopes greater than 15%, wetness, slow permeability, cooler soil temperatures, low ph.
CHENANGO-VALOIS-HOWARD				
Dominantly nearly level to very steep, very deep, well-drained, moderately coarse textured and medium textured soils that formed in glacial outwash, inwash deposits, alluvial fans, and ablation till; in outwash plains and along valley walls.	0-15%	Well-Drained to Somewhat Excessively Drained	Found within Butternut Valley beyond the floodplain.	Well-suited to agriculture, but droughtiness, slopes and very rapid permeability may pose some limitations.
SCIO-CHENANGO-OTEGO				
Dominantly nearly level and gently sloping, very deep, moderately coarse textured and medium textured soils that formed in alluvium, glacial outwash and water-deposited silts.	0-15%	Somewhat Excessively Drained	Lands abutting Butternut Creek and lying within the floodplain.	Well-suited to agriculture. Wetness and droughtiness and very rapid permeability are limitations.

Appendix 2-4

Detailed Soils Map

Town of New Lisbon - Soil Types



Soil Type

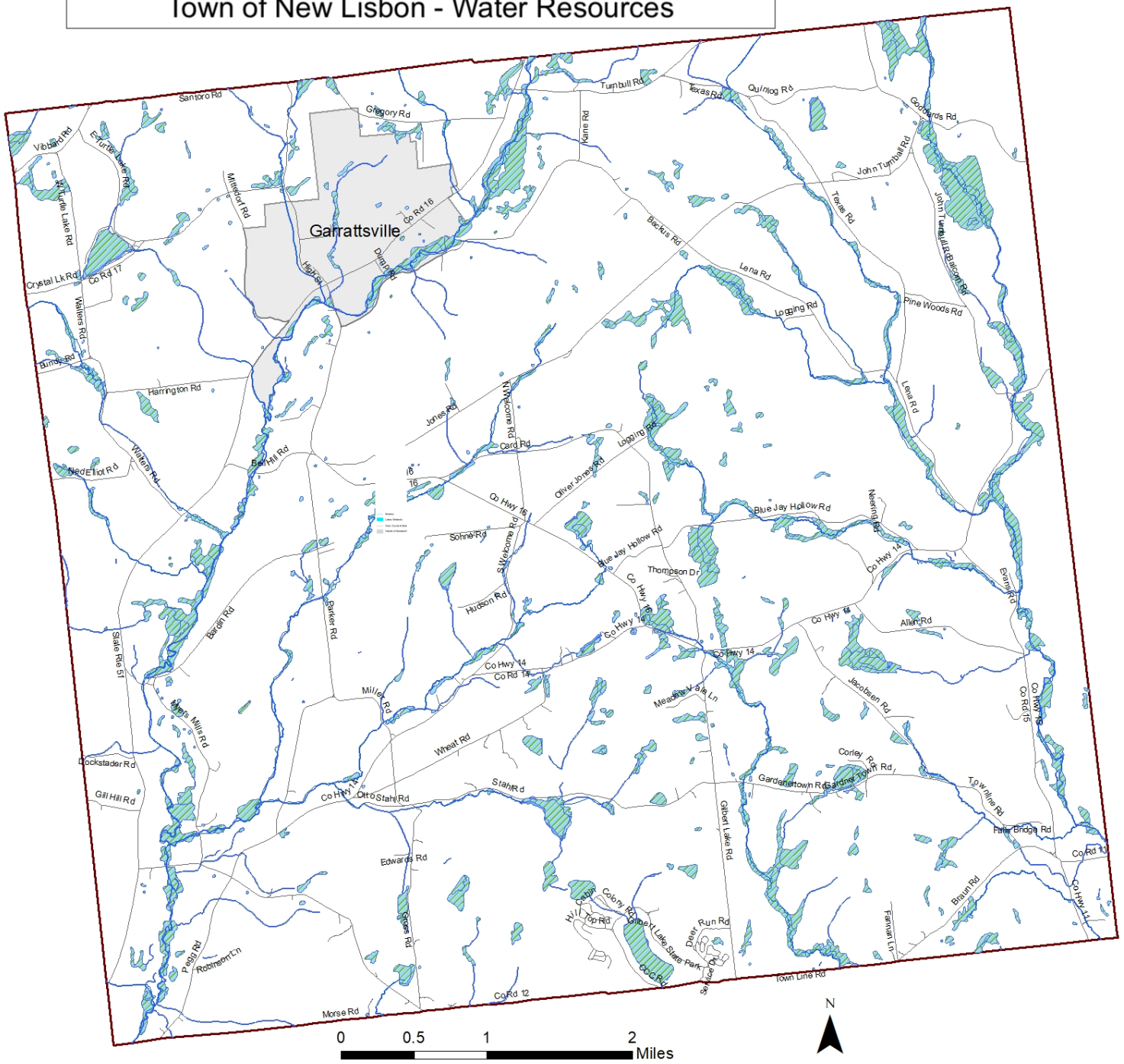
- Alden mucky silt loam
- Atherton silt loam
- Bath and Lackawanna soils, 8 to 15 percent slopes, extremely stony
- Bath channery silt loam
- Canandaigua mucky silt loam
- Canandaigua silt loam
- Carlisle muck
- Castile channery silt loam
- Chenango channery loam
- Chenango gravelly silt loam
- Chenango, Howard, and Tunkhannock soils, 25 to 50 percent slopes
- Chippewa and Norwich soils
- Fluvaquents-Udifluvents complex, frequently flooded
- Greene-Tuller complex, 1 to 8 percent slopes
- Hamplain silt loam
- Lewbath channery silt loam
- Lordstown, Chadakoin, and Manlius soils, 25 to 50 percent slopes, very rocky
- Lordstown-Arnot complex, 1 to 8 percent slopes, rocky
- Lordstown-Chadakoin complex
- Mardin channery silt loam
- Mongaup-Franklinville complex
- Morris and Volusia soils, 3 to 15 percent slopes, extremely stony
- Norchip channery silt loam, 0 to 3 percent slopes
- Ontusia channery silt loam
- Oquaga-Arnot complex, 8 to 15 percent slopes, rocky
- Otego silt loam
- Palms muck
- Pits, Gravel, and Sand
- Raynham silt loam
- Red Hook silt loam
- Saprists and Aquents, inundated
- Scio silt loam, 2 to 6 percent slopes
- Torull-Gretor complex, 1 to 6 percent slopes
- Trestle-Deposit complex, 1 to 4 percent slopes
- Udorthents, smoothed
- Valois gravelly loam
- Volusia silt loam
- Wakeville silt loam
- Water
- Wayland soils complex, 0 to 3 percent slopes, frequently flooded
- Willdin channery silt loam
- Lakes

Created by Trevor Fuller (09-27-21)
Data Sources:
NYS GIS Clearinghouse
USGS
NYS DEC
Projection:
NAD_1983_UTM_Zone_18N
Transverse_Mercator

Appendix 3-1

Water Resources Map

Town of New Lisbon - Water Resources



Streams

Lakes, Wetlands

Town, County & State Highways

Hamlet of Garrattsville

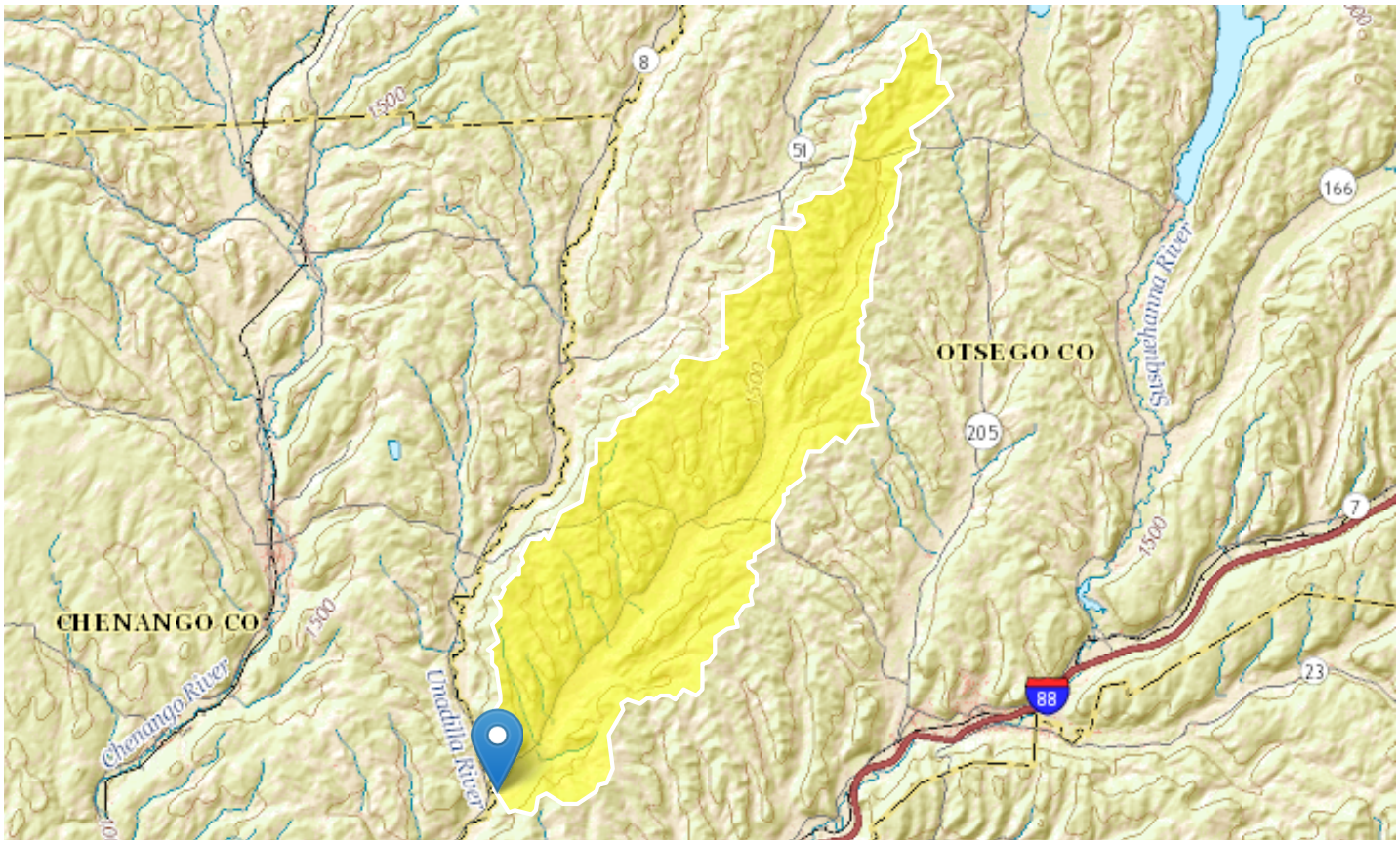
Data Sources:
NYS GIS Clearinghouse
USGS
NYS DEC
Projection:
NAD_1983_UTM_Zone_18N
Transverse_Mercator

Appendix 3-2

Butternut Creek - Map and Basin Characteristics Report

Butternut Creek at Unadilla River StreamStats Report

Region ID:	NY
Workspace ID:	NY20161029121256146000
Clicked Point (Latit...	42.41547,-75.37394
Time:	2016-10-29 14:16:42 -0400



Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	130	square miles

Bankfull Statistics Parameters [100.00 Percent Bankfull Region 5 SIR2009 5144]

Parameter	Value	Min Limit	Max Limit
Drainage Area	130	0.7	332

Bankfull Statistics Flow Report [100.00 Percent Bankfull Region 5 SIR2009 5144]

Statistic	Value	Unit	Prediction Error
Bankfull Area	593	ft^2	24
Bankfull Depth	5.039	ft	20
Bankfull Streamflow	2920	ft^3/s	36
Bankfull Width	120	ft	27

Bankfull Statistics Citations

Mulvihill, C.I., Baldigo, B.P., Miller, S.J. and DeKoskie Douglas,, 2009, Bankfull Discharge and Channel Characteristics of Streams in New York State: U.S. Geological Survey Scientific Investigations Report 2009-5144, 51 p. (http://pubs.usgs.gov/sir/2009/5144/)

Appendix 3-3

Butternut Valley Alliance Library Catalog

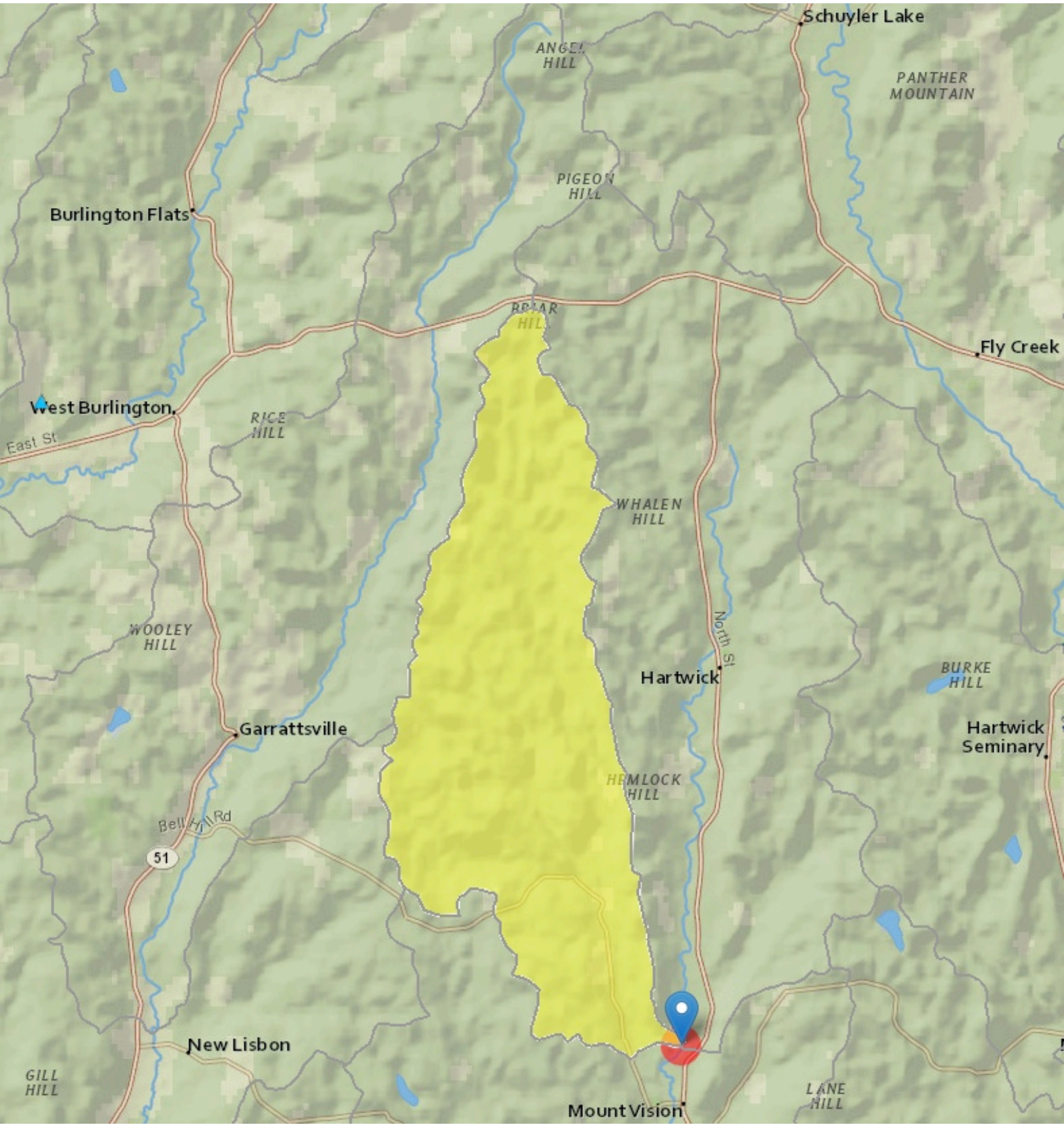
BVA Butternut Creek Watershed Library of Environmental Reports and Publications

Title	Authors	Date	Description
Citizen Science Water Quality Monitoring Data	Hasbargen, L. and Lentz, E.	2022	Raw data from the ongoing WQM of the Butternut Creek at County Highway 12.
Butternut Creek Assessment	Capuana, E., Otsego County SWCD	2021	The purpose of this report is to summarize the Watershed Assessment of Butternut Creek as part of a project developed by the Upper Susquehanna Coalition (USC) and funded by the National Fish and Wildlife Foundation referred to as the I-4 project. The project was facilitated by the Otsego County Soil and Water Conservation District in collaboration with Otsego County Conservation Association (OCCA), Butternut Valley Alliance, SUNY Oneonta, USC, and numerous volunteers. The I-4 project represents an approach to watershed conservation and management that builds on four principal components: Information, Investigation, Implementation, and Integration. The Watershed Assessment combined with the *Butternut Creek Watershed Background Report* provide a valuable tool to evaluate and prioritize future restoration in the watershed and will supply essential information to support the Implementation and Integration components of the I-4 project.
Butternut Creek Watershed Background Report	Capuana, E., Otsego County SWCD	2021	The purpose of this report is to compile all relevant background information about the Butternut Creek Watershed as part of a project developed by the Upper Susquehanna Coalition (USC) and funded by the National Fish and Wildlife Foundation (NFWF) referred to as the I-4 project. The project was facilitated by the Otsego County Soil and Water Conservation District in collaboration with Otsego County Conservation Association, Butternut Valley Alliance, SUNY Oneonta, USC, and numerous volunteers. The I-4 project represents an approach to watershed conservation and management that builds on four principal components: Information, Investigation, Implementation, and Integration. This background summary combined with the Butternut Creek Assessment provide a valuable tool to evaluate and prioritize future restoration in the watershed and will supply essential information to support the Implementation and Integration components of the I-4 project.
Public Fishing Rights Map - Butternut Creek	NYSDEC	2021	These generalized location maps are intended to aid anglers in finding PFR segments.
Region 4 Fisheries notes	Pokorny, T.	2021	Notes re: aquatic resources, fisheries management and public fishing/boating access in DEC Region 4.
Re-introduction of the American Eel to the NY Portion of the Susquehanna River Activities and Results	Coney, S. and Lord, P.	2020	This report describes surveys that were performed in the year of the first authorized reintroduction of the American eel (*Anguilla rostrata*) to the NY portion of the Upper Susquehanna Watershed.
Butternut Creek Fish Survey Data	Stitch, D., Coney, S. and Albright, M.	2020	Fish species counts from a survey near Bailey Road.
Water Quality Monitoring Data Analysis & Interpretation (Butternut Creek Packet)	Alliance for Aquatic Resource Monitoring	2020	Report on citizen science water quality monitoring in Otsego County between October 2017 and January 2020, as part of Alliance for Aquatic Resource Monitoring's Water Quality Monitoring Program. Butternut Creek monitoring was carried out by Dr. Les Hasbargen and Ed Lentz.
Macroinvertebrate Monitoring Field Data Sheet	Hasbargen, L., Lentz, E.T., and Lentz, V.	2019	Report on citizen science macroinvertebrate survey in the Butternut Creek on July 27, 2019.
Habitat Enhancement and Population Augmentation at a Historic Eastern Hellbender (Cryptobranchus alleganiensis alleganiensis) Site	Herman, M.	2018	This internship report describes a pilot project spearheaded by James Curatolo and The Wetland Trust (TWT) that would first enhance habitat at the last known hellbender site in the Upper Susquehanna River watershed and then release and monitor head-started juveniles at this location to augment the declining adult population.
Basswood Pond Salmonid Netting Survey	Pokorny, T.	2018	Report of Survey #417041 to assess the status of the cold water fishery and warm water fishery.
Re-introduction of the American Eel to the NY Portion of the Susquehanna River Activities and Results	Coney, S. and Lord P.	2018	This report details baseline surveys that have been carried out prior to the reintroduction of the American eel to the NY portion of the Upper Susquehanna Watershed.
The Reintroduction of the American Eel to the Upper Susquehanna Watershed	Coney, S.	2018	This slide presentation was presented at BVA program. In addition to the eel reintroduction project, the presentation covered eel parasites, invasive crayfish, Eastern Hellbenders, mussels and fish species diversity.
Baseline fish survey of Butternut Creek. SUNY Oneonta Biological Field Station, Cooperstown	Angell, N.	2017	This paper focuses on the fish species living in the Butternut Creek and the creation of a fish population survey.
Butternut Creek Biomonitoring	Peterson, J.	2017	Benthic macroinvertebrates are studied to assess water quality over time. A comparison was made to a survey conducted 15 years prior in order to assess temporal trends in water quality.
Water quality assessment of Butternut Creek	Sleeper, S.,	2017	The purpose of this study was to monitor the Upper Susquehanna watershed and its main tributaries with a specific focus on sediment movement in Butternut Creek. pH, electrical conductivity, and turbidity were also measured.
Historic Survey Data 1935-2004	NYSDEC, Region 4 Stamford, Bureau of Fisheries	2016	Species counts in surveys conducted from 1935 to 2004.
Butternut Creek Stocking Data 1925-2011	NYSDEC, Region 4 Stamford, Bureau of Fisheries	2016	Stocking data from 1925 to 2011.
Butternut Creek Biological Survey	Pokorny, T.	2016	Report of survey of Butternut Creek to monitor the Brook Trout population.

Title	Authors	Date	Description
Butternut Creek, Burlington to Morris (CROTS Survey)	Wells, S.	2016	The purpose of this survey was to assess the trout fishery in the Butternut Creek.
Report on Migration of Butternut Creek in Wheeler's field	Hasbargen, L., Booth, P., and Busby, D.	2015	This report summarizes the activity of a meander loop of Butternut Creek. The report gathers information about channel location over time using aerial imagery and elevation data sets from government agencies, and provides a new highly detailed image and elevation survey.
Aquatic invasive species present in Otsego County, NY water bodies	Yoo, A., Herzog, K., and Waterfield, H.	2013	13 Sites in the Butternut were surveyed for aquatic invasive species.
2011 Pearly Mussel Surveys of Portions of the Catatonk Creek, Butternut Creek and Unadilla River	Lord, P.H., and Pokornoy, T.N.	2012	Report of surveys conducted for pearly mussels species of greatest conservation need in Catalonk Creek, Butternut creek, and Unadilla River.
Butternut Creek Biological Assessment (2004):	Bode, R.W., Novak, N.A., Abele, L.E., Heitzman, D.L., and Smith, A.J.	2004	Report of biological sampling by NYSDEC Stream Biomonitoring Unit in July 2003 to assess general water quality and to determine spatial or chronological water quality trends. The survey employed eight stations from Garrattsville to Mt. Upton and was conducted in part to help understand the apparent decline in the hellbender population in Mt. Upton.
Benthic Macroinvertebrate Survey of Butternut Creek	Stensland, M.	2002	Master's thesis describing a benthic macroinvertebrate survey of the Butternut Creek.
Last updated: March 24, 2022			

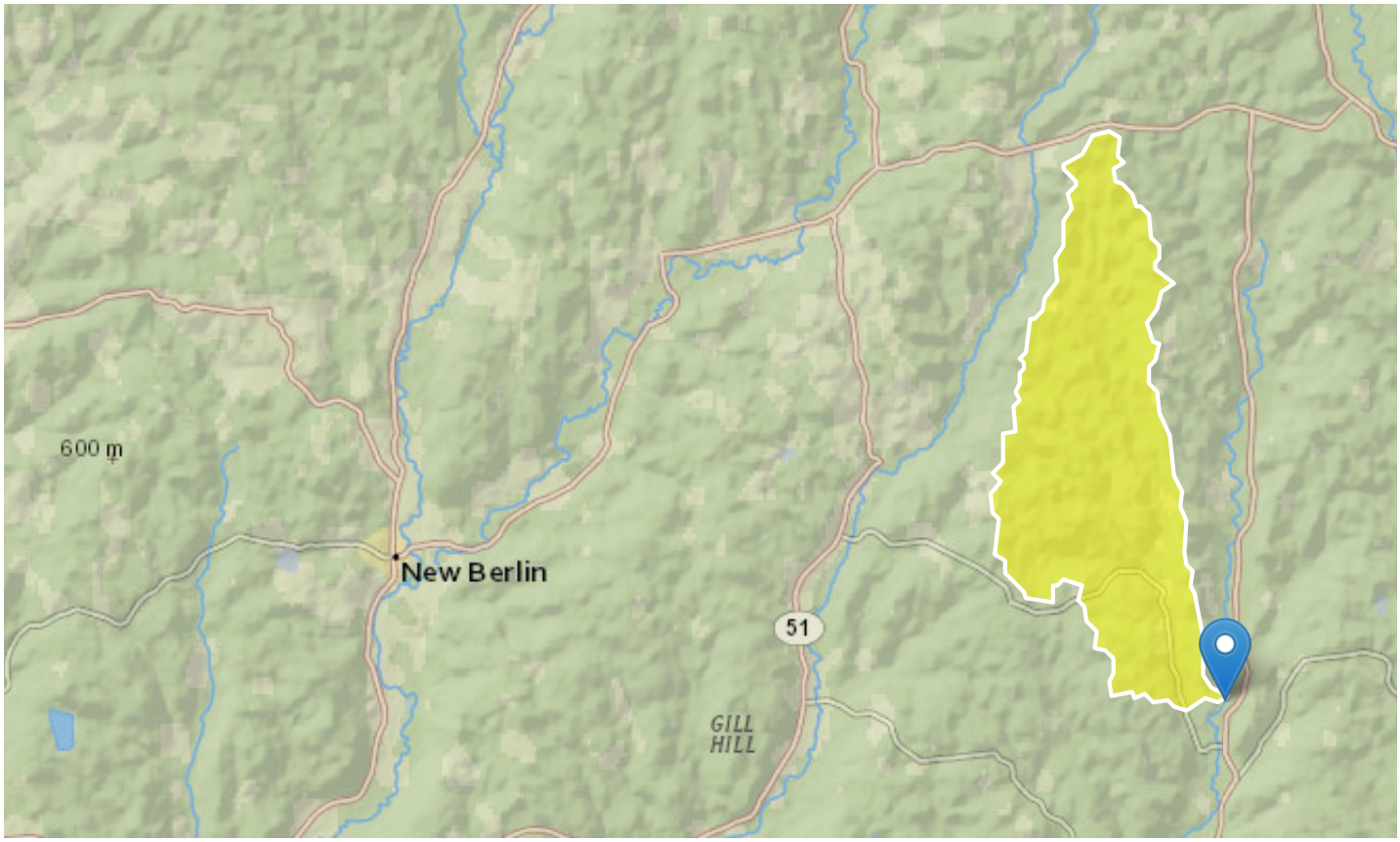
Appendix 3-4

West Branch Otsego Creek - Map and Basin Characteristics Report


Schuyler Lake
ANGEL HILL
PANTHER MOUNTAIN
PIGEON HILL
Burlington Flats
BRIAR HILL
Fly Creek
West Burlington
RICE HILL
East St
WHALEN HILL
North St
WOOLEY HILL
Hartwick
BURKE HILL
Garrattsville
Hartwick Seminary
HEMLOCK HILL
Bell Hill Rd
51
New Lisbon
GILL HILL
Mount Vision
LANE HILL

StreamStats Report

Region ID:	NY
Workspace ID:	NY20211107135647416000
Clicked Point (Latitude, Longitude):	42.58919, -75.05844
Time:	2021-11-07 08:57:07 -0500



Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	19.7	square miles

Bankfull Statistics Parameters [Bankfull Region 5 SIR2009 5144]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	19.7	square miles	0.7	332

Bankfull Statistics Parameters [Appalachian Highlands D Bieger 2015]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	19.7	square miles	0.07722	940.1535

Bankfull Statistics Parameters [Appalacian Plateaus P Bieger 2015]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	19.7	square miles	0.081081	536.995602

Bankfull Statistics Parameters [USA Bieger 2015]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	19.7	square miles	0.07722	59927.7393

Bankfull Statistics Flow Report [Bankfull Region 5 SIR2009 5144]

PIl: Prediction Interval-Lower, PIu: Prediction Interval-Upper, ASEp: Average Standard Error of Prediction, SE: Standard Error (other -- see report)

Statistic	Value	Unit	PIl	PIu
Bankfull Area	126	ft^2	68.5	232
Bankfull Depth	2.49	ft	1.4	4.42
Bankfull Streamflow	581	ft^3/s	178	1900
Bankfull Width	51.5	ft	27.1	97.8

Bankfull Statistics Flow Report [Appalachian Highlands D Bieger 2015]

Statistic	Value	Unit
Bieger_D_channel_width	52.3	ft
Bieger_D_channel_depth	2.64	ft
Bieger_D_channel_cross_sectional_area	141	ft^2

Bankfull Statistics Flow Report [Appalacian Plateaus P Bieger 2015]

Statistic	Value	Unit
Bieger_P_channel_width	56.6	ft
Bieger_P_channel_depth	2.67	ft

Bieger_P_channel_depth	2.67	ft
Bieger_P_channel_cross_sectional_area	150	ft^2

Bankfull Statistics Flow Report [USA Bieger 2015]

Statistic	Value	Unit
Bieger_USA_channel_width	35.4	ft
Bieger_USA_channel_depth	2.27	ft
Bieger_USA_channel_cross_sectional_area	85.5	ft^2

Bankfull Statistics Flow Report [Area-Averaged]

PIl: Prediction Interval-Lower, PIu: Prediction Interval-Upper, ASEp: Average Standard Error of Prediction, SE: Standard Error (other -- see report)

Statistic	Value	Unit	PIl	PIu
Bankfull Area	126	ft^2	68.5	232
Bankfull Depth	2.49	ft	1.4	4.42
Bankfull Streamflow	581	ft^3/s	178	1900
Bankfull Width	51.5	ft	27.1	97.8
Bieger_D_channel_width	52.3	ft		
Bieger_D_channel_depth	2.64	ft		
Bieger_D_channel_cross_sectional_area	141	ft^2		
Bieger_P_channel_width	56.6	ft		
Bieger_P_channel_depth	2.67	ft		
Bieger_P_channel_cross_sectional_area	150	ft^2		
Bieger_USA_channel_width	35.4	ft		
Bieger_USA_channel_depth	2.27	ft		
Bieger_USA_channel_cross_sectional_area	85.5	ft^2		

Bankfull Statistics Citations

Mulvihill, C.I., Baldigo, B.P., Miller, S.J. , and DeKoskie, Douglas,2009, Bankfull Discharge and Channel Characteristics of Streams in New York State: U.S. Geological Survey Scientific Investigations Report 2009-5144, 51 p. (http://pubs.usgs.gov/sir/2009/5144/)

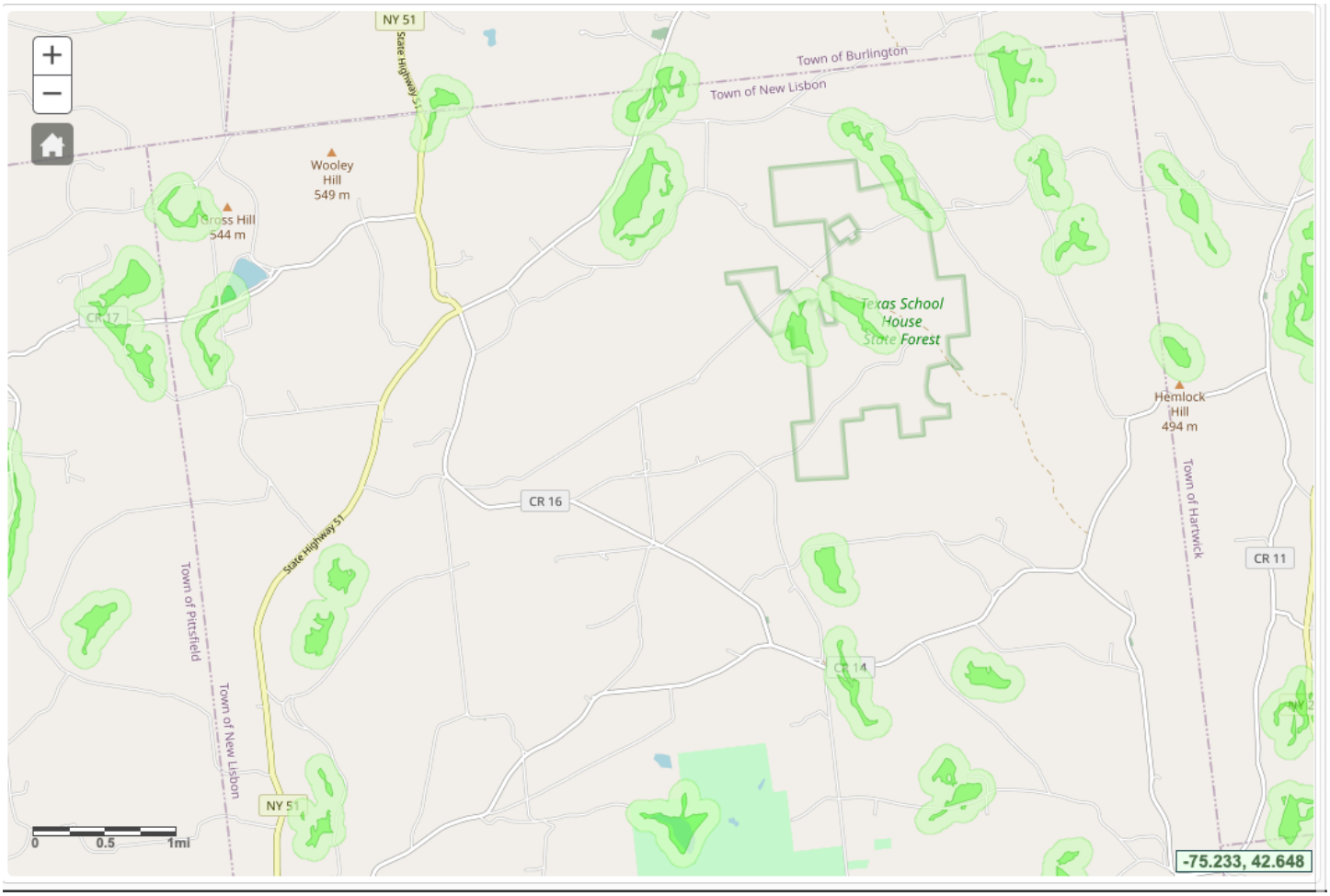
Bieger, Katrin; Rathjens, Hendrik; Allen, Peter M.; and Arnold, Jeffrey G.,2015,

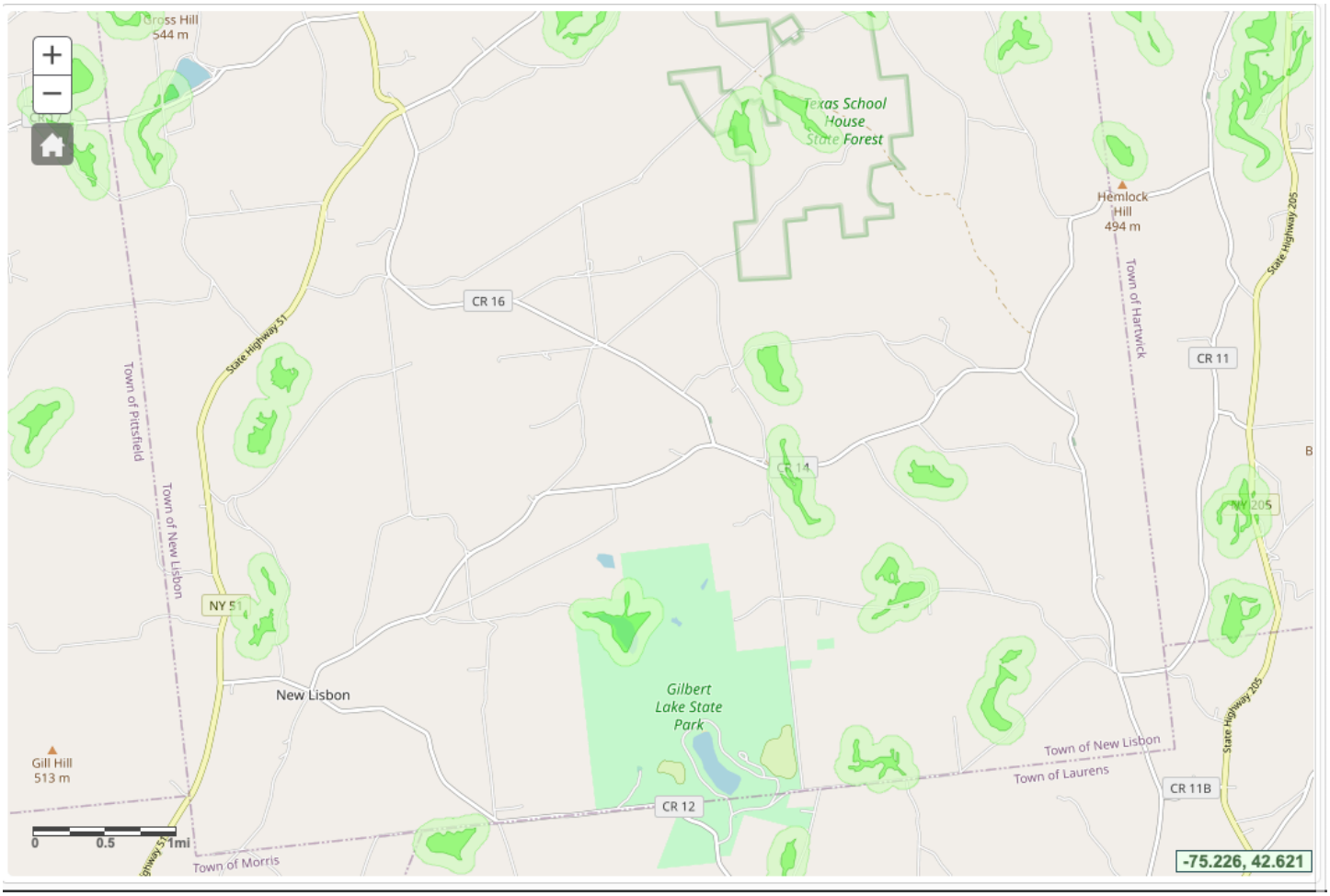
Development and Evaluation of Bankfull Hydraulic Geometry Relationships for the Physiographic Regions of the United States, Publications from USDA-ARS / UNL Faculty, 17p. (https://digitalcommons.unl.edu/usdaarsfacpub/1515?utm_source=digitalcommons.unl.edu%2Fusdaarsfacpub%2F1515&utm_medium=PDF&utm_c

Application Version: 4.6.2
StreamStats Services Version: 1.2.22
NSS Services Version: 2.1.2

Appendix 3-5 (N,S)

State-protected Wetlands Maps

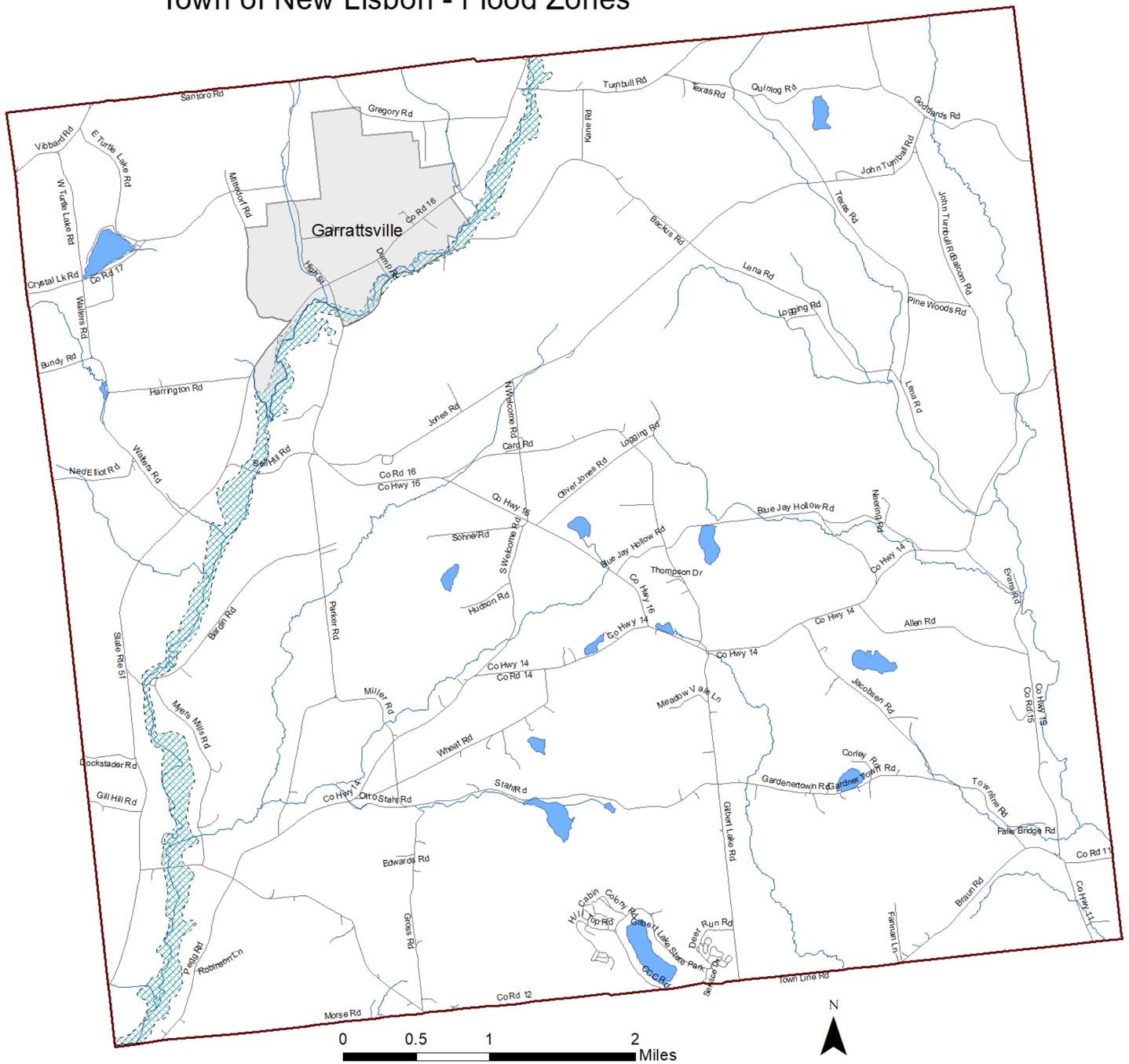

NY 51
State Highway 51
Town of Burlington
Town of New Lisbon
Wooley Hill
549 m
Gross Hill
544 m
CR 17
Texas School House State Forest
Hemlock Hill
494 m
Town of Hartwick
CR 11
CR 16
State Highway 51
Town of Pittsfield
Town of New Lisbon
CR 14
NY 51
0
0.5
1mi
-75.233, 42.648


Gross Hill
544 m
Texas School House State Forest
Hemlock Hill
494 m
State Highway 205
Town of Hartwick
CR 16
State Highway 51
Town of Pittsfield
Town of New Lisbon
CR 11
CR 14
NY 205
NY 51
New Lisbon
Gilbert Lake State Park
Gill Hill
513 m
Town of New Lisbon
Town of Laurens
CR 11B
CR 12
0
0.5
1mi
Town of Morris
-75.226, 42.621

Appendix 3-6

NRI Flood Zones Map

Town of New Lisbon - Flood Zones



Streams
Roads
Village of Garrattsville
100-year flood zone
Lakes

Data Sources:
NYS GIS Clearinghouse
USGS
NYS DEC
Projection:
NAD_1983_UTM_Zone_18N
Transverse_Mercator

Appendix 3-7

Erosion Sites Data

Appendix 3-7

GIS ID	DECFIN	Watershed	NHDRC	Other ID	Date	LAT	LONG	*Deposition*	*Deposition Featur*	*Debris*	*Dep_BankSide*	*Land Us*	*Erosion*
207	SR-146-9	Middle Butternut	2050101000412	Butternut Creek	5/26/17	42.5841700	-75.1922200	Yes	Gravel bar/LWD	Yes	Right		Yes
204	SR-146-9	Middle Butternut	2050101000412	Butternut Creek	5/26/17	42.5883300	-75.1930600	Yes	Gravel bar	No	Left		Yes
201	SR-146-9	Middle Butternut	2050101000412	Butternut Creek	5/26/17	42.5885000	-75.1932500	Yes	Gravel bar	No	N/A		Yes
1350	SR-146-9-29	Middle Butternut	2050101000658	Stony Creek - MB_001	9/27/17	42.5913900	-75.1911100	No	No	No	N/A		Yes
1351	SR-146-9-29	Middle Butternut	2050101000658	Stony Creek - MB_001	9/27/17	42.5919400	-75.1905600	Yes	Gravel bar	No	Mid-channel		Yes
1353	SR-146-9-29	Middle Butternut	2050101000658	Stony Creek - MB_001	9/27/17	42.5922200	-75.1877800	Yes	Gravel bar	No	Right		Yes
1362	SR-146-9-29	Middle Butternut	2050101000658	Stony Creek - MB_001	9/27/17	42.5936100	-75.1822200	Yes	Gravel bar	No	Right		Yes
71	SR-146-9	Upper Butternut	2050101000413	Butternut Creek	11/4/16	42.5947200	-75.1931200						Yes
1364	SR-146-9-29	Middle Butternut	2050101000658	Stony Creek - MB_001	9/27/17	42.5947600	-75.1809100	Yes	Gravel bar	No	Right		Yes
1366	SR-146-9-29	Middle Butternut	2050101000658	Stony Creek - MB_001	9/27/17	42.5958900	-75.1783000	Yes	Gravel bar/LWD	Yes	Left		Yes
1683	SR-146-9-29	Middle Butternut	2050101000659	Stony Creek - MB_001	10/19/17	42.5973700	-75.1710500	Yes	Gravel bar	No	Right		Yes
97	SR-146-9	Upper Butternut	2050101000413	Butternut Creek	11/4/16	42.6141400	-75.1890700						Yes
90	SR-146-9	Upper Butternut	2050101000414	Butternut Creek	11/4/16	42.6216400	-75.1859700						Yes
56	SR-146-9	Upper Butternut	2050101000415	Butternut Creek	10/30/16	42.6293800	-75.1801200						Yes
55	SR-146-9	Upper Butternut	2050101000415	Butternut Creek	10/30/16	42.6308700	-75.1803000						Yes
54	SR-146-9	Upper Butternut	2050101000415	Butternut Creek	10/30/16	42.6320500	-75.1795800						Yes
1617	SR-146-9-36	Upper Butternut	2050101000951	Unnamed tributary - UB_024	10/13/17	42.6396000	-75.1832000	Yes	Gravel bar/LWD	Yes	N/A		Yes
47	SR-146-9	Upper Butternut	2050101000416	Butternut Creek	10/30/16	42.6455700	-75.1739600	Yes	LWD	Yes	Left		Yes
46	SR-146-9	Upper Butternut	2050101000416	Butternut Creek	10/30/16	42.6459300	-75.1734700						Yes
22	SR-146-9-37	Upper Butternut	2050101000950	Unnamed tributary - UB_022	10/23/16	42.6475000	-75.1727778						Yes
16	SR-146-9	Upper Butternut	2050101000417	Butternut Creek	10/21/16	42.6480560	-75.1650000						Yes
146	SR-146-9	Upper Butternut	2050101000417	Butternut Creek	11/18/16	42.6522667	-75.1539833						Yes
1383	SR-146-9-37	Upper Butternut	2050101000950	Unnamed tributary - UB_022	9/29/17	42.6583333	-75.1775000	Yes	Gravel bar	No	Right		Yes
1382	SR-146-9-37	Upper Butternut	2050101000950	Unnamed tributary - UB_022	9/29/17	42.6588889	-75.1777778	N/A	No	No	N/A		Yes
1379	SR-146-9-37	Upper Butternut	2050101000950	Unnamed tributary - UB_022	9/29/17	42.6594444	-75.1777778	N/A	No	No	N/A		Yes
1377	SR-146-9-37	Upper Butternut	2050101000950	Unnamed tributary - UB_022	9/29/17	42.6605556	-75.1772222	N/A	No	No	N/A		Yes
119	SR-146-9	Upper Butternut	2050101000418	Butternut Creek	11/11/16	42.6609600	-75.1474700						Yes
66	SR-146-9	Upper Butternut	2050101000413	Butternut Creek	11/4/16	42.5995200	-75.1911200						Yes
3068	SR-146-9-29-1	Middle Butternut	2050101000942	Mill Creek/Stony Creek - MB_001B	9/12/18	42.6046000	-75.1783900	No	No	No	N/A		Yes
1870	SR-146-9-29	Middle Butternut	2050101000660	Stony Creek - MB_001	11/9/17	42.6079900	-75.1562000	Yes	Gravel bar/LWD	No	Left		Yes
678	SR-146-9	Upper Butternut	2050101000413	Butternut Creek	8/2/17	42.6099200	-75.1931800	Yes	Gravel bar/Beaver	Yes	Channel spanning		Yes
3096	SR-146-9-29-1	Middle Butternut	2050101000942	Mill Creek/Stony Creek - MB_001B	9/14/18	42.6180300	-75.1705300	No	No	No	N/A		Yes
3094	SR-146-9-29-1	Middle Butternut	2050101000942	Mill Creek/Stony Creek - MB_001B	9/14/18	42.6204000	-75.1688300	Yes	LWD	Yes	Channel spanning		Yes
1582	SR-146-9-34	Upper Butternut	2050101000953	Unnamed tributary - UB_025	10/12/17	42.6316700	-75.1980000	Yes	LWD	Yes	N/A		Yes
27	SR-146-9-37	Upper Butternut	2050101000950	Unnamed tributary - UB_022	10/23/16	42.6483333	-75.1744450						Yes
111	SR-146-9	Upper Butternut	2050101000418	Butternut Creek	11/11/16	42.6654000	-75.1450100						Yes

75	SR-146-9	Upper Butternut	2050101000413	Butternut Creek	11/4/16	42.5916600	-75.1939200						Yes
3065	SR-146-9-29-1	Middle Butternut	2050101000942	Mill Creek/Stony Creek - MB_001B	9/12/18	42.6070700	-75.1780200	Yes	Gravel bar/LWD	No	Both		Yes
137	SR-146-9	Upper Butternut	2050101000418	Butternut Creek	11/18/16	42.6560400	-75.1497800						Yes
52	SR-146-9	Upper Butternut	2050101000415	Butternut Creek	10/30/16	42.6332200	-75.1798200	Yes	Beaver Dam	Yes	Channel spanning		Yes
51	SR-146-9	Upper Butternut	2050101000416	Butternut Creek	10/30/16	42.6361700	-75.1788800	Yes	Beaver Dam	Yes	Channel spanning		Yes
49	SR-146-9	Upper Butternut	2050101000416	Butternut Creek	10/30/16	42.6387800	-75.1776400	Yes	Beaver Dam	Yes	Channel spanning		Yes
77	SR-146-9	Upper Butternut	2050101000412	Butternut Creek	11/4/16	42.5906700	-75.1934000						Yes
1361	SR-146-9-29	Middle Butternut	2050101000658	Stony Creek - MB_001	9/27/17	42.5936100	-75.1836100	Yes	Gravel bar	No	Left		Yes
1365	SR-146-9-29	Middle Butternut	2050101000658	Stony Creek - MB_001	9/27/17	42.5957790	-75.1795530	Yes	Gravel bar/LWD	Yes	Left		Yes
1668	SR-146-9-29	Middle Butternut	2050101000660	Stony Creek - MB_001	10/19/17	42.5978000	-75.1688000	Yes	Gravel bar	No	Right		Yes
671	SR-146-9	Upper Butternut	2050101000413	Butternut Creek	8/2/17	42.6105500	-75.1930600	Yes	Gravel bar/LWD	No	Left		Yes
1834	SR-146-9-29	Middle Butternut	2050101000660	Stony Creek - MB_001	11/9/17	42.6119100	-75.1480800	Yes	Gravel bar	Yes	Mid-channel		Yes
1704	SR-146-9-32	Upper Butternut	2050101004097	Unnamed tributary - UB_027	11/1/17	42.6130000	-75.2012700	Yes	Gravel bar	No	N/A		Yes
98	SR-146-9	Upper Butternut	2050101000413	Butternut Creek	11/4/16	42.6132300	-75.1896400						Yes
1636	SR-146-9-32	Upper Butternut	2050101004097	Unnamed tributary - UB_027	10/17/17	42.6147500	-75.1917000	Yes	Gravel bar	No	Left		Yes
95	SR-146-9	Upper Butternut	2050101000413	Butternut Creek	11/4/16	42.6168100	-75.1886400						Yes
1604	SR-146-9-34	Upper Butternut	2050101000953	Unnamed tributary - UB_025	10/12/17	42.6222220	-75.1858330	Yes	Gravel bar	No	Left		Yes
1593	SR-146-9-34	Upper Butternut	2050101000953	Unnamed tributary - UB_025	10/12/17	42.6257000	-75.1924400	No	No	No	N/A		Yes
1592	SR-146-9-34	Upper Butternut	2050101000953	Unnamed tributary - UB_025	10/12/17	42.6258700	-75.1930700	Yes	LWD	Yes	N/A		Yes
82	SR-146-9	Upper Butternut	2050101000415	Butternut Creek	11/4/16	42.6267900	-75.1819600						Yes
81	SR-146-9	Upper Butternut	2050101000415	Butternut Creek	11/4/16	42.6275800	-75.1821000						Yes
1538	SR-146-9-34	Upper Butternut	2050101000953	Unnamed tributary - UB_025	10/5/17	42.6316500	-75.1977100	Yes	LWD	Yes	Left		Yes
1536	SR-146-9-34	Upper Butternut	2050101000953	Unnamed tributary - UB_025	10/5/17	42.6319444	-75.1988889	Yes	LWD	Yes	Mid-channel		Yes
1616	SR-146-9-36	Upper Butternut	2050101000951	Unnamed tributary - UB_024	10/13/17	42.6392000	-75.1820000	N/A	N/A	N/A	N/A		Yes
48	SR-146-9	Upper Butternut	2050101000416	Butternut Creek	10/30/16	42.6418900	-75.1763300						Yes
21	SR-146-9-37	Upper Butternut	2050101000950	Unnamed tributary - UB_022	10/23/16	42.6472069	-75.1725778						Yes
11	SR-146-9	Upper Butternut	2050101000417	Butternut Creek	10/21/16	42.6502780	-75.1594440						Yes
7	SR-146-9	Upper Butternut	2050101000417	Butternut Creek	10/21/16	42.6505560	-75.1577780						Yes
148	SR-146-9	Upper Butternut	2050101000417	Butternut Creek	11/18/16	42.6522100	-75.1543300						Yes
130	SR-146-9	Upper Butternut	2050101000418	Butternut Creek	11/11/16	42.6573100	-75.1500000						Yes
115	SR-146-9	Upper Butternut	2050101000418	Butternut Creek	11/11/16	42.6633400	-75.1461200						Yes
1372	SR-146-9-37	Upper Butternut	2050101000950	Unnamed tributary - UB_022	9/29/17	42.6644444	-75.1769444	Yes	LWD	Yes	Mid-channel		Yes
1370	SR-146-9-37	Upper Butternut	2050101000950	Unnamed tributary - UB_022	9/29/17	42.6658333	-75.1755556	N/A	N/A	N/A	N/A		Yes

Appendix 3-7

Bank_Erosion_Pote	*Bank Side*	*Bedrock*	*Flood Plain Acce*	*Buffer Po*	*Invasi*	*BEHI ID*	*BEHI*	*Estimated_Tons_Lost_year*	*Comment*	PhotoID
Extreme	Left			Yes		MS_13.1.3	56.33878192000	312.00000000000	Site 3	307-313
Extreme	Right			Yes		MS_13.1.2	46.05878192000	46.22222222000	Site 2. , some existing buffer could use enhancement.	288-296
Extreme	Right			Recent Planting		MS_13.1.1	51.29473684000	27.90666667000	Site 1, Trees recently planted in riparian area	273-276
Extreme	Left			Yes		MB_001.1.1	48.53441938000	65.17333333000	SITE 1 - NOTE: Width on original field sheet = length of site. Root density: 20%. Cows on left floodplain; almost no riparian buffer on left; right floodplain had decent riparian buffer- small trees and shrubs	748-757
Extreme	Right			Yes		MB_001.1.2	47.79473684000	154.07407410000	SITE 2 - The site is on the outer side of a sharp turn to the left; erosion created a wide channel (approx. 70') with a gravel bar and weeds in the center of the channel. Root density: 20%. NOTE: Width on original field sheet = Length of site.	758-769
Extreme	Left			Yes		MB_001.1.3	46.44807018000	210.64814810000	SITE 3 - Right side had decent riparian cover with willow like trees, Root density: 20%. NOTE: Width on original field sheet = length of site.	772-783
Extreme	Left			Yes		MB_001.1.5	50.85187970000	304.29629630000	SITE 5 - decent riparian buffer on right side: small trees and brush. Root Density: 20%. NOTE: width on original field sheet = length of site.	815-818
Extreme	Left			Yes		MS_12.1.2	53.88322637000	457.40740740000	Site 2, BW 30, buffer potential based on imagery.	3390-3390, 0041, 0043
Extreme	Left			Yes		MB_001.1.6	56.67211525000	133.56296300000	SITE 6 - NOTE: (no site 6) Site 7 on original field sheet. NOTE: width on original field sheet = length of site. Root Density: 5%. Left side had no significant riparian buffer; decent riparian buffer on right side: small trees and brush.	
Extreme	Right			No		MB_001.1.8	51.78322637000	70.20000000000	SITE 8 - NOTE: Site 9 on original field sheet. Root Density: 10%. NOTE: width on original field sheet = length of site.	3542-3546
Extreme	Left			Yes		MB_001.1.2b	48.61378446113	42.98666666667	SITE 2 - start LB erosion, cut off from RB floodplain, large gravel deposit	1272-1279
Extreme	Right			No		MS_11.1.5	47.30322637000	9.75000000000	SITE 5: Reach 7, Site 1, coming off high flow meander. Buffer potential based on imagery.	4037-4038
Extreme	Right			Yes		MS_11.1.3	49.73695906000	21.49333333000	SITE 3: Start Reach 3, Site 1	4027-4031
Extreme	N/A			N/A		UB_10.1.6	48.96655970000	42.12000000000	SITE 6 (Site 7) on left, Originally labeled site 7 on field sheet. Root Density 25%. Needs further buffer evaluation.	3319-3328
Extreme	N/A			N/A		UB_10.1.5	48.15029240000	1.45600000000	SITE 5 (Site 6) Beaver dam 4 channel to left; Start of Reach 5; Slight erosion on right bank above Beaver dam 4; photo IMG_3311.JPG; no evaluation made, Originally labeled site 6 on field form. Root density: 25%. Needs further buffer evaluation.	3312-3318
Extreme	Right			Yes		UB_10.1.4	51.10902256000	11.70000000000	SITE 4 (Site 5), Originally labeled site 5 on Field Form. Root Density 10%. Data sheet had 18 for BFH and 8 for Bank height, switched	3299-3304
Extreme	Right			N/A		UB_024.1.2	49.94553049000	73.95555556000	SITE 2 - debris jam, waterfall upstream - GPS lost 1:25 42.6400,-75.1848, braided channel just upstream	1034-1037
Extreme	Right			No		UB_10.1.2	46.69473684000	1.63800000000	SITE 2 - (Site 3); debris pile on left; channel to left of island ~150' long; no evaluation form	3259-3262
Extreme	Right			No		UB_10.1.1	53.31655970000	126.38888890000	SITE 1, Field root density: 25%	3247-3252
Extreme	Right			N/A		UB_022.1.2	53.18140351000	11.78666667000	Site 2, Measured root density: 20%	970-972
Extreme	Right			No		MS_08.1.3	52.80322637000	294.90740740000	Site 3, gravel bar below site, measured root density: 10, buffer potential based on imagery	937-954
Extreme	Left		Yes	Yes		MS_07.1.6	54.10584795000	117.09629630000	Site 2 start, Half dead tree at DS end, sharp bend in river= very high back stress. Buffer potential based on imagery and photos.	0125-0130
Extreme	Left			Yes		UB_022.1.6	54.24989303000	21.95555556000	SITE 6 - Riparian poor, SH 51 < 100 ft from site	894-897
Extreme	Right			Yes		UB_022.1.5	55.51655970000	57.14222222000	SITE 5 - riparian poor, old barb wire fence falling in stream	888-892
Extreme	Right			Yes		UB_022.1.4	47.59029240000	41.60000000000	SITE 4 - Riparian - shrubs and small trees, not much	877-882
Extreme	Left			Yes		UB_022.1.3b	46.72544859000	59.94444444000	SITE 3 - left - none, shrubs and grasses	866-873
Extreme	Right			Yes		MS_07.1.3	49.17251462000	32.76000000000	start site 3 - need riparian cover, Pipe at midpoint (see Alex's video) . (FW: 32.6)	0053-0058, 3439-3442
High	Left			Yes		MS_12.1.1	31.07923977000	12.03703704000	Site 1, buffer potential based on imagery.	3373,3377-3378, 0034
High	Left			Yes		MB_001B.1.2	35.65187970000	1.56000000000	SITE 2 - left, increase buffer density, bank height w/ lack of buffer; borders road, space woodland buffer of 8'	3519-3524
High	Right		Yes			MB_001A.2	35.36990926000	8.08888888900	SITE 2 - RB - drainages in Rb FP - get absorbed, deposition LB and fallen Ironwood with rootwad, cut off from floodplain upstream	1692-1700
High	Right			Yes		MS_11.1.8	36.83000000000	14.04000000000	Start of Site 2; channel split and channel-spanning beaver dam halfway through site, Measured % root density - 80%, right before channel split - site continues on right channel of split	6 to 15
High	Right			N/A		MB_001B.1.4	35.97749546000	1.87055555600	SITE 2 - right, unclear if buffer potential, bank height; lack of deep buffer ; braided channels,	1440-49
High	Right			Yes		MB_001B.1.3	36.62807018000	0.63671111100	SITE 1 - right, enhance buffer, down trees, land use ag bordering very narrow, sparse woodland at top of high bank, high, soft bank; lack of buffer; active field drainage	1433-37
High	Left	Yes		No		UB_025.1.1b	39.50511779000	8.16833333300	SITE 1	1137-1141
High	Left			N/A		UB_022.1.3	38.77603208000	15.16666667000	Site 3 (start), bedrock in bed, measured root density - 10%	988 - 992
High	Right			No		MS_07.1.1	38.28140351000	4.59564444400	Start Site 1, Long site: lower section substrate more with less cover and boulders in bank- see Alex video. Buffer potential based on imagery.	0009-0017

Moderate	Right			Yes		MS_12.1.3	27.84330827000	25.61481481000	Site 3, BW 25, buffer potential based on imagery, some buffer but could be enhanced.	3406-3410
Moderate	Left			No		MB_001B.1.1	20.39473684000	0.42250000000	SITE 1 - left, 10x30 ft gravel bar right bank, creek impinging on high, soft bank, LWD on left bank	3508-3512
Moderate	Left			No		MS_07.1.5	25.58148827000	1.93844444400	Start of site 1, almost at start of reach, possible rusty crayfish, beaver dam at the bottom. Buffer potential based on imagery and photos.	89-97
No BEHI	Right			Yes					blockage; channel to side, Erosion upstream of here RB, No BEHI, Followed up with USC - see triage report. Buffer potential based on imagery	
No BEHI	Right			Yes					photo of channel resulting from beaver dams; one of several in this reach. Erosion upstream of here RB, No BEHI, Followed up with USC - see triage report. Some buffer but looks like could be enhanced, buffer potential based on imagery.	3278
No BEHI	Right			Yes					Beaver dam 1; Start of Reach 3; upstream of here erosion, no BEHI but Followed up with USC - see triage report. buffer potential based on imagery	3271-3272
Very High	N/A			No		MS_12.1.4	43.33140351000	86.66666667000	Site 4, BW 26. (300ft on left bank, then, at bend in creek, erosion was on right bank for 50 ft, similar conditions like left bank was.) **B**uffer potential based on imagery.	3412-3416
Very High	Right			Yes		MB_001.1.4	40.16473684000	6.52166666700	SITE 4 - NOTE: width on original field sheet = length of site. Root density: 40%.	808-814
Very High	Right			No		MB_001.1.7	44.09211525000	9.75000000000	SITE 7 - NOTE: Site 8 on original field sheet. Root density: 60%. NOTE: width on original field sheet = length of site. Right side buffer seemed good; left side had trees but only ~30' from a hayfield. Estimated gps coordinates based on photos.	3535-3541
Very High	Left			Yes		MB_001.1.1b	41.16140351000	11.50500000000	SITE 1 - start, cut off from RB floodplain, deposition US of erosion site, small buffer LB with field behind, RB nice floodplain, could use more veg	1224-1234
Very High	Right			Yes/Recent plant		MS_11.1.7	42.17000000000	4.24000000000	Start of Site 1, think they measured BH from bottom of stream, measured % root density - 80%, tree tubes on left bank, gravel on LB	105-111
Very High	Right			Yes		MB_001A.1	41.15322637000	1.88066666700	SITE 1 - RB	1645-1648
Very High	Left			Yes		UB_027.1.1	44.72807018000	70.37333333000	Site 1	1373
Very High	Right			Yes		MS_11.1.6	43.37029240000	6.86833333300	SITE 6: Start Reach 7, Site 2, Based on photos think erosion on left bank, measured root density - 70%, clearcut left bank in upland with house construction, plant left bank (extend buffer)	4039-4043
Very High	Right			No		UB_027.1.1	43.75878192000	3.97222222200	SITE 1 - gravel bar on left bank across site; gravel bar on right side upstream of site	1320-1331
Very High	Right			Yes		MS_11.1.4	42.18695906000	8.97866666700	SITE 4: end of reach 6, site 1 reach 7, drainpipe coming within site	4032-4036
Very High	Right			Yes		UB_025.1.4	42.57174834000	11.26666667000	SITE 4 - gravel bar on left bank across from site; gravel bar on right side upstream of site	1241-1249
Very High	Left	Yes		Yes		UB_025.1.3	41.52395113000	16.90000000000	SITE 3	1193-1198
Very High	N/A	Yes		No		UB_025.1.2b	45.45322637000	17.29000000000	SITE 2	1189-1192
Very High	Left			Yes		MS_11.1.2	44.44638764000	7.49955555600	SITE 2: Site 2: 236 ft, 5-7 bare areas on high bank - side channel left bank. Buffer potential based on imagery.	4017-4021
Very High	Right			Yes		MS_11.1.1	41.84553049000	8.52800000000	SITE 1: Start of Reach 2 - Site 1 - high eroding bank	4012-4016
Very High	Left			No		UB_025.1.2	45.94767081000	6.83366666700	SITE 2-WP177, Bank side not noted, estimated Left bank from photos.	1055-1060
Very High	Right			No		UB_025.1.1	45.53655970000	4.71582222200	SITE 1 - bedrock and flat rocks on streambed. Movement of the creek over time towards Walters Rd is evident from dry stream beds on left of creek channel. Bank side not noted, estimated Right bank from photos.	1044-1048
Very High	Both			Yes		UB_024.1.1	40.33695906000	9.62962963000	SITE 1 - left bank armoring, right bank armoring, erosion right bank first 20', both banks armored, 100'	1029-1033
Very High	Left			Yes		UB_10.1.3	40.06473684000	31.20000000000	SITE 3 (Site 4), Start of Reach 2, Originally labeled site 4 on field form. Root Density: 50%. Followed up with USC - see triage report. buffer potential based on imagery	3263-3270
Very High	Left			Yes		UB_022.1.1	40.23655970000	0.52000000000	Site 1; mill building and stone wall on right bank; insufficient riparian buffer on left bank, % Root Density measured: 50%, Bed material small to medium stones, meander pattern low to moderate	964-969
Very High	Left			Yes		MS_08.1.2	43.43695906000	19.45185185000	Site 2 - Start, measured root density: 50, blockage below site, buffer potential based on imagery	909-930
Very High	Right			Yes		MS_08.1.1	41.53140351000	15.92620370000	Site 1 - Start, measured root density: 50, blockage below site, buffer potential based on imagery	906-908
Very High	Right			No		MS_07.1.7	43.82991810000	8.76296296300	Site 3 start. Buffer potential based on imagery and photos.	0131-0137
Very High	Right			Yes		MS_07.1.4	44.20140351000	9.31666666700	site 4 start, BFW: 22. Buffer potential based on imagery and photos.	0072-0075, 3458-3462
Very High	Right			No		MS_07.1.2	41.46989303000	13.74533333000	Site 2, Undercut at midpoint. Buffer potential based on imagery.	0034-0039
Very High	Right			No		UB_022.1.2b	45.76989303000	23.83333333000	SITE 2	845-851
Very High	Right			Yes		UB_022.1.1b	40.94767081000	6.76000000000	SITE 1 - left bank good, right bank mixed trees and brush, field extends to slope.	836-840

Appendix 4-1

NYS DEC Region 4 Fisheries Notes

New Lisbon Township
Region 4 Fisheries notes by Timothy Pokorny
August 2021

OUTLINE

Aquatic Resources

Watersheds

There are three watersheds in the New Lisbon Township, all managed by DEC's Region 4 staff. Butternut Creek watershed is located in the western portion, Otego Creek watershed in the eastern portion and one small tributary to Wharton Creek (tributary to Unadilla River) is located in the northwest corner of the township. All waters are within the upper east branch of the Susquehanna River (SR) watershed. The western part of the township includes several trout streams such as Butternut Creek with surface flows eventually reaching the Unadilla River. The eastern part of the township is drained mostly by the West Branch Otego Creek which flows south to Otego Creek (Fig. 1, Table 1). Headwater streams are a very important component of watersheds and overall health of the watershed.

Flowing waters

The sub-watersheds in the township include some 75 mostly unnamed tributary or feeder streams that wind some 87 river miles through the township (Fig 1, Table 1). Thirty-six of the streams in the township are protected trout (T) streams, of which 18 are protected for trout spawning (TS). The others are considered too warm for trout but may offer fishing (class C) for cool/warmwater stream fishes yet may hold trout during the colder seasons. Two drinking water (class A) streams (tributaries to Gilbert Lake) are located in the township.

Table 1. Flowing waters in New Lisbon Township, Otsego County, NY.

Waterbody	FIN[1]	Length[2] (RM)	Tributaries
Butternut Creek	SR-146-9	32.12	24
Stony Creek	SR-146-9-29	12.46	10
Mill Creek	SR-146-9-29-1	6.35	5
Unnamed Water	SR-146-36-8-2	0.34	
Wharton Creek	SR-172-13	1.01	2
Lake Brook	SR-172-18	1.03	2
Pool Brook	SR-172-20	6.47	7
Unnamed Stream	SR-172-26-1	0.04	
Unnamed Stream	SR-172-28	1.38	
West Branch Otego Creek	SR-172-29	16.46	9
Lena Brook	SR-172-29-4	9.60	5
	Total	**87.27**	

[1]FIN—fisheries index number, SR—Susquehanna River.
[2]Stream distance in linear river miles—RM, estimated using ArcGIS 10.

Brown trout is the most common trout stocked annually into NYS streams, yet there are many trout streams that are not stocked because they support wild self-sustaining populations of mostly native brook trout. No streams are stocked with trout in the township.

Brown trout stocking was terminated in Butternut Creek in 2012 in favor or the brook trout population. Fisheries surveys in 2011, 2013, and 2016 revealed a self-sustaining pollution of brook trout in Butternut Creek among very few left-over stocked brown trout despite stocking numbers similar to Otego/Wharton Creeks. DEC policy for stocking trout streams prevents placing brown trout on top of a self-sustaining native brook trout population. Butternut Creek continues to be monitored to assess the status of this recovering brook trout population that should allow a unique opportunity for anglers to pursue quality sized brook trout in Otsego County.

Many headwater streams may be fishable for only part of the year as water level fluctuate (i.e., spring/fall), and are fishless where streams dry up and go subterranean. Typically, these upper reaches receive little angling pressure but may offer fine wild brook trout action for adventurous anglers seeking these often small but feisty fish. Anglers may also find native brook trout above fish barriers (i.e., dams/culverts) in some headwaters and stocked or wild brown trout below fish barriers in slower/warmer flows. Both brook and brown trout migrate upstream each fall to spawn and can repopulate optimal stream reaches they can ascend. Because of this movement, it is common to see wild brown trout in tributaries where they were not stocked. In general, rainbow trout are not stocked into streams in NYS anymore but it is common for them to wash out of private pond during high water events. Rainbow trout spawn in the spring and may be found in some of the flowing waters in the township (Table 1), also known to naturalize in some streams to establish wild populations like brown trout.

DEC Fisheries completed a five-year evaluation in small flowing waters as part of the Eastern Brook Trout Joint Venture Project (2007-2011). Approximately 3,475 streams were surveyed for presence or absence of brook trout in Region 4 with >1000 streams slated for an upgrade to their classification of protection. Two C streams located within the township have been recommended as C(T), with two more as C(TS) or protected for trout spawning as well as presence, plus an additional 10 awaiting upgrade from C(T) to C(TS). Fisheries data is available for 40 streams, mostly due to the brook trout study. The other 20 headwater streams have not been sampled by DEC Fisheries. Of the 40 streams sample, 19 support brook trout, one supports brown trout, eight support brook and brown trout, three have only Cyprinids (minnow family), and no fish were found in nine streams. Many surveys found a mix of both young and older brook trout, while no rainbow trout were found in the headwater streams of the township during the study.

Ponded Waters

A recent search found 14 ponded waters >0.5 surface acre in the township. That largest waterbody is Gilbert Lake located within Gilbert Lake State Park. The second largest pond is Turtle Lake (aka Crystal Lake) where a large campground is located. Three ponds are classified as C(T), one is classified AA(T) and 10 are classified C (Table 2).

Table 2. Ponded waters >0.5 surface acres in the New Lisbon Township, Otsego Co., NY.

Waterbody	FIN[1]	Area[2] (acres)	Shore[2] (miles)	Dam	Class[3]
Gilbert Lake	SR-172-18-P287	40.2	1.20	Yes	AA(T)
Turtle Lake	SR-146-9-36-P208	27.1	1.17	Yes	C
Unnamed Pond	SR-172-29-3-2-P5577	14.1	0.70	No	C
Lake Of Twin Fawns	SR-146-9-29-2-P205A	7.8	0.63	Yes	C
Unnamed Pond	SR-146-9-29-5-P5611	7.0	0.47	No	C(T)
Unnamed Pond	SR-146-9-29-2-2-A-P5609	6.4	0.40	No	C
Card Pond	SR-146-9-34-P207	3.9	0.47	No	C
Unnamed Pond	SR-172-29-4-1-1-P5811	3.0	0.36	No	C(T)
Unnamed Pond	SR-172-20-4B-P5575	2.3	0.24	No	C
Unnamed Pond	SR-172-29-1-P290	2.2	0.32	No	C
Unnamed Pond	SR-172-20-P5610	1.6	0.19	No	C(T)
Spring Pond	SR-146-9-29-2-P205B	1.4	0.20	No	C
Unnamed Pond	SR-172-20-4A-P5576	0.9	0.18	No	C
Unnamed Pond	SR-146-9-29-2-P205C	0.7	0.15	No	C
	Total	**118.5**	**6.70**		

[1]FIN—fisheries index number, SR—Susquehanna River, P—pond no.
[2]All surface area and shore distance for unnamed ponds estimated using ArcGIS 10.
[3]Stream classifications: A—drinking water, swimming, and fishing. C—fishing only.

Gilbert Lake, three ponds and the state park (1,584 acres) with the same name is a popular local treasure. The park was built by the Civilian Conservations Corps between 1933 and 1941. Gilbert Lake is roughly 41 acres with a maximum depth of 20+ feet. Every spring Gilbert Lake receives some 600 rainbow trout and 100 brown trout and sometimes receives surplus trout in the fall. Gill netting in August of 2015 revealed a fish community consisting of rainbow trout, brown trout, pumpkinseed, and largemouth bass. Stocked trout offer a decent put-and-take fishery with some holdover fish available to anglers in the fall and following spring. Limited spawning and recruitment have been documented in the larger tributary to the lake and park employees have observed spawning fish most years. The lake is managed as a two-story fishery. No known fish surveys by NYSDEC have been conducted on Lake of Twin Ponds and the two unnamed ponds within the state park. These waters most likely provide some warmwater fishing opportunities for anglers adventurous enough to seek out these waters.

Turtle Lake (AKA Crystal Lake) is located at a privately owned campground. Camping at the campground and possible day passes would provide anglers access to this lake. NYSDEC generally doesn't sample private waters and thus is the case with this lake. Although, we often obtain fishing reports from anglers and have received reports of largemouth bass, chain pickerel, black crappie, sunfish, and brown bullheads being caught in this waterbody. Card Pond and Spring Pond are privately owned. Spring Pond was sampled in 1960, largemouth bass and creek chubsuckers were found.

Very little is known about these small unnamed ponded waters in the township (Table 1). The larger ponds may offer some decent opportunities for a chance to catch various warmwater fishes (i.e., bass, sunfish), likely to be present in small-moderate numbers. Furthermore, ice fishing opportunities may exist for most all fishable non-trout ponds when safe ice conditions exist during cold winters and access is not impeded by heavy snowfall.

Aquatic Habitat Protection
Headwaters in the rural New Lisbon Township (Fig. 1) are considered moderate-high quality because of the steady source of relatively clean/cold groundwater, a decrease in farming over time, and lack of other anthropogenic impacts (i.e., development) associated with urban areas. The presence of trout, a keystone species, sets the standard for stream protection in NYS as many other aquatic organisms are protected once a stream is designated T or TS (trout spawning). Trout stream organisms in particular need cold water, clean substrate, pool-riffle-run habitats, and riparian canopy cover to meet their basic needs for survival, growth, and reproduction. Because of their remoteness, it is very important that DEC programs have knowledge of and manage any proposed construction projects (i.e., logging) associated with these headwaters. When necessary, all projects in/near protected surface waters of the state should be reviewed and followed by the appropriate environmental permit(s) that give guidance on state and/or federal standards indented to protect vulnerable aquatic resources.

Projects associated with trout streams often require contractors to avoid aquatic habitats or mitigate if disturbed because even minor changes in water quality parameters due to stream work (i.e., turbidity) can be detrimental to trout populations. Unfortunately, these issues are common, especially when working near a riparian corridor, roadway or stream crossing (i.e., bridge/culvert), where unstable or steep banks are eroding into waterways after a flood event and/or a structure failure. Violations can often be avoided with effective communication between landowners, contractors, and agency staff. We recommend that folks always ask for free consultation before starting any project in/near any surface waters of the state. Fines and mitigation measures can be costly to the violator and landowners are usually responsible for all work being done on their property. We recommend avoiding any disturbance to aquatic systems and report any suspected violations of NYS law to the nearest DEC Regional office.

Fisheries Management

Objectives: To manage our inland fisheries resources in the public waters of the region on behalf of the people of NYS with guidance from standard DEC policies. Management is an ongoing process of continuous data collection to monitor resources and communicating with various stakeholders to meet their needs and attend to questions/concerns that arise. DEC is often faced with various issues and public demands that range in complexity and duration. Fisheries surveys are an important management tool that helps assess current conditions, update baseline data, and monitor changes over time. Stocking adjustments and regulation changes are other tools DEC utilizes.

Fish Stocking
The DEC Bureau of Fisheries operates 12 fish hatcheries statewide raising millions of fishes (mostly trout) to be stocked annually into the public waters of NYS. Most stocking is managed by region to supplement or maintain specific sportfish populations. Stocking is an important management tool, typically used for specific waters where natural production of a species is inadequate to sustain enough legal-sizes adults of a fish species to support local fishing pressure. A completed list of what fishes are stocked where and when is located on the DEC website (see below). Various private hatcheries in NYS also grown and sell fish (mostly trout) for stocking into both public and private waters (i.e., ponds) via a valid stocking permit issued by DEC. All fishes indented to be stocked into the waters of the state or sold as bait must be batch-sampled and certified disease-free before being ordered/purchased/transported.

As mentioned above, the DEC stocks various waters. However, it is possible for various stocked fishes to find their way up into adjacent non-stocked waters during normal seasonal migrations or swept downstream during high water events. Common pond fishes like bass and sunfish are often found in streams after escaping from private ponds during high water events when dams fail or pond levels are overtopped. Many introduced fishes can become established in their new habitat and form naturalize populations with some becoming invasive species once feral (i.e., grass carp), which can disrupt entire ecosystems. Remember it is never ok or legal to release live bait into any waterbody.

Fishing Regulations
The DEC's Bureau of Fisheries regulates fisheries resources and angler harvest of many fish species by using a general statewide or more specific waterbody regulation to best support long-term productivity of

the diverse sport fisheries in NYS. Region 4 is dominated by coldwater streams with statewide regulations that allow angling for trout in flowing waters all year with a creel season of April 1st to October 15th each year and a catch and release, artificial only season from October 16th to March 31st.. Gilbert Lake is managed under a special trout regulation that allows for a daily limit of 3 trout/12" or greater in total length from April 1st to November 30th and icefishing is prohibited. When in doubt, always check the latest version of the DEC freshwater fishing regulations (see weblink below) for updates and before planning a fishing trip. Guidebooks are available anywhere you buy a fishing license and any DEC Fisheries office.

Fisheries Surveys

Other than the effort for the more recent brook trout study (2007-2011) and random CROTS—catch rate oriented trout stocking surveys on named trout streams (Table 1), water quality and local fish populations are not routinely monitored in headwater streams. Fish surveys are often limited to gathering specific data such as the status/condition of a fish species or fish community (i.e., trout, coldwater) on larger waterbodies that seem more fishing pressure. DEC does monitor the condition/health of various sport fishes in their respected communities, mostly for presence or levels of specific toxins/diseases in wild fish in larger waters as requested by DEC administration. To assess the current status of a rare or declining species in a waterbody (i.e., American eel), DEC Fisheries has team up with other cooperators such as a SUNY Oneonta to organize project goals and objectives, collect/analyze data and then summarize/report findings.

Once completed, most fisheries survey data are entered into an extensive statewide fisheries database for future use by agency staff, professional consultants, and academia. When DEC staff time permits, survey summaries and special project reports are completed and made available to the public. Study findings are also presented to our local sports groups and colleges upon request. Deliverables like comprehensive fisheries management plans and reports are less common but are warranted for our larger more popular fisheries. Due to limited staff time and the many small headwaters in township, very few Fisheries reports exists to explain in details the many unique opportunities awaiting anglers in these public waters.

Public Fishing/Boating Access

DEC Region 4 staff operate a successful public fishing/boating access program based on collaboration with numerous program staff, other agencies, and local stakeholders. To a lesser extent, DEC Fisheries also educates the public and hosts outreach events throughout the year but staff time and funding is very limited. Fortunately, relatively new legislation allows groups to apply for a free fishing event they must host on a public waterbody, thus providing a unique opportunity for newcomers to enjoy fishing without a license fee. See the weblink below for more details on free fishing events, which are offered year-round, including free fishing days for all anglers during President's week in February and Veteran's Day in November in addition to the last full weekend in June each year.

Opportunities

Public Fishing Rights—PFR are specific state-purchased easements located mainly on trout streams to allow footpath access to/from streams along shorelines for fishing only. There is PFR access on Butternut Creek and DEC owned lands provide access to other flowing waters. A statewide interactive trout mapper is available online (see Interactive Map link below). Access to public waters in NYS is purchased and managed for the benefit of the people of NYS. We recommend all users tread lightly, respect our natural resources, and carry in/out of all artificial refuse. The extra effort it may take to reach these remote waters could result in a memorable outdoor experience for everyone involved.

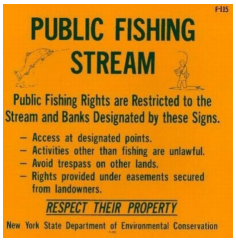
Online References

NYSDEC homepage: www.dec.ny.gov
DEC Regions: http://www.dec.ny.gov/about/244.html
FW Fishing Regulations: www.dec.ny.gov/outdoor/7917.html
Free Fishing Days: http://www.dec.ny.gov/outdoor/89821.html
Fish Stocking in NY by County: www.dec.ny.gov/outdoor/7739.html
Public Fishing Rights (PFR): www.dec.ny.gov/outdoor/7746.html
PFR and the landowner: www.dec.ny.gov/outdoor/9922.html

Posted Lands & Navigation under ECL: www.dec.ny.gov/outdoor/8371.html
DEC Interactive Trout Map: https://www.dec.ny.gov/pubs/109457.html
Public Navigation Rights: www.protectadks.org/programs/commcons/navigation-rights.pdf
Boating in NYS: https://parks.ny.gov/recreation/boating/

Fully Accessible Recreation Sites for People with Disabilities
Fishing Access for Anglers with Disabilities: www.dec.ny.gov/outdoor/31539.html
Motorized Access Program: www.dec.ny.gov/outdoor/34035.html
- download a permit application & list of CP-3 sites (on PDF)
Fishes of New York State

ADDITIONAL Map Products
County Highway maps (see local stores, gas stations, town/county offices)
2009 Catskill Park Outdoor Map (Greene, Delaware, Sullivan, Ulster counties)
Order online: www.vomaps.com OR see local sporting goods shops



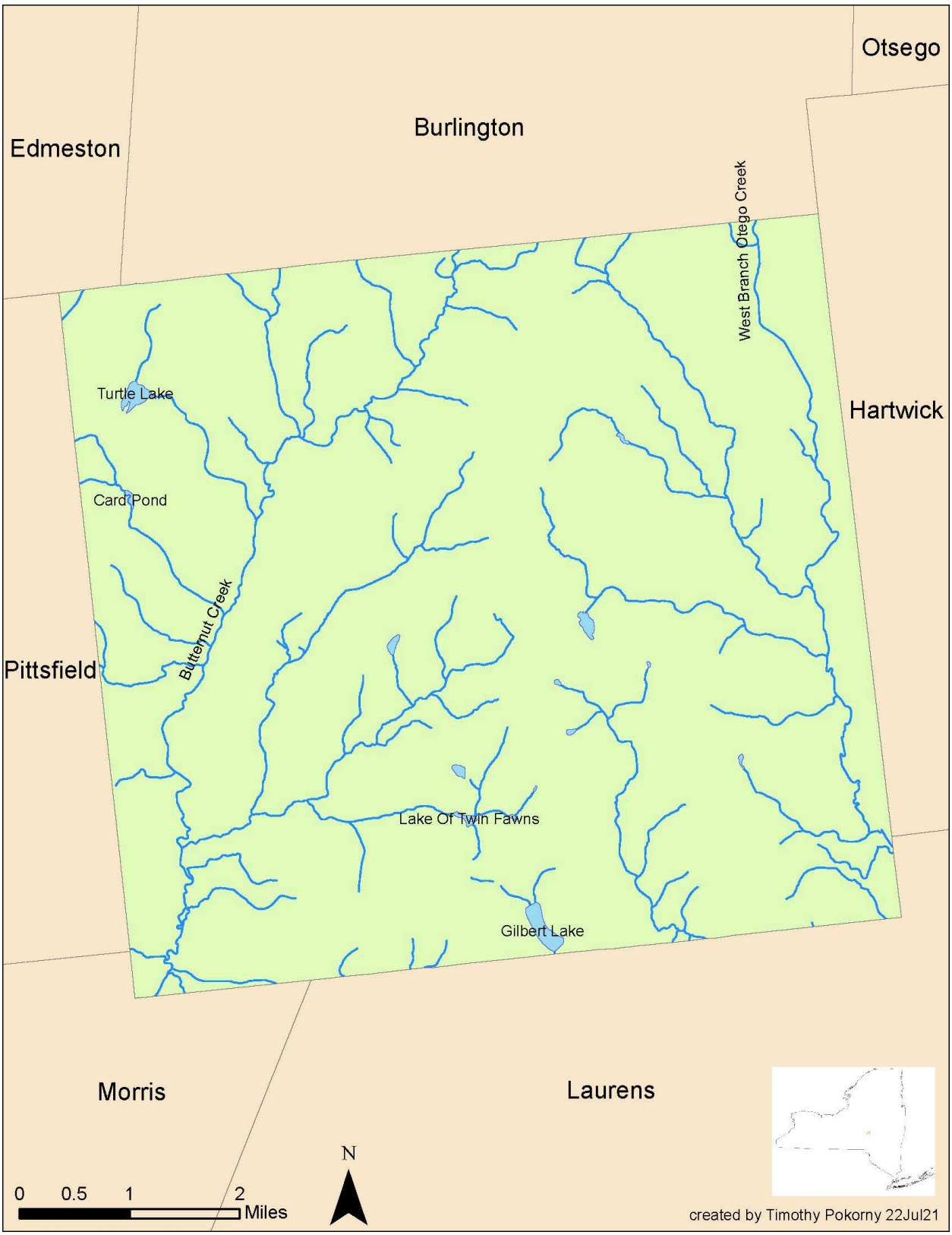


Figure 1. Map of aquatic resources in New Lisbon Township, Otsego Co., NY. Blue lines represent lotic waters and blue polygons represent lentic waters.

Appendix 4-2

Bird Survey Data

Appendix 4-1

New Lisbon Bird Data	
Species	**Breeding Evidence**
Canada Goose	Confirmed (ON)
Wood Duck	Possible (H)
Mallard	Probable (P)
Common Merganser	Probable (C)
Wild Turkey	Confirmed (FL)
Rock Pigeon	Possible (H)
Mourning Dove	Confirmed (FL)
Ruby-throated Hummingbird	Possible (H)
Killdeer	Confirmed (FL)
Great Blue Heron	Possible (H)
Turkey Vulture	Possible (H)
Barred Owl	Confirmed (NY)
Red-shouldered Hawk	Probable (A)
Broad-winged Hawk	Possible (H)
Red-tailed Hawk	Possible (H)
Belted Kingfisher	Probable (P)
Yellow-bellied Sapsucker	Confirmed (NY)
Downy Woodpecker	Confirmed (FY)
Hairy Woodpecker	Confirmed (FL)
Northern Flicker	Confirmed (FL)
American Kestrel	Possible (H)
Eastern Wood-Pewee	Possible (S)
Least Flycatcher	Possible (S)
Eastern Phoebe	Possible (S)
Great Crested Flycatcher	Probable (P)
Eastern Kingbird	Probable (P)
Blue-headed Vireo	Possible (S)
Warbling Vireo	Possible (S)
Red-eyed Vireo	Confirmed (NB)
Blue Jay	Possible (H)
American Crow	Possible (H)
Common Raven	Possible (H)
Black-capped Chickadee	Confirmed (FL)
Tufted Titmouse	Possible (H)
Tree Swallow	Possible (H)
Barn Swallow	Confirmed (FY)
Red-breasted Nuthatch	Possible (S)
White-breasted Nuthatch	Confirmed (FL)
Brown Creeper	Possible (S)

House Wren	Confirmed (CF)
Winter Wren	Possible (S)
European Starling	Confirmed (CF)
Gray Catbird	Confirmed (FY)
Brown Thrasher	Confirmed (CF)
Veery	Probable (P)
Hermit Thrush	Possible (S)
Wood Thrush	Probable (P)
American Robin	Confirmed (NB)
Cedar Waxwing	Confirmed (CN)
House Finch	Confirmed (NY)
Purple Finch	Possible (S)
American Goldfinch	Probable (P)
Chipping Sparrow	Confirmed (CF)
Field Sparrow	Possible (S)
Dark-eyed Junco	Confirmed (CF)
White-throated Sparrow	Possible (S)
Savannah Sparrow	Possible (S)
Song Sparrow	Confirmed (FL)
Swamp Sparrow	Possible (S)
Eastern Meadowlark	Probable (P)
Eastern Towhee	Possible (S)
Bobolink	Confirmed (CF)
Baltimore Oriole	Probable (P)
Red-winged Blackbird	Confirmed (CF)
Brown-headed Cowbird	Possible (H)
Common Grackle	Confirmed (FY)
Ovenbird	Possible (S)
Northern Waterthrush	Possible (S)
Blue-winged Warbler	Possible (S)
Mourning Warbler	Possible (S)
Common Yellowthroat	Confirmed (FL)
Hooded Warbler	Possible (S)
American Redstart	Confirmed (CF)
Magnolia Warbler	Possible (S)
Blackburnian Warbler	Confirmed (CF)
Yellow Warbler	Probable (P)
Chestnut-sided Warbler	Possible (S)
Pine Warbler	Possible (S)
Yellow-rumped Warbler	Possible (S)
Prairie Warbler	Possible (S)
Black-throated Green Warbler	Possible (S)
Scarlet Tanager	Possible (S)

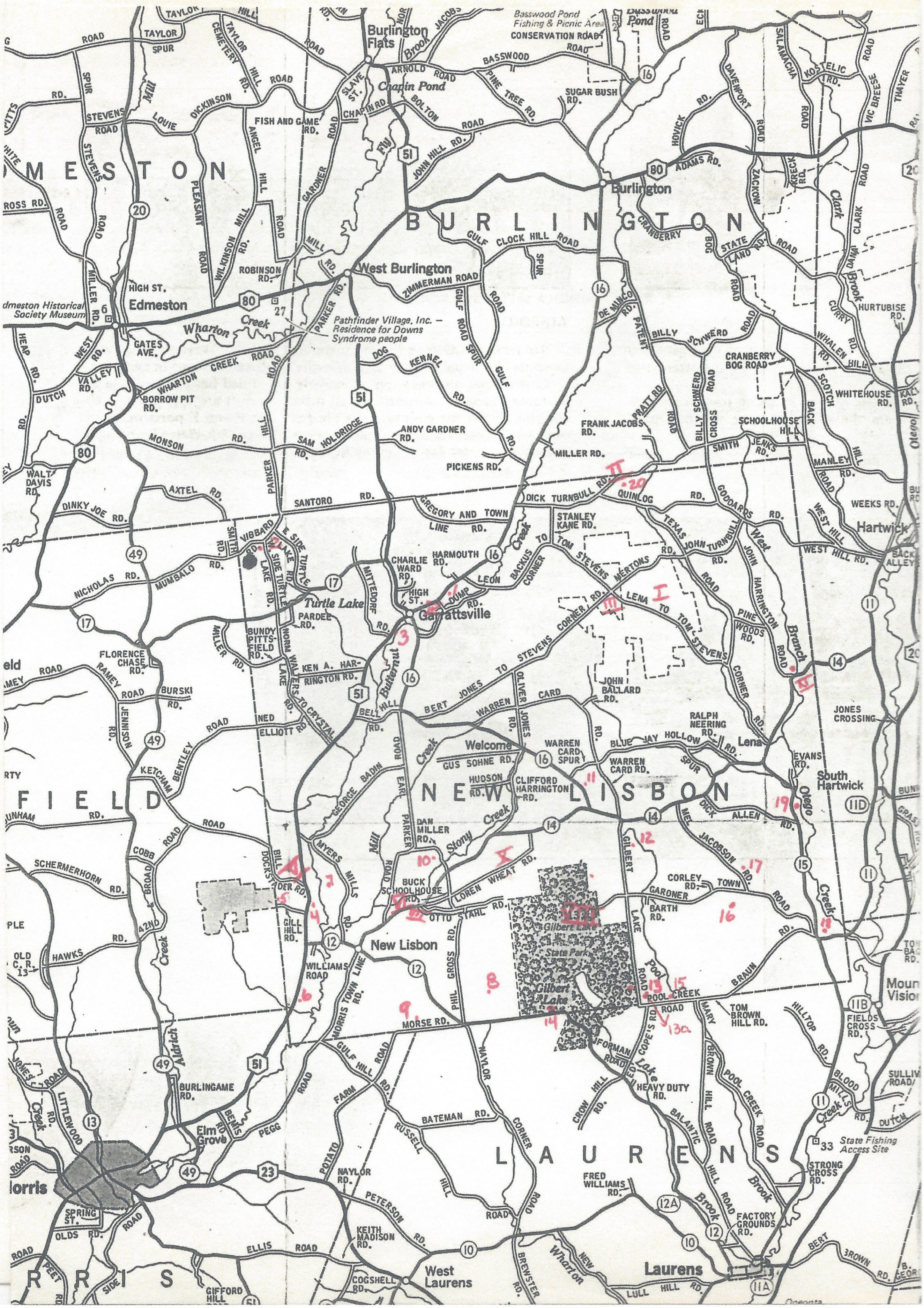
Northern Cardinal	Probable (P)
Rose-breasted Grosbeak	Probable (P)
Indigo Bunting	Confirmed (CF)

Appendix 6-1

Cemeteries Map

TABLE OF CONTENTS

Note: Number immediately following name of cemetery indicates location of cemetery on Map (see pg. ii).



Burlington Flats
Basswood Pond Fishing & Picnic Area
Basswood Pond
CONSERVATION ROAD
Chapin Pond
Burlington
BURLINGTON
West Burlington
EDMESTON
Edmeston
Edmeston Historical Society Museum
Wharton Creek
Pathfinder Village, Inc. – Residence for Downs Syndrome people
Turtle Lake
Garrattsville
Welcome
NEW LISBON
New Lisbon
Lena
South Hartwick
Hartwick
Gilbert Lake State Park
Gilbert Lake
LAURENS
Laurens
West Laurens
Elm Grove
JONES CROSSING
Mount Vision
State Fishing Access Site
Otego Creek
Butternut Creek
Stony Creek
Pool Creek
Oneonta
Basswood Road
Pine Tree Rd.
Sugar Bush Rd.
John Hill Rd.
Adams Rd.
Zimmerman Road
Clock Hill Road
Gulf Road Spur
Dog Kennel Rd.
Andy Gardner Rd.
Pickens Rd.
Miller Rd.
Frank Jacobs Rd.
Pratt Rd.
Billy Schwerd Road
Cranberry Bog Road
Schoolhouse Hill
Smith Jenks Rd.
Dick Turnbull Rd.
Quinlog Rd.
Santoro Rd.
Gregory and Town Line Rd.
Stanley Kane Rd.
Tom Stevens Corner Rd.
Mertons
Lena to Tom Stevens Corner Rd.
John Turnbull Rd.
John Harrington Road
Pine Woods Rd.
West Branch
West Hill Rd.
Weeks Rd.
Back Alley
Charlie Ward Rd.
Harmouth Rd.
Leon Backus Corner
Mittedorf Rd.
Pardee Rd.
Bundy Pittsfield Rd.
Norm Walters to Crystal Lake Rd.
Ken A. Harrington Rd.
Bell Hill Rd.
Bert Jones to Stevens Corner Rd.
Oliver Jones Rd.
Warren Card Rd.
Warren Card Spur
John Ballard Rd.
Ralph Neering Rd.
Blue Jay Hollow Rd.
Gus Sohne Rd.
Hudson Rd.
Clifford Harrington Rd.
George Badin Rd.
Earl Parker Road
Dan Miller Rd.
Buck Schoolhouse Rd.
Loren Wheat Rd.
Otto Stahl Rd.
Gilbert Lake Rd.
Gardner Rd.
Corley Rd.
Mel Jacobson Rd.
Dick Allen Rd.
Barth Rd.
Braun Rd.
Tom Brown Hill Rd.
Hilltop Rd.
Fields Cross Rd.
Morse Rd.
Phil Gross Rd.
Morris Town Line Rd.
Williams Road
Gill Hill Rd.
Myers Mills
Gulf Hill Rd.
Naylor Rd.
Bateman Rd.
Russell Hill Road
Corner Road
Forman Rd.
Cope's Rd.
Heavy Duty Rd.
Crow Hill Rd.
Balantic Hill Road
Brown Hill Road
Pool Creek Road
Fred Williams Rd.
Factory Grounds Rd.
Strong Cross Rd.
Blood Mills Rd.
Peterson Rd.
Keith Madison Rd.
Ellis Road
Cogshell Rd.
Brewster Rd.
Lull Hill Rd.
Bert Brown Rd.
Potato Farm Road
Pegg Road
Burlingame Rd.
Littlewood Rd.
Spring St.
Olds Rd.
Hawks Rd.
Schermerhorn Rd.
Cobb Road
Broad Rd.
Aldrich Creek
Ketcham Rd.
Bentley Road
Ned Elliott Rd.
Jennison Rd.
Burski Rd.
Ramey Road
Florence Chase Rd.
Miller Rd.
Nicholas Rd.
Mumbalo Rd.
Dinky Joe Rd.
Axtel Rd.
Walt Davis Rd.
Monson Rd.
Sam Holdridge Rd.
Parker Hill Rd.
Parker Rd.
Borrow Pit Rd.
Wharton Creek Road
Dutch Valley Rd.
West Rd.
Gates Ave.
Heap Rd.
High St.
Miller Rd.
Robinson Rd.
Wilkinson Mill Rd.
Pleasant Road
Gardner Road
Angel Hill Road
Fish and Game Rd.
Dickinson Road
Louie
Stevens Road
Taylor Spur
Taylor Cemetery
Taylor Hill Road
Ross Rd.
Arnold Road
Bolton Road
Chapin Rd.
Slave St.
Jacobs
Davenport Road
Salamacha Road
Kostelic Rd.
Vic Breese
Thayer
Howick Rd.
Zackow Road
Clark Road
Clark Brook
State Land Rd.
Cranberry Bog Road
Curry Rd.
Hurtubise Rd.
Whalen Hill
Scotch Back Hill
Whitehouse Rd.
Manley Road
De Mingo Rd.
Patent Rd.
I
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Appendix 7-2

Scenic Resources Facebook Reactions

Town of New Lisbon, NY - Unofficial
February 28 at 12:24 PM ·

Which of the following, or which other site, is your favorite scenic viewpoint within the town?

1. the beaver pond and heron rookery at Texas Schoolhouse State Forest
2. the view of the Butternut Valley coming down CR12 into the valley
3. the large pond on the south side of Blue Jay Hollow Road
4. the Butternut Creek looking upstream from the bridge at CR16
5. the Butternut Creek looking upstream from the bridge at CR12
6. the Butternut Creek looking upstream from the bridge at Myers Mills Road
7. the Butternut Creek looking downstream from the bridge at Myers Mills Road
8. the large pond on County Highway 14 at County Highway16
9. the view looking south on Parker Road at Bardin Road
10. the view from the top of Turnbull Road just below the Burlington town line looking southeast down into the valley
11. various sites in Gilbert Lake State Park, such as _____, _____, ____,
12. the wetlands on the West Branch Otsego Creek looking downstream from Goddards Road
13. Mill Creek looking up from SH51 in Garrattsville
Stoney Creek looking upstream from Myers Mills Road
14. the view from the top of the hill on CR 14 between CR16 and S. Welcome Road
15. the view from the north side of Walters Road looking down to the creek that passes under Walters Road between Elliott and Harrington Roads

429	103	–	Boost post
People reached	Engagements	Distribution score	

You and 5 others 17 Comments 1 Share

Like Comment Share

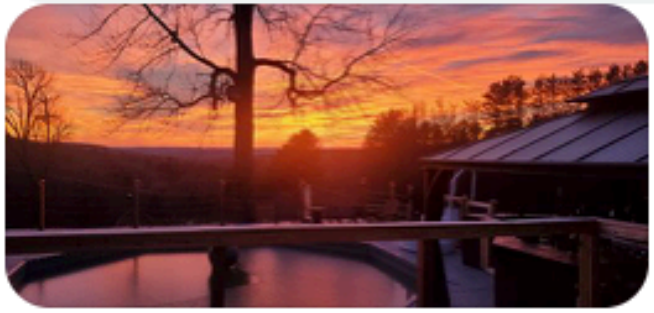
All comments

Comment as Town of New Lisbon, NY - Unofficial

Jennifer Smith
The sunrise on Allen Road across from the log cabin as you make the bend (cty rte 14 to 15)

Like Reply Hide 1w 1

Mindy Lovett
The view from our back door ,top of the hill on Jones rd looking toward Morris



Like Reply Hide 1w 4

Michael Marzocco
6&7, in October 1

Like Reply Hide 1w

Derek Schoellig
I enjoy them all. Could add a few! 2

Like Reply Hide 1w

John Bugyi
5 1

Like Reply Hide 1w

↳ 1 Reply

Sonja Galley
The view from our pasture looking north towards Garrattsville.

Sonja Galley
The view from our pasture looking north towards Garrattsville.

Like Reply Hide 1w Edited

9

Dauna Osborne
None please me as much as mine 😉 Looking down 51 south towards Myers Mills.

Like Reply Hide 1w

3

Abigail McEnroe
My back yard.... 1

Like Reply Hide 1w

Scott Fickbohm
Wow. We live in a beautiful place 1

Like Reply Hide 1w

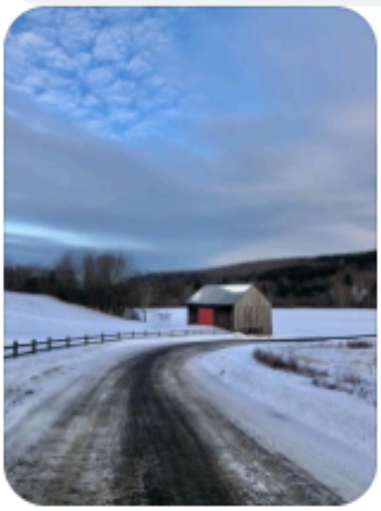
Russ Tilley
#3 and the sunrise on county 14 just before CR16

Russ Tilley
#3 and the sunrise on county 14 just before CR16

1

Like Reply Hide 1w

Cheryl Lee Goodspeed
The weathered Barn on Bell Hill Rd



9

Like Reply Hide 1w

↳ 1 Reply

Derrick LaTour
14. best sunsets 1

Like Reply Hide 1w

Joanne Long
13 1

Like Reply Hide 1w

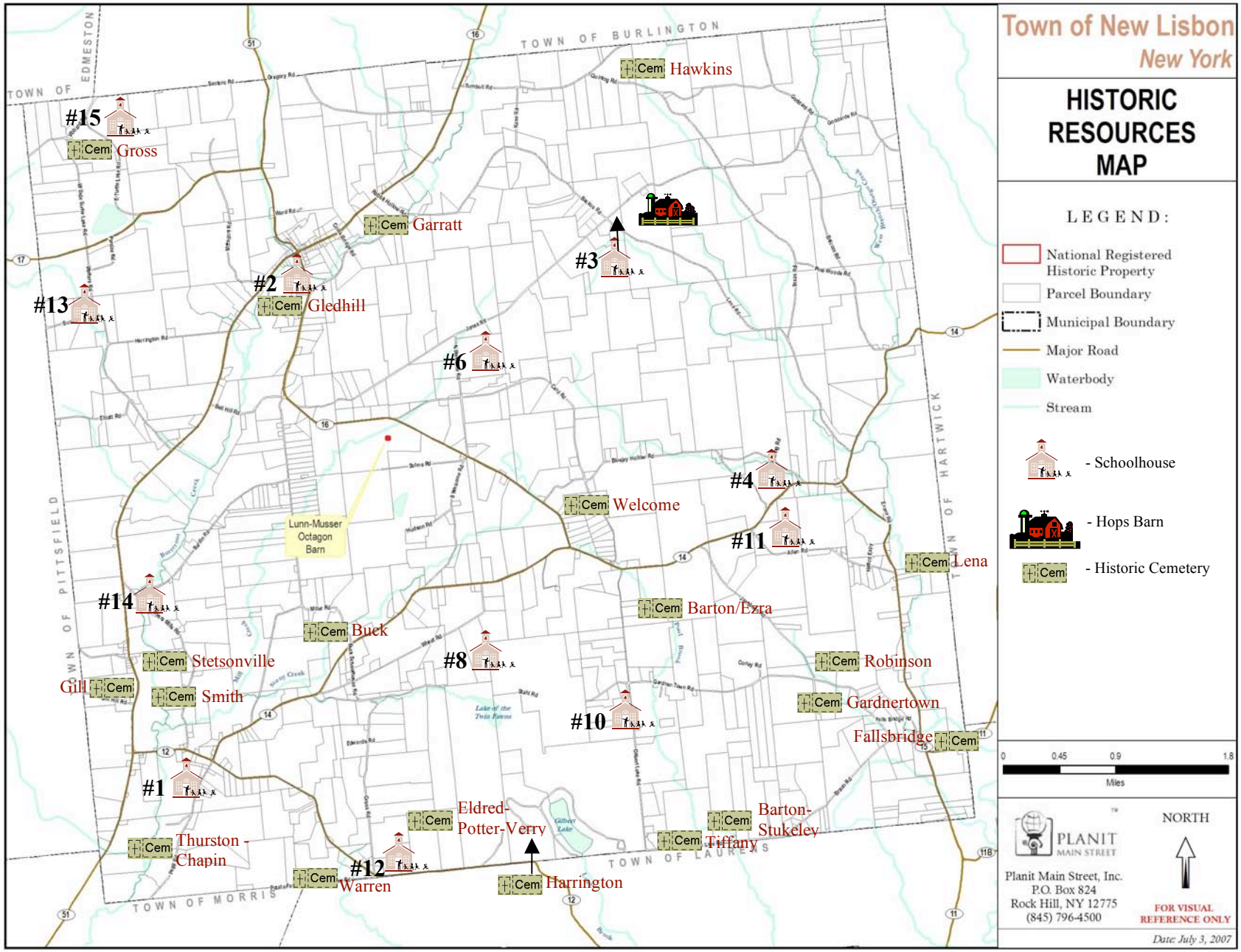
Frank Rock Smokehaven Shepherds
9 was awesome for years -Was told by some downstaters it was a million-dollar view then the people in back of me planted norway spruce on purpose (long story).The view is blocked from everything but the top of my roof=Progress???

Like Reply Hide Send Message 1w Edited

Jesse Jacobsen
I enjoy #2 1

Appendix 7-3

Historic Resources Map


Town of New Lisbon
New York
HISTORIC RESOURCES MAP
LEGEND:
National Registered Historic Property
Parcel Boundary
Municipal Boundary
Major Road
Waterbody
Stream
- Schoolhouse
- Hops Barn
- Historic Cemetery
TOWN OF BURLINGTON
TOWN OF EDMESTON
TOWN OF PITTSFIELD
TOWN OF HARTWICK
TOWN OF MORRIS
TOWN OF LAURENS
Cem Hawkins
#15
Cem Gross
Cem Garratt
#2
Cem Gledhill
#13
#3
#6
#4
Cem Welcome
#11
Cem Lena
Lunn-Musser Octagon Barn
#14
Cem Barton/Ezra
Cem Buck
#8
Cem Stetsonville
Cem Robinson
Gill Cem
Cem Smith
Cem Gardnertown
#10
Fallsbridge Cem
#1
Cem Eldred-Potter-Verry
Cem Barton-Stukeley
Cem Thurston - Chapin
Cem Tiffany
#12
Cem Warren
Cem Harrington
0 0.45 0.9 1.8
Miles
NORTH
PLANIT MAIN STREET
Planit Main Street, Inc.
P.O. Box 824
Rock Hill, NY 12775
(845) 796-4500
FOR VISUAL REFERENCE ONLY
Date: July 3, 2007