

Petersham, Massachusetts

OPEN SPACE AND RECREATION PLAN

2024



Brooks Woodland Preserve. Photo by M. Arduser. Courtesy of The Trustees.

Gina Quattrochi, Leah Stanton, and Eric Rose
The Conway School, Winter 2024



The Commonwealth of Massachusetts
Executive Office of Energy and Environmental Affairs
100 Cambridge Street, Suite 900
Boston, MA 02114

Maura T. Healey
GOVERNOR

Kimberley Driscoll
LIEUTENANT GOVERNOR

Rebecca L. Tepper
SECRETARY

Tel: (617) 626-1000
Fax: (617) 626-1081
<http://www.mass.gov/eea>

December 5, 2024

Anne Cavanaugh, Chair
Petersham Open Space and Recreation Committee
3 South Main Street
P.O. Box 486
Petersham, MA 01366-0486

Re: Open Space and Recreation Plan

Dear Ms. Cavanaugh:

Thank you for submitting the Open Space and Recreation Plan for Petersham to this office for review and compliance with the current Open Space and Recreation Plan Requirements. I'm pleased to write that the plan has received final approval and the town is eligible to apply for DCS grants through November 2031. Please contact me at melissa.cryan@mass.gov if you have any questions or concerns.

Sincerely,

Melissa Cryan

Melissa Cryan
Grant Programs Supervisor

We would like to thank the following for their contributions to this plan:

Massachusetts Executive Office of Energy and Environmental Affairs

Kurt Gaertner, Assistant Secretary for Environmental Policy,
for the Planning Assistance Grant that funded this plan.

Petersham Open Space and Recreation Committee and
Core Planning Team Subcommittee:

Anne Cavanaugh, Chair,
Henry Woolsey,
Ari Puglise,
Carly Hutchinson,
Tyson Neukirch,

and

Bob Clark,
Jennifer Albertine, Kim Tomey, Clarisse Hart,
Cynthia Henshaw, Rich Cavanaugh, Ann Lewis,
Clint Shaw, Emery Boose, Aaron O'Connor,
Justin Liversidge, Fraser Sinclair, Ellen Anderson,
Andrea Gale, Brian Hall, Aaron Nelson,
Glenn Motzkin, Sue Dougherty, Deb Poodry,
Greg Waid, Maryanne Reynolds,

and

faculty, staff, and students at the Conway School,
John O'Keefe, Jamie Pottern, Chris Company,

and

the residents of Petersham.

A note on maps:

The maps in this document are made with Geographic Information System data from MassGIS and other sources as noted. Map information is believed to be accurate, but accuracy is not guaranteed. Viewers are encouraged to examine the source's associated documentation or metadata for information related to its accuracy, currentness, and limitations. These maps are for informational and planning purposes only and should not be construed as legal descriptions.

the Conway School
Graduate Program in Sustainable Landscape Planning + Design

The Conway School is the only institution of its kind in North America. Its focus is sustainable landscape planning and design, and its graduates are awarded a Master of Science in Ecological Design degree. Each year, students from diverse backgrounds are immersed in a range of real-world design and planning projects, ranging from sites to cities to regions.

Table of Contents

Section 1. Plan Summary.....	Page 1
Section 2. Introduction.....	Page 3
A. Statement of Purpose.....	Page 4
B. Planning Process and Public Participation.....	Page 6
Section 3. Community Setting.....	Page 8
A. Regional Context.....	Page 9
B. History of the Community.....	Page 15
C. Population Characteristics.....	Page 19
D. Growth and Development Patterns.....	Page 24
Section 4. Environmental Inventory and Analysis.....	Page 35
A. Geology, Soils and Topography.....	Page 36
B. Landscape Character.....	Page 46
C. Water Resources.....	Page 49
D. Vegetation.....	Page 63
E. Fisheries and Wildlife.....	Page 67
F. Scenic Resources and Unique Environments.....	Page 77
G. Environmental Challenges.....	Page 81
Section 5. Inventory of Lands of Conservation and Recreation Interest.....	Page 86
A. Private and Nonprofit Parcels.....	Page 89
B. Public Parcels.....	Page 97
C. Recreation Lands.....	Page 102
D. Regional Connectivity of Open Space Lands.....	Page 105

Section 6. Community Vision.....	Page 109
A. Description of Process.....	Page 110
B. Statement of Open Space and Recreation Goals.....	Page 112
Section 7. Analysis of Needs.....	Page 113
A. Summary of Resource Protection Needs.....	Page 114
B. Summary of Community's Needs.....	Page 118
C. Management Needs, Potential Change of Use.....	Page 120
Section 8. Goals and Objectives.....	Page 123
Section 9. Seven-Year Action Plan.....	Page 127
Section 10. Public Comments.....	Page 144
Section 11. References.....	Page 159
Appendix A: 2023 OSRP Community Survey Results.....	Page 167
Appendix B: OSRP Community Engagement Meeting Agendas.....	Page 211
Appendix C: OSRP Community Engagement Meeting Results.....	Page 220
Appendix D: Core Team Center School Visit.....	Page 228
Appendix E: Conservation Strategies and Resources.....	Page 233
Appendix F: Quabbin Reservoir Watershed System Public Access Policies.....	Page 235
Appendix G: ADA Access Self-Evaluation.....	Page 239

Section 1 Plan Summary



Rutland Brook Wildlife Sanctuary. Photo by L. MacMillan. Copyright 2014 by Massachusetts Audubon Society, Inc. (Mass Audubon), 208 South Great Road, Lincoln, MA 01773. All rights reserved.

Petersham, Massachusetts, is a rural town with a population of about 1,200 people. It abuts the Quabbin Reservoir, which supplies clean drinking water to three million people, and is almost entirely within its watershed. Because of conservation efforts to safeguard the water quality of the Quabbin, the Commonwealth of Massachusetts owns a large, forested portion of Petersham along the Quabbin shoreline. While the Quabbin Reservoir and the state-owned forest buffer, two miles wide in some areas, offer beautiful scenic views, hiking, and mountain biking trails, Petersham has several other conservation lands that offer additional ecosystem benefits and recreational opportunities to the community, region, and state.

Over 70% of land in Petersham is protected from development, either permanently or temporarily through the Chapter 61 program. Mixed hardwood and white pine forests dominate the landscape, while agricultural fields and a few critical wetland and vernal pool habitats are interspersed throughout. Residents value the conservation land in Petersham because it offers scenic views and preserves their rural character, and they also have strong desires to protect the environment and rare species and maintain wildlife corridors. Conservation organizations are very active in the town and in the region and are supported by the community.

This 2024 Open Space and Recreation Plan continues the work of Petersham's 2014 OSRP, weaving in feedback from a town-wide survey conducted in late 2023, as well as two community engagement sessions hosted by a team of graduate students from the Conway School. The vision for Petersham that prevails is one of strong rural character, community and civic engagement, recreation, and a continued appreciation for the open space that Petersham has to offer and its ecological value.

The following four goals summarize Petersham's open space and recreation ambitions:

1. Petersham will retain its beauty, unique sense of place, and rural character by protecting the health and integrity of its natural assets, including but not limited to its air, drinking water, wetlands, soils, scenic views, working farms, fields, and forests, large blocks of connected forestland, and the diversity of its native flora and fauna.
2. Petersham will enhance the quality, variety, and accessibility of its open spaces and recreational offerings for the health, well-being, safety, and enjoyment of all residents and visitors.
3. Petersham will increase climate-resilient land practices and active community stewardship of its open spaces, public byways, and private lands.
4. Petersham will improve communication among Town departments, committees, and residents to increase public awareness about open space access, inclusive cultural and recreational uses, land conservation, and stewardship.

Section 2 Introduction



North Common Meadow. Photo by Wayne Wilkins. Courtesy of The Trustees.

A. Statement of Purpose

In the winter of 2024, a team of graduate students from the Conway School (the Conway Team) was tasked with updating the 2014 Petersham Open Space and Recreation Plan (OSRP). Towns in Massachusetts must update their OSRPs every seven years to remain eligible for grants from the Massachusetts Division of Conservation Services. Since the last OSRP, there has been close cooperation between Petersham's Open Space & Recreation Committee (OSRC) and Conservation Commission (CC) to conserve priority open space and accomplish other goals identified. Below is a summary of progress made on the action items identified in the 2014 OSRP.

Conservation Actions

In 2014 a **LAND grant** conserved **100 acres of the former King property** on South Street abutting the Babbitt Wildlife Sanctuary; the land contains 8 acres of prime agricultural soil.

In 2015 the East Quabbin Land Trust (EQLT) worked with the CC and Selectboard to conserve the **235-acre Gross Farm** on East Street and received a **LAND grant** which made it possible for the town to purchase the CR for the farm. The property borders Moccasin and Cardinal Brooks, with 30 acres of prime agricultural soils, prime forestland soils, and an important wildlife corridor. The property provides protection for a critical watershed of the Quabbin Reservoir. Subsequently, a \$10,000 grant for incidental expenses was awarded to the town by the Quabbin-to-Cardigan Partnership (Q2C).

In 2016 EQLT purchased the **7.2-acre Wilder property** on North Main Street, now called "Seven Acre Preserve," and donated the CR to the town's CC. Management of the land is focused on small-scale vegetable farming by growers from World Farmers and a pollinator meadow established by volunteers in 2019.

In 2016, Mount Grace Land Conservation Trust, through its work with the North Quabbin Regional Landscape Partnership and the federally funded Quabbin-to-Wachusett Forest Legacy Program, conserved the **104-acre Feldman property in Athol, Petersham, and Phillipston**, the **51-acre Hutchinson property** in Petersham, the **760-acre Chimney Hill Farm (CHF)** in Petersham, which abuts Mass Audubon's Rutland Brook Wildlife Sanctuary (CHF is also protected with a Watershed Preservation Restriction held by the Department of Conservation & Recreation's (DCR) Division of Water Supply Protection), and **Harvard Forest's 646-acre Tom Swamp Research Forest** in Petersham (which is also protected with a Watershed Preservation Restriction held by DCR).

The town does not have the resources to pursue every action item suggested in the last OSRP, but it has continued to work with existing organizations. For example, the town collaborated with the North Quabbin Regional Landscape Partnership, local and statewide land trusts, Harvard Forest, and state agencies to encourage private forest landowners who are not enrolled in Chapter 61 or 61A or have Conservation Restrictions to prepare forest management and stewardship plans.

Recreation Actions

There were also some efforts to connect trails in town. In **2015**, the CC, Harvard Forest, DCR, EQLT, Saint Mary's Monastery and Saint Scholastica Priory collaborated on the **Bob Marshall Trail**. The 2.5 miles long trail is named after the former graduate student at Harvard Forest who studied these woods and was a founding member of The Wilderness Society in 1935. The trail connects Harvard Forest's Gould Woodlot to Tom Swamp by traversing conservation land owned by Saint Mary's Monastery & Saint Scholastica Priory and DCR's Petersham State Forest. In **2024** portions of the trail were relocated to avoid recent logging on the St. Scholastica property and to avoid possible native American artifacts in the Petersham State Forest. In **2016** Harvard Forest installed a **footbridge over Nelson Brook** in the Gould Woodlot, opening access through the northern portion of the trail.



Public Access Area sign, Bob Marshall Trail.

Some volunteer maintenance happened at the Babbitt Wildlife Sanctuary several years ago, but parking and trail construction have not been addressed. At the Davenport Property, the CC is currently tackling work on the Davenport Pond Dam and discussing improving the entrance, parking area, and trails. Equestrian use at the Davenport Property has since been discouraged due to wetlands and wetland trail crossings on the property.

Residents still say they would like places to swim in town and because of the last OSRP the OSRC explored a swimming option in Athol at the 500-acre Morgan Memorial Goodwill

Industries' Fresh Air Camp Site (Mount Grace has conserved 330 acres of the site), but it wasn't pursued. The OSRC also explored a swimming option at Brown's Pond in Petersham. While the owners allowed swimming in the pond many years ago, safety and other concerns have disinclined the current owners to allow it now. Devoted residents monitor and maintain Harvard Pond for safe skating each winter, temperature and weather permitting.

In 2018 members of the OSRC purchased with town funds **bocce sets, cornhole, and ping-pong tables** and offered lawn games on the town Common. The ping-pong tables were moved to Town Hall for use by the Council on Aging who purchased additional paddles and balls. Currently, ping-pong happens every Wednesday afternoon. **In 2019** the OSRC bought **three pickleball nets and equipment**. Pickleball is set up every Friday evening in the gym at the Petersham Center School for public use.

Planning, Policy, & Programming Actions

Currently the CC is discussing developing a local wetlands bylaw. The town is also continuing to certify vernal pools in Petersham through the Massachusetts Natural Heritage and Endangered Species Program so that they may be protected by state regulations. There are 14 certified vernal pools in town. **In 2017** one vernal pool was certified on the Selden property. **In 2018** a pair of vernal pools were certified at the Federated Women's Club State Forest.

Petersham has continued to prepare and adopt a set of guidelines for the future management and maintenance of town historic scenic roads that addresses issues such as the paving of roads; the planting, thinning, and pruning of street trees; and the placement of utility poles.

Lastly, the CC and Harvard Forest's Schoolyard Ecology Program have ensured the continuation of the environmental education program at the Petersham Center School.

B. Planning Process and Public Participation

The Town of Petersham received a Planning Assistance Grant in the amount of \$20,000 from the MA Executive Office of Energy and Environmental Affairs to draft a new Open Space and Recreation Plan. The Town used the grant funds to contract with the Conway School to draft the plan.

The plan has been created in collaboration with Petersham's Open Space and Recreation Committee (OSRC), its Core Planning Team (Core Team), and interested Petersham residents. The OSRC and Core Team working with the Conway students included Anne Cavanaugh (Chair); Henry Woolsey, who has lived in Petersham for thirty years and formerly managed MassWildlife's Natural Heritage and Endangered Species Program (Conservation Commission; OSRC); Ari Pugliese, former owner of the locally iconic The Country Store (OSRC); Carly Hutchinson, recently returned Petersham native who has conducted research on the impacts of climate change on marginalized communities in Puerto Rico (Zoning Board of Appeals; Cultural Council; OSRC); and Tyson Neukirch, Petersham farm owner and Conway School alum from the Class of 2023 (Tyson is not on the OSRC but was part of the Core Team). The Conway Team graduate students were Gina Quattrochi, Leah Stanton, and Eric Rose.

In the fall of 2023, before Conway students were involved in the project, the OSRC prepared and sent out a town-wide survey about open space and recreation opportunities and goals for the future. Survey questions assessed residents' interest in and reasoning for protection of open space as well as their recreational interests. In a town with a population of 1,194 people in 461 households there were 209 survey response submissions, which is a large response rate.

The townwide survey ran from Monday, October 23, 2023, to Friday, December 1, 2023. The public survey was available online at SurveyMonkey and as printed paper surveys. The online survey was advertised and linked at the town website, in several press releases and articles in the Barre Gazette and the Athol Daily News, in weekly posts at the Petersham Alert Network on Facebook, and in regular email blasts to hundreds of residents. 595 printed surveys were mailed to every residential mailbox and PO Box in town. Additional copies of the printed surveys, along with decorated cardboard deposit boxes, were available at Petersham Memorial Library, Town Hall, Town Business Office, The Country Store, Quabbin Woods Restaurant, and Petersham Package Store. Flyers were posted around town at local churches, civic buildings, local businesses, and the post office. Surveys were distributed during the town's Scarecrow Contest & Halloween on the Common and advertised by a scarecrow made by the OSRC, which was supplied with surveys for residents to take. Surveys were distributed at the town transfer station on a Saturday and news of the survey was spread by word of mouth. Printed surveys were hand delivered to the Petersham Center School to be given to staff and students' parents. In addition, during the drafting phase of the plan, members of the Core Planning Team visited the PCC on a school day to poll every student about their open space and recreation likes and desires (please see Appendix D.)

In January 2024, the Conway Team began work on the project. The Conway Team and Core Team met weekly and planned two community engagement meetings to receive further feedback from residents on their goals and desires for the updated OSRP. The first meeting was held at Town Hall and had 70 attendees in person and 11 by Zoom. The second meeting was held in the Center School and had around 30 attendees in person and 6 on Zoom. Both meetings were held on Saturday afternoons. The meetings were advertised through Petersham's robust Facebook network, press releases in the Barre Gazette and Athol Daily News, emails, the town website, and fliers posted around town.

The first meeting asked attendees to divide into small groups and discuss their concerns and desires regarding conservation and recreation. The second meeting included several activity stations and aimed to elicit feedback related to trail access and connectivity, open space and recreation goals, a shared vision statement, ideal forms of development, and desired recreation activities. After the meetings, the Conway Team carried out the research and writing of the report with the support of the Core Team, Conway faculty, and interviews with relevant stakeholders and Petersham residents. Results from the meetings can be found in Appendix C.

Section 3 Community Setting



Apple Howling event, Town Common.

A. Regional Context

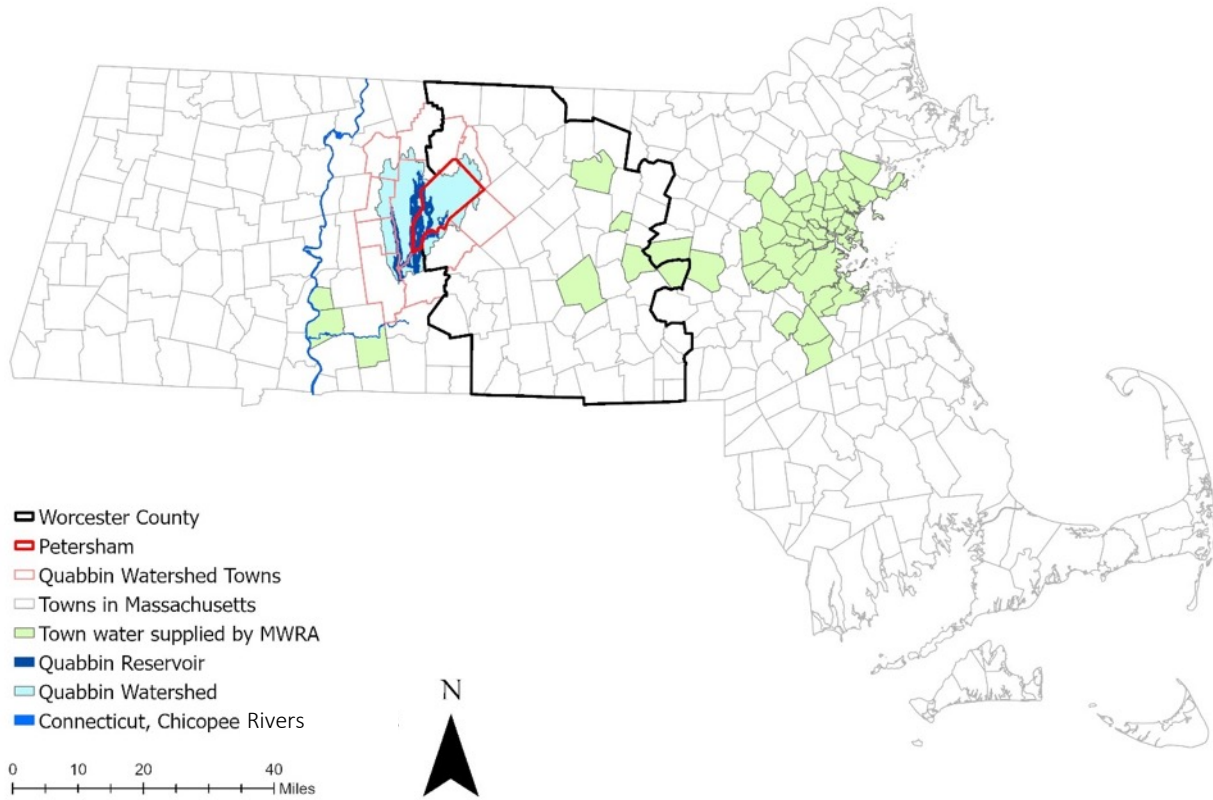
Petersham is a proudly rural community abutting the eastern portion of the Quabbin Reservoir in north-central Massachusetts. The town is almost entirely within the Quabbin Reservoir Watershed. Water tends to move southwest to the Quabbin, then down the Swift River to the Chicopee River and then to the Connecticut River. Just a small area near the town's northern corner drains to the Miller's River, which bypasses the Quabbin on its way to its confluence with the Connecticut River, well north of where the Chicopee River meets the Connecticut.

The physical characteristics of Petersham are in keeping with those of its immediate neighbors, and many other towns in Massachusetts. The rolling hills are mostly covered by forest cut through with streams and punctuated by scattered wetlands. The elevation ranges from 476 to 1,365 feet above sea level, with an average of 823 feet above sea level (Topographic Maps). The town center is located on a ridge in the center and the lowest elevations are to the west, near the Quabbin.

What truly sets Petersham and its immediate neighbors apart from the rest of the state is their relationship to the Quabbin. The Quabbin Reservoir, through the Massachusetts Water Resource Authority, supplies water to over 3 million people in the greater Boston area. Chicopee, South Hadley Fire District #1, and Wilbraham, all southwest of the Quabbin, all receive Quabbin water via the Chicopee Valley Aqueduct (Mass.gov DCR Watershed Plans; see Regional Context Map 3-1: MWRA Water Service). The protection of this watershed is of great importance because it directly affects the quality of drinking water for so many people. Consequently, the Massachusetts Department of Conservation and Recreation owns and regulates a great deal of the land throughout the watershed. Other state and non-state agencies are also involved in protecting this critical resource for the sake of core habitat preservation as well as safe-guarding one of the largest unfiltered drinking water sources in the United States. Because of these efforts Petersham and its neighbors are part of a massive stretch of relatively intact forest that reaches from Massachusetts into the mountains of Vermont and New Hampshire.

Petersham, by area, is the third largest town in Massachusetts (MassGIS Data: 2020 U.S. Census Towns). Of Petersham's 43,675 acres (68.2 square miles) over 70% are in some form of conservation protection; of the 54.9 square miles of land (35,123 acres) in Petersham, the Quabbin itself covering the remaining 8,552 acres (13.4 square miles), 87% (30,414 acres) is forested or shrubland (MassGIS Data: 2016 Land Cover/Land Use). The forest is a major component of Petersham's rural character, visible along most of the roads, which radiate out from the hub of municipal buildings, residences, businesses, and schools that are in the town center. Small, local, and home-based businesses are scattered throughout the town while farmland and residences line the main radials with mainly residences spread along the smaller in-between roads. Conserved land in Petersham concentrates development in certain areas. (See Map 3-2: Land Cover in Petersham, MA 2016).

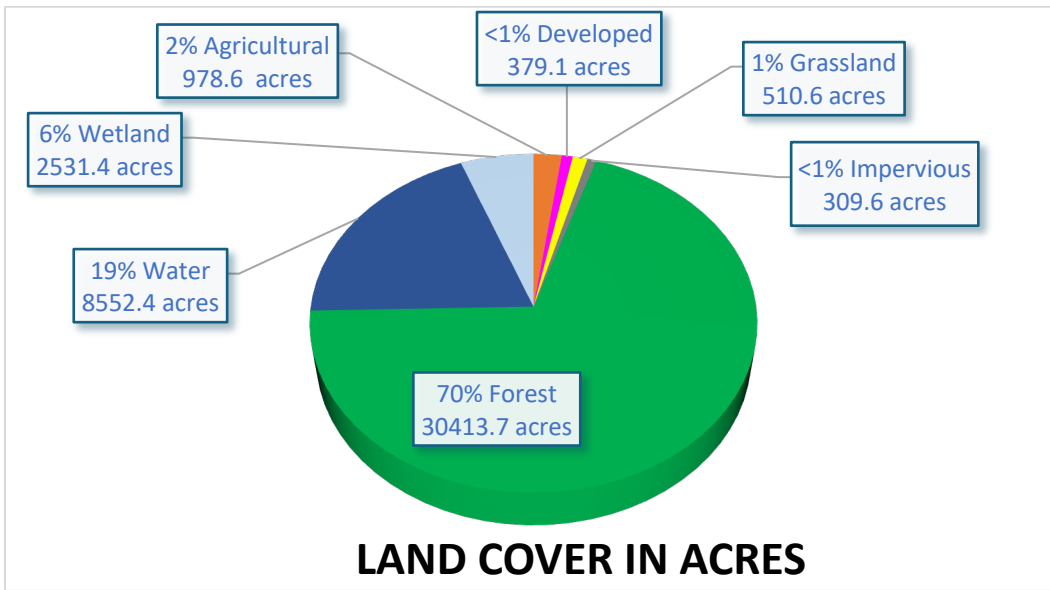
Map 3-1 Regional Context: MWRA Water Service



Regional Context of Petersham

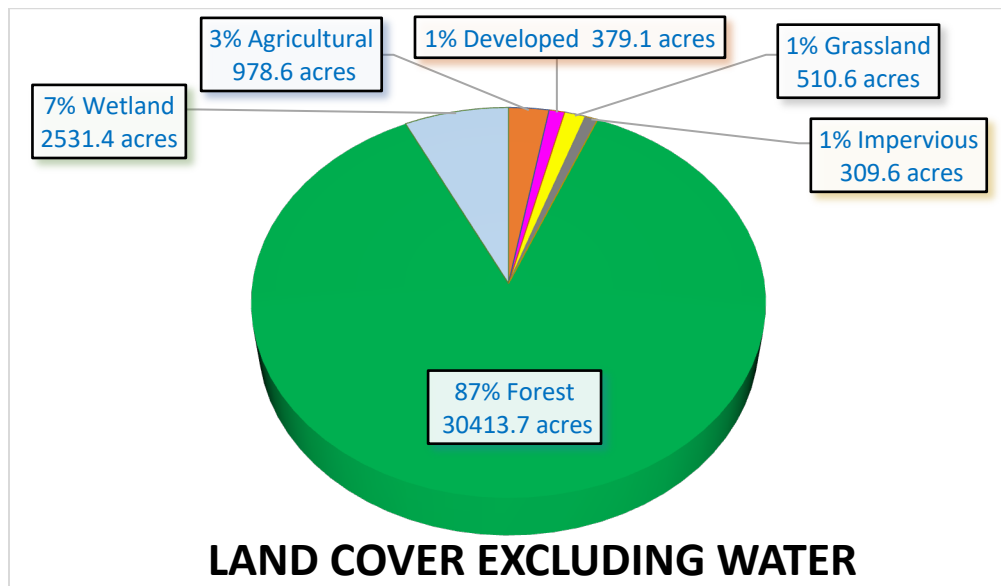
Petersham (red outline) lies almost entirely in the Quabbin Reservoir Watershed (light blue). The Quabbin Reservoir (dark blue within the light blue) supplies drinking water to forty-eight of the most densely populated towns and municipalities in Massachusetts (See Map 3-6: Population Density of Massachusetts Towns). Sources: MassGIS Data: 2020 Census Towns, Counties, MWRA Water/Sewer Service Areas, NRCS HUC Basins (8, 10, 12), MassDEP Hydrography (1:25,000).

Chart 3-1: Petersham 2016 Land Cover, Total Acreage = 43,675 acres

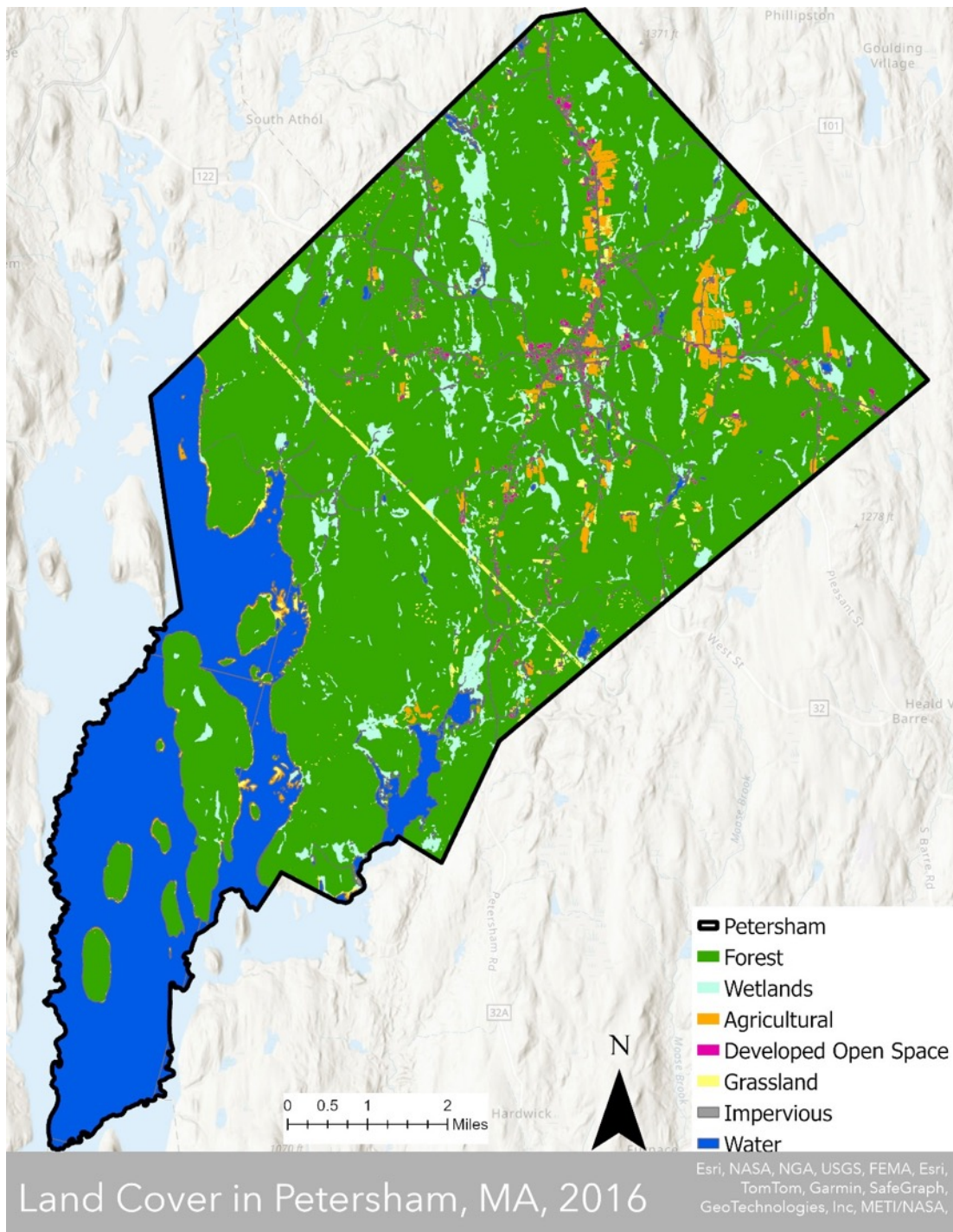


Charts 3-1 and 3-2 summarize land cover data from MassGIS 2016 Land Cover/Land Use. Forest, forested wetlands, and low tree-cover shrublands are grouped together within the forest category. Bare land in Petersham, according to satellite imagery, is most often farm fields and has been grouped with cultivated and pasture/hay as agricultural. Whereas Chart 3-1 considers the coverage in relation to the entire town, Chart 3-2 considers coverage of just the land mass of Petersham (See Map 3-2: Land Cover in Petersham, MA 2016).

Chart 3-2 Petersham 2016 Land Cover, Excluding Water, Total Acreage = 35,123 acres



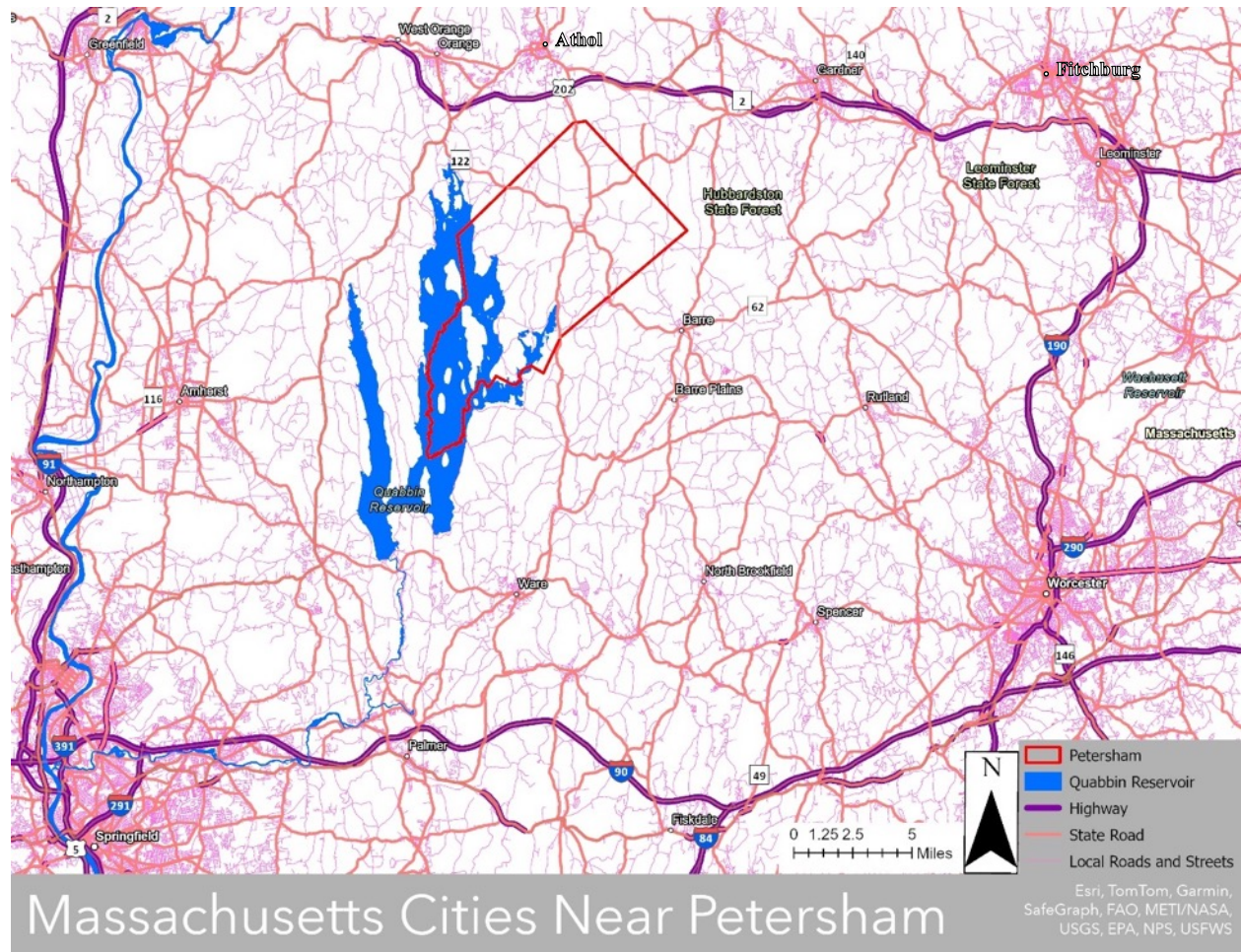
Map 3-2: Land Cover in Petersham, MA 2016



Forest, forested wetland, and low tree-cover-like shrublands are categorized as forest. Bare land, according to satellite imagery, is most often farm fields and has been grouped with cultivated and pasture/hay as agricultural. Nearly a fifth of Petersham is covered by water and nearly 90% of the remainder has tree cover. This provides a remarkable amount of open space in Petersham. The straight yellow line that runs northwest to southeast is the grasslands resulting from a utility right-of-way. Pockets of orange along the Quabbin are exposed shoreline. Sources MassGIS: 2020 U.S. Census Towns, 2016 Land Cover/Land Use.

State Routes 32, 32A, and 122 pass through the town center and connect Petersham to larger population centers such as Ware, Barre, Orange, and Athol, all within a half-hour drive of the town center. State Route 101 extends from Route 32 just north of the town center to nearby Gardner, about a twenty-minute drive. Many residents drive to these nearby communities for groceries, gas, and work. Orange, Athol, and Gardner lie on State Route 2 which runs west-east from North Adams, MA, near the New York border, to Boston (See Map 3-3: Massachusetts Cities Near Petersham).

Map 3-3: Massachusetts Cities Near Petersham



Sources: MassGIS Census Towns, MassGIS-MassDOT Roads, 2020 Census TIGER Roads, MassDEP Hydrography (1:25,000)

While Petersham itself lacks some of the conveniences and necessities of a larger population center such as a large-scale grocery store, movie theater, or gas station, these amenities exist in the neighboring communities. But Petersham has for a long time had a small restaurant, Quabbin Woods, and The Country Store which opened in the 1850s was revitalized. Owned by East Quabbin Land Trust and protected in perpetuity as a country store since 2013, The Country Store has plenty of grocery items on the shelves for town residents as well as recreational bicyclists and hikers visiting Petersham. The Petersham Memorial Library hosts movie nights while other town organizations host seasonal events. From spring to fall, residents enjoy a Friday Market

with live music on the open green of the Town Common. Hiking, walking, biking, birdwatching, gardening, boating, cross-country skiing, lawn games, fishing, hunting, and skating are all popular recreational activities in Petersham. The abundant natural resources and recreational opportunities are attractions for people living outside of Petersham as well.

The most popular recreational activities are walking and hiking on the town’s scenic roads and trails. Route 122 is one of fourteen Massachusetts Scenic Byways, a designation reserved for roads with scenic, historic, or cultural importance. But many Petersham roads feature the type of historic homes, stone walls, cemeteries, pastureland, and forest which make Route 122 so special. There are trails at Harvard Forest, Petersham Town Forest, Petersham State Forest, Brooks Woodland Preserve, Federated Women’s Club State Forest, Swift River Reservation, to name a few. Much of the land these trails are on is conserved open space held or managed by state, non-profit land trusts, and other entities dedicated to protecting the region’s natural ecosystems. These entities include some of the biggest landholders in the town.

Table 3-1: Largest Landholders in Petersham

Owner	Acreage	% Total Area	% Land Area
Commonwealth of Massachusetts	21,870	50%	62%
President & Fellows of Harvard College	3,232	7%	9%
Trustees of Reservations	1,165	3%	3%
Cardinal Brook Trust	842	2%	2%
Mass Audubon Society, Inc.	805	2%	2%
Chimney Hill Farm, LLC	678	2%	2%
Maniha, John K. & Maniha Barbara B.	533	1%	2%
Town of Petersham	505	1%	1%
Total Area of Petersham: 43,673			
Total Land Area of Petersham: 35,123			

Source: MassGIS Data: Property Tax Parcels

The town of Petersham lies within a large network of conserved land and habitat corridors in the northeastern United States. Many organizations work collectively and separately towards protecting the open spaces of this network, including Massachusetts Department of Conservation and Recreation, Massachusetts Department of Fish and Wildlife, United States Forest Service, Harvard Forest, East Quabbin Land Trust, Mass Audubon, Mount Grace Land Conservation Trust, and the Trustees of Reservations. All have vested interests in managing and stewarding the land for the well-being of the land, water, plants, animals, people, and ecosystems that they all share.

B. History of the Community

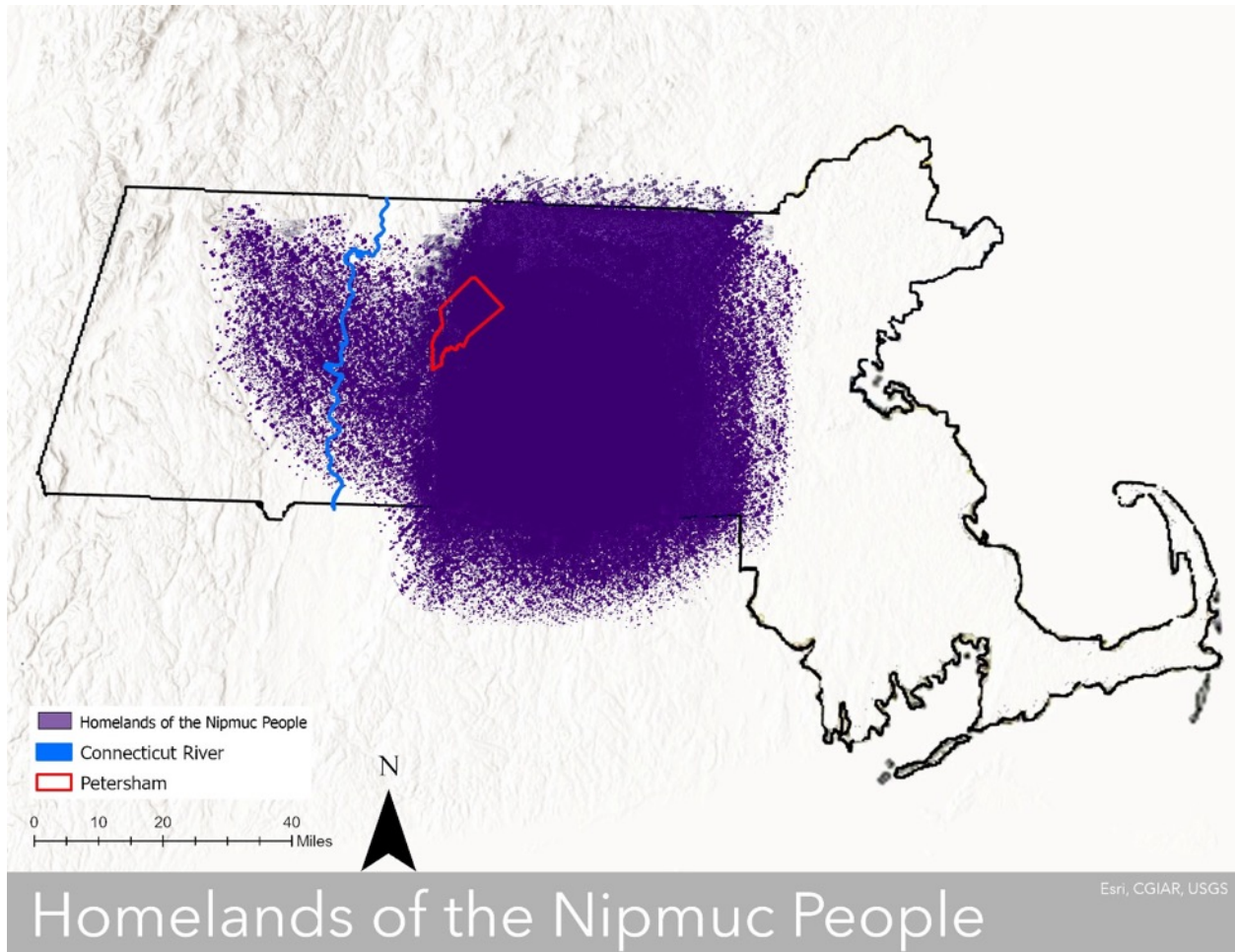
Before the Quabbin Reservoir or the community of Petersham were created, the lands that they now occupy were the homeland of the Nipmuc or Fresh Water people. Historically and still today the Nipmuc people are represented by several bands including Hassanamisco and Chaubunagungamag who possess deep and historical cultural and kinship ties. The Nipmuc people moved seasonally between homeplaces hunting, gathering, and actively practicing forms of agriculture connected to seasonal cycles. They, as with most northeastern woodland tribal nations, were highly engaged in a symbiotic relationship with the land that sustained them (History — Hassanamisco Indian Museum).

As Europeans arrived in the Americas, they brought a variety of diseases new to Indigenous peoples. Those diseases spread through the native population even faster than the Europeans traversed the lands. It is possible that as much as 95% of the indigenous population died as a result (Ehrenpreis and Ehrenpreis). There were an estimated 5,000 to 6,000 Nipmuc people left alive as the Europeans invaded their homelands (Holley).

The history that follows draws from the 2014 OSRP which in turn “paraphrased from the 1952 study entitled *Planning One Town: Petersham – A Hill Town in Massachusetts*, with more recent history gleaned from various local sources,” Petersham Historical Society’s *Petersham, Massachusetts: A Concise Timeline*, and Mabel Cook Coolidge’s *The History of Petersham, Massachusetts*.

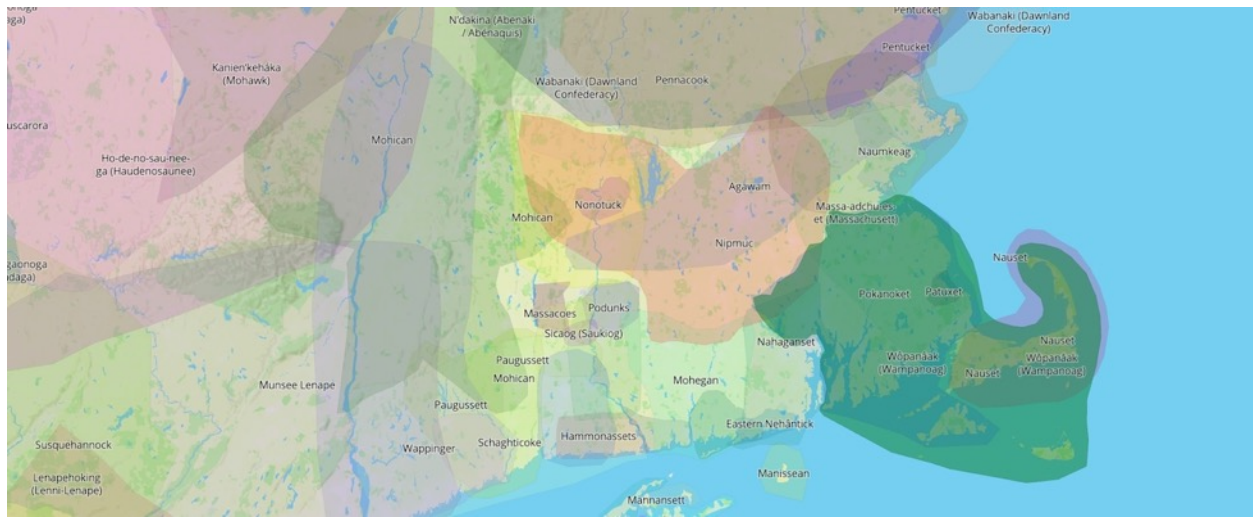
The Massachusetts General Court in 1733 granted land to former soldiers as recompense for engaging in Lovewell’s War, a genocidal campaign against the native population wherein “the General Court of Massachusetts offered a bounty of one-hundred pounds, for every Indian Scalp which should be brought in” (Coolidge 23). The land they were granted included Nichewaog, a homeplace of the Nipmuc people. The colonizers established a central village high on the ridge and it was initially known as the Settlement at Nichewaog, appropriating the Nipmuc name. Coolidge reports “the supposition” that the Nipmuc people lived in areas of lower elevation with the two groups coexisting “in harmony” (Coolidge 22). The addition of ten men to the settlement garrison at “Nichiwoag [sic]” indicates that relations were not harmonious (Lord). The payment of even more scalp bounties into the 1750s is even further evidence of the bloody violence directed towards Indigenous peoples (Bounty Teachers Guide). The Settlement at Nichewaog, combined with other land grants rewarding the pursuit of scalp bounties to other campaigners, was eventually incorporated as the Town of Petersham.

Map 3-4: Homelands of the Nipmuc People



Homelands of the Nipmuc People was created using other maps, listed in Section 11, delineating Nipmuc territory prior to colonization. Purple coloring was added to an outline of Massachusetts wherever a map indicated the presence of the Nipmuc so that where the maps coincided is colored solidly and where the maps did not coincide there is a spattering of color. One flaw inherent in the process is that some of these maps may have been source material for the others. The intent is to acknowledge the presence of the Nipmuc in all these places because municipal and state borders are a colonial imposition and because the territory shifted over time, especially as colonizers pushed Native peoples from their homelands. Sources: MassGIS Census Towns, MassDEP Hydrography (1:25,000)

Map 3-5: Indigenous Territories Map



Indigenous Territories Map. Native Land Digital, Native-Land.ca.

European-style agriculture was slow to develop in Petersham because there was better farmland in the Connecticut River valley and elsewhere. Nonetheless, 80% of the town's land was in agricultural use by the middle of the nineteenth century, meaning that most of the forest cover had been removed. In its place were grazing lands, small saw- and gristmills, and other small-scale cottage industries. But the railroad never came to Petersham, skirting it on all sides. Consequently, Petersham's industries became less competitive and dwindled. People began leaving to find work elsewhere, so that a peak population of 1,775 people in 1840 dropped to a low of 642 in 1920. Much of the farmland reverted to forest and the artifacts of the colonial settlers can be found throughout the town in the form of walls, cemeteries, foundations, and cellar holes. But the railroads were close enough that Petersham was accessible to the wealthier residents of Boston and other cities. They began to establish summer homes in the cooler countryside to escape the heat islands of the time. The Nichewaug Inn was an iconic stop for summer visits to Petersham.

Meanwhile, nearby towns Athol and Gardner, on the railroad line, began to develop as industrial hubs, providing jobs to nearby communities, including Petersham. Whereas Petersham, Athol, and Gardner each had a population between 1,000 and 2,000 people in 1840, by 1940 Petersham had just 923 residents compared to 11,180 in Athol and 20,206 in Gardner. Some Petersham families continued to farm, supplementing their income with jobs in places like Athol and Gardner. Some urban families moved into Petersham farmhouses that were being abandoned. By the early 1900s, a new demographic had begun to appear in the shrinking community—the urban-employed. The automobile accelerated the trend and began the age of the commuter.

A new era for Petersham began in 1930 when the construction of the Winsor Dam and Goodnough Dike, both along the Swift River, commenced. Four towns—Dana, Enfield, Greenwich, and Prescott—were in the path of the planned reservoir so they were disincorporated and absorbed by the surrounding towns. The process displaced 1,500 people. The completion of both Dike and Dam in 1939 ushered in the existence of the reservoir as the Swift River slowly filled the valley it had once freely flowed through. Most of Dana, about 10,000 wooded acres

now owned by DCR and managed by the Office of Watershed Management, was annexed to Petersham. Even more agricultural land succeeded to forest. Scenic Route 122 around the Quabbin Reservoir saw its first use in 1937.

The number of summer residents declined rapidly in the middle of the twentieth century prompting the *Planning One Town* report of 1952 to declare that “Petersham summer houses on the market are selling at depression-prices if at all.” The Sisters of Maria Assumpta converted the iconic Nichewaug Inn into the Academy of Maria Assumpta, a high school for girls in 1951 but it closed in 1972. The former Nichewaug Inn then changed ownership but remained unused. The Town acquired the property in 2007 and later commissioned the *Nichewaug Inn Market and Feasibility Analysis* for housing on the site. All buildings except for a brick garage were demolished in 2022 and the 6.6-acre site is now mainly turf. The site’s future use is a topic of frequent discussion.



An abandoned cellar hole surrounded by woods.

C. Population Characteristics

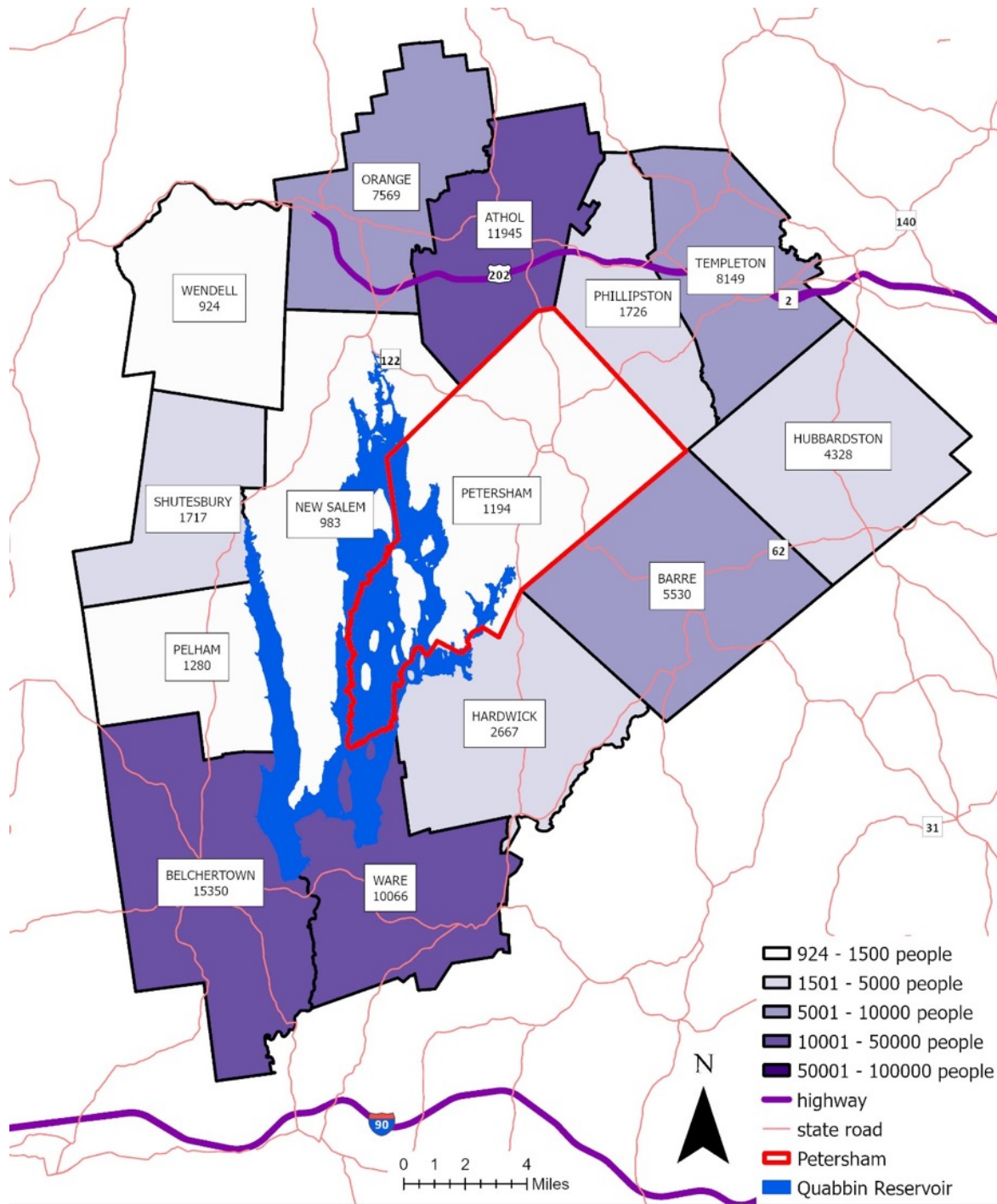
Petersham’s 2020 population of 1,194 is well below its 1840 peak of 1,775 and well above its 1920 low of 642 (U.S Census Data, Coolidge). The peak and low figures are pre-Quabbin, when Petersham was about 10,000 acres smaller. While Petersham’s population has increased by nearly 18% over the last fifty years, it has done so at an average rate of less than 1% per year. At no point since 1970 did the ten-year population-change exceed a rate of 5%, and between 2010 and 2020 it decreased by 3%. The accompanying table shows populations for towns within the Quabbin watershed or within four miles of Petersham. Although many of them have experienced dips throughout the last fifty years there is no clear pattern. It remains to be seen whether Petersham’s population will increase or decrease in the future. If these trends continue, however, the rate of change is likely to be small and there is not likely to be a shift in open space or recreation needs. Subsection D explores variables that may significantly increase development pressure and increase the town population.

Table 3-2: Populations of Towns near Petersham—See Map 3-5

Town	1960	1970	1980	1990	2000	2010	2020
Wendell	292	405	694	899	986	848	924
New Salem	397	474	688	802	929	990	983
Petersham	890	1,014	1,024	1,131	1,180	1,234	1,194
Pelham	805	937	1,112	1,373	1,403	1,321	1,280
Shutesbury	265	489	1,049	1,561	1,810	1,771	1,717
Phillipston	695	872	953	1,485	1,621	1,682	1,726
Hardwick	2,340	2,379	2,272	2,385	2,622	2,990	2,667
Hubbardston	1,217	1,437	1,797	2,797	3,909	4,382	4,328
Barre	3,479	3,825	4,102	4,546	5,113	5,398	5,530
Orange	6,154	6,104	6,844	7,312	7,518	7,839	7,569
Templeton	5,371	5,863	6,070	6,438	6,799	8,013	8,149
Ware	7,517	8,187	8,953	9,808	9,707	9,872	10,066
Athol	11,637	11,185	10,634	11,451	11,299	11,584	11,945
Belchertown	5,186	5,936	8,339	10,579	12,968	14,649	15,350

Source: MassGIS Data 2020 U.S. Census Towns

Map 3-6: Populations of Towns near Petersham, 2020

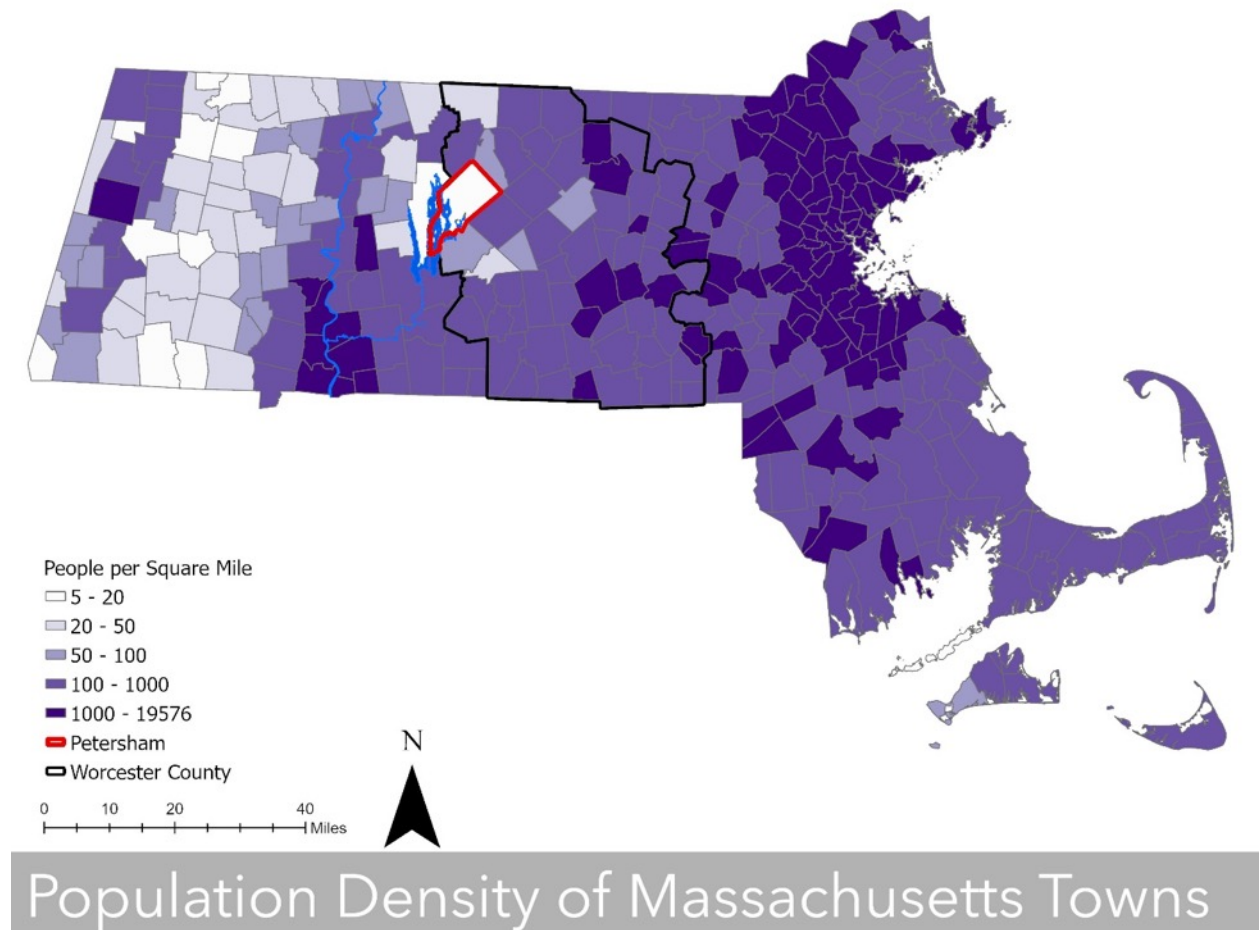


Populations of Towns near Petersham, 2020

Petersham is one of Massachusetts’ largest towns by area and has one of the lowest populations in the state. Populations of nearby towns vary significantly, making direct comparisons between neighboring towns more difficult. Sources: MassGIS Census Towns, MassGIS-MassDOT Roads, 2020 Census TIGER Roads, MassDEP Hydrography (1:25,000)

Only thirty-two Massachusetts towns have smaller populations than Petersham, yet it has the third largest area in the state. Only seven other towns have a less dense population, and it has the same density as neighboring New Salem (See Map 3-7: Massachusetts Population Density). Over half (\$2,263,256) of the Town’s Fiscal-Year-2022 General Fund Revenues was derived from property taxes (FY22 Town of Petersham Annual Reports, 41). Just over five-hundred thousand dollars (12%) of town revenue came from state PILOT (Payment-In-Lieu-Of-Taxes) payments. The state owns 21,870 acres of Petersham’s 43,675 acres, which is almost exactly half of the surface area of Petersham (MassGIS Data: Property Tax Parcels). Over 70% of Petersham is under some form of conservation protection and is either exempt from property taxes or has reduced rates. The implication is that a relatively small population is responsible for providing services over a large area with a reduced tax base. But the presence of conserved land affords residents the potential of recreational access, a high degree of protection for ecosystems, and a reduced maintenance burden since much of the conserved land does not require the same level of infrastructure as developed areas do.

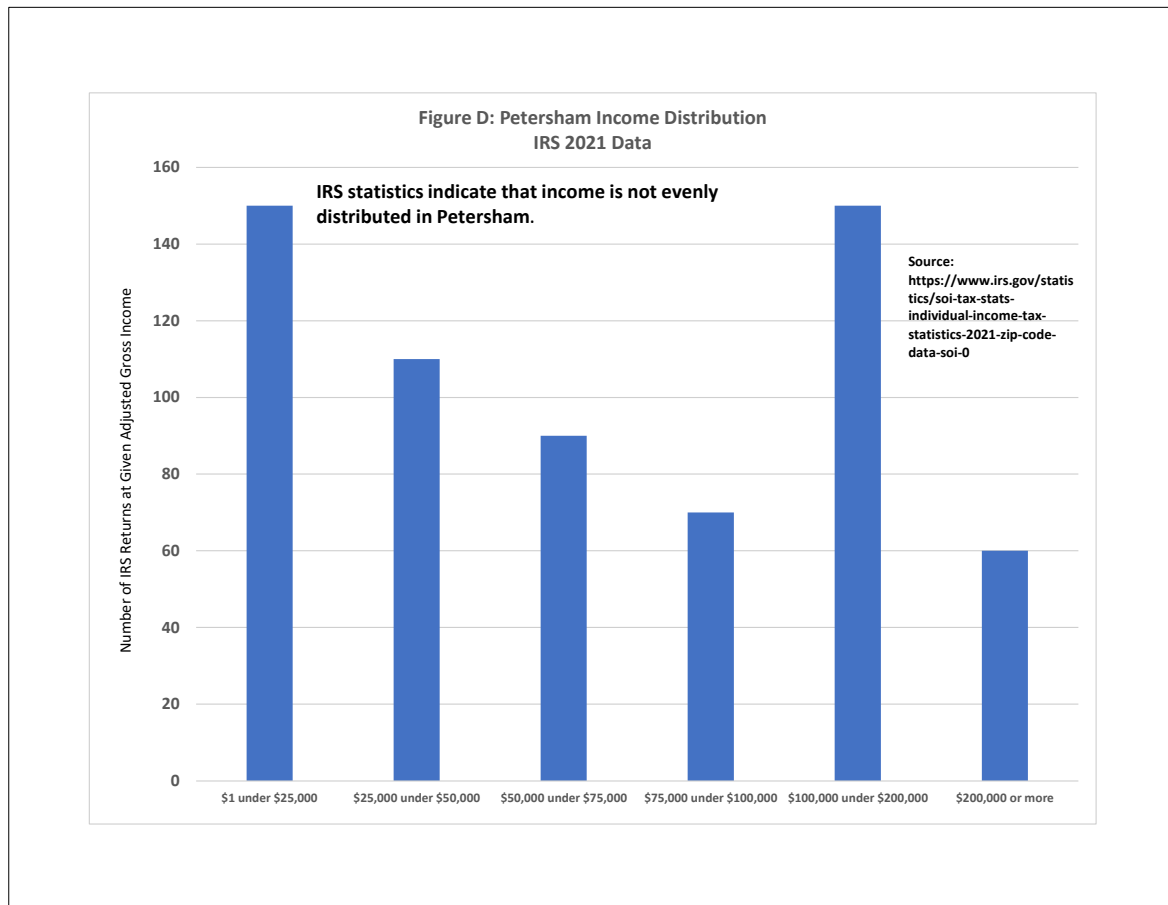
Map 3-7: Population Density of Massachusetts Towns



Petersham’s population density is among the lowest in the state. This is partly the result of major transportation routes bypassing it and conservation efforts around the Quabbin Reservoir. Sources: MassGIS Census Towns, MassGIS Counties, MassDEP Hydrography (1:25,000)

Petersham has no industries per se. The very small non-residential tax base has declined over the years. There are a few commercial businesses such as The Country Store, two restaurants, Clamber Hill and Quabbin Woods, a liquor store, and an auto repair shop, for example. There are at-home businesses, and there has likely been an increase in remote work because of the pandemic and the town’s investment in a broadband network. There are employment opportunities in neighboring communities and further out, including Worcester and as far as Boston. Employment statistics indicate a labor force of 680 and an unemployment rate of 4.7% as of December 2023 (Mass.gov Labor Market Information). Petersham has a median household income of \$76,328 and a per capita income of \$44,519. (ACS 2022-5 Year). In its *June 2024 Report for the Special and Town Meetings* the Petersham Advisory Finance Committee (AFC) provided a bar graph that illustrated the bimodal income distribution in town based on IRS 2021 Data (Table 3-3). This data helped guide the AFC's recommendation in making its fiscal year 2025 budget as affordable as possible for all Petersham's residents.

Table 3-3: Petersham Income Distribution IRS 2021 Data



Source: <https://www.irs.gov/statistics/soi-tax-stats-individual-income-tax-statistics-2021-zip-code-data-soi-0>

The poverty rate in Petersham is 6.5%. That compares to 10.4% in Massachusetts and 10.6% in Worcester. With a majority white population and no concentrated areas of inequity, Petersham has no designated Environmental Justice population. Despite this, and a relatively low poverty rate, there are nonetheless over seventy people living below the poverty line. In 2023, that means

an individual living on less than \$15,000 per year or a family of three on less than \$25,000 per year (HHS Poverty Guidelines).

As of 2020, the percentage of Petersham residents over 65 is higher than that of many of its comparably sized neighbors, and substantially higher than that of the state or Worcester County. A relatively low percentage of those individuals are living alone, though. As evidenced by the percentage of individuals over 16 years old, Petersham has a smaller percentage of young people than the state or county, but a higher percentage than some comparably sized neighboring towns. Individuals under 16 or over 65 account for 42% of the population, which is about the same as the portion of residents not in the labor force. The younger and elder populations may have more time for recreation when school is not in session (for the young) or during retirement (for the older people). Individuals in these two age groups might have a greater need for recreational opportunities. The aging population may have greater accessibility needs and they may shift from participating in active recreation to more passive activities (U.S. Census Bureau).

Chart 3-3: Age Demographics in 2020

	MA	Worcester County	Petersham, Worcester County		New Salem	Shutesbury	Pelham	Hardwick	Phillipston
Total population	7,029,917	862,111	1,194	1,194	983	1,717	1,280	2,667	1,726
Demographic	%	%	%	#	%	%	%	%	%
Selected Age Categories									
16+	83.0%	81.9%	84.3%	854	86.9%	85.4%	86.6%	83.7%	83.0%
18+	80.6%	79.3%	82.3%	825	83.9%	82.6%	84.6%	81.0%	80.1%
21+	76.2%	74.9%	80.2%	794	80.8%	80.6%	81.6%	77.6%	77.1%
62+	21.4%	20.4%	31.9%	324	33.0%	29.3%	34.1%	26.8%	23.1%
65+	17.5%	16.4%	26.0%	240	24.4%	23.9%	28.9%	21.1%	17.3%
HOUSEHOLDS BY TYPE									
Total households	100.0%	100.0%	100.0%	427	100.0%	100.0%	100.0%	100.0%	100.0%
Living alone	16.4%	14.6%	10.6%	63	14.8%	12.4%	12.3%	13.6%	9.3%
65+ Living Alone	8.3%	7.4%	6.9%	32	7.5%	7.9%	7.9%	9.2%	4.7%
Households with individuals <18	28.0%	29.9%	23.2%	88	20.6%	26.1%	24.4%	25.7%	30.0%
Households with individuals 65+	32.0%	30.4%	48.4%	179	41.9%	42.4%	48.9%	36.4%	34.7%

Chart 3-3 compares Petersham’s demographic percentages to those of neighbors with similar population sizes, as well as the state and Worcester County. Source: U.S. Census Bureau

D. Growth and Development Patterns

Petersham is a quintessential New England village. It began on land wrested by settlers from the Nipmuc, growing into a small-town center with spired churches, an open-floored town hall, a country store, a library, a town common, and large historic homes. Half of the homes in town were built before 1939 (U.S. Census Bureau), with many in the center of town being older yet. Most of the countryside was denuded of vegetation for the timber industry, sheep and cattle grazing, and growing crops in the late eighteenth- and early nineteenth-centuries. Transportation shifted to new avenues like canals and barges as the nineteenth century progressed, increasing access for more metropolitan areas to cheaper goods from other parts of the country. Clear-cutting stalled logging by the 1850s. Petersham, without access to these new means of transportation, became a less profitable place to make a living through agriculture or forestry or the mills that processed the products for these industries. As many people began to work outside Petersham or leave entirely, the forests outside of the town center began to grow back, swallowing stone walls, buildings and other artifacts of the larger Petersham community. Petersham's agriculture did persevere, albeit on a smaller scale, where there was better soil and proximity to roads. Abandonment of the other agricultural lands in the early to middle of the 1800s allowed forests to re-establish. As the trees returned, so did logging, but at a more measured pace. In the early 1900s Harvard University established Harvard Forest in part as "a demonstration of practical sustained forestry" (History | Harvard Forest).

Agriculture and forestry are still important aspects of Petersham's identity. Pastures, hayfields, and some crop fields line many of the roads leading into the town center. Private forest interests, the state, and Harvard Forest have all taken advantage of the regrown forest as a source of timber. The focus of forest management has been shifting, though, as the importance of forested landscapes have become clearer and more valued in the face of climate change. Harvard Forest and Massachusetts both conduct critical research about how to help forests sequester carbon (New England Forests, Harvard Forest; Managing Forests, Mass.gov). The results are a shift to forest management which prioritizes forests as ecosystems instead of commodities, with less logging.

Infrastructure

Petersham has approximately seventy miles of roads with main routes radiating from the town center and smaller roads and streets connecting them. Some of these roads are unpaved. Roads, or portions of roads, without homes or the need for access to homes are closed for the winter to reduce winter plowing and sand and salt use. This reduces non-point-source pollution and wear-and-tear on the road. Many of the non-state roads are covered under the Town's Scenic Roads By-law aimed at protecting the viewshed, shade trees and stone walls along the roadsides. It does not address the road surface and it has been described by residents as having little by way of enforcement mechanisms. There is neither bus service to Petersham nor public transportation within town. Transportation is primarily by private vehicles and some people use bicycles. There are no bicycle lanes in the town.

Nevertheless, organized bicycle groups frequently use the main highways, especially Routes 32, 32A, and Scenic Byway 122. There are tours on highways surrounding the Quabbin Reservoir. There are no bicycle lanes on these highways and Route 122 has no shoulders. This can present

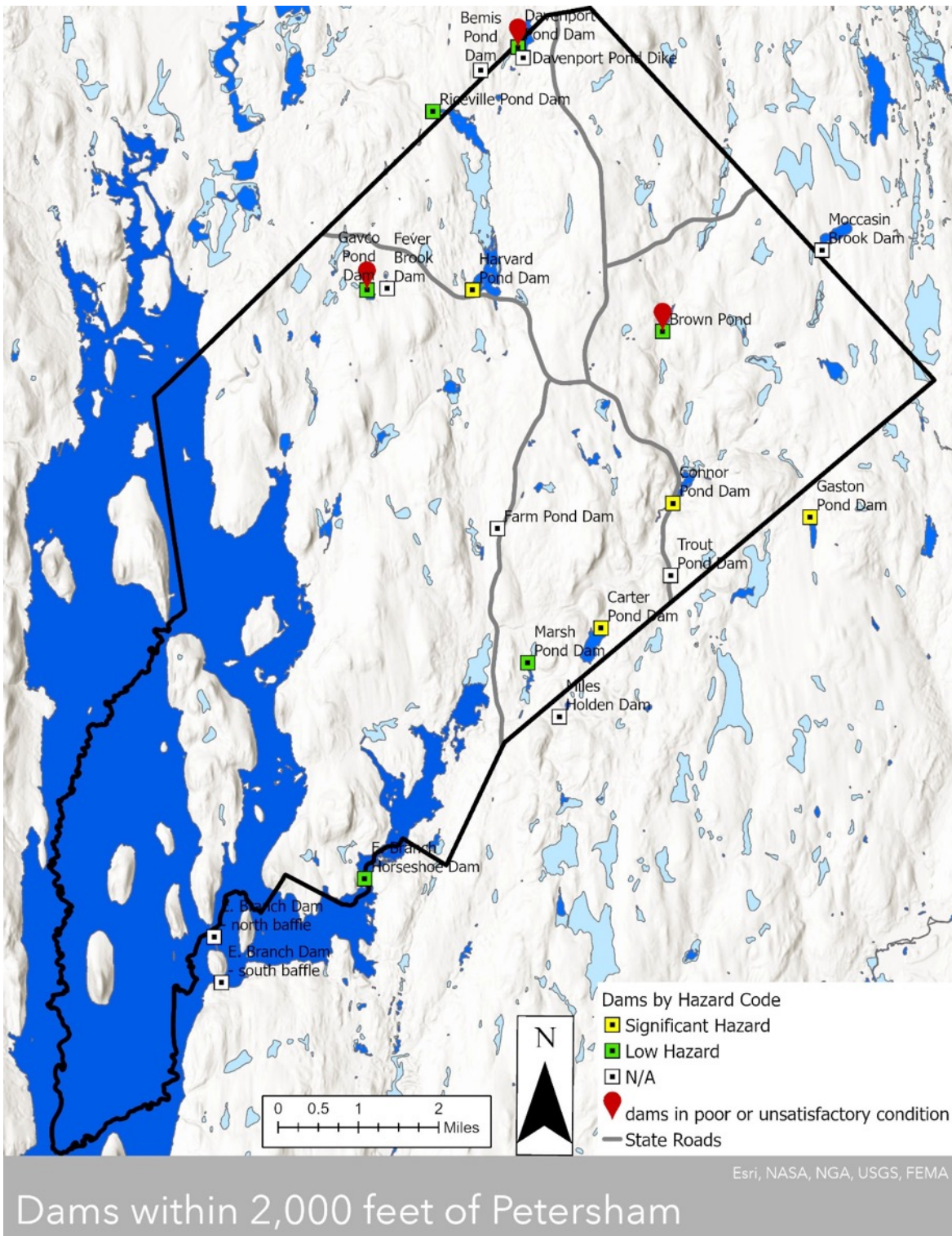
dangerous circumstances when automobiles vie with bikers for space on the roads. Petersham Common has become a destination for bicyclists to rest and enjoy lunch and refreshments at The Country Store.

Universal access sidewalks extend from the Common along Route 32 approximately one-half mile north to the beginning of North Street, and south approximately one-quarter mile to the intersection of Route 122. A sidewalk also extends from the Common along the north side of West Street to the junction of Hardwick Road, approximately one-third mile. Improvements and expansion of sidewalks would provide increased, safer mobility for an ageing population. Petersham does not have municipal water supply or wastewater systems. There are public water supplies in the form of drilled wells at the Petersham Center School and in town at the Town Office Building and Town Hall. All public facilities and private residences have individual wells and septic systems.

There is a stormwater system of just over one hundred catch basins and drop inlets. Some are in the center of town and along Routes 122, 32, and 32A. It is possible that they daylight individually or connect to isolated groups of fewer than five, although that is uncertain. Storm drains are possible sources of non-point-source-pollution in the form of de-icing agents used on the roads as well as other contaminants which might be deposited on the roads by automobiles. These can damage aquatic and non-aquatic habitats as well as interfere with water quality in the Quabbin.

There are twelve dams within Petersham and another seven immediately adjacent. (See Map 3-8: Dams within 2,000 feet of Petersham, MA) Of these, three inside and one just outside of Petersham would pose a significant threat if they were to fail as per their hazard code designation by the Massachusetts Office of Dam Safety (MassGIS Data: Dams). The hazard code represents the potential loss to life and property if the dam were to fail. Dams are categorized as having a High, Significant, or Low Hazard Code. This is not a designation of the dam's structural soundness. The Condition Assessment does represent the structural soundness of the dam. Dam condition is categorized as Satisfactory, Fair, Poor, Unsatisfactory, Not Rated, or Not Available. The Davenport Dam and Brown's Pond Dam are listed as being in poor condition by the National Inventory of Dams. Gavco Dam is listed as being in unsatisfactory condition. Further assessment of these dams is warranted.

Map 3-8: Dams within 2,000 feet of Petersham, MA



Dam locations within Petersham are shown by hazard code, which indicates the threat level if the dam were to fail. Dams in poor or unsatisfactory condition have red pins (See Table 3-4: Dam Hazard and Risk Condition). Sources: MassGIS Census Towns, MassDEP Hydrography (1:25,000), Dams

Table 3-4: Dam Hazard Risk and Condition

Dams within Petersham						
Dam Name	Owner	Town	Regulating Authority	Hazard Code	Risk Condition	Last Inspection
Connor Pond Dam	Private	Petersham	ODS	Significant	Fair	3/2/17
Brown Pond	Private	Petersham	ODS	Low	Poor	6/8/09
Carter Pond Dam	Private	Petersham	ODS	Significant	Satisfactory	11/11/17
Harvard Pond Dam	Private	Petersham	ODS	Significant	Fair	12/2/13
Gavco Pond Dam	Dept. of Fish & Game	Petersham	ODS	Low	Unsatisfactory	12/11/09
Farm Pond Dam	Private	Petersham	non/other	N/A		
Trout Pond Dam	Private	Petersham	non/other	N/A		
Davenport Pond Dam	Town of Petersham	Petersham	ODS	Low	Poor	10/8/09
Davenport Pond Dike	Petersham	Petersham	non/other	N/A		
Fever Brook Dam	Private	Petersham	non/other	N/A		
Marsh Pond Dam	Private	Petersham	ODS	Low	Not Listed	Not Listed
E. Branch Horseshoe Dam	DCR	Hardwick	ODS	Low	Fair	8/21/2009
Dams within 2,000 feet of Petersham						
Riceville Pond Dam	DCR	Athol	ODS	Low	Fair	12/7/2010
Gaston Pond Dam	Private	Barre	ODS	Significant	Fair	4/12/218
Miles Holden Dam	Private	Barre	non/other	N/A		
Bemis Pond Dam	Private	Athol	non/other	N/A		
Moccasin Brook Dam	Private	Phillipston	non/other	N/A		
E. Branch Dam - south baffle	DCR	Hardwick	non/other	N/A		
E. Branch Dam - north baffle	DCR	Hardwick	non/other	N/A		

Several dams in Petersham which pose a low risk are in poor or unsatisfactory condition and have not been inspected since 2009. Inspections should occur every decade for Low Hazard dams and every 5 years for dams with Significant hazard potential (Mass.gov Dam Safety). National Inventory of Dams conditions rankings are defined as:

Satisfactory – No existing or potential dam safety deficiencies are recognized.

Fair – No existing dam safety deficiencies are recognized for normal loading conditions. Rare or extreme hydrologic and/or seismic events may result in a dam safety deficiency.

Poor – A dam safety deficiency is recognized for loading conditions which may realistically occur. Remedial action is necessary. Poor may also be used when uncertainties exist as to critical analysis parameters which identify a potential dam safety deficiency. Further investigations and studies are necessary.

Unsatisfactory – A dam safety deficiency is recognized that requires immediate or emergency remedial action for problem resolution.

Not Rated – The dam has not been inspected or has been inspected but, for whatever reason, has not been rated.

Remediated – The number of state-regulated high hazard potential dams that have been remediated (that is construction has been completed) in the calendar year because of hydraulic/ structural deficiencies. (Association of State Dam Safety Officials).

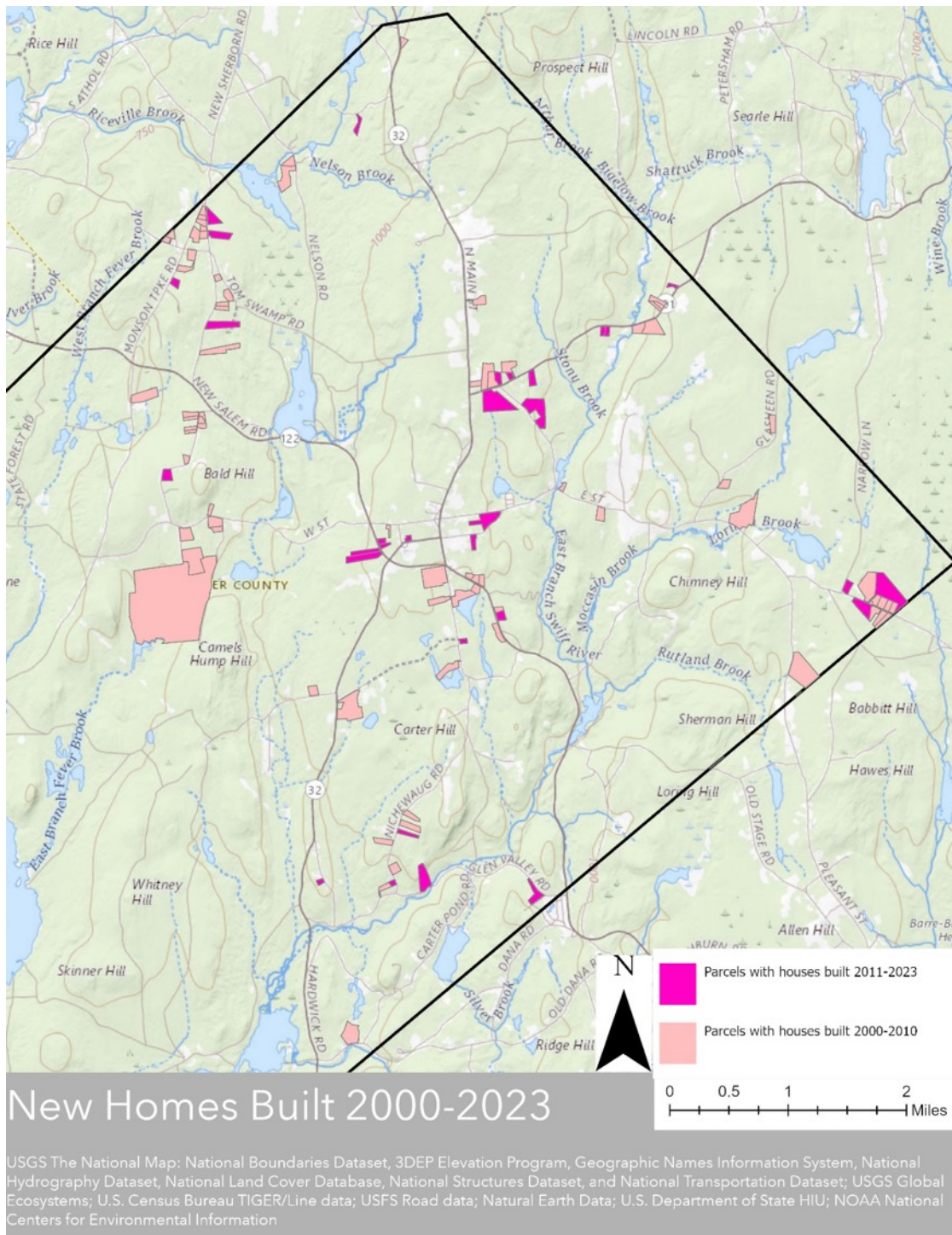
Long-Term Development Patterns

An expanded highway system and faster, safer, more reliable automobiles enabled summer vacationers to travel farther afield and pass by Petersham. But the same transportation changes made commuting easier. Destinations such as Northampton, Springfield, and Worcester are within an hour's drive (See Map 3-3: Massachusetts Cities Near Petersham). Boston is only an hour-and-a-half away. The average travel time to work for Petersham residents in 2022 was 38 minutes with 77% of the workforce driving alone, 9% carpooling, 5% walking, and 9% working at home. (U.S. Census Bureau). The number of people working from home in metropolitan areas nearly tripled during the height of the COVID-19 pandemic (2019-2021) with nearly a quarter (23.7%) of Massachusetts doing so (U.S. Census Bureau). There is a strong possibility that the number of employees who work remotely or work in a hybrid on-site/remote model will increase. Petersham's proximity to metropolitan areas coupled with its rural character and recreational potential may make it very attractive as a place to live, which could increase the potential of development in Petersham. Petersham acquired broadband access in 2021 and as a result it is probable that the number of people working remotely will increase.

There is a long-term likelihood that populations will move inland as sea level rises and coastal habitation becomes more unstable. Nearly a third of the United States population lives in areas subject to associated flooding, shoreline erosion, and storm hazards (Global Center on Adaptation). As frequency and intensity of these conditions increase, people may move to more stable areas inland. Petersham may seem especially attractive to people who have been dealing with saltwater intrusion into freshwater aquifers because of its proximity to freshwater drinking sources, even though Petersham does not currently draw its drinking water from the Quabbin.

Petersham's population increased from 1,194 in 2020 to 1,341 in 2024, an increase of 147 residents or 12% (U.S. Census Bureau, Petersham 2024 Town Census). The number of housing units increased from 474 in 2000 to 558 in 2020, an increase of 84 units or 18% (Petersham Affordable Housing Plan, U.S. Census Bureau). Of those 84 units, 32 were residences built after 2010 (MassGIS Data: Property Tax Parcels) (See Map 3-9: New Homes Built 2000-2023). Petersham has relatively few single-occupant households or second homes in comparison to the state, the county, and its nearby population-peers. However, new development can impact a community's rural character through its impact on the viewshed and presence of open space.

Map 3-9: New Homes Built 2000-2023



There were 78 new houses built between 2000 and 2010, and another 32 built between 2011 and 2023. The slowdown is likely a combination of after-effects of the 2008 housing bubble and recession and the permit restrictions in the 2010s. Construction is generally within the areas of development potential shown by the build out map. (See Map 3-10: Limited Build Out: Main Roads Only.) This is to be expected since so much of Petersham is otherwise conserved. Sources: MassGIS Census Towns, Property Tax Parcels

Table 3-5: Housing in Petersham in 2020

	MA	Worcester County	Petersham		New Salem	Shutesbury	Pelham	Hardwick	Phillipston
			#	%					
Total population #	7,029,917	862,111	1,194	100%	983	1,717	1,280	2,667	1,726
HOUSEHOLD BY TYPE									
Total households #	2,749,225	331,797	479	100.0%	427	724	544	1,107	674
Living alone %	16.4%	14.6%	51 households	10.6%	14.8%	12.4%	12.3%	13.6%	9.3%
HOUSING OCCUPANCY									
Total housing units #	2,998,537	351,764	558 units	100%	460	853	574	1,242	808
Occupied housing units %	91.7%	94.3%	479 units	85.8%	92.8%	84.9%	94.8%	89.1%	83.4%
Vacant housing units %	8.3%	5.7%	79 units	14.2%	7.2%	15.1%	5.2%	10.9%	16.6%
For rent %	1.9%	1.6%	0 units	0.0%	1.3%	1.2%	0.3%	3.0%	0.6%
Rented, not occupied %	0.3%	0.2%	7 units	1.3%	0.0%	0.4%	0.3%	0.5%	0.0%
For sale only %	0.5%	0.6%	8 units	1.4%	0.0%	0.8%	0.7%	1.0%	0.4%
Sold, not occupied %	0.3%	0.3%	9 units	1.6%	1.5%	0.0%	1.0%	0.4%	0.1%
Seasonal, recreational, occasional %	3.6%	1.0%	26 units	4.7%	2.6%	10.6%	0.7%	2.2%	14.1%
All others vacant %	1.7%	2.0%	29 units	5.2%	1.7%	2.2%	2.1%	3.9%	1.4%
HOUSING TENURE									
Occupied housing units #	2,749,225	331,797	479 units	100.0%	427	724	544	1,107	674
Owner-occupied unit %	60.4%	63.8%	414 units	86.4%	88.3%	84.0%	82.0%	70.6%	91.8%
Renter-occupied unit %	39.6%	36.2%	65 units	13.6%	11.7%	16.0%	18.0%	29.4%	8.2%

Source: U.S. Census Data

While the slow-down in housing starts after 2010 may have been influenced by the housing bubble and recession of 2008, it was also impacted by Petersham’s Zoning Bylaws Section 20, which was intended to slow residential growth, defined in Section 20 as “building permits issued for new dwelling units.” Permits for residential units were limited to six per calendar year from 2015 through 2020. According to the Petersham Building Inspector’s Annual Reports, the six-permit-limit was never reached while Section 20 was in effect. This was the case before and during the pandemic, so it is unclear if the pandemic had any effect on the number of building permits. In fiscal year 2020 (July 2020-June 2021) there were only three permits issued. But in fiscal year 2022 there were seventeen building permits issued. While there is some question as to whether these were all for new housing, it is still a marked increase over the prior years. There is a very distinct possibility that there will be more desire for housing development.

Petersham’s Zoning By-Laws, without the permitting limitation of Section 20, will continue to guide that development. The entire town is zoned as a Residential-Agricultural District. One- and two-family dwellings and many agricultural operations are permitted by right. Businesses

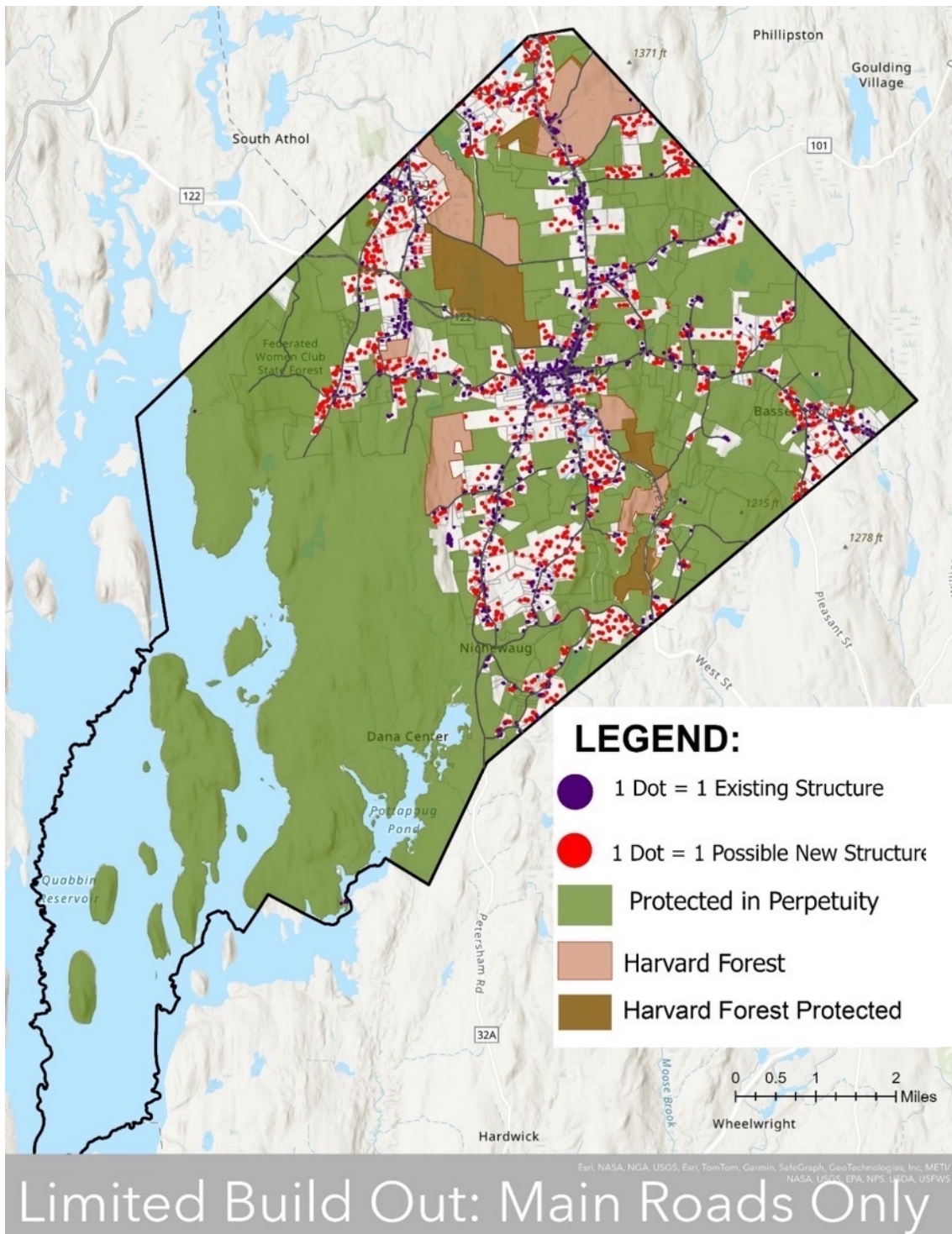
and other uses may be allowed by Special Permit. The minimum lot area for a pre-existing front-lot new residence is one-and-a-half acres with a one-hundred-and-fifty-foot frontage minimum. Back lots are allowed with similar lot size minimums. The goal is to prevent housing from emulating an urban or suburban pattern by keeping the houses apart. In circumstances where the lots already meet the minimum frontage and size requirements, homes built along the road may create a suburban effect when viewed from the road.

Subdivisions are covered by Section 19 of the By-Laws with a stated goal “to preserve the Town’s historic rural landscape and existing pattern of low-density housing,” as well as protect environmentally sensitive areas and foster small-scale agriculture and forestry. Among other restrictions is a requirement that 80% of the total project acreage must be put into some form of conservation. There is a formula for determining the maximum number of lots as well as a mechanism for increasing the maximum number of lots by including deed-restricted Affordable Housing or by conserving adjacent frontage land. The backlot and subdivision rules were all passed in 2014.

The Planning Board adopted its *Rules and Regulations Governing Scenic Roads* in 1977, “for the purpose of providing protection to the environmental, aesthetic and historical values of a town’s roads.” They were intended to safeguard the viewshed, promote tree cover, and require replacement of stone walls along the roads. They do not address the road surface and it has been described by residents as having little by way of enforcement mechanisms.

One means of examining the effects of future development is a build-out map (Map 3-10: Limited Build-Out: Main Roads Only) which shows possible development patterns if development were to occur to the fullest extent of the parameters given. This is a depiction of what hypothetically *could* occur, not a prediction of what *will* occur. Some important provisions accompany such a map. This map removes from consideration for development all permanently protected lands. It shows Harvard Forest as a separate-but-also-removed category because of the extreme unlikelihood of Harvard University abandoning the important ecological and educational work there. The Build-Out Map considers all Chapter 61 land as potentially available for development because Chapter 61 is a temporary protection. It removes from consideration all parcels which do not have the minimum acreage or frontage on major roads or have already been built on. (Due to a quirk in the data layers used to build this map, the build-out only includes major roads, not smaller side streets — i.e., there could be more development on parcels on side roads.) It allows the consideration of just one subdivision into two lots when parcels meet the appropriate zoning requirements. The final result is a randomized placement of potential housing structures on lots where it is permitted by conservation status and basic zoning rules. This is indicative of the general pattern of how and where development might happen but does not give actual structure or parcel locations, nor should it be construed as a recommendation for such. This map does not consider restrictions such as slopes, soil classifications and septic suitability, aquatic (i.e. river, stream, or wetland) protection buffers, the Historic District, the Solar District, scenic roads regulations, lot availability, or any other features which may restrict development. Many of the restrictions not included are merely restrictions and not preclusions: in these cases, development may be extremely unlikely but not impossible. The Build-Out Map may prove most useful when viewed in the context of recent actual development (Map 3-9: New Homes Built 2000-2023) to analyze ongoing trends and potential impacts that existing zoning may have on open space.

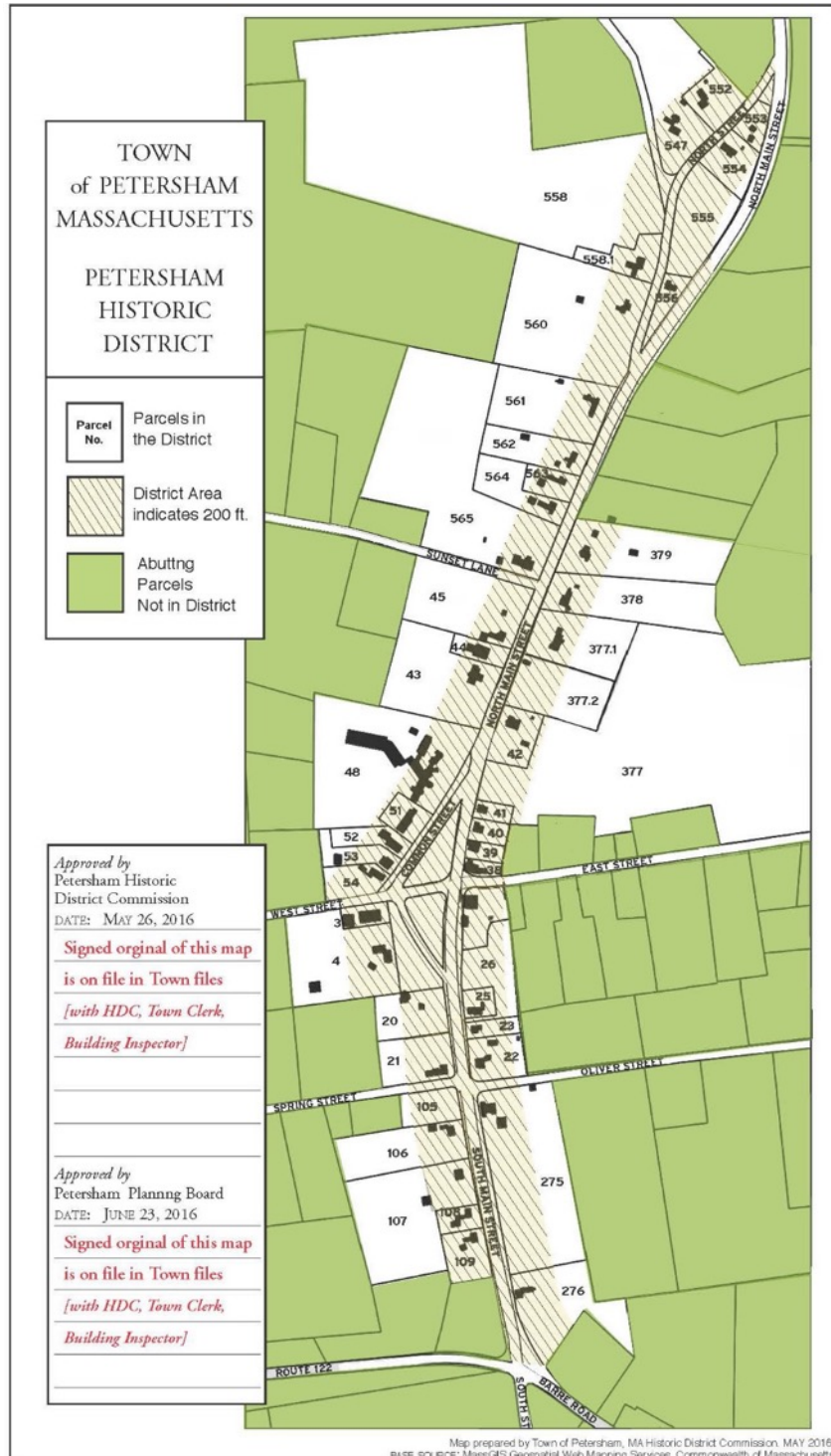
Map 3-10: Limited Build-Out: Main Roads Only



This is a depiction of what hypothetically *could* occur, not a prediction of what *will* occur. It considers zoning requirements but does not include many other factors which could restrict development. This map may prove most useful when viewed in the context of recent actual development to analyze ongoing trends and potential impacts that existing zoning may have on open space (See Map 3-9: New Homes Built 2000-2023). Sources: MassGIS Census Towns, Property Tax Parcels, Protected and Recreational Open Space

The town center is a Historic District. Any new construction, alterations to construction, or demolition must be approved by the Historic District Commission. This provides a check on creating or filling open space, and this approval was necessary for demolition of the former Nichewaug Inn. The Inn is still shown in lot forty-eight but was demolished in 2022.

Map 3-11: Petersham Historic District



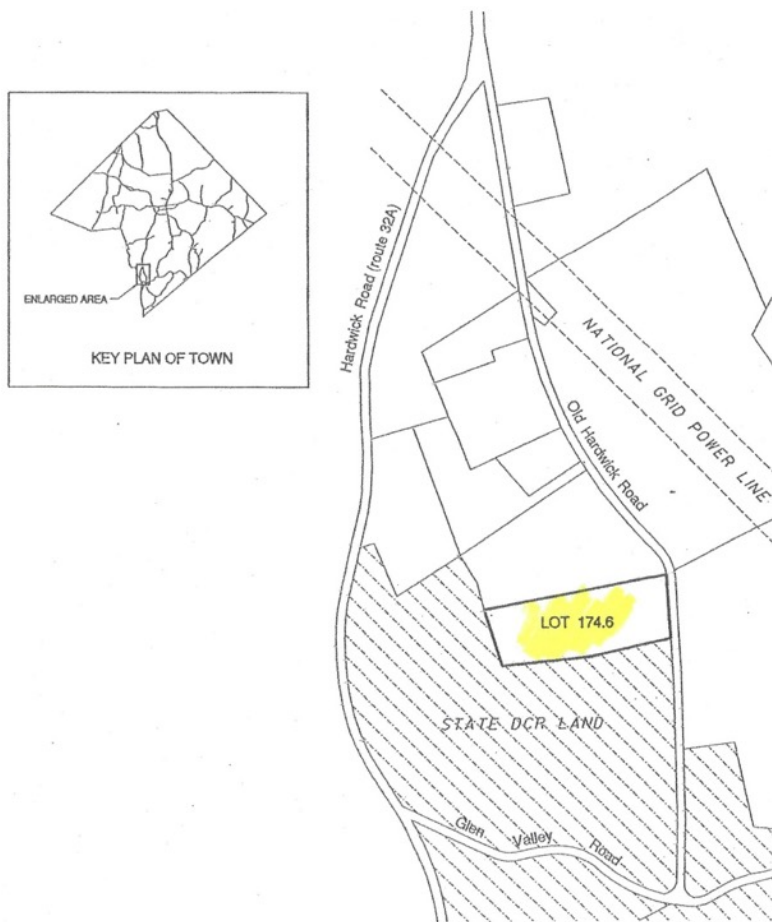
A state-mandated Solar Overlay District includes exactly one parcel (174.6) near the middle of Petersham’s southeast border, between Hardwick Road (Route 32A) and Old Hardwick Road. The parcel is adjacent to state DCR land and located near transmission lines. Building-mounted solar installations are allowed outside of the district with a building permit. Small-scale (10 kilowatts or less) installations are allowed outside of the district if they adhere to regulations laid out in the zoning code, such as adhering to building code and size and siting requirements. Solar installations with a capacity of more than 10 kilowatts are only allowed within the one-parcel district or elsewhere by special permit. While solar arrays can mitigate climate change by shifting energy use patterns from fossil fuels to renewable energy, ground-mounted systems are typically installed on agricultural land, forest land, or some other form of open space. Petersham successfully defended a lawsuit appealing a denial of a special permit for a large-scale solar installation. The defense was based on state guidelines and Zoning By-laws which discourage clearing woodlands for solar projects (Sunpin Energy Services, LLC, et al. v. O’Neil, et al.). Sunpin Energy Services is appealing the decision.

Map 3-12: Solar District

PETERSHAM SOLAR ELECTRIC OVERLAY DISTRICT

LOT 174.6

b5A



Section 4 Environmental Inventory and Analysis



Tom Swamp, Chestnut tree. Courtesy of Harvard Forest.

A. Geology, Soils, and Topography

Petersham can be generally characterized by north-south running ridges and hills, with a general sloping downward as one moves from north to southwest. A central ridge that roughly parallels North Main Street runs from the northern corner of town to the town center. A large stretch of dramatic elevation changes runs northeast to southwest along the Swift River Valley in the southeastern quarter of town. The bedrock underlying the land area of town is largely mafic rock to the east and acidic bedrock types to the west, which is mostly overlain by an unsorted mix of rocky, gravelly, and sandy till that was left behind by glaciers thousands of years ago. While the bedrock determines the overall topography of the landscape, it is this glacial till that shapes most of its soils, and their rocky composition makes them mostly unsuitable for agriculture. However, small pockets of prime agricultural land occur in the center and eastern areas of town.

Topography

Petersham sits towards the center of the hilly, rocky landscape of Central Massachusetts' Worcester Plateau. It consists primarily of rolling hills interspersed with ponds and rivers, most of which are in the Quabbin Reservoir watershed. In general, the terrain slopes downward as one moves from north to south or northeast to southwest, with elevations ranging from about 1,279 feet in the northern corner of the Town to about 574 feet along the Quabbin Reservoir. A central ridge that roughly parallels North Main Street runs from the Athol border south to the town center, and ranges in elevation from more than 1,200 feet at the Athol border to about 1,080 feet at the town common. Most current human settlement and infrastructure is in the uplands along this central ridge.

The southeastern quarter of town features steep terrain with ledges and ravines of the Swift River Valley—the largest tributary of the Quabbin reservoir. A network of ridges with long stretches of 15 to 25% grades runs northeast to southwest roughly parallel to the town's southern boundary line before reaching the lowlands around the Quabbin and what used to be the town center of Dana.

The western portion of Petersham abutting the Quabbin is a couple hundred feet lower in elevation than the northern uplands. Another ridge punctuated by small mountains (Bald Hill, Camel Hump Hill) with peak elevations in the 600- to 800-foot range runs from north to south. Former mountains with similar elevations were transformed into islands and peninsulas with the filling of the reservoir.

Petersham's hilly and rocky landscape has, like much of New England's uplands, reforested since agriculture moved to the fertile west in the late 1800s. Its upland position relative to the Quabbin-flooded valley meant that it was not only spared by the creation of the reservoir, but its boundary was expanded to the southwest across three disincorporated towns, much of which was acquired by the Department of Conservation and Recreation and put into permanent protection from development. The result is a thickly wooded upland landscape that is a hotspot for outdoor recreation, and some of the most intact forest habitat within the state of Massachusetts.

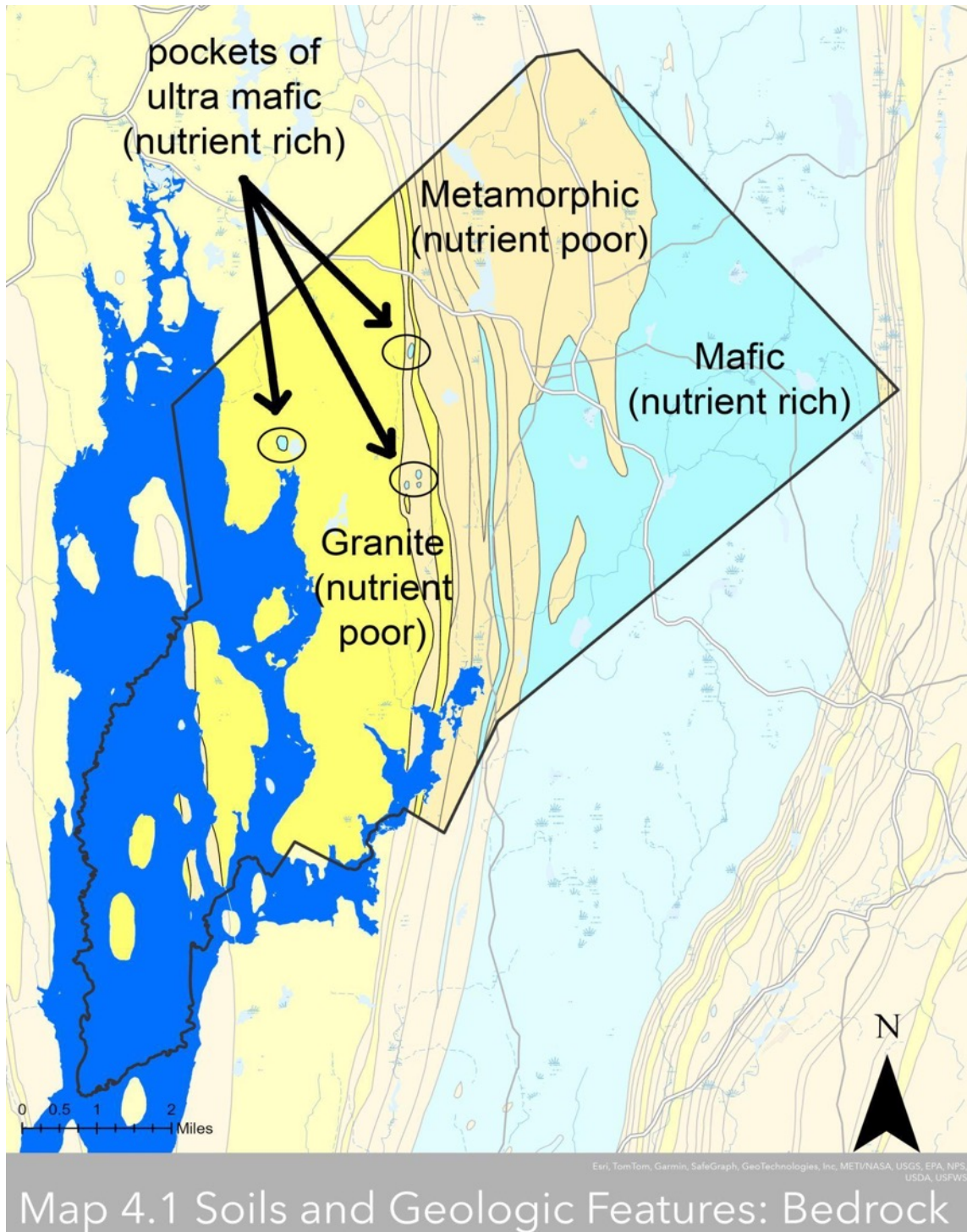
Geology (Bedrock and Surficial Materials)

Underlying the eastern half is mafic rock, which has a higher pH and overall nutrient richness than the western, acidic bedrock found in the western half of town. These acidic bedrocks (granite, sulfidic schists, and pelitic rocks) are typical of Massachusetts uplands, but a few pockets of ultra-mafic bedrock outcroppings contribute greatly to the geologic diversity in town. As bedrock is a major driver of species richness, Petersham's bedrock diversity contributes to its diversity of wildlife and vegetative species. Mafic bedrock in particular tends to support rare and endemic species. Further discussion of bedrock's influence on Petersham's wildlife and vegetation is in Sections 4D and 4E.



Cardinal flowers, Tom Swamp. Courtesy of Harvard Forest.

Map 4-1: Soils and Geologic Features – Bedrock



The eastern half of Petersham’s bedrock is mafic rock (blue) that has a slightly higher pH than the acidic granite and metamorphic schists (yellows) to the west. However, a few pockets of higher pH ultra-mafic bedrock occur within the acidic types. This distribution of different bedrock types is one significant influence of the wildlife and vegetation present in Petersham, as discussed in Sections 4D and E. Data source: Mass GIS Data Layers Bedrock Lithology Poly Group B Detailed, Quabbin Reservoir Bathymetry

Surficial materials are the looser materials that sit on top of bedrock and form the base for the soils seen at the surface. Petersham’s surficial materials are distributed in much the same way as they are in the uplands throughout Massachusetts. Sorted glacial deposits of sands and gravel lie in the lowlands between monadnocks and hills. These sand and gravel deposits are relatively well-sorted (meaning that grain size tends to be relatively consistent) and porous and are the most likely places to find productive groundwater aquifers.

Often found near the sand and gravel deposits are narrow bands of silt-rich alluvial deposits along riparian systems, and pockets of highly organic and mucky swamp deposits. These surficial types often produce hydric soils – soils that transmit groundwater poorly and are where wetlands occur in town. Few structures and roads are built on these deposits in Petersham, as most infrastructure and development has taken place on the upland glacial till soil types as noted above, so septic system failure due to poorly draining muck soils is not a major issue in this community.

However, most of Petersham’s bedrock is largely covered with a layer of unsorted material that glaciers picked up and deposited 10,000 years ago – an acidic, granitic jumble of sand, pebbles, gravel, cobbles, and boulders, with a bit of silt and clay, called glacial till. Glacial till is common in the uplands of Massachusetts, and the effects it has on soils and vegetation are well understood: there are few areas fit for growing crops, makes great forestland, is not a typical source of aquifers, and can often limit the functioning of traditional septic systems via restrictive layers.

Soils: Restrictive Features

Although glacial till makes for sandy soils that drain well at the surface, it can come with a horizontal “restrictive layer” of dense material. So, while the soil texture at the top may be well drained, with a restrictive layer close enough to the surface, even well drained soils can remain wet long after a rain. Petersham’s surficial material and soils match Massachusetts’ upland geologic pattern – 70% of its land area is covered in glacial till, and just over 60% of it pairs well-draining soil texture with a restrictive layer lying within 60” of the soil’s surface, resulting in soils that hold a lot of water.

Figure 4-1

Petersham’s permeable and well-draining soil sits on a restrictive layer that can hold water within reach of vegetation. Some water percolates through to deeper bedrock layers that private wells access.

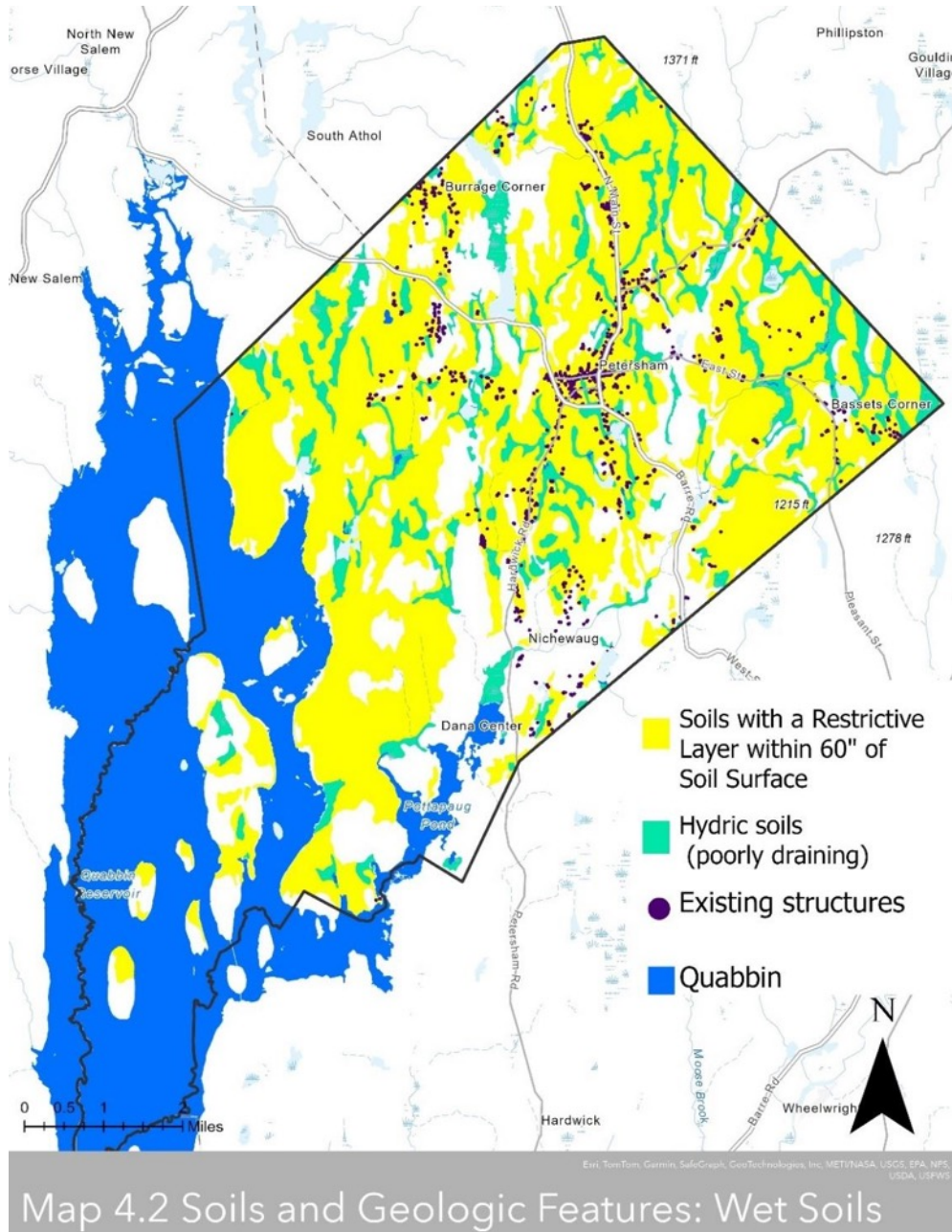


Table 4-1: Soils in Petersham

Soil Group	Dominant Component	% land area (34,688 total acres)	Drainage	Prime Farmland	Restrictive layer within 60" of soil surface
Montauk-Scituate-Canton association, 3 to 15 percent slopes, extremely stony	Montauk	17%	Well drained	Not prime farmland	yes
Woodbridge-Paxton association, 3 to 15 percent slopes, extremely stony	Woodbridge	12%	Moderately well drained	Not prime farmland	yes
Charlton-Chatfield-Hollis association, 15 to 45 percent slopes, very rocky	Charlton	11%	Well drained	Not prime farmland	
Peru-Marlow association, 3 to 15 percent slopes, extremely stony	Peru	10%	Moderately well drained	Not prime farmland	yes
Montauk-Canton association, 15 to 35 percent slopes, extremely stony	Montauk	7%	Well drained	Not prime farmland	yes
Charlton-Paxton association, 15 to 45 percent slopes, extremely stony	Charlton	6%	Well drained	Not prime farmland	
Charlton-Chatfield association, 3 to 15 percent slopes, extremely stony	Charlton	5%	Well drained	Not prime farmland	
Catden and Natchaug mucks, 0 to 2 percent slopes	Catden	4%	Very poorly drained	Not prime farmland	
Ridgebury-Whitman association, 0 to 8 percent slopes, extremely stony	Ridgebury	4%	Poorly drained	Not prime farmland	yes
Other	--	24%	--	--	--

Three of Petersham's four main soil groups feature restrictive layers within 60" of the soil's surface. While technically well-draining because of their texture, these soils may remain wet during seasons with heavy rains because the restrictive layer holds water near the surface. Sources: Mass GIS Data Layer SSURGO-Certified NRCS

Map 4-2: Soils and Geologic Features – Wet Soils



Very little development has occurred on hydric soils (seafoam green), so septic system failure due to poorly draining muck soils is not likely a major concern for this community. However, most of the development is on soils with shallow restrictive layers that can hold water close to the soil surface. In heavy periods of rain these soils may remain saturated long enough to limit the functionality of traditional septic systems and potentially contaminate groundwater. Sources: Mass GIS Data Layers: SSURGO-Certified NRCS, Building Structures (2-D), Quabbin Reservoir Bathymetry

Saturated soils can have implications for a range of modern human activity on the landscape, including compaction, erosion, and effects on crops and vegetation. Furthermore, wet soils may more frequently affect human activity in the coming decades given the region's climate predictions for more severe storms and droughts paired with an overall increase in precipitation.

One side effect of human activity on wet soils is compaction. Heavy machinery such as those used for construction, farming, or forestry operations can compact saturated soils, but even hiking and biking use can damage and erode wet trails, increasing maintenance needs and negatively impacting the health of nearby vegetation via compacted root zones. By elimination of pore spaces between soil particles compaction also negatively impacts the soil's ability to absorb and infiltrate water, thereby increasing ponding, erosion, runoff, sediment and nutrient accumulation in streams, and an overall decrease in water supply to plants (Bryant 2015). Additionally, compaction, soil saturation, and high winds all increase the risk of blowdowns within a forest (Brodbeck and Rowe 2019) as the severity of storms is already increasing due to climate change.

Implications for vegetation are also mixed. In a heavy season of rain, prime agricultural soils with a densic layer could remain too wet for annual crops to grow well, but under drought conditions the densic layer could keep needed water within reach for annual crops and forests. This ready access to water in droughts increases the region's resilience to drought (Cates 2020).

Saturated soils can cause traditional private septic and leach field systems to fail, affecting water quality and contributing pollutants to watershed systems. All of Petersham is on private septic and wells. While there is no current evidence that directly points to septic pollution or widespread septic failure, the combination of individual septic systems on soils with restrictive layers in a region that is likely to see an increase in precipitation over the coming decades could become problematic for the community in the future. Not only the quality of the community's private well water would be affected, but also the Quabbin reservoir could be affected by large-scale septic failure.

While the potential for saturated soils does not rule out the use of traditional septic systems in town, alternative systems designed for saturated soils may be better suited. Another approach many neighborhoods take to protect water quality is to site a shared septic system on the most suitable soils in each area, rather than relying on individually installed systems across soils with varying septic suitability.

Soils: Prime Farmland

Prime agricultural soils in Petersham are concentrated towards the town center along North Main Street (Route 32) and east of town center along East Street. Colonial settlement of the region occurred primarily along these concentrated areas of prime agricultural land, and many of these early structures remain and are inhabited by Petersham residents today.

“Prime farmland is land that has the best combination of physical and chemical characteristics for producing food, feed, forage, fiber, and oilseed crops and that is available for these uses. It has the combination of soil properties, growing season, and moisture supply needed to produce sustained high yields of crops in an economic manner if it is treated and managed according to acceptable farming methods.”

-USDA Natural Resources Conservation Service

Table 4-2: Prime Agricultural Soils in Petersham

Soil Group	Dominant Component	% land area (34,688 acres total)	Drainage	Prime Farmland	Restrictive layer within 60" of soil surface
Marlow fine sandy loam, 3 to 8 percent slopes	Marlow	2	Well drained	All areas are prime farmland	yes
Merrimac fine sandy loam, 3 to 8 percent slopes	Merrimac	1	Somewhat excessively drained	All areas are prime farmland	
Paxton fine sandy loam, 3 to 8 percent slopes	Paxton	0.58	Well drained	All areas are prime farmland	yes
Peru fine sandy loam, 3 to 8 percent slopes	Peru	0.55	Moderately well drained	All areas are prime farmland	yes
Sudbury fine sandy loam, 0 to 3 percent slopes	Sudbury	0.36	Moderately well drained	All areas are prime farmland	
Woodbridge fine sandy loam, 3 to 8 percent slopes	Woodbridge	0.25	Moderately well drained	All areas are prime farmland	yes
Canton fine sandy loam, 3 to 8 percent slopes	Canton	0.04	Well drained	All areas are prime farmland	yes
Merrimac fine sandy loam, 0 to 3 percent slopes	Merrimac	0.001	Somewhat excessively drained	All areas are prime farmland	

Prime agricultural soils cover less than 5% of the town’s total land area. Prime soils are a limited resource that requires protection from development to retain its ability to produce food. Data source: Mass GIS Data Layer SSURGO-Certified NRCS

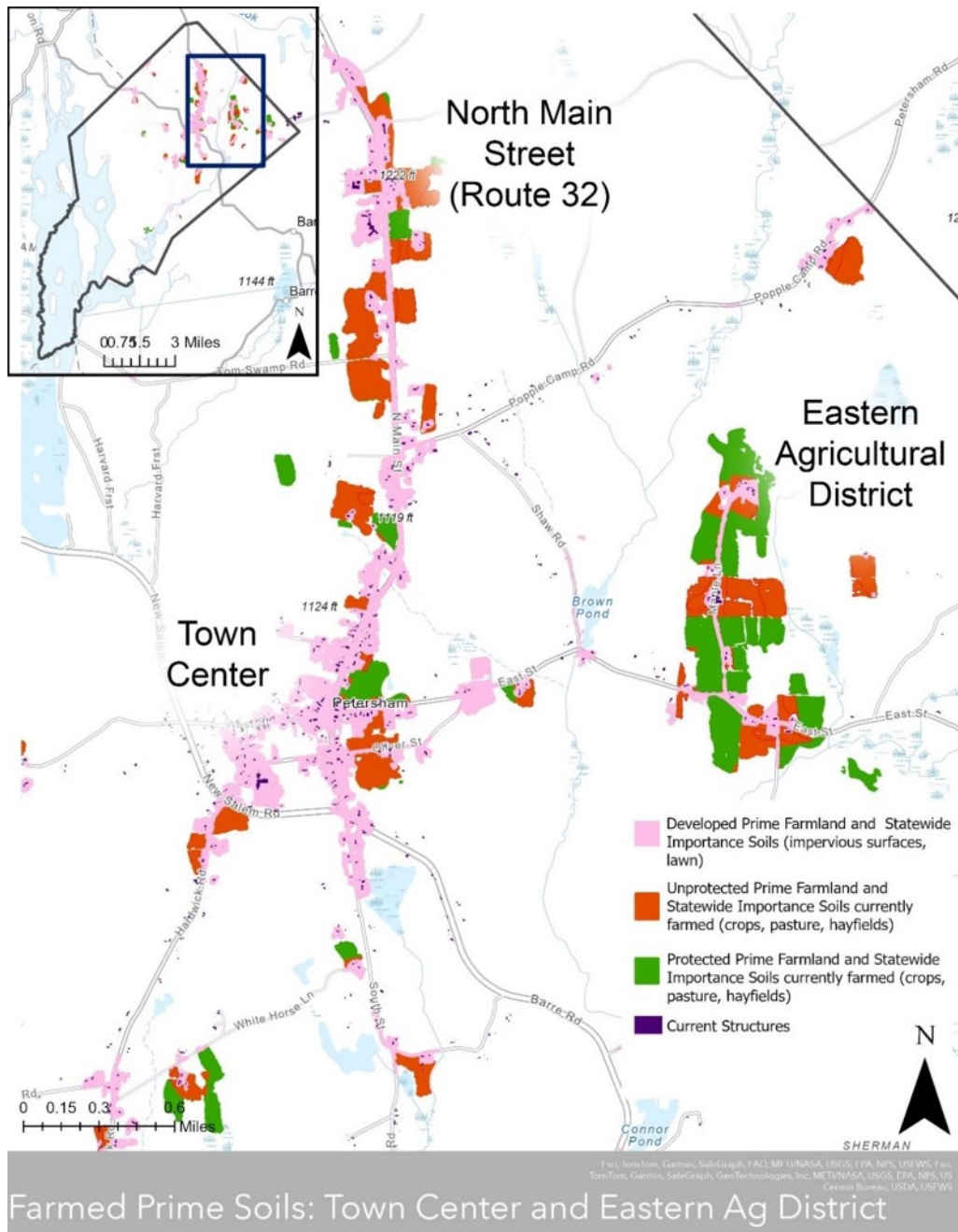
The Petersham community is determined to protect local farming operations, with special emphasis on supporting farms producing food for local residents. However, prime agricultural soils, those that the USDA has identified as best for producing food, make up less than 5% of Petersham’s area. A significant portion of the prime agricultural soils in the Eastern Agricultural District are in active agricultural use and are under permanent protection from development, which goes a long way to ensure this precious resource is available for generations to come. A minority is under temporary protection of Chapter 61 enrollment, and an even smaller group has no protection.

However, the Prime Agricultural Soils and Soils of Statewide importance along the adjacent southern half of North Main Street (Route 32) in the town center are some of the most heavily developed lands in town (see Map 4-3). Because of the concentration of development, these prime soils may not be best suited for large-scale agricultural operations, but some areas may be suitable for small-scale food production by homeowners. However, the soils of developed parcels have been disturbed and potentially degraded enough that they may not be suitable for growing food at all, and potential lead contamination around the many historic structures in town center would be an additional barrier.



Agricultural study, Petersham. Courtesy of Harvard Forest.

Map 4-3: Farmed Prime Soils



Much of the prime and state important agricultural soil within the Eastern Agricultural district is farmed and protected in perpetuity, ensuring that this limited resource so highly valued by the community remains available for generations to come. However, the prime and state important soils that lie in the town center and northwards along North Main Street are the most densely built areas in town. In developed parcels soil has potentially degraded enough that it may not be suitable for farming anymore. Additionally, the remaining prime and statewide important soils that are used for farming in the town center and along North Main Street are unprotected. Data source: Mass GIS Data Layers: SSURGO-Certified NRCS, Building Structures (2-D), Protected and Recreational Open Space

B. Landscape Character

Petersham is distinguished by its vast landscape of forests, which cover almost 90% of the town's land area. Within this forested matrix, the town's fields, water bodies, and wetlands provide visual interest and landscape diversity. For example, farms and open fields are visible from North Main Street, East Street, South Street, and Hardwick Road, and other open lands provide a beautiful perspective on the landscape as one travels through the town. Further south, the land slopes down toward the Quabbin Reservoir. Here, the landscape is virtually entirely wooded, and much of the land is under DCR ownership.

Throughout the town, the sense of historic rural character is reinforced by numerous landscape details: the stone walls that parallel the roads and crisscross the forests, the rows of old sugar maples along a country lane, or the nineteenth-century farmhouse with a stone foundation and lilacs out front.

The fingerprint of human activities can be seen throughout the town if one looks closely but is most apparent in the town center. The Petersham Historic District contains the greatest concentration of historic buildings in the town—some 45 historic buildings, mostly built in the early nineteenth century. As was the case centuries ago, the town center is still the place where residents gather and is still ringed by forests and fields. Residents still shop at the country store and take in the views across the North Common.

Potential Impact of Development on Landscape Character

Development in accordance with current zoning regulations could impact the scenic character of the community. Continued piecemeal single-family home construction along scenic roads outside of the town center will increasingly obstruct views of stone walls, forests, hay and farm fields, and water bodies. Most lots large enough to be subdivided and developed under the current zoning requirements (Zoning Bylaws Section 4: 1.5-acre lots, 150-foot frontage) are along scenic roads (see Maps 3-8 New Homes Built, 3-9 Limited Buildout, and 4-4 Unique and Scenic Resources).

Subdivisions with large lot sizes would also change the scenic character, although these are unlikely to occur because of the strict subdivision zoning bylaws put in place to prevent them (Zoning Bylaws Section 19).

Possible development at the Nichewaug site in the town center could impact the historic character of the area if form is not adequately considered in site planning of projects in the town center. Projects proposed in the Town Center Historic District are subject to review by the Historic District Commission. Petersham's bylaws allow the commission to regulate exteriors that are visible from the road, but the Town may want to explore further measures to guide development appropriately.

Development could also impact access to public open space for recreation use in town. The lots large enough to be subdivided and developed under the current zoning requirements (Zoning Bylaws Section 4: 1.5-acre lots, 150-foot frontage) are generally distributed along scenic roads outside the center of town. Continued piecemeal 1.5-acre lot construction along scenic roads

outside of the town center could reduce access to both official and unofficial public trails that hikers' access along these roads. In addition, the expressed desire of many residents to connect existing trails may become more difficult as more private lots are developed between the protected lands harboring trails. Many Petersham residents and visitors enjoy nature-based recreation activities like bird watching, hunting, and fishing. As more 1.5-acre lots are created along back roads, fragmentation of habitat along roads will further increase, and could have a negative impact on the wildlife populations that these recreational activities depend on.

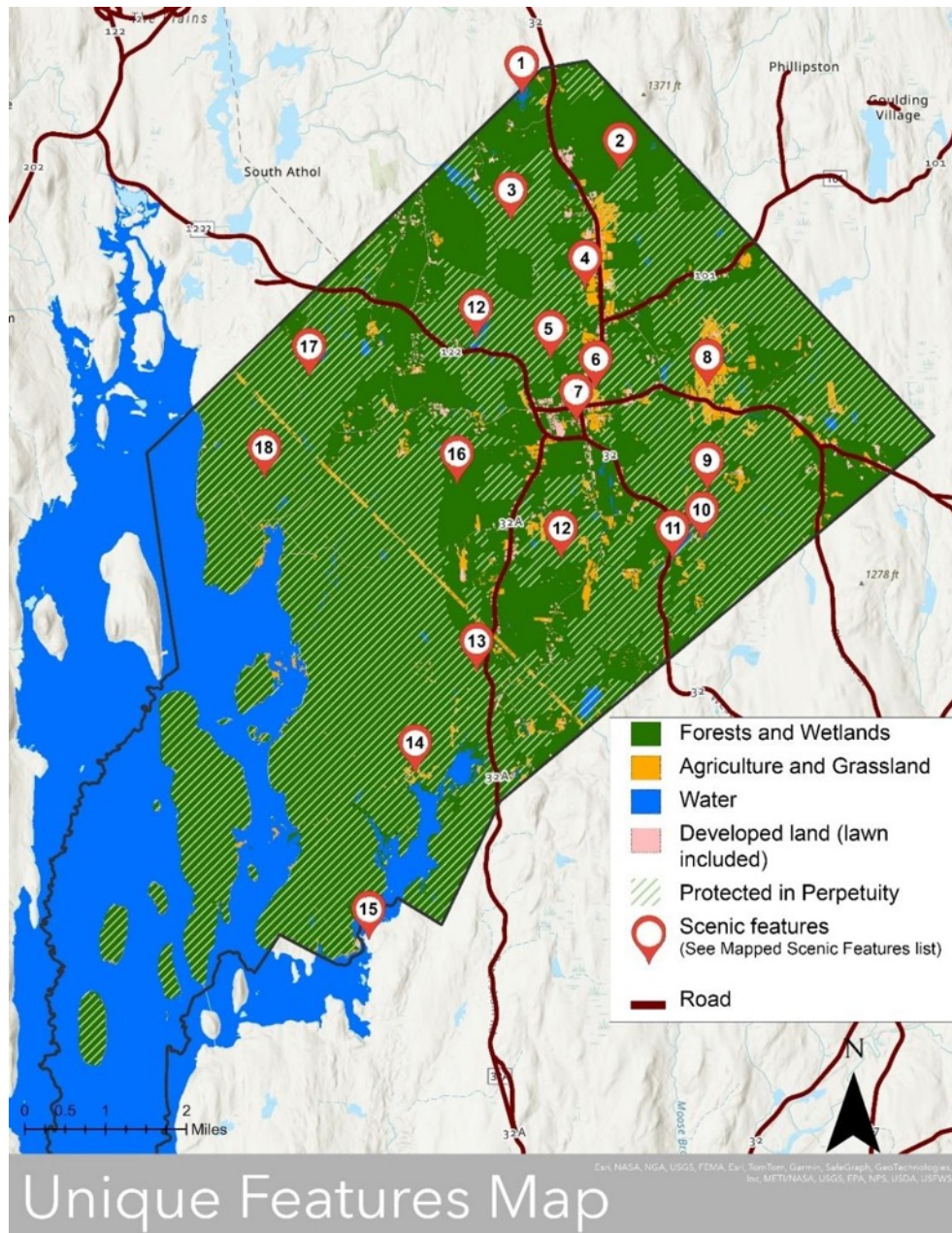
**Mapped Scenic Features in Petersham
(see Unique Features Map on following page)**

1. Davenport Property
2. Harvard Forest
3. Petersham State Forest
4. Agricultural fields along North Main Street (Route 32)
5. Harvard Forest
6. North Common Meadow
7. Petersham Historic District and Country Store
8. Eastern Agricultural District
9. Brooks Woodland Preserve
10. Connor's Pond, Rutland Brook Wildlife Sanctuary, Slab City Tract
11. Swift River Reservation, Slab City Tract
12. Babbitt Wildlife Sanctuary
13. Nichewaug Village,
14. DCR Quabbin Gate 40, Dana Town Common
15. Quabbin Reservoir Fishing Area 3
16. Camel Hump Hill
17. Federated Women's Club State Forest
18. The Gorge Outlook at Soapstone Hill



Young Moose, Slab City Tract. Courtesy of Harvard Forest.

Map 4-4: Unique Features Map



Over 90% of Petersham’s landcover is forested and many main roads are lined with agricultural land. These two characteristics give the main routes in town a notably scenic, wild, and rural feel in addition to the many scenic points of interest lying off the roads. Notably scenic main routes include gently sloped hayfields, croplands, and stone walls along the Eastern Agricultural district (Scenic feature #8) and North Main Street (#4), the forests and wetlands along Route 122 (#12), and the forested slopes on Route 32 heading southward to the Swift River (#11). Although many of the open spaces along these scenic routes are under protection in perpetuity, development in unprotected parcels could significantly impact the town’s beloved rural and scenic character (see Maps 3-8 New Homes Built, 3-9 Limited Buildout). Sources: Mass GIS Data Layer SSURGO-Certified NRCS, Building Structures (2-D), and Protected and Recreational Open Space, Land Cover Land Use (2016), MASSDOT Roads, Quabbin Reservoir Bathymetry

C. Water Resources

Watersheds

Major Basins (Hydrologic Unit Code 8)

Most of Petersham is located within the Chicopee River Subbasin, and a small area in the north is within the Millers River Subbasin. The Chicopee River Subbasin drains more than 720 square miles of central Massachusetts before emptying into the Connecticut River in Chicopee. As such, the Chicopee River Watershed is the largest drainage basin in Massachusetts, the largest tributary to the entire Connecticut River, and includes within its bounds the Quabbin Reservoir. This reservoir was named after the Native American chief “Nani-Quaben,” whose name translates as “place of many waters.” (SWAP).

Watersheds and Sub-watersheds (Hydrologic Unit Codes 10 and 12)

Petersham’s share of the Chicopee River Subbasin is nearly entirely within the Swift River Watershed. This watershed includes three sub-watersheds: the Quabbin Reservoir-east part to tip of Prescott Peninsula to the west (West Branch of Fever Brook), the East Branch Fever Brook in the middle, and in the east the East Branch Swift River-headwaters to the Quabbin Reservoir. As all three sub-watersheds drain directly into the Quabbin Reservoir, these brooks and streams directly impact drinking water quality for 3 million people. As such, much of Petersham’s patterns of development and use and access of open space are shaped by the regulations and policies that protect this water supply.

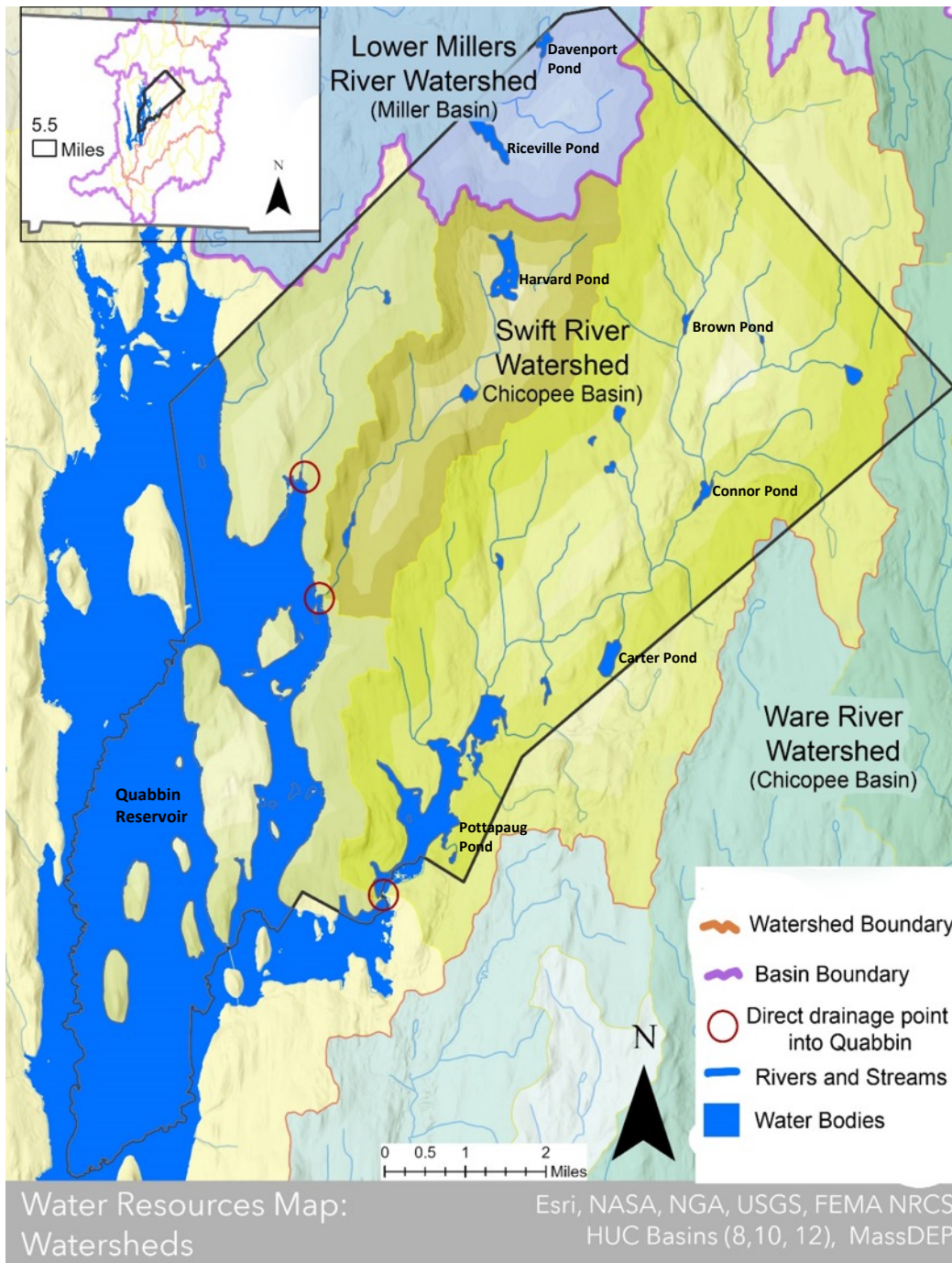
A tiny portion of Petersham is part of the Ware River Watershed at the easternmost corner of town, and a sliver of the southeast-facing boundary line. These watershed areas, like the Miller Basin area to the north, do not drain into the Quabbin and so are not under the same regulations as the Quabbin draining water bodies are.

Table 4-3: Watersheds

Major Basin	Watershed	Sub-Watershed	Quabbin relationship
Miller Basin	Lower Miller’s River	West Brook to Orcutt Brook	Does not drain into Quabbin, directly or indirectly
Chicopee Basin	Swift River	Quabbin Reservoir-east part to tip of Prescott Peninsula	Drains directly into Quabbin
		East Branch Fever Brook	Drains directly into Quabbin
		East Branch Swift River-Headwaters to Quabbin Reservoir	Drains directly into Quabbin
	Ware River	Prince River	Does not drain into Quabbin, directly or indirectly
		Ware River-Barre Falls Dam to Danforth Brook	Does not drain into Quabbin, directly or indirectly

Data sources: Mass GIS Data Layer NRCS HUC 12, 2014 OSRP

Map 4-5: Water Resources Map — Watersheds



Although a small northern corner of the town is part of the Millers Watershed to the northwest, most of Petersham’s watershed drains directly into the Quabbin Reservoir in the southwest and lies within the Chicopee watershed. As all three sub-watersheds drain directly into the Quabbin Reservoir, these brooks and streams directly impact drinking water quality for 3 million people. As such, much of Petersham’s patterns of development and use and public recreational access and use of open space are shaped by the regulations and policies that protect this water supply. Sources: Mass GIS Data Layers NRCS HUC 12, Quabbin Reservoir Bathymetry

Water Protection

The state does not test Petersham's water quality because all its residents are on private well supply, but instead relies on residents to regularly test their own water. However, Petersham's watershed is a major contributor to the Quabbin Reservoir—one of the largest unfiltered water supplies in the United States (DCR Office of Watershed Management) which is monitored by the Massachusetts Surface Water Assessment and Protection program (SWAP). The Quabbin's SWAP report is combined with those of the Ware River and Wachusset Reservoir and was most recently conducted in 2002. So, it is unclear how much Petersham's watershed is contributing to the potential contaminants listed in the report, or how they have changed in the last twenty years. Listed contaminants include microbes from aquatic and non-aquatic wildlife, overuse of fertilizer or pesticides in agriculture, chemical runoff from roads, improper use of pesticides in utility line areas, and private residential land uses such as pollutants from septic systems, lawn care, and household hazardous waste.

The Massachusetts Department of Conservation & Recreation Water Supply Protection Division (DCR DWM) owns and manages a large, protected parcel adjacent to the reservoir to protect the water supply from contamination. The DCR also works with private landowners and local authorities to minimize the risk of watershed contamination elsewhere in town through the placement of watershed protection conservation easements (WPRs), direct purchase of property, assistance with the town's development of bylaws, and educational programs for visitors and residents, among other management strategies (Massachusetts Department of Environmental Protection). The East Quabbin Land Trust and the Mount Grace Land Conservation Trust are also involved in protecting Petersham's watershed resources.

In addition, the state has placed various levels of restrictive regulations on development and recreation within the Quabbin Watershed to limit potential sources of pollution. These regulations are in addition to statewide regulations pertaining to rivers and stream corridors and wetlands (see Sections 4C Surface Waters and 4C Wetlands).

Massachusetts Watershed Protection Act

The Watershed Protection Act (WsPA), otherwise known as the Cohen Act, is administered by the DCR Office of Watershed Management. It regulates land use and activities within the public water supply areas of the Quabbin Reservoir, Ware River, and Wachusett Reservoir watersheds for the purpose of protecting the quality of drinking water (350 MCR 11.04). Residents can use the DCR online viewer to see how these restriction zones intersect with individual parcels (see Figure 4-1).

The WsPA defines two different resource areas, each of which has a different level of protection. DCR has an online viewer of the geographic delineations of these resource areas (see Figure 4-1, also see Figure 4-2 in the 2005 Master Plan). Within the Primary Zone—land within 400 feet of the Quabbin or Wachusett reservoirs or within 200 feet of tributaries and surface waters that drain to these reservoirs—any alteration of land or water resources is prohibited. “Alteration” includes a variety of activities, such as construction, excavation, grading, paving, and dumping. Generation, storage, disposal, or discharge of pollutants is also prohibited in the Primary Zone.

Within the Secondary Zone—between 200 and 400 feet of tributaries and surface waters, on land within floodplains, over some aquifers, and within bordering vegetated wetlands—certain activities are specifically prohibited. These include the storage, disposal, or use of toxic, hazardous, and certain other materials; alteration of bordering vegetated wetlands; and other activities. The density of development in the Secondary Zone is limited by a requirement that no more than 220 gallons per day of wastewater per acre may be discharged by the development. For residential development, this is the equivalent of two bedrooms per acre. In addition, development may not render impervious more than 10% of the lot or 2,500 square feet, whichever is greater.

While these protections appear to be quite strong, the WsPA regulations contain a few key exceptions. The most notable of these is that the owner of any lot pre-existing at the time the regulation was enacted (1992) is generally allowed to build a single dwelling unit on that lot, providing that other zoning, health, and environmental standards can be met. A pre-existing owner-occupied parcel may also be subdivided to create one additional building lot. Minor changes to existing structures are also exempt from the regulations. While these exceptions do not allow for the large-scale subdivision of land to accommodate new development, they do allow some development within sensitive watershed protection areas.

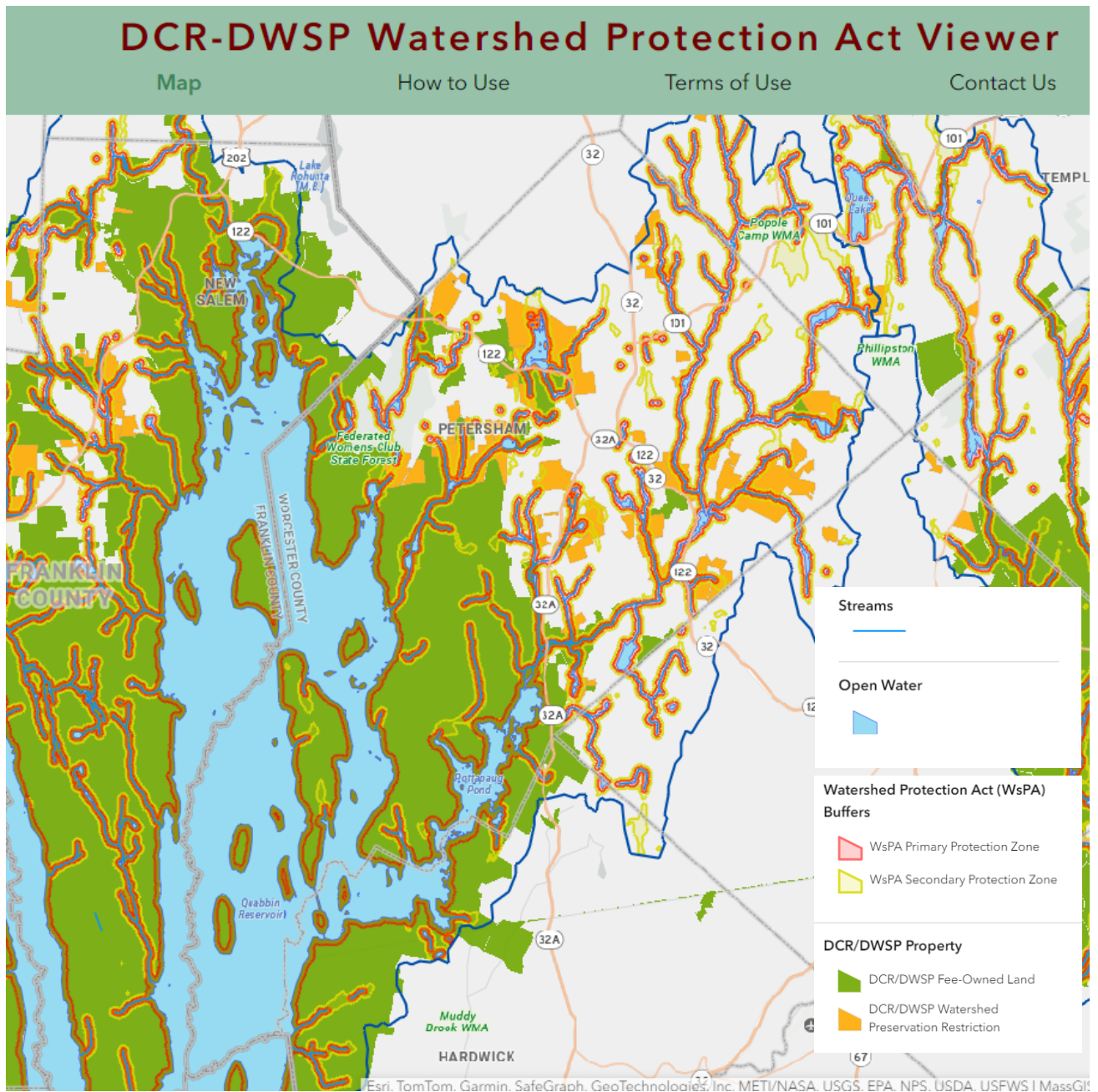
A complete list of the recreational restrictions within the various Quabbin Watershed areas is available in the 2018 Quabbin Reservoir Watershed System Public Access Management Plan Update (Appendix F). Among other recreational restrictions, there is no swimming allowed within the Quabbin or its regulating ponds (see Figure 4-2).

Surface Water Supply Protection Zones

Surface Water Supply Protection Zones are established under the Massachusetts Drinking Water Regulations (310 CMR 22.00) to protect active and emergency surface water supplies across the state. Three protection zones are defined in the regulations: Zone A, Zone B, and Zone C (see Map 4-6). Zone A includes land between the surface water source and the upper boundary of the bank; land within 400 feet of the upper boundary of the bank of a Class A surface water source (such as the Quabbin Reservoir); and land within 200 feet of the upper boundary of the bank of a tributary to the water source. Zone B generally includes land within one-half mile of the water source that is also within the source's watershed. Zone C includes all land within the watershed of a Class A surface water source other than those lands designated as Zone A or Zone B.

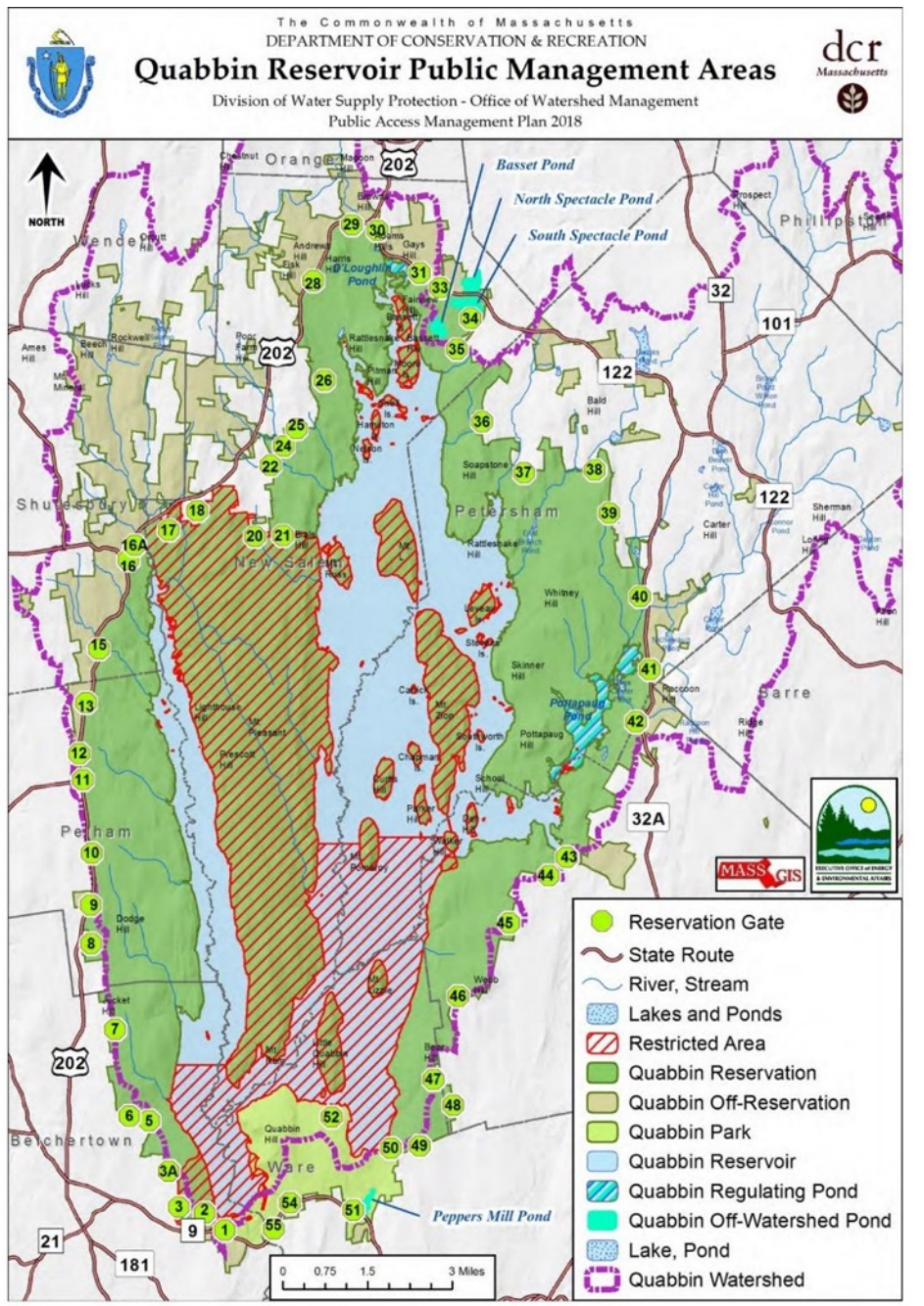
To protect surface water sources, the Drinking Water Regulations prohibit potentially hazardous land uses within Zone A, such as underground storage tanks, storage of liquid hazardous materials, and sewage treatment or disposal works. In general, the Watershed Protection Act tends to supersede the Drinking Water Regulations with stricter land use controls within critical Zone A areas.

Figure 4-1: Watershed Protection Act Viewer



Screen shot of the DCR’s online Watershed Protection Act Viewer that residents can use to access Watershed Protection Act (WsPA) restrictions at the parcel level. These data layers are unavailable for download. The Watershed Protection Act tends to supersede the Surface Water Supply Protection Zones (see following Map 4-6) with stricter land use controls within the critical Zone A areas. Sources: Massachusetts Department of Conservation and Recreation

Figure 4-2: Quabbin Reservoir Public Management Areas

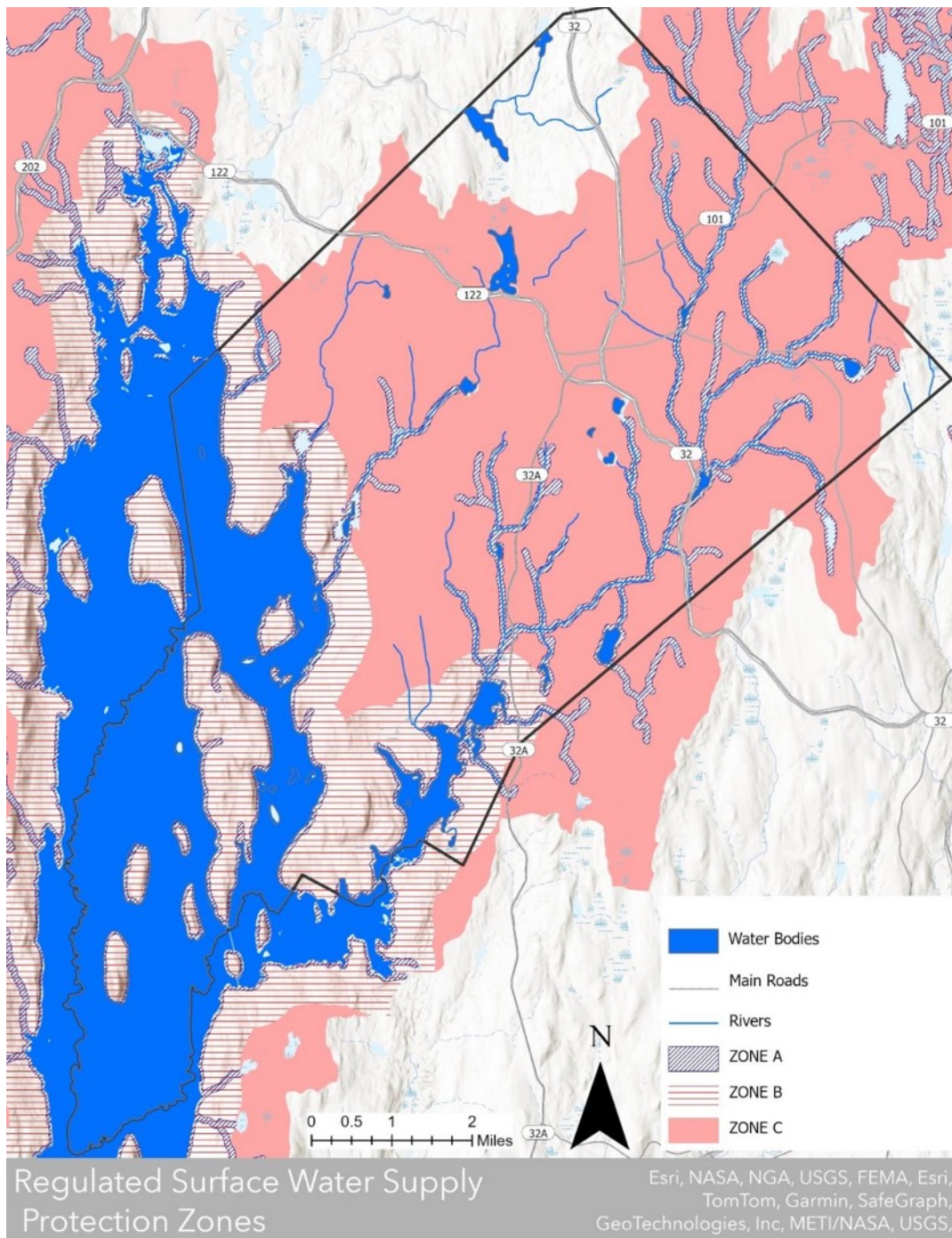


2018 Quabbin Reservoir Watershed System
Public Access Management Plan Update

“Water, water, everywhere, and not a place to swim.” - Petersham Resident

Over 70% of the Quabbin watershed is directly owned and managed by the DCR Division of Water Supply Protection which includes a large section of Petersham. Multiple defined areas have different recreational access restrictions. Swimming is banned within the reservoir and its regulating ponds. To see the full accompanying list of access restrictions, please see the full report in Appendix F. Sources: 2018 Quabbin Reservoir Watershed System Public Access Management Plan Update.

Map 4-6: Regulated Surface Water Supply Protection Zones



Surface Water Supply Protection Zones are established under the Massachusetts Drinking Water Regulations (310 CMR 22.00) to protect active and emergency surface water supplies across the state. In general, the Watershed Protection Act tends to supersede the Drinking Water Regulations with stricter land use controls within critical Zone A areas (see previous Figure 4-1). Sources: MassGIS Data Layers: Surface Water Supply Protection Areas (ZONE A, B, C), Quabbin Reservoir Bathymetry

PFAS

Petersham's residents are all on private wells, so the town does not have a SWAP report to describe possible contaminants to the water supply. However, because the Quabbin Reservoir is partly within the town's boundaries, Petersham was selected for testing of the Massachusetts Water Resources Authority's (MWRA) study of per- and polyfluoroalkyl substances (PFAS) across the state's public water supplies. Six PFAS compounds have been regulated by the state since 2020 because they have been implicated in adverse health effects.

The level of these PFAS compounds found in the town's tested private wells has exceeded the state's regulatory standard (Sierra Club). However, according to the same analysis, the Quabbin Reservoir's levels are below the reporting limit.

Although the full picture of how these substances affect humans is not yet clear, studies have shown that they may cause a range of health effects, including thyroid, liver, kidney, immune system, and developmental effects, as well as higher risk of cancer (Andrews et al.). Ecological impacts of these chemicals also remain unclear, but there is a growing body of evidence to suggest that the wildlife health is harmed, which may be most concerning for rare and endangered species that are already struggling with multiple adverse environmental conditions for survival (Andrews et al.).

PFAS chemicals are found in firefighting foam, landfills, manufacturing sites, and likely because of their use in many consumer products, in septic tanks. From these sources PFAS pollutants leach into the ground water supply. It is unclear where Petersham's PFAS contaminants are from or how they fluctuate over time but given their known impact on public health and the town's significant watershed contribution into the Quabbin Reservoir, the continued monitoring of pollutant levels may be important for the health of local residents relying on private wells and people elsewhere in the state who get water from the Quabbin. Additionally, some of Petersham's high quality habitat for rare wildlife (see Section 4.D) could face degradation by the presence of PFAS in the watershed.

Surface Water

The water resources within each sub-watershed, including streams, ponds, and wetlands, are identified below. Each water body is matched to a number on Map 4-7 FEMA Flood Zones and Water Bodies.

The Quabbin Reservoir (#1) was created in the 1930s by the construction of two huge earthen dams. The reservoir is fed by the three branches of the Swift River, and seasonally by the Ware River. To make way for the reservoir, four former towns in the Swift River Valley were evacuated, bulldozed, or burned, and then flooded. The reservoir is 18 miles long and has 181 miles of shoreline including 61 miles along the reservoir's 60 islands and holds up to 412 billion gallons of water when full. Water from the Quabbin is conveyed eastward to the Wachusett Reservoir to supply communities in the Boston Metropolitan area.

The East Branch of the Swift River (#2) starts at the confluence of Bigelow, Popple Camp, and Shattuck Brooks in Popple Camp State Wildlife Management Area close to Petersham's

northeastern border with Phillipston. The East Branch of the Swift River is fed by Stony Brook from the west before it flows through *Brown's Pond* (#3), joins with *Moccasin Brook* (#4) from the east and then into *Connor's Pond* (#5) where it meets with the waters of *Rutland Brook* (#6). After the river leaves Connor's Pond, it is fed by several smaller brooks before joining *Pottapaug Pond* (#7) and the Quabbin Reservoir.

The East Branch of Fever Brook (#8) begins at *Harvard Pond* (#9) and flows southwest toward its mouth at the Quabbin Reservoir southeast of Rattlesnake Hill through the East Branch Pond (#10).

The West Branch of Fever Brook (#11) flows through the Federated Women's Club State Forest before draining into the Quabbin just south of Soap Stone Hill.

Nelson Brook (#12), *Davenport Pond* (#13), and *Riceville Pond* (#14) are in the northern corner of town and drain north into the Millers River watershed.

Rivers Protection Act

The area within 200 feet of the riverbank can play an important ecological role by filtering sediment and pollutants out of runoff before it reaches the river; serving as the hydrologic recharge area for rivers; providing complementary habitat for riparian species requiring upland resources; and allowing riparian corridors to serve as wildlife migration routes. The Massachusetts Rivers Protection Act, incorporated into the Wetlands Protection Act in 1996, regulates development within 200 feet of perennial rivers and streams (defined provisionally as those streams that appear as dark blue lines on USGS topographic maps). The Petersham Conservation Commission administers this Act locally. Typically, development is allowed within 100 feet of streams only under extraordinary circumstances, but certain types of development are sometimes allowed between 100 and 200 feet of streams.

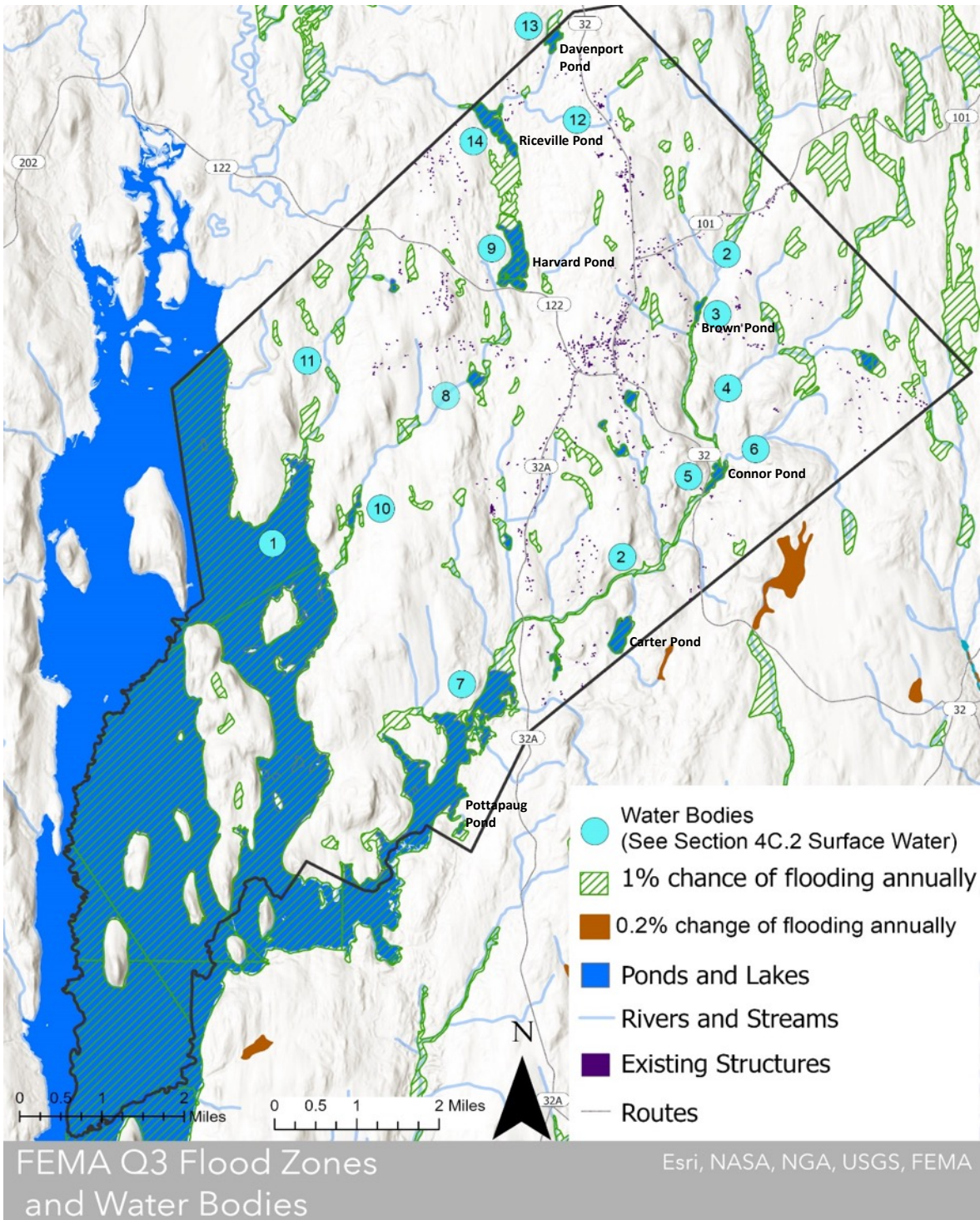
Aquifer Recharge Areas

Petersham does not have any high-yield or medium-yield aquifers mapped by MassGIS. Generally, high-yield aquifers are those capable of sustaining a pumping rate of more than 300 gallons per minute (gpm), while medium-yield aquifers can sustain a pumping rate of between 100 and 300 gpm. Smaller, less productive aquifers of alluvial and glacial origin, as mapped by the USGS, are located primarily in the riparian areas along the East Branch of the Swift River and around the Quabbin. Many of the town's residents obtain their water from deeper wells, which tap layers of rock that are generally poorly permeable but adequate to support the relatively low water needs of single-family houses and small businesses. The lack of medium or high-yield aquifers and community dependence on wells limits the level of development feasible within the town.

Flood Hazard

Flood hazard areas shown in the FEMA Flood Data Q3 Flood Zones data layer are minimal. They occur along ponds, streams, and the East Branch Swift River with little to no development in them (see Map 4-7). The failure of beaver dams during sudden storm events causes temporary flooding (2014 OSRP).

Map 4-7: Water Resources Map: FEMA Q3 Flood Zones and Water Bodies



Flood hazard areas are minimal and are shown in the FEMA Flood Data Q3 Flood Zones data layer and occur along ponds, streams, and the East Branch Swift River. These flood zones do not appear to coincide with any existing structures in town. Sources: MassGIS Data Layers: FEMA Q3 Flood Zones, Hydrography 100k, Quabbin Reservoir Bathymetry

Wetlands

Unforested wetlands only cover 4% of the town's land area. Some of the most prominent wetlands are Tom Swamp and the wetlands along the East Branch of the Swift River, which fan out into a wide expanse on both sides of Popple Camp Road (Route 101) as one heads toward Phillipston. According to the 2014 OSRP, as with other parts of the town, there is considerable beaver activity in Harvard Pond bordering Tom Swamp on the south and numerous beaver ponds along the East Branch of the Swift River. Other riparian wetlands border portions of several streams and ponds in Petersham, including Harvard Pond, Riceville Pond, Pottapaug Pond, and all three major streams. Petersham does not have an official wetlands map. Numerous riparian connected wetlands evolve as the beaver population continues to develop (2014 OSRP).

Many of Petersham's wetlands are under permanent protection from development, while some areas have limited protection from development via the Massachusetts Endangered Species Act (MESA). Three of Petersham's largest wetlands, while somewhat protected under the ownership and care of Harvard Forest, have partial to limited levels of official protection (see Map 4-8).

Climate Change

Wetlands are a critical tool for climate change mitigation. Although only 3% of the world's surface is wetlands, they store 30 to 50% of the world's carbon, which is twice as much as global forests (UN Environment). When wetlands are drained for development, stored carbon is released into the atmosphere. Additionally, Petersham's wetlands harbor rich biodiversity as they include numerous rare and endangered species (see Section 4E), making them a critical landscape for the community's mitigation and adaptation of climate change (United Nations).

Legal Protection

Wetlands have both human and ecological importance for pollution control, flood control, storm damage protection, wildlife habitat, fisheries, groundwater supply, and recreation. Wetlands in Massachusetts are regulated under the Wetlands Protection Act (310 CMR 10.00). Petersham's Conservation Commission is currently developing a local wetland protection bylaw to supplement these state regulations.

Vernal pools are not protected by the Wetlands Protection Act by right; however, vernal pools certified by the Massachusetts Natural Heritage and Endangered Species Program (NHESP) are protected (see Map 4-8). These certified vernal pools are also protected by the state Water Quality Certification regulations (401 Program), the state Title 5 regulations, and Forest Cutting Practices Act regulations. Many of Petersham's potential vernal pools mapped by the NHESP are not certified and not under permanent protection.

The Massachusetts Wetlands Protection Act applies to activity within 100 feet of bordering wetlands (wetlands bordering ponds, streams, and other water features) and within certain isolated wetlands. The Wetlands Protection Act does not provide protection for many small, isolated wetlands.

The Petersham Conservation Commission administers this law and considers applications for activities in wetlands and buffer zones. According to the 2014 OSRP, wetland alteration is generally only allowed when there are no feasible alternatives and is subject to the condition that an equivalent amount of wetland must be replicated elsewhere. However, there is a growing body of evidence that suggests that wetland replication projects have variable establishment success rates and that constructed wetlands may take decades to centuries to have a net positive effect in mitigating climate change because of the methane released from their construction (Regenerative Design Group, et al., 51).

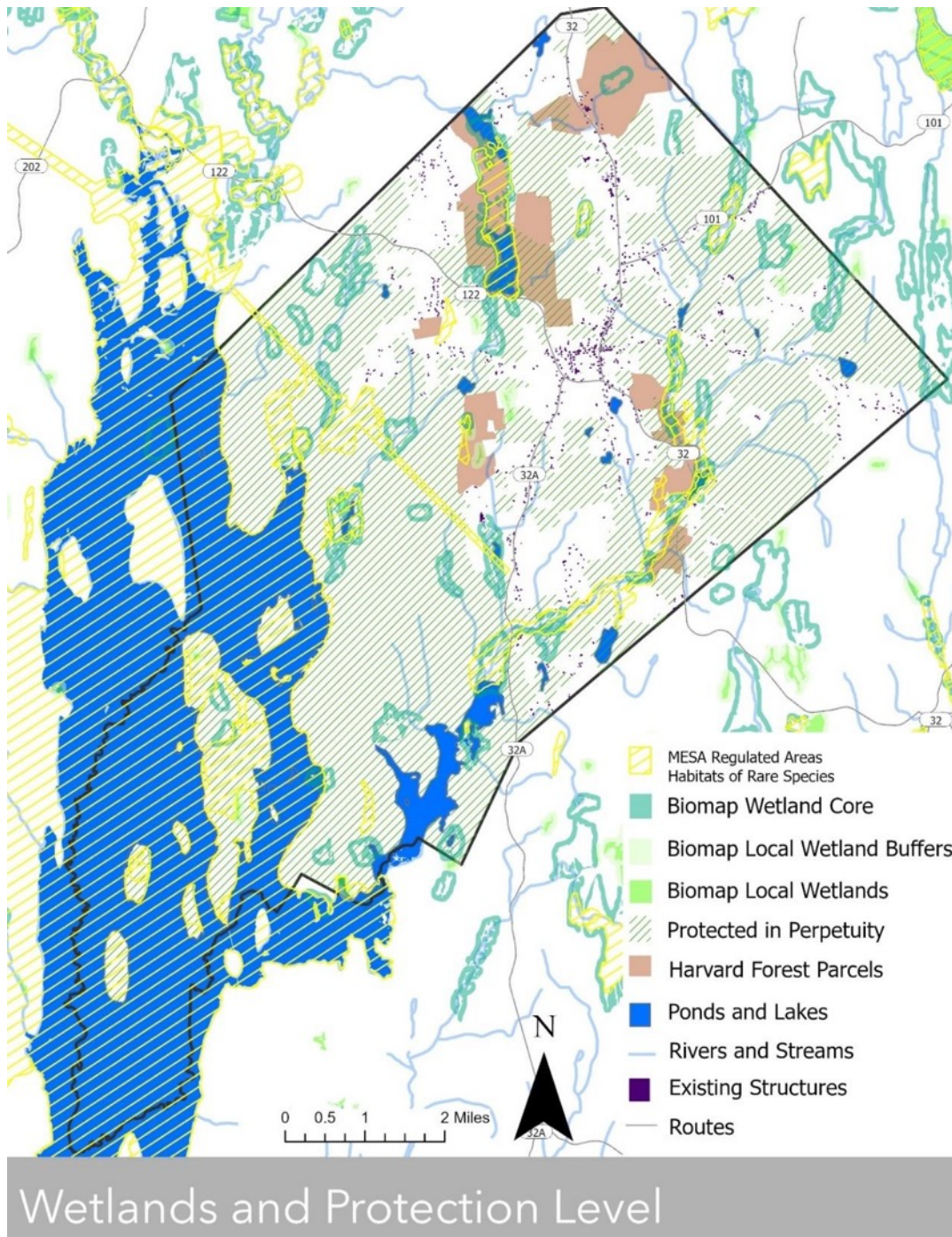
In wetland buffer zones, work is often allowed subject to an Order of Conditions from the Conservation Commission. Although the Conservation Commission has some discretion in deciding how much development to allow in wetlands and buffer zones, the MA Department of Environmental Protection has the authority to override any Conservation Commission decision.

Although national and state regulations limit development directly on wetlands, there is limited legal protection for the upland landscapes connected to them. Wetland health is critically dependent on the health of their connecting uplands (Regenerative Design Group et al.), which in Petersham is likely most effectively cultured by forests. Therefore, protecting the forested uplands that drain into wetlands from development and clear-cutting is critical to maintaining Petersham’s wetland health, which in turn protects its biodiversity and carbon storage—key components of the town’s global climate change mitigation and adaptation contribution.



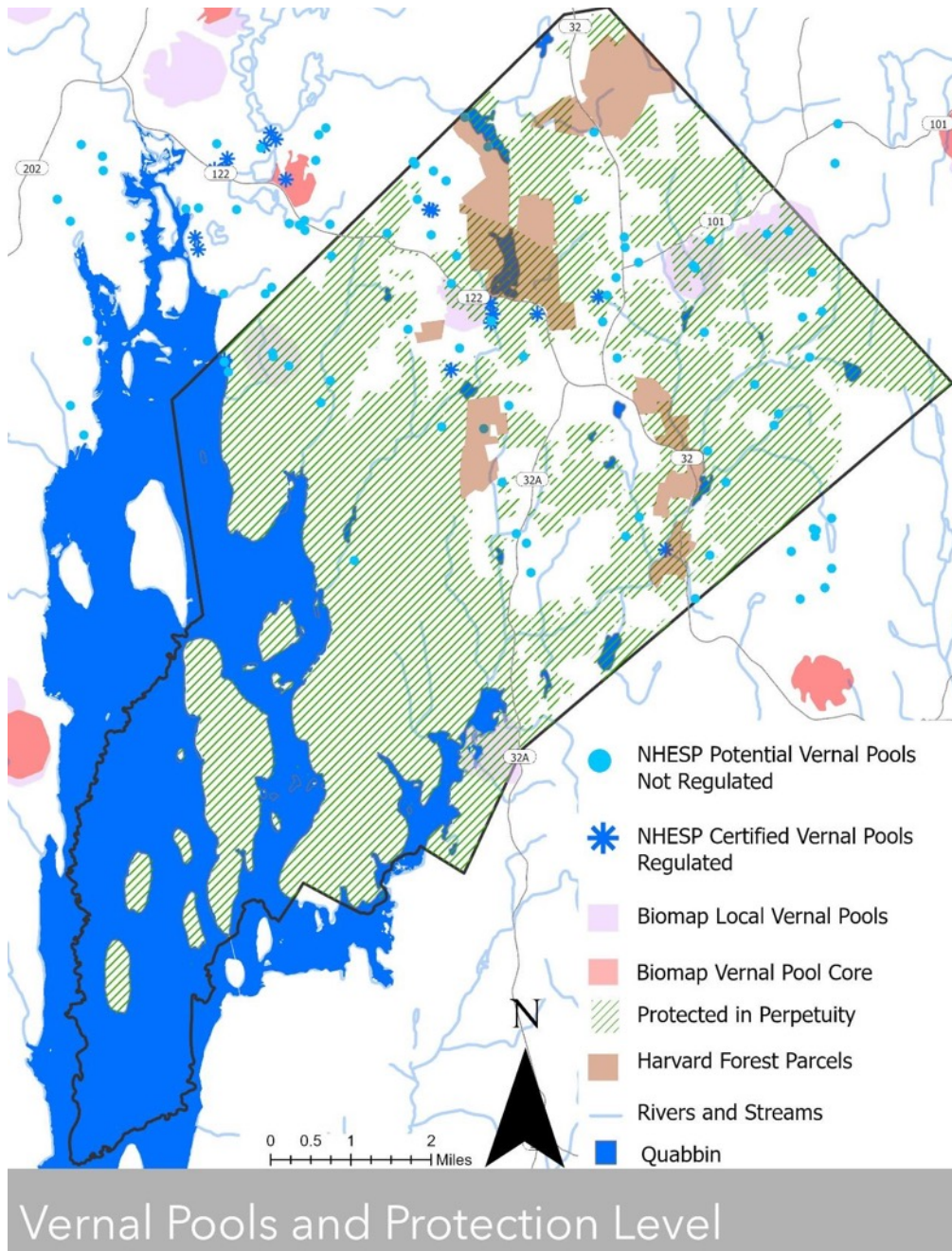
Swift River, Slab City Tract. Courtesy of Harvard Forest.

Map 4-8 Wetlands and Protection Level Map



Many of Petersham’s wetlands are under permanent protection from development, while some areas have limited protection under the Massachusetts Endangered Species Act (MESA). Three of Petersham’s largest wetlands, while currently intact under the ownership and care of Harvard Forest, have varying levels of permanently protected area. Additionally, the landscapes surrounding many wetlands remain unprotected, leaving the future health of these wetlands at risk. Sources: MassGIS Data Layers: Protected and Recreational Open Space, Town Assessor’s data, Building Structures (2D), Hydrography 100k, BioMap, MASSDOT Roads, Quabbin Reservoir Bathymetry

Map 4-9: Vernal Pools and Protection Level Map



Development of areas designated as NHESP Certified vernal pools are regulated under the Wetlands Protection Act. Many of Petersham’s potential vernal pools mapped by the NHESP are not certified and not under permanent protection, so are potentially vulnerable to development and destructive forestry practices. There are no vernal pools of statewide importance (BioMap Vernal Pool Core) within Petersham, but five areas of local importance have been identified (BioMap Local Vernal Pools). These areas have clusters of pools that have intact upland habitat, which is critical to pool health, and are considered ecologically significant because of wildlife abundance or rare species presence, and all are at least partially protected in perpetuity. Sources: MassGIS Data Layers: Protected and Recreational Open Space, Town Assessor’s data, Hydrography 100k, BioMap, NHESP Priority Habitats of Rare Species, NHESP Estimated Habitats of Rare Wildlife, NHESP Certified Vernal Pools. NHESP Potential Vernal Pools, MASSDOT Roads, Quabbin Reservoir Bathymetry

D. Vegetation

Regional Ecosystem

A combination of soils, bedrock, and topographic characteristics put Petersham on the fuzzy boundary between two ecoregions: the Lower Worcester Plateau of the Southern New England Coastal Plains, and the Worcester Plateau of the Northeastern Highlands. The general vegetation types included in both ecoregions include transition hardwoods of maple-beech-birch, but the northern Worcester Plateau ecoregion includes northern hardwoods with pockets of spruce on the higher hilltops, while the southern Lower Worcester Plateau ecoregion features central hardwoods of oak-hickory, as well as elm-ash-red maple and white pine (Mass Audubon). However, the border between these two ecoregions is not discrete, but indicates that their natural communities gradually shift through the transition from one region to the next.

Petersham's Forests

Research conducted in the forests of the area reveals that the vegetation today is quite different to what the colonists found when they began arriving in Petersham in the mid-1730s. The forests of the early 1700s were a two-tone quilt, with northern hardwoods on the cooler highlands and oak-hickory on the warmer lowlands (Black and Brinser). Chestnut ran through both types of forest as did patches of white pine and areas of Eastern hemlock. Since that time, several changes have occurred. Most notably, about 80% of the Town's forests were at one time cleared for farming. This not only changed the vegetation in the short term, but also resulted in changes to the soil composition, nutrient content, and seed bank—such that the forests that eventually recolonized the landscape were often different from those that had existed previously.

Today, the forest canopy is more like one large piece of mottled cloth. Conifer patches of Eastern hemlock and white pine fade to areas of mixed hardwoods including maple, beech, and oak. Due to the disturbances of the 1938 hurricane, settler-colonial clearing of the landscape up through the early twentieth century, and the chestnut blight of the early twentieth century, many of the forests in Petersham are even aged and under a century old. The town's western forests reflect the slightly warmer, lower elevation landscape of the Lower Worcester Plateau with pockets of oak-hickory central hardwoods, while its eastern half contains relatively fewer.

Rare forest communities mapped by the NHESP Natural Communities data include three Red Spruce swamps, a Sugar Maple-Oak-Hickory forest and Hickory-Hop Hornbeam woodland, an Oak-Hemlock-White Pine circumneutral (approximately neutral-pH) talus forest on ultramafic bedrock pocket, an Acidic Rock Outcrop community, and a large, relatively undisturbed Oak-Hickory forest on Camel's Hump Hill (see Map 4-10). These rare and endangered vegetative communities, as well as those that are unmapped, are important hotspots for biodiversity in town.

One of the many ecosystem benefits provided by Petersham's forests is the health of the Quabbin watershed. The vast tree cover holds soil and reduces water body eutrophication from nutrient and pollutant runoff. In fact, the DCR Division of Watershed Management states that its primary goal is to "promote healthy forest cover on the vast majority of the lands it owns and manages." (DCR Division of Watershed Management).

Petersham's forests are also playing a big role in carbon sequestration. Data collected by the Department of Water Supply Protection indicate that the carbon dioxide storage in the DCR Quabbin watershed lands grew from an average of 85 tons per acre per year in 1970 to 153 tons per acre per year in 2010 (DCR Division of Watershed Management). Although these data are collected from the entire DCR watershed land and are not only representative of Petersham, it suggests that Petersham's forests are part of a critical carbon sink resource.

Street Trees

The public shade trees on the common and in town cemeteries are especially prized by residents. When trees must be removed due to damage or decay, replacement trees are planted. Petersham's roadsides are generally flanked by its vast forests, and the character of the town's roads has become increasingly important to townspeople. Petersham's Planning Board adopted the bylaw Rules and Regulations Governing Scenic Roads in 1977 to promote tree cover, safeguard the viewshed, and require replacement of stone walls along the roads for a number of roads in town.

The 2014 OSRP cites community interest in planting native shrub species, especially flowering shrubs, along roadsides to reduce roadside maintenance. Current roadside maintenance conducted by the Highway Department includes selective roadside mowing, and National Grid utility workers also cut back woody vegetation to maintain clear power lines.

Open Landscapes

Pockets of open, non-forested lands add critical habitat diversity in Petersham's heavily forested landscape. Agricultural land is a major component of these open landscapes, and while it provides crops for humans and domestic livestock, it also provides habitat for many species of conservation concern, including grassland birds. Petersham is exploring how to encourage sustainable agricultural practices that bolster biodiversity across the community.

Another important open landscape is the utility right-of-way that runs from the northwest to the southeast. It is mapped by the NHESP as a Priority Habitat of rare and endangered species, and as such is regulated under the Massachusetts and Endangered Species Act (MESA). It is unclear if encroaching woody vegetation on this landscape is chemically treated, but this may have a significant impact on the rare species depending on this landscape.

Rare Plant Species

Petersham contains fifteen rare plant species that are endangered, threatened, or of special concern according to the NHESP. Eleven of these have been observed in the last thirty years; and four have not been seen since the 1930's. However, this list is likely an incomplete picture of the rare wildlife present within town, as rare and endangered species are in many cases difficult to find. Additionally, citizen science organizations have identified species such as the purple pitcher plant (*Sarracenia purpurea*), and toothed tick-trefoil (*Desmodium cuspidatum*).

It is well documented in ecological literature that vegetation and wildlife respond to bedrock pH and corresponding available nutrients (Searcy et al;) (Anderson & Ferree). In Massachusetts, most bedrocks are acidic, lower-nutrient types, with relatively few areas of calcareous, nutrient-

rich bedrock and surficial materials. Correspondingly, many of the rarer species in the state are those that are found in ecological communities that form on the rarer, calcareous bedrock. Petersham’s landscape is underlain with both acidic and calcareous bedrock, so this is likely one of the drivers of ecological diversity in the community. According to the NHESP Fact Sheets, eight of the fifteen rare plant species are dependent on nutrient-rich, calcareous or circumneutral environments that are typically driven by mafic bedrock types (see Table 4-4).

Species Spotlight: Sweet Coltsfoot



Sweet Coltsfoot (*Petasites frigidus* var. *palmatus*) has typically occurred in forested swamps and calcareous fens or seepages, often in the presence of red maple (*Acer rubrum*), white pine (*Pinus strobus*), yellow birch (*Betula alleghaniensis*) and balsam poplar (*Populus balsamifera*). This perennial wildflower rarely blooms in the state. According to its official NHESP Fact Sheet, Sweet Coltsfoot’s potential threats include “direct loss of adult plants during forestry activities and trail maintenance or development. Several invasive species, such as Coltsfoot, have colonized the remaining populations and may compete with it for space on forested hillsides. As a subarctic species at the southern extent of its range, *P. frigidus* may respond poorly to shifts in forest community structure caused by regional climate change” (Massachusetts Division of Fisheries and Wildlife Natural Heritage and Endangered Species Program, 2).

Table 4-4: Rare and Endangered Plant Species with Abbreviated Habitat Description

Common Name	Scientific Name	MESA Status	Most recent observation	NHESP profile habitat description
Sweet Coltsfoot	<i>Petasites frigidus</i> <i>var. palmatus</i>	Endangered	2023	calcareous
Adder's Tongue Fern	<i>Ophioglossum pusillum</i>	Threatened	2023	boggy meadows, acidic fens
Great Laurel	<i>Rhododendron maximum</i>	Threatened	2022	acidic moist woods, swamps,
Drooping Speargrass	<i>Poa saltuensis</i> ssp. <i>languida</i>	Endangered	2020	Calcareous
Purple Clematis	<i>Clematis occidentalis</i>	Special Concern	2020	calcareous
Climbing Fumitory	<i>Adlumia fungosa</i>	Special Concern	2019	calcareous
Appalachian Bristle-fern	<i>Crepidomanes intricatum</i>	Endangered	2018	circumneutral to high pH
Back's Sedge	<i>Carex backii</i>	Endangered	2016	dry, rocky, calcareous
Eastern Dwarf Mistletoe	<i>Arceuthobium pusillum</i>	Special Concern	2009	Peatlands
Tuckerman's Sedge	<i>Carex tuckermanii</i>	Endangered	2005	lowlands preferred
One-flowered Pyrola	<i>Moneses uniflora</i>	Special Concern	1995	woodland humus in cool, shady sites, open understory
Hairy Beardtongue	<i>Penstemon hirsutus</i>	Endangered	1932	dry dolomitic limestone
Dwarf Rattlesnake-plantain	<i>Goodyera repens</i>	Endangered	1931	Unclear
Tiny Cow-lily	<i>Nuphar microphylla</i>	Endangered	1931	shallow, still, or slow circumneutral waters
Long's Bittercress	<i>Cardamine longii</i>	Endangered	1923	tidal conditions

The largest group of rare and endangered plant species in Petersham depend on circumneutral conditions, which is likely driven by the presence of ultra-mafic and mafic bedrock. Two species depend on acidic bogs or peatland landscapes. Therefore, in terms of biodiversity conservation efforts, parcels on mafic bedrock types may be of greater value for the town because they are more likely to offer higher vegetative species richness than metamorphic or granitic bedrock types. Sources: Division of Fisheries and Wildlife Endangered Species Program Rare Species Viewer and Species Fact Sheets

E. Fisheries and Wildlife

Although largely forested, Petersham contains a wide range of habitats including croplands, orchards, meadows, fields, wetlands, vernal pools, rivers, and streams. In addition to the many private parcels permanently protected by Petersham residents, DCR's protection of thousands of acres of the Quabbin watershed as well as the many large contiguous tracts protected and managed by the Division of Fisheries and Wildlife, Department of Environmental Management, Harvard Forest, Mass Audubon Society, and the Trustees, has contributed significantly to the quality of forests, wetlands, ponds, rivers, and streams within these large connected landscape blocks, which in turn provide secure homes for a range of wildlife. Hundreds of different tree, shrub, wildflower, and wildlife species, including many species that are rare or endangered in Massachusetts are found here. These include the American Bittern, Sedge Wren, Bald Eagle, Spatterdock Darner, Long Bitter's Cress, Dwarf Rattlesnake Plantain, Tiny Cow-lily, and Hairy Beardtongue, among others (see Tables 4-4 and 4-5). Not only do these large, protected lands surrounding the Quabbin Reservoir ensure contiguous wildlife habitat, but the reservoir itself is a large freshwater habitat that many other wildlife species depend on, including blue heron, green heron, North American river otter, yellow perch, and Eastern elliptio mussels. Common species seen throughout the town include beaver, black bear, wild turkey, moose, muskrat, mink, porcupine, bobcat, coyote, snowshoe hare, whippoorwill, musk turtles, red backed salamander, pumpkinseed fish, brook trout, tessellated darters, and freshwater pearl mussel among many others (iNaturalist).

The Massachusetts Natural Heritage and Endangered Species Program (NHESP) provides an inventory of rare and endangered species and their habitats throughout the state. 180 species of animals and 273 species of plants are protected under the Massachusetts Endangered Species Act. According to NHESP, these 453 native species are listed as Endangered (E), Threatened (T), or of Special Concern (SC) with the following definitions:

Endangered: Any species of plant or animal in danger of extinction throughout all or a significant portion of its range and species of plants or animals in danger of extirpation as documented by biological research and inventory.

Threatened: Any species of plant or animal likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range and any species declining or rare as determined by biological research and inventory and likely to become endangered in the foreseeable future.

Species of Special Concern: Any species of plant or animal which has been documented by biological research and inventory to have suffered a decline that could threaten the species if allowed to continue unchecked or that occurs in such small numbers or with such a restricted distribution or specialized habitat requirements that it could easily become threatened within Massachusetts.

The NHESP inventory also includes the following classifications, which are shown on Maps 4-11 and 4-12:

Estimated Habitat of Rare Wildlife: These areas consist of wetland habitats used by state-listed rare animal species and are regulated under the MA Wetlands Protection Act. Anyone proposing a project within an Estimated Habitat area must submit a Notice of Intent and undergo project review by the NHESP. Four separate areas in Petersham are listed as Estimated Habitats of Rare Wildlife in the 15th Edition of the Natural Heritage Atlas including: the Quabbin Reservoir and the East Branch of the Swift River up to Connor Pond; Harvard Pond and the contributing wetland area of Tom Swamp; north of Connor Pond where the Moccasin and Rutland Brooks join the East Branch of the Swift River; and along the East Branch of the Swift River north of its confluence with Stony Brook.

Priority Habitat for State-Listed Rare Species: These areas indicate the most important habitats for *all* state-listed rare species, including both upland and wetland species, and both plant and animal species. These areas are intended for land planning purposes, and their status does not confer any protection under state law. Petersham's Priority Habitat areas coincide with the Estimated Habitats, with the addition of one area south of the East Branch of Fever Brook.

BioMap Core Habitat and Critical Natural Landscape: NHESP developed BioMap as a conservation planning tool based on verified natural community and rare species data that correspond to actual locations on the ground. Based on available data, NHESP scientists mapped areas needed to support viable populations of each of the target species. BioMap Core Habitats are the most critical of these areas, while Critical Natural Landscapes are additional areas of importance that provide natural buffers, corridors, or expanded home ranges for species that live in the Core Habitat areas. As shown in Map 4-12, the BioMap project has designated the majority of Petersham as either Core Habitat or Critical Natural Landscape. These designations do not afford any legal protection to land but should be used for land use planning purposes.

Certified and Potential Vernal Pools: Vernal pools are small, seasonal water bodies occurring in isolated basins that are usually wet during the spring and early summer and dry up during the later summer months. Vernal pools typically lack fish populations, making them excellent breeding habitat for many amphibian species and larval and adult habitat for many insect species, as well as other wildlife. It is important to note that many of these species rely on not just the vernal pool itself, but also the adjacent upland area, for their survival. Certified Vernal Pools are vernal pools that have been inventoried by local volunteers and certified under NHESP's certification process. Potential Vernal Pools identify the estimated locations of additional vernal pools based on interpretations of aerial photographs.

Rare Wildlife Species

Petersham is home to 25 NHESP verified species that are endangered, threatened, or of special concern (see Table 4-5). Twenty-one of these have been observed in the last thirty years, but a handful have not been seen since the 1970s or 80s. However, this list is likely an incomplete picture of the rare wildlife present within town, as rare and endangered species are in many cases difficult to find. Citizen scientists on iNaturalist have identified additional rare and endangered species such as merlin falcon (*Falco columbarius*), golden-wing warbler (*Vermivora chrysoptera*), four-toed salamander (*Hemidactylum scutatum*), and spotted turtle (*Clemmys guttata*).

The largest group of Massachusetts Endangered Species Act (MESA) protected species in Petersham are those dependent on riparian habitats. The Quabbin Reservoir provides habitat for rare species that depend on large freshwater bodies, including populations of bald eagles and loons. The Swift River and the many clean brooks and streams through the town also likely provide important habitat for many of the riparian species documented (see Map 4-11).

Wetland Habitat

Although only 4% of Petersham is wetland land cover, the second largest habitat-dependent group of documented NHESP wildlife species of concern are wetland dependent species, and eight of those are specifically dependent on acidic bogs or peatlands. The Massachusetts Wetland Protection Act, enforced by the Petersham Conservation Commission, offers protection for wetlands themselves, but the uplands that drain into wetlands are not protected under this legislation. To protect the health of Petersham’s wetlands, their connected uplands must be protected (see Map 4-8).

Vernal Pool Habitat

Vernal pools, also known as ephemeral pools, are the breeding grounds for many amphibians because they dry out after spring rains and do not support predatory fish species that would otherwise eat amphibian eggs. Interestingly, many vernal-pool-dependent species are pool specific, meaning that they will only return to the pool in which they were born. Without Petersham’s vernal pools, populations of species like the spotted salamanders, wood frogs, and the spatterdock darner dragonfly (three species spotted in Petersham by citizen scientists on iNaturalist) would dwindle.

Vernal pools are not protected from development under MESA unless certified by the NHESP program (see Map 4-9). Petersham currently has nine NHESP certified vernal pools and fifty-nine potential vernal pools. In addition, the state has identified five BioMap vernal pool core habitat areas—areas with clusters of pools that have intact upland habitat, which is critical to pool health, and are considered ecologically significant because of wildlife abundance or rare species presence. However, only two of Petersham’s thirteen pools located within the vernal pool core areas are certified, so these pools may be considered priority for certification. To protect these sensitive habitat areas, it is critical that they are NHESP certified so that recreation activities and development projects are regulated by MESA and the local Conservation Commission.

Early Successional Habitats

Some of the wildlife species listed depend on a diversity of habitat types to meet their reproductive, forage, and housing needs. Like much of New England, Petersham’s natural land cover is primarily forested (see Map 3-2) and excepting the utility strip in the western half of town and the agricultural fields, offers minimal habitat for open-landscape-dependent species. Many of the state’s listed rare and endangered species are those that depend on these early successional habitats. If Petersham wants to maintain or improve their populations of wildlife that require these habitats, the town will need to prioritize their protection and management.

Species Spotlight: Eastern whip-poor-will



The Eastern whip-poor-will is an insectivorous, nocturnal, ground nesting bird. Their camouflage hides them well against the forest floor, and so they are rarely seen, but their call can be heard most easily on moonlit summer nights. Their habitat needs are not fully understood by the scientific community, but open woodlands are considered important for nesting while nearby meadows and shrublands may be used for forage. Little is known about their breeding habits, and even less about their migration patterns. Most known habitat sites support a single breeding pair, with less than twenty sites supporting multiple pairs. State conservation recommendations include protecting existing habitat and reintroducing a locally tailored disturbance regime to the landscape, such as prescribed fire.

Table 4-5: Rare and Endangered Wildlife Species with Abbreviated Habitat Description

Common Name	Scientific Name	Taxonomic Group	MESA Status	Most recent observation	NHESP profile habitat description
Eastern Whippoorwill	<i>Antrostomus vociferus</i>	Bird	Special Concern	2021	diversity: open habitat and dry, open woodlands
Pink Sallow Moth	<i>Psectraglaea carnosa</i>	Butterfly/Moth	Special Concern	2020	Acidic-loving vegetation
Wood Turtle	<i>Glyptemys insculpta</i>	Reptile	Special Concern	2020	riparian areas with sandy banks
Bald Eagle	<i>Haliaeetus leucocephalus</i>	Bird	Threatened	2020	forest shoreline habitat
Orange Sallow Moth	<i>Pyrrhia aurantiago</i>	Butterfly/Moth	Special Concern	2019	open woodlands and open habitats
Pitcher Plant Borer	<i>Papaipema appassionata</i>	Butterfly/Moth	Threatened	2019	acidic sphagnum bogs
Eastern Hog-nosed Snake	<i>Heterodon platirhinos</i>	Reptile	Special Concern	2019	many types of habitat
Ebony Boghaunter	<i>Williamsonia fletcheri</i>	Dragonfly/D amselfly	Endangered	2019	sphagnum bogs
Common Loon	<i>Gavia immer</i>	Bird	Special Concern	2018	highly water dependent
Ski-tipped Emerald	<i>Somatochlora elongata</i>	Dragonfly/D amselfly	Special Concern	2016	streams
Spine-crowned Clubtail	<i>Hylogomphus abbreviatus</i>	Dragonfly/D amselfly	Special Concern	2016	large streams and rivers
Creeper	<i>Strophitus undulatus</i>	Mussel	Special Concern	2009	small to large rivers, low to moderate water velocities
Twelve-spotted Tiger Beetle	<i>Cicindela duodecimguttata</i>	Beetle	Special Concern	2009	open areas with silty or sandy soil
Bog Elfin	<i>Callophrys lanoraieensis</i>	Butterfly/Moth	Threatened	2009	black spruce swamps/peatlands
Eastern Box Turtle	<i>Terrapene carolina</i>	Reptile	Special Concern	2004	many types of habitats
Harpoon Clubtail	<i>Phanogomphus descriptus</i>	Dragonfly/D amselfly	Endangered	2001	clear, cold streams with intermittent sections of rocks and rapids
Slender Clearwing Sphinx	<i>Hemaris gracilis</i>	Butterfly/Moth	Special Concern	2001	pitch pine-scrub oak barrens, rocky ridges, acidic bogs and swamps
Blue-spotted Salamander	<i>Ambystoma laterale</i>	Amphibian	Special Concern	1999	lowlands, depressions, vernal pools
Forcipate Emerald	<i>Somatochlora forcipata</i>	Dragonfly/D amselfly	Endangered	1998	bogs and pools in small, forested streams
Incurvate Emerald	<i>Somatochlora incurvata</i>	Dragonfly/D amselfly	Endangered	1998	sphagnum bogs

American Bittern	<i>Botaurus lentiginosus</i>	Bird	Endangered	1997	freshwater marshes, fens, bogs dominated by emergent vegetation
Bridle Shiner	<i>Notropis bifrenatus</i>	Fish	Special Concern	1990	clear water in slack riparian areas, lakes, ponds
Intricate Fairy Shrimp	<i>Eubbranchipus intricatus</i>	Crustacean	Special Concern	1985	vernal pools
Grasshopper Sparrow	<i>Ammodramus savannarum</i>	Bird	Threatened	1972	patchy grassland habitat, bare ground
Sedge Wren	<i>Cistothorus platensis</i>	Bird	Endangered	1971	wet meadows, marshes

Nineteen of Petersham’s twenty-five NHESP rare and endangered species depend on water-rich habitats, implying that the quality of Petersham’s watershed is critical to its biodiversity. Additionally, although wetlands only comprise 4% of the total land cover, nine of the twenty-five species depend on wetland habitat for survival. Protection of the few wetlands within town will go a long way to protect species richness. Data Sources: Division of Fisheries and Wildlife Endangered Species Program: Rare Species Viewer and Species Fact Sheets

Wildlife Corridors and Habitat Connectivity

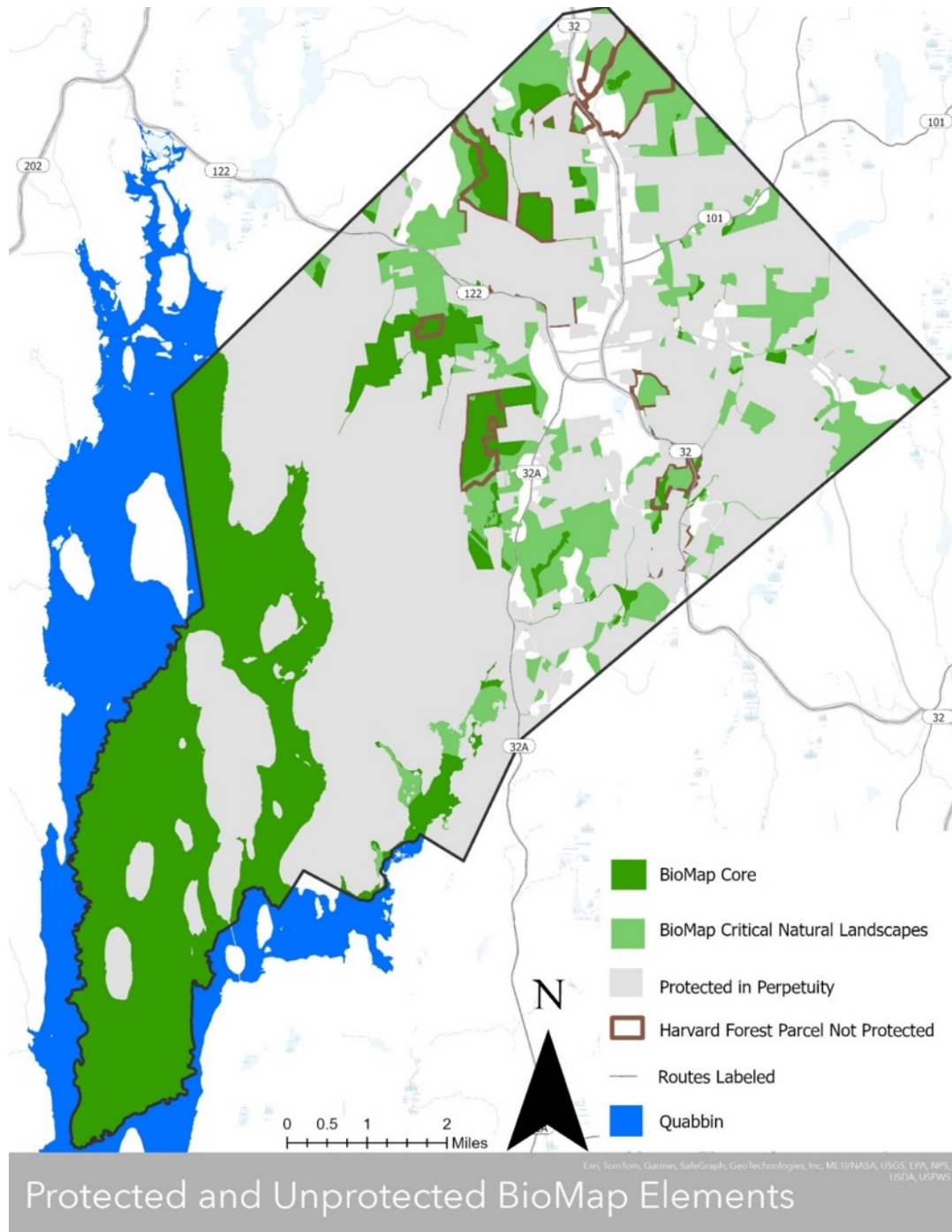
Wildlife corridors generally follow river and stream systems, but uplands and ridges are important as well, especially with bird migration. Forest type is also important such as hemlock stands in mid and late winter where deer tend to congregate for protection from heavy snow and ice. Petersham’s mix of uplands, wetlands, and rivers is an ideal combination for many wildlife species such as deer and a growing moose and black bear population, and predators, such as bobcats and the New England coyote have maintained healthy populations over many years. Petersham’s large blocks of minimally developed areas provide excellent connected habitat, particularly to the west approaching the Quabbin Reservoir (see Map 4-12).

Roads are known to be a major restrictor of wildlife movement (Shepard et al.). Currently, Petersham’s subdivision bylaws (Zoning Bylaws Section 19) restrict the construction of new roads and subdivisions, and the minimal number of roads in town relative to other municipalities likely protects habitat contiguity. Where major roads and development do occur in Petersham, the BioMap Core and Critical Natural Landscape regions split and shrink. This is most apparent in the town center and northwards along Route 32, which are the major fragmenting areas in town that bisect otherwise relatively contiguous habitat. Development outside of these areas could significantly impact the health and quality of ecological systems in town (see Map 4-12).



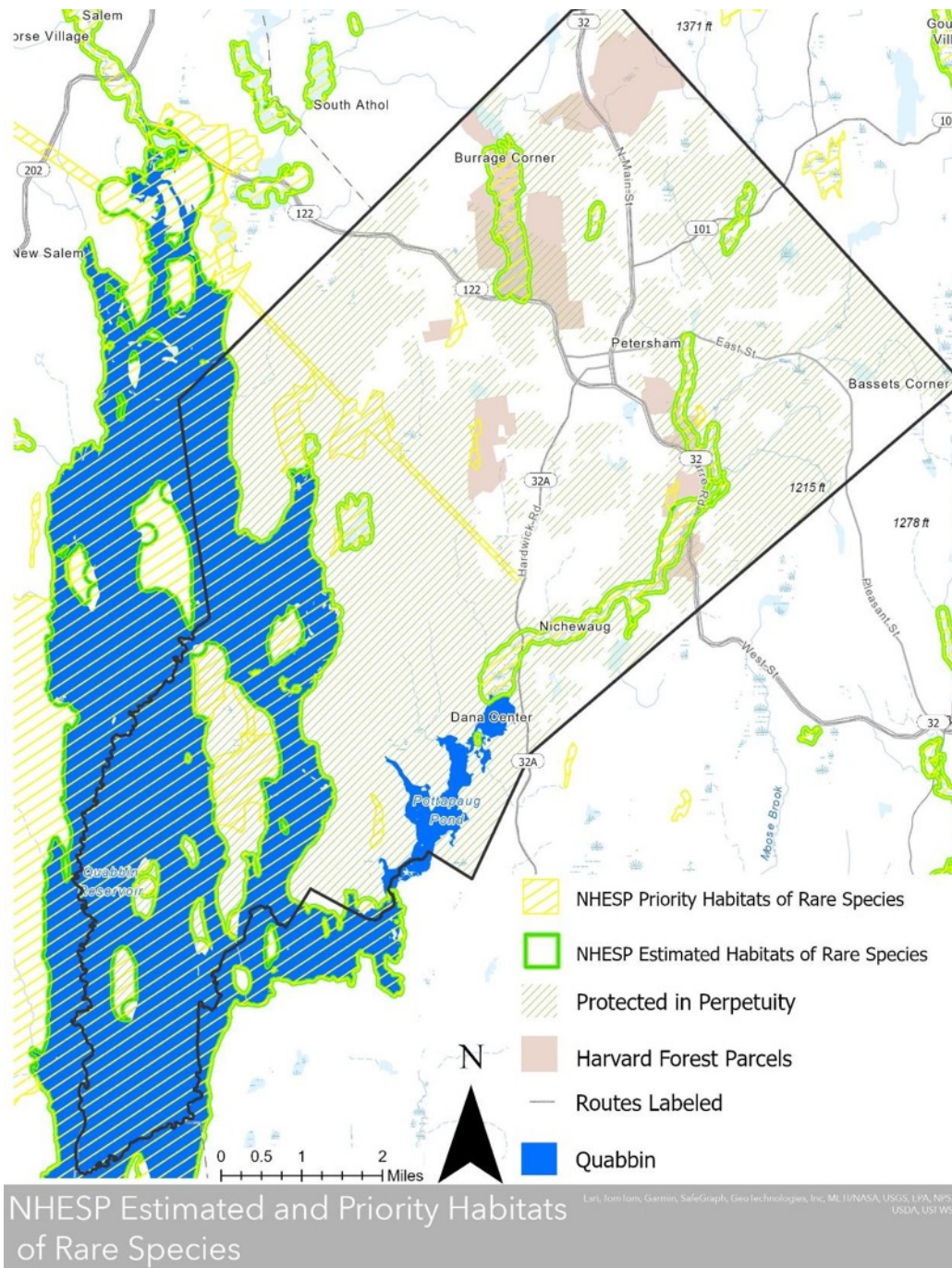
Above canopy view of Gould Woodlot looking southwest toward Quabbin Reservoir. Courtesy of Harvard Forest.

Map 4-10 Protected and Unprotected BioMap Elements



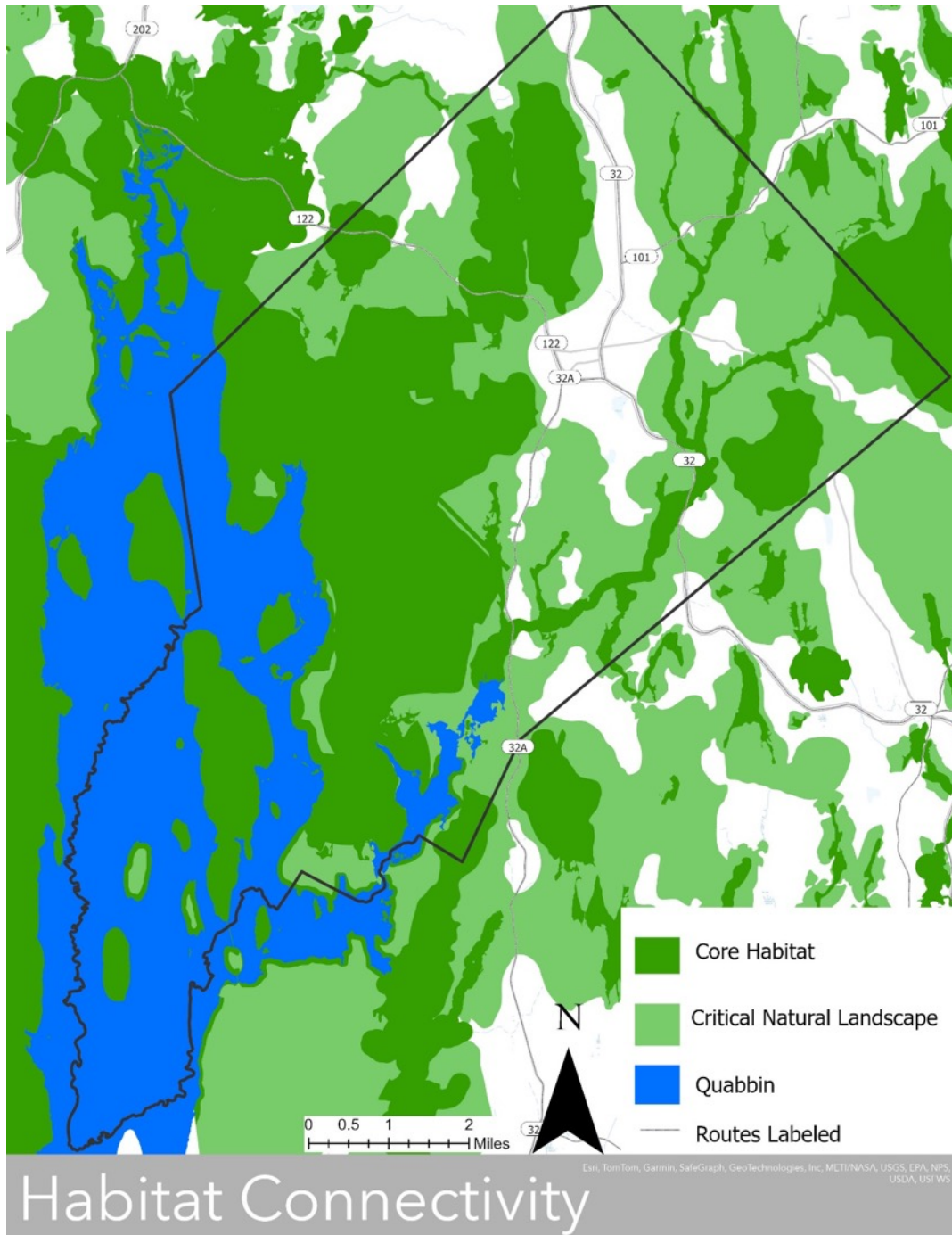
Even though Petersham has put over 70% of its land into protection in perpetuity, critical habitat areas remain unprotected. BioMap areas are not regulated. BioMap core areas are considered critical to the long-term persistence of Species of Special Concern, exemplary natural communities, and intact ecosystems. Critical Natural Landscape areas are those that are able to support a diversity of species, habitats, ecological processes and disturbance regimes. Both are critical to Petersham’s ecological health and long-term resilience. Sources: MassGIS Data Layers: Protected and Recreational Open Space, Town Assessor’s Data, BioMap, MASSDOT Roads, Quabbin Reservoir Bathymetry

Map 4-11: NHESP Estimated and Priority Habitats



Both NHESP Priority and Estimated Habitats areas are regulated by the state. NHESP Priority Habitats are areas known to support state listed rare plant and animal species and they are protected from habitat alteration under MESA. Estimated Habitat areas are a subset of Priority Habitats that specify areas of state-listed rare wetlands wildlife, but do not protect plants. Many of these areas critical for the health of rare wildlife are only partially protected. Also, although areas on Harvard Forest parcels are currently well stewarded and protected by the institution, they are not protected in perpetuity. Sources: Mass GIS Data Layers: Protected and Recreational Open Space, Town Assessor’s data NHESP Estimated Habitats, NHESP Priority Habitats, BioMap, MASSDOT Roads, Quabbin Reservoir Bathymetry.

Map 4-12: Habitat Connectivity



Petersham’s large blocks of minimally developed areas provide excellent connected habitat, particularly to the west approaching the Quabbin. The town center and Route 32 are the major fragmentation areas in town that bisect otherwise relatively contiguous habitat. Development outside of these areas could significantly impact the health and quality of ecological systems in town. Sources: Mass GIS Data Layers: MASSDOT Roads, NHESP Core Habitat, NHESP Critical Natural Landscape, Quabbin Reservoir Bathymetry.

F. Scenic Resources and Unique Environments

Landscapes

Scenic resources and unique environments are landscape features that help define a community's character and visual appearance. Petersham has numerous such landscape features. Most people observe Petersham's scenic beauty as they drive, bike or walk along the town's roads or use the many trails, virtually all of which (except for the state highways) have been designated as Scenic Roads under the Town's scenic roads provision (see Map 4-4).

Open fields and farmland are among the most beautiful landscape features in Petersham. These areas offer a window into Petersham's agricultural past, and in many cases also provide sweeping vistas of the surrounding hills. The most extensive open fields are along East Street and especially on Maple Lane. Other notable open lands are located on North Main Street, off Nichewaug Road, and at the North Common Meadow in the town center. Open landscapes are increasingly rare in Petersham and are continually at risk of growing up to become forests if they are not mowed or grazed. Once these landscapes revert to forest, it is rarely economically feasible to return them to farmland again. The Conservation Commission has been very supportive of pasture reclamation.

Petersham has a wide variety of beautiful, wooded landscapes laced with brooks and streams. The Swift River Reservation and the area around Connor Pond are among the most gorgeous of these. Petersham's landscape is fairly hilly and offers several beautiful hilltop vantages. For example, panoramic views of the Quabbin Reservoir can be enjoyed from the top of Soapstone Hill in the Federated Women's Club State Forest.

Special Geologic Feature – Soapstone Hill

Soapstone Hill, as its name indicates, is a notable geologic feature of the town for its metamorphic rock deposits of steatite or soapstone, which were located at the base of the north and south sides of the hill. Soapstone, which formed between 300-400 million years ago, is composed primarily of talc, which gives it its "dry bar-of-soap" feel. Soapstone is relatively soft and easy to carve when freshly quarried, very dense, nonporous, nonabsorbent, resistant to acids and alkalis, and is highly heat retentive. Soapstone Hill was quarried in prehistoric times by native peoples who carved it into vessels, slabs, and other forms for cooking, ceremonial uses, and possibly for trade. Colonial settlers worked soapstone into practical household items including bed-warming slabs to keep them warm. In the mid-19th century, Soapstone Hill was commercially quarried for several years for household sinks, stoves, slabs, and shelves. When interest in soapstone diminished, it was ground for roofing talc. Eventually the soapstone deposits were completely depleted.

Cultural, Archaeological, and Historic Areas

The Petersham Historic District, which is listed on the National Register of Historic Places, extends along from the northern end of North Street and along Route 32 to Barre Road (Route 122) in the south, and along the full length and both sides of the Common. The district includes 32 homes and fourteen properties, many of which date from the early nineteenth-century. The

district was designated as a Local Historic District in 1966—one of the first historic districts in Massachusetts. In 1982, it was expanded and listed on the National Register.

Notable buildings within the Petersham Historic District include the Country Store, Petersham Memorial Library, Sims Property, Brooks Law Office, Winterwood at Petersham, and the Petersham Craft Center. Buildings within the district date from 1735 to 1899 and include a variety of architectural styles such as Greek Revival, Colonial, Georgian, Federal, and Victorian. In addition to the historic buildings, key properties in the district include the town common, North Cemetery, and North Common Meadow.

Six buildings in Petersham are listed individually on the National Register of Historic Places: Gay Farm on Gay Drive off Nichewaung Road; the Holland Towne House on Ward Hill Road off Route 32; the Petersham Craft Center at 8 North Main Street; the Prescott Town House on Route 3; and two schoolhouses on East Street, District 4 (Ledgeville) and District 5 (Second East). The Town's landscape, of course, is one of its most important historic resources. Stone walls, cellar holes, and other remnants of early farmstead life may be found throughout the Town, although some of these artifacts have been obscured and blended into the natural landscape with the passage of time. The Town also has eleven cemeteries, eight of which are historic cemeteries no longer in use.



Center Cemetery.

Cultural and recreational amenities in Petersham are many and varied including the Petersham Art Center, the Historical Society with its museum, the Petersham Memorial Library, the Petersham Curling Club, the Fisher Museum at Harvard Forest, the Petersham Gun Club, and Town Hall. Town Hall is a venue for many meetings and activities including an annual antiques

show, crafts show, and Halloween event sponsored by organizations such as the American Legion, Grange, Lions Club, and Petersham Cultural Council. The three town churches also serve as meeting areas for local organizations and are venues for music, holiday fairs, movie nights, and game nights. The Town Common is a venue for the Friday Farmers' Market with music concerts, a summer music series performed by the town's brass band, Memorial Day ceremonies, 4th of July parades, and other seasonal events and activities.

Special Places in Petersham

Compiled January 2004 by Conservation Commission, Historical Society, and town residents.

- 1 scenic / Tumbledown Hill - Brooks Woodland Preserve Parcel No. 288
- 2 aquatic / Cardinal Brook at old mill wall Parcel No. 440
- 3 aquatic / East Branch Swift River system
- 4 natural / geologic / Drumlin - North of East Street just east of Quaker Drive Parcel No. 407
- 5 aquatic / Sputtermill Brook East of Monson Turnpike
- 6 open space / Orchard and corn field on Quaker Drive Parcel No. 293
- 7 aquatic / Beaver pond on East Branch Fever Brook "Phillips Swamp" Parcel No. 658 & 660
- 8 scenic / View from top of hay field at north end of Harty Drive Parcel No. 432
- 9 open space / Open field south of East Street opposite Maple Lane Parcel No. 353 & 355
- 10 natural / geologic / Strawberry Rock (glacial erratic) Parcel No. 695?
- 11 aquatic / Carter Pond Parcel No. 199
- 12 aquatic / Moccasin Brook River system
- 13 open space / North Common Meadow Parcel No. 377
- 14 aquatic / Connor's Pond Parcel No. 299
- 15 scenic / Sherman Hill Parcel No. 320
- 16 aquatic / Brown's Pond and Mill site Parcel No. 363 & 364
- 17 open space / Nichewaug Inn open space site (structures demolished 2022)
- 18 open space / Open fields along North Main Street
- 19 scenic/ geologic / Soapstone Hill Quabbin Reservation
- 20 aquatic / Davenport Pond Parcel No. 504
- 21 historic / The Common Parcel No. 001 & 050
- 22 aquatic / Popple Camp Brook and headwaters Northeast portion
- 23 historic / Poor Farm Road (foot path) east of North Main Street
- 24 scenic / Glen Valley Road, Nichewaug
- 25 scenic / Quaker Drive - East Street to Barre Road
- 26 scenic / Maple Lane north of East Street
- 27 scenic / Oliver Street South part First Flat Iron
- 28 natural / Trail east of Bald Hill Parcel No. 674 & 676
- 29 historic / School District No. 1 - Central Parcel No. 026
- 30 historic / School District No. 2 - North or Bell (site) Parcel No. 543
- 31* historic / School District No. 3 - Second North (site) Parcel No. 487 & 519
- 32 historic / School District No. 4 - First East or Ledgeville Parcel No. 405
- 33 historic / School District No. 5 - Second East Parcel No. 417
- 34 historic / School District No. 6 - First South (site) Parcel No. 149
- 35 historic / School District No. 7 - Second South or Factory Village (site) Parcel No. 176
- 36 historic / School District No. 8 - Second West (site) Parcel No. 630
- 37 historic / School District No. 9 - First West (site) Parcel No. 667

- 38 historic / School District No. 10 - Northwest (site) Parcel No. 607
- 39 historic / School District No. 11 - Northeast or Popple Camp (site) Parcel No. 458.2
- 40 historic / School District No. 12 - Southeast (site) Parcel No. 306
- 41 historic / School District No. 13 - Southwest (site) Parcel No. 713
- 42 historic / Old Petersham Center School or Petersham High School Parcel No. 098
- 43 historic / East Street Cemetery Parcel No. 370
- 44 historic / The Indian Cemetery Parcel No. 425
- 45 historic / West Road Cemetery Parcel No. 698
- 46 historic / Center or Village Cemetery Parcel No. 024
- 47 historic / North or Mann Cemetery Parcel No. 483
- 48 historic / Ledgeville, Second East, or Gates Cemetery Parcel No. 357
- 49 historic / Coolidge/Goddard or Hardwick Road Cemetery Parcel No. 137
- 50 historic / Nichewaug or Second South Cemetery Parcel No. 171
- 51 historic / Flat Rock Road or Northwest Cemetery Parcel No. 600
- 52 historic / Poor Farm Burial Plot Parcel No. 471
- 53 historic / Howe Family Plot (private) - Maple Lane Parcel No. 440
- 54 historic / Lincoln Cemetery (site) - south of Meadow Water Parcel No. 684
- 55 historic / "Indian Caves" - Glasheen Road Parcel No. 410
- 56 historic / Stone Water Trough - Old New Salem Road Parcel No. 568
- 57 historic / Stone Water Trough - east end Ward Hill Road East end Ward Hill Rd.
- 58 historic / Babbitt house (James Baird) - Gay Drive Parcel No. 150.1
- 59 historic / Negus cellar hole Parcel No. 148
- 60 natural / "Boiling Spring" - Lewis and Corinne Babbitt Wildlife Sanctuary Parcel No. 150
- 61 natural / Quabbin Reservation
- 62 natural / geologic / Kettle holes west of gate 41, Quabbin Reservation
- 63 aquatic / "Cinderella Steps" - Roaring Brook - north of East Street Parcel No. 384
- 64 scenic / View of Mt. Monadnock from north end of Maple Lane Parcel No. 440
- 65 scenic / Slab City Parcel No. 239
- 66 historic / Mill site on Swift River downstream from the Carruth Road Parcel No. 219
- 67 historic / Mill site on East Branch Fever Brook south of Route 122 Parcel No. 684
- 68 historic / Mill site on East Branch Fever Brook east of Camel's Hump Road Parcel No. 699
- 69 historic / Mill site on East Branch Fever Brook - Doubleday Village, Quabbin Reservation
- 70 historic / Steam Powered mill site on northwest side of Meadow Water Parcel No. 572
- 71 historic / Parlin's Mill site on Swift River - Factory Village - Nichewaug Parcel No. 178
- 72 natural / Harvard Pond/Tom Swamp Tract Parcel No. 583
- 73 natural / Black Rock Parcel No. 282
- 74 natural / geologic / Choate Ledges - Nichewaug Tract - Swift River Reservation Parcel No. 232
- 75 natural / geologic / Rocky hillside on Woodward Road Parcel No. 192.2 & 192.3
- 76 natural / East side Camel Hump Hill Parcel No. 700
- 77 historic / "Petrified Man" Tomb - Carter Pond Road Parcel No. 194
- 78 historic / Lion's Den Parcel No. 181
- 79 historic / Woodward Cemetery (site) - Dana Road (Gt. 40) Parcel No. 726
- 80 historic / Peter Gore's Spring - Popple Camp Road Parcel No. 451
- * 2 locations School District No. 3 - Second North (site)

G. Environmental Challenges

Because Petersham is not heavily developed and does not have a history of major industry, it is fortunate to have escaped many of the environmental problems that plague other New England communities. Nevertheless, there have been a couple of environmental problems worth noting.

The first problem pertains to the treatment and disposal of wastewater in the town center, where the low permeability of soils (see Map 4-1, Table 4-1) has led to problems associated with malfunctioning on-site wastewater systems. Septic problems have been addressed through individual system upgrades and installation of a special septic system at The Country Store.

A more general potential concern in Petersham—as in every community—is nonpoint-source pollution (NSP). This issue is of special importance within the Quabbin watershed, where water-borne pollutants may enter the water supply. NSP refers to pollution generated by modern human activities in the landscape, rather than pollution emanating from a specific outfall pipe. Common sources of NSP include road salt, septic systems, runoff from paved surfaces, animal wastes such as dogs along trails, residential lawn chemical and fertilizer use, and the runoff produced from agricultural fertilizer, pesticide, herbicide, and livestock waste.

Most roads in Petersham are paved, and in town center and along Routes 122, 32, and 32A there is a stormwater system of just over one hundred catch basins and drop inlets. Storm drains are possible vectors of concentrated NSPs in the form of de-icing agents and other road surface contaminants from automobiles.

The town's Highway Department yard is located adjacent to wetlands; however, the sand that is mixed with salt is kept in a covered shed. It is unclear if the adjacent wetlands are consistently monitored for salinity or other pollutants.

The NSP impact of new development is greatly influenced by the style and layout of the development. For example, providing narrower roadways, managing stormwater with vegetated swales and filters, and retaining native vegetation rather than replacing it with large lawns are all ways to reduce the NSP impact of new development. However, the town does not currently have any development bylaws or private homeowner outreach around best management practices to address NSP impacts in town.

There are no known hazardous waste sites in Petersham. According to the 2014 OSRP, the former landfill was closed and monitored for a few years. Toxic materials were not found, and the site has become the town Transfer Station.

Petersham has not historically had erosion or flooding issues as the soils are not susceptible to erosion, and most structures are built on upland areas not prone to flooding (see Map 4-7). However, according to the Conservation Commission, sedimentation accumulation along roadsides and along stream and river channels is becoming more of a problem as debris flow increases with climate-change-induced increases in precipitation and storm severity. Maintaining forest and other vegetative covers along roadsides and encouraging best management practices for agriculture, forestry, and development sectors could potentially reduce sedimentation accumulation issues.

Petersham is a rural community with few roads, large areas of connected forest, much of which is protected in perpetuity from development. Harvard Forest's world class forest management

and ecological research in town gives Petersham a unique resource for ecological knowledge within town and contributes to the community's strong sense of pride in habitat stewardship. However, suburban sprawl along roads is a present threat to the contiguity of and access to open space in town. According to the Petersham Building Inspector's Annual Reports there were 17 new building permits in fiscal year 2022, which is a marked increase over the prior years. There is a distinct possibility that there will be more desire for housing development in town. Continued development along main roads could further fragment wildlife habitat, suburbanize the rural character of the town, and decrease access to nature-based recreational pursuits (for a full discussion of these issues see Sections 3D, 4B, and 4E, and Maps 3-8, 3-9, 4-4, and 4-12).

Local forests are also a valuable source of cordwood and sawtimber, and forestry remains important to the rural identity of the town. However, forestry issues such as cutting too close to wetlands and wetland buffers, and the negative effects of compaction induced by logging operations with heavy equipment on saturated soils are concerns. Due to the sensitivity of the Quabbin Reservoir Watershed, the DCR Service Foresters have worked with the town and private landholders to manage these issues, as well as the Petersham Conservation Commission (SWAP). The Conservation Commission is currently working on a local wetlands bylaw that could address forestry operations adjacent to wetlands, but there are currently no actions being taken to address soil compaction in town.

Invasive species are an issue that community members have voiced concern about. Invasive insect species present in the town that are of concern include the Hemlock Woolly Adelgid, Emerald Ash Borer, Spongy Moth, and more recently the nematode *Litylenchus creatae mccanni*, the cause of lethal Beech Leaf Disease (BLD). As in many communities in New England, the Emerald Ash Borer has significantly reduced ash tree population in town, and the Hemlock Woolly Adelgid is continuing to devastate the hemlocks with little chance of recovery. According to DCR's Bureau of Forest Fire Control and Forestry, the first detection of BLD in Massachusetts was in June 2020 in the town of Plymouth (Plymouth County). Symptomatic trees have since been found in all Massachusetts Counties. As of July 2022, BLD had been confirmed in 83 communities in Massachusetts. The full impacts of the decline in recent decades of these three trees on the forest ecology are unclear, but studies on the loss of hemlock, a key species throughout New England, are showing impacts on hydrology, nutrient cycling, and litter decomposition rates (Kim et al.) (Orwig et al.). Currently there are no treatments viable at the forest scale to address Hemlock Woolly Adelgid, Emerald Ash Borer, or BLD.

Vegetative species present in Petersham that are listed by the state as invasive include garlic mustard, Japanese knotweed, multiflora rose, Japanese barberry, burning bush, and Oriental bittersweet, among others. The Conservation Commission has studied the issue of the spread of Japanese knotweed in the town and gave an informational presentation at the Grange. The Commission found that Japanese knotweed is growing in three out of four town highway sites for holding gravel, sand, and organic debris, and are a likely vector for spreading the species around town when these resources are used to repair both paved and unpaved roads. Additionally, flail mowing of Japanese knotweed as a roadside management technique has the potential of distributing live plant segments and rhizomes. Distribution of viable plant segments and rhizomes is likely occurring through disturbance along roadsides and development sites in town. The Commission identified as many as 31 roads where Japanese Knotweed was growing and identified an additional 12 roads to be checked for the weed.

Knotweed management strategies encouraged by the Conservation Commission include the cessation of flail mowing, disturbance of existing stands, and use of contaminated fill, as well as reducing existing stands by repeated cutting and solarization of cut vegetation and professional remediation of knotweed in contaminated fill and dump sites. The suggestion was also made to construct an open hoop house on South Street for community solarizing of knotweed cuttings.

These strategies would not only go a long way to remediate the spread of knotweed throughout town but could also potentially be used to address the many other invasive species present. While it is likely unfeasible to completely eradicate these species, addressing their main vectors of distribution and generating a strategic, long term maintenance plan for concerned residents to rally around is critical to addressing the issue and maintaining Petersham’s biodiversity.



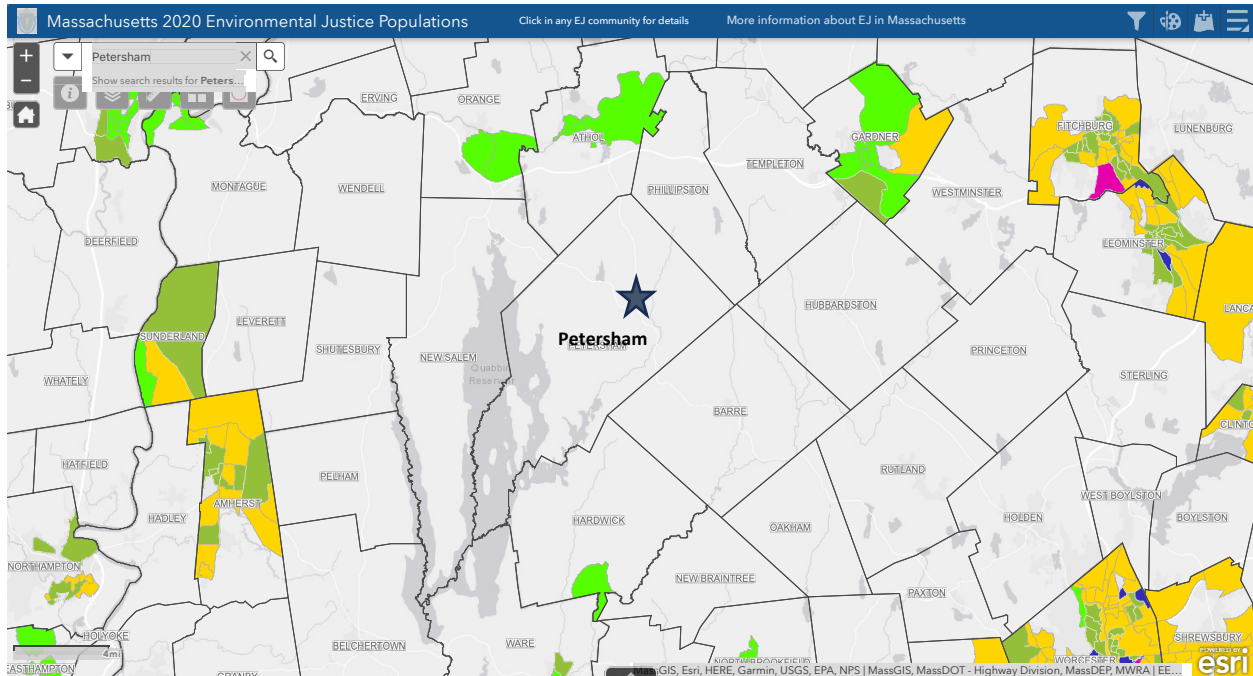
Petersham community members test out the viability of biochar as a component of a multi-pronged Japanese knotweed control strategy.



Environmental Equity

The screenshot of the Massachusetts Environmental Justice Viewer (Figure 5-1) indicates that Petersham is a majority white population with no concentrated areas of inequity and no designated Environmental Justice populations. These data were obtained from <https://www.mass.gov/info-details/massgis-data-2020-environmental-justice-populations>.

Figure 5-1: Massachusetts 2020 Environmental Justice Populations



This map is based on US Census Bureau data released in October 2021 and March 2022, and was updated on November 12, 2022.

With over 70% of its land in permanent conservation, Petersham has abundant open space well distributed throughout the town for passive recreation including walking, hiking, and interacting with nature. Although Petersham does not have a town recreation department or commission, local volunteers manage to provide several active recreation opportunities. Petersham does not have public parks per se. The Town Common serves as the central park for a variety of community events, celebrations, and passive recreation. Nearly all the active recreation facilities in Petersham are located at the Center School, which is located near the center of town. These include a playground, little league field, softball field, soccer field, and indoor gymnasium that is used for basketball, volleyball, and pickleball. The Town Hall's large and accessible ground floor space is used for yoga classes and ping-pong, among other things. The Petersham Curling Club located in the north of town has two sheets of dedicated ice for curling. The club is a volunteer-run organization with annual membership and rental fees with members throughout Massachusetts and northern New England. There is no outdoor skating rink in town, but volunteers maintain access to pond skating, hockey, and a rustic version of curling on Harvard Pond in the winters that provide the ice. The Petersham Gun Club just north of the Curling Club is also run by volunteers and is open to members and their guests seven days a week year-round.

The club offers shooting ranges, sporting clays, trap shooting, archery, fishing, and a clubhouse venue for dinners, parties, and special events. There are no public swimming holes or pools in Petersham, but the YMCA in nearby Athol offers an indoor pool plus other indoor sports and recreation facilities within a short drive.

While walking and hiking are the most popular recreational activities for residents and visitors alike, respondents to the 2023 survey and participants at the public forums also indicated desires for increased trail connectivity within town and to trails outside of town, improved accessibility for individuals with impaired mobility, improved sidewalks in the center of town, safer interactions with traffic, and increased awareness and accessibility to the trail systems. While many of the trails in Petersham are mapped by the managers of the individual properties, there is no comprehensive town-wide trails map and guide for hiking and other trail activities. Some residents also expressed concerns about perceptions of trails as having a non-welcoming or unsafe appearance, especially for individuals who identify as BIPOC or female. It is possible that making public trail heads more obvious, increasing accessibility and signage, and better trail maintenance could help to change these perceptions. Residents expressed their desires for improving relationships between the Nipmuc people and the Town of Petersham. Following the pandemic, residents also shared a recurring suggestion for a centrally located pavilion, which might serve a valuable function for bringing people together. Please see Section 7. Analysis of Needs for additional information.

Section 5 Inventory of Lands of Conservation and Recreation Interest



Moccasin Brook.

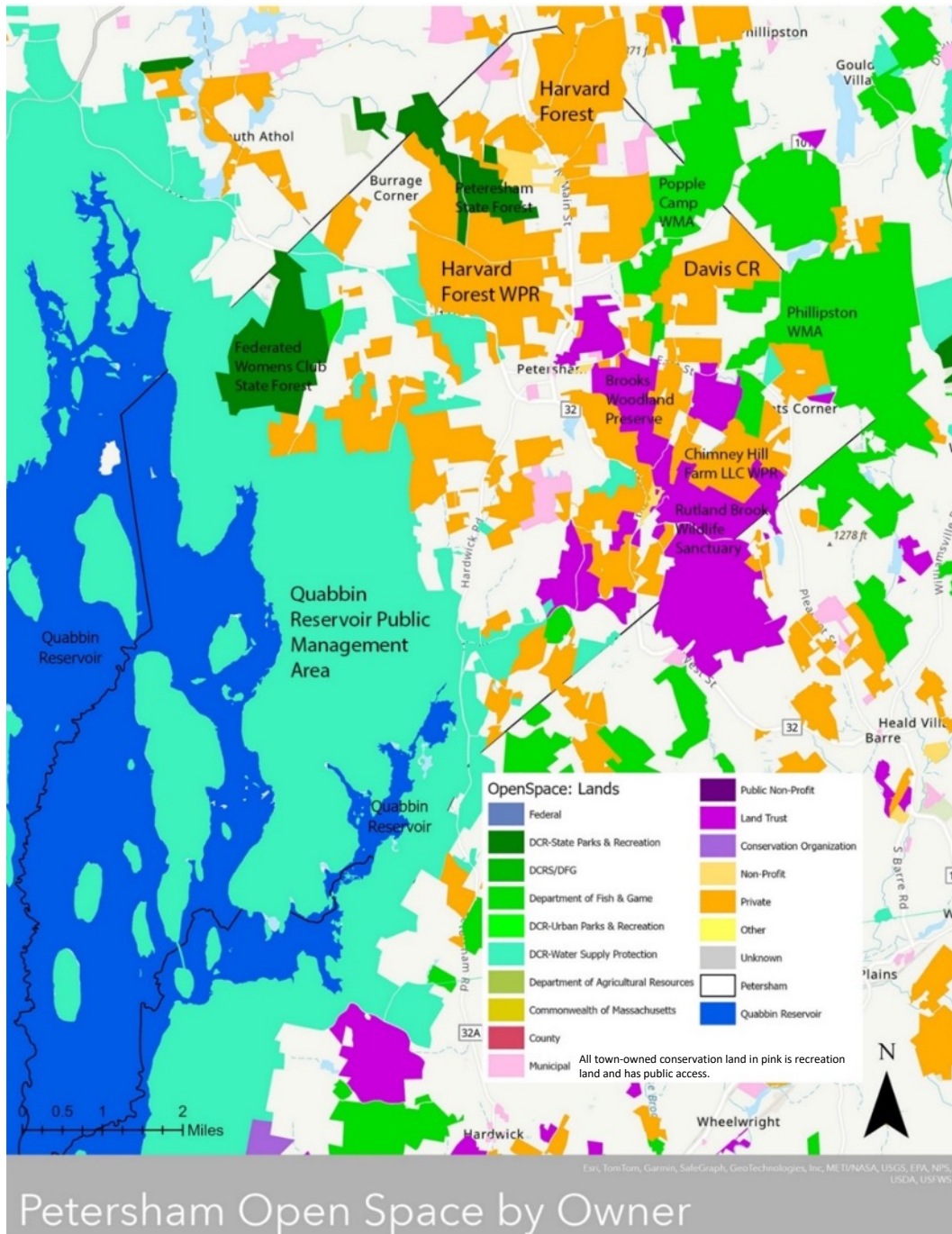
What is open space? According to the Commonwealth of Massachusetts, open space is land that is permanently protected from development through deed restriction or conservation easement, or land that is not permanently protected but is used for farming, forestry, or recreation. Open space also refers to land that is not permanently protected or used for farming, forestry, or recreation, but is nonetheless still important for conservation or recreation. By this definition, Petersham is largely open space. There are 24,757 acres of open space in permanent conservation, which is 70.4% of the town's total 35,123 land acres excluding the Quabbin Reservoir (8,552 acres under water).

A large swath of open space next to the Quabbin Reservoir is owned by the Massachusetts Department of Conservation and Recreation for Water Supply Protection. There are also privately and municipally owned open space parcels in town, as well as open space land owned by land trusts, the State Division of Parks and Recreation, and the Department of Fish and Game.

The large amount of conservation land in Petersham protects the Quabbin Reservoir Watershed. Within the forested buffer adjacent to the Quabbin Reservoir rare plant and wildlife species thrive, and the intact forest contributes to one of the largest areas of contiguous forest in New England. Petersham is also home to wetlands and vernal pools, but the sheer amount of forestland is the town's greatest ecological asset. Petersham's conserved lands play a vital role in ecosystem function across the state and the region; unfragmented forests allow for large wildlife corridors and provide critical habitat. Petersham residents value this conservation function of their town, as well as the outdoor recreation opportunities, rural character, and scenic views that their open space lands provide.

Petersham's open space areas have been identified using data gathered from MassGIS, the Petersham Assessor's Office, and other sources. These areas are categorized based on ownership and the degree of protection they receive, as outlined in Tables 5-1, 5-2, and 5-3. For instance, properties owned by the Department of Conservation and Recreation or subject to conservation restrictions face legal limitations preventing their development. Conversely, lands owned by the Town of Petersham, not explicitly designated for conservation, may be developed by the Town itself or sold to other parties for potential development. The subsequent narrative offers insights into some of the town's prominent public and private open space lands; language in the parcel descriptions is largely drawn from the 2014 Petersham OSRP.

Map 5-1: Open Space by Owner



The large DCR-owned Water Supply Protection conservation area (turquoise) adjacent to the Quabbin Reservoir forms the basis of the forested landscape that Petersham is known for and that is integral to its rural character and outdoor recreation opportunities. Private conservation lands, such as those owned by Harvard Forest, add to the benefit of the DCR land by keeping parts of those forests intact in the center and northwestern parts of town. In the southeast, conservation lands owned by land trusts form a cluster of wildlife preserves and sanctuaries, increasing intact plant and wildlife habitat that contributes to the environmental health of the region and the state. Sources: MassGIS Data: Protected and Recreational OpenSpace, MassGIS Census Towns, MassDEP Hydrography (1:25,000)

A. Private and Nonprofit Parcels

Petersham stands out due to the significant number of nonprofit organizations that either own land or actively engage in land conservation efforts within the town. These organizations include The Trustees of Reservations, Massachusetts Audubon Society, Harvard Forest, the East Quabbin Land Trust, and the Mount Grace Land Conservation Trust. Their involvement in Petersham generally stems from their recognition of the town's open spaces as crucial for advancing their respective missions. These missions may involve safeguarding wildlife populations, preserving and connecting habitats and agricultural lands, or protecting the most remarkable landscapes in Massachusetts. The descriptions below delve into the major private open space holdings in Petersham.

Brooks Woodland Preserve: *protected in perpetuity, public access*, owned by The Trustees of Reservations, contains 558 acres of undisturbed forest, including red oaks, hemlocks, and white pine, which are being restored to the state they were in before colonial settlement, to the extent that that is possible. Hiking and cross-country skiing are allowed on the trails, and some fields that were once farmland have been maintained as fields within the forest. Swift River, Moccasin Brook, and Roaring Brook run through the property and beavers actively dam these streams, creating ponds throughout the preserve.

North Common Meadow: *protected in perpetuity, limited public access*, owned by The Trustees of Reservations, contains 25 acres located adjacent to the Brooks Woodland Preserve and across North Main Street from the town common. The meadow was once pastureland and, later, part of a golf course for the Nichewaug Inn. The lower meadow has a small pond covered in lilies and is full of wildflowers in the spring, while the upper meadow produces hay that is cut by a local farmer. Visitors standing next to the Petersham Historical Society building on North Main Street get a magnificent view of Mount Wachusett to the east.

Swift River Reservation: *protected in perpetuity, limited public access*, owned by The Trustees of Reservations, contains 439 acres, and includes three tracts (the Nichewaug, Davis, and Slab City tracts), which are linked together by the East Branch of the Swift River. In the late 18th century, much of the Reservation was cleared for small-scale agriculture, subsistence livestock grazing, and firewood collection. These activities, combined with local industries such as saw and woolen mills, a box company, a tannery, and a hat company, put a heavy burden on natural resources in the area. Some reclaimed fields in the Slab City tract recreate the open fields that were there around 1890. When the farms were abandoned in the early 20th century, the forest returned but was again decimated by a hurricane in 1938. The white pines and mixed hardwood forests there today date back to after the hurricane. The Nichewaug Tract includes extensive rocky ledges, ravines, open fields, a beaver-dammed swamp, vernal pools, riparian habitat, and rich ecotones along the forest edge. There are a few public hiking trails on the reservation.

Rutland Brook Sanctuary: *protected in perpetuity, public access*, owned by the Massachusetts Audubon Society, contains over 1,500 acres that extends into the town of Barre. There are 690 acres of the Sanctuary in Petersham, forming a continuous green belt that stretches from the North Common Meadow, through the Brooks Woodland Preserve and into Barre. Managed as a wildlife sanctuary, the property is open to the public but lacks advertised trails (there are

two–Sherman Hill Loop and Loring Hill Road–according to the Montachusett Regional Planning Commission).

Harvard Forest: *No protection or protected in perpetuity, limited public access*, owned by Harvard University, contains over 3,000 acres that are open to the public. Harvard Forest is a world-renowned research and education center for ecology, environmental science, and forest management and conservation. Research aims to understand historical, current, and future changes to New England’s forests due to human influence and natural disturbance. There are two popular self-guided nature trails in Harvard Forest lands: the Natural History Trail through John Sanderson’s Farm and the Black Gum Trail. Though widely considered conserved land, most of Harvard Forests’ parcels are not legally protected and could be sold or developed in the future. However, there are conservation restrictions (CRs) on a number of its parcels including a portion of the Slab City Tract, the Gould Woodlot, and the Bryant Woodlot. The Tom Swamp WPR is the largest of Harvard Forest's CRs.

CR lands: *protected (duration depends on deed), access depends on deed*. Conservation restrictions (CRs) are legally binding agreements that dictate the permissible uses of land for a specified period, sometimes indefinitely. The CRs outlined in this plan include permanent restrictions aimed at preventing further development on private lands, safeguarding over 2,000 acres of Petersham. Typically, CRs result from mutual agreements between the grantor (the landowner) and the grantee (often a state agency such as the DCR Office of Watershed Management or a nonprofit conservation organization). The DCR Office of Watershed Management, for instance, administers 27 Watershed Protection Restrictions in Petersham, covering 1,611 acres. Landowners typically receive compensation in return for placing the CR on their land. These CRs are dispersed throughout the town, with many landowners continuing to reside on or near the property or engaging in farming or logging activities.

Some notable CRs:

Petersham Country Club CR, *protected in perpetuity, limited public access*, former golf course that was purchased by Harvard Forest in 2015.

St Mary and St Scholastica CR, *protected in perpetuity, limited public access*, owned by St Mary and St Scholastica Church Inc.

Gross Farm CR, *protected in perpetuity, limited public access*, owned by Rice’s Roots, LLC. A working farm that has a conservation restriction.

Two-mile Landbridge CR, *protected in perpetuity, limited public access*, allows for "non-commercial, non-motorized" public access for hiking, cross-country skiing, and fishing. Also enrolled in Chapter 61 and 61A.

Watershed Preservation Restriction (WPR) land, *protected in perpetuity, limited or no public access*. A WPR is a voluntary legal agreement between the Division of Water Supply Protection (DWSP) of DCR and a private landowner that permanently protects open space by restricting development and limiting certain uses to help protect water quality.

Chimney Hill Farm LLC WPR, *protected in perpetuity, limited public access*, a working farm that allows passive recreation access to one trail called the "Susan Hall Beard Memorial Trail," which connects to Mass Audubon's Rutland Brook Wildlife Sanctuary trails.

Table 5-1: Private and Nonprofit Parcels

Owner Type	Type of Protection
P = Private	WPR = Watershed Preservation Restriction
L = Land Trust	CR = Conservation Restriction
N = Nonprofit	

Site Name	Owner Type	Type of Protection	Acres
Anderson WPR	P	WPR	13.33
Baird & Howell WPR	P	WPR	32.45
Bassets Corner Conservation Area	L	CR	19.13
Brooks Woodland Preserve	L		696.08
Brooks Woodland Preserve CR	P	CR	21.83
Bryant WPR	P	WPR	77.25
Buell WPR	P	WPR	25.59
Butterworth WPR	P	WPR	93.85
Caouette 2 WPR	P	WPR	32.94
Caouette WPR	P	WPR	34.18
Carter Pond WCR	P	CR	107.28
Carter Road CR	P	CR	18.49
Carter Road CR	P	CR	82.75
Casey/Wilder CR	P	CR	7.22
Chimney Hill Farm LLC WPR	P	WPR	587.54
Chivian & Jacobson WPR	P	WPR	17.39
Clark & Scoufopoulos 2 WPR	P	WPR	18.87
Clark & Scoufopoulos WPR	P	WPR	26.53
Clark WPR	P	WPR	173.26
Coe WPR	P	WPR	45.62
Connor Pond	N		30.48
Coolidge WPR	P	WPR	38.56
Coolidge WPR	P	WPR	134.49
Davis CR	P	CR	672.65
Day & Smith & Brannon WPR	P	WPR	9.95
Day & Smith & Brannon WPR	P	WPR	20.74
Day Family Trust WPR	P	WPR	9.50
Dickson WPR	P	WPR	55.16
Ewing WPR	P	WPR	80.90
Feldman CR	P	CR	103.95
Finneran-DeBarbieri WPR	P	WPR	5.46
Finneran-DeBarbieri WPR	P	WPR	5.86
Flye CR	P	CR	19.96

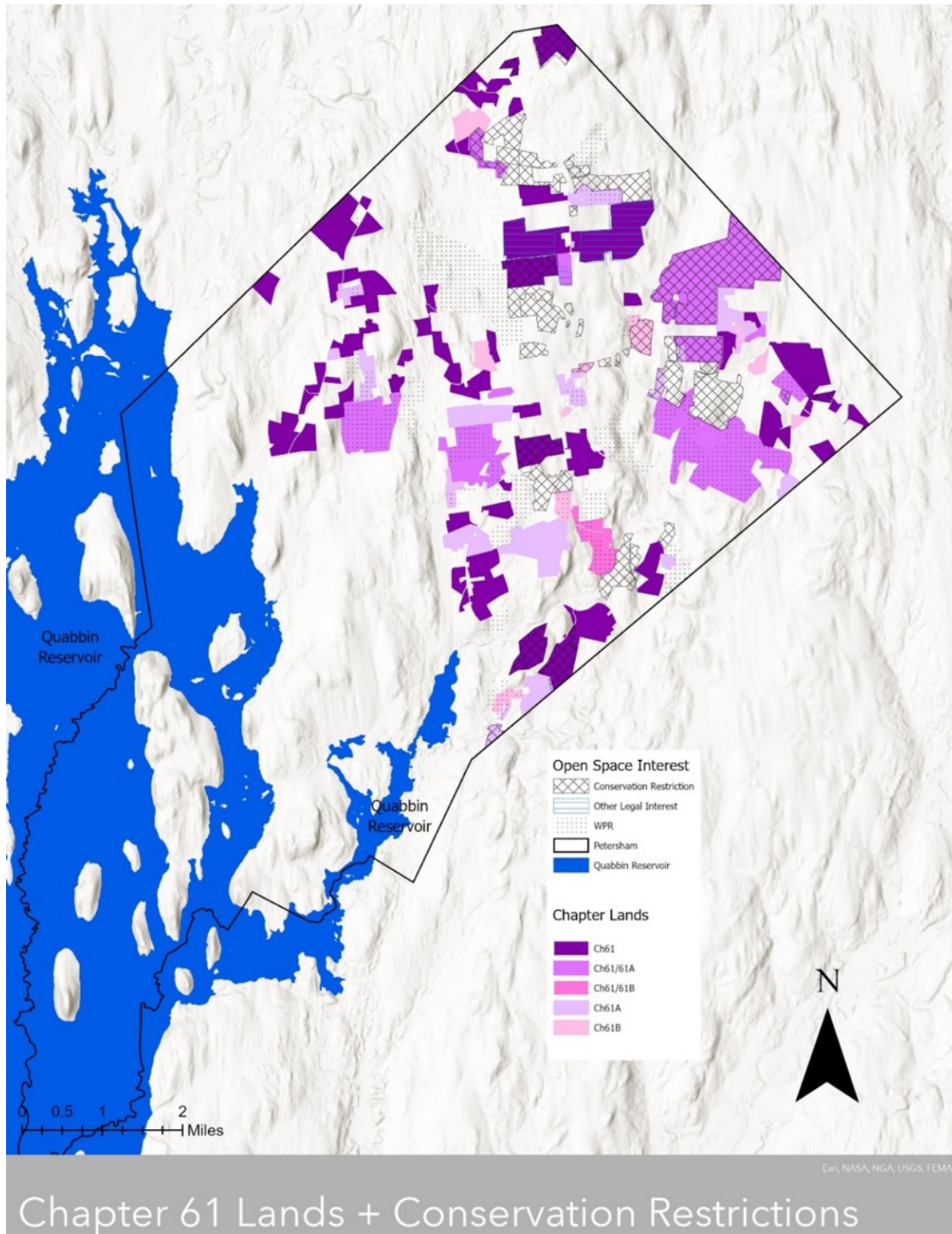
Foye 1 WPR	P	WPR	56.04
Foye 1 WPR	P	WPR	96.61
Gross Farm	L	CR	234.10
Harvard Forest	P		1,353.37
Harvard Forest	P	CR	88.06
Harvard Forest	P		308.97
Harvard Forest 2 WPR	P	WPR	647.85
Harvard Forest CR	P	CR	104.57
Harvard Forest CR	P	CR	22.23
Harvard Forest WPR	P	WPR	119.53
Hellen WPR	P	WPR	12.58
Hellen WPR	P	WPR	2.75
Hutchinson & Jule WPR	P	WPR	148.47
JB & T Family Limited Partnership WPR	P	WPR	36.68
Johnson CR	P	CR	97.47
Johnson CR	P	CR	111.35
Johnson CR	P	CR	22.72
King Farm CR	P	CR	101.57
Lee/Briggs Lot CR	P	CR	55.44
Levine & Palin WPR	P	WPR	42.70
Lockesmith CR	P	CR	7.48
Lockesmith WPR	P	WPR	20.45
Lockesmith WPR	P	WPR	23.14
Lockhart & Block WPR	P	WPR	73.87
Lundquist 2 WPR	P	WPR	14.17
Lundquist 3 WPR	P	WPR	23.40
Meixsell WPR	P	WPR	6.13
Mountain Bay Foundation WPR	P	WPR	7.58
North Common Meadow	L		23.16
North Common Meadow	L		2.21
Papoyan and Bisharyan WPR	P	WPR	40.05
Petersham Country Club	P		14.76
Petersham Country Club CR	P	CR	175.15
Petersham Land Conservation Trust CR	N	CR	11.21
Petersham Rod and Gun Club	P		47.53
Petersham Rod and Gun Club	P		23.66
Petrie WPR	P	WPR	32.68
Pope WPR	P	WPR	26.85
Raccoon Hill WCR	P	CR	20.23
Ricard WPR	P	WPR	59.57
Rubin WPR	P	WPR	85.44
Rutland Brook Wildlife Sanctuary	L	WPR	84.26
Rutland Brook Wildlife Sanctuary	L		620.82

Selden 2 WPR	P	WPR	19.92
Selden 3 WPR	P	WPR	84.27
Selden 3 WPR	P	WPR	18.22
Selden WPR	P	WPR	242.92
Selden WPR	P	WPR	22.54
Sinclair CR	P	CR	23.72
St Mary and St Scholastica CR	N	CR	150.14
Sunset Lane CR	P	CR	34.74
Swift River CR	P	CR	3.91
Swift River CR	P	CR	63.41
Swift River Reservation	L		427.13
Swift River Valley Trust	N		1.42
Tom Swamp Road CR	P	CR	127.49
Two Mile Landbridge	P	EASEMENT	468.92
Woolsey CR	P	CR	175.11
Yggdrasil Trust WPR	P	WPR	187.99
		Total Acres	10,477.91

Agricultural Preservation Restriction (APR): *permanent protection.* An APR is a permanent deed restriction that enables farmers to access the financial value of their land without needing to sell it. Through federal, state, and local funds, the Massachusetts Department of Agricultural Resources can pay farmland owners the difference between the “fair market value” and the “agricultural value” of their farms. There are currently no APR lands in Petersham.

Chapter 61 lands: *temporary protection, access depends on application.* Chapter 61, 61A, and 61B of the Massachusetts General Laws offer property tax relief to landowners who maintain their land for forestry, agriculture, or recreational purposes respectively for set periods of time instead of selling or developing it. To be eligible for Chapter 61 status, landowners must submit a forest management plan for approval by the DCR, with a minimum tract size of 10 acres. This status typically reduces the assessed value of the land by 95%, yielding a property tax benefit, but landowners must pay taxes on proceeds from forestry operations. Chapter 61A primarily applies to agricultural or horticultural land, though the forested portions of a farm may qualify if a forest management plan is approved. To be eligible, farm owners must have at least five contiguous acres used for agricultural or horticultural purposes. Property under Chapter 61A is assessed at varying rates depending on agricultural use, usually resulting in an 80% reduction in assessed value. Chapter 61B operates similarly but is geared toward outdoor recreational facilities like golf courses and campgrounds. The designations under Chapters 61, 61A, and 61B last for a decade, during which the landowner cannot change the land's use without facing penalties, including back taxes and interest. After the ten-year period, the owner can switch the land's use without penalties or choose to renew the reduced-property tax status. If Chapter 61/61A/61B land is put up for sale, the Town holds the right of first refusal for purchasing it within 120 days. This right can also be assigned to a nonprofit conservation organization like a land trust.

Map 5-2: Chapter 61 Lands and Conservation Restrictions



Enrolling in Chapter 61, particularly 61 and 61A for forestry and agricultural management, are popular conservation approaches in Petersham. While these lands are protected while enrolled in Chapter 61, protection status can change with new ownership or if the current owner decides to convert uses. Therefore, these parcels should be considered for future protection if they coincide with conservation priorities, particularly those related to preserving or promoting contiguous habitat. Some Chapter 61 lands have conservation restrictions (shown with hatch marks) and are protected in perpetuity. Sources: Petersham Assessors Office list of Chapter 61 lands, MassGIS Data: Protected and Recreational OpenSpace, MassGIS Census Towns, MassDEP Hydrography (1:25,000)

Table 5-2: Chapter 61 Parcels

Tax Parcel ID	Map Parcel ID	Classification	Acres
6	201_6_0	Ch61A	3.20
8	201_8_0	Ch61A	5.65
10	201_10_0	Ch61A	22.00
12	201_12_0	Ch61A	12.70
14	201_14_0	Ch61A	7.40
69	201_69_0	Ch61/61A	7.83
70	201_70_0	Ch61/61A	4.16
146	401_3_0	Ch61	11.43
150	401_7_1	Ch61	1.65
151	401_8_0	Ch61	28.11
152	401_9_0	Ch61	27.31
154	401_11_0	Ch61	23.96
164	401_21_0	Ch61	11.00
165	401_22_0	Ch61	72.00
177	401_34_0	Ch61	22.00
189	402_13_0	Ch61	32.42
190	402_14_0	Ch61	1.71
192	402_16_0	Ch61	10.39
247	403_2_0	Ch61	11.10
257	403_12_0	Ch61B	23.00
258	403_13_0	Ch61B	70.20
259	403_14_0	Ch61	20.00
260	403_15_0	Ch61/61A	58.00
266	403_22_0	Ch61	70.50
305	403_61_0	Ch61A	48.00
354	406_21_0	Ch61	21.00
356	406_23_0	Ch61B	8.50
358	406_25_0	Ch61B	62.18
365	406_32_0	Ch61/61A	596.00
367	406_34_0	Ch61/61A	103.00
368	406_35_0	Ch61	43.30
369	406_36_0	Ch61A	36.40
370	406_37_0	Ch61A	21.00
372	406_39_0	Ch61B	6.29
373	406_40_3	Ch61A	8.60
380	406_47_0	Ch61/61A	5.00
381	406_48_0	Ch61/61A	5.90
382	406_49_0	Ch61/61A	1.00
383	406_50_0	Ch61/61A	1.90
420	407_36_0	Ch61/61A	19.50

Tax Parcel ID	Map Parcel ID	Classification	Acres
421	407_37_0	Ch61	132.50
423	407_39_0	Ch61	166.50
427	407_43_0	Ch61	291.0
428	407_44_0	Ch61A	1.02
471	408_1_0	Ch61	0.33
472	408_2_0	Ch61	26.08
493	408_23_0	Ch61	17.00
494	408_24_0	Ch61	7.60
495	408_25_0	Ch61	4.12
496	408_26_0	Ch61	5.13
509	408_40_0	Ch61	6.60
510	408_41_0	Ch61	82.00
513	408_44_0	Ch61	19.00
515	408_46_0	Ch61A	13.50
516	408_47_0	Ch61A	4.00
517	408_48_0	Ch61B	0.12
518	408_49_0	Ch61	9.25
519	408_50_0	Ch61	6.92
521	408_52_0	Ch61	34.54
535	408_66_0	Ch61A	5.60
536	408_67_0	Ch61	35.00
539	408_70_0	Ch61	48.00
541	408_72_0	Ch61	28.00
542	408_73_0	Ch61	50.00
543	408_74_0	Ch61	1.54
558	408_89_0	Ch61	3.10
559	408_90_0	Ch61	22.00
568	411_8_0	Ch61	22.54
575	411_15_0	Ch61/61A	232.00
576	411_16_0	Ch61A	1.00
577	411_16_1	Ch61A	34.10
580	411_17_0	Ch61	47.15
584	411_21_0	Ch61	54.90
585	411_22_0	Ch61	110.46
591	411_28_0	Ch61	18.10
592	411_29_0	Ch61	8.60
593	411_30_0	Ch61	12.90
594	411_31_0	Ch61A	14.40
599	411_36_0	Ch61	9.86
605	411_42_0	Ch61A	12.65
608	411_44_0	Ch61A	7.40
613	411_49_0	Ch61	16.87
620	412_1_0	Ch61B	10.00

Tax Parcel ID	Map Parcel ID	Classification	Acres
641	412_22_0	Ch61	1.20
651	412_32_0	Ch61B	5.30
656	412_37_0	Ch61	20.00
659	412_40_0	Ch61	94.00
665	412_46_0	Ch61	97.10
673	412_54_0	Ch61	25.30
683	412_64_0	Ch61/61A	15.00
689	412_70_0	Ch61/61A	156.00
696	412_77_0	Ch61A	88.00
697	412_78_0	Ch61	13.53
698	412_79_0	Ch61	12.00
700	412_81_0	Ch61	3.80
701	412_82_0	Ch61	13.50
705	412_86_0	Ch61	65.50
707	412_88_0	Ch61B	44.00
710	413_3_0	Ch61A	8.29
720	413_12_0	Ch61A	2.50
724	413_16_0	Ch61B	22.50
727	413_19_0	Ch61	160.00
730	413_22_0	Ch61/61A	51.50
733	413_25_0	Ch61	3.63
734	413_26_0	Ch61	1.50
735	413_27_0	Ch61	1.50
736	413_28_0	Ch61	5.37
739	413_31_0	Ch61B	10.30
746	413_38_0	Ch61	85.00
760	413_52_1	Ch61/61A	0.86
766	413_58_0	Ch61/61A	59.30
774	413_66_0	Ch61A	24.00
780	414_1_0	Ch61	1.51
783	414_4_0	Ch61	19.37
787	414_8_0	Ch61	10.19
792	414_13_0	Ch61	23.30
807	414_28_0	Ch61	33.70
811	415_1_0	Ch61A	7.70
812	415_2_0	Ch61A	6.50
813	415_3_0	Ch61A	12.20
825	415_14_1	Ch61A	9.28
828	415_16_1	Ch61A	4.17
829	415_17_0	Ch61	108.73
861	416_11_0	Ch61/61B	5.00
862	416_12_0	Ch61/61B	6.70
863	416_16_0	Ch61/61B	32.00

Tax Parcel ID	Map Parcel ID	Classification	Acres
866	416_17_0	Ch61/61B	36.00
878	416_29_0	Ch61A	73.15
896	416_47_0	Ch61A	124.88
898	416_49_0	Ch61B	32.00
906	416_57_0	Ch61/61A	25.00
909	416_60_0	Ch61	159.00
913	416_66_0	Ch61	37.97
918	416_71_0	Ch61A	38.00
919	416_72_0	Ch61	51.49
926	416_80_0	Ch61	10.71
928	416_82_0	Ch61	21.24
934	416_88_0	Ch61A	5.51
935	416_89_0	Ch61	36.56
945	416_99_0	Ch61A	13.35
946	416_100_0	Ch61A	8.10
947	416_101_0	Ch61A	7.48
951	416_105_0	Ch61/61A	71.00
963	418_2_0	Ch61	31.50
985	418_26_0	Ch61	127.00
986	418_27_0	Ch61	28.9
987	418_28_0	Ch61	15.93
988	418_29_0	Ch61A	17.00
990	418_31_0	Ch61B	6.81
993	418_34_0	Ch61B	14.16
994	418_35_0	Ch61B	3.69
995	418_36_0	Ch61B	3.72
996	418_37_0	Ch61B	3.45
1014	418_55_0	Ch61	12.35
1015	418_56_0	Ch61A	5.10
1017	418_58_0	Ch61	84.00
1020	418_61_0	Ch61	0.80
1021	418_62_0	Ch61	8.00
1033	418_74_0	Ch61	12.30
1049	420_5_0	Ch61A	6.15
1054	420_10_0	Ch61A	15.21
1056	420_12_0	Ch61A	5.38
1061	201_76_2	Ch61	21.57
1062	416_13_0	Ch61/61B	31.00
1064	406_40_1	Ch61A	20.16
1065	406_40_2	Ch61	18.50
1071	413_53_0	Ch61/61A	531.00
1073	412_80_0	Ch61	10.50
1076	416_87_0	Ch61A	43.45

Tax Parcel ID	Map Parcel ID	Classification	Acres
1077	416_78_0	Ch61	83.10
1082	401_7_0	Ch61	10.22
1083	401_14_0	Ch61	13.50

Tax Parcel ID	Map Parcel ID	Classification	Acres
1084	402_15_0	Ch61	88.12
		Total Acres	6,573.51

B. Public Parcels

About 65% of Petersham’s protected open space is publicly owned. This is in large part due to the protection of the Quabbin water supply, which provides clean drinking water to three million people in Massachusetts. The descriptions below delve into the major public open space holdings in Petersham.

DCR Quabbin Reservoir Watershed, *protected in perpetuity, limited public access*. The Department of Conservation and Recreation (DCR) possesses over 35% of Petersham's total land area (nearly 50% when including water bodies). The majority of DCR-owned lands in Petersham form a connected stretch situated in the southern region of the town. These lands serve as a buffer around the Quabbin Reservoir, creating a greenbelt that extends up to two miles wide in certain areas. This expanse is integral to the Quabbin Reservation, forming a continuous ring of forested green space encircling the reservoir.

Division of Fisheries & Wildlife (DFW): *protected in perpetuity, public access*. The Division of Fisheries and Wildlife (DFW) owns three distinct Wildlife Management Areas (WMAs—public areas that are protected to provide habitat for wildlife and to give people a place to explore wild Massachusetts) in Petersham: Popple Camp WMA, Phillipston WMA, and Raccoon Hill WMA. The Popple Camp WMA lies along the Petersham-Phillipston border, north of Route 101. Covering 1,284 acres and encompassing nearly two miles of the East Branch of the Swift River, this WMA includes segments of Popple Camp Brook, Bigelow Brook, and Shattuck Brook. The area is characterized by mixed hardwood and conifer forests interspersed with wooded swamps, open marshes, and brushy fields. Phillipston WMA is the largest of the three WMAs, spanning 3,266 acres across four parcels in Petersham and Phillipston. It includes mixed hardwood and softwood forests, open marshes, wooded swamps, and abandoned fields, as well as Moccasin Brook. Raccoon Hill WMA is a 437-acre reserve situated across three parcels in Petersham and Barre. The northernmost parcel, accessible via Glen Valley Road or Carter Pond Road, is predominantly covered by mixed hardwood and conifer forests, with varying degrees of moderate to steep slopes throughout the area.

Davenport Pond Property: *protected in perpetuity, limited public access*. The 80.7-acre Davenport Property was acquired by the Town of Petersham in 1986 due to the landowner’s failure to pay taxes. Mount Grace protected the property in perpetuity in 2009 with a Forest Legacy grant as Article 97 land and deeded the property to the Petersham Conservation Commission. Approximately 80 acres is open to the public for non-motorized recreation including hiking, cross country skiing, snowshoeing, horseback riding, mountain biking, fishing, and nature watching. There is also an auction parcel of 2.58 acres which the Town could sell as a buildable lot, and a 0.68-acre Town-use parcel which is not considered a buildable lot.

Babbitt Wildlife Sanctuary (includes White Horse Lane Conservation Area and South Street Conservation Area), *protected in perpetuity, public access*, owned by the Town of

Petersham. The 61-acre sanctuary was gifted to the Town in 1976. Hiking is allowed, but not hunting, and the deed requires that part of the sanctuary be maintained as an open field.

Federated Women's Club State Forest, *protected in perpetuity, public access*, owned by the Department of Conservation & Recreation. 984-acre forest of pine, maple, birch, and hemlock; its main geological feature is the Gorge in the southwest section of the forest. There's also a 140-acre wildlife sanctuary in the center, and a dam at Fever Brook, which attracts migrating and native waterfowl.

Petersham State Forest, *protected in perpetuity, public access*, owned by the Department of Conservation & Recreation, about 1,730 acres and allows hiking, camping, fishing, and wildlife watching.

Petersham Town Forest, *protected in perpetuity, public access*, owned by the Town of Petersham, 30 acres, managed for forestry. The Board of Selectmen authorizes cuts on this land periodically.

Table 5-3: Public Parcels

Owner Type	Type of Protection
M = Municipal	CR = Conservation Restriction
S = State	

Site Name	Owner Type	Type of Protection	Acres
Babbitt Wildlife Sanctuary	M	Fee	53.74
Center School	M		17.17
Davenport Pond	M	Deed Restriction	80.70
East Street Cemetery	M		9.68
Federated Women's Club State Forest	S		995.48
Ledgeville Cemetery	M		1.00
Nichewaug Cemetery	M		0.21
Petersham Center Cemetery	M		1.82
Petersham State Forest	S		480.86
Petersham Town Common	M		0.77
Petersham Town Common	M		0.82
Petersham Town Forest	M		92.21
Phillipston WMA	S		968.60
Popple Camp WMA	S		590.22
Quabbin Reservoir Watershed	S		12,548.60
Raccoon Hill WMA	S		72.71
South Street Conservation Area	M	CR	24.73
Sputtermill Pond Access	S		60.55
The Indian Cemetery	M		0.28
Town Forest	M		20.57
White Horse Lane Conservation Area	M	CR	86.28
		Total Acres	16,106.99

Table 5-4: Town Owned Conservation and Recreation Properties

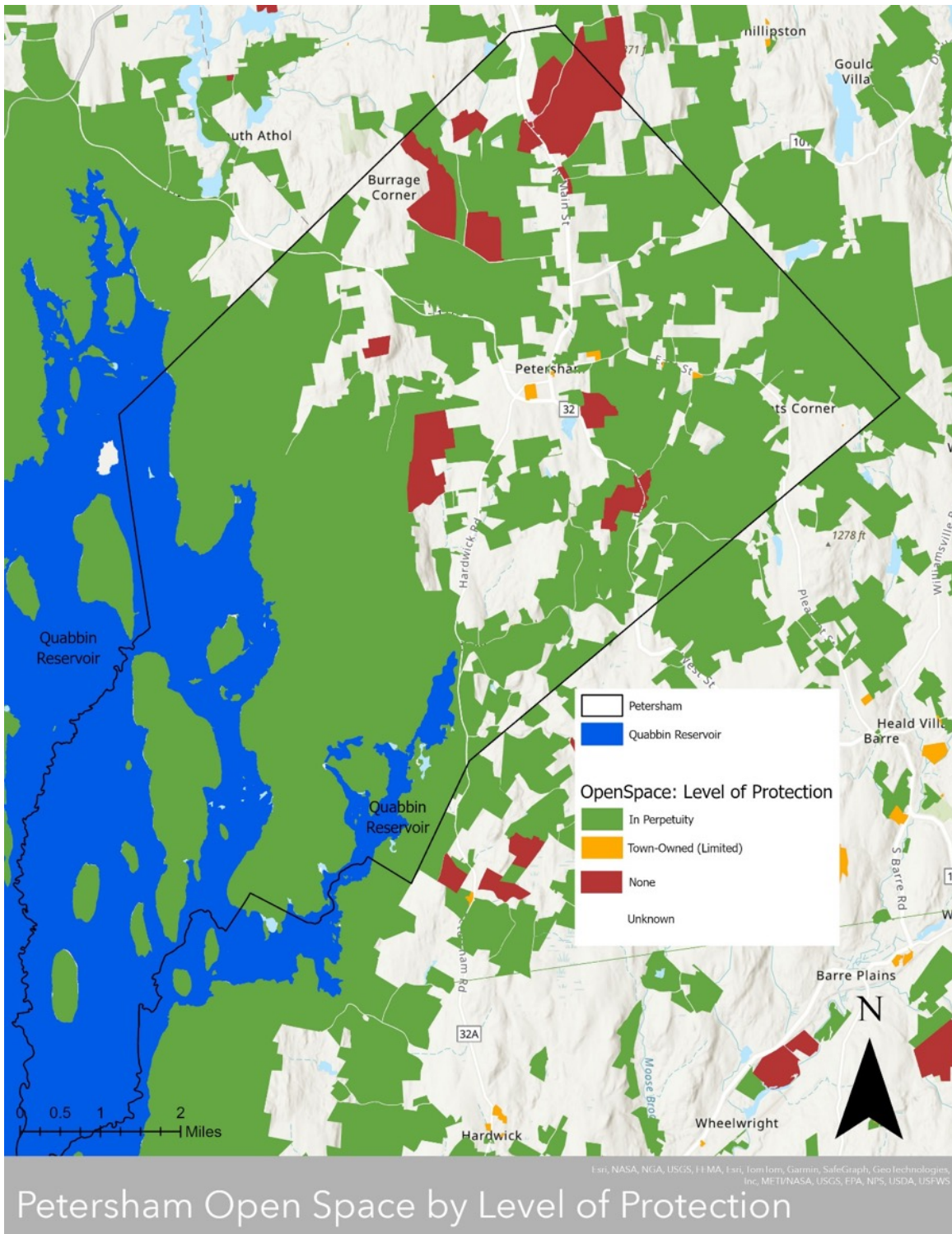
All properties have public access. Petersham has one zone: residential – agricultural

Property	Agency	Use	Condition	Recreation Potential	Grants for Protection	Public Access	Degree of Protection
Petersham Center School	School Dept.	Baseball Soccer Playground	Excellent	Nature Study, School Gardens	None	Yes	High
Babbitt Wildlife Sanctuary	Conservation Commission	Nature viewing/study Trails	Fair	Current use	None	Yes	High
White Horse Lane Conservation Area	Conservation Commission	Nature viewing/study Trails	Fair	Current use	None	Yes	High
South Street Conservation Area	Conservation Commission	Nature viewing/study Trails	Fair	Current use	None	Yes	High
Davenport Pond Property	Conservation Commission	Nature viewing/study Trails	Fair	Current use	Forest Legacy	Yes	High

There are five discontinued roads that the town voted in 1978 to become public footpaths. They are not public ways for vehicular use and the lots along them cannot be developed. They include:

- French Road from Route 32 to a dead end.
- Pierce Road from Route 32 to the Phillipston Town Line.
- Poor Farm Road from Route 32 to the Phillipston Town Line.
- Church Road from Glen Valley Road to a dead end.
- Camel Hump Road from Fever Brook south to the DCR gate 38 of the Quabbin Reservation.

Map 5-3: Open Space by Level of Protection



Due to the amount of land protected in perpetuity, much of Petersham is unable to be developed and prime forestland and wildlife habitat can thrive. A top priority of Petersham residents regarding ongoing conservation efforts is to make sure those forests and rare species habitat are connected and allow for wildlife corridors through town and the region. Sources: MassGIS Data: Protected and Recreational OpenSpace, MassGIS Census Towns, MassDEP Hydrography (1:25,000)

Table 5-5: Protected in Perpetuity Parcels

Site Name	Acres
Anderson WPR	13.33
Babbitt Wildlife Sanctuary	53.74
Baird & Howell WPR	32.45
Bassets Corner Conservation Area	19.13
Brooks Woodland Preserve	696.08
Brooks Woodland Preserve CR	21.83
Bryant WPR	77.25
Buell WPR	25.59
Butterworth WPR	93.85
Caouette 2 WPR	32.94
Caouette WPR	34.18
Carter Pond WCR	107.28
Carter Road CR	18.49
Carter Road CR	82.75
Casey/Wilder CR	7.22
Chimney Hill Farm LLC WPR	587.54
Chivian & Jacobson WPR	17.39
Clark & Scoufopoulos 2 WPR	18.87
Clark & Scoufopoulos WPR	26.53
Clark WPR	173.26
Coe WPR	45.62
Connor Pond	30.48
Coolidge WPR	38.56
Coolidge WPR	134.49
Davenport Pond	80.70
Davis CR	672.65
Day & Smith & Brannon WPR	9.95
Day & Smith & Brannon WPR	20.74
Day Family Trust WPR	9.50
Dickson WPR	55.16
Ewing WPR	80.90
Federated Women's Club State Forest	995.48
Feldman CR	103.95
Finneran-DeBarbieri WPR	5.46
Finneran-DeBarbieri WPR	5.86
Flye CR	19.96
Foye 1 WPR	56.04
Foye 1 WPR	96.61
Gross Farm	18.78
Gross Farm	210.35
Harvard Forest	88.06

Site Name	Acres
Harvard Forest 2 WPR	647.85
Harvard Forest CR	104.57
Harvard Forest CR	22.23
Harvard Forest WPR	119.53
Hellen WPR	12.58
Hellen WPR	2.75
Hutchinson & Jule WPR	148.47
JB & T Family Limited Partnership WPR	36.68
Johnson CR	231.54
King Farm CR	101.57
Lee/Briggs Lot CR	55.44
Levine & Palin WPR	42.70
Lockesmith CR	7.48
Lockesmith WPR	20.45
Lockesmith WPR	23.14
Lockhart & Block WPR	73.87
Lundquist 2 WPR	14.17
Lundquist 3 WPR	23.40
Meixsell WPR	6.13
Mountain Bay Foundation WPR	7.58
North Common Meadow	23.16
North Common Meadow	2.21
Papoyan and Bisharyan WPR	40.05
Petersham Country Club CR	175.15
Petersham Land Conservation Trust CR	11.21
Petersham State Forest	480.86
Petersham Town Common	0.77
Petersham Town Common	0.82
Petersham Town Forest	92.21
Petrie WPR	32.68
Phillipston WMA	925.57
Pope WPR	26.85
Popple Camp WMA	590.22
Quabbin Reservoir Watershed	12,548.91
Raccoon Hill WCR	20.23
Raccoon Hill WMA	72.71
Ricard WPR	59.57
Rubin WPR	85.44
Rutland Brook Wildlife Sanctuary	705.08
Selden 2 WPR	19.92
Selden 3 WPR	84.27
Selden 3 WPR	18.22

Site Name	Acres
Selden WPR	242.92
Selden WPR	22.54
Sinclair CR	23.72
South Street Conservation Area	24.73
Sputtermill Pond Access	60.55
St Mary and St Scholastica CR	150.14
Sunset Lane CR	34.74
Swift River CR	3.91
Swift River CR	63.41
Swift River Reservation	427.13

Site Name	Acres
Tom Swamp Road CR	127.49
Town Forest	20.57
Two Mile Landbridge	159.52
Two Mile Landbridge	20.18
Two Mile Landbridge	289.21
White Horse Lane Conservation Area	86.28
Woolsey CR	175.11
Yggdrasil Trust WPR	187.99
Total Acres	24,757.36

C. Recreation Lands

Recreation and community gathering are important to residents of Petersham. Due to the large amount of open space in town, there are several opportunities for facilities-based “active” recreation and nature-based “passive” recreation.

Active Recreation

Soccer and baseball programs for Petersham residents in grades K-6 are conducted as part of the regional school district, which includes Barre, Hardwick, Hubbardston, New Braintree, and Oakham. Basketball for grades 1 to 6 is organized locally by volunteers, who collect a small fee for each participant to pay for use of the school gymnasium for games. All sports for grades 7 to 12 are organized and provided through the Mahar Regional School, which offers more extensive sports fields and teams for its middle school and high school students.

Most of the sports and recreation programs in Petersham (except for the Mahar teams) are initiated and managed by volunteers, without financial assistance from the Town. While the school mows the grass on the fields at the Center School, volunteers are responsible for most other maintenance. In years past, the Town spent \$2,500 to install a new fence around the little league field to bring it up to regulation standards.

Active Recreation Facilities:

- **Petersham Center School**, *owned by the Town of Petersham*. Recreation facilities include a little league field, softball field, soccer field, and indoor gymnasium. Outside of school hours there are organized pickleball and basketball games for adults.
- **Petersham Curling Club**, *privately owned*.
- **Petersham Gun Club**, *privately owned, limited public access*.

Passive Recreation

Petersham residents are passionate about passive recreation, such as hiking, walking, and swimming. The town is known for offering excellent hiking trails, due in large part to the scenic views afforded by ample conservation lands.

The majority of open space lands that are owned by the state, town, or land trusts are open to the public for recreational use. All DCR-owned properties in town (except for the islands in the Quabbin Reservoir) are open to the public.

Much of the conserved lands in town contain trails for non-motorized recreation such as hiking, cross-country skiing, snowshoeing, and, in some instances, mountain biking. Official mapped hiking trails are available at Harvard Forest, the Federated Women’s Club State Forest, the Petersham State Forest, the Swift River Reservation, White Horse Lane Conservation Area, Rutland Brook Wildlife Sanctuary, Brooks Woodland Preserve, and the North Common Meadow.

Many of the trails in Petersham are mapped by the managers of the individual properties, but there is no coordinated town-wide trails map. In addition to these trails on public and nonprofit lands, there are some “unofficial” trails on private property. In some instances, these trails are used only by the landowner; in other cases, neighbors and others use them as well.

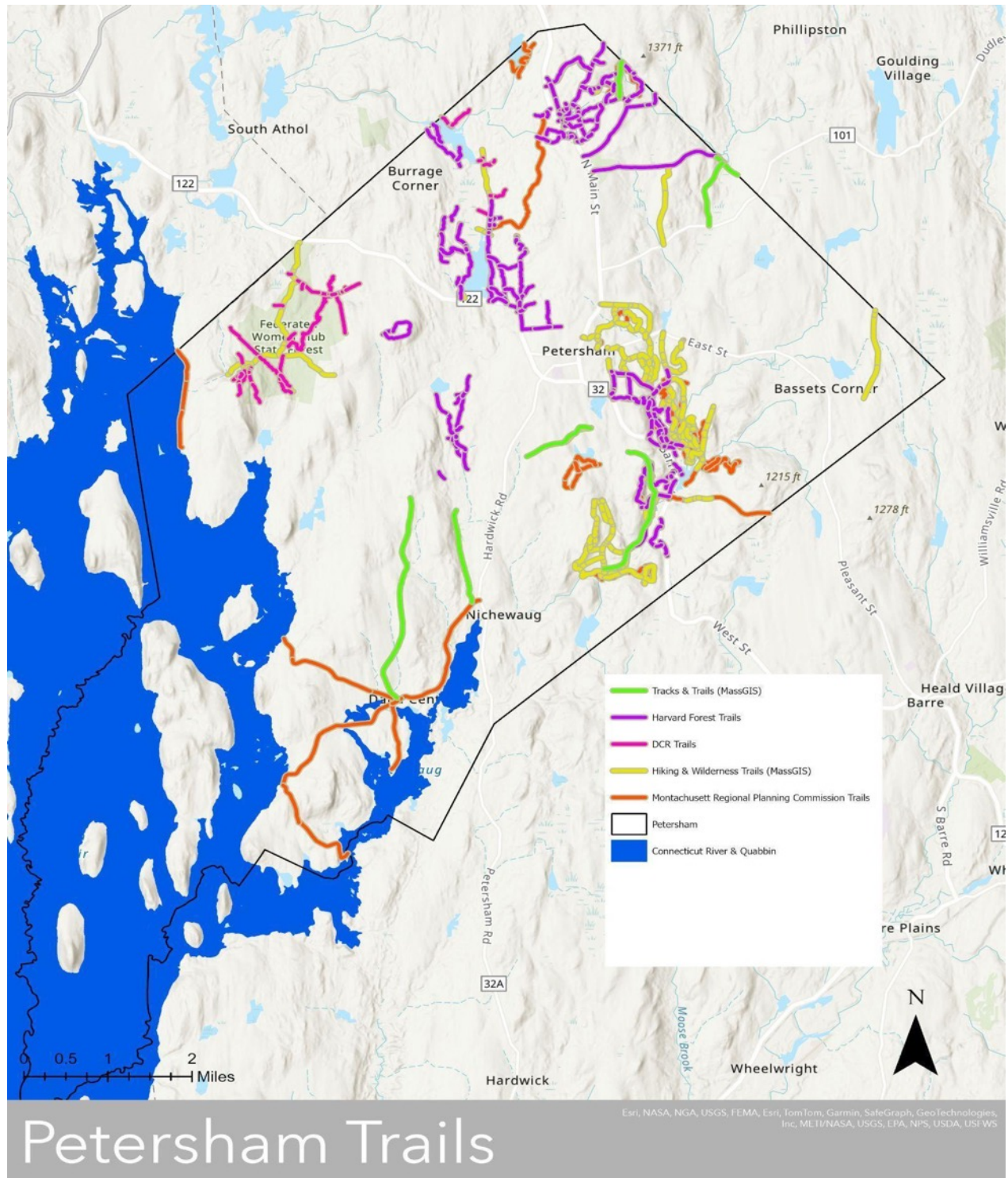
Since motorized activities such as snowmobiling and riding all-terrain vehicles are generally prohibited on public and nonprofit lands, these activities are only supposed to occur on private trails.

In addition to trail-related activities, there are other passive recreation opportunities available in Petersham, such as hunting, fishing, picnicking, camping, and boating.



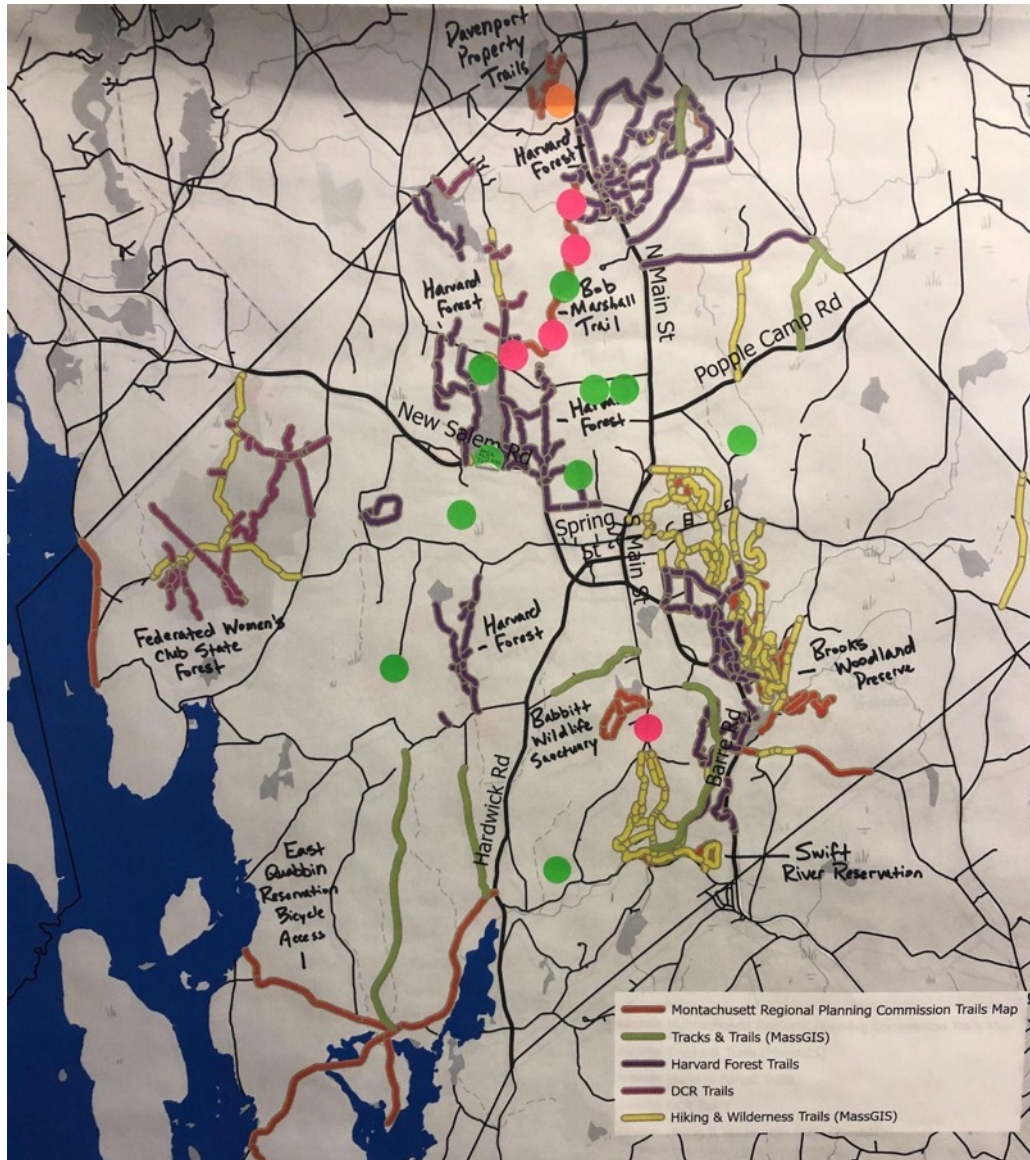
Rental boats, Quabbin Reservoir. Courtesy of DCR.

Map 5-4: Petersham Trails



This is a combination of existing trail maps for Petersham, from different sources. While hiking is the most popular recreational activity in town, for residents and out-of-towners alike, a comprehensive guide and map for hiking and other trail activities in town does not exist. Sources: MassGIS Data: Hiking Trails for NextGen 911, MassGIS Data: Tracks and Trails, MassGIS Data: Department of Conservation and Recreation Roads & Trails, Petersham Trail Inventory from the Montachusett Regional Planning Commission, MassGIS Census Towns, MassDEP Hydrography (1:25,000)

Map 5-4 shows that there are trails in the major conservation areas in town and they are well-dispersed throughout town. One activity from the community engagement meeting held on March 2, 2024, asked residents to put dots in areas where they would like additional trails in order to expand hiking opportunities and/or to connect existing conservation areas; a photo of this activity is included below.

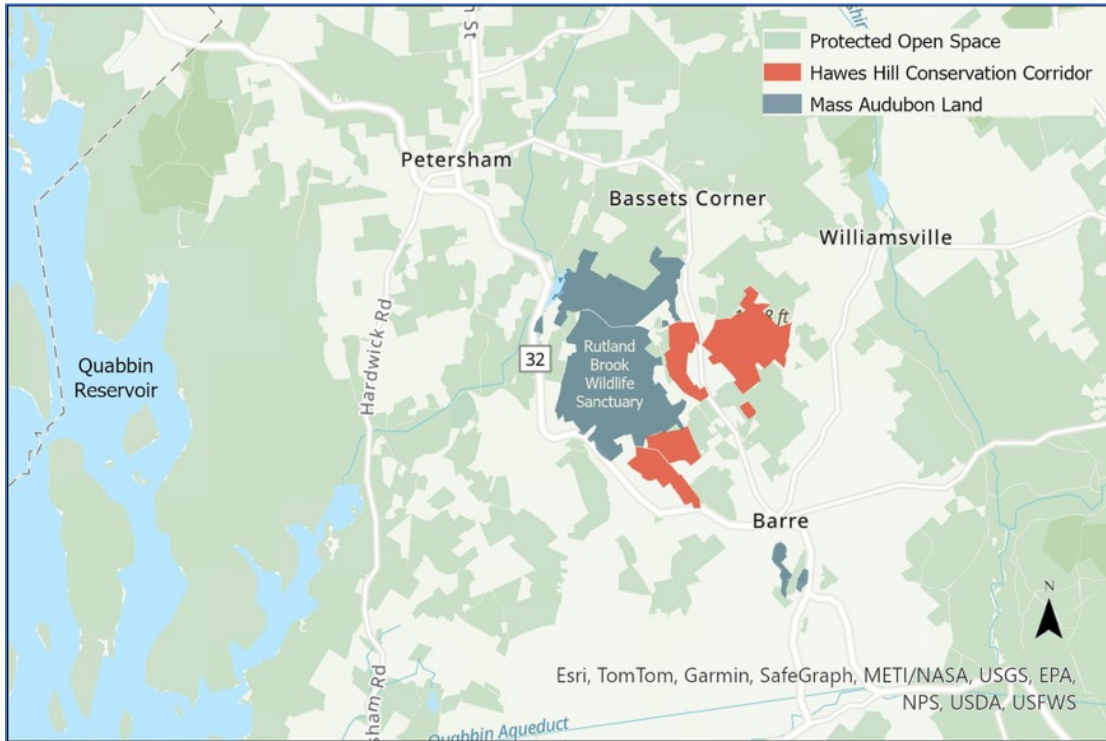


D. Regional Connectivity of Open Space Lands

Regional connectivity of intact forest, wildlife habitat, and wildlife corridors is a priority concern of Petersham residents. In years past, local organizations made it a priority to create a contiguous large-scale network of conservation lands stretching from the Quabbin Reservoir to the New Hampshire border, providing protected habitat for the area’s native species. This vision began to take form in the shape of a large “donut” of conservation lands encircling Athol and Orange; conservation areas were secured along the northern section of this “donut” in Warwick and

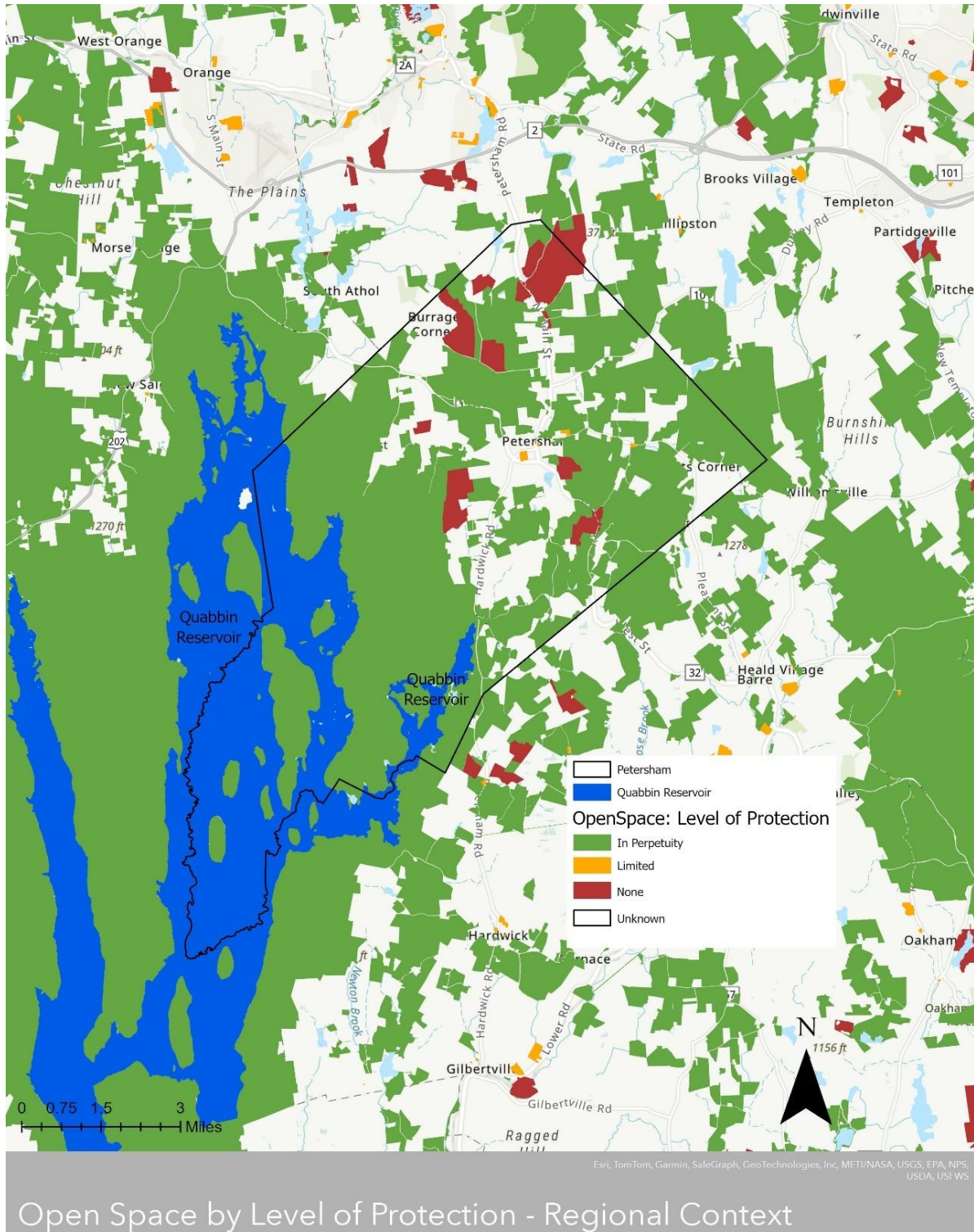
Royalston and various agencies and organizations involved in land conservation in the north Quabbin region formed the North Quabbin Regional Landscape Partnership, which is part of Mount Grace, to coordinate their efforts.

More recently, Mass Audubon has collaborated with several conservation organizations and landowners to complete the Hawes Hill Conservation Corridor Project, which will permanently protect 800 acres in the town of Barre in the vicinity of Mass Audubon’s Rutland Brook Wildlife Sanctuary in Petersham.



Map of Hawes Hill Conservation Corridor Project. Copyright 2014 by Massachusetts Audubon Society, Inc. (Mass Audubon), 208 South Great Road, Lincoln, MA 01773. All rights reserved. Some materials delivered from this website may contain other proprietary notices and copyright information relating to those materials.

Map 5-5: Open Space by Level of Protection – Regional Context



This zoomed out map shows areas of contiguous protected open space, particularly around the Quabbin Reservoir, but also along the eastern edges of Petersham. Local conservation organizations have made it a priority to consider regional connectivity when pursuing protection of specific parcels; these large, undeveloped patches of land can foster greater wildlife habitat and ecosystem function. Sources: MassGIS Data: Protected and Recreational OpenSpace, MassGIS Census Towns, MassDEP Hydrography (1:25,000)



The Fisher Museum at Harvard Forest offers information on forest ecology, landscape history, and land conservation and management. It is also home to a series of 23 dioramas which show changes to the landscape since the colonization of unceded Nipmuc territory.

**Section 6
Community Vision**



Community engagement meeting in Petersham Lower Town Hall, February 3, 2024.

A. Description of Process

Petersham's first Open Space and Recreation Plan was written in 2003 with input from residents, guidance from the Petersham Ad Hoc Planning Committee, and technical assistance from Daylor Consulting Group. The accompanying but never-formally-adopted 2004 Master Plan, also prepared by Daylor and the Ad Hoc Planning Committee, influenced and was sometimes referenced by subsequent planning documents. Those documents include the 2005 *Town of Petersham Affordable Housing Plan* prepared by the Petersham Affordable Housing Task Force, and the 2008 *Petersham Reconnaissance Report* prepared by the Massachusetts Department of Conservation and Recreation. The next OSRP was updated in 2008 and again in 2014. The 2014 OSRP update was based on the previous OSRPs and 2008 *Petersham Reconnaissance Report* and incorporated public input from two Special Public Meetings. The 2016 *Nichewaug Inn Market and Feasibility Analysis* prepared by Concord Square Planning and Development, Inc. followed. The Vision Statement included in the 2014 OSRP is nearly identical to the one in the 2004 Master Plan.

As preparation for drafting a new OSRP, Petersham's Open Space and Recreation Committee conducted a survey of town residents. According to the Open Space and Recreation Committee:

The first step of public engagement in the Open Space & Recreation Plan update process began with a public survey prepared by the Open Space & Recreation Committee, which ran from Monday, October 23 until Friday, December 1, 2023. The public survey was available online at SurveyMonkey and as printed paper surveys. The online survey was linked at the town website, in articles in The Barre Gazette and The Athol Daily News, in weekly posts at the Petersham Alert Network on Facebook and publicized through regular emails. The 595 printed surveys were mailed to every residential mailbox and PO Box in town. Additional copies of the printed survey and deposit boxes were available at Petersham Memorial Library, Town Hall, Town Business Office, The Country Store, Quabbin Woods Restaurant, and the Petersham Package Store. Paper surveys were hand delivered to the Petersham Center School. Flyers were posted around town at local churches, civic buildings, local businesses, and at the post office. Surveys were distributed at the town's Scarecrow Contest and Halloween on the Common. News of the survey was also spread by word of mouth. Survey questions assessed residents' interest in and reasoning for protection of open space as well as their recreational interests. In a town with a population of 1,194 people in 461 households there were 209 survey response submissions.

In January 2024, a Core Team of Petersham residents, including members of the Open Space and Recreation Committee, Conservation Commission, Board of Registrars, Zoning Board of Appeals, and Cultural Council, met with three graduate students from the Conway School to begin working on the updated OSRP. As part of the process, the Core Team provided logistical support to the Conway students for two community engagement meetings. The agendas and results of these meetings can be found in Appendices B and C, respectively.

The first meeting was conducted as an in-person/Zoom hybrid on February 3, 2024. The meeting was attended by 71 residents in person and 11 by Zoom. There were three entry activities. A sign-in sheet gathered demographic information, a poster sought clarification of Survey

Question #1, regarding the importance of the Town acquiring versus conserving open space, and an open response question simply asked, “What brought you here today?” The formal meeting began with the Core Team summarizing the purpose of the OSRP and actions taken to date to address the 2014 OSRP’s goals and objectives. The Conway students followed with a brief overview of the survey results. The Conway team then introduced an exercise wherein residents rated the different parts of a modified 2014 Vision Statement (modified slightly to eliminate redundant language and reference to the already-preserved Country Store) for level of agreement and provided alternate visions. This was followed by individual and group efforts to identify the greatest concerns and desires for Petersham regarding recreation and conservation.

The Conway team conducted a Works-in-Progress presentation at the Conway School in Northampton on February 23, 2024. The students presented contextual analysis of the town, including a summation of the survey; rephrasing of the vision statement; and analysis of the ecology, recreation opportunity, and development concerns. They also presented some potential recommendations regarding trail connectivity and planning related to development. These non-comprehensive presentations were designed to solicit input about the process from a panel of guest reviewers as a part of the educational experience for the Conway students. The Core Team was invited to attend, and the video of the presentation was posted on the Town of Petersham website. The Core Team informed residents about the posting by email. Some residents provided feedback based on the contents of the recording.

The second community engagement meeting, also conducted as an in-person/Zoom hybrid, was held on March 2, 2024. The meeting was attended by 29 residents in-person and 6 households by Zoom. It began with a presentation which described the process and progress to date. A variety of activity stations were designed to solicit further feedback on the nature of the community’s vision and goals, as well as what open spaces are of highest interest for conservation or recreation.

The third community meeting, also conducted in-person and by Zoom, was held by the Open Space and Recreation Committee and Core Team on June 25, 2024. The meeting was attended by 14 residents in-person and 5 households by Zoom. The meeting capped off a period of public comment and review of the draft plan which ran from May 23rd to June 30th. Section 10 describes the final meeting.

Statement of 2024 Open Space and Recreation Goals

The results of the public survey, community engagement meetings, and interactions with the residents of Petersham have led to the following Vision Statement and accompanying goals for the 2024 OSRP:

Petersham is a community that conserves its open spaces where people and nature thrive together; offers recreational opportunities to its residents and visitors alike; and provides an affordable and financially sustainable path forward.

GOAL 1. *Petersham will retain its beauty, unique sense of place, and rural character by protecting the health and integrity of its natural assets, including but not limited to its air, drinking water, wetlands, soils, scenic views, working farms, fields, and forests, large blocks of connected forestland, and the diversity of its native flora and fauna.*

GOAL 2. *Petersham will enhance the quality, variety, and accessibility of its open spaces and recreational offerings for the health, well-being, safety, and enjoyment of all residents and visitors.*

GOAL 3. *Petersham will increase climate-resilient land practices and active community stewardship of its open spaces, public byways, and private lands.*

GOAL 4. *Petersham will improve communication among town departments, committees, and residents to increase public awareness about open space access, inclusive cultural and recreational uses, land conservation, and stewardship.*

Section 7 Analysis of Needs



Stone Wall on Prospect Hill. Courtesy of Harvard Forest.

Petersham’s needs have been assessed by means of the 2023 Open Space and Recreation Survey, two community engagement meetings in February and March of 2024, and discussions in person and over Zoom with Petersham’s various boards, commissions, and residents. Results from the survey and meetings can be found in Appendices A and C.

Many conditions in Petersham are similar to those described in the 2014 OSRP. There are some notable changes, such as zoning and back lot amendments to the Zoning By-Laws, demolition of the Nichewaung Inn, and the conservation of more than one thousand acres in Petersham.

A. Summary of Resource Protection Needs

Wildlife and Critical Habitat

A remarkable amount of core and critical habitat is in permanent conservation, with additional lands in temporary conservation agreements. Areas lacking permanent protection are all in the northeastern half of town and tend to follow or branch off from the major roads. There are pockets in the northern and eastern corners of town, and swaths along Route 32 heading north from the town center, between Routes 32 and 32A heading south from the town center. A large swath stretches from the northeastern edge of Petersham (near Athol), crosses Route 122 and juts into the state DCR land (See Map 5-2: Open Space by Level of Protection). Some of the lands lacking permanent protection are under temporary Chapter 61 protection (see Chapter 5-3: Chapter 61 Lands and Conservation Restrictions). Informing landowners and managers about the best conservation and protection methods could help protect these valuable ecosystems further.

Over 90% of survey respondents indicated a desire to protect environmentally sensitive areas in Survey Q2, a sentiment well reflected at community engagement meetings. And 92% indicated a desire to protect wetlands. The broad forested landscape is dotted with wetlands and waterways, which are critical habitats for numerous plant and animal species (See Maps 4-8 and 4-9). When vernal pools are certified by the Massachusetts Natural Heritage and Endangered Species Program, those pools may receive jurisdictional protection under Wetlands Protection Act regulations. It is therefore important to identify uncertified pools, especially those in otherwise unprotected areas, in anticipation of submitting them for certification (See Map 4-10).

Residents have expressed a concern about the proliferation of non-native invasive species, both flora and fauna, in Petersham’s open space. Non-native invasives can outcompete natives that have co-evolved to support each other and thereby have wide ranging impacts on an ecosystem. There is an added concern that climate change may exacerbate their proliferation by expanding their range to include Petersham and in the ecosystem gaps created by native species die-back due to adverse climate conditions or pests.

Connectivity and Wildlife Corridors

Over 90% of survey residents indicated a desire to protect unfragmented habitats and wildlife corridors. There is a considerable amount of connectivity between habitat areas within Petersham and with areas outside of Petersham because of the large amount of permanently protected land. Chapter 61 lands contribute significantly to habitat connectivity although these lands are often

not permanently protected. Land lacking permanent protection in town takes the form of a figure-eight with the union of the two loops being the center of town. These areas coincide with the state roads. There are additional areas without protection spreading along East Street. These areas coincide with breaks in forest cover and habitat blocks, generally coinciding with human habitation (See Map 5-2: Open Space by Level of Protection).

If increased development comes to Petersham, current zoning rules may cause development to fill out the roadsides even further. If houses and lawns line the entire length of the roadside, they would further fragment the forest and habitat blocks, thereby reducing connectivity and obstructing wildlife corridors. There are mechanisms in the town's subdivision bylaw which enable greater density of housing if some of the area with road frontage is conserved, preventing development from occurring along the entire length of the roadside. This might create corridor bridges around the swaths of development. There are also state conservation requirements that are applicable for subdivisions and other tools to enable denser housing which would result in more protected space while allowing for increased housing.

Farming and Forestry

There is widespread interest in conserving farming and forestry in Petersham. Survey Q2 indicates that 88% of survey respondents feel that protecting farmland is important and 89% feel that protecting forests is important. Individual discussions with residents evidenced varying and interrelated reasons for this interest. Farmlands and forests can both provide ecologically valuable habitat and contribute to Petersham's rural character by way of scenic vistas and a nod to its post-colonization agricultural past (See Map 3-2: Land Cover in Petersham, MA 2016 and Map 4.3: Farmed Prime Soils).

Agricultural lands such as pastures and hayfields, because of their periodic disturbances, can provide habitat to species which need early successional landscapes to flourish. Because many of Petersham's agricultural lands are pastures and hayfields, conservation of these areas might be doubly effective by conserving both habitat and rural character. Residents have also expressed a desire for locally produced food. Conserving agricultural land, in addition to staving off development, can make it financially accessible to prospective farmers, thereby enabling its continued use for food production. Farms and forests alike contribute to the local economy. Some residents have also expressed an impulse to protect these industries because doing so protects the livelihoods and lifestyles of their neighbors.

Residents have expressed a concern with clear-cutting as a forestry practice because of valid concerns about the negative effects of clear-cutting by way of increased erosion and reduced carbon sequestration but forestry practices in town are almost always utilizing selective cutting. The specific instances of clear-cutting that residents have referred to have typically preceded some form of development.

The 2016 *Petersham Farmland Inventory* prepared by Mount Grace Land Conservation Trust provides an in-depth inventory of active farming activities as well as a rubric for prioritizing conservation of agricultural parcels. This rubric could be adapted to explore other conservation interests, such as wildlife corridor protection. The town could also create an all-encompassing

rubric which prioritizes conservation actions informed by a range of interests (e.g., prime farmland, sensitive habitat, or connectivity).

Ecosystem Services: Water, Air, and Soil Quality

Residents are also concerned about the impacts of human uses on the natural resources they depend on. Survey question Q2 and feedback at both community meetings indicate residents have a very high interest in protecting Petersham's water and wetlands. Concern about the air quality was nearly as high.

Towns with small populations and low budgets are not often able to build a wastewater system or municipal water supply in large part because of the cost, amplified on a per person basis by the low population density in a town like Petersham. Water comes from wells and wastewater is dispersed through septic systems, even for larger buildings like the public school. If appropriate systems are not installed properly, with due consideration to development density, soil type, slope, groundwater health, and proximity to nearby surface water, the systems can fail and threaten to contaminate nearby water, including wells, surface water, and everything downstream from the source of contamination. The dense layers and poor percolation of most of Petersham's soils can increase this possibility, as can aging systems (See map 4.2 Soils and Geologic Features: Wet Soils). Major rain events, which have been more prevalent in recent years because of shifting climate patterns, can also increase the risk of contamination. The reliance on wells and the need to protect the quality of the Quabbin raise the stakes. Exploration of new septic technology may provide better water protection and more flexibility in development patterns. The benefits would extend to vernal pools, wetlands, ponds, and the streams that feed the Quabbin.

Non-point-source pollution entering the waterways via storm drains or run-off from roads without drains is a particular concern voiced by residents. As mentioned in Section 3, this can negatively impact habitat and water quality in the Quabbin. As discussed in Section 4, PFAS have been detected in Petersham.

Air quality concerns typically were voiced in terms of carbon-sequestration. While many residents want to protect forestry practices, which can involve logging, they want to preserve wooded areas because of their major carbon sequestration capacity.

Soil health concerns were evidenced by occasional references to pesticide use. Pesticides can have adverse effects on wildlife and natural ecosystems as well as humans. There is also a possibility that some prime agricultural soils have been adversely affected by human habitation, whether through soil disturbance, compaction, or contamination (such as lead).

Trails and Related Passive Recreation (See Map 5-4: Trails)

Walking and hiking were the most popular recreational choices for Petersham residents responding to 2023 Survey Q8. Other popular activities which take place on Petersham's trails are birdwatching, dog-walking, cross-country skiing, snowshoeing, mountain biking, jogging/running, snowmobiling, and ATV-use, although many who use these activities are restricted at some trail locations. There are differing opinions about trail access for motorized

vehicles. The purposes and rationales for use include recreation, transportation, and precedents of prior access. Arguments against the use of motorized vehicles include noise pollution, air pollution, degradation of trails, and safety concerns. Some residents would like to see increased access for motorized vehicles while others would like to ban the activity within and throughout the town. Individuals may have different opinions about different types of vehicles.

Respondents to Survey Q9 generally (156 out of 203, approximately 80%) claimed to be satisfied with the walking paths and hiking trails in Petersham but comments throughout the survey and at the community engagement meetings belie this sentiment. Residents have indicated desires for increased trail connectivity within town and to trails outside of town, improved accessibility for individuals with impaired mobility, safer interactions with traffic, and increased awareness and accessibility to the trail systems. Some of these needs may be complicated by the proximity of trails to protected or sensitive habitat areas and the potential impact of increased human activity, unwillingness of landowners to grant access to their land for trail connections, and land-owners/trail-tenders who might have limited knowledge of trail building or maintenance; limited resources in the form of labor, equipment, and money; or limited time or desire to engage in trail building or maintenance.

Some residents have also expressed concerns about perceptions of trails as having a non-welcoming or unsafe appearance, especially for individuals who identify as BIPOC or female. It is possible that making public trail heads more obvious, increasing accessibility, and better trail maintenance could help to change these perceptions.

Certain trails have been mentioned as having specific needs, sometimes linked to other needs at the trail location. Trails which residents have indicated as needing attention include Bob Marshall Trail (continued construction and maintenance), Babbitt Wildlife Sanctuary (improved parking, trail construction, and maintenance), and Davenport Pond Conservation Area (trail construction, structure removal, clearing trees from the dam, repair or removal of the dam). These locations warrant further analysis of needs and possible intervention.

Sidewalks which residents have indicated as needing improvement include the town center, Spring Street, and the upper portion of Hardwick Road (parts of the “Old Maids Mile,” especially popular with older residents who tend to live in the center of town).

Hunters and hikers can sometimes be at cross purposes. Only twenty-three of two-hundred-and-nine survey respondents replied that they hunt in Petersham, but comments in the survey and at the community engagement meetings indicated strong opinions about hunting, most often about deer hunting. There are various arguments to be made for and against, but according to the Division of Fisheries and Wildlife, “when deer numbers exceed what the habitat can support, forest health can be severely degraded and negatively impact other animals and plants” (Deer Management). Short of re-introducing natural predators, hunting can help protect Petersham’s forests. Hunters tend to prefer not to hunt near established hiking trails because hikers can scare away game. Hikers would like to see more trail connectivity, and more trails might mean fewer areas suitable for hunting. An inventory of lands where hunting is allowed would raise awareness of these areas. The town might also conduct an assessment for their suitability for hunting and identification of additional or alternative locations.

B. Summary of Community's Needs

Rural Character

Rural character is of extreme importance to Petersham's residents. In the survey, it ranked slightly (1-2%) below the main topics listed in *7A. Summary of Resource Protection Needs*, but rural character is brought up in almost every conversation relating to open space in Petersham. Rural character in Petersham is defined as much by its open space as by its more obviously human-made components (e.g., historic buildings in a small-town center, moss- and lichen-covered stone walls, and aging cemeteries) and the residents of Petersham are proud of the agricultural, forested, and conserved landscapes (See Map 4-4: Unique Features). Comments from the survey and community engagement meetings show that residents can have strong adverse reactions when lots are cleared for new homes or other purposes, including logging. Rules that limit back lots and subdivision, push most development to the roads, making development very visible. And most of Petersham's agricultural land, often a prime candidate for development, is along the roads. These circumstances lead to a high possibility that new development will impinge on Petersham's rural character.

Access for Passive Recreation

The most popular passive recreation activities in town are walking and hiking. These community needs have been addressed in *A. Summary of Resource Needs*. Residents currently enjoy a wide variety of other passive recreation activities. Survey Q9 concerns satisfaction with recreation resources. The responses suggest that the greatest need for improvements, in order of importance, are indoor recreation spaces and courts for sports; activities for adults and seniors; playing fields and outdoor courts for sports; activities for teens and young adults; boat landing/access to water bodies; activities for children and youth; playground; and sidewalks in the town center. A boat landing/access to water bodies falls firmly under *2023 Statewide Comprehensive Outdoor Recreation Plan* Goal 1.2 (see Appendix E), and access to a swimming area, a relatively high recreation desire based on survey Q8, would fall under SCORP Goal 1.1. The desire for activities for different age groups is to some degree programmatic as opposed to spatial and may tie into a thread throughout the survey and meeting comments evoking a desire for bringing people together. While there are several indoor gathering spaces in town (Town Hall, the library, churches, school, etc.) which can serve as community gathering spaces there does not seem to be an open-air venue which provides shade and protection from precipitation and might accommodate large crowds and be available without first getting a key. A pavilion was a recurring suggestion which might serve a valuable function for the community and falls under the SCORP Goal 3.3: to support the development of park-like amenities. This could also be a venue for town-wide land-based festivals, fairs, or events to promote eco-tourism.

Active Recreation Facilities

There are several active recreation venues in town, such as the Petersham Gun Club, Petersham Curling Club, and Petersham Center School, which offers indoor and outdoor courts and fields as well as a playground. These school facilities are only available during non-school hours and the indoor courts are not always open in non-school hours. The top desire is pickleball or tennis courts. Other interests are a swimming pool, playing fields and courts for team sports, and an

outdoor ice-skating rink. Playing fields could host other recreation activities, such as lawn games and kite flying, which saw support from a smaller contingent of residents. The details of these results can be found in the survey and meeting results in the appendices. A study addressing suitable locations and costs might be helpful in deciding whether to pursue these facilities.

Cultural & Historical Heritage for all Peoples

Heritage is our legacy from the past, what we live with today, and what we pass on to future generations – UNESCO

The Nipmuc people, as with many Native populations, have been the subjects of centuries of violent acts that disenfranchised and dispossessed their communities of their Algonquian language, culture, and connection to the land. These processes have been enacted with the intention of eradicating and erasing the presence of Nipmuc people from their lands. The scalp bounties Petersham was founded on, along with slavery, wardship, forced assimilation, and un-honored treaties have been deeply traumatic for generations of Nipmuc people and have given cause for a distrust of the institutions and people which pursued those acts. The results of the 2023 Open Space and Recreation Survey and two community engagement meetings in February and March of 2024 indicate an interest in creating and improving relationships between the residents and Town of Petersham and the Nipmuc people. The relevance to this OSRP lies in the potential of open space and recreation—the land itself—to serve as a bridge between these peoples.

Recognition of the history between colonizers and their successors and the Nipmuc, as well as the harms inherent in that history, is a crucial step in a relationship. Establishing a *Truth, Understanding, and Reconciliation in Nichewaug (TURN) Commission* would start that process at the town level to reaffirm the aboriginal rights of the Nipmuc and other sovereign Indigenous nations in their relationship with the Town of Petersham. See, for example, Comm. v. Maxim, 429 Mass. 287, 291 (1999) ("[a] long history exists in the Commonwealth protecting Indian fishing rights)."

A multitude of post-colonization cemeteries, stone walls, foundations, and cellar holes throughout Petersham's open space have been mapped by individuals and organizations. A comprehensive map of artifacts should be made, enabling monitoring, preservation, and maintenance as deemed necessary. It may also be necessary to protect the context (e.g., forested landscape or proximity to historic buildings) they are in. Sites of historical or cultural significance should be considered as factors in conservation of land. The historic architecture in the town center is already protected by the Historic District, but an inventory of historic buildings or places which are culturally important or important elements of the viewshed may be candidates for future preservation. Relevant information should be available to explain the importance of these sites. Any such efforts regarding Nipmuc artifacts or heritage should only be with the consent, participation, and leadership of the Nipmuc people.

C. Management Needs, Potential Change of Use

Financial Needs

Based on survey Q9 and community engagement meeting results, residents have greater interest in utilizing already-conserved open space in the town than acquiring more for conservation. There is greater interest in acquisitions or other arrangements which have a specific benefit for the town, such as access to a boat launch or swimming hole, than there is for acquisitions based on the availability or size of a parcel. While residents overwhelmingly support conserving land and are open to acquisitions or conservation strategies which use non-Town funds such as state or federal grants, some residents are concerned about the loss of property tax revenues when land becomes conserved. However, a 2019 UMass Amherst study of fiscal impacts of land use found that “permanent or temporary conservation which reduces property taxes from open space would likely not drastically increase taxes for other types of land” (Murray, Catanzaro). One of the towns in the study was Whately, also a relatively small town which would have the strongest correlation to Petersham.

Table 7-1: Ratio of Revenue to Expenses for Whately

Whately	
Population	1,513
Total Town Budget	\$5,572,091
Zoning Type	Revenue : Expenses
Residential	\$1 : \$1.13
Commercial/Industrial	\$1 : \$0.56
OpenSpace	\$1 : \$0.46
Town Overall	\$1 : \$0.98

Source: Fiscal Impacts of Land Use in Massachusetts

The Town receives payments-in-lieu-of-taxes (PILOT) from the state for land conserved to protect the Quabbin Watershed. These payments are based on a complex formula which factors in Petersham’s zoning criteria, meaning that changes to zoning requirements such as frontage or lot size could alter the amount of money Petersham receives from the state. The PILOT payments are likely more than the Town would earn from taxes if the land were in private ownership and enrolled in any of the Chapter 61 programs because of the associated tax incentives. Clarification around this issue may help the Town identify conservation priorities.

Massachusetts Joint Bill ([H.897/S.447](#)), *An Act relative to the Quabbin watershed and regional equity*, is a piece of proposed legislation seemingly stalled in the Massachusetts legislature. If passed, the bill would raise PILOT payments in the Quabbin Watershed, which could increase Petersham’s budget and ability to engage in future conservation and recreation efforts.

Becoming a Massachusetts Community Preservation Act community would enable the town to apply for matching grant funds for projects involving open space, historic preservation, affordable housing, and outdoor recreation. The town would have to do so by passing a referendum which includes approving a real property surcharge of up to 3%, which would fund

the program in Petersham. The abutting town of Phillipston has become a CPA community, as have Templeton, Hubbardston, Shutesbury, Pelham, and Belchertown.

Communication

There is a desire for increased communication regarding multiple facets of open space and recreation, as evidenced by comments in the survey and community engagement meetings. Residents are seeking increased awareness of recreation opportunities especially around open space, both online and at the point of recreation. In the case of passive recreation, they also desire site-specific interpretational materials. Specific sites referred to include Babbitt Wildlife Sanctuary and the Poor Farm.

Whereas many residents are well informed about the financial benefits afforded by Chapter 61 and the Right of First Refusal, many are not. There is a need for better information about these programs. Because the state is considering making changes to the program for greater accessibility for landholders, it is an appropriate time to provide refresher courses. The same can be said of the Community Preservation Act and other conservation tools such as easements and use agreements which may allow access or conservation without removing properties from the tax roll. Residents have also expressed an interest in presentations and workshops about these tools and programs.

There is a need to inform residents and Town personnel of the existing cultural use rights of Indigenous groups in the region. More information about these rights can be found in Massachusetts State Executive Order 126 of 1976, the Maritime Treaty (aka Treaty of Portsmouth) of 1713, and the Treaty of Falmouth of 1727 and 1749.

Access to open space is another stated desire. In practice this is really a desire to know what is accessible. But there are instances where it refers to being allowed to use a space. An example is Petersham Center School, which many people would like to use for recreation. It is often locked outside of school hours, and there is little awareness of when it might be available for recreation purposes outside of those hours. Residents would also like more access to other restricted access areas, such as DCR land, and want a better understanding of what activities are allowed in those areas. Access may not always be possible because of sensitive habitats and watershed protections, and specific activities may be restricted for those same reasons.

One particular challenge regarding communication is that the website manager for the Town only works one day per week.

Nichewaug Inn Site

The fate of the former Nichewaug Inn site was a large component of the survey, meetings, and many conversations. There are myriad suggested uses and many of these could potentially be combined into one design. Now that the building has been taken down, the town should commit to a new feasibility study or a request for design proposals which the town can vote on.

Comprehensive Planning

A perceived need or desire for housing, specifically cluster housing or deed-restricted Affordable Housing and Senior Housing, has been a recurring theme throughout the survey and community engagement meetings. Based on the nature of feedback there seems to be a lack of consensus of what is possible under current zoning rules, especially the more recent additions regarding backlots and subdivisions. There also seem to be differing opinions on the effects that these regulations may have on open spaces such as wildlife corridors or rural characteristics such as viewsheds along scenic roads. Other considerations that have arisen through the survey, community engagement meetings, or numerous individual and group conversations are the siting of solar installations, the potential of a commercial district, and the longevity of current septic systems. While many of these topics are relevant to an OSRP and can be informed by an OSRP, they would be better addressed in a Comprehensive Plan which can assess, modify, and synthesize the findings of this OSRP, the 2024 MVP, and past town plans, guidelines, and bylaws into a new cohesive and effective vision to help guide the town over the course of the next twenty years.

Community

The residents of Petersham have shown a remarkable level of engagement in their town. Many of them volunteer to serve on committees and boards. Still more fill out surveys and come to meetings and engage one another in thoughtful, constructive conversations. There will no doubt be individuals who step forward to carry the action items forward.

Section 8 Goals and Objectives



Community engagement meeting, Petersham Center School, March 2, 2024.

GOAL 1. Petersham will retain its beauty, unique sense of place, and rural character by protecting the health and integrity of its natural assets, including but not limited to its air, drinking water, wetlands, soils, scenic views, working farms, fields, and forests, large blocks of connected forestland, and the diversity of its native flora and fauna.

Objectives:

- A. Protect ecosystems from destruction and fragmentation and establish guidelines for growth that minimize development in inappropriate areas.
- B. Protect and expand the town's large intact forest blocks and wildlife corridors.
- C. Protect the town's working farmland and forestland, cultural and heritage landscapes, and scenic viewsheds.
- D. Protect the town's surface water, ground water, and wetland resources.
- E. Protect historic landscape features from destruction or inappropriate alteration, and encourage climate-conscious, adaptive reuse of historic buildings.

GOAL 2. Petersham will enhance the quality, variety, and accessibility of its open spaces and recreational offerings for the health, well-being, safety, and enjoyment of all residents and visitors.

Objectives:

- A. Ensure that large portions of the town's open space remain open to the public.
- B. Provide adequate access to active recreation facilities for field sports and court sports.
- C. Increase and promote passive and other recreational activities in and on town properties within or near the town center.
- D. Enhance access and connectivity to hiking and multi-use trails, walking paths, and bike paths, and ensure best roadside management practices for safe pedestrian use of roadways for walking, jogging, running, and bicycling.
- E. Explore options for swimming and ice skating.

GOAL 3. Petersham will increase climate-resilient land practices and active community stewardship of its open spaces, public byways, and private lands.

Objectives:

- A. Monitor and minimise non-point pollution sources.
- B. Survey, map, manage, and monitor invasive plant and insect species throughout town.
- C. Increase the presence of native plants, chosen to suit the conditions and functional need of their specific location, throughout town.
- D. Inventory and protect vernal pools and wetlands throughout town.
- A. Encourage land use practices that optimize carbon sequestration and biodiversity.

GOAL 4. Petersham will improve communication among town departments, committees, and residents to increase public awareness about open space access, inclusive cultural and recreational uses, land conservation, and stewardship.

Objectives:

- A. Keep the town up to date with changing rules around state and federal conservation tools.
- B. Provide a collection of online resources.
- C. Provide a collection of resources for in-person viewing and/or distribution.
- D. Conduct meetings, workshops, and programs about open space, conservation, and recreation.



Information kiosks at trailheads could make trails more visible and welcoming, as well as disseminate information.

Section 9 Seven-Year Action Plan



Woods road toward Swift River. Courtesy of Harvard Forest.

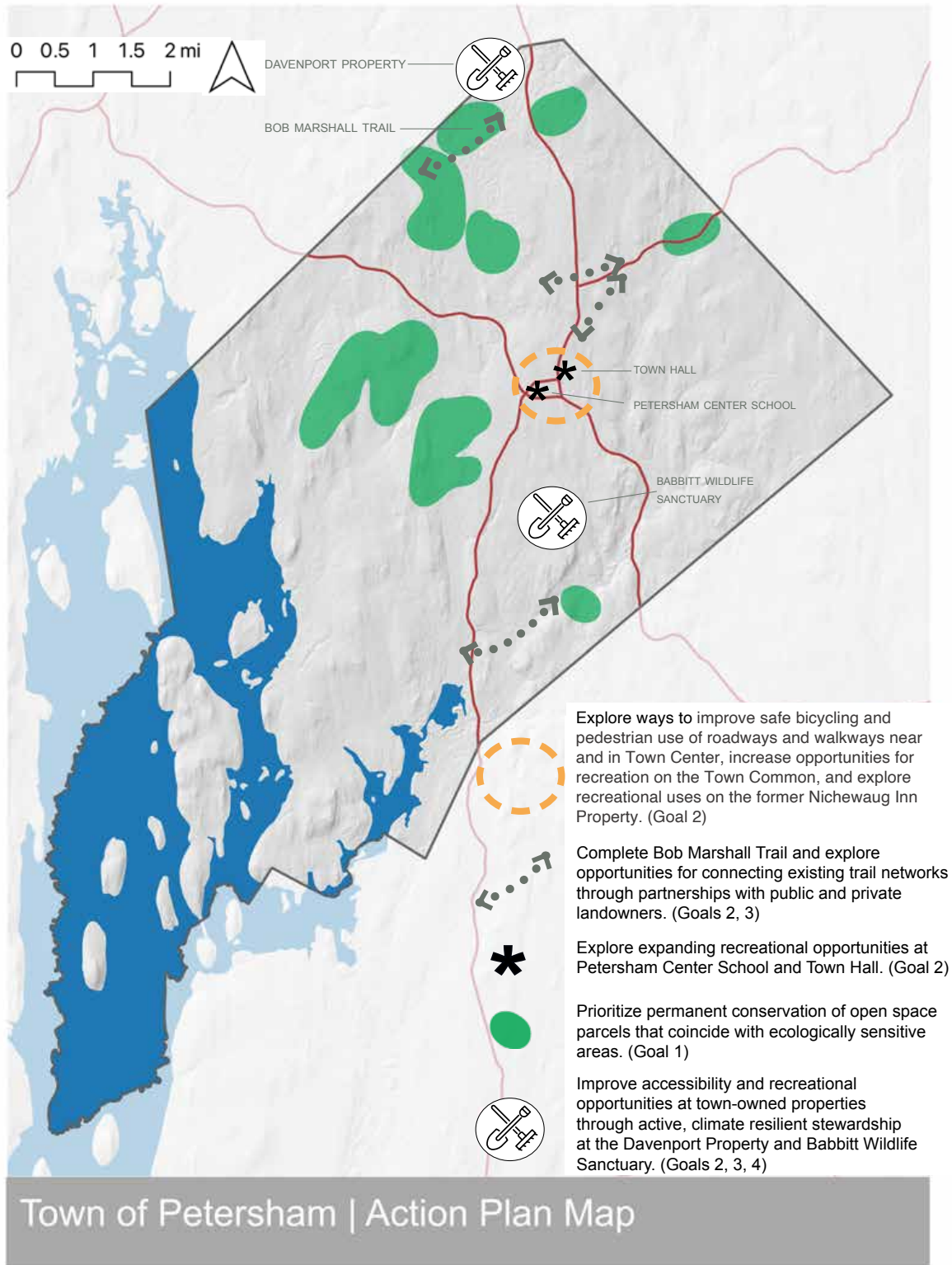
The Seven-year Action Plan offers a list of specific action items to serve Petersham as it makes choices about open space and recreation planning and projects over the next seven years. Each action item is in accordance with the objectives, goals, and vision of the residents of Petersham as written in *Section 6: Community Vision*.

The vision revolves around Petersham's open space and natural resources—providing opportunities for the community and visitors alike to enjoy the rural character and recreational opportunities afforded by them and remaining sustainably affordable while protecting them. These open spaces and natural resources include the air and water, wetlands, soils, scenic views, historic and cultural sites, working farms, fields, forests, and the diversity of its native flora and fauna.

There are four primary goals with associated objectives, which are driven by the vision. These inform the specific action items listed in the Seven Year Action Plan. These goals, objectives, and action items sometimes overlap and at other times conflict. It is important to identify responsible, willing, reciprocal partners for the furtherance of these goals and objectives through the action items. These partners will have to parse out the inherent conflicts such as a desire for development or growth and a desire to protect habitat. This is a living document and needs periodic review and revision as deemed appropriate as the town works through these issues.

Each action item corresponds to an objective(s) and goal and is prioritized in descending order. It has suggested partners and funding sources as well as a timeline. The Action Plan Map graphically indicates and encapsulates the general scope of the action items. It does not seek to identify specific parcels. The exceptions are the former site of the Nichewaug Inn because it is a focal point of community interest and the Davenport Pond Property and Babbitt Wildlife Sanctuary because these parcels are stewardship priorities.

Map 9-1: Action Plan



GOAL 1. Petersham will retain its beauty, unique sense of place, and rural character by protecting the health and integrity of its natural assets, including but not limited to its air, drinking water, wetlands, soils, scenic views, working farms, fields, and forests, large blocks of connected forestland, and the diversity of its native flora and fauna.

Objectives:

- A. Protect ecosystems from destruction and fragmentation and establish guidelines for growth that minimize development in inappropriate areas.
- B. Protect and expand the town's large intact forest blocks and wildlife corridors.
- C. Protect the town's working farmland and forestland, cultural and heritage landscapes, and scenic viewsheds.
- D. Protect the town's surface water, ground water, and wetland resources.
- E. Protect historic landscape features from destruction or inappropriate alteration, and encourage climate-conscious, adaptive reuse of historic buildings.

Action Items in Order of Priority (Relevant Objectives)	Potential Partners	Timeline	Funding/Resources
1) Identify and inventory non-permanently protected open spaces (e.g., forest, wetlands, meadows, fields, croplands, pastures, orchards, hayfields) that coincide with ecologically sensitive areas. Use Maps 4-7 for guidance on identifying unprotected lands. (A, B, C, D)	Open Space and Recreation Committee (OSRC), Conservation Commission, Harvard Forest, East Quabbin Land Trust (EQLT), Montchusett Regional Planning Commission MRPC	2025-2031	MRPC District Local Technical Assistance Program (DLTA), Volunteer time
2) Ground truth the protection priorities as described in Section 7: Analysis of Needs (A, B, C, D, E)	OSRC Conservation Commission, Residents,	2025-2026	Volunteer time
3) Consider developing prioritization guidelines that can be applied to individual parcels to help the Town with protection and acquisition decisions, particularly when there may be conflicting conservation priorities on a given parcel. Consider modeling these prioritization guidelines on the 2016 Petersham Farmland Inventory guidelines. (A, B, C, D)	OSRC, Conservation Commission, Selectboard, Planning Board, MRPC EQLT, Mount Grace, residents	2025-2031	MRPC DLTA Volunteer time
4) Determine the protection tools (e.g., CRs, easements, tax titles, first right of refusal) that are appropriate for each protection priority or parcel of interest. (A, B, C, D)	OSRC, Conservation Commission, Selectboard, Board of Assessors, MRCP, EQLT, Mount Grace	2025-2031	MRPC DLTA Volunteer time

5) Perform the Step-By-Step Guide to Conduct Cost of Community Services Ratios for your Massachusetts Town. (A, B, C)	OSRC, Advisory Finance Committee, Board of Assessors	2025-2027	Volunteer time
6) Identify financial partners to help in acquisition in case there are parcels deemed to be of high acquisition priority. (A, B, C)	OSRC, EQLT, Mount Grace, residents	2025-2031	MA LAND grant MA Land and Water Conservation Fund Program, MA Municipal Vulnerability Preparedness (MVP) Action Grant, Volunteer time
7) As opportunities arise, use Petersham's legal authority to acquire tax title lands for open space. (A, B, C)	OSRC, Selectboard, Conservation Commission	2025-2031	Town
8) Educate and advocate for the town to become a Community Preservation Act (CPA) community, enabling the town to apply for matching grant funds for projects involving open space, historic preservation, affordable housing, and outdoor recreation. (C, E)	OSRC, Advisory Finance Committee, Selectboard, Historic District Commission, residents	2025-2031	Volunteer time, Community Preservation Coalition Technical Assistance
9) Consider working with other towns in the Quabbin Watershed to advocate for increased state PILOT payments to potentially increase funds available for land conservation. (A, B)	OSRC, North Quabbin Regional Landscape Partnership, Athol, Barre, Belchertown, Hardwick, New Salem, Orange, Pelham, Phillipston, Shutesbury, Ware, Wendell	2025-2031	Volunteer time
10) Monitor joint Bill H897/S447 regarding PILOT payment changes with an eye toward advocacy. (A, B)	OSRC, Selectboard, Advisory Finance Committee	2025-2031	Volunteer time
11) Monitor upcoming legislative and regulatory changes which will make Chapter 61 and 61A more accessible to landowners, per the Massachusetts Clean Energy and Climate Plan for 2025 and 2030. (A, B, C)	OSRC, Selectboard	2025-2031	Volunteer time
12) Continue working with Mount Grace Land Trust to update Petersham's Farmland Inventory. (C)	OSRC, Mount Grace	2025-2031	Volunteer time

13) Consider developing a Comprehensive (Master) Plan that clarifies resident housing and development needs and considers the potential impacts of different development approaches on open space. Consider scenario planning to address potential changes in population or development needs. (A, B, C, D, E)	OSRC, Selectboard, Planning Board, residents	2025-2031	MA Community Planning Grant, Volunteer time
14) Continue working with the Planning Board to review and adapt its environmentally based site review process as ecological form and function considerations change due to Climate Change and other environmental stressors. (A, B, C, D, E)	OSRC, Conservation Commission, Planning Board, Zoning Board of Appeals, Building Inspector	2025-2031	MVP Action Grant, MRPC DLTA, Volunteer time
15) Continue working with the Conservation Commission to develop a local wetlands bylaw. (D)	OSRC, Conservation Commission Mass. Association of Conservation Commissioners (MACC), MRPC	2025-2028	MRPC DLTA, Volunteer time, MACC educational resources
16) Obtain public trail easements and/or public access to open space as part of new development projects. (A)	OSRC Conservation Commission Local land trusts	2025-2031	Town
17) Consider working with the Planning Board to update the Scenic Roads By-law. (C, E)	OSRC, Planning Board MRPC	2025-2031	MRPC DLTA, Volunteer time
18) Inventory historic buildings and other locations, especially outside of the town center, that are important to the historic or cultural heritage or scenic viewshed of Petersham. (C, E)	OSRC, Historical District Commission	2025-2031	Mass. Historical Commission (MHC) Survey and Planning Grant Program, Volunteer time
19) Consider instituting bylaws governing light pollution. (A, B, C, D, E)	OSRC, Planning Board MRPC	2025-2031	MRPC DLTA, Volunteer time

<p>20) Work with the Board of Health to address PFAS contamination of well water supply. Provide resources on the Town website to inform residents of the presence of PFAS in well waters and its potential ecological impacts. Encourage private homeowners to test and potentially treat for PFAS in wells. Potential resources to include: the Online Searchable Laboratory Certification Listing, the Mass Be Well Informed (BWI) online lab result interpretation tool, and PFAS sample collection procedures. (D)</p>	<p>OSRC, Board of Health, Conservation Commission</p>	<p>2025-2031</p>	<p>Toxic Use Reduction Institute (TURI) Community Grants, Volunteer time</p>
<p>21) Monitor the salinity levels of the wetland adjacent to the Highway Department salt and sand shed. (D)</p>	<p>OSRC, Highway Department, Board of Health, Conservation Commission</p>	<p>2025-2031</p>	<p>DEP Water Monitoring Grant Program, Volunteer time, DCR Watershed System Salt Reduction information resources</p>
<p>22) Develop programming to encourage residents on developed prime agricultural soils in the town center to adopt best landscape management practices to protect this precious resource from erosion, damage, and compaction. (C, D)</p>	<p>OSRC, EQLT, Mount Grace, Northeast Organic Farming Association (NOFA)</p>	<p>2025-2031</p>	<p>MA Healthy Soils Action Plan Implementation Grant, National Resources Conservation Service educational resources, NOFA educational resources, Volunteer time</p>

GOAL 2. Petersham will enhance the quality, variety, and accessibility of its open spaces and recreational offerings for the health, well-being, safety, and enjoyment of all residents and visitors.

Objectives:

- A. Ensure that large portions of the town's open space remain open to the public.
- B. Provide adequate access to active recreation facilities for field sports and court sports.
- C. Increase and promote passive and other recreational activities in and on town properties within or near the town center.
- D. Enhance access and connectivity to hiking and multi-use trails, walking paths, and bike paths, and ensure best roadside management practices for safe pedestrian use of roadways for walking, jogging, running, and bicycling.
- E. Explore options for swimming and ice skating.

Action Items in Order of Priority (Relevant Objectives)	Potential Partners	Timeline	Funding/Resources
1) Determine appropriate uses for all town-owned parcels for various user groups (e.g., hunting, hiking, snowmobiling, bird watching, dog walking, ice skating). (A)	OSRC, Conservation Commission, MRPC stakeholder groups, residents	2025-2031	MRPC DLTA Volunteer-time
2) Establish protocols around using Town Hall for indoor active recreation. (B, C)	OSRC, Selectboard, residents	2025-2031	Volunteer Time
3) Identify open space areas in Town that can be used seasonally for lawn games, such as the Town Common. (C)	OSRC	2025-2027	Volunteer Time
4) Identify space-appropriate recreation for Town-owned indoor venues and seek partners, whether organizations, interest groups, or individuals, who could facilitate those activities. (C)	OSRC, Stakeholder groups, Town organizations, residents	2025-2031	T-Mobile Hometown Grant, Volunteer time
5) Identify and collaborate with other organizations, private properties, and indoor public venues in Town, such as the library, to host recreational activities. (C)	OSRC, Petersham Memorial Library, Town organizations, residents,	2025-2031	Petersham Cultural Council Grant, Volunteer time
6) Establish protocols around reserving active recreation time at the Center School, including how to reserve indoor courts, accessibility, and fees. Ensure that outdoor courts are available for use outside of school hours. (B)	OSRC, Center School/School Board	2025-2027	Volunteer time

7) Review conservation restrictions and record any special conditions. Note easements that particularly address public access and use of those lands. (A)	OSRC, Conservation Commission, Board of Assessors, Selectboard	2025-2031	Volunteer time
8) Consider a new feasibility study of the former Nichewaug Inn property that explores, for example, a covered, open-air community gathering space, active and/or passive recreation and/or additional housing. (B, C)	OSRC, Selectboard, Planning Board, MRCP residents	2025-2031	MA Planning Assistance Grant, MA Rural Small Town Development Fund, T-Mobile Hometown Grant, MA PARC Program, Volunteer time
9) Identify parcels with possible swimming holes in town. Consider budgeting Conservation Commission funds to acquire suitable parcels that come up for sale in the future. This could be a CPA project. (E)	OSRC, Conservation Commission, residents	2025-2031	Volunteer time
10) Reach out to landowners in areas identified for trail connections (map 5-4: Trails) to determine their willingness to grant the town access. (D)	OSRC, Conservation Commission, EQLT, Mount Grace, residents	2025-2031	Volunteer time
11) Obtain public trail easements and/or public access to open space as part of new development projects. (D)	OSRC, Conservation Commission, Selectboard	2025-2031	Town, Volunteer time
12) Have a meeting with groups involved in trail construction and maintenance in town to discuss establishment of a comprehensive cooperative arrangement between the Town, Harvard Forest, The Trustees of Reservations, the Mass Audubon Society, other organizations, trail tenders, and property owners to facilitate coordinated trail construction and maintenance and possibly property maintenance. (D)	OSRC, Conservation Commission, Harvard Forest, The Trustees, Mass Audubon, EQLT, Mount Grace, landowners, and managers	2025-2031	Volunteer time
13) Verify and inventory trails in town with georeferencing. Compile and prioritize a comprehensive list of construction and maintenance needs for Town-owned or maintained trails. While Section 7 mentions some trail needs, the list is by no means exhaustive and because trail maintenance is an ongoing need this list will need constant updating. (D)	OSRC, Conservation Commission, MRPC, residents	2025-2031	MRPC DLTA, Volunteer time
14) Inventory public access hunting areas to mitigate conflicts when siting possible trails. (D)	OSRC, EQLT, Mount Grace, Petersham Gun Club, residents	2025-2031	Volunteer time

15) Establish town-wide volunteer-based trail clean-up and building days to increase knowledge of and connection to trails throughout Petersham. (D)	OSRC, EQLT, Mount Grace, residents	2025-2031	MassTrails Grant, Volunteer time
16) Assess suitability of Town trails for All-Persons Trails requirements. (D)	OSRC, Selectboard, stakeholders, residents	2025-2031	MA Municipal ADA Grant Program, MassTrails Grant, Volunteer time
17) Assess the need for parking improvements at the sites identified in Section 7: Analysis of Needs. (A, D)	OSRC, Conservation Commission, Selectboard	2025-2031	MA Municipal ADA Grant Program, Volunteer time
18) Davenport Pond Property: Consider improvement to the entrance and parking area and establish new trails if warranted. Continue pursuing action on the Davenport Dam, including consideration of repair versus removal. Assess what other structures may need removal for safety. (D)	OSRC, Conservation Commission, Selectboard	2025-2031	MA Land and Water Conservation Fund Program, MassTrails Grant,
19) Explore extending the network of sidewalks for safe recreational walking around the center of town, Spring Street, and upper portion of Hardwick Road. (C, D)	OSRC, Highway Department	2025-2031	Mass Dept. of Transportation (DOT) Shared Streets and Spaces Program, Volunteer time
20) Explore the potential of town-wide land-based festivals, events, or fairs to promote eco-tourism. (A, C)	OSRC, Town organizations, residents	2025-2031	Mass Office of Outdoor Recreation (MOOR) Inclusive and Accessible Grants Program, Volunteer time

GOAL 3: Petersham will increase climate-resilient land practices and active community stewardship of its open spaces, public byways, and private lands.

Objectives:

- A. Monitor and minimise non-point pollution sources.
- B. Survey, map, manage, and monitor invasive plant and insect species throughout town.
- C. Increase the presence of native plants, chosen to suit the conditions and functional needs of their specific location, throughout the town.
- D. Inventory and protect vernal pools and wetlands throughout town.
- E. Encourage land use practices that optimize carbon sequestration and biodiversity.

Action Items in Order of Priority (Relevant Objectives)	Potential Partners	Timeline	Funding/Resources
1) Create a priority schematic for stewardship of open space that protects and promotes clean water, clean air, contiguous forest and other habitat, and wildlife corridors. (A, B, C, D, E)	OSRC, MRPC Residents	2025-2031	DLTA Volunteer time
2) Consider participating in DCR's Community Forest Stewardship Program, enabling eligibility for Community Forest Stewardship Grants. (E)	OSRC, DCR	2025-2031	DCR Forest Stewardship Program for landowners, Volunteer time
3) Form a Land Stewardship Committee to build relationships with other stakeholder groups that have a volunteer need or base for land stewardship. (A, B, C, D, E)	OSRC, Conservation Commission Harvard Forest, Mount Grace, EQLT stakeholder groups, recreational user groups (mountain biking, hiking, bird watching, dog walkers, etc.), youth groups	2025-2027	Volunteer time
4) Partner with the Center and Mahar Schools to engage students in land stewardship projects and climate resiliency tools. (A, B, C, D, E)	OSRC, Center School, Mahar School, School Board	2025-2031	MVP Action Grant, Volunteer time
5) Consider working with other towns in the Quabbin Watershed to advocate for increased state PILOT payments to potentially increase funds available for land stewardship. (A, B, C, D, E)	OSRC North Quabbin Regional Landscape Partnership Athol, Barre, Belchertown, Hardwick, New Salem, Orange,	2025-2031	Volunteer time

	Pelham, Phillipston, Shutesbury, Ware, Wendell		
6) Work with Harvard Forest to educate landowners about land care practices, including forest management practices, that optimize carbon sequestration. (E)	OSRC, Harvard Forest	2025-2031	Volunteer time
7) Consider hiring Nipmuc community members to steward Town-owned ancestral Nipmuc lands. (A, B, C, D, E)	OSRC, Harvard Forest, Nipmuc community	2025-2031	Mass Wildlife Habitat Management Grant Program
8) Continue pursuing a cooperative arrangement between the Town, Harvard Forest, MassDOT Highway, The Trustees, Mass Audubon Society, and private property owners to provide action in the control of invasive species. (B)	OSRC, Harvard Forest, MassDOT Highway, The Trustees, Mass Audubon Society, landowners, and managers	2025-2031	Volunteer time
9) Continue to inventory vernal pools in Petersham and pursue certification through the Mass. Natural Heritage and Endangered Species Program so that they might be protected by state regulations. (D)	OSRC, Conservation Commission	2025-2031	Volunteer time, Natural Heritage and Endangered Species vernal pool certification guidelines
10) Hold a public meeting to prioritize invasive species management and identify locations of greatest concern on Town-owned properties. Rally volunteers for work parties to tackle top ranking projects. (B)	OSRC, Conservation Commission, Selectboard, Town Highway Department	2025-2027	Mass Wildlife Habitat Management Grant Program, Volunteer time
11) Develop planting plans or recommendations to fill vegetative voids created by invasive species removal or die-back of plant clusters because of adverse climate conditions and pests. Prioritize plants that will serve specific functions within the locale being planted. (C)	OSRC, Conservation Commission, Native Plant organizations, and conservationists	2025-2027	Mass Wildlife Habitat Management Grant Program, Volunteer time
12) Verify outlets and assess effects of stormwater and potential street pollutants at the outlet site as well as adjacent wetlands and waterways. (A)	OSRC, Conservation Commission, Selectboard, Town Highway Department	2025-2031	DEP Water Monitoring Grant Program, Volunteer time

13) Work with Mass DOT Highway to designate lower salt areas on portions of state highways near sensitive water resources. (A)	OSRC, Conservation Commission, Selectboard MASS DOT Highway,	2025-2031	Town, Volunteer time, DCR Watershed System Salt Reduction information resources
14) Explore septic alternatives suitable for Petersham's soils and ensure proper siting and functioning of septic systems. (A)	OSRC, Conservation Commission, Selectboard, Planning Board, Board of Health	2025-2031	TBD Town Volunteer time
15) Develop trail management strategies to protect trails and surrounding habitat when the ground is saturated. (E)	OSRC, EQLT, Trustees, Mount Grace	2025-2031	TBD Volunteer time
16) Engage with the forestry industry in town to come up with ideas for managing wet soils and logging operations. (A, E)	OSRC, Conservation Commission, Harvard Forest, stakeholders	2025-2031	TBD Volunteer time
17) Compile combined inventories of historic cemeteries, stone walls, mill sites, cellar holes, and foundations. Create a committee or partner with interest groups to maintain or preserve them. (E)	OSRC, Historic District Commission, Cemetery Commission	2025-2031	MHC Grant Program Volunteer time
18) Work with Harvard Forest to create Conservation Corps programs and apply for grants through Harvard Forest to support a Conservation Corps Manager to oversee such programs. (E)	OSRC, Harvard Forest,	2025-2031	TBD Volunteer time
19) Adopt climate-smart forest management practices as per the Massachusetts Clean Energy and Climate Plan for 2025 and 2030. (E)	OSRC, Harvard Forest, Conservation Commission	2025-2031	TBD Volunteer time
20) Continue working with the Conservation Commission to develop a local wetlands bylaw in recognition of wetlands' outstanding carbon sequestration capabilities. (D, E)	OSRC, Conservation Commission	2025-2028	MACC information resources, Volunteer time
21) Adopt the Municipal Vulnerability Preparedness Plan begun in 2024 and ensure that its objectives are consistent with this OSRP's climate resiliency priorities. (A, B, C, D, E)	OSRC Selectboard Residents	2025	Town Volunteer time

<p>22) Work with the Conservation Commission and Highway Department in cooperation with the Emergency Management Committee and Police Department, Harvard Forest, The Trustees of Reservations, and Mass Audubon to develop plans and procedures in the event of extreme storm events. (A, E)</p>	<p>OSRC, Town, Harvard Forest, Trustees, Mass Audubon</p>	<p>2025-2031</p>	<p>MVP Action Plan, Volunteer time</p>
<p>23) Conduct yearly assessments and potential reprioritizations of the 2024 OSRP Action Items. (All OSRP Objectives)</p>	<p>OSRC</p>	<p>2025-2031</p>	<p>Volunteer time</p>
<p>24) In 2029 start preparing for updating the next OSRP and complete before the previous one expires. (All OSRP Objectives)</p>	<p>OSRC, OSRP Committee</p>	<p>2029</p>	<p>Volunteer time</p>

GOAL 4: Petersham will improve communication among Town departments, committees, and residents to increase public awareness about open space access, inclusive cultural and recreational uses, land conservation, and stewardship.

Objectives:

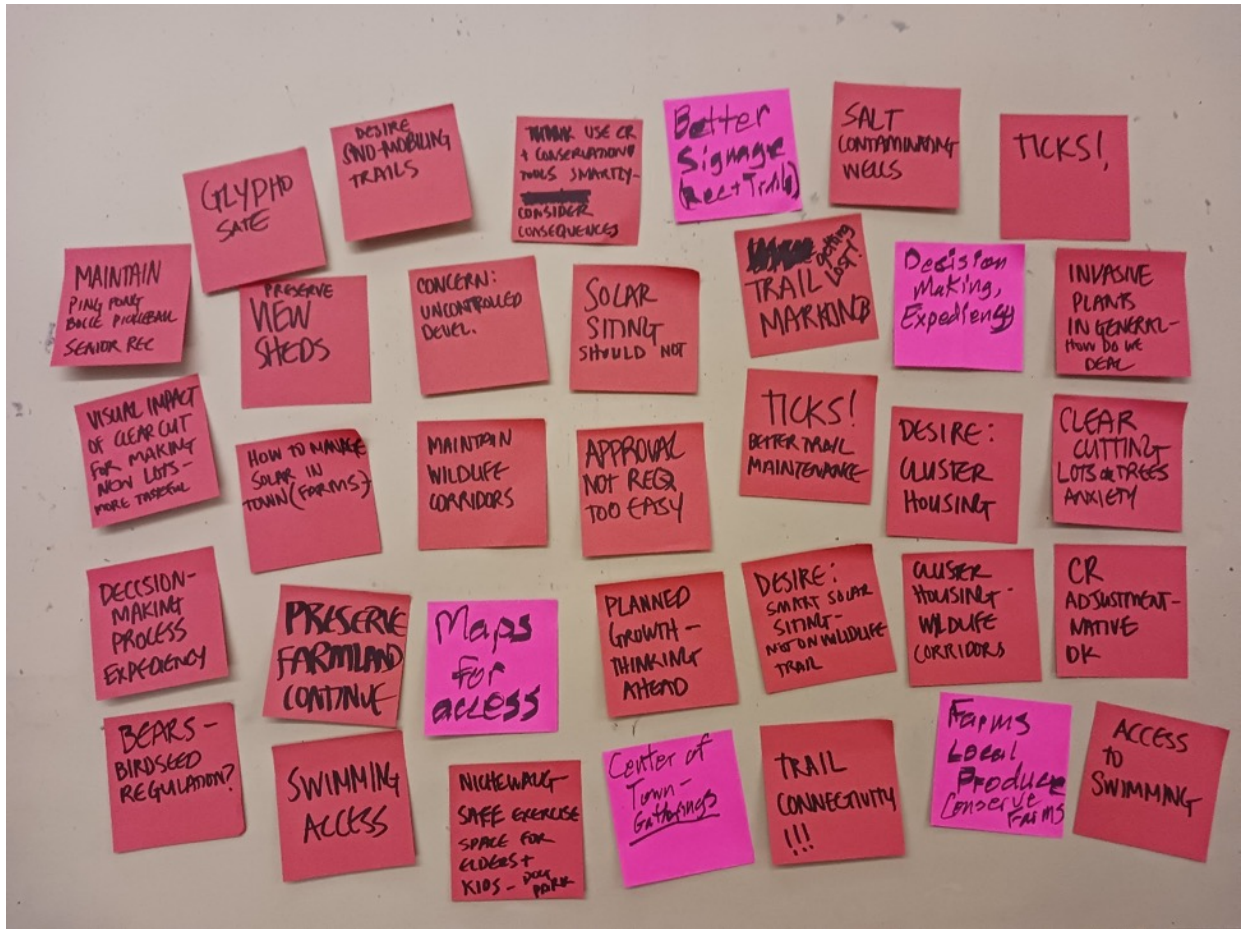
- A. Keep the town up to date with changing rules around state and federal conservation tools.
- B. Provide a collection of online resources.
- C. Provide a collection of resources for in-person viewing and/or distribution.
- D. Conduct meetings, workshops, and programs about open space, conservation, and recreation.

Action Items in Order of Priority (Relevant Objectives)	Potential Partners	Timeline	Funding/Resources
1) Follow up with prospective volunteers from Fall 2023 OSRP Survey to form interest groups. (A)	OSRC	2025-2027	Volunteer time
2) Explore opportunities to acknowledge the impact of colonial settlement on Indigenous communities in Petersham and the region. Consider forming a <i>Truth, Understanding and Reconciliation Commission in Nichewaug (TURN.)</i> (A, B, C, D))	OSRC, Mount Grace, Harvard Forest, Nipmuc communities	2025-2031	Volunteer time
3) Partner with organizations that already have established relationships with Nipmuc groups to enter conversations about land rematriation, preservation priorities, and cultural use agreements after establishing a Truth Commission. (A, B, C, D)	OSRC, Mount Grace, Harvard Forest, Nipmuc communities	2025-2031	Volunteer time
4) Inform residents and Town personnel of the existing cultural use rights of Indigenous groups in the region. (A)	OSRC, Mount Grace, Harvard Forest, Nipmuc communities	2025-2027	Volunteer time
5) Post information online and in publicly accessible areas regarding the continued presence and cultural-use-rights of Indigenous Peoples. (B, C)	OSRC, Mount Grace, Harvard Forest, Nipmuc communities	2025-2027	Volunteer time
6) Identify where hunting is allowed or encouraged in Petersham. Make that information available to the public, along with contextual information about cultural use and forest regeneration. (B, C)	OSRC, stakeholders, residents	2025-2027	Volunteer time

7) Improve the Town website and online events calendar to reflect recreational activities in town. Include guides to when and where recreational activities are allowed. (B)	Selectboard, OSRC, Town Administrator	2025-2027	TBD Volunteer time
8) Consider hosting a Mahar student project to build an interactive town map with recreation data layers. For example, the pickleball layer, when clicked, would show all pickleball court locations in town. Recreational interests could include fishing, hunting, hiking, bird watching, etc. (B)	OSRC, Mahar Regional School, School Board	2025-2031	Volunteer time
9) Post resources for Chapter 61 programs, Conservation Restriction easements, Agricultural Preservation Restrictions, and forest management and stewardship plans on the Town's website. (A)	Town Administrator, OSRC, Conservation Commission, EQLT Mount Grace, Harvard Forest	2025-2031	Volunteer time
10) Combine existing trail maps currently available through Harvard Forest, The Trustees, Mass Audubon, DCR, Mount Grace, East Quabbin Land Trust, and others into one comprehensive map for physical and digital distribution. Look into inclusion of recreational opportunities listed on the All-Trails app. (B, C)	OSRC, Harvard Forest, The Trustees, Mass Audubon, DCR, Mount Grace, EQLT, Montachusett Regional Planning Commission	2025-2031	MRPC DLTA, Volunteer time
11) Prepare a town-wide recreation, trailhead, and attractions map for physical and digital distribution. This may or may not be combined with the trail map. (B, C)	OSRC MRPC	2025-2031	MRPC DLTA, Volunteer time
12) Include responsible trail use information, such as carry-in/carry-out and use-guidelines for wet trails. (B, C)	OSRC	2025-2031	Volunteer time
13) Include contact information on the maps and at trailheads so that trail users can report trail maintenance needs such as washouts and trees across the path. (B, C)	OSRC	2025-2031	Volunteer time
14) Provide interpretive and educational materials (such as the <i>Slab City Tract Field Trip</i> booklet) for important natural and historic areas as online resources as well as printed materials. (B, C)	OSRC	2025-2031	Volunteer time

<p>15) Consider building kiosks at trailheads and in Town Center. The kiosks can feature large scale versions of the town-wide attractions map and trails map. These kiosks could also be used to distribute site-specific or town and regional maps or pamphlets. (C)</p>	<p>OSRC</p>	<p>2025-2031</p>	<p>MassTrails grant, MA Land and Water Conservation Fund Grant Program, Volunteer time</p>
<p>16) Partner with other organizations to provide in-person and/or online workshops to help land tenders to become effective stewards of the land. (D)</p>	<p>OSRC, EQLT, Mount Grace, Stakeholders</p>	<p>2025-2031</p>	<p>Volunteer time</p>
<p>17) Consider hosting workshops and informational meetings to inform residents about the State's carbon sequestration efforts and how they affect forestry guidelines, state forestry contracts, and programs like Chapter 61. Consider hosting these events around Chapter 61 renewal dates. (A, D)</p>	<p>OSRC, Conservation Commission, Selectboard, Harvard Forest, UMass Extension</p>	<p>2025-2031</p>	<p>Volunteer time</p>
<p>18) Partner with other organizations, such as East Quabbin Land Trust (EQLT), to host town-wide seminars on the effects of climate change on local and regional ecosystems. (D)</p>	<p>EQLT, Mount Grace, Harvard Forest, National Resource Conservation Services (NRCS)</p>	<p>2025-2031</p>	<p>Volunteer time</p>
<p>19) Consider hosting a town-wide meeting addressing the fragmentation of land and critical habitat by private holdings; advocate for abutting landowners to collaborate on forest management practices and provide appropriate resources, such as forestry management information and equipment sharing opportunities (D)</p>	<p>OSRC, Harvard Forest, EQLT, Mount Grace, DCR, Local Statewide Conservation Organizations</p>	<p>2025-2031</p>	<p>Volunteer time</p>

Section 10 Public Comments



Comments from Community Engagement Meeting, 2/3/2024.

Third Public Forum to Review the Draft Petersham Open Space and Recreation Plan 2024

The Conway Team, Petersham OSRC, and Core Team actively sought and responded to public feedback throughout the entire open space and recreation planning process. After reviewing the results of the public survey held in late 2023 and the input from two public engagement meetings held in early 2024, the Conway Team provided their final draft of the OSRP to the Core Team in April 2024. The Core Team reviewed the draft and made its revisions before posting it on the town's website on May 23rd for public review and comments until June 30th. A printed copy of the draft OSRP was available at Petersham Memorial Library during the public review period. A link to the draft OSRP was also posted on the Petersham Alert Network on Facebook and emailed to residents, town departments, and committees. The OSRC received comments by email and in person at the committee's regular public meeting on June 4th and at the public forum on June 25th.

The public forum on June 25th was conducted as an in-person/hybrid meeting at 6pm in Lower Town Hall. The meeting was advertised on the town's website, in two local newspapers, on the Petersham Alert Network on Facebook, and emailed to residents, town departments and committees. Flyers were posted in town center and a sandwich board advertising the meeting stood in front of Town Hall. 14 residents attended in person and 5 households attended by Zoom. Attendees represented members of the Selectboard, Planning Board, Conservation Commission, Board of Assessors, Advisory Finance Committee, Zoning Board of Appeals, Forest and Shade Tree Committee, Historic District Commission, the Grange, Town Moderator, and the Town Hall ADA Access Committee. The forum began with sign in and refreshments followed by time to review handout materials and ten enlarged maps on display from the draft OSRP. The maps included:

- Map 3-2: Land Cover in Petersham, MA, 2016
- Map 3-9: New Homes Built 2000-2023
- Map 3-10: Limited Build Out: Main Roads Only
- Map 4-2: Soils and Geologic Features: Wet Soils
- Map 4-3: Farmed Prime Soils
- Map 4-12: Habitat Connectivity
- Map 5-1: Open Space by Owner
- Map 5-2: Chapter 61 Land and Conservation Restrictions
- Map 5-4: Petersham Trails
- Map 5-5: Open Space by Level of Protection - Regional Context

Handout materials included the 7-year Action Plan Map and the proposed Goals, Objectives and Action Items. The following Powerpoint presentation summarized the public input process, actions accomplished or set in motion since the 2014 OSRP, highlights of the new plan, survey result highlights, BioMap, and priority action steps:

Petersham Open Space and Recreation Plan (OSRP)

Final Public Review Forum Agenda

- Sign-in, refreshments, preview materials
- Welcome / introductions
- Powerpoint Presentation of Draft OSRP / Input and Discussion
 - Goals and Objectives
 - 7-Year Action Plan / Priority Action Steps
- Closing Remarks

Public Comment Period ends Sunday, June 30th
email comments to Petershamosr@gmail.com

What is Open Space to Commonwealth of MA?



- Land that is permanently protected from development through conservation, government ownership, deed restriction, or conservation easement.
- Land that is not permanently protected but is used for farming, forestry, or recreation.
- Land that is not permanently protected or used for farming, forestry, or recreation, but is nonetheless still important for conservation or recreation.

Purpose of an Open Space and Recreation Plan



- Helps the town plan for the future of its open space and recreation resources.
- *Is informed by a thorough public participation process and reflects the needs of the community.*
- Is reviewed and approved by the Commonwealth's Division of Conservation Services (DCS) to ensure that it conforms to the OSRP requirements.
- When a community has an approved OSRP, it becomes eligible for DCS grant programs for land conservation and recreation projects for up to seven years.

Public Input Process for “OSRP” Update

Oct 23-Dec 1, 2023 – Public Survey (209 responses).

Jan 2024 – Conway School grad students begin OSRP update.

Feb 3 – 1st Public Forum, Lower Town Hall (81 attendees).

Mar 1 – Center School student poll of all grades (K-6th).

Mar 2 – 2nd Public Forum (35 attendees).

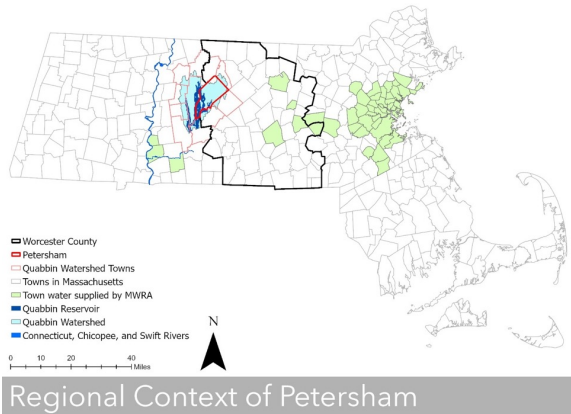
April– Final draft completed by Conway School Team.

May – Revised final draft shared with town boards and committees for review.

June 25, 2024 - 3rd Public Forum to review final draft OSRP. **NEAR THE FINISH LINE!**

What's Happened Since the 2014 OSRP

Map 3-1 Regional Context: MWRA Water Service

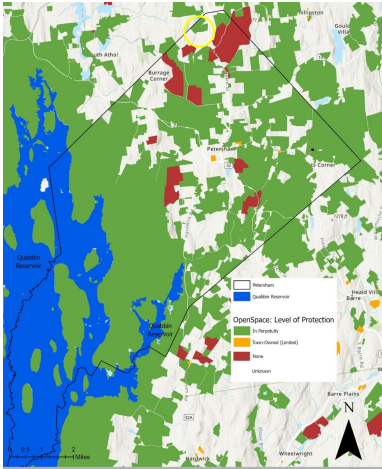


- > 1,500 acres conserved:
 - 100-acre King property, 235-acre Gross Farm, 760-acre Chimney Hill Farm, 646-acre Harvard Forest Tom Swamp Research Forest.
- Amendments to Zoning By-laws Section 4. Dimensional Requirements, Section 18. Solar Electric Installations, and Section 19. Subdivisions.
- Town purchase of ping pong, pickleball, badminton equipment, and lawn games.
- Demolition of the Nichewaug Inn/Maria Assumpta Academy.
- Land Court Judgment in favor of Petersham in Sunpin v. O'Neil, et al (Sunpin has appealed).
- Regional Equity Quabbin Watershed Bills S.447, H.897,S.2812 (pending).
- Municipal Vulnerability Preparedness Plan (MVP).

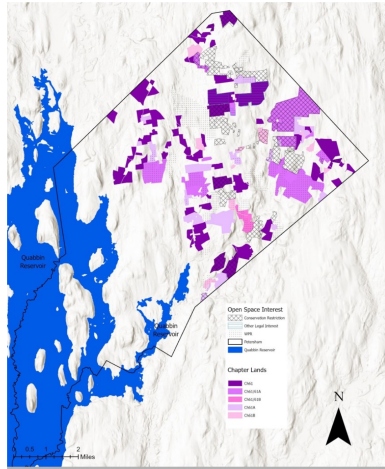
Highlights of the 2024 OSRP

- **24,757 acres of open space in permanent conservation**
 - **70.4%** of town's total **35,123 land acres** excluding Quabbin Reservoir (8,552 acres)
 - Petersham's total land area (land + Quabbin Reservoir) = 43,675 acres
- **Nipmuc history, presence today, cultural use rights**
 - Recognizing the harms inherent in Petersham's history between colonizers and their successors and the Nipmuc, including the scalp bounties Petersham was founded on.
 - Recognizing the aboriginal rights of the Nipmuc, or others, in their relationship with the Town of Petersham.
- **Stewardship initiatives**
 - Trail work, invasive plant management, encourage native plant diversity
- **Communication**
 - Boards, committees, town departments, and residents
- **Municipal Vulnerability Preparedness Plan**
 - OSRP goals dovetail with MVP

Permanent and Temporary Protected Land



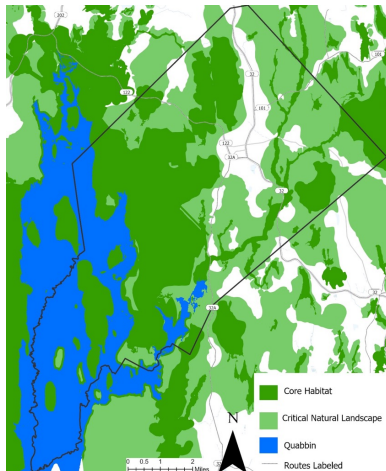
Petersham Open Space by Level of Protection



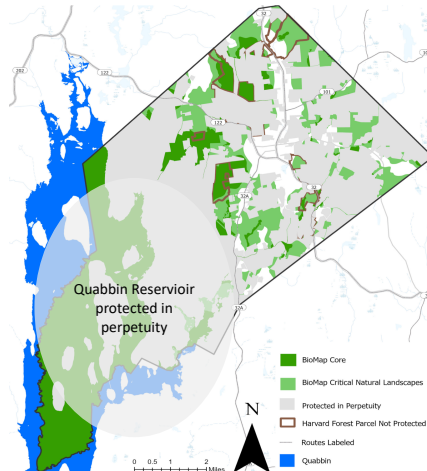
Chapter 61 Lands + Conservation Restrictions

- **24,757 acres permanently protected:**
 - **60%** publicly owned (**16,107 acres**) - DCR and DFG
 - **40%** Land Trusts, Harvard, private individuals (**10,477**)
- **6,674 acres is in Chapter 61 Program** (temporary protection, but some parcels overlap permanently protected land).

BioMap in Petersham



Habitat Connectivity



Protected and Unprotected BioMap Elements

Even though Petersham has put over 70% of its land into protection in perpetuity, BioMap Critical Habitat areas remain unprotected.

BioMap in the OSRP



An interactive online mapping tool developed by MassWildlife and The Nature Conservancy to guide strategic protection and stewardship of lands and waters that are most important for conserving biological diversity in Massachusetts.

<https://biomap-mass-eoea.hub.arcgis.com>

BioMap Components

- **Core Habitat** - areas that are critical for the long-term persistence of rare species, exemplary natural communities, and resilient ecosystems.
- **Critical Natural Landscape** - large landscape blocks that are minimally impacted by development, as well as buffers to core habitats and coastal areas, both of which enhance connectivity and resilience.
- **Local and Regional Components** - includes local habitats assessed and prioritized from the perspective of each city and town, and regional habitats that are particularly important for conservation success across the Northeast.
- **Climate Resilience.** BioMap supports conserving enduring, resilient places that will help buffer both nature and people from climate change impacts.

Community Survey Result Highlights – Open Space and Conservation

- Rural character is extremely important to Petersham residents.
- >90% desire to protect environmentally sensitive areas.
- >90% desire to protect unfragmented habitats and wildlife corridors.
- 92% indicated a desire to protect wetlands.
- 89% feel that protecting forests is important.
- 88% feel that protecting farmland is important.

Community Survey Result Highlights - Recreation

- Walking and hiking = most popular recreational activities.
 - *About 80% claimed to be satisfied with walking paths and hiking trails, but comments throughout the survey and at community forums belied this sentiment.*
- Greatest need for improvements, in order of importance:
 - indoor recreation spaces and courts for sports
 - activities for adults and seniors
 - playing fields and outdoor courts for sports
 - activities for teens and young adults
 - boat landing/access to water bodies
 - activities for children and youth
 - playground
 - sidewalks in the Town Center

Community Survey Result Highlights – Bridges

- Creating and improving relationships between the residents and Town of Petersham and the Nipmuc people. *The relevance to this OSRP lies in the potential of open space and recreation—the land itself—to serve as a bridge between these communities.*
- A pavilion was a recurring suggestion which might serve a valuable function for the community. *A thread throughout the survey and meeting comments evoked a desire for bringing people together.*

Vision Statement

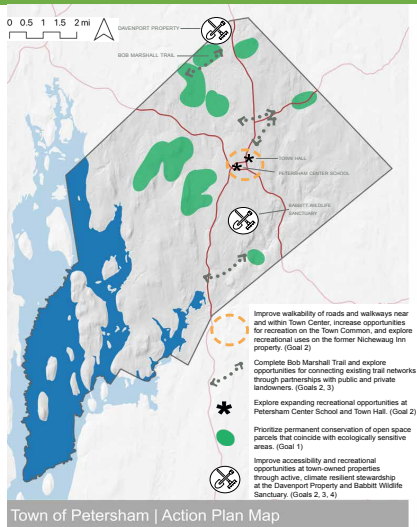
Petersham is a community that:

- ***conserves its open spaces where people and nature thrive together;***
- ***offers recreational opportunities to its residents and visitors alike; and***
- ***provides an affordable and financially sustainable path forward.***

2024 OSRP Goals

1. Petersham will retain its beauty, unique sense of place, and rural character by protecting the health and integrity of its natural assets, including but not limited to its air, drinking water, wetlands, soils, scenic views, working farms, fields, and forests, large blocks of connected forestland, and the diversity of its native flora and fauna.
2. Petersham will enhance the quality, variety, and accessibility of its open spaces and recreational offerings for the health, well-being, safety, and enjoyment of all residents and visitors.
3. Petersham will increase climate-resilient land practices and active community stewardship of its open spaces, public byways, and private lands.
4. Petersham will improve communication among town departments, committees, and residents to increase public awareness about open space access, inclusive cultural and recreational uses, land conservation, and stewardship.

2024 OSRP Priority Action Steps



- Improve safe bicycling and pedestrian use of roads and walkways.
- Increase opportunities for recreation on Town Common.
- Explore recreational uses on former Nichewaug Inn property.
- Complete Bob Marshall Trail.
- Explore opportunities for connecting existing trail networks.
- Explore expanding recreational opportunities at Center School and Town Hall.
- Prioritize conservation of open spaces that coincide with ecologically sensitive areas.
- Improve accessibility and recreational opportunities at Davenport Pond Property and Babbitt Wildlife Sanctuary.
- Implement climate resilient stewardship throughout the Town.
- Establish a Truth Commission to start the process at the town level to recognize the aboriginal rights of the Nipmuc, or others, in their relationship with the Town of Petersham.

Next Steps to Complete the OSRP



- Revise and edit the draft OSRP based on your input.
 - **Public comments due Sunday, June 30th**
 - Email Petershamosr@gmail.com
- Gather letters of review from specific town boards and committees:
 - Selectboard, Planning Board, ZBA, Board of Health, Conservation Commission, OS&RC, MRPC.
- Submit the final draft OSRP to the Division of Conservation Services (DCS) this summer.
- Wait to receive DCS approval of the OSRP, hopefully sometime in the fall.

Thank you!

We appreciate your participation in the update process and thank you for your feedback, assistance, and support!

To volunteer with us on land stewardship, trail projects, or recreation programs or to join the OS&R Committee, please email us at Petershamosr@gmail.com

Letters of Review / Support



July 16, 2024

Melissa Cryan
Division of Conservation Services
100 Cambridge Street, 9th Floor
Boston, MA 02114

Dear Ms. Cryan,

The Petersham Open Space and Recreation Committee submitted its draft 2024 Open Space and Recreation Plan (OSRP) to the MRPC for review and comment as per state requirements. According to the Town of Petersham, the OSRP was developed by a team of graduate students from the Conway School working closely with members of the Petersham OSRP Committee, its Core Planning Team, and community inhabitants. MRPC commends all for their months of hard work and their efforts to engage the community in creating a plan that best represents the town's vision and goals for open space and recreation over the next seven years.

MRPC staff has completed a review of Petersham's OSRP. To the best of my knowledge, the plan appears to contain all the required sections according to the Commonwealth of Massachusetts Open Space and Recreation Planners Workbook. MRPC believes that plan is in conformity with the goals, policies, and objectives of this region and the commonwealth. We support the submission of the 2024 Petersham OSRP to the Division of Conservation Services (DCS) for review and recommend that local officials of Petersham work with DCS staff should any additional information need to be corrected or required.

Sincerely,

A handwritten signature in blue ink, appearing to read "Glenn P. Eaton".

Glenn P. Eaton
Executive Director





**TOWN of PETERSHAM
OFFICE of the SELECTBOARD**

3 South Main Street / P.O. Box 486
Petersham, Massachusetts 01366

www.townofpetersham.org 978-724-3353 Fax 978-724-3501

July 5, 2024

Melissa Cryan
Division of Conservation Services
100 Cambridge Street, 9th Floor
Boston, MA 02114

Dear Ms. Cryan,

The Petersham Selectboard is pleased to endorse the town's 2024 Open Space and Recreation Plan (OSRP), which was prepared by graduate students from the Conway School working closely with members of the Open Space and Recreation Committee, its Core Planning Team, and the residents of Petersham. We have reviewed the plan, and we appreciate the many months of hard work involved in creating it. The plan and its stated goals and actions are consistent with the wishes and needs of the residents, and we are proud of what it reflects about our community. We look forward to all that can be accomplished with this plan to further guide open space protection and recreation in Petersham in the coming years.

Sincerely,

Susan Dougherty
Chair
Petersham Selectboard

TOWN OF PETERSHAM

Planning Board

3 South Main Street • Petersham, Massachusetts 01366

TEL: 978.724.3353 • FAX: 978.724.3501 • WEB: www.townofpetersham.org



July 8, 2024

Melissa Cryan
Division of Conservation Services
100 Cambridge Street, 9th Floor
Boston, MA 02114

Dear Ms. Cryan,

The Petersham Planning Board has reviewed the 2024 Open Space and Recreation Plan (OSRP) prepared by graduate students from the Conway School and members of the Open Space and Recreation Committee and its Core Planning Team. We find its description and analysis of existing inventory and future opportunities to be both thorough and accurate. The stated goals and action plan are consistent with the wishes and needs of the residents and will further the interest of the town in protecting and managing open space and recreation in the coming years.

Sincerely,

A handwritten signature in black ink, which appears to read "D. Fraser Sinclair".

D. Fraser Sinclair
Chairman
Petersham Planning Board



PETERSHAM CONSERVATION COMMISSION

3 South Main Street • P.O. Box 486 • Petersham, MA 01366-0486
978/724-3353 tel. • 978/724-3501 fax

July, 2024

Melissa Cryan
Division of Conservation Services
100 Cambridge Street, 9th Floor
Boston, MA 02114

Dear Ms. Cryan,

The Petersham Conservation Commission has reviewed the 2024 Open Space and Recreation Plan developed by the graduate students from the Conway School and members of the Open Space and Recreation Committee and its Core Planning Team, and we are pleased to support this plan. The updated plan provides the town, local departments, boards, and committees with a framework for continued land conservation and community recreation in Petersham. The Conservation Commission looks forward to working with the Open Space and Recreation Committee on specific action steps outlined in the plan that will help guide land use, management, and conservation decisions in Petersham over the next seven years.

Sincerely,

Michael J. Seitz
Chair
Petersham Conservation Commission

Section 11 References



Petersham Memorial Library, Petersham, Massachusetts.

“Analysis of Water Contamination in Massachusetts.” Massachusetts Sierra Club, 27 Oct. 2021.

Anderson MG, Ferree CE (2010) Conserving the Stage: Climate Change and the Geophysical Underpinnings of Species Diversity. *PLoS ONE* 5(7): e11554.[doi:10.1371/journal.pone.0011554](https://doi.org/10.1371/journal.pone.0011554).

Andrews, David Q., et al. “Discussion. Has the Human Population Become a Sentinel for the Adverse Effects of PFAS Contamination on Wildlife Health and Endangered Species?” *Science of the Total Environment*, vol. 901, 26 Sept. 2023, p. 165939, www.sciencedirect.com/science/article/pii/S0048969723045643, <https://doi.org/10.1016/j.scitotenv.2023.165939>. Accessed 27 Mar. 2024.

Beau, Brodbeck, and William Rowe. “Saturated Soils and Wind: A Recipe for Toppling Trees.” Alabama Cooperative Extension System, 25 Feb. 2019, www.aces.edu/blog/topics/forestry/saturated-soils-and-wind-a-recipe-for-toppling-trees/.

Black, John D. and Brinser, Ayers. *Planning One Town: Petersham — A Hill Town in Massachusetts*. Harvard University Press, 1952.

Bryant, Lara. “Organic Matter Can Improve Your Soil’s Water Holding Capacity.” NRDC, May 27, 2015. <https://www.nrdc.org/bio/lara-bryant/organic-matter-can-improve-your-soils-water-holding-capacity>.

“Bounty Teachers Guide | the Sixth Anglo Abenaki War.” *Www.bountyfilm.org*, www.bountyfilm.org/lesson-three/the-sixth-anglo-abenaki-war#Scalping-In-The-Dawnland. Accessed 20 Mar. 2024.

Cates, Anna. “The Connection between Soil Organic Matter and Soil Water.” Minnesota Crop News, March 24, 2020. <https://blog-crop-news.extension.umn.edu/2020/03/the-connection-between-soil-organic.html>.

“Census Data API: /Data/2020/Dec/Dp.” *Api.census.gov*, api.census.gov/data/2020/dec/dp.html. Accessed 20 Mar. 2024.

“Census Profile: Petersham Town, Worcester County, MA.” *Census Reporter*, censusreporter.org/profiles/06000US2502753120-petersham-town-worcester-county-ma/. Accessed 20 Mar. 2024.

“Census Profile: Petersham, MA.” *Census Reporter*, censusreporter.org/profiles/16000US2553085-petersham-ma/. Accessed 20 Mar. 2024.

Commonwealth of Massachusetts Land Court Department of the Trial Court. Sunpin Energy Services, LLC, et al v. Zoning Board of Appeals of Petersham, et al, 21 MISC 000626 (JSDR).

Commonwealth of Massachusetts Office of the Attorney General. Attorney General's Amicus Brief in Comm. v. Maxim, 429 Mass. 287 (1999).

Conn, Carole. “The Settlers’ Radiator: Soapstone.”

<https://www.ctcountryantiques.com/post/2017/04/22/the-settlers-radiator-soapstone>

The Conference with the Eastern Indians, at the Ratification of the Peace, Held at Falmouth in Casco-Bay, in July and August, 1726. 1 Oct. 2009,

quod.lib.umich.edu/e/evans/N05687.0001.001/1:5.1?rgn=div2. Accessed 4 Apr. 2024.

Coolidge, Mabel Cook. *The History of Petersham, Massachusetts*. Higginson Book Company, 1948.

“Country Store Fact Sheet.” East Quabbin Land Trust. <https://eqlt.org/wp-content/uploads/2013/06/Country-Store-Fact-Sheet.pdf>.

Chute, Newton E., “The Talc, Soapstone, and Asbestos Deposits of Massachusetts.”

Commonwealth of Massachusetts Department of Public Works, U.S. Department of the Interior Geological Survey, 1969, <https://pubs.usgs.gov/of/1969/0039/report.pdf>.

“Dam Safety Inspection Requirements | Mass.gov.” www.mass.gov, www.mass.gov/info-details/dam-safety-inspection-requirements. Accessed 21 Mar. 2024.

“Dam Safety Performance Report: Maine.” Association of State Dam Safety Officials.

“Davenport Pond Dam.” National Inventory of Dams.

<https://nid.sec.usace.army.mil/#/dams/system/MA01764/inspections>.

“DCR Watershed Plans.” www.mass.gov, <https://www.mass.gov/info-details/dcr-watershed-plans>.

“Deer Management | Mass.gov.” www.mass.gov, www.mass.gov/info-details/deer-management.

Ehrenpreis, Jamie E., and Eli D. Ehrenpreis. “An Historical Perspective of Healthcare Disparity and Infectious Disease in the Native American Population.” *The American Journal of the Medical Sciences*, vol. 363, no. 4, 24 Jan. 2022,

www.ncbi.nlm.nih.gov/pmc/articles/PMC8785365/,

<https://doi.org/10.1016/j.amjms.2022.01.005>.

“Evans Early American Imprint Collection.” *Quod.lib.umich.edu*,

quod.lib.umich.edu/cgi/t/text/text-idx?c=evans.

“Fiscal Impacts of Land Use in Massachusetts: Up-to date Cost of Community Services

Analyses for 4 Massachusetts Communities.” Murray, Helena and Catanzaro, Paul. UMass Amherst, 2019.

“HHS Poverty Guidelines 1983-2024”, U.S. Department of Health and Human Services, Office of the Assistant Secretary for Planning and Evaluation.

“Historic & Archeological Resources of Central Massachusetts, A Framework for Preservation Decisions,” Massachusetts Historical Commission, 1985, PDF version 2007.
<https://www.sec.state.ma.us/divisions/mhc/preservation/survey/regional-reports/CentralMA.pdf>

“History | Harvard Forest.” [Harvardforest.fas.harvard.edu](http://harvardforest.fas.harvard.edu),
harvardforest.fas.harvard.edu/history#:~:text=At%20its%20founding%20in%201907.
Accessed 21 Mar. 2024.

History – Hassanamisco Indian Museum. www.nipmucmuseum.org/history/.

Holley, Cheryll Toney. “A Brief Look at Nipmuc History.” *Strangers in Our Land*, 27 Sept. 2009, nativenewengland.wordpress.com/2009/09/26/a-brief-look-at-nipmuc-history-by-cheryll-toney-holley/. Accessed 20 Mar. 2024.

Hydrargyrum, Nikater; adapted to English by. “English: Tribal Territories of Southern New England Tribes about 1600. Grey Dotted Lines Are Approximate Modern Political Boundaries.” *Wikimedia Commons*, 25 Nov. 2008,
commons.wikimedia.org/wiki/File:Tribal_Territories_Southern_New_England.png.
Accessed 20 Mar. 2024.

iNaturalist. “Observations.” *INaturalist*,
www.inaturalist.org/observations?nelat=42.5502309&nelng=-72.1008839&place_id=any&swlat=42.3427519&swlng=-72.315994&view=species.
Accessed 1 Apr. 2024.

Kim, JiHyun, et al. “Increased Water Yield due to the Hemlock Woolly Adelgid Infestation in New England.” *Geophysical Research Letters*, vol. 44, no. 5, 15 Mar. 2017, pp. 2327–2335, <https://doi.org/10.1002/2016gl072327>.

Knowing Nipmuc – Hassanamisco Nipmuc Band. www.nipmucband.org/knowing-nipmuc/.
Accessed 20 Mar. 2024.

“Knowing Nipmuc -Nipmuc History Pt 1_1.Mp4.” *Google Docs*,
drive.google.com/file/d/1q_ym2YosTCdJ10lp4t14mme8g_wZhi3F/view. Accessed 20 Mar. 2024.

Kopansky, Dianna. “Peatlands Store Twice as Much Carbon as All the World’s Forests.” *UN Environment*, 1 Feb. 2019, www.unep.org/news-and-stories/story/peatlands-store-twice-much-carbon-all-worlds-forests.

“Labor Market Information.” *Mass.gov*,
lmi.dua.eol.mass.gov/lmi/LaborForceAndUnemployment/TownComparison.

Lord, William G., and Allen County Public Library Genealogy Center. *History of Athol, Massachusetts.* *Internet Archive*, Athol, Mass, 1953,
archive.org/details/historyofatholma00lord/page/n5/mode/2up. Accessed 20 Mar. 2024.

Managing Forests for Climate Change in Massachusetts ..., www.mass.gov/doc/managing-forests-for-climate-change-in-massachusetts-forester-guide/download. Accessed 20 Mar. 2024.

Massachusetts Department of Conservation and Recreation. “Watershed Protection Act Viewer.” *Experience.arcgis.com*, 18 Mar. 2024, experience.arcgis.com/experience/6b2d62c1611f48f38c890dc717ff4459/.

Massachusetts Department of Environmental Protection. Source Water Assessment and Protection (SWAP) Report Quabbin Reservoir, Ware River and Wachusett Reservoir. Massachusetts Water Resources Authority (MWRA), June 2002.

Massachusetts Division of Fisheries and Wildlife Natural Heritage & Endangered Species Program. *Eastern Whip-Poor-Will Antrostomus Vociferus*. 2019.

Massachusetts Division of Fisheries and Wildlife Natural Heritage Endangered Species Program. “Rare Species Viewer | Mass.gov.” *Www.mass.gov*, www.mass.gov/info-details/rare-species-viewer.

Massachusetts Division of Fisheries and Wildlife Natural Heritage & Endangered Species Program. “Sweet Coltsfoot Petasites Frigidus Var. Palmatus.” 2015.

“Massachusetts Rivers Protection Act Protecting the Commonwealth’s Rivers, Streams, and Adjacent Lands.” www.mass.gov, www.mass.gov/doc/about-the-massachusetts-rivers-protection-act/download.

Massachusetts Water Resources Authority. History: Quabbin and Ware. www.mwra.com/04water/html/hist5.htm. Accessed 18 Mar. 2024.

“MassGIS Data: 2016 Land Cover/Land Use | Mass.gov.” *Www.mass.gov*, www.mass.gov/info-details/massgis-data-2016-land-coverland-use.

“MassGIS Data: 2020 U.S. Census TIGER Roads | Mass.gov.” *Www.mass.gov*, www.mass.gov/info-details/massgis-data-2020-us-census-tiger-roads?_gl=1. Accessed 22 Mar. 2024.

“MassGIS Data: 2020 U.S. Census Towns | Mass.gov.” *Www.mass.gov*, www.mass.gov/info-details/massgis-data-2020-us-census-towns.

“MassGIS Data: Counties | Mass.gov.” *Www.mass.gov*, www.mass.gov/info-details/massgis-data-counties?_gl=1. Accessed 22 Mar. 2024.

“MassGIS Data: Dams | Mass.gov.” *Www.mass.gov*, www.mass.gov/info-details/massgis-data-dams?_gl=1. Accessed 20 Mar. 2024.

- “MassGIS Data: MassDEP Hydrography (1:25,000) | Mass.gov.” *Www.mass.gov*, www.mass.gov/info-details/massgis-data-massdep-hydrography-125000?_gl=1. Accessed 22 Mar. 2024.
- “MassGIS Data: MassGIS-MassDOT Roads | Mass.gov.” *Www.mass.gov*, www.mass.gov/info-details/massgis-data-massgis-massdot-roads?_gl=1. Accessed 22 Mar. 2024.
- “MassGIS Data: MWRA Water/Sewer Service Areas | Mass.gov.” *Www.mass.gov*, www.mass.gov/info-details/massgis-data-mwra-watersewer-service-areas?_gl=1. Accessed 22 Mar. 2024.
- “MassGIS Data: NRCS HUC Basins (8,10,12) | Mass.gov.” *Www.mass.gov*, www.mass.gov/info-details/massgis-data-nrcs-huc-basins-81012?_gl=1. Accessed 22 Mar. 2024.
- “MassGIS Data: Property Tax Parcels | Mass.gov.” *Www.mass.gov*, www.mass.gov/info-details/massgis-data-property-tax-parcels.
- “MassGIS Data: Protected and Recreational OpenSpace | Mass.gov.” *Www.mass.gov*, www.mass.gov/info-details/massgis-data-protected-and-recreational-openspace?_gl=1. Accessed 26 Mar. 2024.
- “National Inventory of Dams.” *Nid.sec.usace.army.mil*, nid.sec.usace.army.mil/#/dams/system/MA01764/inspections. Accessed 20 Mar. 2024.
- “Nichewaug Inn Market and Feasibility Analysis.” Concord Square Planning and Development, Inc., 2016.
- “No. 126: Massachusetts Native Americans | Mass.gov.” *Www.mass.gov*, www.mass.gov/executive-orders/no-126-massachusetts-native-americans#:~:text=In%20support%20of%20the%20concept. Accessed 4 Apr. 2024.
- “Open Space and Recreation Planner’s Workbook.” Massachusetts Division of Conservation Services, 2008.
- Orwig, David, et al. “Harvard Forest Data Archive | Harvard Forest.” *Harvard.edu*, 2019, harvardforest1.fas.harvard.edu/exist/apps/datasets/showData.html?id=hf083. Accessed 3 Apr. 2024.
- “Petersham Farmland Inventory.” Mount Grace Land Preservation Trust, 2016.
- “Petersham Final Master Plan; Final Open Space & Recreation Plan”, Petersham Ad-Hoc Planning Committee, Daylor Consulting Group, 2004.
- Petersham Historical Society. Petersham, Massachusetts — A Concise Timeline. Petersham Historical Society, 2007-2015.

- “Petersham Reconnaissance Report.” Massachusetts Department of Conservation and Recreation, 2008.
- “Petersham Topographic Map, Elevation, Terrain.” *Topographic Maps*, en-us.topographic-map.com/map-k4s57/Petersham/. Accessed 20 Mar. 2024.
- Regenerative Design Group, et al. *The Massachusetts Healthy Soils Action Plan*. 2022.
- Report of the Petersham Advisory Finance Committee for Fiscal Year 2025.
- “Report: New England Forests Can Do More to Combat Climate Change.” *Report: New England Forests Can Do More to Combat Climate Change | Harvard Forest*, harvardforest.fas.harvard.edu/news/report-informs-policy-making-process-detailing-how-forests-contribute-climate-change-mitigation. Accessed 20 Mar. 2024.
- “Sale of Land or CR.” *East Quabbin Land Trust*. <https://eqlt.org/land-protection/sale/>.
- Searcy, Karen B., et al. “Influence of Bedrock and Aspect on Soils and Plant Distribution in the Holyoke Range, Massachusetts.” *Journal of the Torrey Botanical Society*, vol. 130, no. 3, July 2003, p. 158, <https://doi.org/10.2307/3557551>. Accessed 21 May 2021.
- “Seven Acre Preserve.” *East Quabbin Land Trust*. <https://eqlt.org/seven-acre-preserve/>.
- Shepard, Donald & Kuhns, Andrew & Dreslik, Michael & Phillips, Christopher. (2008). Roads as barriers to animal movement in fragmented landscapes. *Animal Conservation*. 11. 288 - 296. 10.1111/j.1469-1795.2008.00183.x.
- “This Map Shows Where Americans Will Migrate Once Sea Levels Rise.” *Global Center on Adaptation*, 12 Feb. 2020, gca.org/this-map-shows-where-americans-will-migrate-once-sea-levels-rise/.
- “Town of Petersham Affordable Housing Plan.” Petersham Affordable Housing Task Force, 2005.
- Town of Petersham Annual Report, FY 2022 (July 1, 2021 – Jun 30, 2022).
- “Town of Petersham Open Space & Recreation Plan, 2014.” Robert A. Clark, 2014.
- "Town of Petersham Self-Evaluation and Transition Plan September 2018." James M. Mazik, AICP, 2018.
- U.S. Census Bureau. "PROFILE OF GENERAL POPULATION AND HOUSING CHARACTERISTICS." Decennial Census, DEC Demographic Profile, Table DP1, 2020.
- UNESCO. “World Heritage.” *Unesco.org*, 2023, www.unesco.org/en/world-heritage.

United Nations. “Biodiversity - Our Strongest Natural Defense against Climate Change.” *United Nations*, United Nations, 2022, www.un.org/en/climatechange/science/climate-issues/biodiversity.

US Census Bureau. “The Number of People Primarily Working from Home Tripled between 2019 and 2021.” *Census.gov*, 15 Sept. 2022, www.census.gov/newsroom/press-releases/2022/people-working-from-home.html.

“Wampanoag Fishing Rights - Appeals Court.” *Umass.edu*, 2024, people.umass.edu/derrico/wampanoag/appeals.html. Accessed 4 Apr. 2024.

“Zoning By-Laws of the Town of Petersham, Massachusetts.” Town of Petersham, 2018.

Maps Used to create Map 3-4: Lands Attributed to the Nipmuc:

“About | Native American Trail’s Project.” *Www.umass.edu*, www.umass.edu/nativetrails/. Accessed 20 Mar. 2024.

“Historical Atlas of Massachusetts.” *Www.geo.umass.edu*, www.geo.umass.edu/faculty/wilkie/Wilkie/maps.html.

“Knowing Nipmuc -Nipmuc History Pt 1_1.Mp4.” *Google Docs*, drive.google.com/file/d/1q_ym2YosTCdJ10lp4t14mme8g_wZhi3F/view. Accessed 20 Mar. 2024.

Native Land Digital. “NativeLand.ca.” *Native Land Digital*, 2024, native-land.ca/.

“Nipmuc Nation.” *Www.umass.edu*, www.umass.edu/nativetrails/nations/Nipmuc/nipmuc.html. Accessed 20 Mar. 2024.

Tougas, Michael. “King Philip’s War.” *Bill of Rights Institute*, billofrightsinstitute.org/essays/king-philips-war.

USDA Natural Resources Conservation Service. *Prime and Other Important Farmlands of Worcester Massachusetts*. 13 Sept. 2019.

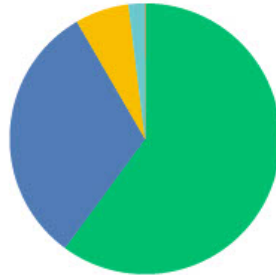
Appendix A: 2023 OSRP Community Survey Results

Petersham Open Space & Recreation Plan Survey 2023

Total Survey Responses: 209 or 17.5% of 1194 Residents (2020 Census)

Q1 How important is it to you for the Town to acquire or conserve open space?

Answered: 203 Skipped: 6

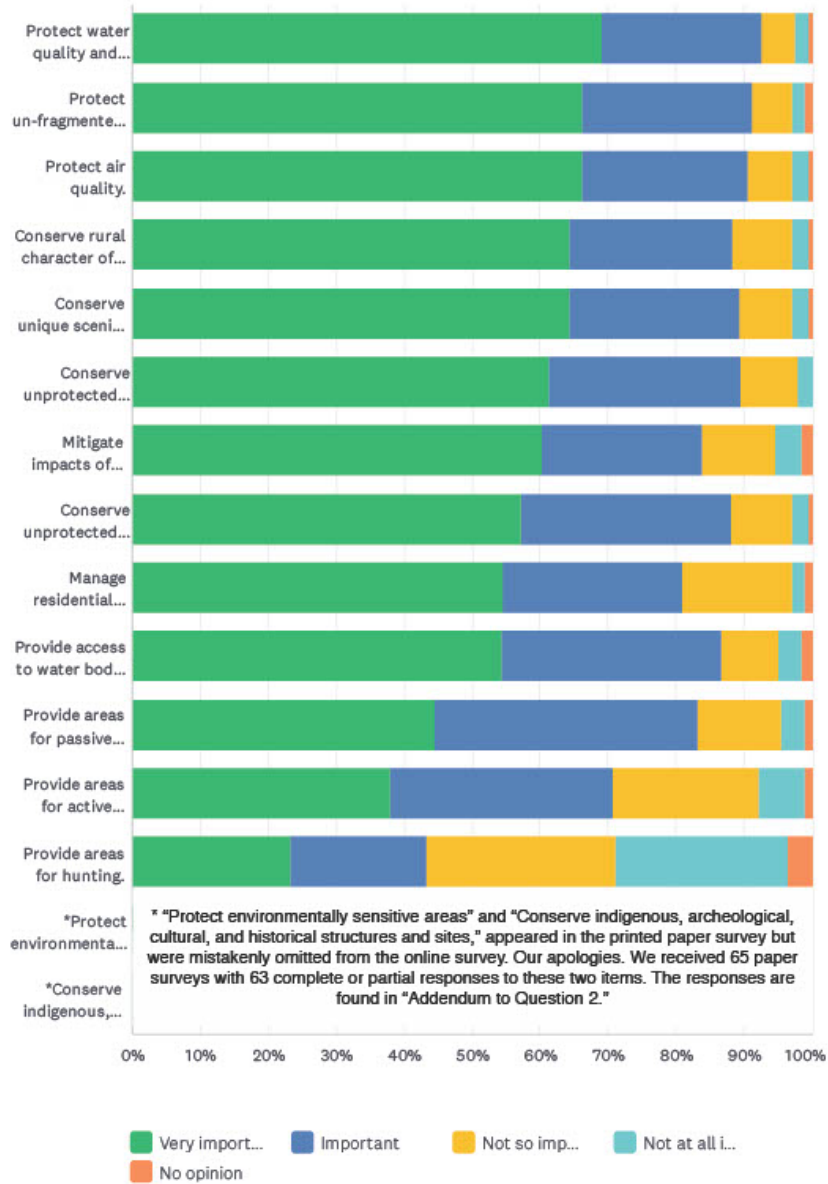


■ Very import...
 ■ Important
 ■ Not so imp...
 ■ Not at all i...
 ■ No opinion

ANSWER CHOICES	RESPONSES	
Very important	60.10%	122
Important	31.53%	64
Not so important	6.40%	13
Not at all important	1.97%	4
No opinion	0.00%	0
TOTAL		203

Q2 Specifically, how important is it to you for the Town to acquire or conserve open space for the following reasons:

Answered: 206 Skipped: 3

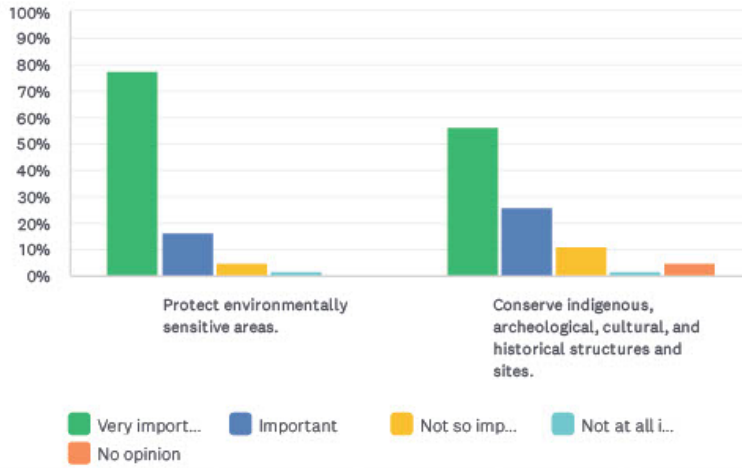


	VERY IMPORTANT	IMPORTANT	NOT SO IMPORTANT	NOT AT ALL IMPORTANT	NO OPINION	TOTAL	WEIGHTED AVERAGE
Protect water quality and wetlands.	69.12% 141	23.53% 48	4.90% 10	1.96% 4	0.49% 1	204	1.41
Protect un-fragmented habitats and wildlife corridors.	66.34% 136	24.88% 51	5.85% 12	1.95% 4	0.98% 2	205	1.46
Protect air quality.	66.18% 135	24.51% 50	6.37% 13	2.45% 5	0.49% 1	204	1.47
Conserve rural character of the town.	64.39% 132	23.90% 49	8.78% 18	2.44% 5	0.49% 1	205	1.51
Conserve unique scenic areas and vistas.	64.39% 132	24.88% 51	7.80% 16	2.44% 5	0.49% 1	205	1.50
Conserve unprotected forest land.	61.39% 124	28.22% 57	8.42% 17	1.98% 4	0.00% 0	202	1.51
Mitigate impacts of climate change.	60.29% 123	23.53% 48	10.78% 22	3.92% 8	1.47% 3	204	1.63
Conserve unprotected farm land.	57.35% 117	30.88% 63	8.82% 18	2.45% 5	0.49% 1	204	1.58
Manage residential growth.	54.63% 112	26.34% 54	16.10% 33	1.95% 4	0.98% 2	205	1.68
Provide access to water bodies and conservation land.	54.41% 111	32.35% 66	8.33% 17	3.43% 7	1.47% 3	204	1.65
Provide areas for passive recreation.	44.61% 91	38.73% 79	12.25% 25	3.43% 7	0.98% 2	204	1.77
Provide areas for active recreation.	38.05% 78	32.68% 67	21.46% 44	6.83% 14	0.98% 2	205	2.00
Provide areas for hunting.	23.41% 48	20.00% 41	27.80% 57	25.37% 52	3.41% 7	205	2.65
*Protect environmentally sensitive areas.							
*Conserve indigenous, archeological, cultural, and historical structures and sites.							
*Please see Addendum to Question 2.							

Addendum to Question 2

Specifically, how important is it to you for the Town to acquire or conserve open space for the following reasons:

Answered: 63 Skipped: 0



	VERY IMPORTANT	IMPORTANT	NOT SO IMPORTANT	NOT AT ALL IMPORTANT	NO OPINION	TOTAL
Protect environmentally sensitive areas.	77.42% 48	16.13% 10	4.84% 3	1.61% 1	0.00% 0	62
Conserve indigenous, archeological, cultural, and historical structures and sites.	56.45% 35	25.81% 16	11.29% 7	1.61% 1	4.84% 3	62

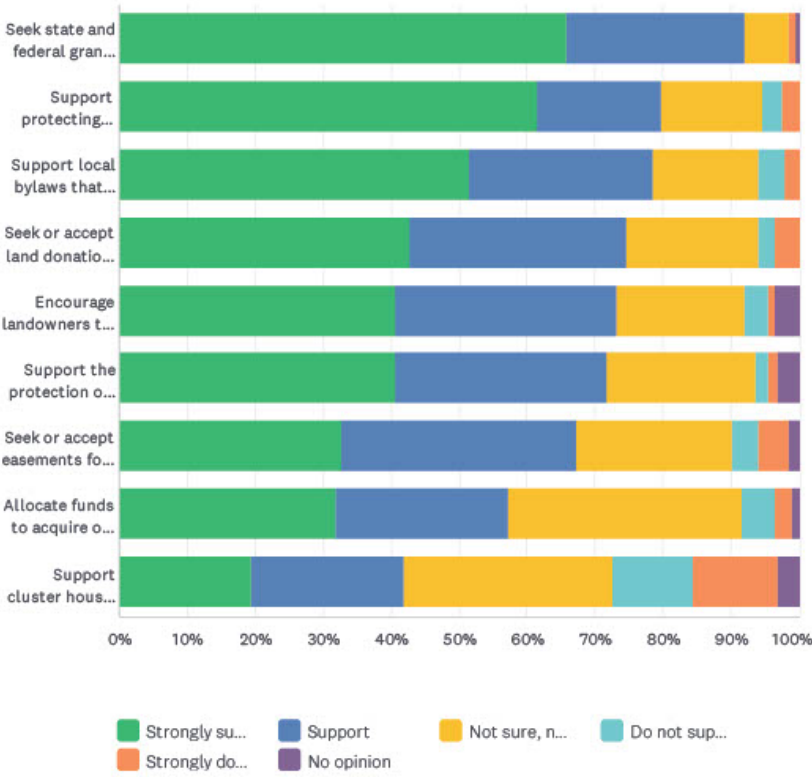
Q2. Other reasons or comments, please specify:

Open space is the most important resource that we have. After air, water, and land, open space along with clean air and clean water are the only factors that really ensure that we have the resources that are needed to keep this planet livable for humans! I include the earth under the land in open space. Once commercial interests have access to the deep resources of this Earth, we cannot ensure that the integrity of the land, water, air and us will remain as intact as possible.
Preserve habitat for wildlife and pollinators.
No to the Town acquiring open space, yes to the Town conserving open space.
I think of the earth as our mother, and I want to treat her as such. Thanks.
For the health and wellbeing of future generations.
Petersham already has much protected open space but the town could add more specifically for the reasons above, and particularly in or near the center of town.
While the environmental concerns are most important, we are lucky to already have many protected areas thanks to Harvard Forest, Mass Audubon, the Trustees, and local land trusts. A newer concern is the changing character of the town "thanks" to the booming housing market. If we continue to allow parcels of land to be sold off, divided, and developed into cookie cutter homes which sell at prices locals cannot afford, then Petersham will no longer be Petersham.
Conservation must include partnership with the Nipmuc tribal government, rather than the usual conservation easements, and I would prefer that the conservation plan also include direct, unimpeded (meaning no CR) land transfer to them. Re: preserving the character of the town, I mostly worry about subdivision, gentrification (there is very little affordable land/housing anymore), and ground-mounted solar being installed on forest and prime ag soils.
Keeping land open for a variety of uses, easily accessible, ensures people can utilize that land and thus feel ownership - feel they are stewards of the land. Restriction has the opposite effect. Keeping open space available is a gift to future generations!
Very important: Conserve and rematriate indigenous (Nipmuc) land (this option seems to be missing from the online survey).
The reason that I listed "Manage Residential Growth" and "Maintaining Rural Character" as "Not at All Important" is because I feel that some zoning and conservation decisions made in the past in Petersham with the stated goal of protecting against "development" and/or "maintaining the rural character" have actually been antithetical to conservation goals and have led to the further fragmentation of critical habitats, open space, and farmland.
We don't need more untaxable land.
Mitigate impacts of climate change - ?. Conserve unprotected farmland - where? Protect environmentally sensitive areas - ?
I think moreso than conserve land for the reasons above, we recognize the inevitable need for affordable housing, the importance of increasing diversity in our town, and righting the wrongs of Petersham's past and rematriating (giving back) land to Indigenous peoples (Nipmucs).
My husband and I moved to Petersham for the open space that is protected. We all have walked and cross-country skied on many of the town's trails. We had also biked a lot in town. I have never lived in a city and have no desire, too. As a child, I biked and hiked through fields and pastures.
I'm for conservation, but conservation for others at my personal expense is frustrating.
It is critically important so make land conservation an immediate priority. There are too many people "developing" land here and in surrounding communities. Logging (strip clearing forests) is going on everywhere, including the delicate Nichewaug (Glen Valley Road areas). Look at the devastation along 32A just beyond the Marvel property toward Hardwick - also Phillipston - indiscriminate development and "forest clearing" is ruining this region permanently. Act now.
Need to protect wildlife and native plants.
Petersham - and Massachusetts as a whole - is overdeveloped. Protect undeveloped land - and un-developing land - should be the highest priority.
Circled "indigenous, archeological..." for emphasis. Historical structures are not so important to me.
What is "passive recreation"?
open areas to residents, but also everybody including Nipmuc Nation and other members of Historically Underserved Communities. (Remember: Petersham's nickname: "Volunteer Town"!)
Preserve space BETWEEN neighbors to maintain peace.
Harvard Forest, Trustees, Audubon, Mount Grace, and DCR offer numerous justifications for the land within our town. Allocating tax funds to address the very same purposes that private organizations already excel at appears duplicative. What our town truly lacks is a focus on promoting active recreation.
Petersham has an enormous amount of conserved land for a town of its size. Most was conserved by DCR, Harvard Forest, Trustees and Audubon. Several of these are able to purchase more. Petersham has not made the most of these benefits. If tax payer dollars are available for Open Space and Recreation, I hope they will be focused upon improved access to land conserved and trails for the public to connect with and experience the conservation tracts.
Do not send multiple choice questionnaires.
Preserving the rural beauty and character of Petersham would be my highest aim. Everything else on your list follows from that.
My answers reflect the importance of balancing ideas and goals of multiple stakeholders.
manage residential growth: these cookie cutter houses popping up are degrading the character of our town. Some modification of zoning (or other town) laws needs to set specs on misuse of cheap building materials.
The previous questions are difficult to answer regarding Petersham. There are already many conservation properties in Petersham: MDC, Harvard Forest, EQLT, Brooks Conservation, etc. I think the conservation is important. With so much already in town I don't see the need for the town to acquire more land.
I live in Petersham because the things I consider important are listed above.
I support low impact recreation such as hiking and snowshoeing (not motorized recreation or hunting).

I don't think the town needs to acquire MORE land, but it should care for land already owned. With all the land in town already in some form of public ownership or protection, I don't in principle think that residential growth needs to be tightly managed - except for the fact that the school cannot handle any more enrollment without a significant increase in tax rates (which are quite low and I would support raising!).
PUBLIC OWNERSHIP IS RISKY BUSINESS
I would say conserving unprotected farm and forest land is highest priority
Need to have landowners and hunters, active recreation users to meet and discuss concerns
Quabbin has plenty of room already for hunting. And there are many conserved acres of farm land and forest land already protected here.
.
more open space for hunting and fishing for the kids
NO HUNTING!

Q3 In order to conserve open space in Petersham, what actions by the Town would you support?

Answered: 205 Skipped: 4



	STRONGLY SUPPORT	SUPPORT	NOT SURE, NEED MORE INFO	DO NOT SUPPORT	STRONGLY DO NOT SUPPORT	NO OPINION	TOTAL	WEIGHTED AVERAGE
Seek state and federal grants for land protection and management.	65.84% 133	26.24% 53	6.44% 13	0.00% 0	0.99% 2	0.50% 1	202	1.60
Support protecting forests from clear-cutting for industrial solar projects.	61.58% 125	18.23% 37	14.78% 30	2.96% 6	2.46% 5	0.00% 0	203	2.01
Support local bylaws that further protect wetlands and forests from other development.	51.47% 105	26.96% 55	15.69% 32	3.92% 8	1.96% 4	0.00% 0	204	2.15
Seek or accept land donations and development rights from landowners.	42.79% 86	31.84% 64	19.40% 39	2.49% 5	3.48% 7	0.00% 0	201	2.37
Encourage landowners to use Chapter 61 property tax reduction program for forest, farm, and recreation land.	40.59% 82	32.67% 66	18.81% 38	3.47% 7	0.99% 2	3.47% 7	202	2.48
Support the protection of indigenous, archeological, cultural, and historical structures and sites.	40.59% 82	31.19% 63	21.78% 44	1.98% 4	1.49% 3	2.97% 6	202	2.51
Seek or accept easements for public access on privately owned land in order to access or connect public open spaces (e.g. to access a hiking trail or extend a bike path).	32.67% 66	34.65% 70	22.77% 46	3.96% 8	4.46% 9	1.49% 3	202	2.73
Allocate funds to acquire or conserve more open space.	31.84% 64	25.37% 51	34.33% 69	4.98% 10	2.49% 5	1.00% 2	201	3.01
Support cluster housing or multi-family housing to protect more open space.	19.50% 39	22.50% 45	30.50% 61	12.00% 24	12.50% 25	3.00% 6	200	3.73

Q3. Other actions you recommend or comments, please specify:

"industrial" needs to be defined. Support small-scale solar projects/Don't support clear-cutting at all/So many questions to ask - very site specific
Many people don't know about Chapter 61. Seek or accept land donations and development rights from landowners to the town or land conservation organizations. Seek state, federal, and foundation grants for land protection and management. Think more broadly - there are many land protection/conservation non-profits that can have the protection role, not just the Town!
Don't seek but only accept land donations or easements for public access on privately owned land.
How about supporting solar panel installations over our parking in area schools? - instead of in fields. I think that cluster housing helps create neighborly community.
Excellent options, especially the last two.
Some I noted as "support" above are supported in theory but more information is needed, such as how the town would handle stewardship of lands it conserved or lands it was donated. Not sure how we'd handle it, but we may have volunteer interest? Also, overall, I strongly support land conservation but there is a question of whether the town needs to directly conserve or just work with the many existing orgs (noted in my comment above) already set up to do this work. It seems the town's work more aligns with researching best practices, enacting strict bylaws re: solar and development, educating land owners re: options, partnering with land trusts, etc.
I'm just not sure we have the bandwidth as a town to hold and steward more land. I'd love to see it but the bandwidth issue to do it right is real! Also, re: housing - I'd like to see affordable housing in Petersham but I don't think clustered housing is the right answer here as there are few places to work, no public transportation, and few resources in the schools, etc.
Solar is great when it does not destroy open space. Clear cutting and logging can have hugely beneficial impact on the forest.
Housing must be at least partly affordable
I strongly support cluster development and other changes to existing zoning bylaws and approaches open space conservation that prioritize affordable housing, including multi-family dwellings. I'm not sure about the current numbers but I am sure that Petersham is well below the 10% state-mandated standard for affordable housing stock. Being proactive about encouraging ecologically sound development of new affordable housing stock and repurposing existing stock should be a priority for the Town. I also think that taking on more conservation land as a town requires significant dedicated funding, including funding/resources for monitoring of all CR properties held by the town.
Implement annual building cap for smart growth
Allow accessory residential units
Definitely support solar. Just want to make sure it's done with minimal environmental impact, and that it benefits consumers/residents.
No new taxes.
Senior housing to free up existing homes
Try to create income, not lose tax money.
Allocate fund to acquire or conserve more open space - only if giving away. Seek or accept land donations and development rights from landowners - * cultural use easements. Support cluster housing or multi-family housing to protect more open space - as long as it's affordable!!! Seek land donations for repatriation to Indigenous tribes, for whatever use they see fit: Incentivies black + People of Color farmers to live and farm in Petersham.
"Little or no development, please" written next to Seek or accept land donations and development rights form landowners. Save the uniqueness and beauty of Petersham - beautiful open fields and gorgeous vistas.
Moratorium on "logging". More control over permitting "development".
Support cluster housing... also indicated No opinion.
Town should join Community Preservation Act
Need to share more info on Chapter 61 to residents. Land donations need strict evaluation before accepting.
The 4th category is ambiguous. What's important is what happens to the donated lands and development rights.
"indigenous, archeological" circled for emphasis. Historical structures are not so important to me.
One great trail would be along the stream from uptown P'ham to the Swift River, Trustees of Reservations. Several owners could grant public access: TOR, Selden, Lockhardt, Corey, Mitus, Barnes, P'ham.
Don't want multi housing under any circumstances.
Avoid communism as it is lethal
Would be great to have support at the town level for any property owner considering the Section 61 process.
cluster/multi-fam housing: only support if the design is in keeping with the historic nature of the old architecture in this town
Consider cluster zoning for senior housing on the Nichewaug site
There is no shortage of forested land in this part of the state. I support large scale solar in currently forested areas, but not with a blank check. It does need to be planned and executed in a way that protects the local ecology as much as possible.
In terms of industrial solar I think we all need to do our share and while I don't think Petersham is a good fit because it's so hilly I do want to support solar.
.
The town desperately needs to develop a comprehensive zoning plan!!
In addition to protection of indigenous sites, I also strongly support returning land to indigenous people
More intense use of existing housing should be encourage as opposed to new construction.

Q4 Is there open space in Petersham that the Town should try to acquire through donation or purchase to conserve or use for recreation OR if already owned by the Town, to convert for recreation or other uses? Let us know up to three locations and the potential purpose.

Answered: 77 Skipped: 132

ANSWER CHOICES	RESPONSES	
Area and purpose:	100.00%	77
Area and purpose:	31.17%	24
Area and purpose:	19.48%	15

Q4. Let us know up to three locations and the potential purpose.

Area and Purpose 1:
Part of the Nichewaug Inn/Maria Assumpta Academy site.
Former Nichewaug site - open space.
See below.
don't know
Nichewaug- permanent fire pit
All or part of the Nichewaug Inn parcel should be used for recreation.
No ideas, other than the eternal question of what to do with the Nichewaug?
Former Nichewaug space near the Common - something for the community (playground, park with benches/etc)
N/A
Any unused town-own land considered for remediation
Nichewaug site, for recreation or extending the 'common'
"For Sale" Wetland on West Street - preserve wetland
Former Nichewaug Inn and Academy for apple orchard with walking paths and park benches, possible wedding site (ceremony only)
Nichewaug Inn site for both active and passive recreational uses.
None
15-year-old conservation restriction with 87 acres at 18 Hammond Lane, will be donated to EQLT in memory of Miss Alice J. Downs. Purpose: woodland trails.
Former Nichewaug lot, multi-purpose
Academy land should remain open space
Not sure
former Nichewaug Inn location - passive recreation and environmental education
Don't know specific plots, but I know there are unused land plots that could be remediated to the Nipmucs with zero impact to Petersham... other than the knowledge that we'd be righting the wrongs of history.
Save Perkins farm Maple Ln prettiest land in town. Gorgeous sunsets.
Parcel in back of fire pond on West St. - to protect watershed to Quabbin Reservoir and as wildlife refuge.
Nichewaug property - an acre or so of land should be given to Library for future building and a small play area for young children.
Every place you can. STOP PERMITS for at least a year and study what's been going on without any apparent oversight!
Old Nich property - walking path, benches, covered seating, plant indigenous trees - NO PLAYGROUND, PCS has a great one -
Not sure what is available for this.
Waterfront land for town recreation access
No ideas
?
Purchase U. of Wild before that land is misused.
Davenport pond deck - great base system is already there, but the deck wood is all rotten down. Great look out for the lake.
Not sure
Need more info
On the Common- Music/arts/ space with some rentable business space
Nichewaug inn site
next to the library, Town fairs, evening movies stuff to gather the community together
the 10 acres w/fields at the top of Hardwick Rd. J Baker bought, had proposed CR not finalized. Scenic & Ag land w/good location for possible farm stand
land on East Street for community farming
A plot on Doe Valley. It was clear cut a few years ago. It be a nice area to make into an access spot into Davenport Pond.
Rice's Roots land currently for sale on Chimney Hill
?
It seems that with 75% of the land area already protected there isn't much need to add more.
Town owned parcels for cemeteries
Maria Assumpta parcel, Playground & Pavilion
Nichewaug site for recreation
na
Nichewaug Property
Open space currently for sale on East Street (Perkins farm and Rices' Roots farm) is part of the iconic rural beauty of Petersham and might require more protection?
Site of Nichewaug Inn should be used for something and not just grass sitting there
can't think of any at the moment
Nichewaug site/public gathering center of some type
nichewaug area- parking w solar or electric car charging
Mrs Siccardis historical pink house on Main St
Former Nichewaug land
Nichewaug lot, put up a pavilion with public restrooms.

Nichewaug Inn Property
Land beside library - landscape and use for either passive or active recreation
Brown's Pond for resident recreation, including swimming
NO
Nichewaug Inn site & Pickleball court/small garden walk
Nichewaug Inn- cluster elderly housing and community center
In general creation of a trail network throughout the conserved areas
former Nichewaug property: community gardens, park, donate part to library for expansion
No clue
.
A number of plots of land along Nichewaug Road have been purchased recently. I urge the town to closely monitor the clear cutting of property and destruction of habitat along the ridge that overlooks the Swift River Valley and Reservation.
Need more info
Nichewaug property for both passive and active recreation.
Nichewaug: passive recreation/ pollinator friendly
any open space but it should remain open for ALL lawful recreation including hunting and fishing
former Nichewaug Inn location
Nichewaug site for active recreation
Field next to the Library/ picnic tables, fire pits or grills to cook on, a place for kids to run around.
Carter Pond Road (King property) watershed preservation
There are two lots for sale currently on Monson Turnpike on the Athol border that are wetlands and home to a significant amount of wildlife, including keystone species. This wetland area should be preserved.
Undeveloped parcel for sale on West Street; conserve as undeveloped wetland space.
Area and Purpose 2:
More active encouragement of folks to use public walkways and other protected land in Town, such as the Davenport Pond, Babbitt, and just south of the Center of Town.
don't know
Cultural use easements (share use with Nipmuc)
Nichewaug Inn - preserve open space
Improve access and install benches for skating at Harvard Pond
Not sure
Rice's Roots - keep open or farm.
Purchase land as needed if parts of Rice's Roots or Sweetwater Farm won't be used for farming.
On a pond- summer boating / winter Ice skating rink /winter sports / with some rentable lodge / pavilion business space
conserve land along all rivers and major stream corridors for water quality, wildlife habitat, and recreation.
Site of the former Nichewaug Inn
Cemeteries for green burial grounds
Browns pond for swimming
na
nichewaug - plant berry bushes or food type plants
The blueberry field at the end of Sunset Lane
Getting Harvard Forest to commit to preserving their acreage.
North Common Meadow--ask for space for indigenous gardening, wetu
No clue
.
The Coolidge Property has recently been logged. Is this a prelude to the development of the land?
The field next to the library would look a LOT nicer if something were done with the brick storage building. It's a real eyesore.
All "public footpaths" should have Article 97 protection. One has already been paved with support from the Conservation Commission which is a shame
Potential farmland for sale on Maple Lane; conserve as farmland.
Area and Purpose 3:
Encourage use of Mass Audubon and Trustees land; Town website could have descriptions and maps of places to use outdoors.
don't know
Perkins Farm - preserve agricultural character
Allow for daily and weekend access to Center School Gym for pickleball and convert outdoor basketball court to multiuse including Pickleball.
Not sure
Make sure that Harvard Forest land (all) is protected.
Nichewaug Inn site should remain open space and recreational space.
Land along Tom Swamp Rd and east of Rte 32 abutting Old Poor Farm
leave it to the wildlife
Having Harvard pay PILOT monies

No clue
.
The town needs to be aware of efforts to transfer ownership of town land to political groups.
Farmland on Maple Lane and land at Nichewaug. Both contain prime agricultural soils
Undeveloped parcels for sale on New Athol Road; conserve for forest and wetlands.

Q5 In particular, do you have ideas for recreation or other uses at the Town-owned Nichewaug Inn site in Town Center? Let us know up to three ideas in order of priority.

Answered: 150 Skipped: 59

ANSWER CHOICES	RESPONSES	
Idea 1:	100.00%	150
Idea 2:	64.00%	96
Idea 3:	44.67%	67

Q5. Let us know up to three ideas for the Town-owned Nichewaug Inn site in order of priority.

Idea 1:
Embrace the cold!!! Tennis/pickleball court that could be flooded in winter for a town skating rink! Winter-related town activities could be held there - much safer for kids and adults to skate upon. Lots of possibilities for this use.
3-5 units of senior housing (my preference is for connected housing).
Open space
Communal vegetable gardens.
A permanent fire-pit for town bonfires!
It's lovely to have the open space.
Permanent fire pit
Protected open space with a recreational component (pavilion, dog park, garden). Keep it simple so does not cost town money to maintain.
Outdoor gym equipment for all ages
Multi-generational playground
Give some of the land to the library
Town park - picnic area, maybe BBQ "pits" like a state forest.
Park with bocce courts or other easy to maintain recreation activities for all ages
Ice skating rink in winter.
Affordable housing for older adults, farmers, families
picnic benches
Chapter 40B affordable multi-unit housing. The town could make large strides towards its affordable housing stock targets without increasing further ecological impact.
Apple orchard
Apple orchard park with walking paths and benches, possible wedding site (ceremony only), as mentioned above
Moderate income housing
Indoor recreation center with ping pong, dance studio, and board games
Plant trees, shrubs, public garden with paths, benches, sculptures plus bocce court, tennis/pickle ball court.
Native wildflower meadow with mowed paths
None
Senior housing
Some senior housing units for Petersham's seniors.
Community Center
Band shell or small amphitheater
Community Garden
Outdoor concert venue with concessions
Basketball court
A passive recreation and park area that educates about the environment (e.g. native species and pollinators) and about what we can do in stewarding our own properties in ways that contribute to healing the environment.
Senior Center
Go kart race track
Cultural use easements - invites to share use and mgmt of town conservation land with the Nipmuc.
Let it stay open. It compliments the North Common Meadow. Being the oldest historic district in MA, let's keep it the way it looks now.
Leave like it is.
Community center; space for: meeting, events and indoor and outdoor recreation.
Possible area for town firepit - community activity/bonfire gathering
Ice skating rink
A walkway around the perimeter with plantings, trees, shrubs, etc.
Nothing concrete: study climate change effects on biodiversity on edges with help from local colleges/universities/scholarly research institutions.
Open space meadow/garden/greenspace. "No development".
Park w/seating
Open space... nice open space
Pickle ball court
Keep as open field
Walk with benches around perimeter
Covered seating areas - no plastic
Maintain as open space with possible garden/park space and planting
As an abutter, I am concerned about noise and other pollution and also vandalism on my property. So, I support letting the land become a wild forest
Allow Petersham Memorial Library to acquire land behind the building for outdoor library-oriented activities and to provide for an updated septic system.
Pavilion with stage for music and events.

Playground
Pickleball court
Dog park as long as dog injuries are not responsibility of Town.
Senior Housing with Community Center close by or as co-located or as 2 wings of one building.
lawn games: badminton, horseshoes, etc. store in common locker
Orchards
Open space - recreation or gardening
Walking paths with resting spots w/benches - safe for elderly.
Everybody loves shuffleboard! Community activities/sports...
Give Library the needed land to update well & septic.
Wood bank
Open space/park
Appropriately sized and architecturally congruent inter-generational housing
Keep natural-no low income or multi-family housing
Dog Park, due to ticks, difficult to walk pet in woods. Have used when lived in South. Pets really enjoy
Music/arts / center
Community green space
Baci courts
Ice skating rink
Open space
skating rink using the Inn's old high-capacity well as water source
leave it alone
A park similar to Boston common
community recreation: pool, tennis courts, ball fields
Town Park with some passive recreation; great sunset location worth saving
small houses for senior living, maybe duplexes or triplexes
Structure for concerts/cultural events
Tennis court
Community Center - mixed use - w. architecture matching other town center properties
lawn
Picnic area
open air theater
Open space with a covered open-air seating area offering educational stations on why conservation is so important
Yes! A town 'recreation' area that supports a burn pit/fire area to have town activities/get togethers!!!!
outdoor "living room" in collaboration with library.
leave it as open space
Town playground, barbecue area and seating
Leave as attractive meadow and open space
Park with dog area
Tennis
Pavilion
Town park
multi-purpose pavilion
Tree farm
Open field use for times when School field is not available
It's beautiful as an open field
Leave as an open field
Family friendly park with playground and space for outdoor activities
open space
Community resource center
see above
Senior housing designed in keeping with the old architecture of the town
Playground
Public Park
Native / pollinator garden
Town park
Looks great as an open space right now. Low maintenance.
allotment gardens
Community garden and orchard for use by all
Rest rooms
Tennis or pickle ball courts
small area to provide septic field for library
Answered in previous question
A cluster zoned senior housing community

Seating throughout year, some suited to inclement weather
Flow field for library water/sewage management.
Something that brings in tax revenue! It doesn't have to become a dunkin donuts, but come on, there's got to be something profitable that can be done there!
COMMUNITY GARDEN
Senior affordable housing
See above
Senior housing.
Walking paths through gardens of native plants
Gardens
Build new-construction Senior Housing
already answered this
soccer field
Multiple units of housing
.
Expand the Library and provide parking spaces.
Fruit orchards
Return land to Nipmuc
Keep it open
Outer circle trail/walk year-round access for seniors/others
Track for walking/ running
Natural space - gardens with native plants
Tennis courts
Too early to weigh in on possible uses of this property.
Community farm and garden with covered open space event facility.
residence can apply for a divided section for flower/botanical gardens. Would be a nice walk through them.
tiny house village for mixed-generation housing
Active recreation
amphitheater
Passive open space with walking trails and community gardens, orchards
A public seasonal skating rink in the flat field directly behind the library. https://ezicerinks.com/?rink=kiddie&style=1%2C1%2C1&features=#shoprinks
Provide area for updated septic system for library
Recreational fields- soccer, etc
A multi-use timber-frame pavilion for outdoor classes, workshops, community events.
Idea 2:
Recreation, including ice rink, exercise trails (see equipment made by folks that made new school playground equipment).
Passive recreation
Picturesque area, that would take good photos, like weddings, prom, etc.
Housing for elderly? and family oriented.
Tennis court, ice skating rink
Event space
Nothing that would change or take away from the historical look and feel of the town center.
Idea 1a - Perhaps amphitheater. Bolton did this and it is great.
Athletic fields for youth sports
community garden
Multi-use space including sports fields, native plant landscaping, outdoor amphitheater, place for community ice-rink in the winter, etc.
Community farm
The apple trees could be donated in honor or memory of individuals and families (i.e. the family tree) and maintained by the town. Trees would receive a small sign or marker with family name. Becomes literally a family tree.
recreation center
Outdoor pickleball and basketball and baseball fields
Pavilion with large outdoor fireplace/grill
Senior center
Along with idea 1 - A senior center building for meals and arts & craft, including all adults for arts & crafts!
Friday Market
Dog Park
Playground
Playground
Pickle Ball courts
Pickleball courts
Housing for farmers of color who are farming in the area

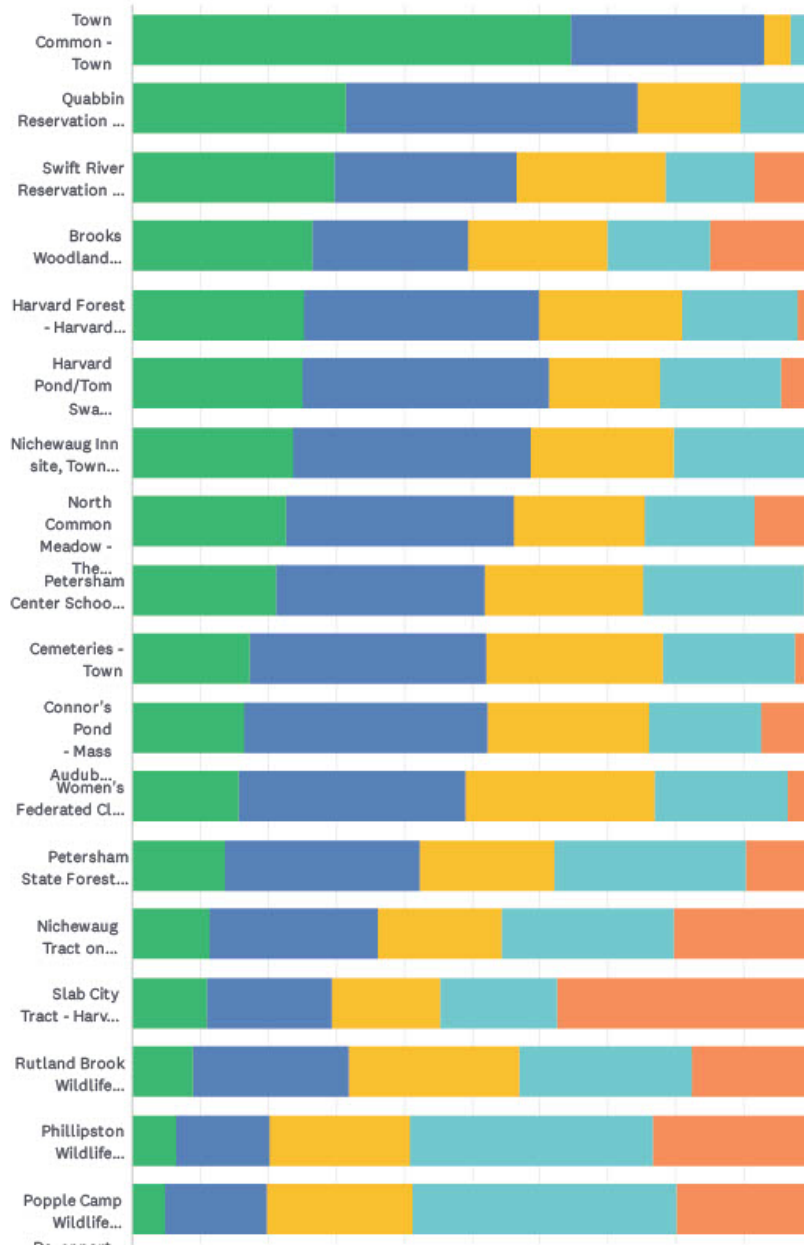
House lots?
Designated area for dog park
boce court
Areas for croquet, badminton, volleyball, wiffleball, horseshoes, cornhole, etc.
Picnic area w/some area for active sport, e.g. tennis
Make it part of Common - grass and trees
Temporary ice rink for winter use
Walking path
or an orchard
Rec center - senior, teen
Picnic pavilions with grills to rent for events
Picnic area
Indoor gym w/swimming pool (like at YMCA)
pickleball court, tennis, "pitch" for rugby, cricket, baseball, etc.
Gardens
tennis court
Replicate mini gazebo version front of Nichewaug with info of areas to hike, vistas, local businesses, for visitors.
And tennis?! Skating rink? Community center?
Plant tree/flower gardens. make a walking path w/benches.
Community garden
Gardens/park
Preserve the historic look of our beautiful common - a requirement if anything is built there.
Learning center /summer camp
Ice skating
Open field
Community garden
boce court
promote community garden
outdoor amphitheater in summer/kiddie snow park in winter
Space for various recreational activities (skating, workouts, tennis/badminton)
ice skating
field
Butterfly garden
town bocce court
Fenced in dog park
Volleyball
Playground
pickleball courts
Arboretum
Elder Housing
Senior housing
public berry patches
Multi-family housing, again in keeping with old architecture
Sport fields
Public recreation area
Common
Community garden
pavilion
Gardening
Dog park
Community garden
Designated parking spaces for library and town events.
LEAVE AS IS
A community center
Playground that young kids can use when school is in session
Concerts
Plenty of recreation out of the center
Create a town botanical garden with planted and open space.
Swimming pool and/or ice-skating rink
Open air pavilion for summer movies, events - winter skating
Community garden
Toddler playground
Outdoor fitness circuit / workout stations
expanded community garden (with separate till and no-till sections)

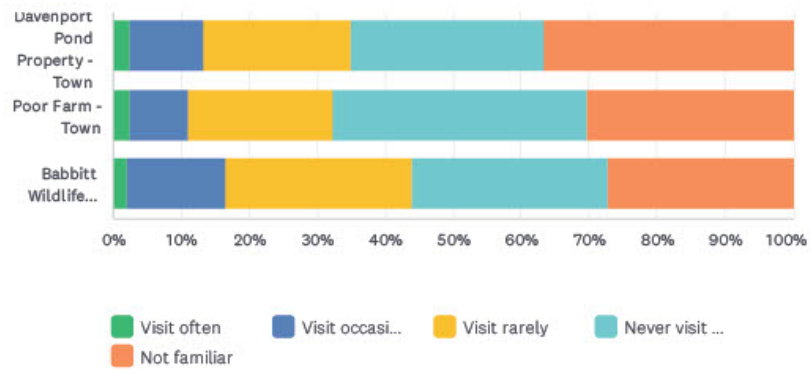
structure to house recreational equipment for all town use
One acre for library
Open space to walk dogs, etc
Build a roofed, timber framed structure for outdoor reading and meeting space
Mixed use - community gardens, active rec
Seasonal outdoor skating rink (removable after winter).
Idea 3:
Senior community center (social, multi-purpose). All three ideas all with shared facilities with the Memorial Library. Land should not be given to the library or even sold, when they have no immediate plans for it. Septic and water facilities can easily be shared!
Pollinator gardens
A gazebo, maybe?
Affordable housing incorporated with elderly housing and restaurant.
Park with playground area for small children
Spring blossoms would be stunningly beautiful and an annual marker of Spring. A beautiful setting for all to enjoy with minimal cost.
Ice skating/skateboarding
Studio and personnel for free piano and other instrumental music lessons
Community gardens, orchard
If this is too big an idea, perhaps a small building for seniors, like the small senior center in Wendell, MA?
Community Garden Space
Tennis, pickleball, & basketball courts
Grassy meadow
Tennis court
Lawn games - corn hole
Affordable housing - there is a housing crisis - how can we sit idly by with all this land, and keep it all for ourselves? for fun?
Designated walking area
kite flying, volley ball court
A dog park.
Sell land for a single-family home
Competitions - bocce, cornhole, horseshoes, etc.; pavilion, multiuse; pollinator areas
Plant indigenous trees and a "native and historic garden"
or other community garden uses
Nature classroom programs
Dog area
Reforest w/native trees
trail good for wheelchairs with benches. *keys @ Country Store, Town Office Bldg, Library?
Let grow wild for birds and bees, with a few trails
volleyball, bocce ball, croquet, etc.
Art, music, learning center...
After 1 above, plant the rest as a wildflower meadow.
Gravel walkway with plantings and bench for those that can't hump through woods.
Plant trees and gardens
Senior condos w/ restaurant
Town garden
Playground
pickleball court
parking w/ EV stations + park w/ maze + park w/dog agility stations
Geothermal walkways for safe winter walking/running
exercise trail
Why is that garage still there - get rid of that!!!!
walking paths
Basketball, tennis, pickle ball court = any sport field
Basketball
skating rink
Solar farm
recreation fields
Buildings for businesses such as restaurant, bookstore, art space, performance space, theater/music space; built in keeping with architecture of old town
Town garden
Walking paths
horse shoe courts
General Recreation
Medium sized ice rink (cold weather use)
Aesthetic attraction such as labyrinth or sculpture garden.

Fairs
Labyrinths peace circle walk
Leave it as open space.
Community orchard (example: Bloomington Community Orchard)
Continue gardens, add pollinator plots, bird houses, picnic tables
Pollinator gardens
Wildflower garden (low maintenance)
native plant garden/park
community garden
An open pavilion with architectural elements that echo the Nichewaug building. It should have a Russian style masonry stove where people could gather perhaps to cook but mainly to sit on the warm stones and have a place where meetings could be held in the open air with some protection from the elements. This could be designed in conjunction with the library to provide some sheltered outdoor space for performances and meetings when they are best not held indoors.
More expanded/purposeful use of the community garden plot.
Pollinator meadow with walking trails
Community gardens, greenhouse, and accessible paths for every mobility.

Q6 Do you visit any of the following open spaces in Town and are they familiar to you?

Answered: 208 Skipped: 1





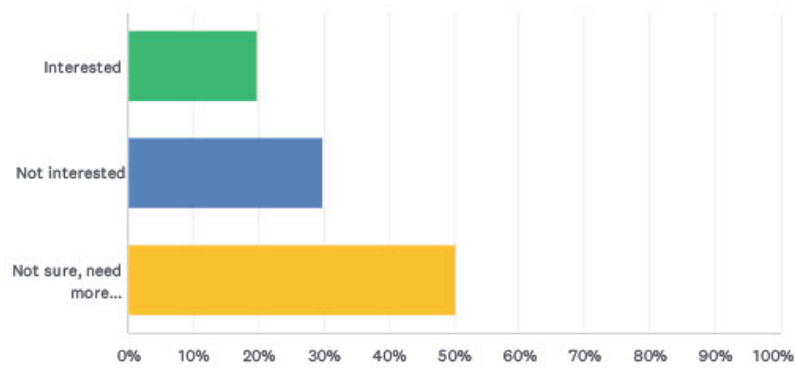
	VISIT OFTEN	VISIT OCCASIONALLY	VISIT RARELY	NEVER VISIT BUT FAMILIAR	NOT FAMILIAR	TOTAL	WEIGHTED AVERAGE
Town Common - Town	64.68% 130	28.36% 57	3.98% 8	2.49% 5	0.50% 1	201	1.46
Quabbin Reservation - DCR	31.53% 64	42.86% 87	15.27% 31	10.34% 21	0.00% 0	203	2.04
Swift River Reservation - The Trustees	29.85% 60	26.87% 54	21.89% 44	12.94% 26	8.46% 17	201	2.43
Brooks Woodland Preserve - The Trustees	26.50% 53	23.00% 46	20.50% 41	15.00% 30	15.00% 30	200	2.69
Harvard Forest - Harvard Forest	25.37% 52	34.63% 71	20.98% 43	17.07% 35	1.95% 4	205	2.36
Harvard Pond/Tom Swamp - Harvard Forest	25.25% 51	36.14% 73	16.34% 33	17.82% 36	4.46% 9	202	2.40
Nichewaug Inn site, Town Center - Town	23.65% 48	34.98% 71	21.18% 43	19.70% 40	0.49% 1	203	2.38
North Common Meadow - The Trustees	22.66% 46	33.50% 68	19.21% 39	16.26% 33	8.37% 17	203	2.54
Petersham Center School fields, playground, gym during non-school hours - Town	21.36% 44	30.58% 63	23.30% 48	23.79% 49	0.97% 2	206	2.52
Cemeteries - Town	17.41% 35	34.83% 70	25.87% 52	19.40% 39	2.49% 5	201	2.55
Connor's Pond - Mass Audubon, Harvard Forest	16.67% 34	35.78% 73	23.53% 48	16.67% 34	7.35% 15	204	2.62
Women's Federated Club State Forest - DCR	15.69% 32	33.33% 68	27.94% 57	19.61% 40	3.43% 7	204	2.62
Petersham State Forest - DCR	13.78% 27	28.57% 56	19.90% 39	28.06% 55	9.69% 19	196	2.91
Nichewaug Tract on Nichewaug Road - The Trustees	11.39% 23	24.75% 50	18.32% 37	25.25% 51	20.30% 41	202	3.18
Slab City Tract - Harvard Forest, Town	11.00% 22	18.50% 37	16.00% 32	17.00% 34	37.50% 75	200	3.52
Rutland Brook Wildlife Sanctuary - Mass Audubon	9.00% 18	23.00% 46	25.00% 50	25.50% 51	17.50% 35	200	3.19
Phillipston Wildlife Management Area - Fish & Wildlife	6.57% 13	13.64% 27	20.71% 41	35.86% 71	23.23% 46	198	3.56
Popple Camp Wildlife Management Area - Fish & Wildlife	4.98% 10	14.93% 30	21.39% 43	38.81% 78	19.90% 40	201	3.54
Davenport Pond Property - Town	2.54% 5	10.66% 21	21.83% 43	28.43% 56	36.55% 72	197	3.86
Poor Farm - Town	2.49% 5	8.46% 17	21.39% 43	37.31% 75	30.35% 61	201	3.85
Babbitt Wildlife Sanctuary - Town	2.02% 4	14.65% 29	27.27% 54	28.79% 57	27.27% 54	198	3.65

Q6. Other open spaces you visit in Town and frequency, please specify:

Popple Camp Wildlife Management Area - Fish and Wildlife - If this was given by Elliot Wayne; Rutland Brook Wildlife Sanctuary - Mass Audubon - used to live here in summers! I look for old cellar holes and wells and I search for old cemeteries, visit the cemeteries for history and for connection to older, dead folks of Town.
Trail across from Deb Bachrach. Trail by Roaring Brook. Trail by Fred Day.
We used to walk the Brooks Preserve much more often, but not much now. Is it because I am older? Access is not easy? I want to discover the Babbitt Wildlife Sanctuary! I want also to discover Davenport Pond
We visit the Feldman's property (Cutthroat Brook Farm off Brigg's Rd.) regularly, and a part of that is located in Petersham. Based on the many properties listed above that I've never heard of it would be helpful to have a resource of some kind (pamphlet, website) that provides info on our open spaces (name, location, parking, trail info, etc.).
I like sledding in winter on the former country club land that is now Harvard Forest. Also, not sure if this is technically an "open space" but I love walking/cross-country skiing on the Woolsey property's trail off of North St
Harvard off Birch Drive/DCR off Monson Tpk. Many other areas which are privately owned.
Cutthroat Brook Tree Farm (Gnome Trails) Athol/Petersham
Old Maid's Mile - daily. This is very popular walking route among many residents. A lot of people walk their dogs here, along the Common, and along North Main Street.
Browns Pond (East St)
The Woolseys' lovely woods trails off North St. - visit often. "Not familiar" may mean that we can't match a place to the name given.
Sledding on Harvard Forest land - the old golf course. Quaker Lane road - walk my dog.
Davenport Pond property
I'm on the Cemetery Commission
I don't know names of places but I'll pick a gate and walk. 35, 40?, 41?
Simes tract - rarely; Sunset lane Blueberry Field - frequent; Raccoon Hill Wildlife Management Area - rarely
I mostly don't visit open spaces because I feel unsafe walking alone in these areas. Are there meet-ups or groups that go for regular walks?
-- Beaver pond near intersection of Nichewaug and South St. - nobody knows about our great pond: "Hallberg's Pond" several spots for parking could easily be maintained at Nichewaug/South St. intersection. This is a great canoe spot! INVASIVES ARE BAD HERE. HOW ABOUT A PUBLIC CANOE RACK?
Petersham
Behind town highway barn (photograph herons in nest)
Visit often - East St. cemetery. Have online and little booklet with maps of trails and businesses in area they might also like to visit. Restaurants, Inns, groceries, gas, etc.
The reason I checked so many of these as unfamiliar is not because I haven't heard of them (I have heard of all of them), but because I either don't know for sure where they are or don't know how/when they can be accessed. Online resources/maps are much needed to make those areas more likely to be found & used.
Davenport pond as it is near my home. I think the deck near the pond needs to be fixed. Then, people would really enjoy the view.
The basics are still stern and strong.
town common and walk dogs on up town side walks
Petersham
Cutthroat Brook Tree Farm. Weekly
How do I find out about all these great places I'm not aware of?
Private land under conservation restriction behind my house
My own property every day possible due to physical constraints
Quaker Drive - to walk/drive in area several times a year
Woolsey trust private property
Brown's Pond
Is there a way to better advertise these sites to residents and visitors?
I walk on the Quabbin gate walks almost weekly
Rubin property on Camel Hump Road
.
The land along the East Branch of the Swift River from the new bridge to Rte 32A
Trails at Quabbin Gates
I enjoy walking on Quaker Drive with access to Trustees and Harvard Forest spaces. I love the views from Maple Lane.

Q7 Would you be interested in volunteering to help maintain and steward one of the Town's open spaces?

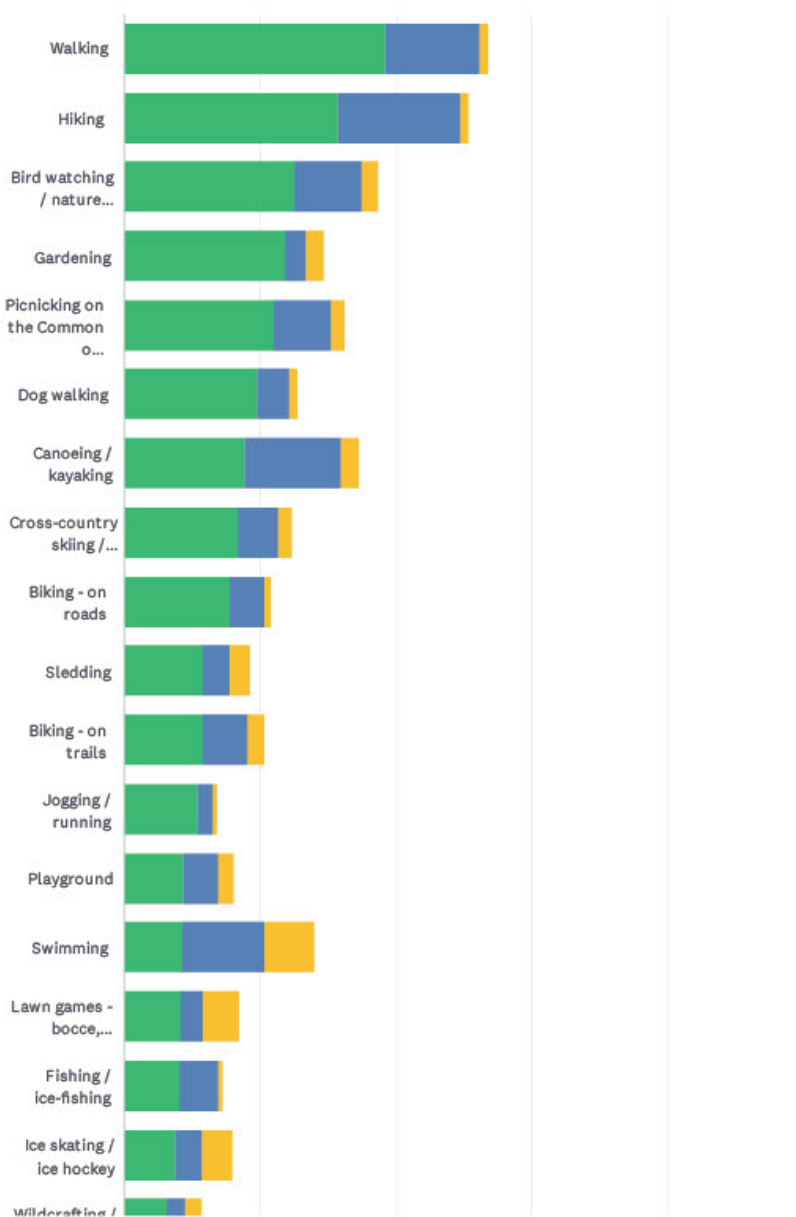
Answered: 197 Skipped: 12

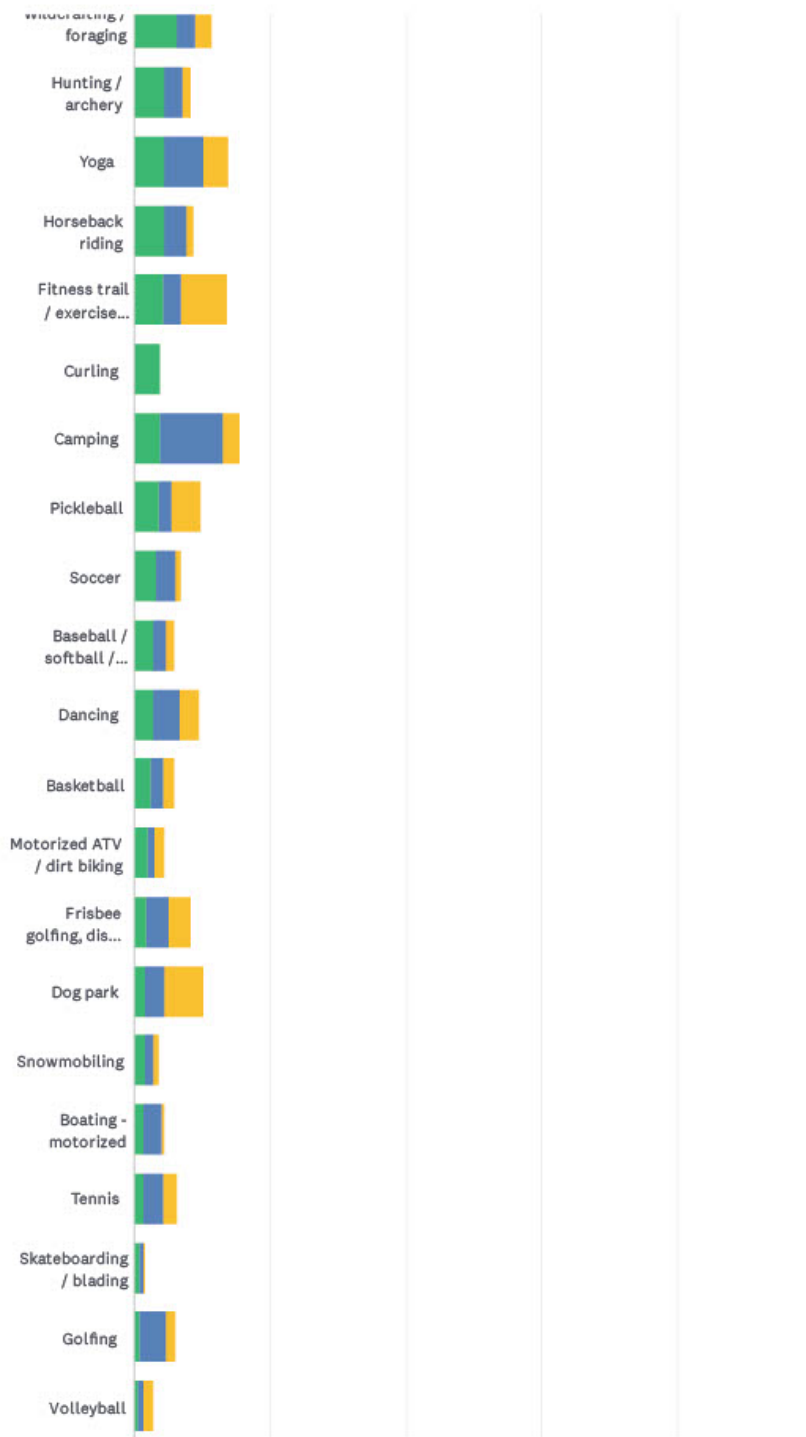


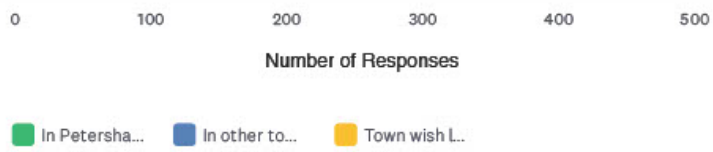
ANSWER CHOICES	RESPONSES	
Interested	19.80%	39
Not interested	29.95%	59
Not sure, need more information	50.25%	99
TOTAL		197

Q8 Which of the following activities do you enjoy now (whether it's in Petersham and/or other towns) and which ones do you wish you had the opportunity to do in Petersham? (Check as many options as you like.)

Answered: 205 Skipped: 4







	IN PETERSHAM	IN OTHER TOWNS	TOWN WISH LIST	TOTAL RESPONDENTS
Walking	98.97% 192	36.08% 70	3.09% 6	194
Hiking	94.58% 157	54.22% 90	4.22% 7	166
Bird watching / nature observation	95.45% 126	37.12% 49	9.09% 12	132
Gardening	92.97% 119	11.72% 15	10.16% 13	128
Picnicking on the Common or other open space	90.91% 110	34.71% 42	9.09% 11	121
Dog walking	96.08% 98	23.53% 24	5.88% 6	102
Canoeing / kayaking	78.07% 89	62.28% 71	11.40% 13	114
Cross-country skiing / snowshoeing	91.30% 84	32.61% 30	10.87% 10	92
Biking - on roads	95.12% 78	30.49% 25	6.10% 5	82
Sledding	80.56% 58	27.78% 20	20.83% 15	72
Biking - on trails	81.69% 58	46.48% 33	16.90% 12	71
Jogging / running	94.74% 54	19.30% 11	5.26% 3	57
Playground	84.62% 44	50.00% 26	21.15% 11	52
Swimming	46.74% 43	65.22% 60	40.22% 37	92
Lawn games - bocce, badminton, ping-pong, etc.	62.69% 42	23.88% 16	40.30% 27	67
Fishing / ice-fishing	89.13% 41	63.04% 29	6.52% 3	46
Ice skating / ice hockey	62.30% 38	31.15% 19	37.70% 23	61
Wildcrafting / foraging	80.00% 32	32.50% 13	30.00% 12	40
Hunting / archery	85.19% 23	48.15% 13	22.22% 6	27
Yoga	37.93% 22	50.00% 29	32.76% 19	58
Horseback riding	66.67% 22	51.52% 17	15.15% 5	33
Fitness trail / exercise circuit	34.43% 21	22.95% 14	55.74% 34	61
Curling	100.00% 19	0.00% 0	0.00% 0	19

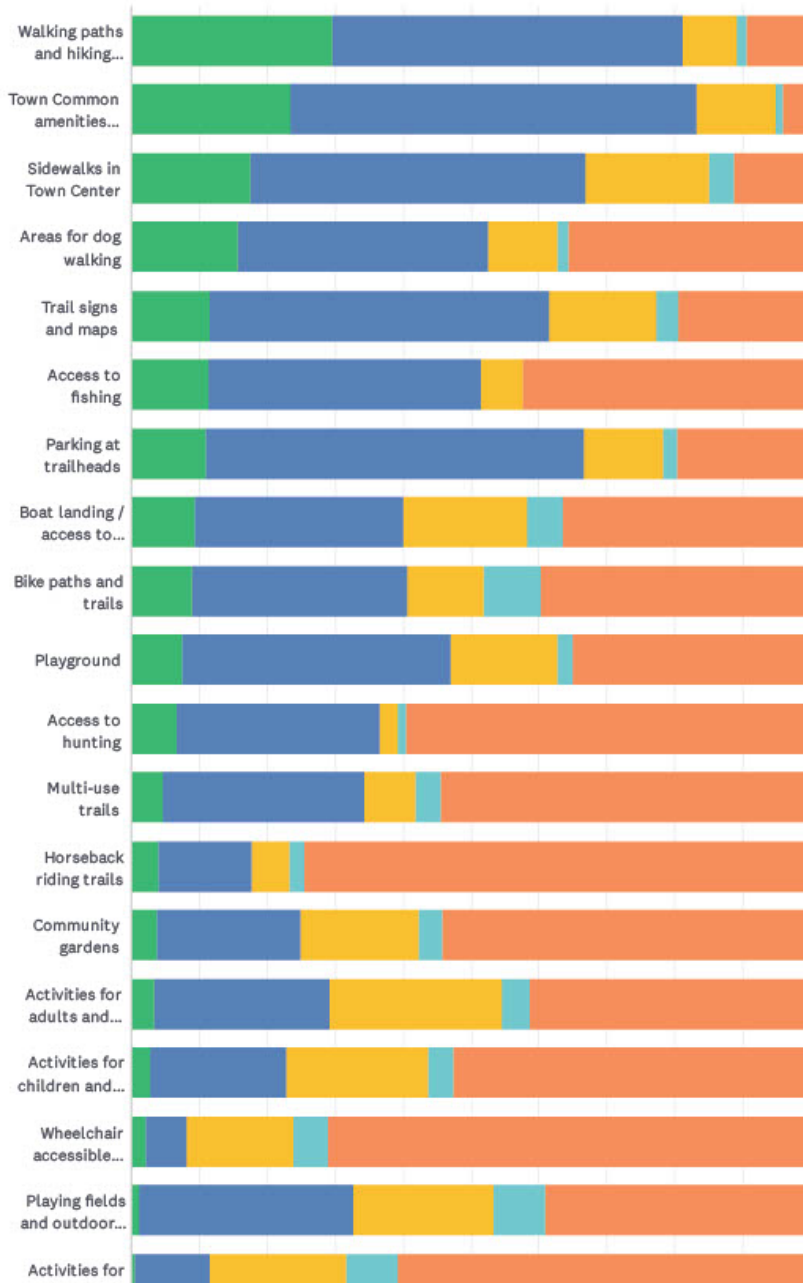
Camping	32.76% 19	79.31% 46	22.41% 13	58
Pickleball	46.15% 18	25.64% 10	53.85% 21	39
Soccer	64.00% 16	60.00% 15	16.00% 4	25
Baseball / softball / wiffle ball	58.33% 14	41.67% 10	25.00% 6	24
Dancing	40.00% 14	57.14% 20	40.00% 14	35
Basketball	52.17% 12	39.13% 9	39.13% 9	23
Motorized ATV / dirt biking	62.50% 10	31.25% 5	43.75% 7	16
Frisbee golfing, disc golfing, ultimate frisbee	30.00% 9	56.67% 17	53.33% 16	30
Dog park	17.02% 8	29.79% 14	61.70% 29	47
Snowmobiling	57.14% 8	42.86% 6	28.57% 4	14
Boating - motorized	41.18% 7	76.47% 13	17.65% 3	17
Tennis	29.17% 7	58.33% 14	45.83% 11	24
Skateboarding / blading	80.00% 4	60.00% 3	20.00% 1	5
Golfing	14.81% 4	74.07% 20	25.93% 7	27
Volleyball	23.08% 3	30.77% 4	53.85% 7	13

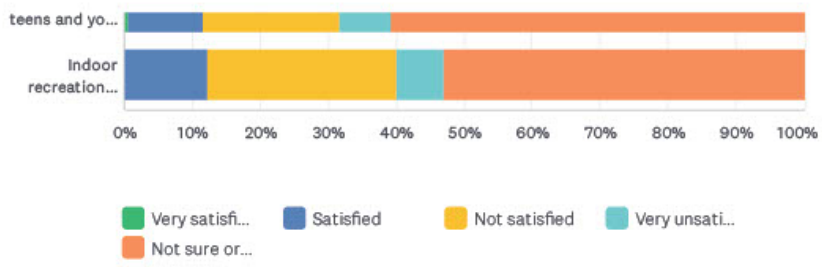
Q8. Other activities you do in Town or wish you could do in Town, please specify:

I wish we had a skating rink (outdoor) that was centrally located to bring people together for winter fun.
Ice rink for when pond ice isn't safe. Re: cross-country skiing - Please don't groom our trails! Re: canoeing/kayaking - We don't have the best places. Re: playground - Need a playground for toddlers when school is in session. Re: Lawn games - Need Town facilities! Re: Picnicking on the Common - Need more tables!
Flying models.
Swimming on Town Wish List - really would love.
The library is fantastic - could some adjacent available land be useful for their programs?
Dog park: not at the Nichewaug, thank you, but it would be nice to be allowed to use the fenced in area next to the baseball field at PCS. From what I can tell it doesn't get used for anything. And even the field itself could be an option when not in season. Just require folks to pick up after their dogs.
Fitness Center (wish list)
Loved Old Home Day with croquet tournament and other festive, wholesome activities.
Circled snowshoeing
Soccer - youth
Ice skating/ice hockey - used to, Harvard Pond; Sledding - old golf course; Biking on trails - Quabbin; Canoeing/kayaking in other towns - Comet Pond; Swimming in other towns - Comet Pond; Gardening - in my backyard.
No to Motorized ATV/dirt biking
Sailing in other towns; Town Wish List - town gardens. Dog park would need to be monitored closely for proper use and clean up - make a gated area with key fob access for LICENSED dog-owners.
Historic sites in Petersham and other towns
townspeople should automatically be allowed to treat invasive plants on town land. INVASIVES SHOULD BE #1 PRIORITY ON P'HAM LAND.
Petersham
Exercise with weight machines, play volleyball or badminton, bocce ball, croquet
dog Park
Petersham
none of the above, I am physically unable
outdoor concert space, fireplace and covered picnic areas
Join a walking club or Pilates or karate class
I think Petersham has lots of opportunity for individual outdoor recreation. Depending on what others, especially young people want it would be great to see some organized activities like outdoor pickle ball.
Moonlight walks led by interpreter
Petersham
I enjoy pickle ball in the Center School gym. One or two multi-use outdoor courts would be nice.

Q9 How satisfied are you with the following recreation resources in Town?

Answered: 203 Skipped: 6





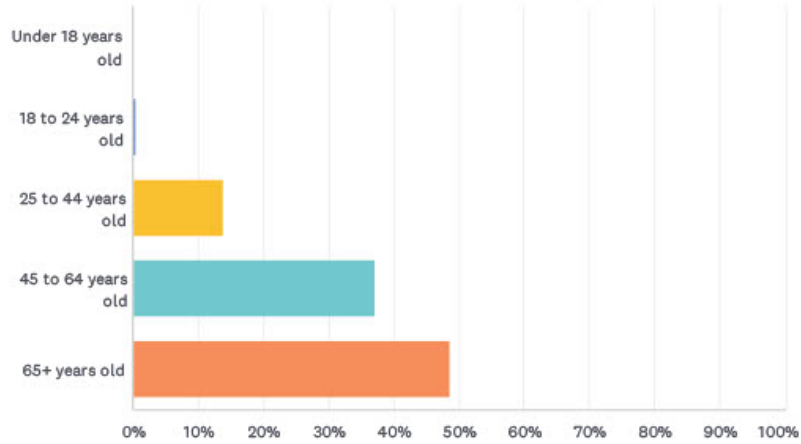
	VERY SATISFIED	SATISFIED	NOT SATISFIED	VERY UNSATISFIED	NOT SURE OR NO OPINION	TOTAL	WEIGHTED AVERAGE
Walking paths and hiking trails	29.69% 57	51.56% 99	7.81% 15	1.56% 3	9.38% 18	192	2.09
Town Common amenities (picnic tables, benches, etc.)	23.44% 45	59.90% 115	11.46% 22	1.04% 2	4.17% 8	192	2.03
Sidewalks in Town Center	17.65% 33	49.20% 92	18.18% 34	3.74% 7	11.23% 21	187	2.42
Areas for dog walking	15.85% 29	36.61% 67	10.38% 19	1.64% 3	35.52% 65	183	3.04
Trail signs and maps	11.58% 22	50.00% 95	15.79% 30	3.16% 6	19.47% 37	190	2.69
Access to fishing	11.41% 21	40.22% 74	5.98% 11	0.00% 0	42.39% 78	184	3.22
Parking at trailheads	11.11% 21	55.56% 105	11.64% 22	2.12% 4	19.58% 37	189	2.63
Boat landing / access to waterbodies	9.38% 18	30.73% 59	18.23% 35	5.21% 10	36.46% 70	192	3.29
Bike paths and trails	8.94% 16	31.84% 57	11.17% 20	8.38% 15	39.66% 71	179	3.38
Playground	7.56% 13	39.53% 68	15.70% 27	2.33% 4	34.88% 60	172	3.17
Access to hunting	6.74% 12	29.78% 53	2.81% 5	1.12% 2	59.55% 106	178	3.77
Multi-use trails	4.73% 8	29.59% 50	7.69% 13	3.55% 6	54.44% 92	169	3.73
Horseback riding trails	4.17% 7	13.69% 23	5.36% 9	2.38% 4	74.40% 125	168	4.29
Community gardens	3.95% 7	20.90% 37	17.51% 31	3.39% 6	54.24% 96	177	3.83
Activities for adults and seniors	3.45% 6	25.86% 45	25.29% 44	4.02% 7	41.38% 72	174	3.54
Activities for children and youth	2.92% 5	19.88% 34	21.05% 36	3.51% 6	52.63% 90	171	3.83
Wheelchair accessible paths and trails	2.33% 4	5.81% 10	15.70% 27	5.23% 9	70.93% 122	172	4.37
Playing fields and outdoor courts for sports	1.15% 2	31.61% 55	20.69% 36	7.47% 13	39.08% 68	174	3.52
Activities for teens and young adults	0.58% 1	10.98% 19	20.23% 35	7.51% 13	60.69% 105	173	4.17
Indoor recreation spaces and courts for sports	0.00% 0	12.21% 21	27.91% 48	6.98% 12	52.91% 91	172	4.01

Q9. Other resource recommendations, please specify:

Re: Boat landing - Access on Harvard Pond is more difficult after rebuilding landing! Re: Trail signs and maps - Need online access and description of allowed uses. Re: sidewalks in Town Center - Need to extend further North! Re: Playground - Could use access during school hours for toddlers. Re: Activities for adults/seniors - Need more outdoor group activities/games for all.
I'd just love more hiking/walking trails everywhere in Town, so you don't ever need to go on the main roads.
Re: Town Common amenities - more. Re: Community gardens - have my own.
Re: Access to fishing, may need to know more. Re: Bike paths and trails, need more info, need bike trails. Re: Multi-use trails: ?/not sure. Re: "Playground" through "Activities for adults and seniors" unsure because I need more information.
I think for a small town Petersham does a really good job providing activities for kids and adults, and we have amazing outdoor spaces. It would be nice (if possible?) to have better water access. As for the town sidewalks, they are really important for people with mobility issues as a place to walk, so if those could be shoveled/plowed in winter that would be great. It's too much to expect of individual home owners and 'businesses' as is the norm in cities (too much sidewalk and too much snow!), but perhaps the town could afford to hire someone with a snow blower or mini snowplow to take care of the walks around North Common and up to North Street, just as mowing is budgeted for the rest of the year.
Mostly selected very satisfied or satisfied. That is NOT saying things cannot be improved. Petersham is a gem. While these areas are better than many places, they could still be improved.
The picnic tables on the Common are very popular. A few additional tables could be beneficial. Also, a sidewalk or "walking lane" on Spring Street could be helpful for pedestrians. More defined crosswalks at the Town Common could be helpful, too
Sunday/Saturday morning 'meet-ups' for group runs or group bike rides (split up according to conditioning and goals)
I'm sorry, I think I was messed up on my understanding of Section 9. "How satisfied"?
Activities for children and youth - Not satisfied? Activities for teens and young adults - Not satisfied? Community Outdoor & Indoor Recreation Space in Center
Community gardens - do we have one?
Community Gardens - no need. All ages can walk in nature and find wonderful things and appreciate the silence and the beauty of nature in all its glory.
A sign indicating what birds have been seen and where. To be updated by enthusiasts
Need more youth after school clubs and activities.
Fewer parking areas please! And no paving! Don't over-maintain trails! Better conditions for walkers in town and less precedence for vehicles would be a good idea. No need to pave sidewalks. Just make space for walking.
Regarding "Sidewalks in Town Center" and "Bike paths and trails" - I think my main dissatisfaction comes from not having sidewalks and/or bike paths along 122. There is barely a shoulder and it feels very unsafe. It's also fairly difficult to go around a block or make a loop without going along 122, which is frustrating if I want a shorter exercise loop than the Maid's Mile or up 32.
Pickleball courts
Use Inn site for playground, why not?
Small parking spots all around town (e.g., ones like this modest spot at Glen Valley Rd. and Swift River) - you gotta check it out!!!
Question: Where is "Gebo's Cabin"?
Walking paths and hiking trails safe for elderly. Would like to see some kind of Senior (affordable) Living so our elderly can stay in town. Would like to see Nichewaug property with safe walking paths with little gardens, flower & vegetable, berry, apple and benches to rest on.
Petersham residents/other town residents that are on Quabbin Res should have more/free access to the water. Need more dog friendly trails.
Strict traffic control: Hazards for walkers; truck and car noise.
Senior Center/housing needed
accessible picnic areas, covered, room for several independent groups
I'm sorry to see the community garden be neglected and if we knew what activities (in this area) young people wanted I would like to provide some. I also know that TTOR has restricted mountain bikers and I think both hikers and bikers could use these trails if they just communicated with each other as they encounter each other.
a lot is offered, people need to pay attention and take the opportunities that are offered
Unleashed dogs are a safety issue on town land and trails.
Some central indoor location for ping pong, billiards, cards, etc.
I think the public should have more access to the Center School property
I chose "not sure, no opinion" for activities I don't do at present and feel I can't comment accurately.

Q10 What is your age?

Answered: 208 Skipped: 1



ANSWER CHOICES	RESPONSES	
Under 18 years old	0.00%	0
18 to 24 years old	0.48%	1
25 to 44 years old	13.94%	29
45 to 64 years old	37.02%	77
65+ years old	48.56%	101
TOTAL		208

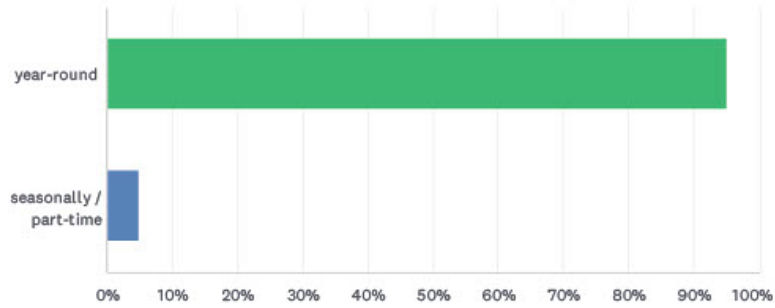
Q11 How many people in your household are in each age group including yourself?

Answered: 201 Skipped: 8

ANSWER CHOICES	RESPONSES	
Under 18 years old:	28.36%	57
18 to 24 years old:	15.92%	32
25 to 44 years old:	30.85%	62
45 to 64 years old:	46.27%	93
65+ years old:	59.20%	119

Q12 Do you live in Petersham?

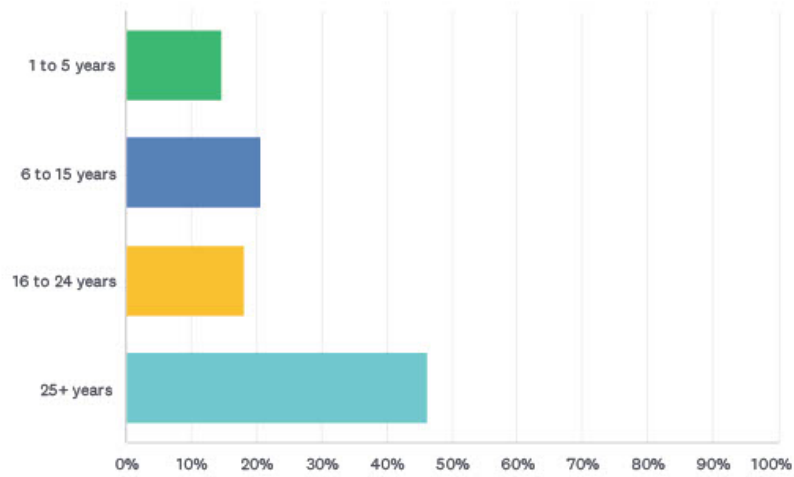
Answered: 201 Skipped: 8



ANSWER CHOICES	RESPONSES	
year-round	95.02%	191
seasonally / part-time	4.98%	10
TOTAL		201

Q13 How many years have you lived in Petersham year round or seasonally / part-time?

Answered: 203 Skipped: 6



ANSWER CHOICES	RESPONSES	
1 to 5 years	14.78%	30
6 to 15 years	20.69%	42
16 to 24 years	18.23%	37
25+ years	46.31%	94
TOTAL		203

Q14 If you would like to get more involved or like us to follow up with you about your survey comments, please provide your name, email address, and phone number. If not, move onto the final question.

Answered: 53 Skipped: 156

ANSWER CHOICES	RESPONSES	
Name:	100.00%	53
Email Address:	86.79%	46
Phone Number:	83.02%	44

Q15 Is there anything else you'd like to tell us about open space, land conservation, and/or recreation in Petersham?

Answered: 79 Skipped: 130

See comments next pages.

Q15. Is there anything else you'd like to tell us about open space/land conservation/recreation in Petersham?

Would like to be involved w/Open Space Planning group!
Allow additional access to Quabbin Watershed land managed by D.C.R. Cross country skiing, dog walking, mt biking, horse back riding.
Happy to talk personally! I've been in town for a long time for a "Newcomer." My and my family's use of available resources changes over time, with interests, family household configuration, availability and condition of resources, and availability with changing ecology, wildlife, and climate. Well done!
I appreciate that there is as much conservation land as there is! I just love walking/hiking conservation land.
Would appreciate handicap accessible trails.
Re: Question 7/volunteering - I don't think I am able to. It's so beautiful here; I am so lucky to live here! Community gardens are a great idea! Not sure what is happening with them. Many people in P'ham have gardens at their homes. But, the aspect of bringing people together around growing is important, I feel.
Thank you for your work!
My two major concerns about recreational and open space in town are 1) limited access or poor connectivity between trails, and 2) few bicycle-friendly (relatively smooth) trails. Otherwise I think Petersham is just wonderful for lovers of the outdoors. Thank you for doing this survey.
Thank you for doing this important work!
Thank you for taking this on. I wonder about the experience of immigrants and people of color (both growing communities) in Petersham as pertains to land. Should signs be in multiple languages? Do people of color feel safe? Also: Petersham's founding was a tragic period in our history (based on scalp bounties of Indigenous civilians during King Philip's War) and we need to think very seriously about what reparations looks like to the tribe (Nipmuc) that is STILL HERE and able to work with us on this.
Wished I lived here at a young age! Would know a lot more. Love the town.
Regarding Question 7, my son helps maintain and steward open space with The Trustees. Improving and maintaining open space access and usability is vital to both protecting the environment and developing a citizenry proud to be stewards of the land!
We love Petersham and hope to preserve the character/charm, while also exploring new recreation options for the townsfolk!
I'd like to see Petersham grow and welcome new and diverse individuals (and offer alternative housing for elders wanting to downsize) through affordable, smart, clustered housing development, while protecting wildlife corridors and forests. I'd like to see much more engagement with the Nipmuc in regards to shared use and repatriation. I support smart, cost-effective recreational offerings that create a strong quality of life for all residents, old and new, young and old, and from all racial, cultural, and ethnic backgrounds. Please refer to the Franklin County/NQ Age-Friendly Action Plan for best practices on recreational opportunities for older adults. Thank you to the Committee for this survey. I did notice some questions were missing from the online version.
We are fortunate to live in such a beautiful town. The historic and scenic preservation defines the town and provides its unique character and charm that is irreplaceable. Everyone who moves to Petersham feels blessed to live in such a peaceful place with a kind, caring community. Thank you for all of your efforts in pulling together a comprehensive survey with an excellent response. I look forward to your results and further community participation!
Build on the state's recent erection of signs warning motorists about safe passing distance from cyclists. Declare Petersham roads as 'multi-use' for walking, running, cycling, skipping, hopping and leaping. "You are entering a recreation-focused town and will encounter pedestrians and cyclists enjoying themselves!"
Petersham is a beautiful and unique town with some of the most beautiful trails in the state. Wish you could get rid of the ticks!
Thanks so much for doing this! I'd be interested in volunteering on: - Community garden - Trail maintenance - Planting wildflower meadow habitat to support native pollinators.
Keep as is.
I like to imagine other public trails? My place towards the areas of Quaker Drive at Moccasin Brook.
Thank you
I love Petersham the way it is and I'd like to preserve the small, New England, rural charm. I would prefer minimal development of any kind.
The Town does not need more untaxable open space!! It will drive people out of their homes if taxes are too high.
Daphne would be interested in knowing whether the Conservation Commission* is considering ways to make information available to Petersham residents about what we can do, here in this town, on our own property or as volunteers on town-owned land, to contribute to restoring/creating the factors that support a healthy environment. * or any other town organization or committee
How many years have you lived in Petersham? 40 years this December. What is your age? 66-68
Keep Larry Buell off the committee
Petersham could be an example of how to do it right - manage land and share land and resources in an inclusive way, in a historically restorative way, and in a way that conserves the small-town feeling, while not shying away from the problems of today - lack of affordable housing, poverty, gentrification, lack of diversity and unwelcome feelings towards diverse residents and different cultures, lifestyles in rural New England. Just as land trusts have changed their definitions of what it means to protect land (see Mt. Grace), in keeping with the evolving needs and dire circumstances of society, the Open Space & Recreation Committee can do the same. I love all the activities and sports mentioned in this survey - and I'd love all of it... but not at the expense of ensuring the people of this country not getting basic needs met. Imagine a Petersham where we can have it all - a welcoming, diverse (racially, socioeconomically, culturally) population that recreates together, plays together, honors Indigenous peoples and atones for our past colonialist sins together. And when other towns realize this is the way of the future, they will look to Petersham as a blueprint of how it can be possible.
Keep Petersham the way it is or else conserve more land and prevent development. Look into ways solar panels could be put on the elementary school. Put up a raised up small solar array behind the library to produce electricity for the town office buildings and public spaces. Raise the solar panels up, so they can be mowed or tilled beneath them.

Regarding Question 7: I would help maintain between my farm & volunteering on the Rabbit Run trail in Athol, that's it. I would like to have a designated bikeway and walkway on the breakdown lane on Rt 32 from Athol to Rt 122. This would be legal. Make a parking lot across from the Town Hall. This would be legal-Clint. Someday a car will be pulling off the breakdown lane and be hit by a car on Rt 32. I understand the car coming out of the breakdown lane would be at fault.
No subdivisions. Community center to anchor a host of activities.
I think there is plenty of open space in town, and that increasing the tax burden on an aging population to conserve yet more open space is ill advised.
GO FOR IT! Essential for community building and mental/physical health!
I feel we have good knowledgeable people looking into these issues and I am pleased by the care and attention and science behind the decisions made. I don't want much responsibility.* I just want to reap the rewards! [I may volunteer now and again for something.] *Change of heart - my work with the land is sacred. I would like to see where that brings me and if the town could someday find space for whatever I create in that realm.
This is a beautiful, rare place worth preserving! We need to make certain that it stays that way and not fall prey to developers with "big ideas" because I can assure you (as a former resident of two lovely, rare places that were utterly and irrevocably destroyed by development) that once it's gone - it will be gone forever.
I doubt anyone wants to admit they wanted the gate to close after they moved in. I am, however, concerned about the rate of new construction. The gate for new construction does need to stay open, just needs to be monitored given recent changes like the change in ownership of the Quabbin Retreat. There is a concern funding needed for maintaining open space will be diverted to areas beyond our control.... no, we can't control everything.
Picnic tables should not have benches attached. Senior citizens can't get in. Seats should be moveable.
Increase info on this topic on TOWN website, not Roy's - Have ability to sign up for areas of interest on website - More info on where plants, cut logs, etc. can be picked or picked up for crafting projects, winter greenery, weddings, etc.
Don't overdevelop. (Yes, I know I'm repeating myself!)
I enjoy Petersham and wish there were more places to gather with groups for a cook out or party.
Has any consideration or discussion been had with indigenous peoples who may want their land back? If we are thinking of acquiring more land as a Town, do indigenous peoples have something like the right of first refusal and are at least offered the option before the Town purchases?
We want Petersham and neighbors to know our 100+ acres are publicly accessible. We would like our nearby neighbors to create with us a right of passage from the Swift River TOR properties north to Petersham Center. In particular this right of passage would be reserved for members of the Nipmuk Nation. WE OWE THEM LOTS!! Please see attached map of these 100+ acres, including modest forest trails. Remember "Nichevaug" means "the place in between".
We went from limited construction to too much construction! I live next to the new church of "Our Lady of Perpetual Construction," a joke referring to the FOURTH year of noise from 95 Birch Drive. This was a virgin plot of old growth, wetland forest; a 2nd house now being built. Zoning laws must protect the owners expecting peace and quiet -- not excavation, chain saws, gunfire, ATVs and more. This was an open space I tried to buy so it would not be developed. Every day, I regret not getting that land to protect it.
Our many conserved/town owned properties allow us the opportunity to enjoy recreational usage of land in our community which is wonderful. The amount of new builds in town has many of us concerned and I think the protection of open space for use by all has been brought to the forefront in recent years. I've even heard scuttlebutt about limiting building permits on any annual basis. Everyone is interested and concerned about what will be happening with the Nichevaug Inn property in the future. I think this needs to be addressed sooner rather than later.
Regarding Question 11: Both mom and dad's family for generations lived here. I was born and raised here, left for a few years and came back! We have to be ever vigilant to protect our open land and back properties now. Stick to zoning laws and don't let certain ones over ride them, they are in place for good reason. More updated laws may need to be created. Big dollars and entitlement should not be deciding factors in how land is bought and sold. Thank you to all committee members for helping protect our rural atmosphere! "For all to enjoy," Martha
Love to see more community space! Like community center, community fun space/sports/activities/games/music/art/dance/physical activities center. Community garden would be great too!
Interested in developing food and energy security within the town so we are more self-sufficient as a community.
See comments under Item 6 - a lot more could be done re: online info, maps, signs, etc. to make current resources easier to find/use & more residents & visitors likely to use them.
During Corona time, I found Petersham has many good trails. I hope more people know that. Petersham has great resources! Specially the Davenport pond would be a much better place if the places the previous owners have left behind. They did build several good places. As those places are not paid attention, they are disappearing.
Thank you!!! We love our beautiful town and would like to keep the natural beauty and protection of the land and wildlife.
Indoor, outdoor, space for all ages, & pets. Socialize, recreational, places to meet up all seasons.
EV charging station and Wi-Fi in town
we need more things for young adults, adults and children to do. A community center or just an activities director for the town to keep the town together. Small town but many neighbors are new and strangers to some of us.
Open space, land conservation and recreation are incredibly important for the physical and mental health of residents of all ages.
As a Petershamite, born and bred, I feel the essence of the town is its rural, welcoming, country character; this is something that seems to be getting squeezed out of some other places. Don't want to see it happen here.
I would love easy access to walking that is not on a road, ie, a fairly well-groomed trail where you don't have to worry about twisting an ankle, picking up a dozen ticks, getting lost. A trail 1-3 miles would be great.
A general guide to all conserved lands and bodies of water in Town is needed. Babbitt land needs access for hiking, etc. If there is access, information would be helpful.

Don't spend taxpayers' money. Donations and grants only. Keep our taxes manageable!!
Love being here and the passion for this town and want to make sure we are honoring/repaying indigenous people and being open to all who come here.
We own a farm in Petersham that we rent to farmers. It is our goal to keep the farm, its fields and forests in active management. We support maintaining open space but not creating bylaws and restrictions that prevent farmers from realizing the value of their land when necessary.
As I noted in a previous space provided, I strongly feel we need to focus effort and resources on the open space we have already under protection by various agencies in our town. People value and invest in what they can see and enjoy first hand. Having a collection of protected open space is valuable for wildlife, for environmental health, water and air quality, climate warming mitigation etc. To emphasize those values and further the conservation of unprotected land at municipal expense, I think we have to enhance opportunities to access and experience what we already have in town. The trails which have been created by various entities are not linked, nor are they comprehensively mapped. Trail linkage and mapping for public use are priorities I'd support and work towards. Thank you for surveying residents' opinions. Stephanie Selden
As much as we would all like to have more and better I believe Petersham's infrastructure is enough to financially support where our taxes are residential based. The bigger you get sooner or later you can no longer support the upkeep and that nice little town we once had will be no longer.
Let the bears roam free
In general, I think any purchase of land for conservation should be based on a Town vote as should selling any Town owned property. I would support sale of small Town-owned lots for single family dwellings or elder housing.
Acquiring and protecting open space should be a high priority for the town if it is to retain its rural character.
Some of my answers about not being satisfied with activities for town residents is because I work full time and many activities for folks of all ages are during traditional working hours. It would be great if there were more weekend options for my family to participate in.
I would love to have more areas, indoor and out, to partake in group sports.
Recreation is the one that needs the most improvement.
Suggest that the town promote a careful and clear understanding of the use of private lands. To encourage etiquette. To encourage respectful use. To reduce uncertainty/conflict.
There is a lot of building going on locally and we need to move in order to protect more land before its gone.
Get DCR to lighten up
Have to travel for good water access due to most ponds are manmade and swampy, can only use the Quabbin for certain size boats. Hiking trails are wonderful.
N/A
.
I am very troubled by the lack of zoning. In particular the lack of delineation between farm land and residential. There are a number of situations where large animals are kept on postage stamp lots. This is unhealthy for the animals, owners and the abutters. Reasonable acreage limits based on usage will serve to protect the character of the town and the health of its residents.
Just very glad that you all are pursuing an updated plan and potential funding for our beautiful town. Thank you!
The town playground at the Center School is not resident friendly. Even during the summer they restrict the use of the site to school children. There should be a more user-friendly approach for families in town to use the facility.
I think that the speed on local roads is a huge problem for recreation throughout the town and especially in the town center. I would include traffic calming as a priority to allow people to access passive and active recreation on our protected areas.
Act now
Glad that the survey has started! Hopefully, we'll glean helpful information from it.

Appendix B: OSRP Community Engagement Meeting Agendas

Meeting #1, February 3rd, 2024, 2pm-4pm

Community Engagement Schedule

12:30pm Conway Team arrives at Town Hall, Initial set-up by both teams:

- Set up tables and chairs
- Set up entry table
 - “What brought you here today?” baskets
 - “How important is it…” poster and stickers
- Set up PowerPoint
- Hang maps in central location
- Table Topper #s

Entry engagement: acquisition/conservation question with STICKERS!

- *“How important is it to you for the Town to acquire or conserve open space?”*
- *Box for attendees to add slip of paper answering “Why are you here?”*
- *Pass out table #s*

2pm Core Team introduction: **10 minutes**

- Brief individual introductions
- Define OSRP
- Review 2014 OSRP goals and progress since then
- Introduce Conway team

2:10pm Conway Team introduction: **10 minutes**

- Brief individual introductions
- Review Survey Results
- Define Open Space & mention maps on the table (*Open Space by Level of Protection, Landscape Blocks, Trails*)
 - “Open space is land that hasn’t been built upon.”
- *Core Team distributes vision exercise & pens.*

2:20pm First Activity: **5 minutes**

- Vision exercise, individual
 - rank each component of vision statement as agree/disagree/unsure
 - propose written alternatives
- *Collect Vision exercise, distribute Open Space by Level of Protection map & Trails map*

2:25pm Conway Team introduces next activity: **5 minutes**

- Conway team introduces question, explains maps on the table.
- Individually think through: *WHAT IS YOUR GREATEST CONCERN FOR PETERSHAM REGARDING RECREATION? WHAT IS YOUR GREATEST DESIRE FOR PETERSHAM REGARDING RECREATION?* **1 minute**
- Turn to your neighbor and discuss the same question: **4 minutes**

2:30pm Small group activity: **15minutes**

- In small (table-sized) groups, discuss your responses.
- Use stickers on maps to highlight each person's top concern and desire.
- Attempt to come to consensus over one concern and one desire for the group. This is unlikely to be each person's individual greatest concern or desire.
- **Agree on someone to present your discussion to the group as a whole.**
- *Core team takes bullet point notes on large pads of paper so it is visible to the group*

2:45pm Break: 10 minutes - Core team and Conway team exchange maps (pick up maps with stickers, put down new Open Space by Level of Protection Map and Landscape Blocks map)

2:55pm Switch Theme at tables: **5 minutes**

- Define "conservation"
 - Protection from development
- Individually think through: *WHAT IS YOUR GREATEST CONCERN FOR PETERSHAM REGARDING CONSERVATION? WHAT IS YOUR GREATEST DESIRE FOR PETERSHAM REGARDING CONSERVATION?*
- Turn to your neighbor and discuss the same question: 4 minutes

3:00pm Small group activity: **15 minutes**

- In small (table-sized) groups, discuss your responses.
- Use stickers on maps to highlight each person's top concern and desire.
- Attempt to come to consensus over one concern and one desire for the group. This is unlikely to be each person's individual greatest concern or desire.
- **Agree on someone to present your discussion to the group as a whole.**
- *Core team takes bullet point notes on large pads of paper so it is visible to the group*

3:15pm Whole group discussion: **30 minutes**

- Each small group's presenter discusses what they talked about to the group.
- Conway team adds Post-It's to large maps.

3:45pm Closing.

- Suggest going back to the vision statement on their own

4:00pm: HOWLING COMMENCES

Meeting #2, March 2nd, 2024, 2:30pm-4:30pm

Community Engagement Schedule

2:30pm PowerPoint introduction – Leah, Gina, and Eric

3pm Break out for station activities:

1. Place sticker next to goals you agree with; use sticky notes to add anything
2. Place stickers at trails that need improved access; place stickers in areas that need trail connections
3. Pros and cons for each neighborhood drawing
4. What do you think of build-out map?
5. Eric's exercise #1?
6. Eric's exercise #2?
7. Place stickers on each of the maps over areas you'd like to conserve, given proximity to or overlapping with priority habitat

4pm Discussion

Some of the materials used for activities:

1. Goals from the 2014 OSRP
 1. Protect open space to preserve rural character, natural resources, and minimize inappropriate development.
 2. Support farming, forestry, and ecotourism.
 3. Ensure public access to open space.
 4. Provide access to field sports, court sports, skating, and swimming facilities.
 5. Protect surface waters, ground waters, and wetlands.
 6. Use land development and conservation tools to protect natural ecosystems.
 7. Balance human needs with ecological resources on Town property.
 8. Protect and appropriately reuse historic buildings and landscapes.
 9. Provide Natural History Programs at the Center School.
 10. Plan for climate change.

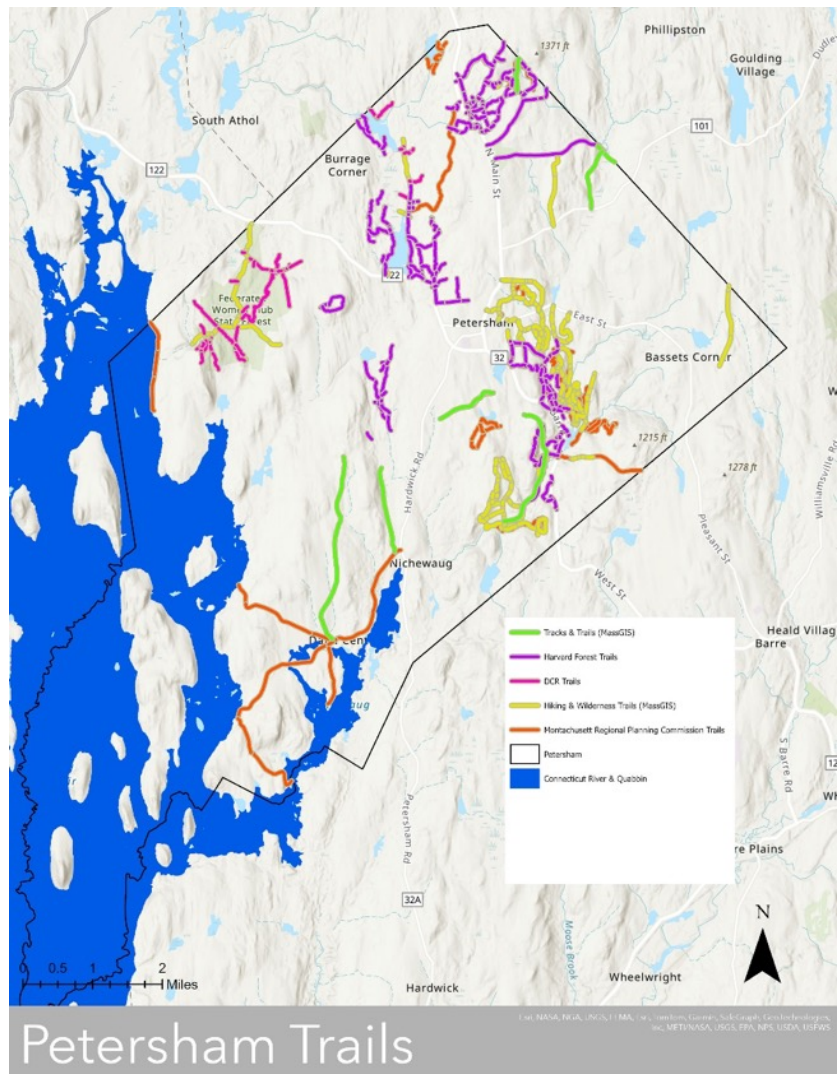
2. Neighborhood mock ups



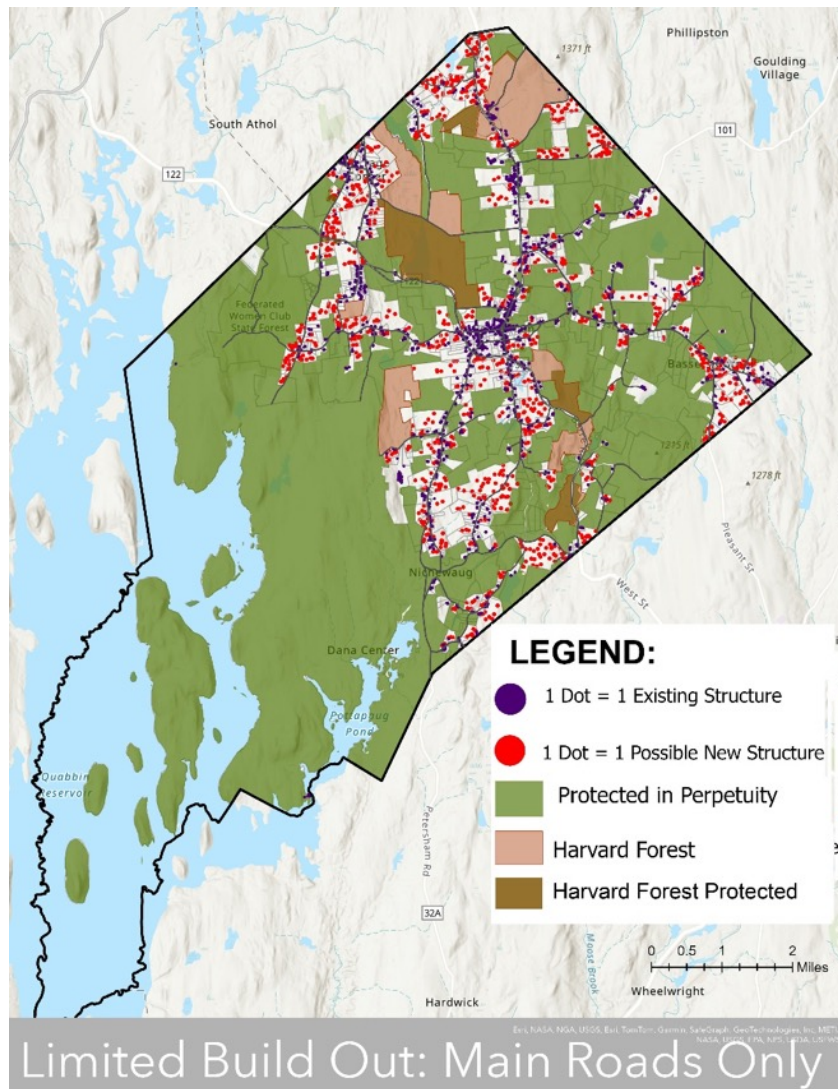
3. Nichewaug bingo

Possibilities for the Nichewaug Inn site										
Trail/Path (21)	Community Gathering Structure (78)	Community Infrastructure (59)	Community Space (56)	Clear Turf Activities (25)	Field/Court Activities (55)	Programmatic Community Activities (13)	Let It Grow (75)	Concerns and Votes Against (6)	Non-Recreation Uses (29)	Key Descriptive Words & Phrases
21 sr walking path	20 sr ice skating rink	12 sr library/septic or expansion	19 sr park	20 sr open field/turf	16 sr tennis	5 sr environmental education/study area	22 sr community garden	2 sr playground	25 sr housing (various types)	rural character
5 sr fitness trail/exercise stations	16 sr community/recreation center (inc. senior)	11 sr fire pit/grill	12 sr dog park	6 sr bocce court	14 sr pickle ball courts	2 sr movie nights	17 sr gardens (including native plants, arboretum)	2 sr retaining current garage	2 sr restaurant (with housing)	picturesque
4 sr accessible walking path	14 sr Pavilion	13 sr playground	11 sr benches	2 sr croquet	5 sr basketball court	2 sr town fairs	12 sr orchard	1 sr noise/pollution/vandalism	1 sr return to Nipmuc	fits town look
1 sr geothermal walkways	14 sr theater/music/dance/art space (inc amphitheater)	4 sr play area for toddlers	10 sr picnic area (benches)	3 sr cornhole	4 sr volleyball court	1 sr board games	8 sr meadows	1 sr just grass	1 sr wood bank	scenic
biking path for youth	5 sr event site	3 sr maze/fairy/tribe	3 sr covered seating	1 sr wheelchair	3 sr badminton court	1 sr summer camp	4 sr return to wild/forested			low-cost
XC skiing	2 sr pool	3 sr parking	1 sr cultural use easement (Nipmuc)	1 sr kite flying	3 sr sports fields, open "pitch"	1 sr competitions (bocce, cornhole, etc.)	3 sr community farm			simple
snowshoeing	2 sr rentable business space	2 sr ev charging	yoga	frisbee sports	3 sr horseshoes	1 sr Friday market	3 sr edible landscaping			profitable
	2 sr pub	2 sr public restrooms		flying models	2 sr soccer field	activities for youth	2 sr pollinator friendly			community building
	1 sr indoor gym	2 sr look			2 sr baseball field	activities for seniors	1 sr tree farm			low-maintenance
	1 sr indoor pool	2 sr sculptures			1 sr skatepark	exercise classes	1 sr spring bulbs			profitable
	1 sr winter snow park	2 sr equipment locker			1 sr shuffleboard	sport/game competitions	1 sr greenhouse			evokes history (Nichewaug Inn)
		2 sr solar			1 sr ping pong		1 sr birdbath			architecturally consistent with town
		1 sr go kart race track					birdwatching			New England town center

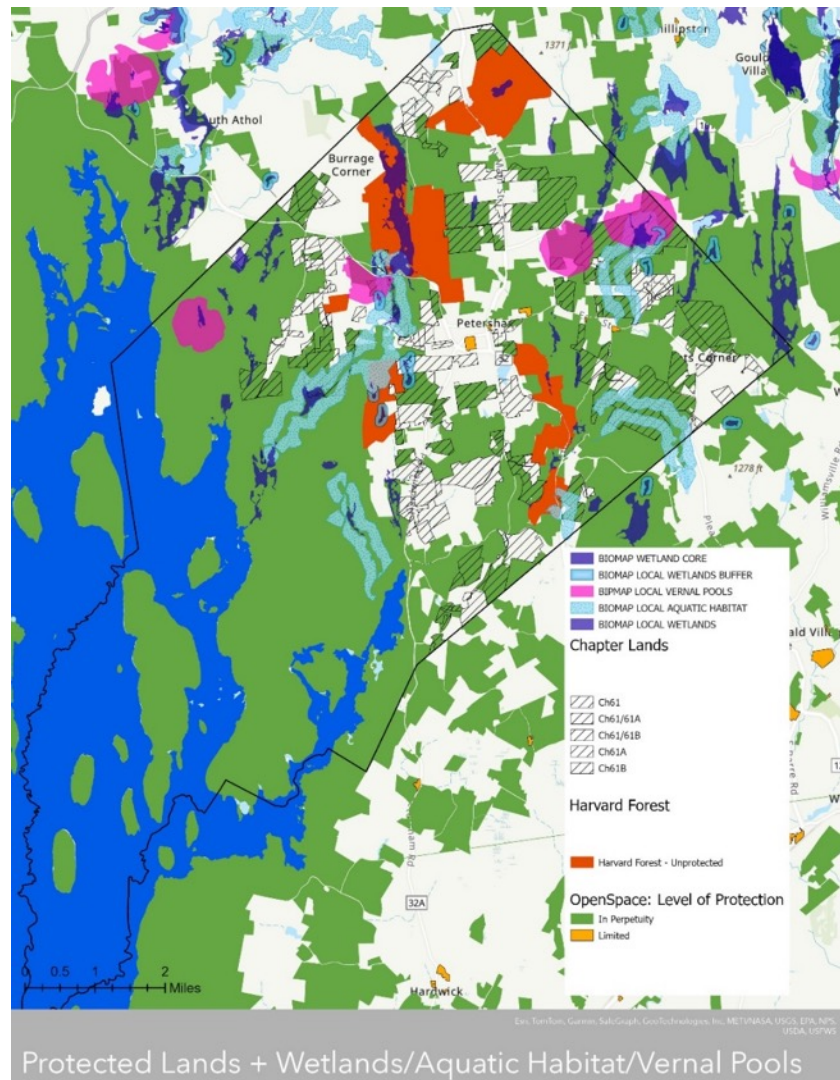
4. Trail map

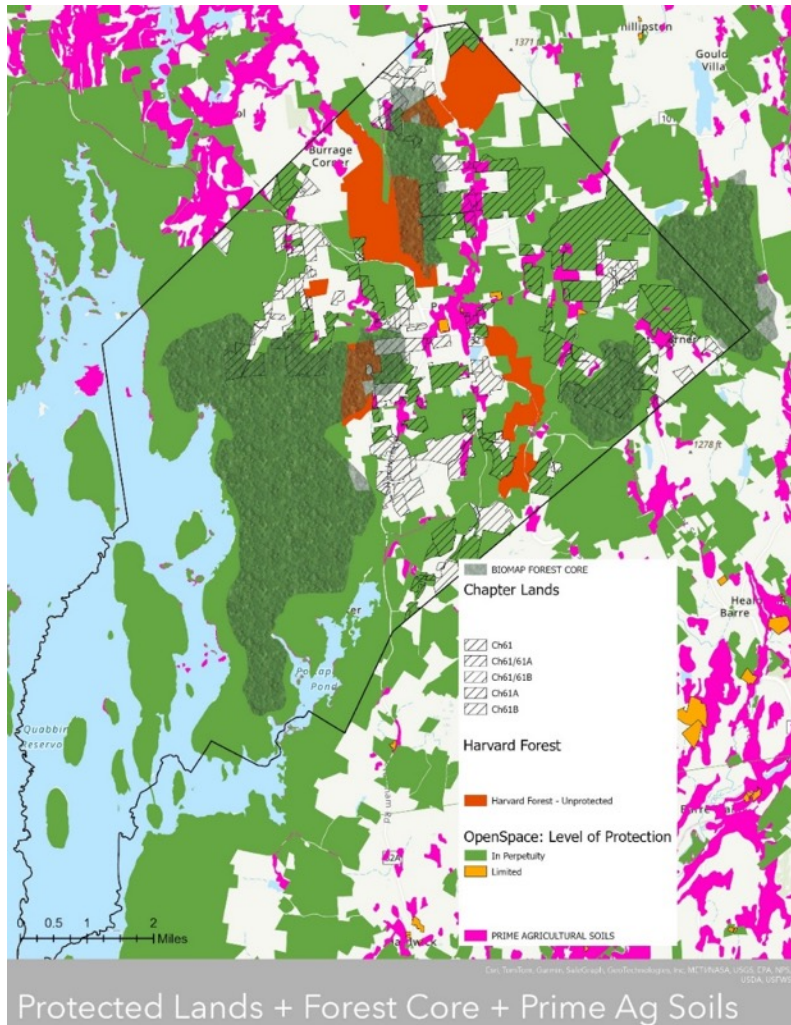


5. Build-out map



6. Priority habitat maps





Appendix C: OSRP Community Engagement Meeting Results

Community Engagement Meeting #1, February 3rd, 2024

Visioning Exercise Results 2/3/2024					
	<p>The rural character of Petersham should be preserved; development should harmonize with the Town's rural character through careful selection and protection of open space and agricultural lands</p>	<p>The town center should remain a small but friendly gathering space, i.e., mainly residences and civic institutions with a few small businesses catering to townspeople and visitors</p>	<p>Petersham's residents help make the town what it is; choices made about housing and public services should strive to keep Petersham a town that is welcoming to people of different ages, income levels, and cultural backgrounds.</p>	<p>The town will continue to meet the challenges that lie ahead and will work cooperatively to address them; fair but effective planning tools will help prepare the Town to handle future growth pressures, and public facilities should be upgraded in a cost-effective manner that minimizes the tax burden on residents.</p>	<p>The character that makes Petersham special is why people choose to live here. Residents and visitors like our town without strip malls, tacky signs, endless subdivisions, and wide roads--and want to ensure it stays that way. Twenty years from now, Petersham will still be a unique and beautiful place in which to live.</p>
Agree	61	52	47	49	52
Disagree				1	
Not Sure		8	14	11	8
	<p>The first sentence on question #1 sums up my vision!</p>	<p>We should try to attract a little more business, not just limited to what we have today.</p>	<p>Note that this is at odds with preserving certain aspects of "character"</p>	<p>What is a planning tool?</p>	<p>Yes, but that doesn't mean it will stay exactly the same.</p>
	<p>agree with caveats</p>	<p>agree with caveats</p>	<p>Not sure this is currently true (i.e. house on corner of Spring and West street cultural differences accepted?) only if assimilation is accomplished</p>	<p>The footprint of working space for town employees should be kept to a minimum. Any projects undertaken should minimize the tax burden, as there are less than 500 households to pay.</p>	<p>agree with caveats</p>
	<p>"development should harmonize" yes</p>	<p>"few small businesses" -- >Growth is important too, as long as it</p>	<p>Not at the expense of the residents to an insupportable degree. Be</p>	<p>Need to get more \$ somehow. Grow the tax base or raise taxes...</p>	<p>Should reflect modernization and increase businesses tastefully protecting</p>

		keeps the feeling. Could have more businesses Doesn't need to be only residences.	sensible and conservative with our money and resources.		the rural feel and in harmony with what is already here.
	Agree with conditions - I agree with this statement if a different term was used than rural character - Rural character is often coded racist language for "white"	We need affordable housing and jobs. (marked unsure)		"minimizes" underlined	Selective increase in density is a must
				"public facilities should be upgraded in a cost-effective manner that minimizes the tax burden on residents" --> this doesn't particularly speak to me.	However, there are downsides to the "BRIGADOON" flavor - Also this has the whiff of snob zoning.
				What does this mean? We have these already - locally and at the legal level if necessary. What is being asked and proposed here? This is a "booby trap" question -- way too vague -- and freighted with socialist policy points.	Only through targeted zoning and planning tools. Petersham is an island and has a unique position within the greater North Quabbin region.
				3/5/24 CEM addition: people are talking like they want a country club - well, country clubs have dues! Need to raise \$!	

Alternative Vision Statements from Residents 2/3/2024

Each community must contribute to the greater Bioregion. Petersham is a place that contributes green space, education, recreation; _____	Cluster housing if there was development. Utilize library land (add it) for pavilion or meeting room.	A place where the open space and trails are clearly mapped together so residents and visitors can understand and enjoy this unique aspect of the town's legacy.	I would like to see the town retain its unique character and landscape. 4 stickers 3/2 CEM
Open space available to residents to enjoy will be clearly marked and defined to further use.	A quiet and peaceful town with open space and public access. 1 sticker 3/2 CEM	The town should welcome newcomers by offering condensed, sustainable development including low-income housing while protecting open space and working in harmony with indigenous groups for shared use.	A town that preserve and continue to enhance wildlife conservation as well as agriculture. Inclusion of diverse resident population 3 stickers 3/2 CEM
The town will conserve our forest, wetland, and meadow habitats, and provide trails and information so that everyone can enjoy them. Our native plant landscapes provide habitat for wildlife and pollinators. 4 stickers 3/2 CEM	Protect as much habitat (land) as possible to maintain the rural character of the town. Provide more outdoor and indoor recreational opportunities for all ages to use year round. 1 sticker 3/2 CEM	The rural character of Petersham is rooted in a working farm and forest landscape, and before that, in sustaining indigenous communities. These should be preserved as priorities.	Important to preserve + enhance town environment in the face of expected pressures for resource exploitation. 1 sticker 3/2 CEM
Petersham should continue to provide environmental protection for the region. 2 stickers 3/2 CEM	I would like to see the town remain a small town, but maintain the open space it has. I don't feel we need to acquire more space.	Petersham should strive to keep its current essential character. But should also adapt to the post-covid societal changes as it relates to remote work.	In the process of preserving and expanding open space should make sure that this does not mean that the current residences will no longer be able to afford to live here as a result of increase in their taxes.
Petersham will continue to conserve additional lands and plan for more residential housing in appropriate locations, while protecting the rural character, water quality, and wildlife habitat.	An inclusive, diverse community with active stewardship of public and private lands and a climate resilient community.	P'town must become a life-long community. Now it is mainly for school-age families. Some retirement. Little to sustain housing young adults, and difficult for elderly.	Preservation of our rural character is essential The town center is first priority, zoning that allows more dense development in the village and requires more frontage and acreage elsewhere would help.

<p>A safe, comfortable, affordable place for all ages. With a few activities to keep people interested and moving.</p>	<p>To maximize use and experience for the public of our vast protected green domains. Build and maintain trail networks so that people can truly prize what we have.</p>	<p>Keep up the good work everybody continue to preserve open space limit the # of building permits. 2 sticker 3/2 CEM</p>	<p>A place that needs to be aware of the future without sacrificing the present.</p>
<p>Petersham will strive to balance conservation space, agricultural space with affordable taxes which support infrastructure, schools and citizen protection.</p>	<p>Town should restrict development pressures and will - many projects which change the town character.</p>	<p>The town should serve the needs of its residents and the Commonwealth's residents at large through offering access to healthy ecosystems and welcoming compatible use of public lands and open space, including hunting (but not on Sundays).</p>	<p>I was struck by the number of survey respondents who were not familiar with rec areas in town - and probably people who didn't respond are even less familiar. So I think before we add more, we should publicize what we have and help people use them.</p>
<p>Develop Nichewaug site for the community.</p>	<p>The Nichewaug property - I don't think should be left as completely open space. Any open space plan should dovetail with the other planning committees that address issues of housing. In particular the need for senior living in some degree of communal in nature. Some codes are too restrictive for new conservation.</p>	<p>Keeping the town beautiful and accessible. Honoring those that took care of it before anyone called it Petersham.</p>	<p>In general any new stuff should be communal to help people meet and get to know each other.</p>
<p>Carefully zoned clusters of housing should be encouraged rather than single family homes on 2 acre parcels. Police and fire need modernized facilities in the town center. Our library needs room for septic.</p>	<p>Need to include the ability for more affordable housing. The town is beautiful but is aging out.</p>	<p>Petersham should be a place where people of different ages, income levels, and cultural backgrounds feel welcomed. Development should be inclusive but all support nature.</p>	

Community Engagement Meeting #2, March 2nd, 2024

2014 Open Space and Recreation Goals		# stickers of sticker responses on 3/2/24
Goal 1:	Protect a significant portion of Petersham's unprotected open space in order to preserve the Town's rural character, protect its natural resources, and minimize development in inappropriate areas.	10
Goal 2:	Maintain and expand the Town's "working landscape" of farming and forestry operations and promote ecotourism.	8
Goal 3:	Ensure that large portions of the Town's open space remain open to the public.	6
Goal 4:	Provide adequate access to active recreation facilities for field sports, court sports, skating, and swimming.	6
2014 Natural and Historic Resource Goals		# stickers of sticker responses on 3/2/24
Goal 5:	Protect the Town's surface water, ground water, and wetland resources.	7
Goal 6:	Minimize the destruction and fragmentation of natural ecosystems through carefully targeted open space protection and ecologically-based land development regulations.	9
Goal 7:	Manage the Town's open space to achieve an optimal balance between habitat and water resource conservation and various educational, recreational, and potential revenue generating uses.	4
Goal 8:	Protect historic buildings and landscape features from destruction or inappropriate alteration, and encourage the adaptive reuse of historic buildings.	4
Goal 9:	Provide Natural History Programs at the Petersham Center School and for the community	3
Goal 10:	Establish plans and contingencies for mitigating the effects of climate change.	6
10a	written in: "including tree pests that could decimate street trees (think ALB in Worcester)"	1

Improve Existing Recreation	
Location	Issue
Sunset Lane	Sunset Lane trails: improved signage
Barn Pond, Hulbert Pond	Better advertising for town ponds: -Town Barn Pond -Hulberts Pond (South St. Nichewaug) great skating + (maybe canoeing) spring + fall when lilies are gone
Gebo's Creek, California trail	on his CR Gebo's Creek California Trail major tributary to the Swift - great trail opp!
	Rites of passage for indigenous groups - afford Nipmuc special access (history requires it) to private CR lands places to camp?
	snowmobile access

	(written in response to snowmobile access) no - sorry! Snowmobiles are super noisy, messy and polluting
New Recreation Opportunities	
Location	Activity
Nichewaug	accessible walking paths
PCS	basketball & low hoops for kids at PCS
Brown's Pond	saw lots of ice fishing on Brown's Pond this year
Davenport Pond	accessible trail to Davenport Pond
Harvard Pond	good ice-skating this year at Harvard Pond

Final Discussion Notes		
utilize existing gathering spaces before building new ones		
library is already a community space		
	more than just a quiet place for reading	
	many activities already happening there	
	potential to coordinate and expand activities	
	needs improved communication to realize potential	
streamline online communications		
	fb, websites, Petershamcommon.com	
importance of viewshed protection		
	benefit for everyone who sees it	
Chapter 61 Lands		
	Be aware of parcels put on market	
Light Pollution		
	currently no by-law but ZBA (?) has included it in site approvals	
Recreation Director		
Trail Maintenance		
	Harvard Forest corps to assist with conservation and trail maintenance	
	needs town point person	
	cost, labor	
Affordability, Comprehensive (nee Master) Plan		
Aging in Place Challenges		
	walkability in center of town	
	single floor homes	
need for maintenance, safety		
	Davenport dam, shed, stage	
		8k to remove trees

		\$150k to repair dam, \$200k to remove as per Ann Lewis
Actionability, transparency		
	some things will need vote, most will need to go through committee, many will have to go through grant process requiring both/either	
Nichewaug Inn site		
	development is a recurrent theme	
	senior housing	
	should be public use	
		question of with or without structures
		create a pro/con list and vote on it
	shared water/septic with library	
	Comprehensive Plan useful for figuring out Water Supply	
	one person (Sue?) categorized potential uses as: developed/business, senior housing, public use with structures, public space no structures	
		create committee to draw up pros aand cons of the 4, make a plan & vote on it
Eric's one-on-one notes 3/2/24 CEM		
Mary Ann	Importance of gathering/growing/hunting/fishing food especially focused on wanting to ensure hunting rights	
Josh	he was struck by # places people aren't familiar with (re: survey Q 6)	
	idea for interactive map to show locations of different recreation possibilities	
John Ewing	trails versus "wild area" for hunters	

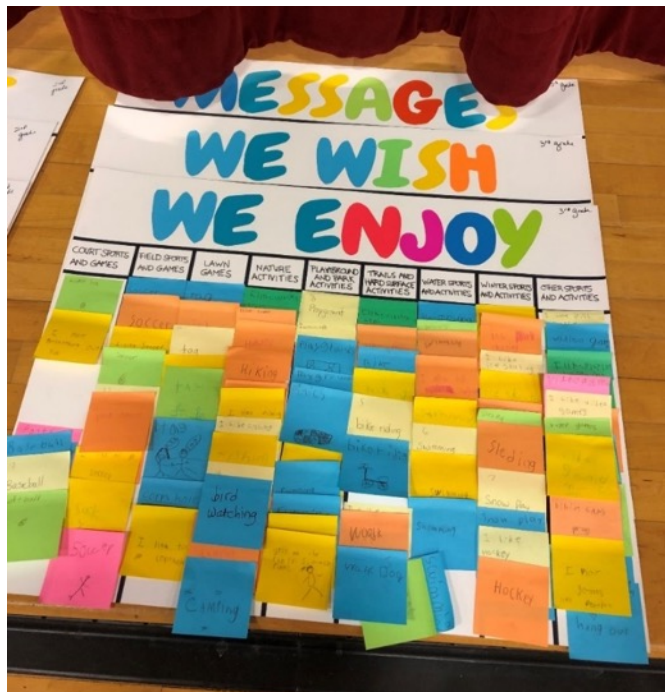
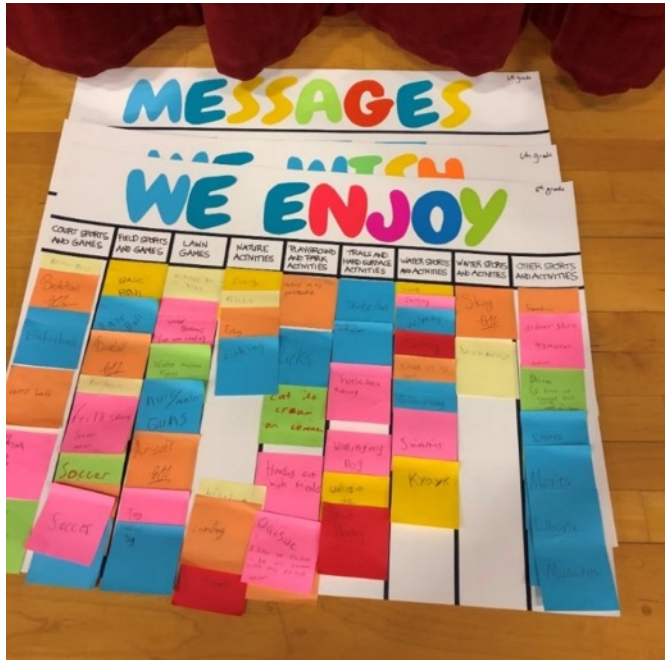
Combined Results from Meetings #1 and #2

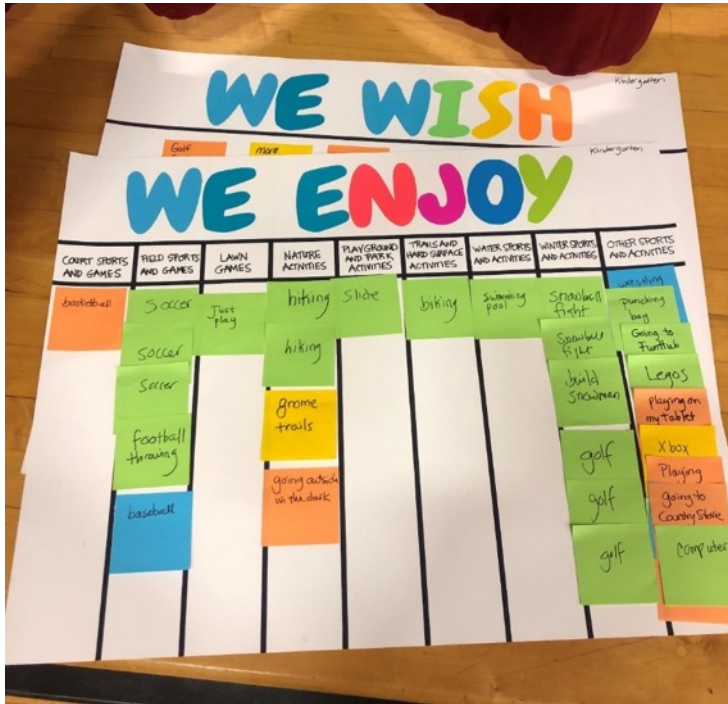
Community Meeting Responses			
GENERAL TOPIC	Group Sheets	Individual Sheets	Total Responses
Community Space	28	20	48
Development	25	19	44
Roads, Sidewalks, Trails	21	31	52
Nichewaug*	21	0	21
habitat	17	17	34
Communication (generally re: access)	16	15	31

*The structure of the event was such that the site-specific items were not generally included on the individual sheets.

Appendix D: Core Team Center School Visit

The Core Team went to the Center School on the morning of Friday, March 1st, and conducted a poll with all students about their desires for recreational opportunities in Petersham. While the Conway team was not involved in these interviews, they loved the presentation of the results and wanted to include them here for reference.





MESSAGES: What do you hope for your town by the year 2030?					
2nd Grade	3rd Grade	4th Grade	5th Grade	6th Grade	
zoo	to be in a band	more animal shelters and animal rescue centers	I hope there is more trails in Petersham	healthy environment and place for people who are different and like to walk on all fours as a thereian	
zoo	to have a car	an animal shelter	no more cutting trees	add stores	
zoo	my dog not to be sick	I would like to have a place to protect animals	trees!	more houses	
zoo	drive a car	more affordable houses	more trees and woods and bunnies all over the place	I want more places where you can get a job	
zoo	I hope my family stays healthy	more affordable houses	a house trees all Petersham	I hope that in 2030 there are more sports because right now all there is soccer and baseball. I also hope that we could have more natures classroom.	
I want the town to be safe for the people	I wish in the future I can go to the Florida museum	more affordable houses		I think we should have more places for kids our age because I keep hearing that there aren't enough spaces for 9-12 year olds.	
to stay a town	to fix my pool	country clubs	pride parades yes, pride parades	I wish for nothing. I think the town is perfect.	

to be fun	animals and plants	animal shelter	I want it to be a safe place for e.v.e.r.y.o.n.e.	sidewalk sign that flashes when someone presses the button
I want to see a nice open space	I wish in the future to be wrestling	more homeless shelters	kind people	better intersections in Petersham
open space	to be a vet	more family owned businesses	maybe a bigger community garden	More sidewalks to ride a bike home. Stop signs and traffic lights
open space	I would be a zookeeper	more people/kids	sports that cost less money to play	smoother roads and streets
more room	protect future	I want to see more kids, more animals, more open space, more happy people	stop littering	keep forests
restaurant	animals	I want to see it change more, more houses, more people	I hope it is clean	clean towns, more trees, being safe outside alone
pet store	eagles	I want an indoor/outdoor basketball court and more people	science fairs	plant trees
Hershey chocolate shop	nursing home	keep the population the same	I hope there is more stuff to do	I hope they do not mix classes like before end of 2024 Dana/Prescott/Petersham School.
a dog park	I wish for nursing homes	getting more open space	a mall	keep libraries
dog park	fixing cars	more open space	a house of leggo	Athol should change just a little bit.
dogs	smart houses	open space	art!	Keep technology the same!
dog	city on Mars	more greenery and trees, not too many buildings	trampoline park	The town is perfect
kittens and pups	be with animals	more stores	big pool in Petersham	
cat	cheetahs/baby cheetahs	more stores	I hope there are more sports fields	
duck-duck goose game	animals	extend border by 10 miles so things like Walmart can be built in here	horses everywhere	
a school	save the tigers	I want to have a tree park in town	cats!	
space and kindness	help eagles	more activities like sports teams or open gym at the school	hamsters invading MA	
I wish there was more school	more trees	to see ol? gola in the woods	bunnies in every little or big spot in the world	

school	more bushes	indoor swimming pool	I like it the way it is	
I want my parents to let me relax?	more animals	a pool	no Mickey Mouse	
sledding	more nature	more teacher help	no more killing animals	
ice skating	I really want to save the animals		dwarf hamsters	
I want to be rich	I want to save my stuffed animals		pandas everywhere	
I want to have 1,000,000 dollars	I hope they make a cure for covid			
Yeezy Slide stores	play games like tag			
hot tub	I wish in the future Fortnite will be the same			
	protect Queen lake			
	more lakes to swim in			
	save monarch butterflies			
	protect animals			
	butterflies protect			
	protect eagles			
	16 years old - nature			

Core Team Visit to Center School - Summary

The Petersham Center School is located just south of the Town Center and serves 139 students in grades K–6 who live in town and several neighboring towns. The school has a gymnasium, playground, lawns, playing fields for sports, and access to nearby meadows, woods, and wetlands for nature programs. The gymnasium is used for court sports and there is an outside area for basketball; the youngest students would benefit from an adjustable basketball hoop. The sports fields are used for soccer, baseball and softball, and some students voiced an interest in batting cages and a football field. The pickleball court equipment purchased by the Open Space & Recreation Committee is used by adults on Friday evenings in the gym during after-school hours and could be used by students during school hours.

The spacious lawns and fields are used for walking, running, and games like duck-duck goose and tag. Some students would also enjoy paint ball, water balloons, laser tag, and playing golf. During COVID-19 the lawns provided an open space for residents and visitors to enjoy outdoor music organized by Petersham Jams. During the student polling, teachers indicated that the

school is exploring installing an outdoor pavilion to provide a gathering place for outdoor learning, recreation, art, and other activities.

Students expressed an interest in a pool or place to swim and play in water, and they would enjoy a rink for ice-skating and hockey. They want safe roads, intersections and sidewalks for bicycle riding, running, walking, scootering and skateboarding. While students indicated they spend a lot of time on computers or playing video games, they also enjoy nature for hiking, wildlife, camping, fishing, horseback-riding, building forts, and climbing trees.

A number of students want to protect trees, animals, butterflies, and pets, reduce littering, and have a community garden. A number expressed how they want to protect their families, the elderly, and the homeless. Many enjoy the Petersham Memorial Library, The Country Store, and eating ice cream on the Town Common, but they also wish for a variety of food stands, stores, arcades, and parks.

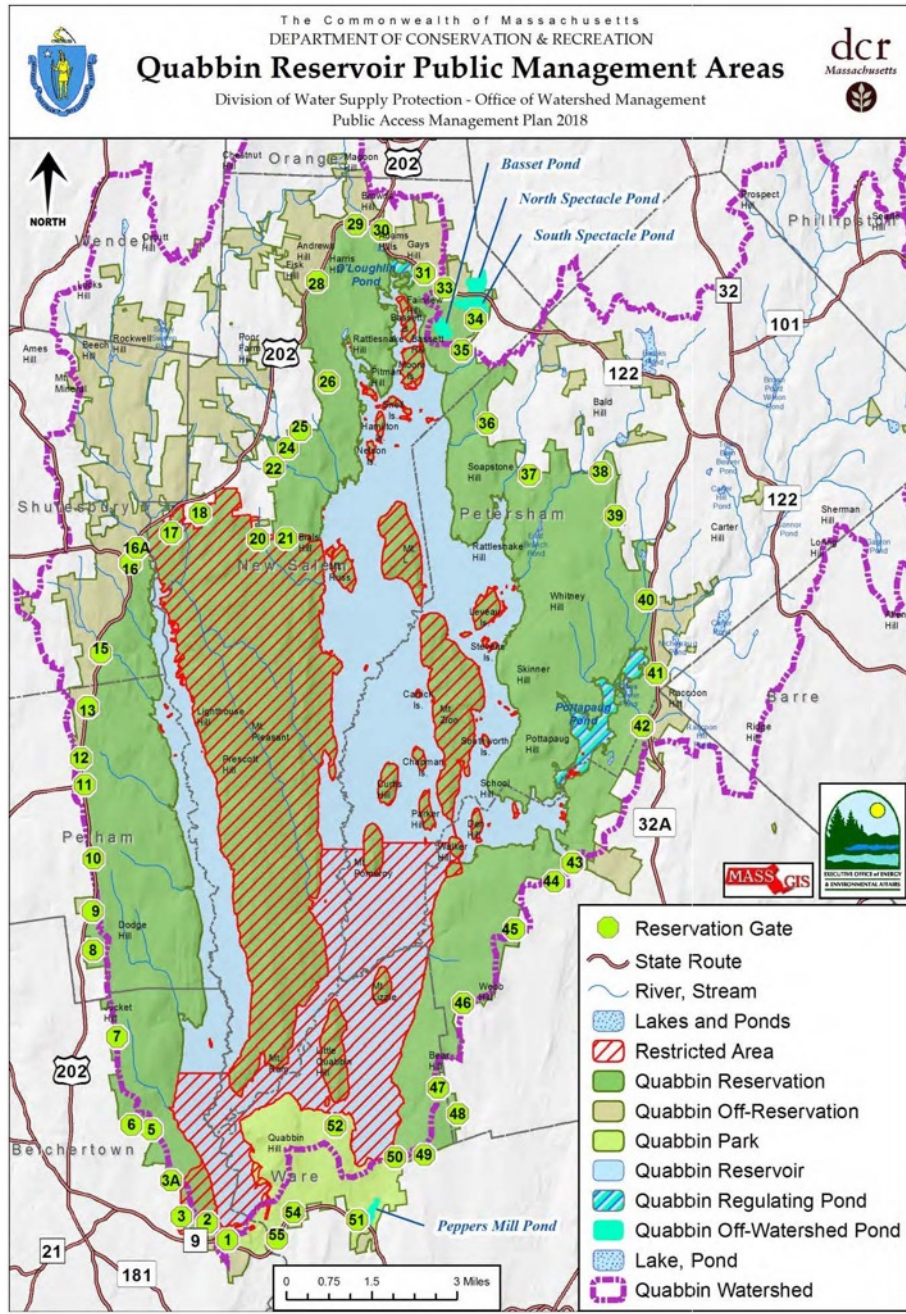
The student poll and adult survey shared some common interests and desires. They both expressed interest in protecting and enjoying nature, maintaining the town's beauty and rural lifestyle, and having an outdoor space for communal gathering. A few voiced a desire to keep the town exactly the way it is. They also shared a common desire to balance protecting the town as they know it with increasing a diverse community that offers local opportunities for work, recreation, food, shopping, and affordable living for everyone.

Appendix E: Conservation Strategies and Resources

1. **Community Preservation Act (M.G.L. Chapter 44B):** Becoming a Massachusetts Community Preservation Act community would enable the town to apply for matching grant funds for open space preservation, preservation of historic resources, development of affordable housing, and acquisition and development of outdoor recreation facilities. The town would have to do so by passing a referendum which includes approving a real property surcharge of up to 3%, which would fund the program in Petersham. The base state match in November 2023 was 21.02%. <https://www.mass.gov/doc/igr-2019-14-community-preservation-fund>
2. **Cost of Community Services Step by Step Guide:** Similar to above, this guide from masswoods.org details how to calculate Cost of Community Services ratios. <https://masswoods.org/sites/masswoods.org/files/pdf-doc-ppt/COCS%20step%20by%20step%20guide.pdf>
3. **Costing Municipal Services Workbook and Case Study:** This document provides guidelines to determine costs of services provided by the town, factoring in all resources, not just expenditures made. <https://www.mass.gov/doc/costing-municipal-services-workbook-and-case-study-0/>
4. **Massachusetts Clean Energy and Climate Plan for 2025 and 2030:** “By the end of 2024, the Massachusetts Executive Office of Energy and Environmental Affairs (EEA) will develop and seek to advance new legislation to support the goal of No Net Loss of Forest and Farmland. This will include amendments to the Chapter 61 and 61A current-use programs to allow parcels of two acres or more to qualify (current tax incentives are for conserving forest land of 10+ acres and farmland of 5+ acres). This will also include a state payment in lieu of taxes (PILOT) bonus to facilitate land protection in rural communities with a low tax base and high percentage of state conservation land.” <https://www.mass.gov/info-details/massachusetts-clean-energy-and-climate-plan-for-2025-and-2030>
5. **Massachusetts Community Forest Stewardship Program:** Funding is available to assist with carrying out Forest Stewardship Plans. <https://www.mass.gov/doc/community-forest-stewardship-grant-program/>
6. **Massachusetts Division of Fisheries & Wildlife Guidelines for the Certification of Vernal Pool Habitat:** Vernal pools that are not certified may also be protected by local conservation commissions or the DEP if credible scientific evidence is presented prior to the end of the appeals period for a Superseding Order of Conditions (OOC) issued by the DEP. <https://www.mass.gov/info-details/vernal-pool-certification>
7. **Massachusetts Joint Bill (H.897/S.447), *An Act relative to the Quabbin watershed and regional equity*:** If passed, the bill would raise PILOT payments in the Quabbin Watershed, which could increase Petersham’s budget and ability to engage in future conservation and recreation efforts. <https://malegislature.gov/Bills/193/S447>

8. **Massachusetts Statewide Comprehensive Outdoor Recreation Plan (SCORP):** SCORP helps guide the distribution of federal money from the Land and Water Conservation Fund to state agencies and municipalities for the acquisition of open space, renovation of existing parks, development of new parks, and trail development. <https://www.mass.gov/doc/massachusetts-statewide-comprehensive-outdoor-recreation-plan-2023-scorp-2023/>
9. **Community Planning Grant Program:** Funding is available for a variety of planning purposes, including Master Plans. <https://www.mass.gov/doc/fy25-community-planning-grant-program-guidelines/>
10. **Mass Audubon Barre Conservation Project:** Mass Audubon is collaborating with several partners and landowners to permanently protect 973 acres in the vicinity of Rutland Brook Wildlife Sanctuary. https://www.massaudubon.org/our-work/resilient-lands/land-conservation/news-project-updates/hawes-hill-urgent-land-project?utm_source=explorations&utm_medium=email&utm_campaign=donate&utm_content=haweshill
11. **MassDEP Drinking Water Health and Safety:** The Commonwealth of Massachusetts provides a number of resources for protecting drinking water supplies, including lead and other contaminants. <https://www.mass.gov/drinking-water-health-safety>
<https://www.mass.gov/lists/drinking-water-contaminants-information-for-the-public>
<https://www.mass.gov/doc/private-well-guidelines/>
<https://www.mass.gov/how-to/find-a-certified-laboratory-for-water-testing>
<https://eeaonline.eea.state.ma.us/DEP/Labcert/labcert.aspx>

Appendix F: Quabbin Reservoir Watershed System Public Access Policies



2018 Quabbin Reservoir Watershed System
Public Access Management Plan Update

**Quabbin Reservoir Watershed System
Public Access Policies - 2018**

<i>Activity</i>	Quabbin Park	Quabbin Reservation	Off-Reservation	Quabbin Reservoir	Regulating Ponds	Off-Watershed Ponds
VEHICLE ACCESS						
Driving for Sightseeing	<input type="checkbox"/> ¹	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Snowmobiling	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> ²	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ATV Riding	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Bicycling -Designated Roads	<input type="checkbox"/> ³	<input type="checkbox"/> ⁴	<input type="checkbox"/> ⁵	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Off-road Bicycling	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Sledding	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
FOOT ACCESS						
Walking/Snowshoeing	<input type="checkbox"/> ⁶	<input type="checkbox"/> ⁶	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cross-country Skiing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Hunting/Trapping	<input checked="" type="checkbox"/> ⁷	<input checked="" type="checkbox"/> ⁷	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Ice Fishing/Ice Skating	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> ⁸
Shore and Stream Fishing	<input checked="" type="checkbox"/> ⁹	<input type="checkbox"/> ¹⁰	<input type="checkbox"/> ¹¹	<input type="checkbox"/> ¹⁰	<input type="checkbox"/> ¹⁰	<input type="checkbox"/> ¹¹
WATER ACCESS						
Boat Fishing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> ¹²	<input type="checkbox"/> ¹³	<input type="checkbox"/> ¹⁴
Canoeing/Kayaking/Boating	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> ¹³	<input type="checkbox"/> ¹⁴
Wading (fishing, launching)	<input checked="" type="checkbox"/> ¹⁵	<input type="checkbox"/> ¹⁶	<input type="checkbox"/> ¹⁶	<input checked="" type="checkbox"/> ¹⁷	<input type="checkbox"/> ¹⁷	<input type="checkbox"/> ¹⁵
Swimming	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
OTHER ACCESS						
Group Activities (weddings, organized walks, tour buses, etc.)	<input type="checkbox"/> ¹⁸	<input type="checkbox"/> ¹⁸	<input type="checkbox"/> ¹⁸	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Geocaching and Related Activities	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> ¹⁹	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Wildlife/Bird Watching	<input type="checkbox"/> ²⁰	<input type="checkbox"/> ²⁰	<input type="checkbox"/> ²⁰	<input type="checkbox"/> ²⁰	<input type="checkbox"/> ²⁰	<input type="checkbox"/> ²⁰
Night Access	<input checked="" type="checkbox"/> ²¹	<input type="checkbox"/> ²²	<input type="checkbox"/> ²²	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> ²²
Organized Sports	<input checked="" type="checkbox"/> ²³	<input checked="" type="checkbox"/> ²³	<input checked="" type="checkbox"/> ²³	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Dogs/Other Animals	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Horseback Riding	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Metal Detecting	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Foraging	<input type="checkbox"/> ²⁴	<input type="checkbox"/> ²⁴	<input type="checkbox"/> ²⁴	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Camping	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Fishing Derbies	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> ²³	<input checked="" type="checkbox"/> ²³	<input checked="" type="checkbox"/> ²³	<input checked="" type="checkbox"/> ²³
Target Shooting	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Advertising	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Marking or Cutting Trails/Roads	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Unmanned Aerial Vehicles	<input checked="" type="checkbox"/> ²⁵	<input checked="" type="checkbox"/> ²⁵	<input checked="" type="checkbox"/> ²⁵	<input checked="" type="checkbox"/> ²⁵	<input checked="" type="checkbox"/> ²⁵	<input checked="" type="checkbox"/> ²⁵
Alcohol (possession of)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Commercial Activities	<input checked="" type="checkbox"/> ²³	<input checked="" type="checkbox"/> ²³	<input checked="" type="checkbox"/> ²³	<input checked="" type="checkbox"/> ²³	<input checked="" type="checkbox"/> ²³	<input checked="" type="checkbox"/> ²³
Other	Please call the Quabbin Visitor Center 413-323-7221 or Watershed Ranger Station 413-323-0192					

Prohibited Allowed - general restrictions [#] Specific Restrictions

*Please click on each activity name for additional details about that particular public access policy.
A map of the different management areas is at the end of this document.*

General Restrictions:

- General public access within the Quabbin Reservoir Watershed System is restricted to one hour before sunrise and one hour after sunset through gates or designated (posted) areas only. Any activity which injures or defaces the property of the Commonwealth is strictly prohibited. This chart is based on the Watershed Protection Regulations 313 CMR 11.00, copies of which are available at the Quabbin Visitor Center. Littering is strictly prohibited. Carry in/Carry out. Do not feed wildlife.**

Specific Restrictions:

- ¹ The Winsor Dam and Goodnough Dike have restricted vehicle access for security reasons. Operational needs will require some Quabbin Park gates to close before the regulatory access times of one hour before sunrise until one hour after sunset; closing times will be posted on Quabbin Park gates. Operators of motor vehicles shall obey all regulatory signs unless otherwise directed by a police officer or person in charge.
- ² Snowmobiling is allowed only on DWSP designated routes located on Off-Reservation land. 302 CMR 12.14 applies.
- ³ Bicycling is only allowed on designated roads in Quabbin Park. See DWSP bicycling maps. Helmets and protective gear are required by MA law for children under 16 years of age and recommended for others
- ⁴ Bicycling is allowed only on designated roads through DWSP gates 29, 30, 31, 35, 40, 43A & B, and 44. Bicycling is only allowed on designated roads through Gate 8 during fishing season. See DWSP Bicycling map for designated roads. Bicycling is not allowed on the baffle dams.
- ⁵ Bicycling is allowed on main forest roads only within Off-Reservation lands with seasonal restrictions (e.g., mud season).
- ⁶ Walking or snowshoeing access is allowed within the Quabbin Reservoir Watershed System, except in restricted areas (e.g., Prescott Peninsula, posted administration areas, reservoir islands, and along the baffle dams).
- ⁷ Hunting and trapping are prohibited except by permit during the Quabbin Controlled Deer Hunt and MassWildlife's White-tailed Deer Hunt for Paraplegic Hunters. Contact the Quabbin Visitor Center for more information.
- ⁸ Ice fishing, ice skating, and carry-in boat access allowed only on three Off-Watershed ponds: South Spectacle, Bassett and Pepper's Mill Ponds. Please call Watershed Rangers, if accessing, at 617-828-2452.
- ⁹ No fishing in Quabbin Park except catch-and-release fly fishing (allowed all year) below the Winsor Dam in the Swift River, unless posted.
- ¹⁰ Shore fishing along the reservoir and along streams is permitted between Gates 8-16 (ending at West Branch of Swift River) and 22-44 (except on baffle dams), by foot, during the designated Quabbin Fishing Season only. See the current Quabbin Fishing Guide and Map available at the Quabbin Visitor Center. Fishing is not allowed on the baffle dams.
- ¹¹ Shore fishing within Off-Reservation lands and along Off-Watershed ponds is allowed year round according to state fishing regulations.
- ¹² Boat access on designated areas of reservoir or Regulating Ponds requires a valid MA fishing license and size/motor restrictions. Wearing boots is mandatory if wading while launching or removing boats at designated areas from the reservoir. Fishing access using DWSP-supplied canoes, kayaks, or jon boats is allowed only through Gate 31 above regulating dam and through Gate 43 on Pottapaug Pond with restrictions. Contact the Quabbin Visitor Center at 413-323-7221 for more information regarding the current fishing guide and the recent decontamination/boat seal requirements for all private boats.
- ¹³ Private canoes and kayaks are not allowed on the Regulating Ponds, however DWSP rents canoes and kayaks on a first come-first serve basis at Boat Launch Areas #2 and #3 for use on the Regulating Ponds at these areas. Fishing/sporting licenses or Quabbin fishing licenses are required for renting boats. All boating regulations for Quabbin Reservoir apply to these crafts. Fishing access using private jon boats with valid Quabbin Boat Seal is allowed only through Gate 31 above regulating dam and through Gate 43 on Pottapaug Pond with restrictions. Contact the Quabbin Visitor Center at 413-323-7221 for more information regarding current Fishing Guide.
- ¹⁴ Carry-in boat access is allowed on Off-Watershed ponds with DWSP size restrictions. See night access policy, if applicable. Allowed subject to MA boating regulations. Please call Watershed Rangers, if accessing, at 617-828-2452.

- ¹⁵ Wading with waders is allowed off-watershed below the Winsor Dam Power Station on the Swift River
- ¹⁶ Wading in waders is allowed in tributaries between Gates 8-16 (ending at West Branch of Swift River) and Gates 22-44, except in restricted areas, and in off-reservation tributaries.
- ¹⁷ Wading in the reservoir is prohibited except while launching or removing boats while wearing boots, at designated boat launch areas.
- ¹⁸ Allowed without a permit for groups of less than 25 individuals and less than 10 cars and/or 10 motorcycles. Permit required for group of 25 through 100 individuals or 10-40 cars/motorcycles or one bus. Special ceremonies (weddings, memorials) limited to 75 people.
- ¹⁹ Review by Quabbin Visitor Center required for any cache placement (also applies to “munzing,” “letterboxing,” “questing,” and other forms of related “hide and seek” activities).
- ²⁰ Wildlife/bird watching is permissible if conducted in conjunction with any permitted access activity, including night access. Access is prohibited on frozen reservoir and regulating ponds. Group viewing must obtain either a short-term birding access permit or a group activity permit.
- ²¹ Night access within Quabbin Park is prohibited except at two locations. It is allowed without a permit on the Swift River below the Y Pool, if access is from Route 9, and on Pepper’s Mill Pond, provided that access is limited to the immediate banks of the Swift River, Y Pool, or Pepper’s Mill Pond only. Access to the Swift River, Y-Pool and Rt. 9 parking area is prohibited between 11 p.m. and 4 a.m.
- ²² Night access within Quabbin Reservation is allowed by permit for pedestrians only through Gates 16, 31, 35, 41, and 43 only during the designated Quabbin fishing season. Night access directly from Route 122 is allowed without a permit on South Spectacle Pond (off-watershed). Night access is allowed on off-reservation lands with permit. Contact Quabbin Visitor Center for permit information.
- ²³ Prohibited except by written permission from DWSP.
- ²⁴ Foraging is allowed only for the collection of edible plants, such as blueberries and mushrooms, in a non-disruptive manner and for non-commercial use.
- ²⁵ Takeoff or landing from DWSP land prohibited except by written permission from DWSP.

Appendix G: ADA Access Self-Evaluation

Petersham does not have a recreation commission or parks department. The Open Space and Recreation Committee depends on volunteers to provide two regular recreation programs. They are ping pong on Wednesday mornings at Town Hall and pickleball on Friday evenings at the Center School. A 3-stop elevator at Town Hall installed in 2020 provides full access to all three building levels; and viewed in its entirety, the Center School including its gymnasium, is substantially accessible compliant (Town of Petersham Self-Evaluation and Transition Plan September 2018).

There are two large parcels owned and managed by the Petersham Conservation Commission. The Conservation Commission has no employees and depends on volunteer help and contracting of maintenance activities, which includes field restoration and annual mowing at the Babbitt Wildlife Sanctuary (approximately 53 acres). Trail maintenance and improvement at the Davenport Pond Property (approximately 80 acres) have been conducted through groups of volunteers. These properties have no recreation or other facilities. These properties are open to the public for hiking and passive recreation, but the Conservation Commission does not provide organized programming. Both properties are under development for parking, which will include handicapped parking, improved access, and trail improvement. A 2024 Self-evaluation and Transition Plan Update and the ADA Self-evaluation form found in the [OSRP Workbook](#) follow for both properties



**TOWN of PETERSHAM
OFFICE of the SELECTBOARD**

3 South Main Street / P.O. Box 486
Petersham, Massachusetts 01366

www.townofpetersham.org 978-724-3353 Fax 978-724-3501

April 11, 2024

Petersham Selectboard
3 S. Main St
Petersham MA 01366

To the Selectboard:

Please be advised Robert Legare has been appointed as ADA Coordinator for Petersham, effective April 11, 2024.

Thank you,

Susan Dougherty
Chair, Petersham Selectboard

Petersham Babbitt Wildlife Sanctuary: 2024 Self-Evaluation and Transition Plan Update

1. Introduction

The Babbitt Wildlife Sanctuary is an important part of the Town of Petersham's efforts to conserve natural habitats and provide recreational opportunities for residents and visitors. This update to the 2018 Self-Evaluation and Transition Plan focuses on addressing accessibility issues to ensure the sanctuary is welcoming and usable for all individuals.

2. Current Accessibility Challenges:

a. Parking Lot Accessibility

Issues Identified:

The parking lot surface is not stable, firm, and slip-resistant.

The parking lot lacks proper accessible parking signage.

Non-compliance with 2010 ADA Standards for Accessible Design (ADAS) sections 502.6, 502.2, and 502.4.

Priority: 2

Rank: 2

Time Frame: Near future

Estimated Cost: \$2,500

b. Accessible Route

Issues Identified:

The site does not provide an accessible route due to grass and uneven wooded trails.

Non-compliance with 2010 ADA Standards for Accessible Design (ADAS) section 302.1.

Priority: 3

Rank: 2

Time Frame: Future project

Estimated Cost: \$25 per square foot

3. Goals for 2024-2028

To address these challenges, the following goals have been established:

a. Parking Lot Improvements

Objective: Ensure the parking lot is stable, firm, and slip-resistant, and includes proper accessible parking signage.

Action Plan:

Resurface Parking Lot: Apply a stable, firm, and slip-resistant material to the parking lot surface.

Install Signage: Add ADA-compliant accessible parking signs.

Compliance Check: Verify compliance with ADAS 2010 sections 502.6, 502.2, and 502.4.

Budget: \$2,500

Timeline: Near future (2024-2025)

b. Creation of Accessible Routes

Objective: Develop accessible routes from the parking area to key facilities within the sanctuary.

Action Plan:

Pathway Construction: Construct accessible pathways with stable, firm, and slip-resistant surfaces.

Compliance Check: Ensure pathways comply with ADAS 2010 section 302.1.

Budget: \$25 per square foot

Timeline: Future project. Additional planning needed

4. Implementation Plan

To achieve these goals, the following steps will be taken:

a. Funding and Budgeting

Grants and Donations: Apply for state and federal grants and seek donations from local businesses and individuals.

Town Budget Allocation: Ensure a portion of the town budget is allocated for these accessibility improvements.

b. Project Management

Parking Lot Resurfacing: Hire a contractor or DPW to complete the parking lot resurfacing and signage installation by the end of 2025.

Pathway Construction: Plan the construction of accessible routes by 2026.

c. Monitoring and Evaluation

Regular Reviews: Conduct periodic reviews to ensure compliance with ADA standards and the successful completion of projects.

Community Feedback: Gather feedback from residents and visitors to continuously improve accessibility features.

Conclusion

The 2024 update to the Petersham Babbitt Wildlife Sanctuary Self-Evaluation and Transition Plan outlines crucial steps to improve accessibility. Addressing the parking lot and pathway issues will ensure the sanctuary is inclusive and enjoyable for all visitors.

Signed,

Robert Legare
Town of Petersham ADA Coordinator

Facility Inventory

LOCATION: Babbitt Wildlife Sanctuary

ACTIVITY	EQUIPMENT	NOTES
Picnic Facilities NONE	Tables & Benches	Located adjacent to accessible paths
		Access to Open Spaces
		Back and Arm Rests
		Adequate number
	Grills	Height of Cooking Surface
	Trash Cans	Located adjacent to accessible paths
		Located adjacent to accessible paths
Picnic Shelters	Located near accessible water fountains, trash can, restroom, parking, etc.	
Trails	CURRENT TRAILS ARE NOT SUITABLE FOR PEOPLE WITH DISABILITIES.	Surface material NATURAL VEGETATION
		Dimensions VARIABLE
		Rails NONE
		Signage (for visually impaired) NONE
Swimming Facilities NONE	Pools	Entrance
		Location from accessible parking
		Safety features i.e. warning for visually impaired
	Beaches	Location from accessible path into water
		Handrails
		Location from accessible parking
Play Areas (tot lots) NONE	All Play Equipment i.e. swings, slides	Same experience provided to all
	Access Routes	Located adjacent to accessible paths
		Enough space between equipment for wheelchair
Game Areas: *ballfield *basketball *tennis NONE	Access Routes	Located adjacent to accessible paths
		Berm cuts onto courts
	Equipment	Height
		Dimensions
		Spectator Seating
Boat Docks NONE	Access Routes	Located adjacent to accessible paths
		Handrails
Fishing Facilities NONE	Access Routes	Located adjacent to accessible paths
		Handrails
	Equipment	Arm Rests
		Bait Shelves
		Fish Cleaning Tables
Programming NONE	Are special programs at your facilities accessible?	Learn-to-Swim
		Guided Hikes
		Interpretive Programs
Services and Technical Assistance NONE	Information available in alternative formats i.e. for visually impaired	Process to request interpretive services (i.e. sign language interpreter) for meetings

LOCATION Babbitt Wildlife Sanctuary

PARKING			
<i>Total Spaces</i>	<i>Required Accessible Spaces</i>		
Up to 25	1 space		
26-50	2 spaces		
51-75	3 spaces		
76-100	4 spaces		
101-150	5 spaces		
151-200	6 spaces		
201-300	7 spaces		
301-400	8 spaces		
401-500	9 spaces		
<i>Specification for Accessible Spaces</i>	<i>Yes</i>	<i>No</i>	<i>Comments/Transition Notes</i>
Accessible space located closest to accessible entrance		X	UNDER DEVELOPMENT
Where spaces cannot be located within 200 ft of accessible entrance, drop-off area is provided within 100 ft.			
Minimum width of 13 ft includes 8 ft space plus 5 ft access aisle			
Van space – minimum of 1 van space for every accessible space, 8 ft wide plus 8 ft aisle. Alternative is to make all accessible spaces 11 ft wide with 5 ft aisle.			
Sign with international symbol of accessibility at each space or pair of spaces			
Sign minimum 5 ft, maximum 8 ft to top of sign			
Surface evenly paved or hard-packed (no cracks)			
Surface slope less than 1:20, 5%			
Curbcut to pathway from parking lot at each space or pair of spaces, if sidewalk (curb) is present			
Curbcut is a minimum width of 3 ft, excluding sloped sides, has sloped sides, all slopes not to exceed 1:12, and textured or painted yellow			
RAMPS			
<i>Specification</i>	<i>Yes</i>	<i>No</i>	<i>Comments/Transition Notes</i>
Slope Maximum 1:12		X	RAMPS NOT NEEDED
Minimum width 4 ft between handrails			
Handrails on both sides if ramp is longer than 6 ft			
Handrails at 34" and 19" from ramp surface			
Handrails extend 12" beyond top and bottom			
Handgrip oval or round			
Handgrip smooth surface			
Handgrip diameter between 1 1/4" and 2"			
Clearance of 1 1/2" between wall and wall rail			
Non-slip surface			
Level platforms (4ft x 4 ft) at every 30 ft, at top, at bottom, at change of direction			

LOCATION Babbitt Wildlife Sanctuary

SITE ACCESS, PATH OF TRAVEL, ENTRANCES			
<i>Specification</i>	<i>Yes</i>	<i>No</i>	<i>Comments/Transition Notes</i>
Site Access			
Accessible path of travel from passenger disembarking area and parking area to accessible entrance		X	
Disembarking area at accessible entrance		X	
Surface evenly paved or hard-packed		X	
No ponding of water		X	
Path of Travel			
Path does not require the use of stairs	X		
Path is stable, firm and slip resistant		X	
3 ft wide minimum		X	
Slope maximum 1:20 (5%) and maximum cross pitch is 2% (1:50).		X	
Continuous common surface, no changes in level greater than 1/2 inch		X	UNEVEN DIRT, GRASS, WOODED TRAILS
Any objects protruding onto the pathway must be detected by a person with a visual disability using a cane			N/A
Objects protruding more than 4" from the wall must be within 27" of the ground, or higher than 80"			
Curb on the pathway must have curb cuts at drives, parking and drop-offs			
Entrances			
Primary public entrances accessible to person using wheelchair, must be signed, gotten to independently, and <i>not</i> be the service entrance			
Level space extending 5 ft. from the door, interior and exterior of entrance doors			
Minimum 32" clear width opening (i.e. 36" door with standard hinge)			
At least 18" clear floor area on latch, pull side of door			
Door handle no higher than 48" and operable with a closed fist			
Vestibule is 4 ft plus the width of the door swinging into the space			
Entrance(s) on a level that makes elevators accessible			
Door mats less than 1/2" thick are securely fastened			
Door mats more than 1/2" thick are recessed			
Grates in path of travel have openings of 1/2" maximum			
Signs at non-accessible entrance(s) indicate direction to accessible entrance			
Emergency egress – alarms with flashing lights and audible signals, sufficiently lighted			

NOTES

Petersham Davenport Pond Property: 2024 Self-Evaluation and Transition Plan Update

1. Introduction

The Davenport Pond Property is a vital part of the Town of Petersham's commitment to preserving natural resources and providing recreational opportunities for all residents. This update to the 2018 Self-Evaluation and Transition Plan addresses key accessibility issues and outlines steps to enhance the property's inclusivity, safety, and enjoyment for all visitors.

2. Current Accessibility Challenges

Despite these achievements, several critical accessibility issues have been identified that need immediate attention:

a. Parking Lot Accessibility

Issues Identified:

The parking lot surface is not stable, firm, and slip-resistant.

There is a lack of accessible parking signage.

Non-compliance with 2010 ADA Standards for Accessible Design (ADAS) sections 502.6, 502.2, and 502.4.

Priority: 2

Rank: 2

Time Frame: Near future

Estimated Cost: \$2,500

b. Accessible Route

Issues Identified:

The site does not provide an accessible route due to grass and uneven wooded trails.

Non-compliance with 2010 ADA Standards for Accessible Design (ADAS) section 302.1.

Priority: 3

Rank: 2

Time Frame: Future project

Estimated Cost: \$25 per square foot

3. Goals for 2024-2028

To address these challenges, the following goals have been established:

a. Parking Lot Improvements

Objective: Ensure the parking lot is stable, firm, and slip-resistant, and includes proper accessible parking signage.

Action Plan:

Resurface Parking Lot: Apply a stable, firm, and slip-resistant material to the parking lot surface.

Install Signage: Add ADA-compliant accessible parking signs.

Compliance Check: Verify compliance with ADAS 2010 sections 502.6, 502.2, and 502.4.

Budget: \$2,500

Timeline: Near future (2024-2025)

b. Creation of Accessible Routes

Objective: Develop accessible routes from the parking area to key facilities within the property.

Action Plan:

Pathway Construction: Construct accessible pathways with stable, firm, and slip-resistant surfaces.

Compliance Check: Ensure pathways comply with ADAS 2010 section 302.1.

Budget: \$25 per square foot. Additional planning needed.

Timeline: Future project

4. Implementation Plan

To achieve these goals, the following steps will be taken:

a. Funding and Budgeting

Grants and Donations: Apply for state and federal grants and seek donations from local businesses and individuals.

Town Budget Allocation: Ensure a portion of the town budget is allocated for these accessibility improvements.

b. Project Management

Parking Lot Resurfacing: Hire a contractor or have DPW complete the parking lot resurfacing and signage installation by the end of 2025.

Pathway Construction: Plan and begin the construction of accessible routes by 2026, with completion targeted for 2028.

c. Monitoring and Evaluation

Regular Reviews: Conduct periodic reviews to ensure compliance with ADA standards and the successful completion of projects.

Community Feedback: Gather feedback from residents and visitors to continuously improve accessibility features.

Conclusion

The 2024 update to the Petersham Davenport Pond Property Self-Evaluation and Transition Plan outlines critical steps to improve accessibility. By addressing the parking lot and pathway issues, the Town of Petersham demonstrates its commitment to inclusivity and providing a welcoming environment for all visitors.

Signed,

Robert Legare

Town of Petersham ADA Coordinator

Facility Inventory

LOCATION: Davenport Pond Property

ACTIVITY	EQUIPMENT	NOTES
Picnic Facilities NONE	Tables & Benches	Located adjacent to accessible paths
		Access to Open Spaces
	Grills	Back and Arm Rests
		Adequate number
		Height of Cooking Surface
Trash Cans	Located adjacent to accessible paths	
	Located adjacent to accessible paths	
Picnic Shelters	Located adjacent to accessible paths	
	Located near accessible water fountains, trash can, restroom, parking, etc.	
Trails	CURRENT TRAILS ARE NOT SUITABLE FOR PEOPLE WITH DISABILITIES.	Surface material NATURAL VEGETATION
		Dimensions VARIABLE
		Rails NONE
		Signage (for visually impaired) NONE
Swimming Facilities NONE	Pools	Entrance
		Location from accessible parking
		Safety features i.e. warning for visually impaired
	Beaches	Location from accessible path into water
		Handrails
		Location from accessible parking
Play Areas (tot lots) NONE	All Play Equipment i.e. swings, slides	Same experience provided to all
		Access Routes
	Access Routes	Located adjacent to accessible paths
Game Areas: *ballfield *basketball *tennis NONE	Access Routes	Enough space between equipment for wheelchair
		Located adjacent to accessible paths
	Equipment	Berm cuts onto courts
		Height
		Dimensions
Boat Docks NONE	Access Routes	Spectator Seating
		Located adjacent to accessible paths
		Handrails
Fishing Facilities NONE	Access Routes	Located adjacent to accessible paths
		Handrails
	Equipment	Arm Rests
		Bait Shelves
		Handrails
Programming NONE	Are special programs at your facilities accessible?	Fish Cleaning Tables
		Learn-to-Swim
		Guided Hikes
Services and Technical Assistance NONE		Interpretive Programs
		Information available in alternative formats i.e. for visually impaired
		Process to request interpretive services (i.e. sign language interpreter) for meetings

LOCATION Davenport Pond Property

PARKING			
<i>Total Spaces</i>	<i>Required Accessible Spaces</i>		
Up to 25	1 space		
26-50	2 spaces		
51-75	3 spaces		
76-100	4 spaces		
101-150	5 spaces		
151-200	6 spaces		
201-300	7 spaces		
301-400	8 spaces		
401-500	9 spaces		
<i>Specification for Accessible Spaces</i>	Yes	No	<i>Comments/Transition Notes</i>
Accessible space located closest to accessible entrance		X	UNDER DEVELOPMENT
Where spaces cannot be located within 200 ft of accessible entrance, drop-off area is provided within 100 ft.			
Minimum width of 13 ft includes 8 ft space plus 5 ft access aisle			
Van space – minimum of 1 van space for every accessible space, 8 ft wide plus 8 ft aisle. Alternative is to make all accessible spaces 11 ft wide with 5 ft aisle.			
Sign with international symbol of accessibility at each space or pair of spaces			
Sign minimum 5 ft, maximum 8 ft to top of sign			
Surface evenly paved or hard-packed (no cracks)			
Surface slope less than 1:20, 5%			
Curbcut to pathway from parking lot at each space or pair of spaces, if sidewalk (curb) is present			
Curbcut is a minimum width of 3 ft, excluding sloped sides, has sloped sides, all slopes not to exceed 1:12, and textured or painted yellow			
RAMPS			
<i>Specification</i>	Yes	No	<i>Comments/Transition Notes</i>
Slope Maximum 1:12		X	RAMPS NOT NEEDED
Minimum width 4 ft between handrails			
Handrails on both sides if ramp is longer than 6 ft			
Handrails at 34" and 19" from ramp surface			
Handrails extend 12" beyond top and bottom			
Handgrip oval or round			
Handgrip smooth surface			
Handgrip diameter between 1 ¼" and 2"			
Clearance of 1 ½" between wall and wall rail			
Non-slip surface			
Level platforms (4ft x 4 ft) at every 30 ft, at top, at bottom, at change of direction			

LOCATION Davenport Pond Property

SITE ACCESS, PATH OF TRAVEL, ENTRANCES			
<i>Specification</i>	<i>Yes</i>	<i>No</i>	<i>Comments/Transition Notes</i>
Site Access			
Accessible path of travel from passenger disembarking area and parking area to accessible entrance		X	
Disembarking area at accessible entrance		X	
Surface evenly paved or hard-packed		X	
No ponding of water		X	
Path of Travel			
Path does not require the use of stairs	X		
Path is stable, firm and slip resistant		X	
3 ft wide minimum		X	
Slope maximum 1:20 (5%) and maximum cross pitch is 2% (1:50).		X	
Continuous common surface, no changes in level greater than 1/2 inch		X	UNEVEN DIRT, GRASS, WOODED TRAILS
Any objects protruding onto the pathway must be detected by a person with a visual disability using a cane			N/A
Objects protruding more than 4" from the wall must be within 27" of the ground, or higher than 80"			
Curb on the pathway must have curb cuts at drives, parking and drop-offs			
Entrances			
Primary public entrances accessible to person using wheelchair, must be signed, gotten to independently, and <i>not</i> be the service entrance			
Level space extending 5 ft. from the door, interior and exterior of entrance doors			
Minimum 32" clear width opening (i.e. 36" door with standard hinge)			
At least 18" clear floor area on latch, pull side of door			
Door handle no higher than 48" and operable with a closed fist			
Vestibule is 4 ft plus the width of the door swinging into the space			
Entrance(s) on a level that makes elevators accessible			
Door mats less than 1/2" thick are securely fastened			
Door mats more than 1/2" thick are recessed			
Grates in path of travel have openings of 1/2" maximum			
Signs at non-accessible entrance(s) indicate direction to accessible entrance			
Emergency egress – alarms with flashing lights and audible signals, sufficiently lighted			

NOTES



Town of Petersham Grievance Procedure

GRIEVANCE PROCEDURE UNDER THE AMERICANS WITH DISABILITIES ACT

This Grievance Procedure is established to meet the requirements of the Americans with Disabilities Act of 1990 ("ADA"). This may be used by anyone who wishes to file a complaint alleging discrimination on the basis of disability in the provision of services, activities, programs, or benefits by the Town of Petersham. The Town of Petersham's Personnel Policy governs employment-related complaints of disability discrimination. The complaint should be in writing and contain information about the alleged discrimination such as name, address, phone number of complainant and location, date, and description of the problem. Alternative means of filing complaints, such as personal interviews or a tape recording of the complaint, will be made available for persons with disabilities upon request. The complaint should be submitted by the grievant and/or his/her designee as soon as possible but no later than 60 calendar days after the alleged violation to: Town of Petersham ADA Coordinator c/o Selectboard Office at Town Offices, 3 South Main Street, PO Box 486, Petersham, MA 01366. Within 15 calendar days after receipt of the complaint, Town of Petersham ADA Coordinator or designee will meet with the complainant to discuss the complaint and the possible resolutions. Within 15 calendar days of the meeting, Town of Petersham ADA Coordinator or designee will respond in writing, and where appropriate, in a format accessible to the complainant, for example in large print or audio tape. The response will explain the position of the Town of Petersham and offer options for substantive resolution of the complaint. If the response by Town of Petersham ADA Coordinator or designee does not satisfactorily resolve the issue, the complainant and/or his/her designee may appeal the decision within 15 calendar days after receipt of the response to the Town of Petersham Selectboard or their designee. Within 15 calendar days after receipt of the appeal, the Petersham Selectboard or designee will meet with the complainant to discuss the complaint and possible resolutions. Within 15 calendar days after the meeting, the Town of Petersham Selectboard will respond in writing, and, where appropriate, in a format accessible to the complainant, with a final resolution of the complaint. All written complaints received by the Town of Petersham ADA Coordinator, appeals to the Town of Petersham Selectboard, and responses from these two offices will be retained by the Town of Petersham Selectboard for at least three years.

Revised / Adopted by Petersham Selectboard- Date: 8/8/2017



NOTICE UNDER THE AMERICANS WITH DISABILITIES ACT

In accordance with the requirements of title II of the Americans with Disabilities Act of 1990 ("ADA"), the **Town of Petersham** will not discriminate against qualified individuals with disabilities on the basis of disability in its services, programs, or activities.

Employment: The **Town of Petersham** does not discriminate on the basis of disability in its hiring or employment practices and complies with all regulations promulgated by the U.S. Equal Employment Opportunity Commission under title I of the ADA.

Effective Communication: The **Town of Petersham** will generally, upon request, provide appropriate aids and services leading to effective communication for qualified persons with disabilities so they can participate equally in the **Town of Petersham** programs, services, and activities, including qualified sign language interpreters, documents in Braille, and other ways of making information and communications accessible to people who have speech, hearing, or vision impairments.

Modifications to Policies and Procedures: The **Town of Petersham** will make all reasonable modifications to policies and programs to ensure that people with disabilities have an equal opportunity to enjoy all of its programs, services, and activities. For example, individuals with service animals are welcomed in the **Town of Petersham** offices, even where pets are generally prohibited.

Anyone who requires an auxiliary aid or service for effective communication, or a modification of policies or procedures to participate in a program, service, or activity of the **Town of Petersham** should contact the office of the Petersham ADA Coordinator at Selectboard Offices Town Offices 3 South Main Street PO Box 486 Petersham, MA 01366 phone 978-724-3353 as soon as possible but no later than 48 hours before the scheduled event.

The ADA does not require the **Town of Petersham** to take any action that would fundamentally alter the nature of its programs or services, or impose an undue financial or administrative burden.

Complaints that a program, service, or activity of the **Town of Petersham** is not accessible to persons with disabilities should be directed to Petersham ADA Coordinator at Selectboard Offices Town Offices 3 South Main Street PO Box 486 Petersham, MA 01366 Phone 978-724-3353.

Town of Petersham will not place a surcharge on a particular individual with a disability or any group of individuals with disabilities to cover the cost of providing auxiliary aids/services or reasonable modifications of policy, such as retrieving items from locations that are open to the public but are not accessible to persons who use wheelchairs.

Revised & Adopted Petersham Selectboard 8/8/2017

Petersham, Massachusetts OPEN SPACE AND RECREATION PLAN 2024



View of Quabbin Reservoir from Soapstone Hill. Courtesy of Harvard Forest.

The residents of Petersham, the Open Space and Recreation Committee, and the OSRP Core Team thank the Conway School graduate students Gina Quattrochi, Leah Stanton, and Eric Rose for their tremendous work in developing this plan. It was a pleasure to work with them.

the Conway School
Graduate Program in Sustainable Landscape Planning + Design

The Conway School is the only institution of its kind in North America. Its focus is sustainable landscape planning and design, and its graduates are awarded a Master of Science in Ecological Design degree. Each year, students from diverse backgrounds are immersed in a range of real-world design and planning projects, ranging from sites to cities to regions.