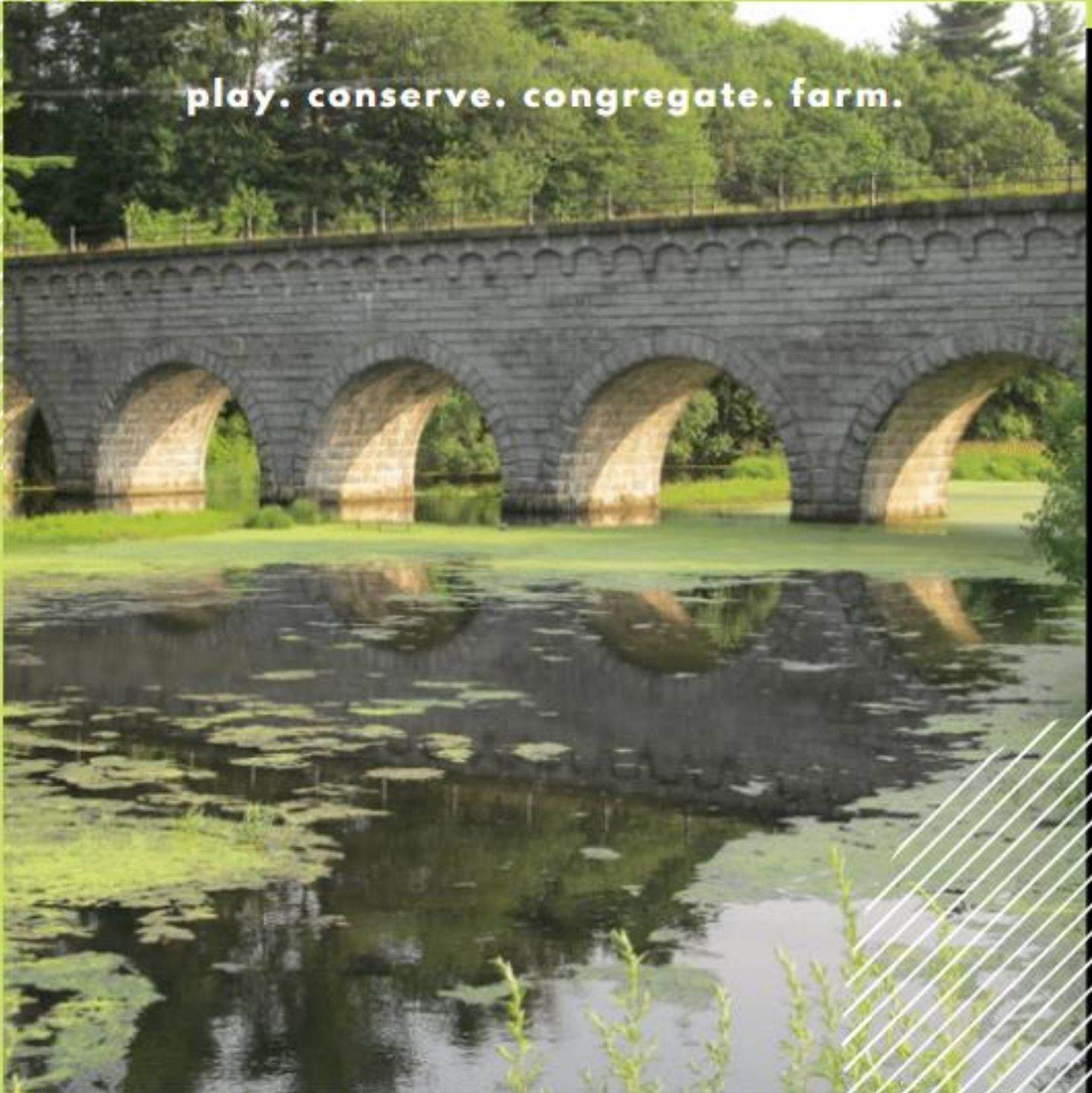


NORTHBOROUGH

OPEN SPACE & RECREATION PLAN

play. conserve. congregate. farm.



2020 OPEN SPACE & RECREATION PLAN



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

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GOVERNOR

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October 4, 2022

Danielle Marini, Environmental Planner
Central Massachusetts Regional Planning Commission
One Mercantile Street, Suite 520
Worcester, MA 01608

Re: Open Space and Recreation Plan

Dear Ms. Marini:

Thank you for submitting the Open Space and Recreation Plan for Northborough 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 January 2028. Please contact me melissa.cryan@mass.gov if you have any questions or concerns.

Sincerely,

Melissa Cryan

Melissa Cryan
Grant Programs Supervisor

This plan was prepared by the Town of Northborough Open Space Committee with assistance from:

Laurie Connors, Planning Director
Vincent Vignaly, Conservation Agent
Mia McDonald, Former Conservation Agent
Kathryn A. Joubert, Former Town Planner

The Northborough Open Space Committee Members are:

John Campbell, Chair
Timothy Kaelin, Selectboard Representative
Anthony W. Ziton, Planning Board Representative
Gregory Young, Conservation Commission Representative
Mark Awdycki, Recreation Commission Representative
Brian Belfer
Dan Clark
Ashley Davies
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The following individuals and groups also provided assistance with the development of this plan:

Sarah Adams, CMRPC
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Allison Lane, Recreation Director
Conservation Commission
Planning Board
Recreation Committee
Board of Selectmen

CONTENTS



► **TOWN OF NORTHBOROUGH OPEN SPACE AND RECREATION PLAN – 2020**

Contents..... ii

SECTION 1 - PLAN SUMMARY 1

SECTION 2 – INTRODUCTION 4

 A - Statement of Purpose 5

 B - Planning Process and Public Participation 5

SECTION 3 - COMMUNITY SETTING 8

 A - Regional Context..... 9

 B - History of Community 12

 C - Population Characteristics..... 13

 D - Growth and Development Patterns 17

 E. Community Planning 25

SECTION 4 - ENVIRONMENTAL INVENTORY AND ANALYSIS 27

 A - Geology, Soils, and Topography 28

 B - Landscape Character..... 30

 C - Water Resources 30

 D - Vegetation..... 35

 E - Fisheries and Wildlife 36

 F - Unique Environments and Scenic Resources..... 41

 G - Environmental Challenges 46

SECTION 5 – LAND INVENTORY 50

 A. Overview 51

 B - Private Parcels..... 55

 C - Public and Non-Profit Parcels 60

SECTION 6 - COMMUNITY VISION 67

 A - Description of Process..... 68

 B - Statement of Open Space and Recreation Goals 69

SECTION 7 - ANALYSIS OF NEEDS 70

 A. Summary of Resource Protection Needs..... 71

 B. Summary of Community’s Needs 71

 C. Management Needs, Potential Change of Use..... 77

SECTION 8 - GOALS AND OBJECTIVES..... 79

 A. 2020 OSRP Goals and Objectives 80

 B. Financial Considerations..... 81

SECTION 9 - SEVEN YEAR ACTION PLAN 83

 A. Seven Year Action Plan Overview..... 84

SECTION 10 - PUBLIC COMMENTS..... 90

SECTION 11 – REFERENCES..... 95

► **TOWN OF NORTHBOROUGH OPEN SPACE AND RECREATION PLAN – 2020**

APPENDIX A: OPEN SPACE AND RECREATION PLAN SURVEY 97

APPENDIX B: Public Outreach 98

APPENDIX C: PUBLIC FORUM AGENDA 99

APPENDIX D: PUBLIC FORUM PRESENTATION..... 100

APPENDIX E: OPEN SPACE AND RECREATION SURVEY RESULTS..... 101

APPENDIX F: ADA SELF-EVALUATION REPORT 102

SECTION 1

PLAN SUMMARY



► TOWN OF NORTHBOROUGH OPEN SPACE AND RECREATION PLAN – 2020

Assessor, Town Planner, and others, an inventory of both public and private lands of conservation and recreation interest was compiled. Finally, a new seven-year action plan with detailed action steps, time frames, and responsible parties is laid out so Northborough can move toward its vision.

summary of the plan is presented in Section 9 as a seven-year action plan.

During the development of the OSRP, the community revisited and refined its previously stated vision and developed goals, objectives, and action steps necessary to accomplish that vision. The Town has been very active in the implementation of the recommendations found in the 2010 OSRP. The 2020 OSRP highlights accomplishments and identifies areas where additional work may be necessary, setting forth an action plan that will help to achieve the goals of maintaining the quintessential New England character of the town, providing recreational resources for a range of ages and abilities, and acquiring critical open space lands that will safeguard vital groundwater resources, habitat areas, and the quality of life in Northborough.

The 2020 OSRP follows the format prescribed by the State Executive Office of Energy and Environmental Affairs. Once the plan is accepted by the Executive Office of Energy and Environmental Affairs, the Town may apply for State grants through the Local Acquisitions for Natural Diversity (LAND) and Parkland Acquisitions and Renovations for Communities (PARC) programs, which provide reimbursements for the purchase and/or renovation of open spaces and recreation facilities.

In an attempt to balance the many issues concerning development, land preservation, and community needs, this plan provides an assessment of existing conditions and trends in Northborough (Sections 3-5), identifies the community's current open space and recreation goals (Section 6), conservation and recreation needs (Section 7), and objectives (Section 8). A

The image features a vertical photograph of a forest with tall, thin trees and sunlight filtering through the canopy, creating a warm, golden glow. The right side of the image is a solid light green background with a pattern of thin, white, parallel diagonal lines. A white rectangular box with a black border is positioned in the upper left, containing the text 'SECTION 2' and 'INTRODUCTION' in bold, black, sans-serif font.

SECTION 2

INTRODUCTION

A - Statement of Purpose

Herein, "open space" refers to conservation land, forested land, recreation land, agricultural land, and amenities such as green buffers along roadways or any open area that is owned by an agency or organization dedicated to conservation. The term may also be used to describe undeveloped land with potential conservation or recreation interest – such as vacant lots, and brownfields – that can be reclaimed for public use.

Regionally, open space plans are now more vital than ever. In 2017, Harvard Forest, a subsidiary of the Faculty of Arts and Sciences of Harvard University, published a report that found that New England has been losing forestland to development at a rate of 65 acres per day (Harvard Forest, 2017). Leveraging satellite imagery to determine how much land was being lost, the study highlighted that despite more than half of Massachusetts municipalities having adopted the Community Preservation Act (aimed at saving open spaces, preserving historic sites, and developing affordable housing), the State has been losing forestland to development faster than any other New England state, at a rate of 7,000 acres per year.

Without thoughtful planning and active stewardship, these types of changes in land use

patterns can dramatically alter a community in a short time period. Open space plans are fundamental tools toward protecting the "green infrastructure" (water supply, land, working farms and forests, viable wildlife habitats, parks, recreation areas, trails, and greenways) of a community. Planning for and protecting these resources is every bit as important to the economic future of a community as planning for schools, roads, water, and wastewater infrastructure.

Moreover, lands and facilities that present opportunities for recreation provide myriad benefits to their community and to those who use them. These can include increased property values and tax revenue, clean water and clean air, and even cost savings via avoided strains on community services (schools, fire, police, infrastructure). Direct benefits to recreation users include improved physical health (reduced obesity rates, increased vitamin D levels and improved cardiorespiratory fitness); enriched mental health (stress reduction, improved coping abilities, lessened social isolation, and better cognitive function); and enhanced community connections (heightened community pride, an uptick in civic engagement, and access to social interaction).

B - Planning Process and Public Participation

As with any planning exercise, the development of this OSRP has provided the opportunity to assess where Northborough is, where the Town would like to go, and how to get there. The OSRP will help the Town to confront and manage aspects of growth and development in ways that preserve, protect, and enhance the environment. The committee has held a very thoughtful planning process with significant and substantial community involvement, and plan development has exposed potential threats and highlighted

opportunities. The final product lays out goals which advocate for protecting lands that support wildlife, recreation, and ecosystem services, and outline patterns of land development to support plan goals.

As previously mentioned, an up to date OSRP is required for communities to be eligible for grant programs that help fund the purchase of open space or improvement of land for recreation purposes. But more importantly, the detailed

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planning process mandated by DCS provides the Town with a thorough evaluation of recreation and conservation opportunities, and helps to uncover opportunities to improve services for all residents.

Northborough's 2010 Open Space and Recreation Plan expired in 2017. In 2019, the Northborough Open Space Committee (OSC) engaged the services of the Central Massachusetts Regional Planning Commission (CMRPC) to assist with a thorough update of its OSRP. Since the 2010 plan was approved many changes have taken place within the Town and therefore revisions were necessary to ensure that the plan is in keeping with the desires of the residents and with the State requirements.

The 2010 OSRP served as the base for this updated Plan. While some components of the Plan, such as area geology and history, did not change substantially and required only minor updates, other components such as the open space inventory, needs analysis, goals, and objectives were subject to significant revisions. The process involved gathering information on changes to the Town's population and growth patterns and input from the residents and public meetings with the OSC. The Town's staff provided technical input and details. CMRPC provided guidance and research assistance to staff and committee members, and helped compile the overall document.

The OSC was charged with the responsibility of producing the OSRP Plan Update. The OSC consists of a member of each of the following elected and appointed Town boards/committees: Conservation Commission (Gregory Young), Recreation Commission (Mark Awdycki), Planning Board (Anthony W. Ziton), Selectboard (Timothy Kaelin) plus four at large residents (John Campbell, Chair; Brian Belfer; Dan Clark; Ashley Davies; Leslie Harrison; and Paul Tagliaferri).

The OSC is responsible for the identification and preparation of proposals for Town Meeting of

properties to be acquired for open space and/or recreational use. The OSC also considers alternative methods for open space preservation, including but not limited to grants, bargain sales, donations, and conservation restrictions. Committee members provided important background information, reviewed, and commented on each of the Plan components in draft form, facilitated the implementation of an on-line and paper survey, and solicited public comment and input. The committee worked closely with the Conservation Agent and CMRPC staff to develop goals, objectives, and the 7-year action plan. At all times, an informal consensus approach was used with Committee members until an agreement was obtained.

Several outreach strategies, including a public survey, a public forum, and municipal board and committee interviews were utilized to determine what the citizens of Northborough value as well as issues that need to be addressed to improve their use and enjoyment of open space and recreational resources in the community. Although Northborough is not home to any Environmental Justice communities, as defined by the State, an effort was made to reach out to a diverse audience when advertising the public survey and public visioning sessions. The Massachusetts Executive Office of Energy and Environmental Affairs defines an Environmental Justice community as a community in which any of the following are true: median household income is equal to or less than 65 percent of the statewide median (\$74,167 in 2017, per the ACS 1-year survey); 25% or more of the residents identify as minority; or 25% or more of households have no one over the age of 14 who speaks English proficiently.

PUBLIC SURVEY

CMRPC, the Town's OSC, and Planning Department developed a survey to gather resident input regarding open space and recreation in Northborough. The survey was based on the model set up in the DCS Open

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Space Planners Workbook. The survey was developed and summarized using the internet application SurveyMonkey ©. The availability of the survey and hyperlinks were placed on the Town website, sent via email to Town boards and commissions and to other interested parties. Flyers advertising the survey were hung on community bulletin boards, at Town Hall, at the Senior Center, and at Boroughs Family Branch YMCA. The survey was also made available in hard copy at the Northborough Planning Office and the Senior Center. The online survey was available from January 21, 2020 to March 20, 2020. 15 hard copies were submitted. 495 surveys were received. A summary of the survey results is attached as Appendix E.

In addition, the community was invited to review drafts of the plan which was published on the Town's website. The Open Space Committee, the Conservation Commission, the Recreation Commission, the Planning Board, the Board of Selectmen, and Central Massachusetts Regional Planning Commission each reviewed and provided letters of support (attached in Section 10).

PUBLIC FORUM

The Committee initially planned to hold a Public Forum in March 2020 to discuss the draft plan, the draft survey results, draft goals, objectives, and action plan. However, due to the Covid-19 pandemic, meetings larger than 10 and later 25 individuals were prohibited by Executive Order. When it became clear in July that larger in-person gatherings were unlikely to be feasible in the near future, the Town made the decision to hold a virtual public forum using the Zoom platform. The virtual public forum was held on September 16, 2020.

Municipal staff, the Open Space Committee, CMRPC, and eleven community members participated “live” with many more viewing on cable access or viewing the recording after September 16. The public forum presentation

was available ahead of the Zoom event and has been viewed more than thirty times.

More information about the forum can be found in Section 6 of this report.

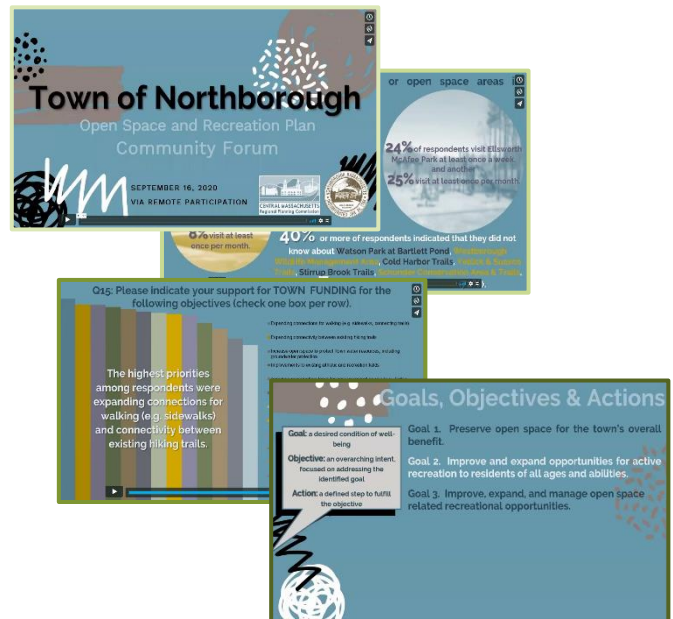


Figure 1. At the forum, CMRPC provided an overview of the OSRP process, a description of the draft goals, a summary of the survey responses, the phases of the that plan have been completed thus far, and what still remains to be completed.

SECTION 3

COMMUNITY SETTING



A - Regional Context

Northborough is a rural suburban community located in central Massachusetts. The Town is bordered by Berlin on the north, Westborough on the south, Marlborough on the east, Southborough on the southeast, and Boylston and Shrewsbury on the west. Marlborough and Shrewsbury provide a more urbanized atmosphere while Berlin and Boylston to the north reflect the rural character of this portion of Town. Northborough is 10 miles northeast of Worcester, 30 miles west of Boston, and 190 miles from New York City. A map showing Northborough's Regional Context is provided on the following page. According to the United States Census Bureau, the town has a total area of 18.76 square miles, of which, 18.53 square miles of it is land and 0.23 square miles of it is water.

Zoning regulations compatible with the surrounding communities provide similar uses along the common borders. For example, a portion of the eastern end of town is zoned industrial with the same zoning located across the border in Marlborough. Westborough has a business zone along Northborough's southern border that is compatible with Northborough's abutting zoning. Berlin and Boylston's zoning adjacent to Northborough is also residential and is mixed with conservation land along the northern border. In Shrewsbury sections of residential land abut Northborough residential land.

Northborough is located in the Worcester area. Principal highways are:

- ④ US Route 20;
- ④ US Interstate 290, which connects Interstate 495 with Worcester;
- ④ State Route 9, the Worcester Turnpike;
- ④ State Route 135;
- ④ US Interstate 495, which borders to the east;
- ④ US Interstate 90, the Massachusetts Turnpike; and

- ④ US Interstate 190, which links to the Fitchburg-Leominster area.

US Interstate 90 and 495 form a major interchange in the neighboring town of Westborough.

The region is well connected by rail and highway to the ports, airports, and intermodal facilities of Boston and Providence. CSX provides freight service to Northborough. Northborough is a member of the Worcester Regional Transit Authority (WRTA) but does not receive fixed route services. Commuters can board Massachusetts Bay Transit Authority (MBTA) trains on the Framingham-Worcester Line at Westborough and Southborough. Amtrak trains on the Lakeshore Route connecting Boston to New York and Chicago can board at the Framingham and Worcester Stations. Though most air travelers utilize Boston's Logan Airport, TF Green Airport in Providence and Manchester New Hampshire's Airport, some use the Worcester Municipal Airport, located on Route 122. Several smaller airfields are also located within a 20-mile radius.

Several of Northborough's open spaces cross the Town border into adjacent towns. Mt. Pisgah is shared with the Town of Berlin. Some of the New England Forestry Foundation properties lie in both Northborough and Shrewsbury. Large amounts of land part of the Westborough State Hospital are located in the Towns of Northborough and Westborough.

While Northborough was once primarily a farming community, it has transitioned to a more white-collar community, with its residents holding jobs in retail, service, and tech sectors. Northborough falls squarely in the area sometimes referred to as the Arc of Innovation, or the Metrowest 495 Corridor.

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Despite the shift, several farms (such as Tougas, Berberian, and Davidian for fruits and vegetables, as well as the Ellsworth Christmas Tree Farm) still operate in the community.

Northborough has many public and private schools. It is home to four public elementary schools serving grades pre-K – 5: Lincoln Street School, Marguerite E. Peaslee School, Fannie E. Proctor School, and Marion E. Zeh School. Private schools include the Cornerstone Academy, the Fitzgerald Institute, the Goddard School, and St. Bernadette's. The middle school for students in grades 6 to 8 is the Robert E. Melican Middle School. The public high school serving Northborough is Algonquin Regional High School, shared with Southborough. Assabet Valley Regional Technical Vocational High School is a choice school for Northborough students, though the majority of students attend Algonquin. Other Northborough students attend private high schools in Southborough, Shrewsbury or Worcester. (Massachusetts Department of Housing and Community Development)

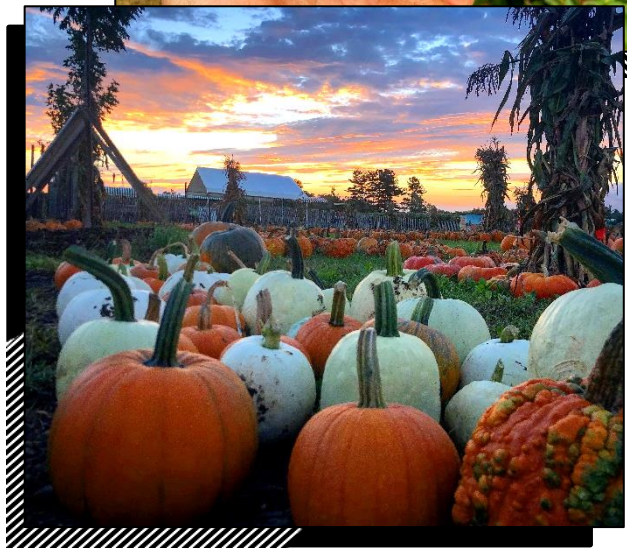
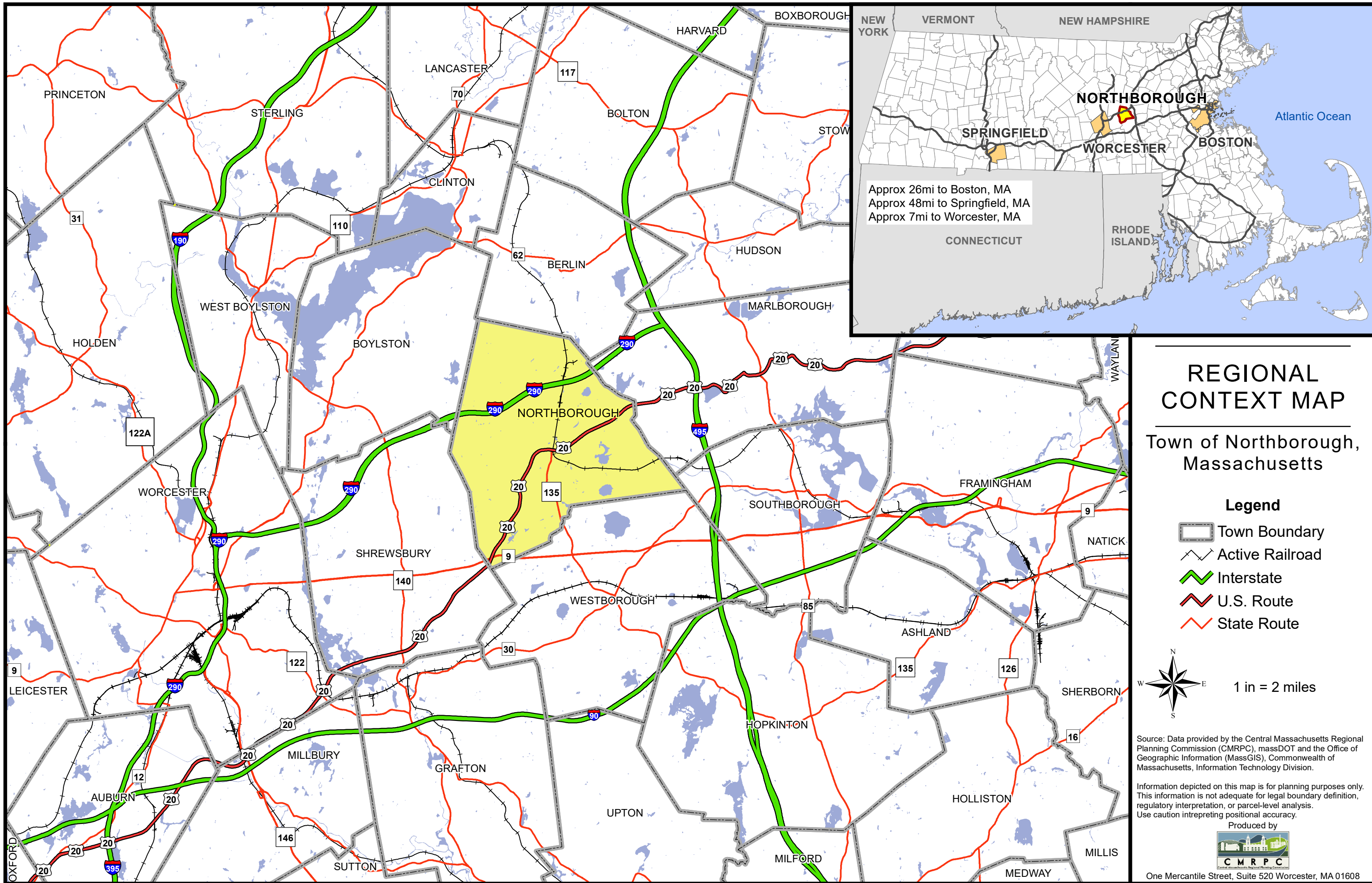
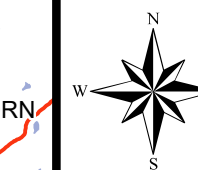


Figure 2. Readers of USA Today ranked Tougas Family Farm of Northborough sixth best orchard for apple picking in the country in 2020. Photo Source: Tougas Family Farm.



Approx 26mi to Boston, MA
 Approx 48mi to Springfield, MA
 Approx 7mi to Worcester, MA



Source: Data provided by the Central Massachusetts Regional Planning Commission (CMRPC), massDOT and the Office of Geographic Information (MassGIS), Commonwealth of Massachusetts, Information Technology Division.

Information depicted on this map is for planning purposes only. This information is not adequate for legal boundary definition, regulatory interpretation, or parcel-level analysis. Use caution interpreting positional accuracy.

Produced by

 One Mercantile Street, Suite 520 Worcester, MA 01608

B - History of Community

The Town of Northborough was settled in 1660 by farmers and herdsman from Sudbury and Marlborough. The inhabited area stretched from Ball Hill in the north to the Garrison House on what is today the Marlborough/Northborough border. The earliest settlers were subsistence farmers who also raised feed for Marlborough cattle. The Assabet River provided an adequate source of water for running small gristmills and the hillsides served as an excellent location for orchards. The Town of Northborough, originally part of the Town of Marlborough, then Westborough, was incorporated in 1766 and became a full-fledged town in 1775. Northborough was settled as the “North borough” of Marlborough in the early 1650s. In 1717, it was set off from Marlborough, becoming the north part of Westborough. In January, 1766, Northborough was incorporated as a town of its own.

In 1746, the first Meeting House was established under the name of The Church of Christ and became the center of all Town activities, both religious and civic. Northborough had three Town Ministers, the first being Rev. John Martyn, who served from 1746-1767. His successor, the patriot and Harvard graduate, Peter Whitney, served the town until 1816. Rev. Whitney was followed by the Rev. Joseph Allen who served until 1873. Both Whitney and Allen were well-respected historians and authors of their day.

After 1800, some “cottage industries” developed into factory-based production, most notably the making of shoes and combs, and along the Assabet River there were a few small-scale woolen mills. The early grist and sawmills of Northborough became iron and brick works, cotton and woolen mills, and were ultimately succeeded by the present-day electronics industry.

The center of Northborough developed as an institutional focus for the Town, along with a small commercial district, a settlement pattern further encouraged by the completion of a railroad to Northborough in 1856. During the second half of the 19th century and the early 20th century, Northborough experienced both a population increase and an increase in ethnic and religious diversity, and more densely built residential neighborhoods clustered around the Town center. As the woolen mills prospered, the stock of company-built housing increased, creating small mill villages at Woodside and Chapinville. In this period, Northborough developed some of the institutions characteristic of larger Towns and small cities: consolidated schools, a high school, a public library, and fire and police services. After World War II, suburban-type residential development began to alter the Town’s predominantly rural makeup.

The Town of Northborough was incorporated in 1766 and gained the right of representation at the Great and General Court of Boston in 1775. Along the old Boston Post Road, commemorative plaques outline the historical events that shaped the Town. The early churches of Massachusetts, called “meeting houses,” were the center of all Town activity. One such meeting house, the “old” Town Hall, earned placement on the National Park Service Department list of Historical Architectural Monuments, and is said to have the longest roof span of any known French Mansard roof style building.

By 1885 Northborough, was the terminus of the Agricultural Branch Railroad, and boasted 132 farms, 2 woolen mills, 5 home goods manufacturers, a piano key factory, a rubber factory, many boot and shoe factories and a box factory. Between 1790 and 1900, the population increased from 619 to 2,164.

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In 1950 Northborough could be described as a quiet town of market farms, small businesses, professionals, and retirees. There were two schools, one elementary and one high school. Industry was almost non-existent. Businesses consisted of a fabric mill, a woodworker’s shop, a cereal company, one commercial dairy, a carnation grower, three egg farms, a candle factory, one bank, small grocery stores and a pharmacy.

Today Northborough is an attractive residential town. Many of the rural aspects of the town are

still preserved by the open green spaces of conservation land. Stonewalls, orchards, and farms pay homage to the rich agricultural heritage of the Town. Today, in addition to providing the setting for several working farms, Northborough is also host to a burgeoning research and development-oriented industrial park; however, the Town serves primarily as a residential area, a rural home to Boston and Worcester commuters. With careful planning, Northborough will be able to balance the best of the past with the needs of the future.

C - Population Characteristics

TOTAL POPULATION

Table 3.1 Historical Population

Year	Population	Change	% Change
1950	3,122		
1960	6,687	3,565	114.20%
1970	9,218	2,531	37.80%
1980	10,568	1,350	14.60%
1990	11,929	1,361	12.90%
2000	14,013	2,084	17.5%
2010	14,155	142	1.0%

(US Census Bureau)

This plan relies heavily on 2010 census data and may not reflect current conditions precisely. Northborough’s population has been growing steadily over the last five decades. The largest numeric and percentage increase occurred between 1950 and 1960. Decreased rates of growth in more recent years may indicate the slowing of suburbanization and sprawl and demonstrate the limits of growth.

POPULATION AGE

Additional data from the 2010 U.S. Census illustrates the composition of the Town, by age, for the same time period. Northborough’s Population by Age Category in 1970, 1980, 1990, 2000, and 2010, exhibits a general shift toward an older population, which is a demographic trend across the region. In 2010, 13% of the population was 65 or older. This is comparable to neighboring towns which range from approximately 12.5% - 18.2%. However, 21% of the Northborough population is under 18 years old, which is the lowest when compared with neighboring towns.

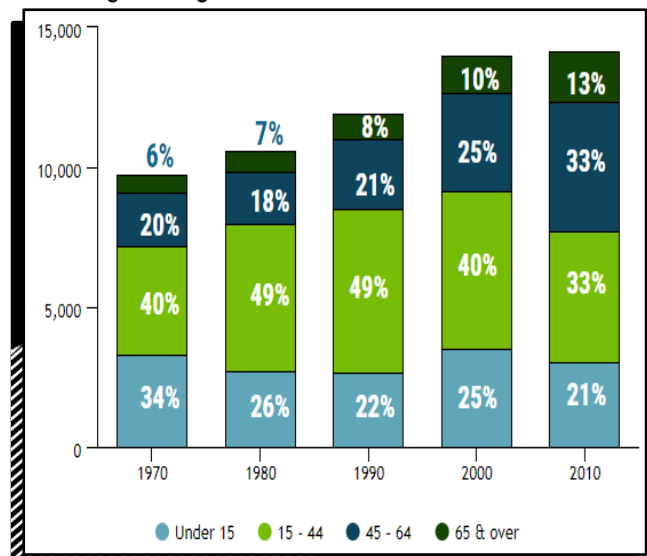


Figure 3. Northborough Age Distribution

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A more detailed analysis shown in Figure 3 (Northborough Age Distribution) reflects the changes in the Town age distribution. While the age group from 15 to 44 remains the largest population of the Town, a steady increase in the age 45 to 64 and 65 and over categories is evident.

Figure 3 indicates that the largest population percentage drops are in the cohort most largely comprised of children and millennials – 0 to 44 year olds.

In 1970, these two cohorts accounted for nearly $\frac{3}{4}$ of Northborough’s population, but at the time of the 2010 Census, that figure had fallen to just 54%. From 1970 to 2010, there was a noteworthy increase in the over 65 population in Town from 6% to 13% (more than doubling). Further, projections from CMRPC predict that by 2040, Northborough residents aged 65 and older could account for 34% of the total population, while residents under the age of 19 would account for only 17.5%.

By 2050, the global population of people age 60 or older is projected to nearly double to 2.1 billion.¹ By 2050, 1 in 5 Americans will be age 60-plus. By 2060, 25 percent of the entire U.S. population will be age 60 or older.

Since recreational needs vary according to age, this information provides an invaluable tool for assessing current open space and recreational facilities as well as planning future open space and recreational facilities. Most notably, concern for the health and fitness of the aging population has become and will remain a strong trend in the general culture.

Also of note, older adults represent an increasingly large share of the U.S population, but their use of parks is observed as disproportionately low. A 2014 study of 174 neighborhood parks in 25 major U.S. cities found that children — representing 20% of the total U.S. population — made up 38% of park users.

Although adults age 60 and older accounted for 20% of the general population, they represented only 4% of total park users (Cohen, 2016). Moving forward, it will be vital that Northborough consider their growing senior cohort when planning for open space and recreation in Town.

POPULATION DENSITY

The Town of Northborough contains 18.72 square miles. The 1970 population of 9,218 people resulted in a density of 492.4 persons per square mile. By 2000, the Town’s population had grown to 14,013 people increasing the Town-wide density to 748.55 persons per square mile, or 52% over thirty years. From 2000 to 2010 the Town-wide density increased by only 1% to 756.14 persons per square mile.

SPECIAL GROUPS

Table 3.2 Persons by Race (US Census, 2010)

Year	Population	White	Black	Indian, Eskimo, Aleut	Asian, Pacific Island	Other
1970	9,218	9,179	7	0	0	32
1980	10,568	10,353	41	14	127	33
1990	11,929	11,319	89	20	467	34
2000	14,013	13,033	91	11	718	160
2010	14,155	12,405	142	16	1,158	434

The U.S. Census also provides information by race, which can be used to identify groups, which may, by tradition, have different recreation needs. Table 3.2 shows that the majority of the Town’s population is white, however an overall increase in the non-white population has occurred over time. The 2010 census indicated that the non-white population of the town was approximately 12.4%. While this percentage is low, consideration of this population should be made in the planning process. According to the MassGIS Environmental Justice Population Map

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of the Central Region, there are no significant Environmental Justice populations located within Northborough.

Persons with disabilities, though not documented in the census data, must also be considered in the

acquisition, development or improvement of open space and recreational areas. Included in this category are those with physical disabilities that require the use of a wheelchair, walker or cane, and individuals with visual or hearing impairments, or mental disabilities.

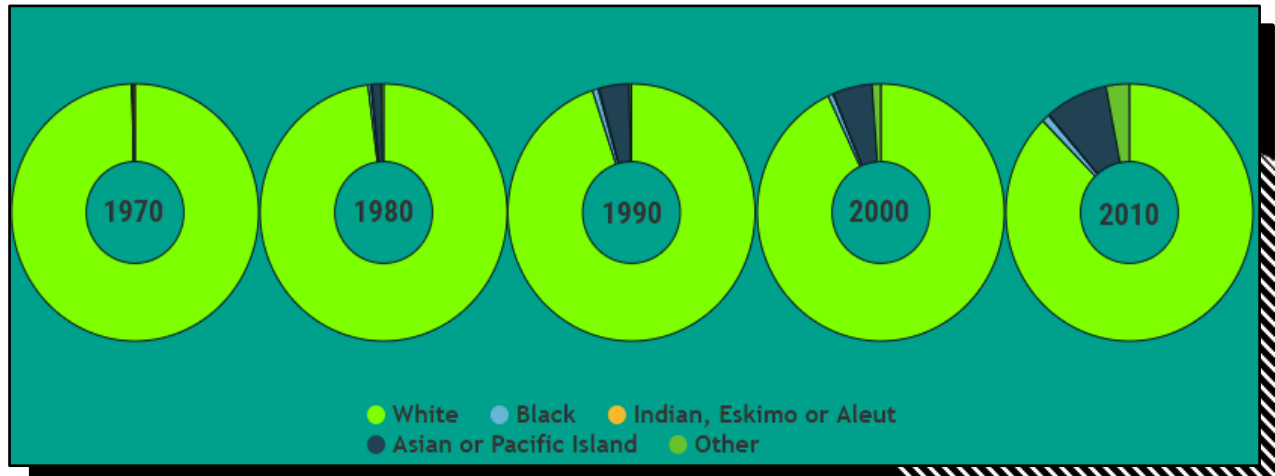


Figure 4. Historical Race Distribution

ENVIRONMENTAL JUSTICE MAP

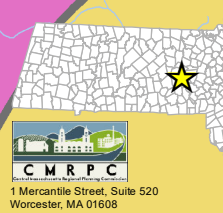
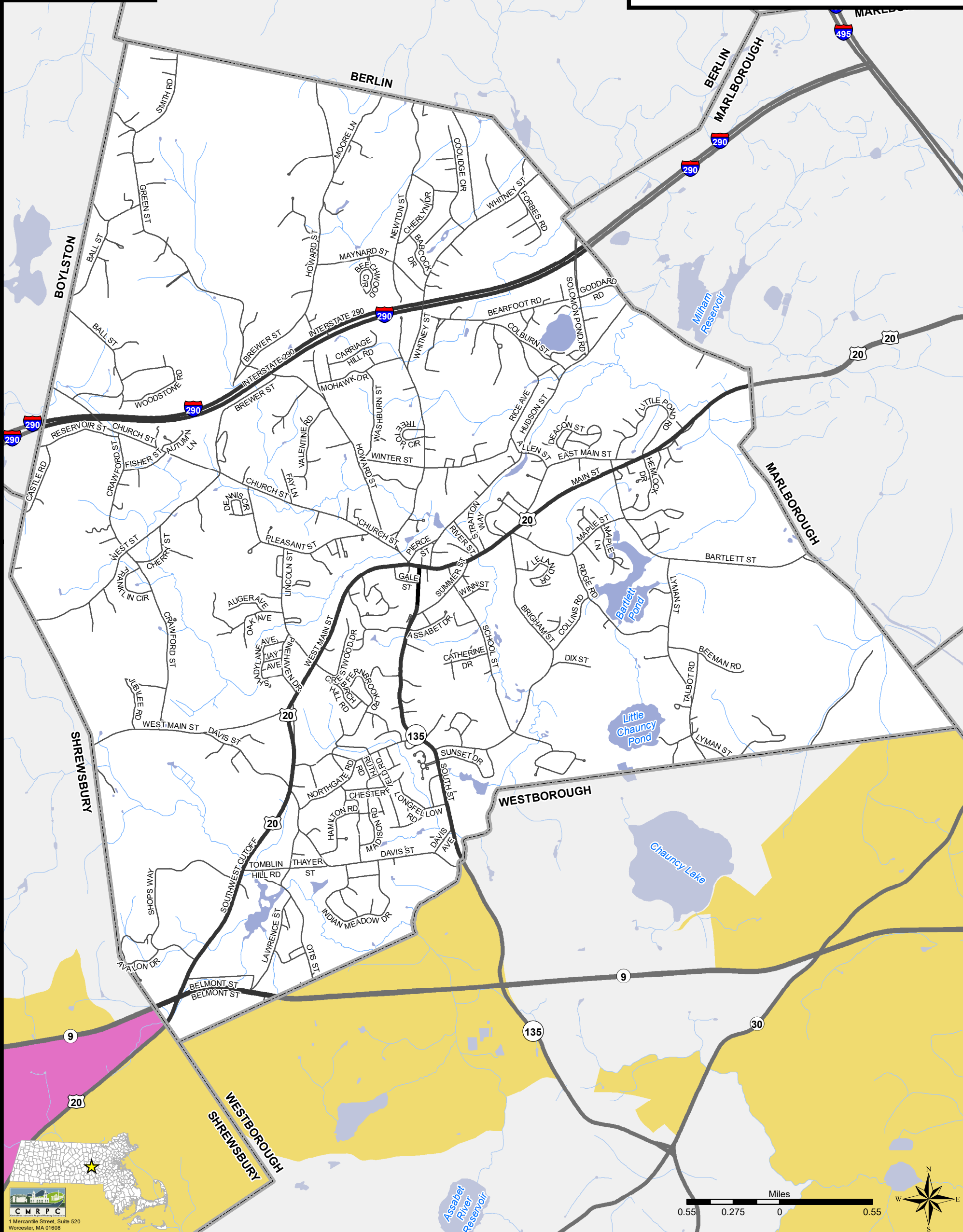
OPEN SPACE AND RECREATION PLAN

Source: Data provided by the Town of Northborough, CMRPC, massDOT and the Office of Geographic Information (MassGIS), Commonwealth of Massachusetts, Information Technology Division.

Information depicted on this map is for planning purposes only. This information is not adequate for legal boundary definition, regulatory interpretation, or parcel-level analysis. Use caution interpreting positional accuracy.

LEGEND

- | | |
|--|-----------------|
| Environmental Justice 2010 Populations | Town Boundaries |
| EJ Criteria, by Block Group | Water Bodies |
| Minority | Streams |
| Minority and English isolation | Major Road |
| | Local Road |



Town of Northborough, Massachusetts

PERSONAL INCOME AND EMPLOYMENT

Data available from the 2000 U.S. census indicated that the median household income in Northborough was \$79,781. Northborough’s median family income increased by approximately 40% between 2000 and 2010 (\$111,875 in 2010). Income of Northborough residents increased at a much faster rate than Worcester County (26.5%) and Massachusetts as a whole (25.5%). In 2017, 2.8% of Northborough families were below the poverty level.

The average daily vehicles miles traveled for residents of Northborough was between 75 and 100 miles per day - a slightly higher rate than the State average according to a 2010 study prepared by the Metropolitan Area Planning Council (MAPC). The mean travel time to work for workers 16 and over was 29.8 minutes, and residents of Northborough have an average

roundtrip commute of between 20 and 25 miles.

The unemployment rate for Northborough in 2010 was 27%. Northborough generally has a lower unemployment rate than the region; in 2010, the rate for Worcester County was 33.5% and for the entire state, 32.3%.

According to the 2012 Economic Census, the Town supports 1,395 businesses, including: sixty-six Professional, scientific, and technical services establishments; sixty-two Retail trade businesses; forty-four Health care and social assistance institutions; and thirty-nine accommodation and food services businesses.

The following Northborough companies employ more than 100 persons: Wegmans (500-999); Worcester Polytechnic Institute (500-999); Algonquin Regional High School; Aspen Aerogels

Inc.; Bigelow Nurseries Inc.; Boston Group; Home Instead Senior Care; Hope Group; Kohl’s; Northborough Inc. Lexus; and Walmart (Executive Office of Labor and Workforce Development, Infogroup, Omaha, NE, 2020).

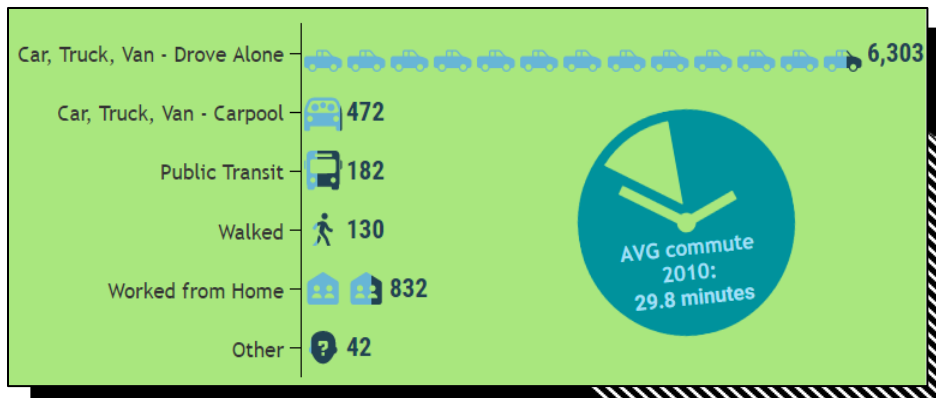


Figure 5. Northborough Commuting Behavior

D - Growth and Development Patterns

PATTERNS AND TRENDS

The town has evolved from a farming community through a period of business development to a primarily residential community while struggling to retain a rural feeling. Limited areas for additional residential, industrial, and business development exist in town; however, to retain the rural feeling, additional development should be carefully planned.

The Northeast Subregion (Northborough, Berlin, Boylston, Shrewsbury, and Westborough) of the Central Massachusetts Planning region has noted a significant gain in commercial land over the last several decades. The Route 9 corridor and the mall in Berlin help to account for much of this growth. The Route 9 corridor through Shrewsbury and Westborough has become one of the region’s largest concentrations of office

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buildings, high technology, corporate headquarters, and light manufacturing operations. This region and Northborough have also seen notable gains in new residential development. Based on current land use and zoning, only approximately 325.4 acres of potentially developable residential land remain (including vacant properties that are currently in a residential zone, accessory to commercial or industrial properties, properties that are not specifically included in another property type classification code and are not undevelopable for other reasons including topographic limitations). As build out is approached, it is expected that residential development will shift to other nearby Towns.

Residential areas are scattered throughout the Town, with the predominant areas in the center, north and south. Residential and industrial development has also encroached on areas that were forests, agricultural and open areas.

INFRASTRUCTURE – TRANSPORTATION

Approximately 76 miles of public roads are maintained by the town interconnecting the residents. In addition, the town is served by Interstate Route 290 (I-290), which runs through the northern section in an east-west direction. This highway links the Massachusetts Turnpike (I-90), with Interstate Route 495 (I-495), and provides easy access to Worcester. There are two interchanges in Northborough, one at Church Street in the west and one at Solomon Pond Road in the east. The area surrounding the Church Street interchange is primarily residential while the area around the Solomon Pond Road exit is zoned industrial.

Route 9 crosses a small portion of the southern section of Town. This roadway provides access to shopping opportunities in Shrewsbury, Westborough and other major towns to the east. Route 20 provides an additional east-west transportation route through the Town Center.

This area is developed with a variety of uses, both business and residential, and provides a secondary route accessing cities to the east. Route 135 (South Street) is the only other numbered route within the Town boundaries and connects the Town center with Westborough's Town Center. West Main Street is another major connector between Route 20 and Shrewsbury Center. This roadway is bordered by numerous commercial centers.

Northborough is served by a single railroad track owned by CSX and utilized for freight operations only. This railroad line runs through Northborough Center from Framingham and Westborough north to Clinton.

Northborough is a member of the Worcester Regional Transit Authority (WRTA) but there are no fixed bus routes in Town. Northborough contracts with WRTA to provide transportation services for seniors and persons with disabilities via a van service that currently operates only on weekdays during limited hours. The Assabet Valley Council on Aging (AVCOA) provides para-transit service to the elderly and handicapped on both a regular and on-call basis. The Worcester Municipal Airport is located on Route 122. Several smaller airfields are also located within a 20-mile radius.

The Town has approximately 37 miles of sidewalks, primarily located in the Downtown area and along Route 20. Outside of the Downtown area, sidewalks are narrow and worn and lack connections that make the Town truly “walkable” for commuting to work or completing local errands (as shown in Figure 5, less than 1% percent of residents in Northborough walk to work).

Expanding and maintaining the Town's sidewalks is vital to reducing reliance on single-occupancy automobiles for commuting. Additionally, a comprehensive sidewalk network is essential to supporting populations that are less likely to

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have access to a personal vehicle (i.e. senior citizens, low-income, persons with disabilities).

Northborough does not have any off-road bike and/or mixed-use paths. Further, on-road bicycle facilities are limited to accommodating shoulders (i.e. Main Street) rather than dedicated bike lanes.

INFRASTRUCTURE - WATER SUPPLY SYSTEMS

Approximately 80% of Northborough is serviced by a Town water distribution system, the exceptions are located in the north and west sections of Town (Ball Hill, Bartlett Hill and Tomblin Hill areas), which rely on private wells. The Northborough Water Division distributes the water and manages approximately 63 miles of distribution pipeline. The water department also operates two storage tanks, which provide 4.5 million gallons per day of reserve water. This system is further supplemented by a connection to the Massachusetts Water Resources Authority (MWRA) which derives its water primarily from the Quabbin (65 miles west of the City of Boston) and Wachusett Reservoirs (35 miles west of the City of Boston). The Town has four municipal water supply wells that are off-line and for emergency use only.

INFRASTRUCTURE - SEWER SERVICE

The Northborough wastewater disposal system began operation in 1980. It now services the residents of Northborough Center, the Northgate Area, the Cedar Hill Road Area, the Juniper Brook Area, and Hudson Street to the Barefoot Road and Forbes Road areas. Approximately 30% to 35% of town area or approximately 45% of the population is served by municipal sewer connections.

The Town does not have its own sewage treatment plant. All residential and industrial sewage within the sewered areas of Town is pumped to the Marlborough Westerly Treatment

Plant located on Boundary Street in Marlborough. This plant has a design capacity of 2.9 million gallons per day. Northborough has a contract allocating 800,000 gallons per day of this capacity to the town.

Additional extensions to the sewer system are provided for within a sewer master plan, which is in the process of being refined with rate studies (referenced below). This will ensure that future flows do not exceed the town's capacity at the Marlborough Westerly Sewage Treatment Plant (currently 800,000 gallons per day). To service the entire Town, Northborough would require 1.5 million gallons of sewer capacity per day. Accordingly, the Town may need to increase its permitted wastewater treatment capacity at the Westerly Wastewater Treatment Plan to accommodate future growth.

The Northborough Public Works Department is currently developing the following Master planning documents related to Water / Sewer:

- Water and Sewer System Master Planning
 - Water and Sewer Rate Study
 - Water Distribution System Hydraulic Model
 - Sewer System Inflow and Infiltration Evaluation
- Guardrail and Culvert Inventory and Assessment

DEVELOPMENT PATTERNS

The analysis of the change in land use over time was based upon aerial photo interpretation from flights taken in 1971, 1985, 1999, and 2005 as determined by the University of Massachusetts, Department of Forestry. Using Property Type Classification Codes from the Town's Property Assessment Data in 2017, approximate current land uses are portrayed in the rightmost column. Data is presented by acreage and percentage for each period. This information is presented here in table and chart as historical data showing the type and amount of land used for various purposes.

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Land Use	1971	%	1985	%	1999	%	2005	%	2017	%
Cropland/Pasture/Orchard/Nursery	1147.2	9.5%	830.3	7%	681.8	6%	621.3	5%	434.6	3.6%
Residential	1763.1	15%	2432.3	20%	3361.0	28%	2728.8	23%	5168.2	43.1%
Transportation/Waste Disposal	206.9	2%	210.8	2%	212.2	2%	237.5	2%	853	7.1%
Industrial/Commercial	181.1	1.5%	440.4	4%	593.9	5%	534.1	4%	1053.1	8.8%
Forests	6975.9	58%	6494.6	54%	5580.0	47%	5391.3	45%	4486.7	37.4%
Wetlands	736.7	6%	736.7	6%	601.5	5%	1564.1	13%		
Water Bodies/Open Public Land/Recreation	986.3	8%	851.7	7%	965.5	8%	918.6	8%		
Total	11997.2	100%	11996.8	100%	11995.9	100%	11995.7	100%	11,995.6	100%

Table 3.3 Land Use Changes from 1971, 1985, 1999, 2005 and 2017 by Acreage and Percentage¹

(University of Massachusetts Department of Forestry, 2005; Town of Northborough Assessors, 2017)

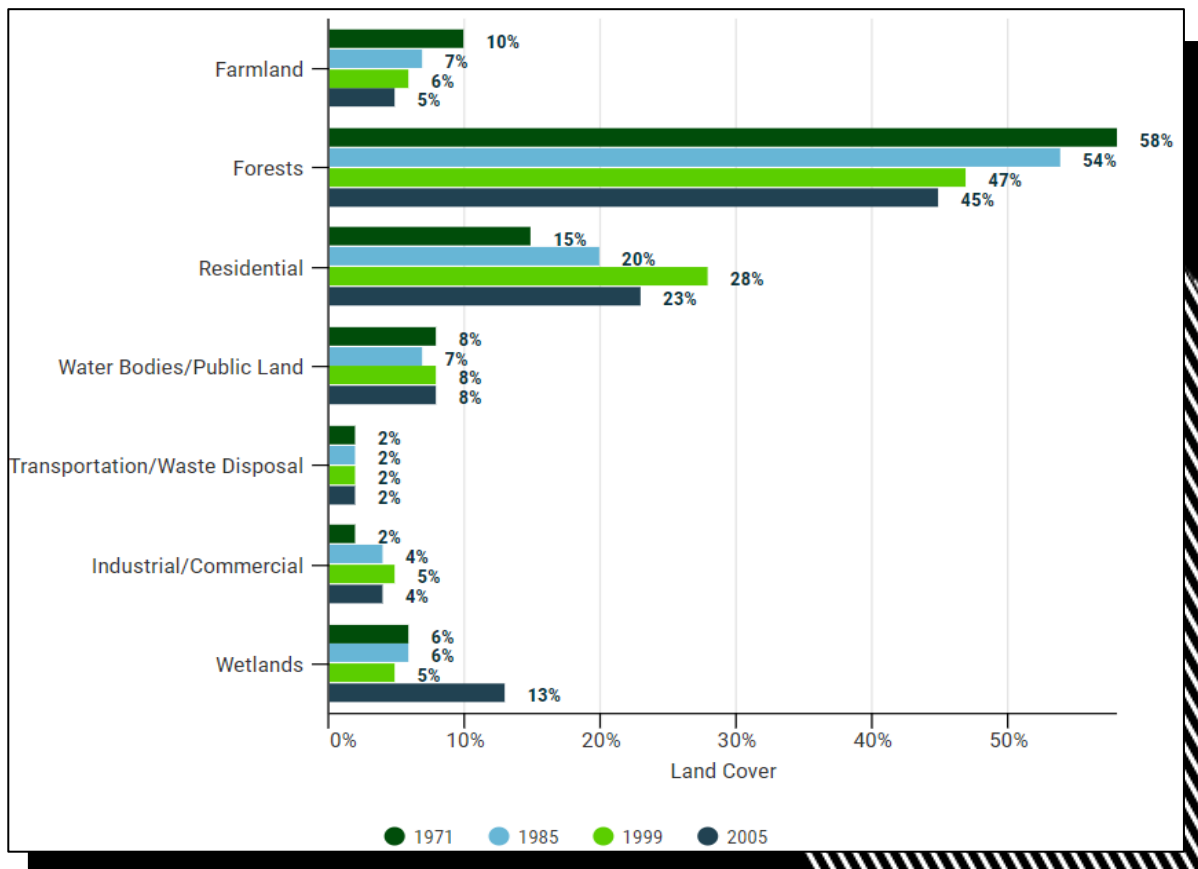


Figure 6. Land Use Changes

¹ Between 1999 and 2005, land use categories changed slightly. Some categories were broken out differently than previously. For example, 2005 includes both forested and non-forested wetland areas, that in previous presentations may have shown up in wetland areas and/or in forest areas. This may account for the decrease in forest and the increase in wetland areas.

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Cropland, pastures, orchards, and nurseries and forestry experienced considerable decline over the 34-year period from 1970 to 2005, with agricultural land decreasing from approximately 9.5% of the town to 5%, to 3.6% in 2017 according to Assessors data. Forestland decreased from 58% to 45%, to less than 37% in 2017. Land in residential use practically tripled, increasing from 15% in 1971 to 43.1% in 2017. Commercial, industrial, mining, transportation, and waste disposal uses more than quadrupled from 3.5% to nearly 16%. This is partly due to the Town's excellent location in regard to the regional highway network and local policies designed to increase the tax base with non-residential development.

Open space continues to be a predominant land use in town. Residential use is also widely dispersed throughout the Town. The Zoning Map shows the areas of greatest residential and commercial development radiating from the center of town, leaving large areas forested where the zoning requires larger lots.

LONG - TERM DEVELOPMENT PATTERNS – ZONING

The Northborough Zoning Bylaw was originally adopted in 1955. The Zoning Bylaw was reorganized in 1989, has since undergone many revisions through amendments at Town Meeting and, as a result, had become disorganized and difficult to use by applicants, town staff, and town boards. It was decided, therefore, to review the zoning bylaw and reorganize it in order to make it easier to understand and use. Beginning in 2006, a Zoning Subcommittee was formed consisting of members from the Board of Selectmen, Planning Board, Zoning Board of Appeals, Industrial Development Commission, and Design Review Committee. This Subcommittee met for 18 months and prepared a new zoning bylaw. The zoning bylaw was then given to the Planning Board and Zoning Board of Appeals and a series of joint meetings were held

between 2007 and 2009 to review and edit the bylaw. The reorganized Zoning Bylaw was presented at the 2009 Annual Town Meeting, beginning April 27th, for acceptance by the Town. The Zoning Bylaw was most recently amended at the 2020 Annual Town Meeting in July 2020.

Amendments to the following sections were approved on July 16, 2020:

- Section 7-05-030 Table of Uses, Table 1, Part A, Residential Districts, funeral home
- Section 7-05-020 Classification of uses, G. Business uses, kennel; Section 7-05-030 Table of Uses, Table 1, Part A and Part B, kennel
- Section 7-05-030 Table of Uses, Table 1, Part B, Commercial and Industrial Districts, indoor commercial recreation
- Section 7-05-020 Classification of uses, I. Industrial uses, (1) Light manufacturing; Section 7-05-030 Table of Uses, Table 1, Part B, Commercial and Industrial Districts, light manufacturing, warehouse, trucking, contractor's yard
- Section 7-05-020 Classification of uses, C. Residential uses; accessory, (6) Home occupation
- Section 7-06-030 (J) Supplemental density and dimensional regulations, duplexes
- Section 7-05-020 Classification of uses, add small-scale ground-mounted solar photovoltaic installation, solar photovoltaic installation roof-mounted, large-scale ground-mounted solar photovoltaic installation, solar photovoltaic installation canopy mounted; Section 7-05-030 Table of Uses, Table 1, Part A and Part B; Section 7-03-050 Site plans, A. Applicability; Section 7-06-020 Table of Density and Dimensional Regulations, Table 2. Table of Density and Dimensional Regulations, add new footnote; Section 7-06-030 Supplemental regulations, C. Yard requirements; Section 7-10-060 Large-Scale Ground-Mounted Photovoltaic Installation
- Section 7-02-040 Definitions, add Hazardous Materials; Section 7-05-020 Classification of uses, add Hazardous Waste Facility and Solid Waste Disposal Facility; Section 7-05-030 Table of Uses, Table 1, Part B, Commercial and Industrial Districts; Section 7-05-040 Environmental performance standards, F. Miscellaneous standards; Section 7-06-030 Supplemental regulations C. Yard requirements; Section 7-06-020 Table of Density and Dimensional Regulations, Table 2. Table of Density and Dimensional Regulations.

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The combination of the general reorganization of the bylaw with the recent changes summarized above provide an updated zoning bylaw that will meet the development needs of the Town of Northborough going forward.

The Town of Northborough now has 12 distinct zoning districts as shown on the accompanying Zoning Map and listed below.

Table 3.4 Northborough Zoning Districts

Zoning District	District Name	Minimum Lot Area (square feet)	
Residential	RA	Residence A (Single Family)	80,000
	RB	Residence B (Single Family)	40,000
	RC	Residence C (Single Family)	20,000
	GR	General Residence	15,000
	MSR	Main Street Residential	15,000
	DN	Downtown Neighborhood	10,000
Business	DB	Downtown Business	4,000
	BE	Business East	20,000
	BW	Business West	20,000
	BS	Business South	40,000
	HB	Highway Business	40,000
Industrial	I	Industrial	60,000

(Town of Northborough, Massachusetts, 2019)

There are also the following 4 overlay districts: Groundwater Protection Overlay Floodplain Overlay District (FOD); Major Commercial Development Overlay District (MCDOD); Residential-Open Space Planning Overlay District (ROPOD).

Groundwater Protection Overlay Districts were established to control development in the areas that do or could impact the area groundwater supply. Three types of areas shown on the Zoning Districts and Overlays Map on the following page and are delineated as follows:

- Area 1: Area of influence of all existing municipal wells within Town, confirmed by long term pump test or by stabilized water levels

after maximum duration pumping/primary recharge area.

- Area 2: Potential water supply area/primary recharge area.
- Area 3: Primary recharge area.

Northborough adopted both a Residential-Open Space Planning Overlay District bylaw (for southwest area of town) and an Open Space-Residential Design bylaw. OSRD Zoning Bylaw was adopted April 2009. The Open Space Residential Design Bylaw is intended to protect open space, agricultural and forestry land, scenic views, wildlife habitat and corridors, wetlands and water resources, and historical and archeological resources; to protect the value of

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real property; to encourage creative, environmentally sensitive design as the preferred form of development; and to encourage more efficient development that consumes less open land and respects topography and natural features better than a conventional or grid subdivision.

Table 3.5 presents the open space breakdown by zoning district.

Table 3.5 Northborough Open Space by Zone

Zoning District	Area (acres)	Percent of Town
RA	687.52	21.3%
RB	597.28	18.5%
RC	1,188.23	36.81%
GR	32.1	0.99%
BE	9.65	0.3%
BW	12.79	0.4%
BS	0	0%
I	700.38	21.7%

(Town of Northborough, CMRPC, massDOT and the Office of Geographic Information, Commonwealth of Massachusetts, Information Technology Division)

ZONING DISTRICTS & OVERLAYS

OPEN SPACE AND RECREATION PLAN

Source: Data provided by the Town of Northborough, CMRPC, massDOT and the Office of Geographic Information (MassGIS), Commonwealth of Massachusetts, Information Technology Division.

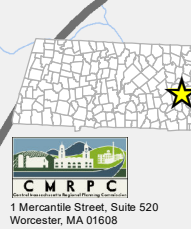
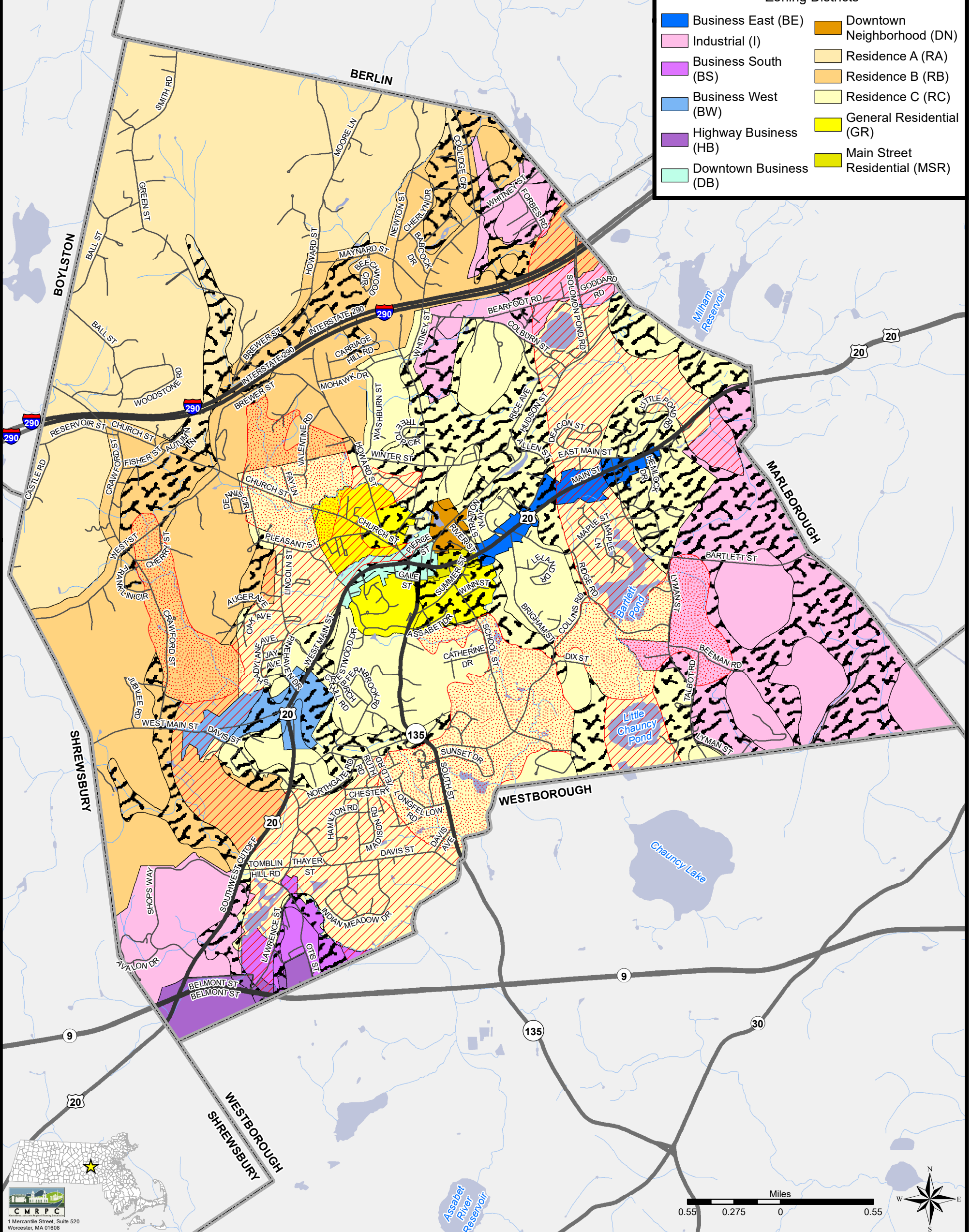
Information depicted on this map is for planning purposes only. This information is not adequate for legal boundary definition, regulatory interpretation, or parcel-level analysis. Use caution interpreting positional accuracy.

LEGEND

- Town Boundaries
- Water Bodies
- Streams
- Major Road
- Local Road
- Groundwater District Overlay Area 1
- Groundwater District Overlay Area 2
- Groundwater District Overlay Area 3

Zoning Districts

- Business East (BE)
- Industrial (I)
- Business South (BS)
- Business West (BW)
- Highway Business (HB)
- Downtown Business (DB)
- Downtown Neighborhood (DN)
- Residence A (RA)
- Residence B (RB)
- Residence C (RC)
- General Residential (GR)
- Main Street Residential (MSR)



CMRPC
1 Mercantile Street, Suite 520
Worcester, MA 01608



Town of Northborough, Massachusetts

E. Community Planning

Based on the new zoning districts and the bylaws, the build out analysis, and the rate of development, developers should be encouraged to utilize the open space residential design bylaw and to develop in the Residential-Open Space Planning Overlay District as a means to protect open spaces. In addition, efforts should be made to connect newly preserved open spaces with corridors and trails. The Northborough Trails Committee reviews and considers connecting trails on an on-going basis with the Conservation Commission and the Town Planner.

The Community Preservation Act is a funding tool to assist communities with the protection and acquisition of open space, preservation of historic resources, and the creation of affordable housing. The CPA was adopted by the Town of Northborough in November 2004 and the first round of funding was made available July 1, 2006. At the Annual Town Meetings held in 2006, 2007, 2008, and 2009, Town Meeting voters approved articles for all three categories.

The CPA allows for a real estate tax surcharge of up to 3% to create the Community Preservation Fund. Northborough voters adopted a 1.5% property tax surcharge, with exemptions on the first \$100,000 and exemptions for qualified low-income housing and low and moderate-income senior housing. Northborough also receives state matching funds for the town's Community Preservation Fund. The CPA stipulates that a minimum of 10% of the annual fund must be spent or reserved for the creation, acquisition, and preservation of the three areas of interested stated above. The remaining 70% may be allocated among these three areas and for parks and recreation and up to 5% may be reserved for administrative costs.

The CPA provides for local autonomy in deciding where and how funds will be spent. It is the

responsibility of the nine-member Community Preservation Committee (CPC) to consult with town departments and boards and community organizations; evaluate community preservation needs, develop a long-range community preservation plan; and make recommendations for CPA fund expenditures at Town Meeting.

By adopting the CPA, Northborough joins a host of other communities equipped with a powerful tool to help meet the challenges of embracing our heritage while meeting the demands of a growing population.

SUSTAINABILITY/RESILIENCY

In 2018, the Intergovernmental Panel on Climate Change (IPCC), the world's leading scientific body on climate change, released a report titled Global Warming of 1.5°C. The report indicated that the risks of climate change can be substantially reduced by limiting warming to 1.5 degrees Celsius. The IPCC has developed a science-based target to reduce emissions by 45% below 2010 levels by 2030 to limit the temperature rise and avoid catastrophic and irreversible damage. It is imperative that municipalities plan accordingly and work to reduce emissions.

Specifically, in the Sudbury Assabet Concord River basin, average, maximum, and minimum temperatures are expected to increase throughout the end of the century. A summer mid-century increase of 2.6°F to 7.1°F (3-9%) and an end of century increase of 3.6°F to 13°F (4-16% increase) is expected.

Northborough is making strides toward being more resilient and energy efficient. The Town was awarded Green Community designation in December 2018 under the State's Green Community Designation and Grant Program. Program participants pledge to establish

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renewable energy development standards and expedited application and permitting procedures, establish an energy use baseline for municipal buildings and facilities and cut associated energy use through the adoption and implementation of an Energy Reduction Plan, purchase fuel-efficient vehicles, and adopt the Massachusetts' Board of Building Regulations and Standards Stretch Code. Through designation, the Town was awarded \$149,309 in grant funding to fund energy conservation measures, a boiler upgrade, energy management system, and administrative assistance, in municipal facilities including the Police Station and Melican Middle School.

The Town also recently updated its Hazard Mitigation Plan. The most significant hazards identified during this planning process were flooding, severe snowstorms and/or ice storms, hurricanes, and severe thunderstorms, wind, or tornadoes.

The Hazard Mitigation Plan Update highlighted how changing climate conditions will impact these hazards. The update provides a range of mitigation actions to address infrastructure, preparedness actions, education, and local planning activities.

In support of the Town's efforts to guard against natural disasters, specifically those affiliated with climate change, the Town was awarded a planning grant in the amount of \$15,000 in April 2019 through the State's Municipal Vulnerability Preparedness (MVP) program. This grant funded a community-based workshop process in November 2019 where local stakeholders identified key climate-related hazards, vulnerabilities, and strengths, and developed adaptation actions and potential projects.

The Town is working with Weston and Sampson Engineers, Inc. during the MVP planning stage. Weston and Sampson will prepare a report and facilitate a public input session for the community to review the findings of the stakeholders and provide input. A final report will then be submitted to the state and, upon acceptance, Northborough will receive an MVP Community designation which will qualify the Town to apply for action grants to address the needs identified during the planning process.



Figure 7. Top Hazards within Northborough

SECTION 4

ENVIRONMENTAL INVENTORY & ANALYSIS



A - Geology, Soils, and Topography

The US Department of Agriculture, Soil Conservation Service, has defined eleven general soil types, of these, six can be found in Northborough. The predominant types are well-drained soils on slopes of less than 15%. Others in order of quantity are poorly drained bog soils, moderately well drained soils with less than 15% slopes, some with greater than 15% slopes and poorly drained mineral soils. Table 4.1 lists the general types with their respective acreages. The Surficial Geology shows three predominant soil groups, sand and gravel, till or bedrock, and flood plain alluvium. These correspond to the three types of soil, which are predominant in town.

The Soil Conservation Service has mapped three dominant soil types in the Town of Northborough.

- The Hinckley-Merrimac-Windsor soils are very deep, nearly level to steep soils that are excessively drained and somewhat excessively drained on outwash plains.

- The Paxton-Woodbridge-Canton soils are very deep, nearly level to steep soils that are drained and moderately well-drained on uplands.
- Chatfield-Hollis soils are moderately deep and shallow, gently sloping to moderately steep soils that are well drained or somewhat excessively drained on uplands.

Table 4.1 details each soil area's limitations for development with acreage and percentages of each found in Northborough. Approximately 40% of the Town (Soil Area 4) is characterized by soils capable of supporting residential, commercial, or industrial land uses without extensive modifications. These soils are generally capable of supporting on-site septic systems for disposal of sanitary waste. Where public sewers are available, lands falling within other soil types become somewhat more suitable for commercial, industrial and high-density residential use. Approximately 75% of the Town's soils are capable of supporting agriculture, while 100% are suitable for recreational and woodland uses.

Table 4.1 Soil Limitations for Development

Soil Group	Acreage	%	High Density Residential	Commercial	Industrial	Agricultural	Recreation	Wood-land
1	810.3	8	Severe	Severe	Severe	Severe	Slight	Slight
2	2,592.1	25.6	Severe	Severe	Severe	Slight	Slight	Slight
3	1,161.9	11.5	Severe	Severe	Severe	Severe	Slight	Slight
4	3,928.9	38.8	Slight	Slight	Slight	Slight	Slight	Slight
7	889.6	8.8	Severe	Severe	Severe	Slight	Slight	Slight
9	735.4	7.3	Severe	Severe	Severe	Severe	Slight	Slight

(Central Massachusetts Regional Planning District, USDA Soil Conservation Service, 1965)

SOILS & GEOLOGIC FEATURES

OPEN SPACE AND RECREATION PLAN

Source: Data provided by the Town of Northborough, CMRPC, massDOT and the Office of Geographic Information (MassGIS), Commonwealth of Massachusetts, Information Technology Division.

Information depicted on this map is for planning purposes only. This information is not adequate for legal boundary definition, regulatory interpretation, or parcel-level analysis. Use caution interpreting positional accuracy.

**Location data contained in this datalayer are based on MassDEP staff interpretation of information provided by PRPs and their LSPs. Point features in this datalayer should ONLY be considered as an "approximation" or "best estimate" of site locations based on the information submitted to the MassDEP BWSC. The accuracy and completeness of the information submitted has not been verified by MassDEP.

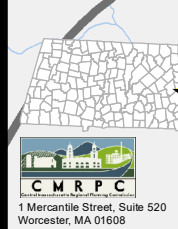
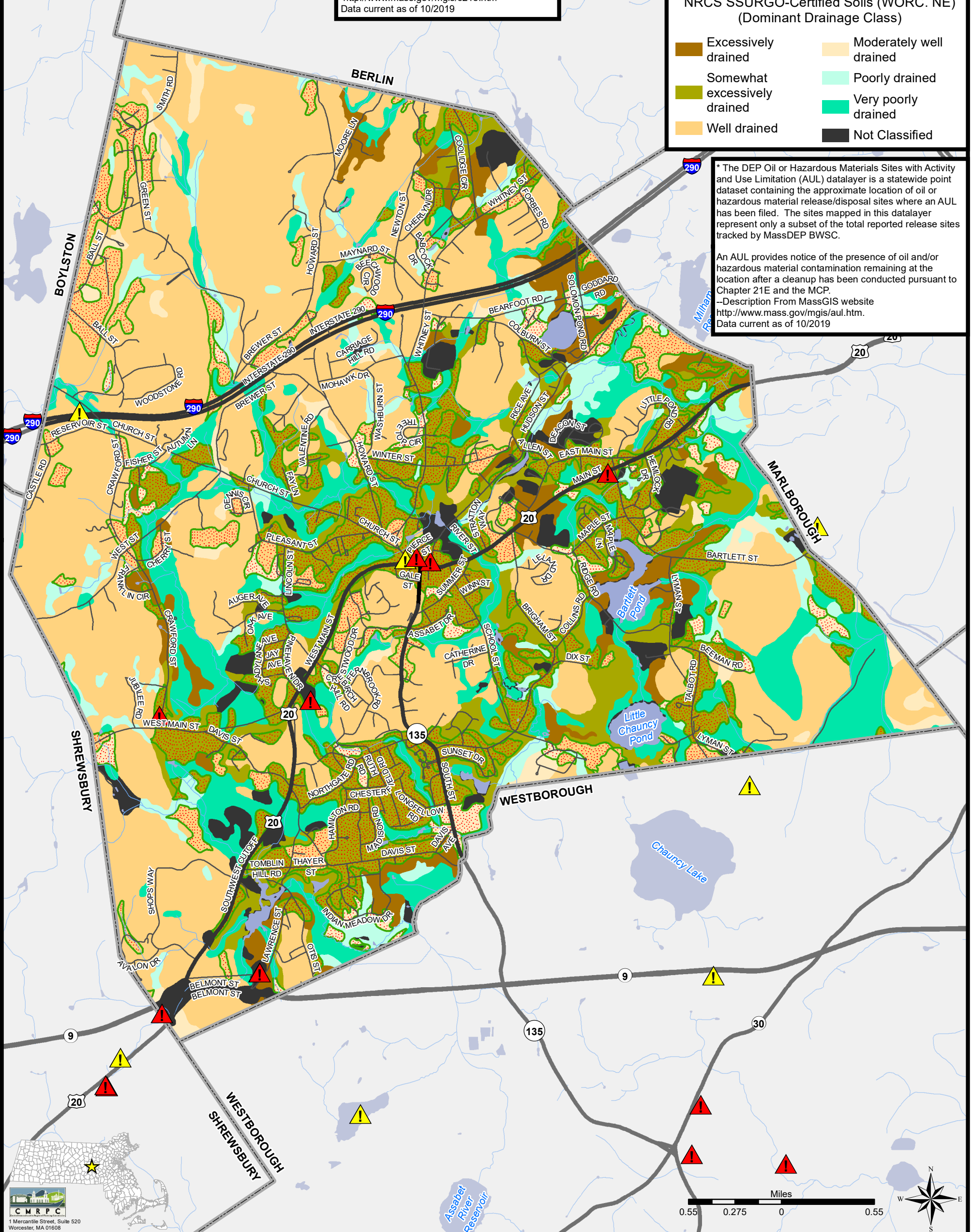
----Description From MassGIS website
See the MassGIS data layer description page for full data disclaimer.
<http://www.mass.gov/mgis/c21e.htm>
Data current as of 10/2019

LEGEND

- Town Boundaries
- Major Road
- Water Bodies
- Local Road
- Streams
- AUL Location*
- MassDEP Tier 21E Sites**
- Prime Farland Soils (NRCS Soils-WORC. NE)
- NRCS SSURGO-Certified Soils (WORC. NE) (Dominant Drainage Class)**
 - Excessively drained
 - Somewhat excessively drained
 - Well drained
 - Moderately well drained
 - Poorly drained
 - Very poorly drained
 - Not Classified

* The DEP Oil or Hazardous Materials Sites with Activity and Use Limitation (AUL) datalayer is a statewide point dataset containing the approximate location of oil or hazardous material release/disposal sites where an AUL has been filed. The sites mapped in this datalayer represent only a subset of the total reported release sites tracked by MassDEP BWSC.

An AUL provides notice of the presence of oil and/or hazardous material contamination remaining at the location after a cleanup has been conducted pursuant to Chapter 21E and the MCP.
----Description From MassGIS website
<http://www.mass.gov/mgis/aul.htm>
Data current as of 10/2019



Town of Northborough, Massachusetts

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Of note, Mt. Pisgah is composed of bedrock with a layer of glacial till. As you progress to the top of Mt. Pisgah, the soils become shallow and are much closer to bedrock at the highest points of the property. At the South View, glacial striations can be seen in the bedrock; these deep scratches show the direction of the glacier's path as it scoured its way through the area. Mount Pisgah itself is a heterogeneous mixture of several different rock types. The most dominant type is

mafic gneiss. Mixed in are marble, garnets, and white sillimanite crystals, indicating that the rocks surrounding Mount Pisgah were at one time buried nearly 15 km (that's half the thickness of the crust!) and heated up to temperatures in excess of 600 degrees Celsius before returning to their present location at the surface in Northborough and Berlin. (Sudbury Valley Trustees , 2009)

B - Landscape Character

Topography has been one of the principal factors affecting the location of urban development in Northborough. This is reflected in the zoning of the town. More than 80% of the Town's land area has slopes of less than 15%, which are usually suitable for development. Local regulations limit the grade of new roads to less than 10%, decreasing the possibility of developing less desirable areas. Most of the

steeper slopes occur in the western portion of Town, limiting development in that area.

The Northborough landscape is characterized by a series of rolling hills interspersed throughout the Town, with generally higher elevations in the western half of the community and gently sloping terrain in the eastern half of Town. Elevations vary from a low of 250 feet above sea level to a high of 715 feet at the top of Mount Pisgah.

C - Water Resources

WATERSHEDS

A watershed is an area of land that drains rainwater or snow into one location such as a stream, lake or wetland. These water bodies supply drinking water, water for agriculture and manufacturing processes, offer opportunities for recreation and provide habitat. Pollution such as runoff and erosion from roads and development can interfere with the health of a watershed. Therefore, it is of vital importance to protect the quality of Northborough's watersheds.

Earth is covered in 70% water and unfortunately more than 50% of our nation's waters are impaired or threatened. "Impaired" means that the water body does not support one or more of its intended uses. This could mean that the water is not suitable to drink, swim in or to consume the fish that was caught there.

The leading causes of pollution in waterways are sediments, bacteria (such as E. coli) and excess nutrients (such as nitrogen and phosphorus). Although nutrients sound positive, they can cause big problems in a poorly managed watershed. For instance, sediment can suffocate fish by clogging their gills and the presence of bacteria alone can indicate that other viruses and germs can be found in the water as well. Erosion, runoff of animal waste and overflowing of combined sewers are just a few ways these pollutants reach our waters.

Techniques to keep area watersheds clean and healthy include limiting development of buildings and roads, re-development that meets current stormwater standards, daily conservation of water, appropriate disposal of household chemicals, minimal use of fertilizers and selection of hardy plant species that require limited watering, use of permeable building materials,

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picking up after pets, and minimizing automobile traffic.

Northborough lies entirely in the Sudbury Assabet Concord (SuAsCo) Rivers Watershed. Within the watershed, Northborough is part of four Tributary Watersheds. The Howard/Cold Harbor Brook Tributary Watershed is in the western and northern section of town. The Assabet Headwaters Tributary Watershed is in the southwest and center part of town extending to the east. The North Brook Tributary Watershed is located in the northern part of town. Finally, The Sudbury Reservoir Tributary Watershed reaches only the very southeastern tip of town.

Additionally, the following eight sub-basins are located in Northborough: Howard Brook; North Brook; Coolidge Brook; Assabet River; Stirrup Brook; Sudbury River; Cold Harbor Brook; and Hop Brook.

SURFACE WATER

According to the land use data presented in Section 3, about 162 acres (1.3%) of Northborough's total land area is composed of open water bodies, not including the Assabet River and its tributaries. Fresh water ponds include two man-made ponds: Bartlett Pond in the eastern portion of town and Smith Pond in the western part; and two great ponds: Little Chauncy Pond to the southeast and Solomon Pond in the northeastern portion of town. These are shown on the Map 8 - Watersheds, Wetlands and Surface Water.

Surface water including lakes, ponds, brooks, streams and rivers include the following: Assabet River; Bartlett Pond; Bearfoot Brook; Chauncy Lake; Cold Harbor Brook; Cooledge Brook; Hop Brook; Howard Brook; Little Bummer Brook; Smith Brook; Solomon Pond; Stirrup Brook; Mill Pond; Little Crane Swamp; Crane Swamp; and Little Chauncy Pond.

The Assabet River originates in Westborough and soon reaches the southern boundary of Northborough. It then flows in a northerly direction, through the center of Town and flows into Marlborough at the northeast corner of Town. The majority of the Town drains into this basin. Only a small portion of the southeast corner of Town drains into the Sudbury Basin; however, the Sudbury River itself does not flow through Town. The Water Resources Maps illustrate the watershed divides with the sub basins.

FLOOD PLAINS AND WATER PROTECTION AREAS

Flood plains associated with Northborough's surface water are shown on the Water Resources Maps (Part A and B) on the following pages. Also included are the Zone II areas (Part B) for the water supplies of the Town discussed in Section 3 and Interim Water Protection Areas (IWPA's) for the Town. All of these areas are included in the local Groundwater Protection Overlay District, implemented in 1986 as part of the Northborough Zoning Bylaw.

This bylaw section was developed to help protect groundwater and the town's water supply. Wellhead protection areas are important for protecting the recharge area around public water supply (PWS) groundwater sources. A Zone II is a wellhead protection area that has been determined by hydro-geologic modeling and approved by the Department of Environmental Protection's (DEP) Drinking Water Program (DWP). In cases where hydro-geologic modeling studies have not been performed and there is no approved Zone II, an Interim Wellhead Protection Area (IWPA) is established based on DEP DWP well pumping rates or default values. Certain land uses may be either prohibited or restricted in both approved (Zone II) and interim (IWPA) wellhead protection areas. The minimum IWPA radius is 400 feet and the maximum radius is 0.5 miles.

WATER RESOURCES MAP (PART A)

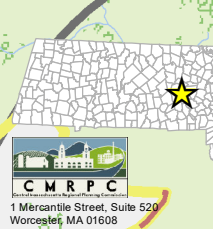
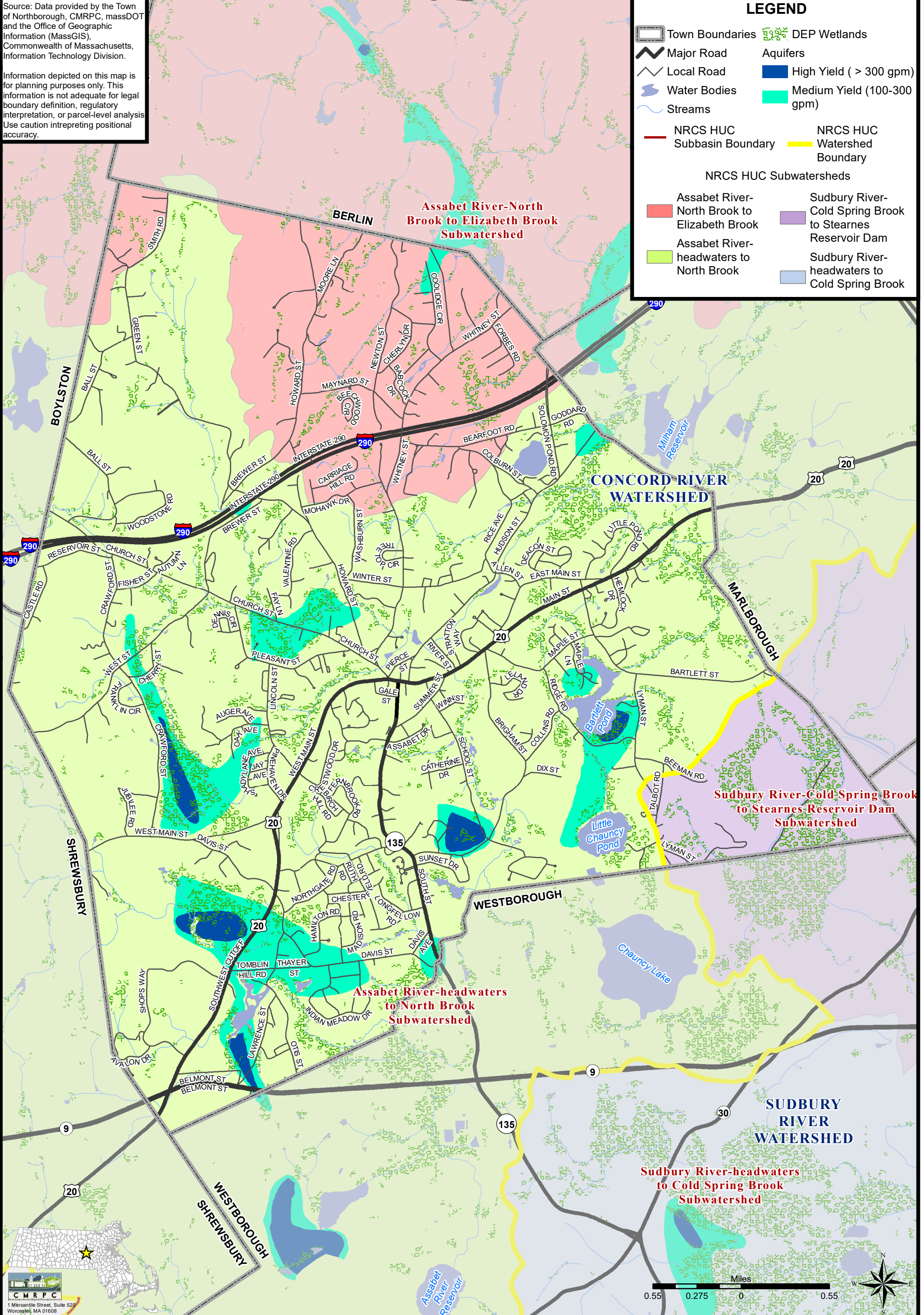
OPEN SPACE AND RECREATION PLAN

Source: Data provided by the Town of Northborough, CMRPC, massDOT and the Office of Geographic Information (MassGIS), Commonwealth of Massachusetts, Information Technology Division.

Information depicted on this map is for planning purposes only. This information is not adequate for legal boundary definition, regulatory interpretation, or parcel-level analysis. Use caution interpreting positional accuracy.

LEGEND

- Town Boundaries
- Major Road
- Local Road
- Water Bodies
- Streams
- DEP Wetlands
- Aquifers**
 - High Yield (> 300 gpm)
 - Medium Yield (100-300 gpm)
- NRCS HUC Subbasin Boundary
- NRCS HUC Watershed Boundary
- NRCS HUC Subwatersheds**
 - Assabet River-North Brook to Elizabeth Brook
 - Assabet River-headwaters to North Brook
 - Sudbury River-Cold Spring Brook to Stearnes Reservoir Dam
 - Sudbury River-headwaters to Cold Spring Brook



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Town of Northborough, Massachusetts

WATER RESOURCES MAP (PART B)

OPEN SPACE AND RECREATION PLAN

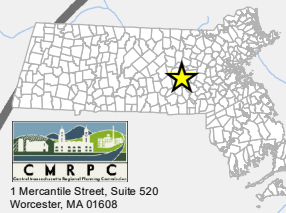
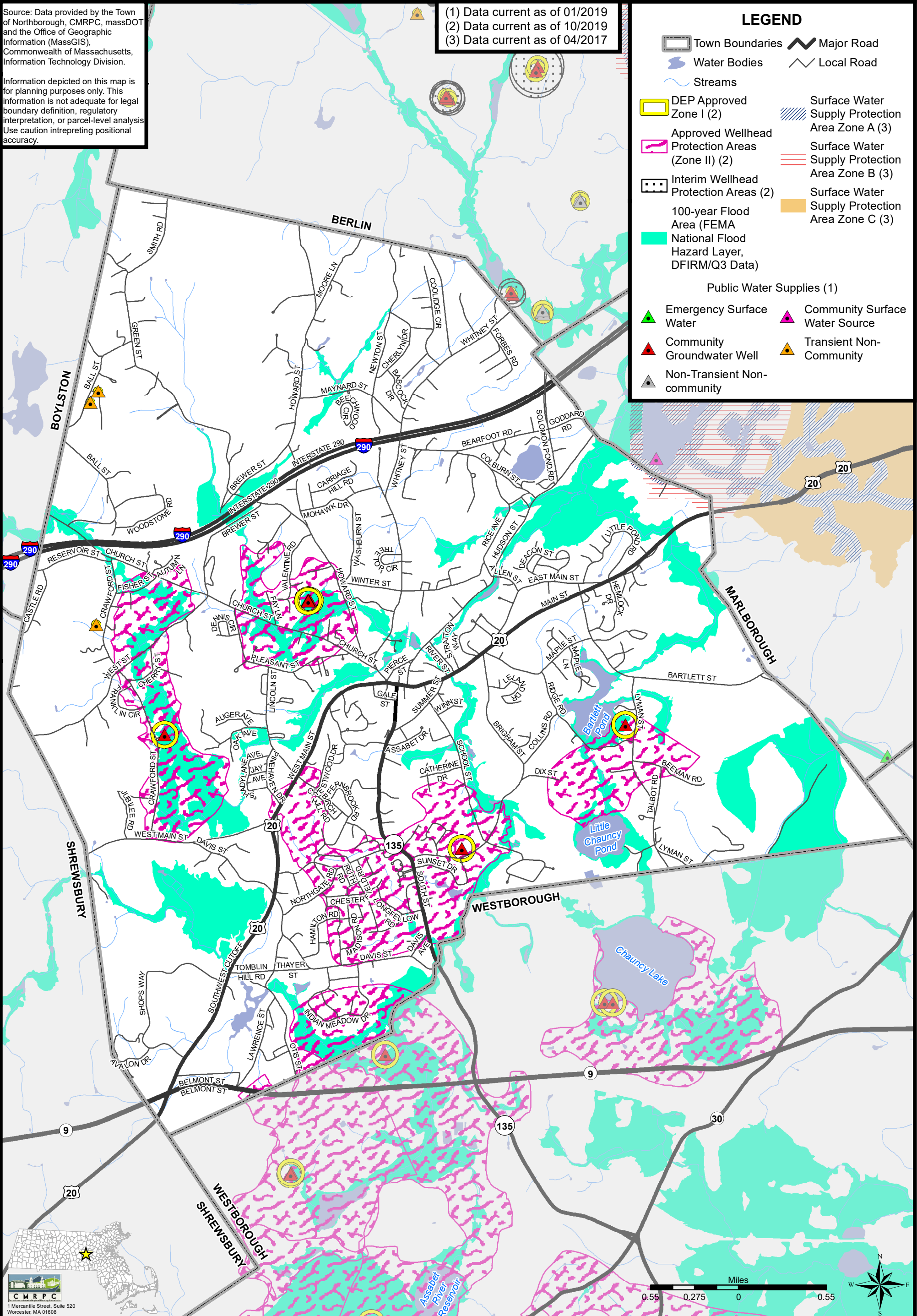
Source: Data provided by the Town of Northborough, CMRPC, massDOT and the Office of Geographic Information (MassGIS), Commonwealth of Massachusetts, Information Technology Division.

Information depicted on this map is for planning purposes only. This information is not adequate for legal boundary definition, regulatory interpretation, or parcel-level analysis. Use caution interpreting positional accuracy.

(1) Data current as of 01/2019
 (2) Data current as of 10/2019
 (3) Data current as of 04/2017

LEGEND

- | | | | |
|----------------------------------|--|--|---|
| | Town Boundaries | | Major Road |
| | Water Bodies | | Local Road |
| | Streams | | |
| | DEP Approved Zone I (2) | | Surface Water Supply Protection Area Zone A (3) |
| | Approved Wellhead Protection Areas (Zone II) (2) | | Surface Water Supply Protection Area Zone B (3) |
| | Interim Wellhead Protection Areas (2) | | Surface Water Supply Protection Area Zone C (3) |
| | 100-year Flood Area (FEMA) | | |
| | National Flood Hazard Layer, DFIRM/Q3 Data | | |
| Public Water Supplies (1) | | | |
| | Emergency Surface Water | | Community Surface Water Source |
| | Community Groundwater Well | | Transient Non-Community |
| | Non-Transient Non-community | | |



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Town of Northborough, Massachusetts

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In the 1950's, a work plan was proposed by the Soil Conservation Service to control flood damage in the SuAsCo watershed pursuant to the Watershed Protection and Flood Prevention Act (P.L. 566). Several floodwater retarding structures were built as part of a comprehensive program throughout the watershed to prevent flood damage. Descriptions of these facilities

that affect Northborough are presented in Table 4.2.

The 100-year flood plain is indicated on the Water Resources Maps. Generally, this flood plain is located within the lower lying elevations bordering the Assabet River, and the shoreline of many surface water bodies.

Table 4.2 Flood Damage Prevention Structures

	Hop Brook Dam	Cold Harbor Brook Dam	Bearfoot Brook Dam	Tyler Dam
Location	800 feet upstream from Route 20	3,700 feet upstream from Lincoln Street	300 feet downstream from Town line with Marlboro and Berlin	400 feet upstream from Robin Hill Road in Marlboro
Total Land Area	194.65 acres	230.32 acres	60.87 acres	175.91 acres in Northborough
Drainage	3,150 acres	3,000 acres	700 acres	13,500 acres
Area	4.9 square miles	4.7 square miles	1.1 square miles	21.1. square miles
Height of Dam	23 feet	22 feet	16 feet	31 feet
Type of Dam	Earth fill	Earth fill	Earth fill	Earth fill
Floodwater Storage (acre-feet)	1,340	1,450	173	2,660
Sediment Storage (acre-feet)	22	10	--	--
Expansion Potential for Wildlife Pool	Yes	Yes	Yes	Yes

(Soil Conservation Service, 1976)

The SCS report noted above provides additional information on potential increased reservoir areas at the following sites:

- A. Hop Brook, where a 234-acre permanent pool extending into Shrewsbury could be created, containing 5,867 acre-feet of storage;
- B. Howard Brook, where a 75-acre permanent pool could be created, containing 1,867 acre-feet; and
- C. Stirrup Brook, where a 52-acre site, providing 547 acre-feet of storage, could be created for temporary storage of floodwater and sediment.

WETLANDS

A wetland is an area of land whose soil is saturated with moisture either permanently or seasonally. Such areas may also be covered partially or completely by shallow pools of water. Wetlands include swamps, marshes, and bogs, and tend to occur in areas where, because of underlying geology, the water table intersects with the ground surface or where slowly permeating soils prevent drainage.

Northborough wetlands serve as recharge areas, provide wildlife habitats, and act as natural flood retention areas. The principal wetland areas in Northborough are associated with the

SuAsCo flood control project, along Hop Brook, Cold Harbor Brook, Howard Brook, the Assabet River, Stirrup Brook and Barefoot Brook. In addition, Crane Swamp drains into the open-channel Wachusett Aqueduct, which discharges into the Sudbury Reservoir in Southborough.

The Northborough Wetlands Protection Bylaw and Regulations provide more stringent requirements to further protect these resources. This document along with the state regulations provides protection for the smaller wetland areas by regulating construction to reduce the impact on these resource areas.

D - Vegetation

Forested areas in Northborough consist primarily of white pine and hemlock trees with mixed hardwoods in the northwest section of Town. This area also supports commercial agriculture and several orchards. Mixed hardwoods also grow in the southwest section of town. These areas are the only remaining large unfragmented forested areas in town. While some of these areas are owned by the Town and are therefore protected, others are privately owned and are vulnerable to development. All of these areas provide scenic, recreational and conservation value to the town. Protecting Northborough’s forests is one of the most important things we can do to combat climate change.

The small wooded areas scattered throughout the town provide visual screens and add to the town’s rural character. Many of these parcels form limited corridors for wildlife movement. Other areas of the town contain open fields that contribute to the perception that Northborough is a rural town. Over 300 acres of wetlands contribute to the ecological makeup of the town. These are mostly large areas consisting of open wetlands areas, forested wetlands, with ponds and streams collecting natural runoff. The diversity of these areas contributes to the valued character of the town.

The Massachusetts Natural Heritage and Endangered Species Program (NHESP) maintains a list of all Massachusetts Endangered Species Act (MESA)-listed species observed and documented in each town. The following table lists those rare species found in the Town of Northborough. These data were extracted from the database of the NHESP in April 2020.

Table 4.3 State Listed Rare and Endangered Plants

Taxonomic Group	Scientific Name	Common Name	MESA Status	Most Recent Observation
Vascular Plant	Arabidopsis lyrata	Lyre-leaved Rock-cress	E	1951
Vascular Plant	Platanthera flava var. herbiola	Pale Green Orchis	T	1946

E = Endangered; T = Threatened; SC = Special Concern

Public shade trees are located in Town right of ways, Town-owned parks, and in Town cemeteries. The Department of Public Works typically monitors and maintains these trees. Each year, some of these trees become damaged to a point where they may represent a

hazard. At that point, working with the Town's Tree Warden and following due process, the DPW may remove the "hazard tree". These are typically located in road side areas or

cemeteries and have been damaged in a road accidents or storm events. The Town of Northborough seeks to replace each tree as soon as possible in a location nearby.

E - Fisheries and Wildlife

The amount and types of wildlife habitat in Northborough has been dynamic since early colonial times. Once covered by primeval forest, a majority of the land in central Massachusetts was cleared for agriculture. This trend persisted for decades, until about 1840 when 75% of the arable land was in pasture or farm crops. The next 100 years was another period of dramatic change as most of the farmland was abandoned and new forest invaded.

Dramatic changes in the wildlife community accompanied these broad landscape changes. Some species thrived and expanded their range, while other were temporarily extirpated or became extinct. When agriculture dominated the landscape, species such as black bears, wild turkeys, and white-tailed deer were gone from most of their former range. Bluebirds were abundant during the agricultural period, but are now very rare breeders. Other open habitat species (bobolinks, vesper sparrows, and golden-winged warblers) are declining as well as available habitat shrinks.

Today, most of the protected and undeveloped land in Northborough is forested. While wildlife populations continue to be impacted by a variety of activities and development, probably the most significant impacts to the wildlife community have been these large regional changes in land use. In addition, recent human population expansion into central Massachusetts has meant the loss of more and more open space, which is converted to residential housing.

The wildlife community in any particular area is primarily driven by the type and extent of available habitat. Specific wildlife species each

have unique habitat requirements. The town of Northborough is a mosaic of habitat types and conditions. Town owned conservation land is primarily forested, while privately owned lands are comprised of small farms, woodlots, and residential areas. This patchwork of habitats is both a benefit and detriment to wildlife species. A greater diversity of species may exist because of the diversity of habitats. However, the fragmented nature of the town makes it more difficult for animal species to travel and interact, and in some cases, the different habitat areas may be too small to support individual animals or populations.

Overall, Northborough supports a variety and abundance of wildlife species, including, great blue herons, hawks, backyard songbirds, and numerous waterfowl. Mammals such as squirrels, rabbits, raccoons, skunks, woodchucks, deer, foxes, coyotes, beavers, mink, muskrats, porcupines, weasels, fishers, otters, and black bear are all present within the town's borders. Several large tracts of early successional habitat also exist. These large open, grassy areas may provide critical habitat for a variety of species dependent on open lands, including various insects, eastern meadowlarks, bobolinks, and a variety of sparrows. Open water resources provide excellent fishing, and many streams are regularly stocked with trout. Several ponds in Northborough also provide good locations for ice fishing during the winter.

The Massachusetts Natural Heritage and Endangered Species Program (NHESP) maintain a list of all Massachusetts Endangered Species Act (MESA)-listed species observed and documented in each town. The following table

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lists those rare species found in the Town of Northborough. Data was extracted from the database of the NHESP in April 2020.

Table 4.4 Northborough Rare Species as reported by the Natural Heritage and Endangered Species Program; MESA (Massachusetts Endangered Species Act)

Taxonomic Group	Scientific Name	Common Name	MESA Status	Most Recent Observation
Amphibian	<i>Ambystoma laterale</i>	Blue-spotted Salamander	SC	2011
Beetle	<i>Cicindela purpurea</i>	Cow Path Tiger Beetle	SC	1944
Beetle	<i>Cicindela duodecimuttata</i>	Twelve-spotted Tiger Beetle	SC	1944
Beetle	<i>Cicindela purpurea</i>	Purple Tiger Beetle	SC	1944
Bird	<i>Botaurus lentiginosus</i>	American Bittern	E	1981
Bird	<i>Vermivora chrysoptera</i>	Golden-winged Warbler	E	1986
Reptile	<i>Glyptemys insculpta</i>	Wood Turtle	SC	1993

E = Endangered; T = Threatened; SC = Special Concern

Numerous vernal pools² located throughout the town provide specific habitat for several species including the above listed salamander, wood frogs, fairy shrimp and a variety of insects. NHESP "certifies" the occurrence of vernal pools based on documentation of the pool's use by one or more groups of species that rely on vernal pools. The Town of Northborough had 21 "certified" vernal pools listed by NHESP as of

² Vernal pools are temporary pools of water. They are devoid of fish, and thus allow the safe development of natal amphibian and insect species. Most pools are dry for at least part of the year and fill with the winter rains or snow melt. Some pools may remain at least partially filled with water over the course of a year or more, but all vernal pools dry up periodically. This ensures the absence of fish, a chief characteristic of all pools.

April 2020. There may be more vernal pools that exist in the Town of Northborough that have not been "certified." MassGIS maintains a data layer of "potential" vernal pools based on aerial photography. They indicate that there are nearly 70 potential pools. (MassOLIVER)

In addition to the Town-owned conservation areas, a wildlife management area of approximately 107 acres within the Mt. Pisgah Conservation Area is owned by the Massachusetts Division of Fisheries and Wildlife and functions as an important link in a wildlife corridor that continues into Berlin and beyond.

UNIQUE HABITATS

The SuAsCo floodplain occupies large areas throughout Town and provides habitat for many wildlife species.

With funding made available by the Executive Office of Energy and Environmental Affairs (EOEEA), the Natural Heritage and Endangered Species Program (NHESP) developed the BioMap to identify the areas most in need of protection in order to protect the native biodiversity of the Commonwealth. BioMap focused primarily on state-listed rare species and exemplary natural communities but also includes the full breadth of the State's biological diversity. The goal of BioMap is to promote strategic land protection by producing a map showing areas, which if protected, would provide suitable habitat over the long term for the maximum number of Massachusetts' terrestrial and wetland species and natural communities.

As of 2012, the Town of Northborough supported ten (10) Core Habitats as identified by NHESP. Within Northborough, BioMap2 Core Habitat accounts for 1,152 acres and BioMap2 Critical Natural Landscape accounts for 903 acres. 573 acres (50%) and 582 acres (64%) of those sums are protected (respectively).

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The Core Habitats are described below and are shown on the Habitat Features map on the following page.

Core Habitat 1679 (Species of Conservation Concern)

This 155-acre polygon located partially within Northborough and bisected by the southern boundary is potential habitat for Blue-spotted Salamanders. Adult and juvenile Salamanders inhabit upland forests during most of the year, where they reside in small-mammal burrows and other subsurface retreats. Adults migrate during late winter or early spring to breed in vernal pools and fish-free areas of swamps, marshes, or similar wetlands. Larvae disperse into upland forest upon metamorphosis.

Core 1691 (Species of Conservation Concern)

This 313-acre polygon (located in both Northborough and Westborough in the southern portion of Town) is also potential habitat for Blue-spotted Salamanders and Four-toed Salamanders. Four-toed Salamanders live in forested habitats surrounding swamps, bogs, marshes, vernal pools, and other fish-free waters that are used as breeding sites. Most breeding sites in Massachusetts are characterized by pit-and-mound topography with significant sphagnum-moss cover. Eggs are typically laid in mounds or patches of moss that overhang water. Upon hatching, the larvae wriggle through the moss and drop into the water, where they will develop prior to metamorphosis.

Core 1693 (Species of Conservation Concern)

Located to the north of Core 1691, this 16-acre polygon is another potential habitat for Four-toed Salamanders.

Core 1713 (Wetland Core)

This 62-acre polygon located in the southeastern portion of Town features Wetland Core Habitat. Wetland Cores are the least disturbed wetlands

in the state. These wetlands are most likely to support critical wetland functions and to maintain these functions into the future.

Core 1720 (Wetland Core)

Split between Northborough and Westborough and south of Core 1713, this 311-acre Wetland Core is among the largest 20% of Wetland Cores statewide and in this ecoregion.

Core 1730 (Wetland Core)

North of Core 1713, this 10-acre polygon features Wetland Core Habitat.

Core 1736 (Species of Conservation Concern)

This 90-acre polygon in the upper southwestern quadrant of Town is potential habitat for Blue-spotted Salamanders.

Core 1752 (Species of Conservation Concern)

This 35-acre polygon located north of Core 1736 is also potential habitat for Four-toed Salamanders.

Core 1769 (Species of Conservation Concern)

This 292-acre polygon north of Core 1730 and bisected by the eastern Town boundary is also potential habitat for Blue-spotted Salamanders and Four-toed Salamanders.

Core 1859 (Forest Core)

This 712-acre polygon located partially in norther Northborough and party in Berlin, features Forest Core Habitat. Forest Cores are the best examples of large, intact forests that are least impacted by roads and development. Forest Cores support many bird species sensitive to the impacts of development and help maintain ecological processes found only in unfragmented forests. (Natural Heritage Endangered species Program, 2012)

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In addition to BioMap Core Habitat Areas (and as presented above in Tables 4.3 and 4.4), Northborough contains mapped habitat for three endangered species: the American Bittern (*Botaurus lentiginosus*), the Golden-winged Warbler (*Vermivora chrysoptera*) and the Lyre-leaved Rock-creep (*Arabidopsis lyrata*). The Town is also mapped for one threatened species (Pale Green Orchid, *Platanthera flava* var. *herbiola*), and four species of special concern: Blue-spotted Salamander (*Ambystoma laterale*), Cow Path Tiger Beetle (*Cicindela purpurea*), Twelve-spotted Tiger Beetle (*Cicindela duodecimguttata*) and Wood Turtle (*Glyptemys insculpta*).

Areas of Critical Environmental Concern (ACECs) are places in Massachusetts that receive special recognition because of the quality, uniqueness and significance of their natural and cultural resources. These areas are identified and nominated at the community level and are reviewed and designated by the state's Secretary of Executive Office of Energy and Environmental Affairs. ACEC designation creates a framework for local and regional stewardship of critical resources and ecosystems. As of June 2009, the Massachusetts Department of Conservation and Recreation (DCR) had no ACECs identified within the boundaries of Northborough.

The Habitat Features map shows the location of the NHESP Priority Habitats of Rare Species, and certified and potential vernal pools.

HABITAT FEATURES

OPEN SPACE AND RECREATION PLAN

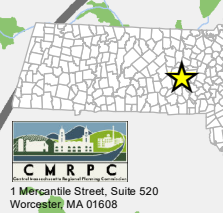
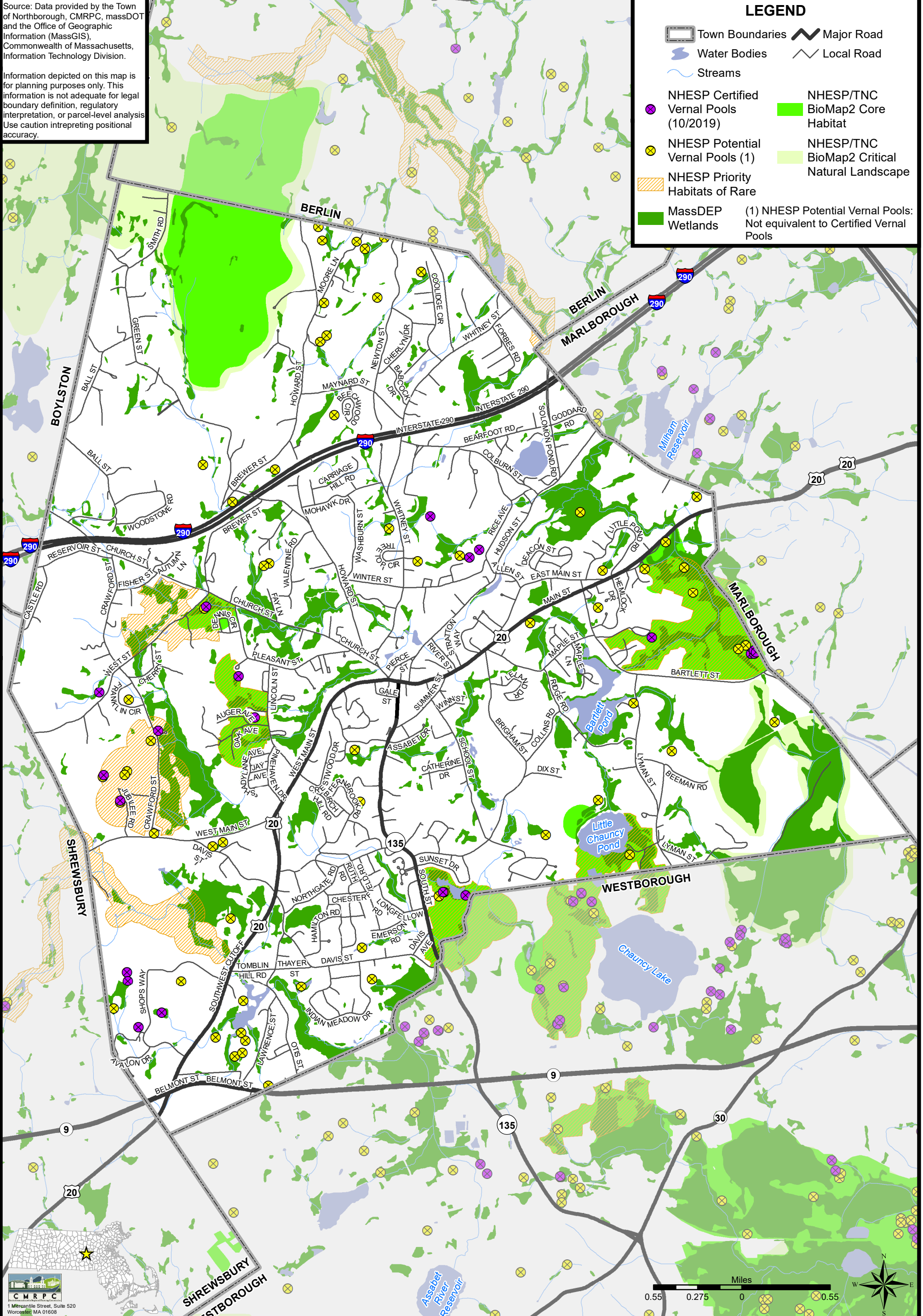
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LEGEND

- Town Boundaries
- Major Road
- Water Bodies
- Local Road
- Streams

- NHESP Certified Vernal Pools (10/2019)
- NHESP/TNC BioMap2 Core Habitat
- NHESP Potential Vernal Pools (1)
- NHESP/TNC BioMap2 Critical Natural Landscape
- NHESP Priority Habitats of Rare
- MassDEP Wetlands
- (1) NHESP Potential Vernal Pools: Not equivalent to Certified Vernal Pools



Town of Northborough, Massachusetts

F - Unique Environments and Scenic Resources

HISTORIC, CULTURAL, AND SCENIC RESOURCES

In 2009, the Historic Commission of Northborough undertook the process of documenting the historic assets within the town. This inventory created a record of each historical asset including information such as construction dates, architectural styles, use over time and notes on the people and activities associated with each site. The two-phase project inventoried all assets older than 100 years. Phase I resulted in 148 historical resources being inventoried and Phase II inventoried a total of 98 buildings, 6 structures, and 5 areas (Northborough Historic Commission).

Prior to the 2009 effort, at the 1987 Annual Town Meeting, the Town approved the Meeting House Common Historic District as an amendment to the Zoning Bylaw. This area is shown on the included map, and roughly encompasses an area bounded by Church Street, Whitney Street and Pleasant Street.

Also, at the Annual Town Meeting of 1987, the Town amended the Zoning Bylaw to add a Scenic Roads provision and designated twenty-seven roads as “Scenic”. This action provides for a thorough review by the Planning Board for any proposal, which might cut or remove trees or involve destruction of stonewalls along any Scenic Road in the Town. In order to be designated as a Scenic Road, a road must have trees of exceptional quality, be bordered by stonewalls, or contain natural or man-made features of aesthetic value such as orchards, fields and forests.

The Town of Northborough has actively documented its many historic resources over the years. This includes compiling an inventory of historic assets that is on file with the

Massachusetts Historical Commission in Boston. The inventory contains nearly 400 assets including buildings (primarily built before 1900), burial grounds, historic neighborhoods, objects (memorials, milestone marker), and structures (bridges, aqueduct).

In 2020, the Massachusetts Cultural Resource Information System (MACRIS) database listed 367 sites for the town of Northborough. The following table lists several historic, cultural, scenic or unique sites. These sites are shown on the map on the following page (Unique Features).

Table 4.5 MACRIS Search Results

Resource Type	
Houses	240
Unidentified Properties on Allen, Church, Davis, Hudson, Main, River, School, Summer, and West Main Street	21
Westborough Hospital and State Schools	22
Business-Related	19
Structures	13
Municipal	5
Schools	5
Religious	12
Farm Related	14
Commemorative Plaques / Memorials	5
Cemetery	2
Historic Districts or Areas	9
Total	367

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Besides the properties listed in MACRIS, Table 4.6 contains information on:

- Properties listed on the National Register of Historic Places
- Properties Protected with Preservation Restrictions
- Properties within Northborough's two Local Historic Districts
- Historic Markers installed around town
- War memorials
- Dams (nearly all 16 dams were built for industrial purposes in the 1700's and 1800's)
- Several iconic Northborough properties

The Unique Features map shows many resources identified during this planning process and the scenic roads with special status. As enumerated on the map, the Town of Northborough is home to the following unique features:

1. Mt. Pisgah Conservation Area: South Overlook can see to Boston
2. Mt. Pisgah Conservation Area: Renowned mountain biking area
3. Smith Road Green Check: Unique bucolic vista at Green Street Conservation Area
4. Bartlett Pond State Boat Ramp (Lyman Street)
5. Edmund Hill: Drumlin with sliding boulders and glacial erratics
6. Edmund Hill: State Champion Cucumber Magnolia Tree
7. Floating Trail Bridge (south of Church Street)
8. 1884 Excavation of Mastadon fossils (West Main Street)
9. Chapin Canal (Hudson Street)
10. Old Farm Trail abandoned cars
11. Mary Goodenow's Grave Site (Main Street on Marlborough border)
12. Lyman Street Cow Tunnel (near Talbot Road)
13. White Cliffs Historic Home/Landmark (167 Main Street)
14. Tougas Farm (Ball Street)
15. Davidian Farm (Ball Street)
16. Berberian Farm (Tomblin Hill Road)
17. Ellsworth Farm (Brigham Street)
18. Assabet River Stone Arch Aqueduct Bridge (Hudson Street)



Figure 8. A rainbow over Davidian Farm Fields.
Photo Source: Michael Davidian

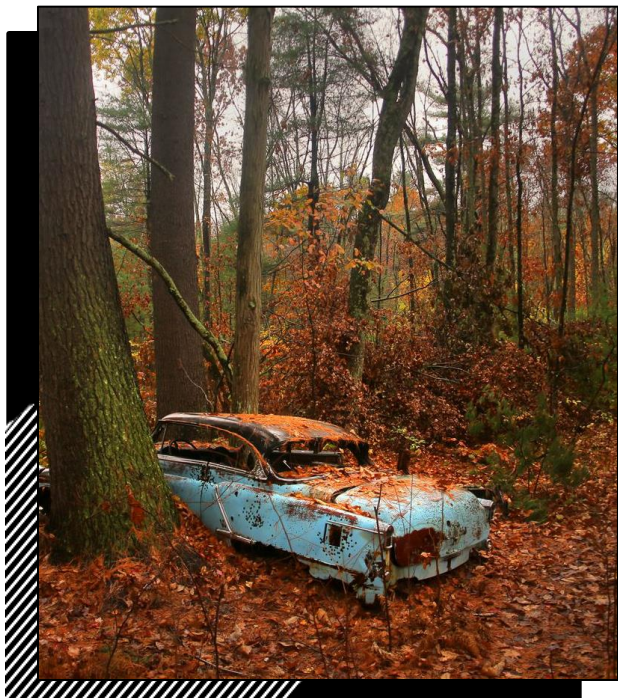


Figure 9. The 1.2-mile Old Farm Trail hugs Stirrup Brook and serves as a graveyard for several abandoned vehicles that are slowly overcome by nature.
Photo Source: Lane Turner / Boston Globe Staff

UNIQUE FEATURES

OPEN SPACE AND RECREATION PLAN

MHC Historic Inventory (11/2021)

- Nat'l Register of Historic Places
- ★ Preservation Restriction
- ▲ Local Historic District
- ▲ NRHP and LHD
- Inventoried Property
- Nat'l Register of Historic Places
- Preservation Restriction
- Local Historic District
- Inventoried Area

- Town Hall
- College or University
- Public
- Private
- Public Library
- Fire Stations
- Local Police
- ▭ Town Boundaries
- Water Bodies
- Structures
- Major Road
- Local Road
- Trails

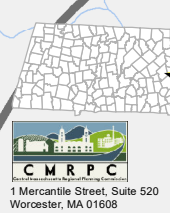
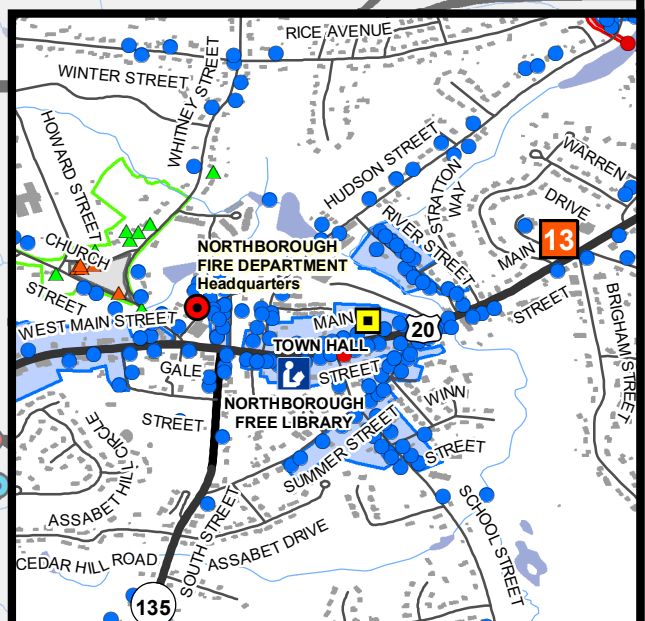
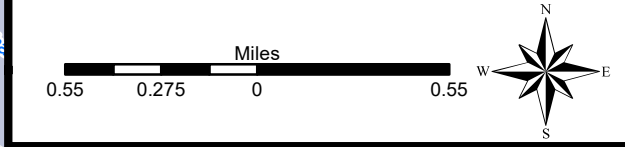
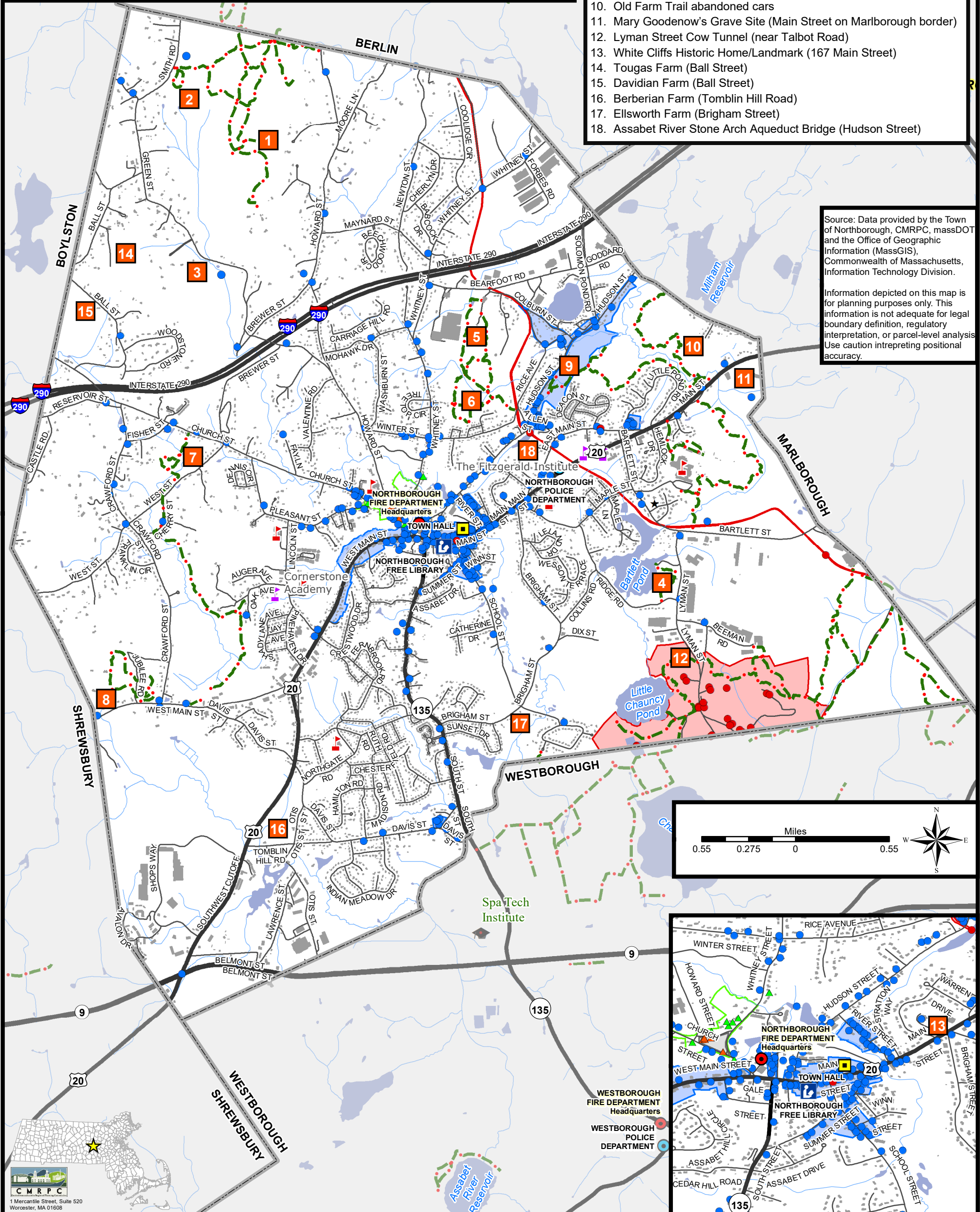
LEGEND

Unique Features

1. Mt. Pisgah Conservation Area: South Overlook can see to Boston
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12. Lyman Street Cow Tunnel (near Talbot Road)
13. White Cliffs Historic Home/Landmark (167 Main Street)
14. Tougas Farm (Ball Street)
15. Davidian Farm (Ball Street)
16. Berberian Farm (Tomblin Hill Road)
17. Ellsworth Farm (Brigham Street)
18. Assabet River Stone Arch Aqueduct Bridge (Hudson Street)

Source: Data provided by the Town of Northborough, CMRPC, massDOT and the Office of Geographic Information (MassGIS), Commonwealth of Massachusetts, Information Technology Division.

Information depicted on this map is for planning purposes only. This information is not adequate for legal boundary definition, regulatory interpretation, or parcel-level analysis. Use caution interpreting positional accuracy.



Town of Northborough, Massachusetts

Table 4.6 Historic, Cultural and Scenic Resources

Resource	Location	Significance	Type
Assabetville Mills Site	Main Street	The Assabet Woolen Mill was originally a textile factory complex founded by Amory Maynard in 1847	Historic Marker
Assabet River Dams	Main Street	The dam's cut-stone construction is characteristic of the second half of the 19th century	Dam
Bartlett Pond Dam	Off of Lyman Street	Recreation	Dam
Bicentennial Time Capsule Marker	Main Street	Monument with Plague circa 1966	Historic Marker
Boston Post Road Plaque	East Main Street	Marker summarizes the history of Benjamin Franklin's role as Joint Postmaster General in the establishment of milestones along the Old Boston Post Road.	Historic Marker; National Register of Historic Places
Brigham Street Burial Ground	380 Brigham Street	First Burial Grounds in Northborough, located between 360 and 380 Brigham Street	Iconic Property
Brigham Street Burial Ground Marker			Historic Marker
Captain Samuel Wood, Militia Departure Site	Church Street	Marker at the intersection of Church and Pleasant streets memorializing the spot where town militia men trained.	Historic Marker
Center School - Grange Hall	10 School Street	The structure is now the Northborough Grange, but was built in 1837 as the Center District School building.	Iconic Property
Chapinville Mill Site	Hudson Street	Mill Houses, canal and out buildings associated with the Chapinville Mill	Historic Marker
Charles Winn Mansion Site	Park Lane	The Winn Mansion, built in 1870 by Charles Winn, was demolished in 2008	Historic Marker
Chet's Diner	Main Street	Chet's Diner is a Worcester Lunch Car Company. Worcester Diners were hand-built at the factory, then transported to their sites via truck.	Iconic Property
Civil War Memorial	West Main Street	The Soldiers' Monument, crafted of "granite from their New England hills" was dedicated in 1870 on the 8th anniversary of the Battle of Antietam, in which Northborough lost 5 soldiers.	War Memorial
Cold Harbor Bridge Marker	Church Street	Marker at the site of the Gibson Mill that produced combs in the late 19th century.	Historic Marker
Cold Harbor Brook - Flood Control Dam	Off of West Main Street	Flood Plain Control	Dam
Daniel Wesson Summer mansion (White Cliffs)	167 Main Street	Mr. Wesson of Smith and Wesson gun fame built "The Cliffs" as a summer home.	Iconic Property
First Congregational Unitarian Church	Church Street	Northborough's First Meeting House	Preservation Restriction
Gale Store Marker	Main Street	Cyrus Gale's store was a central feature of Northborough in the 19th century.	Historic Marker
General Henry Knox Trail Commemorative Plaque	In front of Town Offices	Commemorates General Henry Knox's travels through Northborough,	Historic Marker
George L. Chesbro House	103 Bartlett Street	Second Empire-style home that retains much of its original features, including the cupola and quoins. Chesbro was a member of the Board of Library Trustees, which was established in 1868.	Preservation Restriction
George Washington Memorial Highway Marker	Route 20	Bronze marker attesting to the fact that George Washington visited Northborough during his tour of New England after he was elected president.	Historic Marker
Gov. John Davis Highway Marker	Route 20	In 2010, the section of Route 20 located within Northborough was designated the John Davis Highway, in honor of John Davis, who served as governor of the commonwealth in 1834 and 1835.	Historic Marker
Gulf War Memorial	Main Street	The Town erected a Gulf War Monument as part of the Town Common construction.	War Memorial
Historic Route 20 Markers	Route 20	i.e. George Washington Memorial marker	Historic Marker
Hop Brook Dam	Off Southwest Cutoff	Flood control	Dam
Howard Street Burial Ground	Howard Street	The Burial Ground has a strong association with Northborough's religious history and is repository of typical and well-preserved examples of early Northborough gravestones.	Iconic Property
Hunt Brothers Shoe Mfg. Site	Main Street	Captain Jeremiah Hunt and his brother, Stephen, are credited with being the first in Northborough to make shoes on a large-scale basis.	Historic Marker
John Brigham Saw Mill Site	Whitney Street	In 2016 members of Northborough's 250th Anniversary Historical Subcommittee worked with a local Boy Scout Troop 1 to place temporary markers around town at different locations including the John Brigham Saw Mill Site where Howard Brook crosses Whitney Street.	Historic Marker
John Stone House	Church Street	The house (constructed between 1816 - 1850) was owned by John Stone, a dry goods merchant. The house is currently used for commercial space; however, it still retains much of its original trim and detailing.	Iconic Property
Lieutenant William Holloway Home	302 Church Street	Believed to be built in 1711, was the home of Lieutenant William Holloway. In 1744, the first Precinct Meeting was held in the house on November 15, 1744.	Iconic Property
Mary Goodnow Tercentenary Marker	490 Main Street	Gravesite of Mary Goodnow (sic), a young Northborough settler, who was scalped by Indians in 1707. Marked by a state historic marker. There is a permanent right of access across private property.	Historic Marker
Mary Goodnow Gravesite			Iconic Property
Meeting House Common - Local Historic District	Church Street	Includes Unitarian Meeting House, Unitarian Hall, Paul Revere Bell Marker, Earl P. Taylor Marker, World War I Memorial, Minute Man Muster Field Marker, Howard Street Burial Ground, and six privately owned homes	State Register of Historic Places
Minuteman Statue	Main Street	Erected in 2005 in honor of the men and women of Northborough who served in war and peace.	Historic Markers
Mount Assabet Marker	Gale Street	A granite monument near the trailhead was placed in 2004 in memory of children that died young.	Historic Markers
MWRA Granite markers along the Aqueduct	Hudson Street	In FY2019, MWRA received a Recreational Trails Grant from DCR to purchase 18 granite markers for improved wayfinding along aqueducts trails in Natick, Needham, Northborough, Southborough, Wayland, Wellesley, Weston, and Framingham.	Historic Markers

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Resource	Location	Significance	Type
Native American Trail	Bartlett Street	In 2020 the Town installed a sign commemorating a significant Native American trail that passed through lands that are now part of Northborough. It was a loop trail that separated from what the Europeans called the Connecticut Path in Sudbury and reconnected with it in Grafton.	Historic Marker
Northborough First Baptist Church	52 Main Street	Current Historical Society Building	National Register of Historic Places
Old High School (current Town Hall)	63 Main Street	Old Northborough High School- built in the early 1930s.	Iconic Property
Old Saw Mill Pond Dam	Upstream of Route 20	Flood control	Historic Marker
Paul Revere Bell	Near Unitarian Church front door on Church Street	Bell cast in Revere Foundry. 1154 pounds cast in 1809	Historic Marker
Peter Whitney Parsonage - Local Historic District	Whitney Street	Peter Whitney, was the town's second minister. Originally built around 1690 and rebuilt following a 1780 fire, the home is filled with antiques Whitney and his wife Julia would have used. The floors, woodwork, walls, door hardware and ceilings are original, while the current owners used old photographs and plans to restore the rest.	State Register of Historic Places
Previous Town Hall (rebuilt in the 1980's)	West Main Street	In 1985, the old Northborough Town Hall was destroyed by fire and restored to replicate the exterior of the original building.	Iconic Property
Reverend Luther Rice Birthplace Marker	Main Street	Born in Northborough in 1783, Luther Rice was a leader of "The Brethren" at Williams College.	Historic Marker
Garrison House of Samuel Goodenow Commemorative Plaque	416 Main Street	The location of the garrison house belonging to Samuel Goodenow (sic) and states his daughter was attacked by Indians on August 18, 1707. Plaque erected by Northborough Historical Commission.	Historic Marker
September 11, Fallen Heros Marker	Church Street	Memorial in honor of our police, firefighters, and fallen heroes of the September 11, 2001 attack on the U.S.	War Memorial
Smith Pond Dam	Otis Street	Flood control	Dam
Spite House Marker	Whitney Street	The owner built the house to block their neighbors' view of whatever was traveling to or from town. When originally built, the Spite House had no windows on the side facing the other home.	Historic Marker
The Doctors House	Main Street	The house appears on the 1830 map with Dr. Stephen Ball Jr. as the owner, and town records and style both suggest a construction date around 1800. Now the C'est La Vie Bistro.	Iconic Property
The Old Northborough Bank Building	Main Street	Until 1854, none of the towns around Northborough had a bank, which slowed the development of new industries in the area. In that year, the MA General Court passed an act incorporating the Northborough Bank.	Iconic Property
Trinity Church	Main Street	The Church was founded in 1832, with Samuel A. Fay as its first pastor, as a conservative reaction to the spread of Unitarianism.	Iconic Property
Old Mill Pond Dams	Route 20	Flood control	Dam
Wachusett Aqueduct Linear District	Vicinity of Hudson Street and Allen Street	Water Supply System for Metro Boston from Wachusett to Sudbury Reservoir. Built in 1896, it consists of several stone arches across the Assabet River. Provides a picturesque entrance to the town from the north.	National Register of Historic Places
Wallace Pond Dam	Hudson Street	Flood control	Dam
Wesson Fountain	167 Main Street	Mr. Wesson of Smith and Wesson gun fame built "The Cliffs" as a summer home.	Historic Marker
Westborough State Hospital (several buildings within Northborough)	Lyman Street north of Chauncy Lake and junction of South Street and Route 9 Westborough	Former State Hospital and State School	National Register of Historic Places
Woodside Mill Site	Hudson Street	The Woodside mill produced satinets, blankets, and other cotton-and-wool fabrics.	Historic Marker
WW-I War memorial	Church Street	Monument bearing the names of two Northborough casualties - Vincent F. Picard and Adolph C. Nelson - and 71 citizens who served,	War Memorial
WW-II , Korean, Vietnam Monument	Main Street	Plaque in honor of Cpl. Edwin L. Mitchell, the town's only known missing in action prisoner of war	War Memorial

G - Environmental Challenges

The Massachusetts Department of Environmental Protection listed 124 Waste Sites/Reportable Releases in its Database for the Town of Northborough as of April 18, 2020. These 124 releases were at 95 locations throughout the town. The earliest reported release was on January 15, 1987. The majority of these sites (86) have been given a Compliance Status of Response Action Outcome (RAO), which indicates that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated. Of the listed sites, a few have ongoing cleanup and/or monitoring at this time.

WASTE HANDLING

The town utilized a landfill for municipal waste until 1977. Municipal waste is collected curbside and disposed of at the Wheelabrator Resource Recovery Facility in Millbury by contract with a private hauler. Republic Services has collected trash and recycling for the Town since July 2011. In addition, the town instituted an aggressive recycling program beginning in 1991 and a Pay-As-You-Throw Program in January 2003. The Pay-As-You-Throw Program for curbside trash collection has been successful in decreasing the tonnage of municipal waste while also encouraging recycling, which has risen in the past fifteen years. Since July 2005 the trash tonnage has decreased from 2,864.16 tons to 1,919 tons in 2018 (a 33% decrease from 2005 and a 1.9% decrease from the previous 12 months). (Northborough Annual Budget For the Fiscal Year, 2020).

The Town continues to offer two sizes of bags and the bag fee was last revised in 2007 and remains set at \$3.00/large bag and \$1.50/small bag. A fee of \$10 per box is leveraged for the disposal of hazardous waste at the annual Household Hazardous Waste Day event. In addition, a sticker fee of \$10 per item

for the disposal of large/bulky items set out at the curb was instituted in March of 2006.

In 2019, the Town received \$5,400 as part of the Department of Environmental Protection's Recycling Dividends Fund program which provides payments to municipalities that have implemented specific programs and policies proven to maximize reuse, recycling, and waste reduction. The award was used to offset the cost of purchasing recycling bins and the cost of producing and mailing the recycling calendar to each household.

The Northborough Recycling Commission is responsible for proposing, supporting, and monitoring recycling projects in order to increase the percentage of items recycled and reduce the volume of recyclable items that are disposed of in the municipal solid waste. This group has implemented a number of waste reducing and recycling initiatives including:

- Scrap Metal Recycling and Battery Collection Event
- Household Compost Bins and Rain Barrels Sales
- Town-wide Swap Meet
- Electronics Collections
- Household Hazardous Waste Collection
- Yard Leaf Composting

The Engineering Department accepts button cell batteries, rechargeable batteries, and mercurial thermometers, which are all unacceptable items for the waste stream.

DEVELOPMENT IMPACTS

Over the years, residential and commercial/ industrial developments have encroached on areas that were once forests, agricultural and open areas. The Board of Selectmen, Town Planner, the Planning Board, the Conservation Commission and area residents work together to minimize negative development impacts and to

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promote positive smart growth principles in proposed development projects.

Between 2005 and 2014 Northborough was in the top 10 towns in Massachusetts with the highest rate of development, according to MA Audubon's Losing Ground Report. Since 2014 Northborough's development rate has slowed, but nearing build out with continued development pressure, the Town's open space initiatives are more important than ever.

SEDIMENTATION, EROSION, INVASIVE SPECIES, SURFACE OR GROUNDWATER POLLUTION, OR CHRONIC FLOODING

Some parts of town roadways, particularly those near more densely populated areas, have experienced higher rates of erosion because of reduced filtration of surface water runoff resulting from large areas of asphalt and other impermeable surfaces. Also, during times of high water and flooding, greater river and stream bank erosion occurs at river and stream bends. Increased erosion in some areas increases sedimentation in downstream and down river areas, leaving silt, sand, and gravel deposited in low lying areas.

High concentrations of both phosphorus and nitrogen compounds act like fertilizer in the river, contributing to the overgrowth of aquatic plants and algae. Organization for the Assabet, Concord, and Sudbury River's (OARS) water quality data supports the conclusion that the mainstem of the Assabet River is nutrient saturated - that neither phosphorus nor nitrogen concentrations limit the growth of aquatic plants in the river.

In the upper sections of the Assabet River (where dilution of WWTP effluent by natural flow is the least) nutrient concentrations are well above the thresholds for eutrophication for both phosphorus and nitrogen species. Dissolved oxygen at sites

all along the river fall below 5.0 mg/L at times during the summer and thus support fish and other aquatic life.

As determined by OARS' water quality testing in September 2017, overall, summer total phosphorus concentrations in the Assabet River mainstem have decreased since WWTP upgrades were completed in 2012, but total floating aquatic plant biomass in the large impoundments has not decreased demonstrably. Summer nitrate concentrations in the upper and middle Assabet River increased from 1993 to 2017 and concentrations in the tributary streams decreased slightly between 2002 and 2017, suggesting that the increase in nitrate concentrations in the Assabet River mainstem can be attributed to wastewater discharges.

Upgrades to the four municipal wastewater treatment plants that discharge to the Assabet River were completed as of the spring of 2012: Hudson in September 2009, Maynard in spring 2011, Marlborough Westerly, and Westborough in the spring of 2012. With the upgrades complete, all the treatment plants meet summer total phosphorus discharge limits of 0.1 mg/L and a winter limit of 1.0 mg/L. The Marlborough Easterly plant, discharging to Hop Brook, finished required upgrades in 2015.

Water quality in the Assabet River headwaters (upstream of the first wastewater treatment plant discharge in Marlborough) and in tributary streams of the watershed is generally better than in the mainstem. Nutrients in the tributaries are mainly from non-point sources such as stormwater runoff from roads and lawns or failing septic systems. (Organization for the Assabet River, 2018)

FORESTRY ISSUES

Landowners of forested areas face staunch opposition when trying to conduct best management forestry practices. The Conservation Commission attempted to conduct management

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on Mt. Pisgah in 1999, but faced such opposition the project stalled. The Commission reviews Forestry Management Plans on a comment-only basis and receives very few – typically less than one per year. However, every Forestry Management Plan that the Commission has received in the past few years was ardently opposed and none of the management proceeded.

The Commission hopes through outreach and education to change the overall perception of forestry management from the perceived view of “deforestation” to healthy management. Although initially disruptive to a neighborhood while forestry occurs, it has been determined repeatedly and overwhelmingly that proper implementation of forest management practices is a net benefit to the forest, habitat and surrounding area.

The town has two fire trucks specially designed to fight forest fires in difficult to access forest areas. Several forests stands, including 100 acres on the Rawstron property are managed through selective harvesting to promote sustainable growth.

ENVIRONMENTAL EQUITY ISSUES

A review of the locations of town recreation and open space and their proximity to residential populations suggests that access is very good. Open space is available for passive recreation in all parts of town, from Mt. Pisgah in the north, to Edmund Hill Woods in the north central part of town, to Westborough Wildlife Management Area/Crane Swamp in the southeast part of town, to the New England Forestry Foundation conservation area in the western part of town. Most active recreation areas are part of school grounds or on major arteries easily accessible by the general public.

The web-based “Livability Index” developed by AARP’s Public Policy Institute is an interactive tool that assesses the livability of communities

throughout the United States. The index leverages more than 50 national data sources and 60 indicators to provide a score relative to seven major categories: Engagement, Environment, Health, Housing, Neighborhood, Opportunity and Transportation. Northborough currently scores 53 points on the index, and is ranked in the top third for two categories (Opportunity and Engagement). While Northborough does not rank in the bottom third for any of the seven categories, the remaining five categories in which the Town scored in the middle-third present opportunities for improvement.

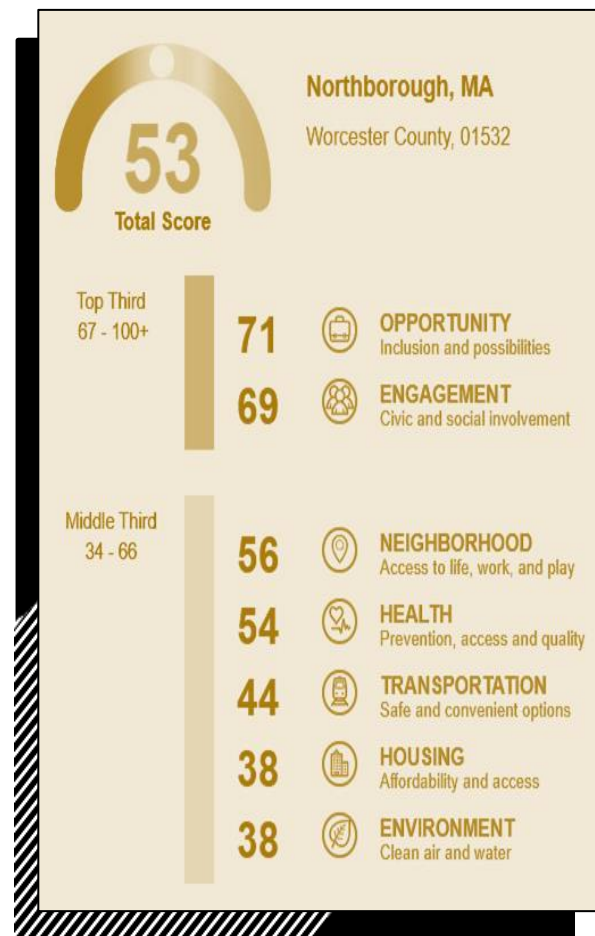


Figure 10. Northborough Livability Score

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According to the Trust for Public Land’s online “ParkServe” database, 50% of Northborough’s residents live within a ten-minute walk of a park.

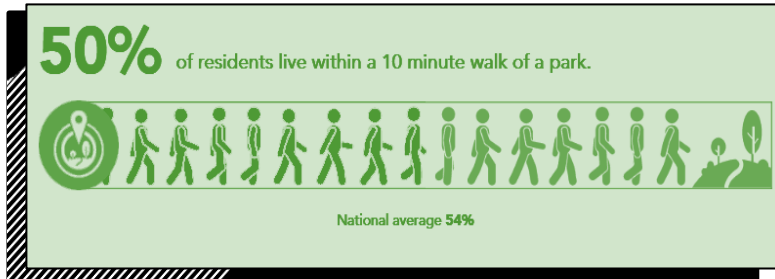


Figure 11. Northborough ParkServe Data

OTHER

As with most New England areas, the presence of mosquitoes can reduce the enjoyment of the outdoors. The Town of Northborough has worked with the Central Massachusetts Mosquito Control Project (CMMCP) to facilitate spraying for the purpose of reducing the mosquito population. CMMCP was created by the Massachusetts State Legislature in 1973, and currently consists of 42 cities and towns in Central Massachusetts, from both Worcester and Middlesex Counties, covering over ~785 square miles. Northborough has been a member community since 1975.

SECTION 5

LAND INVENTORY



A. Overview

Open space makes an important contribution to quality of life. Public recreation areas and open space provide a focus for community life and promote a unique and identifiable community character. Open space can also be an oasis for quiet reflection and can greatly enhance the connection to the natural world. Open space further has economic benefits. Preserving open space sometimes provides a financial benefit to a town in avoided costs of infrastructure and services that would have otherwise been created by development. It protects and enhances the property values of nearby land. Open space can attract businesses, new residents, and public and private investment. Research on this topic suggests that the proximity to recreation and open space is the most important factor in choosing the location of a small business, while quality of life ranks as the third most important factor in choosing location of a large business.

Additionally, conservation land serves environmental functions, providing natural rainwater storage and corridors for wildlife. Even small pockets of green space may serve an important function for migratory birds and butterflies. Open space can also reduce runoff and diminish the frequency and severity of flooding. All forms of open space, and in particular wooded open space, provide carbon sequestration, help to cool the air, and improve air quality.

Lands of conservation and recreation interest in the Town of Northborough include

1. Properties that are permanently protected,
 - a. Publicly owned for purposes of conservation or resource protection
 - b. Privately owned with conservation restrictions or agricultural preservation restrictions
 - c. Land owned by non-profits and land trusts with conservation restrictions or agricultural preservation restrictions
2. Properties with limited protection
 - a. Public ownership that is not for conservation purposes or does not have a conservation restriction provides only limited protection since these generally municipally-owned properties may be sold such as schools or town garages, even town halls.
 - b. Private properties used for forestry, agriculture, or recreation in exchange for special tax status.
3. Privately owned land with special open space or recreational interest such as a rod and gun club or a golf course.

Some of these lands may already be protected open space dedicated to conservation or recreation uses and others will be identified for future acquisition.

PERMANENTLY PROTECTED

Article 97 of the State Constitution provides permanent protection for certain lands acquired for natural resources purposes, meaning “conservation, development and utilization of the agricultural, mineral, forest, water, air and other natural resources.” Lands of this nature are often owned by the municipal conservation commission, recreation commission, water department, or by a state or federal conservation agency (i.e., the Division of Conservation and Recreation or the Division of Fisheries and Wildlife). Private, public, and non-profit conservation and recreation lands may also be protected under Article 97. Removing the permanent protection status of such lands is extremely difficult, as is evidenced by the following required steps:

1. The municipal Conservation Commission or Parks and Recreation Committee must vote that the land in question is surplus to its needs.
2. The removal of permanent protection status must be approved at a Town Meeting/City Council vote and pass by a 2/3 vote.
3. The municipality must file an Environmental Notification Form with the EOEEA’s Massachusetts Environmental Policy Act (MEPA).

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Table 5.1 Article 97 Properties

Protected Under Article 97	
Site Name	Acreage
119 Coburn Street Recreation Area	3.54
119 Colburn Street Conservation Area	9.7
Barefoot Brook Flood Control Site	54.61
Brigham Street Well	40.33
Cedar Hill CR	85.39
Cold Harbor Brook Flood Control Site	240.85
Conservation Area	9.45
Coolidge Circle Conservation Area	9.65
Crawford Street Well	14.69
Davidian Brothers APR	53.83
Davidian Kerop APR	107.19
Eager Woods	4.72
Edmund Hill Woods Conservation Area	70.88
Ellsworth McAfee Park	49.51
Hop Brook Flood Control Site	175.24
Lathorn Farms Conservation Area	2.37
Mount Pisgah Conservation Area	178.02
Mt. Pisgah WCE	18.88
Mt. Pisgah WMA	91.15
Rawstron Woods	22.28
Schunder CR	52.04
Smith Pond Conservation Area	19.41
Sudbury Reservoir Watershed	247.92
Tougas Family Farm APR	19.96
Tougas Farm	49.01
Tyler Flood Control Site	211.3
Wachusett Aqueduct	124.67
Watson Park	33.54
Wayne F. MacCallum WMA	256.88
White Cliffs Conservation Area	1.52
Department of Agriculture Parcel	1.66
Department of Agriculture Parcel	6.53
Department of Agriculture Parcel	5.65
Department of Agriculture Parcel	9.92
Grand Total	2,282.29

LIMITED OR NO PROTECTION

Municipal lands under active use (schools, town halls, highway department facilities, police/fire facilities, etc.) are not generally considered permanently protected. Unprotected land included in this category is owned by the town, other agencies, such as Westborough State Hospital, and the schools. These parcels can be sold for development at the discretion of the owners through a public bid process.

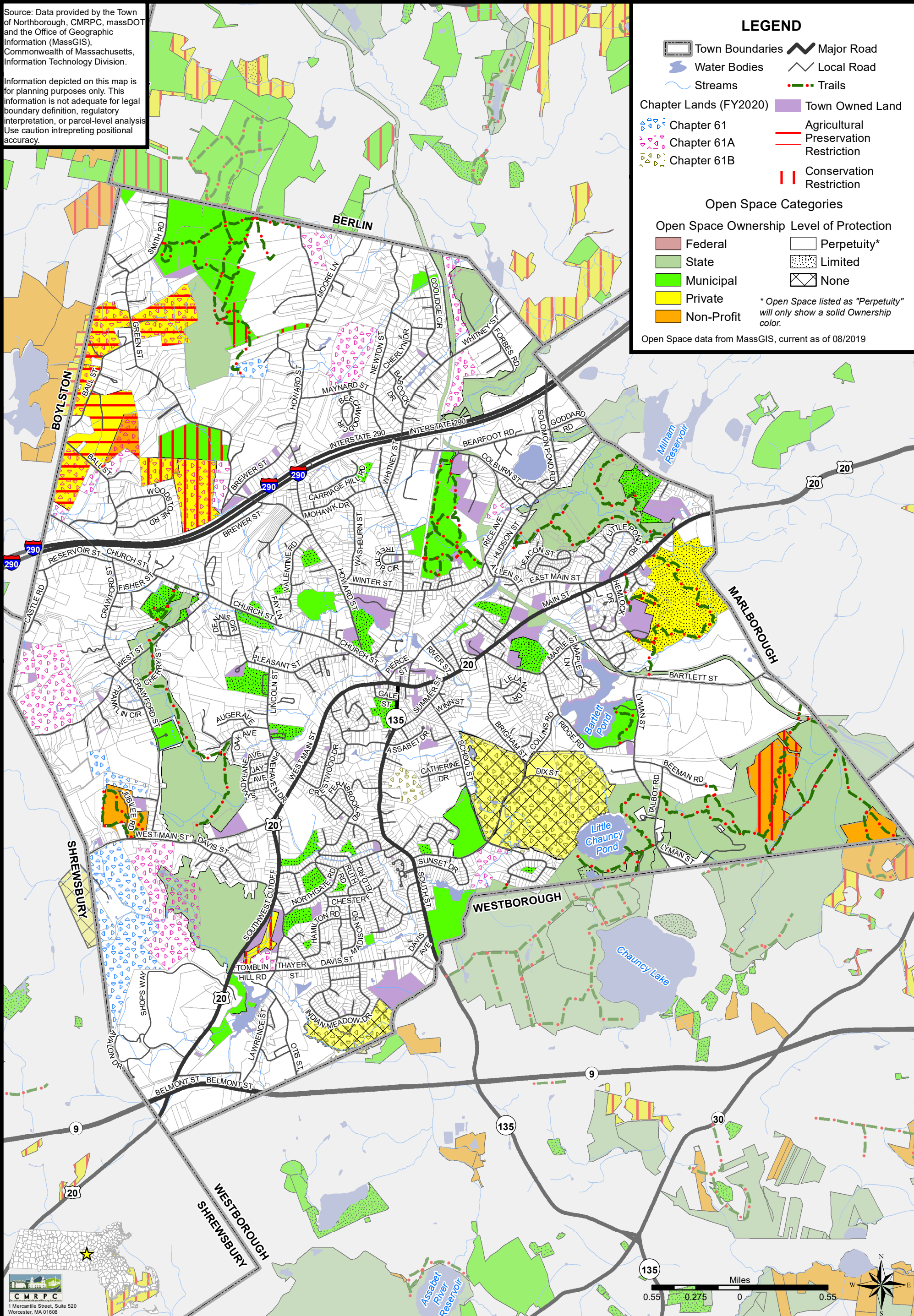
Private lands that are within the State’s special taxation programs (Chapter 61, 61A, and 61B) are actively managed by their owners but only have limited protection. Private owners can manage their land for forestry, agriculture, and/or recreation purposes and receive a benefit of reduced property tax under Chapter 61. Chapter 61 is for forested lands, Chapter 61A for agricultural and horticultural lands, and Chapter 61B is for recreational lands.

OPEN SPACE INVENTORY

OPEN SPACE AND RECREATION PLAN

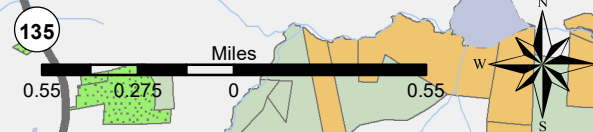
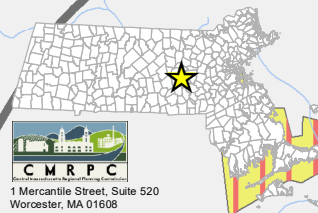
Source: Data provided by the Town of Northborough, CMRPC, massDOT and the Office of Geographic Information (MassGIS), Commonwealth of Massachusetts, Information Technology Division.

Information depicted on this map is for planning purposes only. This information is not adequate for legal boundary definition, regulatory interpretation, or parcel-level analysis. Use caution interpreting positional accuracy.



LEGEND

- Town Boundaries
 - Major Road
 - Water Bodies
 - Local Road
 - Streams
 - Trails
 - Chapter Lands (FY2020)**
 - Chapter 61
 - Chapter 61A
 - Chapter 61B
 - Town Owned Land
 - Agricultural Preservation Restriction
 - Conservation Restriction
 - Open Space Categories**
 - Open Space Ownership Level of Protection**
 - Federal
 - State
 - Municipal
 - Private
 - Non-Profit
 - Perpetuity*
 - Limited
 - None
- * Open Space listed as "Perpetuity" will only show a solid Ownership color.
- Open Space data from MassGIS, current as of 08/2019



Town of Northborough, Massachusetts

► **TOWN OF NORTHBOROUGH OPEN SPACE AND RECREATION PLAN – 2020**

Chapter lands are considered as having limited protection. While these lands provide significant open space in communities while in the program, once the property is sold or the owner chooses not to participate in the special taxation program, there is no longer a commitment to open space management. If the property is put up for sale, the community has the first right to purchase the property or assign its right to a non-profit. The Town should continue to maintain an inventory and prioritize Chapter land and other open space for acquisition or other protection measures. In addition, the Town should ensure that notice is given immediately to

Conservation and Recreation Commissions if a Notice of Sale of a Chapter property is delivered to the Board of Selectmen. A communication system to allow for rapid response should be developed. Working relationships with local non-profits, Sudbury Valley Trustees and New England Forestry Foundation may help acquisitions possible, especially when the Town has limited staff and funds.

The inventories that follow list private, public, non-profit conservation land and recreation areas in Northborough.

B - Private Parcels

PERMANENTLY PROTECTED

Private land is protected if a conservation restriction exists in perpetuity, or an Agricultural Preservation Restriction (APR) has been placed on it. As of 2020, three farms in Northborough have APRs. These farms produce commercial crops on 259 acres. In Northborough, there are seven sites with conservation restrictions in place to protect these lands in perpetuity. These areas protect a total of 260.79 acres.

Table 5.2 Agricultural Preservation Restrictions

Owner Name	Property Address	Acres
BALL HILL REALTY LLC	261 BALL STREET 124 BALL STREET	44
DAVIDIAN REALTY LLC	321 BALL STREET 315 BALLSTREET 0 GREEN STREET 150 BALL STREET	161
TOUGAS MAURICE F & PHYLLIS PT	234 BALL STREET	54

Table 5.3 Conservation Restrictions

Conservation Restriction	
Site	GIS Acres
Cedar Hill CR	85.39
Hop Brook Flood Control Site	13.95
Mount Pisgah Conservation Area	6.59
Mt. Pisgah WCE	18.88
Rawstron CR	61.66
Rawstron Woods	22.28
Schunder CR	52.04
Grand Total	260.79

LIMITED PROTECTION

Owners of private parcels enrolled in Chapter 61 programs, (Chapters 61, 61A and 61B) are granted tax abatement and provide the Town with the right of first refusal should the owner decide to sell the land for development or engage in non-chapter land eligible uses. Chapter 61A parcels (agricultural land) comprise the largest of these holdings and total approximately 484 acres. This is a significant reduction from the 2010 OSRP, when 784 acres

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were held in Chapter 61A (a 38% loss in the last decade). These properties all appear to be privately owned. Land under Chapter 61 (forestry) comprises nearly 210 acres (a slight 1.1% increase from 2010) mostly in the western portion of Town. This area provides a great deal of the rural character of the Town, which is appreciated by the residents. The third category of Chapter land (61B) includes 361 acres (approximately the same as in 2010) in recreational facilities and open space. In addition to the Northcourt Swimming Association, Indian Meadows Golf Course and Juniper Hill Golf Club are included in this program.

Table 5.4 Chapter 61 Summary

Program	Acres
Chapter 61 (Forest)	210
Chapter 61A (Agricultural)	484
Chapter 61B (Recreation)	361
Total	1055

RELEVANT UNPROTECTED

Several large farms are not protected through any means other than difficulty of development and the Wetlands Protection Act. Additional large parcels of land under private ownership have not been included in this section and are only protected by the owner's desire to do so.

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In Table 5.4, we have listed the Owner, Use Code Description/Use (Potential Use), Total Land Area (Acres), Street Address, Level of Protection, Public Access, and Public Assistance for all Chapter 61, Chapter 61A, and Chapter 61B properties. The condition of each parcel has not been determined and a general assessment is suggested. Table 5.4 is complete to the greatest degree possible with information available (based on FY20 Northborough Assessors data).

Table 5.5 Chapter Land Inventory

Owner	Use (Potential Use)	Total Land Area (AC)	Street Address	Level of Protection	Public Access	Public Assistance
Roberto Realty No.1 LLC	Ch.61 Forest	61.7	West Main Street	Limited	No	Yes
Roberto Realty No.1 LLC	Ch.61 Forest	12.17	West Main Street	Limited	No	Yes
Roberto Realty No.1 LLC	Ch.61 Forest	6	West Main Street	Limited	No	Yes
Roberto Realty No.1 LLC	Ch.61 Forest	91.42	West Main Street	Limited	No	Yes
Zecco, Patricia A.	Ch.61 Forest	6.05	Crawford Street	Limited	No	Yes
Zecco, Patricia A.	Ch.61 Forest	11	West Street	Limited	No	Yes
Fournier Peter A. & Nancy A.	Ch.61 Residential/Forest	18.2	Howard Street	Limited	No	Yes
Zecco, Patricia A.	Ch.61 Residential/Forest	6.15	Jubilee Road	Limited	No	Yes
Zecco, Patricia A.	Ch.61 Residential/Forest	6.62	West Street	Limited	No	Yes
Fawcett, Cynthia L.	Ch.61a Field Crops	5	Ball Street	Limited	No	Yes
Anza Santo Trustee	Ch.61a Pasture	15.72	Whitney Street	Limited	No	Yes
Anza Santo Trustee	Ch.61a Pasture	23.77	Whitney Street	Limited	No	Yes
Bennett Guerdon K. & Debra M.	Ch.61a Residential/Agriculture	20.3	Howard Street	Limited	No	Yes
Berberian, Glen & Berberian, Kachadore & Mary	Ch.61a Residential/Agriculture	16	Otis Street	Limited	No	Yes
Bigelow Martha E. & Palmer W. Bigelow Jr. Marita	Ch.61a Residential/Agriculture	88	West Main Street	Limited	No	Yes
Ellsworth, William F	Ch.61a Residential/Agriculture	2.35	School Street	Limited	No	Yes
Ellsworth, William F	Ch.61a Residential/Agriculture	16.55	Brigham Street	Limited	No	Yes

► TOWN OF NORTHBOROUGH OPEN SPACE AND RECREATION PLAN – 2020

Owner	Use Code Description/Use (Potential Use)	Total Land Area (AC)	Street Address	Level of Protection	Public Access	Public Assistance
Fidrych Family Realty LLC	Ch.61a Residential/Agriculture	55	West Street	Limited	No	Yes
Fidrych Jessica L	Ch.61a Residential/Agriculture	10	West Street	Limited	No	Yes
Gillerin, David R. & Jan R.	Ch.61a Residential/Agriculture	57.3	Maynard Street	Limited	No	Yes
Rawstron, William & Ann	Ch.61a Residential/Agriculture	11.4	Mentzer Avenue	Limited	No	Yes
Stone Susanne R Trustee	Ch.61a Residential/Agriculture	7.43	Rice Avenue	Limited	No	Yes
Tougas Maurice F.Trustee & Tougas, Phyllis P.Trustee	Ch.61a Residential/Agriculture	7.9	Ball Street	Limited	No	Yes
Berberian, Glen & Berberian, Kachadore & Mary	Ch.61a Vegetables	12.61	Tomblin Hill Road	Limited	No	Yes
Berberian, Glen & Berberian, Kachadore & Mary	Ch.61a Vegetables	1.37	Otis Street	Limited	No	Yes
Berberian, Glen & Berberian, Kachadore & Mary	Ch.61a Vegetables	0.15	Southwest Cutoff	Limited	No	Yes
Fawcett, Cynthia L.	Ch.61a Vegetables	1.85	Ball Street	Limited	No	Yes
Chandler Emerson H & Karen Lee	Ch.61a Wet-Scrub Lnd	3.4	Whitney Street	Limited	No	Yes
Chandler Emerson H & Karen Lee	Ch.61a Woodlots	6.62	Whitney Street	Limited	No	Yes
Fidrych Family Realty Llc	Ch.61a Woodlots	28.96	Crawford Street	Limited	No	Yes
Fidrych Family Realty Llc	Ch.61a Woodlots	10	West Street	Limited	No	Yes
Rawstron, William & Ann	Ch.61a Woodlots	21.76	Fawcett Orchard Road	Limited	No	Yes
Rawstron, William & Ann	Ch.61a Woodlots	61.66	Green Street	Limited	No	Yes
Rawstron, William & Ann	Ch.61a Woodlots	4.4	Green Street	Limited	No	Yes
Rawstron, William & Ann	Ch.61a Woodlots	1.33	Mentzer Avenue	Limited	No	Yes
EK Parivar LLC	Ch.61b Golf Course	56	Davis Street	Limited	Yes	Yes
EK Parivar LLC	Ch.61b Golf Course	3.64	Indian Meadow Drive	Limited	Yes	Yes
EK Parivar LLC	Ch.61b Golf Course	3.71	Otis Street	Limited	Yes	Yes

► TOWN OF NORTHBOROUGH OPEN SPACE AND RECREATION PLAN – 2020

Owner	Use Code Description/Use (Potential Use)	Total Land Area (AC)	Street Address	Level of Protection	Public Access	Public Assistance
Juniper Hill Golf Course, Inc.	Ch.61b Golf Course	106.31	Brigham Street	Limited	Yes	Yes
Juniper Hill Golf Course, Inc.	Ch.61b Golf Course	34	Dix Street	Limited	Yes	Yes
Juniper Hill Golf Course, Inc.	Ch.61b Golf Course	10.3	Dix Street	Limited	Yes	Yes
Juniper Hill Golf Course, Inc.	Ch.61b Golf Course	84.4	Brigham Street	Limited	Yes	Yes
Juniper Hill Golf Course, Inc.	Ch.61b Golf Course	16	Brigham Street	Limited	Yes	Yes
Juniper Hill Golf Course, Inc.	Ch.61b Golf Course	18.7	Dix Street	Limited	Yes	Yes
Juniper Hill Golf Course, Inc.	Ch.61b Golf Course	8.4	Dix Street	Limited	Yes	Yes
Juniper Hill Golf Course, Inc.	Ch.61b Golf Course	2.34	School Street	Limited	Yes	Yes
Northcourt Swimming Association	Ch.61b Swimming /Swim Club	23.27	South Street	Limited	Yes	Yes

C - Public and Non-Profit Parcels

Open space ownership according to MassGIS data is summarized in the following table.

Table 5.6 Public and Non-profit Ownership Summary

Ownership	Mass GIS Acreage	Percentage
Nonprofit	179.45	5.56%
Municipal	766.64	23.75%
Private	690.35	21.39%
State	1,423.29	44.09%
Other	168.23	5.21%

PERMANENTLY PROTECTED - STATE

The Commonwealth of Massachusetts owns 1,423.3 acres of land in Northborough. These properties in combination are dispersed in and around the Assabet River, Mount Pisgah Conservation Area, Crane Swamp, and the Westborough Wildlife Management Area.

Mount Pisgah Conservation Area is composed of four pieces of conservation land; the two central properties are managed by the conservation commissions in the towns of Berlin and Northborough. To the south is Mass Division of Fisheries and Wildlife property, and to the north is the Devine Conservation Restriction (CR), privately owned property, with a Conservation Restriction retained by Sudbury Valley Trustees and the Town of Berlin. Part of the Berlin town land as well as the entire Devine CR had been in the Devine family for generations and was operated as a farm.

Hiking and mountain biking are two of the primary activities on the extensive trail system through the Mount Pisgah Conservation Area. Hunting is permitted on the Town of Northborough land, by permit only, and on the Massachusetts Fisheries and Wildlife property. (Sudbury Valley Trustees, 2009)

The Westborough Wildlife Management Area, which has substantially more acreage in the adjacent town of Westborough, is 428 acres of gently sloping to nearly level habitat with mixed hardwood and conifer forest interspersed with agricultural and brushy fields some small areas of open marsh. A segment of the Assabet River forms the western boundary of the area, while Chauncy Lake, an excellent warm water fishery, forms a portion of the eastern boundary (including a boat ramp). The area also contains two small ponds, a spring hole and a small seepage brook. The area contains stocked pheasant, deer, grouse, woodcock, cottontail rabbit, raccoon, gray squirrel, aquatic fur-bearers, waterfowl and numerous non-game species.

PERMANENTLY PROTECTED – TOWN-OWNED CONSERVATION AND OPEN SPACE

The Town of Northborough owns the Howard Street Cemetery and the Brigham Street Cemetery totaling 43.91 acres. These areas are managed by the Cemetery Division of the Parks Department.

The Northborough Water Department owns approximately 145 acres of land in the vicinity of drinking water supply wells near Lyman School, Crawford, and Brigham Streets.

The Northborough Conservation Commission owns 539.3 acres of land. Open space areas under the jurisdiction of the Conservation Commission are Edmund Hill Woods, Mount Pisgah Conservation Area (though not entirely owned by the Town), Watson Park, and the Green Street Conservation Area. These passive recreation facilities consist mainly of hiking areas. The Northborough Trails Committee (NTC) maintains the hiking trails in these areas. The NTC works closely with the Conservation Commission when designing trails through wetlands to minimize any environmental issues.

► TOWN OF NORTHBOROUGH OPEN SPACE AND RECREATION PLAN – 2020

Watson Park includes walking paths, a paved parking area with a concrete boat ramp to Bartlett Pond and picnic tables for the use of the public. The *butterfly* garden is situated in Watson Park by the large rock at the entrance.



Figure 13. Watson Park marker.

Photo Source: Jim Stein

The Parks and Recreation Commission has jurisdiction over six public parks in Town. These are Ellsworth/McAfee Park, Assabet Park, both on South Street, Howard Street Recreation Area, Memorial Field, 119 Colburn Street (the Senior Center), an undeveloped area on Valentine Road, and one off Carriage Hill Road.

- Howard Street Recreation Area has a small softball diamond and a tot lot.
- Memorial Field and Casey Field, at 211 East Main Street, includes 3 baseball/softball fields with a concession stand and parking.
- The Senior Center was built on 119 Colburn Street (re-addressed to Bearfoot Road).
- There are three full size basketball courts located at Assabet Park, Ellsworth McAfee, and Town Hall. The two basketball courts located at the parks are outdoor courts and are open to the public at all times. The Town Hall basketball court is inside and is reserved for classes, leagues, and activities.
- There are 8 outdoor tennis courts at the high school and middle school. They are open to the community when school is not in session.
- After four years of planning and development, construction of the Town Common began in 2019. The Town Common offers green space in the downtown area, and features a pergola, seating, and gardens.
- Additionally, there are approximately 20 miles of trails located throughout Northborough.

The Parks Division of The Department of Public Works is responsible for the maintenance and upkeep of a considerable amount of park land and buildings in Northborough. This list includes the following: Town Common, Ellsworth-McAfee Park, Assabet Park, Memorial Field, the Civil War Monument, World War I Monument, Three War Monument, Howard Street Play Area and Field, and the Grounds of the municipal buildings.



Figure 14. Assabet Park Splash Pad
Photo Source: Northborough Recreation

PERMANENTLY PROTECTED NON-PROFIT

The New England Forestry Foundation Inc. (NEFF) owns approximately 32 acres of permanently protected land in the western section of town (West Main Street). The Carlstrom 2 Forest (31 acres) was donated in 1983 by Mr. Carl Carlstrom in memory of his wife. There is 1 loop trail that is approximately 1.1 miles long.

In addition, Mrs. Gertude Falby of Northborough gave NEFF protected land in 1980. This forest of hardwood stands (18 acres in Northborough and 194 acres in Boylston) with some mature pine is exceptionally beautiful. A number of small brooks run through the forest leading to a spectacularly clear pond. A walking trail leaves Rocky Pond road on the south end of the forest and traverses the forest to a swimming and picnic spot on the pond and then continues north to Green Street. There is also a NEFF kiosk and trailhead on Green Street just over the

► TOWN OF NORTHBOROUGH OPEN SPACE AND RECREATION PLAN – 2020

Northborough Boylston town line, which also leads to Rocky Pond.

Sudbury Valley Trustees (SVT) owns 131.35 acres, some of which are located in Crane Swamp Conservation Area. The Crane Swamp Conservation Area includes 2,225 acres of open space straddling the borders of Northborough, Westborough, Southborough, and Marlborough. The centerpiece is a high quality 400-acre red maple swamp. The swamp is surrounded by a complex of open fields, wet meadows, ponds, pine plantations, and oak-pine forests, with Cedar Hill to the west and Walnut Hill to the northeast. Such a diverse, high quality and expansive conservation area is a unique treasure in Metrowest Boston.

The Crane Swamp properties are owned by a variety of Massachusetts state agencies as well as SVT. SVT protected 101 acres of Sawink Farm Reservation at the border of Northborough and Westborough in 1992 and the 88-acre drumlin of Cedar Hill in Northborough in 1993. The Department of Conservation and Recreation (DCR) owns Crane Swamp, Little Crane Swamp, and much of Walnut Hill, just north of Sawink Farm Reservation. Westborough State Hospital land extends from Lyman Street to Chauncy Pond, and the Massachusetts Division of Fisheries and Wildlife owns land which runs west to the Assabet River. Furthermore, the protected watershed helps to preserve the public water supply (emergency backup water supplies for the Massachusetts Water Resources Authority (MWRA), not day to day water) for 3 million people.

The NTC maintains an extensive trail system in this area in cooperation with those agencies and SVT.

LIMITED PROTECTION – STATE

The former Westborough State Hospital (WSH) property was owned and managed by the Massachusetts Department of Mental Health and includes many acres of beautiful open space. The town of Westborough purchased most of the

hospital site from the state for \$2.2 million in 2014. The state retained 12 acres where it operates the Zara Cisco Brough Center and an adjacent six acres for Allen Hall. The Sharp Building was also retained for use by the Department of Developmental Services.

Westborough received three bids in 2016 and awarded a bid for redevelopment to Pulte Homes. The company intends to construct 700 residential units for those aged 55 and older.

The NTC has some trails on WSH land. The Town of Westborough's Charm Bracelet Trail crosses the WSH land connecting at the Little Chauncy fisherman's access road.

LIMITED PROTECTION - MUNICIPAL

School facilities are a principal location for recreational facilities in many municipalities. They are however seldom permanently protected. The schools in Northborough have a total of 278.53 acres with buildings and grounds. The Algonquin Regional High School serves both Southborough and Northborough residents and the four elementary schools and one middle school serve just Northborough residents. They include the following:

- Algonquin Regional High School, at 79 Bartlett Street, has 4 baseball/softball diamonds of various sizes, 4 or 5 multipurpose fields, and a football field with quarter mile track and field facilities.
- Lincoln Street School, located at 76 Lincoln Street, serves K-5th grades and has a small baseball/softball diamond and a gymnasium.
- Melican Middle School, located at 145 Lincoln Street, has 2 baseball/softball fields, 6 tennis courts, and a multi-purpose field.
- Peaslee Elementary School, at 31 Maple Street, has a baseball/softball field and one other multi-purpose field.
- Proctor Elementary School is located at 26 Jefferson Road. In June 2009 a new playground was purchased and installed next to the existing soccer fields.
- Zeh Elementary School, located at 33 Howard Street, has an outdoor basketball court, and a baseball/softball diamond.

OTHER RELEVANT AREAS

Including approximately 17 acres of the old landfill, roughly 53 open space acres are listed as owned by the Town of Northborough, with little or no indication of use. These properties should be identified and assessed for their potential use as open space or recreation purposes.

Table 5.7 – Town-owned open space and recreation parcel inventory

Street Address	Site Name	Fee Owner	Size (Acres)	Managing Agency	State Use Code	Use Code Description	Primary Purpose /Current Use	Public Access	Level of Protection	Condition Well maintained; Good; Poor; Not maintained	Rec Potential	Accessibility	Zoning	Grant Program	Deed Restrictions	Map	Parcel
0 Bartlett Pond	Bartlett Pond	Town Of Northboro Con Com	40.91	Town Of Northboro Con Com	932	Bartlett Pond	Fishing, Bird Watching, Hiking	Yes	Perm.	WM	Passive Rec	No	RC	No	Article 97	65	99
0 Blake St.		Town Of Northboro Water Dept.	0.45	Town Of Northboro Water Dept.	903	Water Dept/Sewage Disposal	Water Supply protection	No	Perm.	WM	Water Supply protection	No	BA	No	Water Dept Land	63	77
0 Boundary St	Sewer Dept Land	Town Of Northboro Water Dept.	32.05	Town Of Northboro Water Dept.	938	Water/Sewer Dept	Leased farmland	Yes	Perm.	WM	Passive Rec	No	RC	No	Water Dept Land	31	9
0 Brigham St.	Brigham St Burial Ground	Town Of Northboro DPW/Park Dept	3.29	Town Of Northboro DPW/Park Dept	939	Cemetery	Cemetery, Walking, Bbird Watching	Yes	Perm.	WM	Cemetery/P assive Rec.	Yes	RC	No	Yes	83	109
0 Church St.		Town Of Northboro Con Com	4.1	Conservation Comm	932	Unmaintained conservation area	None	Yes	Perm.	NM	Passive Rec	No	RC	No	Article 97	55	50
0 Church St.		Town Of Northboro Con Com	3.43	Conservation Comm	932	Unmaintained conservation area	None	Yes	Perm.	NM	Passive Rec	No	RC	No	Article 97	55	49
0 Church St.	Cold Harbor Trails	Town Of Northboro Con Com	20.95	Conservation Comm	932	Cold Harbor Trails	Dog Walking, Hiking	Yes	Perm.	WM	Passive Rec	No	RB	No	Article 97	43	13
0 Colburn St	Edmund Hill Trailhead	Town Of Northboro BOS	11.45	DPW & Con Com	938	Edmund Hill Woods Conservation Area	Hiking, bicycling, Snowshoeing, XC Skiing	Yes	Limited	WM	Passive Rec	No	RC	No	None	35	10
0 Coolidge Circle		Town Of Northboro Con Com	1.04	Conservation Comm	932	Subdiv. conservation area	None	Yes	Perm.	NM	None	No	RB	No	Article 97	7	19
0 Coolidge Circle		Town Of Northboro Con Com	5.33	Conservation Comm	932	Subdiv. conservation area	None	Yes	Perm.	NM	None	No	RA	No	Article 97	7	20
0 Coolidge Circle		Town Of Northboro Con Com	2.66	Conservation Comm	932	Subdiv. conservation area	None	Yes	Perm.	NM	None	No	RB	No	Article 97	7	28
0 Coolidge Circle		Town Of Northboro Con Com	0.73	Conservation Comm	932	Subdiv. conservation area	Bird Watching	Yes	Perm.	NM	Passive Rec	No	RB	No	Article 97	7	30

Street Address	Site Name	Fee Owner	Size (Acres)	Managing Agency	State Use Code	Use Code Description	Primary Purpose /Current Use	Public Access	Level of Protection	Condition <small>Well maintained; Good; Poor; Not maintained</small>	Rec Potential	Accessibility	Zoning	Grant Program	Deed Restrictions	Map	Parcel
0 Davis St	Old Landfill	Town Of Northboro BOS	12.72	Town Of Northboro DPW	930	Old Landfill	None	No	Limited	WM	Passive Rec after cleanup	No	RC	No	Unknown	100	7
0 Green Street	Green St Cons Land	Town Of Northboro Con Com	55.61	Conservation Comm	932	Green St Conservation Area	Hiking, Mountain Biking, Snowshoeing, XC Skiing, Dog Walking, Bird Watching	Yes	Perm.	G.	Passive Rec.	No	RA	CPC	Conservation Rest.	26	2
0 Hemlock Drive		Town Of Northboro BOS	0.03	Town Of Northboro BOS	930	Open Space in Subdivision	None	Yes	Limited	NM	Passive Rec	No	RC	No	Open Space	52	81
0 Howard St.	Mt. Pisgah	Town Of Northboro Con Com	18.9	Conservation Comm	932	Mt. Pisgah Conservation Area	Hiking, Mountain Biking, Snowshoeing, XC Skiing, Dog Walking, Bird Watching	Yes	Perm.	WM	Passive Rec	No	RA	No	Conservation Rest.	12	2
0 Howard St.	Mt. Pisgah	Town Of Northboro Con Com	4.02	Conservation Comm	932	Mt. Pisgah Conservation Area	Hiking, Mountain Biking, Snowshoeing, XC Skiing, Dog Walking, Bird Watching	Yes	Perm.	G	Passive Rec.	No.	RA	Landscape Partnership Grant	Conservation Rest.	4	3
0 Juniper Brook Rd.		Town Of Northboro DPW/Park Dept	1.71	Town Of Northboro DPW/Park Dept	938	Park Dept., Subdiv. conservation area	Bird Watching	Yes	Limited	G	Passive Rec.	No	RC	No	PB Decision	92	12
0 Lincoln St.	School, Lincoln St.	Town Of Northboro School Dept.	0.46	Nbro/Sbro Reg'l Sch Dist	934	School, Lincoln St.	Sports Fields, playground	Yes	Limited	WM	Sports Fields, playground	Yes	RC	Yes	Yes	62	48

Street Address	Site Name	Fee Owner	Size (Acres)	Managing Agency	State Use Code	Use Code Description	Primary Purpose /Current Use	Public Access	Level of Protection	Condition <small>Well maintained; Good; Poor; Not maintained</small>	Rec Potential	Accessibility	Zoning	Grant Program	Deed Restrictions	Map	Parcel
0 Main St	Sewer Dept Land	Town Of Northboro Water Dept.	6.39	Town Of Northboro Water Dept.	938	Water/Sewer Dept	Leased farmland	Yes	Perm.	WM	Passive Rec	No	RC	No	Water Dept Land	33	54
0 Main St.	ARHS Land	Northboro & Southboro Reg. School District	148.8	Nbro/Sbro Reg'l Sch Dist	933	Regional High School	High School Athletic Fields, Courts Trail Network	Yes	Limited	WM	High School Athletic Fields, Courts Trail Network	Some	IA	No	None	33	48
0 Overlock Drive	Edmund Hill	Town Of Northboro Con Com	4.8	Conservation Comm	932	Edmund Hill Woods Conservation Area	Hiking, Snowshoeing, XC Skiing, Dog Walking, Bird Watching	Yes	Perm.	G	Passive Rec	No	RC	No	Article 97	46	52
0 Pleasant St.		Town Of Northboro Con Com	4.95	Conservation Comm	932	Unmaintained conservation area	None	Yes	Perm.	NM	Passive Rec	No	RC	No	Article 97	56	58
0 RailRoad Drive	Assabet River	Town Of Northboro Con Com	4.5	Conservation Comm	932	Conservation Com Easement	River	Yes	Perm.	G	Passive Rec	No	RC	Yes	Article 97	72	10
0 Shadylane Ave.		Town Of Northboro DPW	1.05	Town Of Northboro DPW	903	Park Dept., Subdiv. conservation area	Drainage	No	Limited	G	Passive Rec.	No	RC	Yes	PB Decision	76	13
0 Smith Pond		Town Of Northboro Con Com	1	Conservation Comm	932	Island	None	Yes	Perm.	NM	Passive Rec	No	RC	No	Article 97	106	15
0 Smith Rd.	Mt. Pisgah	Town Of Northboro Con Com	26.25	Conservation Comm	932	Mt. Pisgah Conservation Area	Hiking, Mountain Biking, Snowshoeing, XC Skiing, Dog Walking, Bird Watching	Yes	Perm.	WM	Passive Rec	No	RA	No	Article 97	3	1

Street Address	Site Name	Fee Owner	Size (Acres)	Managing Agency	State Use Code	Use Code Description	Primary Purpose /Current Use	Public Access	Level of Protection	Condition <small>Well maintained; Good; Poor; Not maintained</small>	Rec Potential	Accessibility	Zoning	Grant Program	Deed Restrictions	Map	Parcel
0 Smith Rd.	Mt. Pisgah Trailhead	Town Of Northboro Con Com	52.32	Conservation Comm	932	Mt. Pisgah Conservation Area	Hiking, Mountain Biking, Snowshoeing, XC Skiing, Dog Walking, Bird Watching	Yes	Perm.	WM	Passive Rec	No	RA	No	Article 97	3	2
0 Smith Rd.	Mt. Pisgah	Town Of Northboro Con Com	53	Conservation Comm	932	Mt. Pisgah Conservation Area	Hiking, Mountain Biking, Snowshoeing, XC Skiing, Dog Walking, Bird Watching	Yes	Perm.	WM	Passive Rec	No	RA	No	Article 97	3	5
0 Smith Rd.	Mt. Pisgah	Town Of Northboro Con Com	39.8	Conservation Comm	932	Mt. Pisgah Conservation Area	Hiking, Mountain Biking, Snowshoeing, XC Skiing, Dog Walking, Bird Watching	Yes	Perm.	WM	Passive Rec	No	RA	No	Article 97	9	1
0 Smith Rd.	Mt. Pisgah	Town Of Northboro Con Com	9.2	Conservation Comm	932	Mt. Pisgah Conservation Area	Hiking, Mountain Biking, Snowshoeing, XC Skiing, Dog Walking, Bird Watching	Yes	Perm.	WM	Passive Rec	No	RA	No	Article 97	9	2
0 Smith Road		Town Of Northboro Con Com	4.74	Conservation Comm	932	NearMt. Pisgah Conservation Area	Vacant Land	Yes	Perm.	NM	Passive Rec.	No	RA	Landscape Partnership Grant	Conservation Rest.	2	2
0 Southwest Cutoff		Town Of Northboro Con Com	8.95	Conservation Comm	932	Conservation Purposes and trail easement	Bird Watching, Walking	Yes	Perm.	NM	Passive Rec	No	I	No	Article 97	106	16

Street Address	Site Name	Fee Owner	Size (Acres)	Managing Agency	State Use Code	Use Code Description	Primary Purpose /Current Use	Public Access	Level of Protection	Condition <small>Well maintained; Good; Poor; Not maintained</small>	Rec Potential	Accessibility	Zoning	Grant Program	Deed Restrictions	Map	Parcel
0 Southwest Cutoff		Town Of Northboro BOS	5.06	Town Of Northboro DPW	930	For Reservoir Purposes	Bird Watching	Yes	Limited	WM	Passive Rec	No	RC	No	Unknown	99	3
0 Southwest Cutoff	Old Landfill	Town Of Northboro BOS	4.65	Town Of Northboro DPW	930	Old Landfill	None	No	Limited	WM	None	No	RC	No	Unknown	100	9
0 Southwest Cutoff		Town Of Northboro BOS	0.62	Town Of Northboro BOS	930	Vacant	None	No	Limited	NM	None	No	I	No	Unknown	109	10
0 Stone Dr		Town Of Northboro BOS	0.92	Town Of Northboro DPW	938	Subdiv. conservation area	None	Yes	Perm.	NM	Passive Rec	No	RB	No	None	14	56
0 Stratton Way		Town Of Northboro Con Com	1.54	Town Of Northboro Con Com	932	Open Space in Subdivision	None	Yes	Perm.	NM	Passive Rec.	No	RC	No	Article 97	53	83
0 Valentine Rd.		Town Of Northboro Con Com	6.5	Conservation Comm	932	Subdiv. conservation area	Drainage	Yes	Perm.	NM	None	No	RB	No	Article 97	44	57
0 West St	Cold Harbor Trails	Town Of Northboro Con Com	6.77	Conservation Comm	932	Cold Harbor Trails	Hiking, Snowshoeing, XC Skiing, Dog Walking, Bird Watching	Yes	Perm.	WM	Passive Rec	No	RB	No	Article 97	56	52
0 Whitney St.	Edmund Hill	Town Of Northboro Con Com	52.8	Conservation Comm	932	Edmund Hill Woods Conservation Area	Hiking, Mountain Biking, Snowshoeing, XC Skiing, Dog Walking, Bird Watching	Yes	Perm.	G	Passive Rec	No	RC	No	Article 97	36	31
0 Whitney St.	Edmund Hill	Town Of Northboro Con Com	9.4	Conservation Comm	932	Edmund Hill Woods Conservation Area	Hiking, Mountain Biking, Snowshoeing, XC Skiing, Dog Walking, Bird Watching	Yes	Perm.	G	Passive Rec	No	RC	No	Article 97	36	3

Street Address	Site Name	Fee Owner	Size (Acres)	Managing Agency	State Use Code	Use Code Description	Primary Purpose /Current Use	Public Access	Level of Protection	Condition <small>Well maintained; Good; Poor; Not maintained</small>	Rec Potential	Accessibility	Zoning	Grant Program	Deed Restrictions	Map	Parcel
0 Whitney St.	Leased Farm Land	Town Of Northboro Con Com	9.4	Town Of Northboro Con Com	932	Leased Farm Land	Nursery	No	Perm.	WM	Passive Rec	No	RC	No	Article 97	36	3
1 Hemlock Drive		Town Of Northboro BOS	0.82	Town Of Northboro BOS	930	Open Space in Subdivision	None	Yes	Limited	NM	Passive Rec	No	RC	No	Open Space	52	57
108 Crawford St.	Crawford St Well	Town Of Northboro Water Dept.	13.24	Town Of Northboro Water Dept.	971	Water Dept. Well Site	Water Supply protection	No	Perm.	WM	Water Supply protection	No	RB	No	Water Dept Land	77	16
121 Rice Ave.	Edmund Hill Trailhead	Town Of Northboro Con Com	8	Conservation Comm	932	Edmund Hill Woods Conservation Area	Hiking, Mountain Biking, Snowshoeing, XC Skiing, Dog Walking, Bird Watching	Yes	Perm.	G	Passive Rec	No	RC	No	Article 97	46	76
13 Hemlock Drive		Town Of Northboro BOS	0.31	Town Of Northboro BOS	930	Open Space in Subdivision	None	Yes	Limited	NM	Passive Rec	No	RC	No	Open Space	52	67
145 Lincoln St.	School, Middle	Town Of Northboro School Dept.	21	Nbro/Sbro Reg'l Sch Dist	934	School, Middle	Sports Fields, playground	Yes	Limited	WM	Sports Fields, playground	Yes	RB	No	Yes	62	9
16 Edmunds Way	Edmund Hill Trailhead	Town Of Northboro Water Dept.	0.38	Town Of Northboro DPW	903	Water Dept.	Water Supply	No	Perm.	WM	None	No	RC	No	Unknown	35	11
16 Smith Rd.	Mt. Pisgah	Town Of Northboro Con Com	5.79	Conservation Comm	932	Mt. Pisgah Conservation Area	Hiking, Mountain Biking, Snowshoeing, XC Skiing, Dog Walking, Bird Watching	Yes	Perm.	WM	Passive Rec	No	RA	No	Article 97	10	24

Street Address	Site Name	Fee Owner	Size (Acres)	Managing Agency	State Use Code	Use Code Description	Primary Purpose /Current Use	Public Access	Level of Protection	Condition <small>Well maintained; Good; Poor; Not maintained</small>	Rec Potential	Accessibility	Zoning	Grant Program	Deed Restrictions	Map	Parcel
167 Bearfoot Rd.		Town Of Northboro BOS	2.48	Town Of Northboro DPW	930	Former Shooting Range	Hiking, Mountain Biking, Snowshoeing, XC Skiing, Dog Walking, Bird Watching	Yes	Limited	WM	Passive Rec	No	I	Yes	None	28	64
167 Main Street	White Cliffs	Town Of Northboro BOS	6.5	Town of Northborough DPW	931	White Cliffs	Vacant Historic Landmark	No	Perm.	P	Rec or Commercial	No	RC	CPC	Yes	53	73
17 Howard St.	Howard St Field	Town Of Northboro DPW/Park Dept	2.02	Town Of Northboro DPW/Park Dept	931	Howard St. Rec. Area	Baseball Field	Yes	Limited	WM	Baseball Field,	Unknown	GR	No	Unknown	54	5
195 Southwest Cutoff		Town Of Northboro Con Com	11.3	Conservation Comm	932	Unmaintained conservation area	Trail Easement	Yes	Perm.	NM	Passive Rec	No	RC	No	Article 97	106	18
2 Edmunds Way	Edmund Hill Trailhead	Town Of Northboro BOS	1.73	DPW & Con Com	938	Edmund Hill Woods Conservation Area	Hiking, Mountain Biking, Snowshoeing, XC Skiing, Dog Walking, Bird Watching	Yes	Limited	WM	Passive Rec	No	RC	No	None	29	26
200 School St.	Water Barn	Town Of Northboro Water Dept.	40.87	Town Of Northboro Water Dept.	971	Water Dept.	Water Supply protection	No	Perm.	WM	Water Supply protection	No	RC	No	Water Dept Land	84	21
21 Hemlock Drive		Town Of Northboro BOS	0.46	Town Of Northboro BOS	930	Open Space in Subdivision	None	Yes	Limited	NM	Passive Rec	No	RC	No	Open Space	52	71
211 Main St	Casey Field/PD	Town Of Northboro DPW/Park Dept/Police	4.82	Town of Northborough DPW & Police	935	Casey Field & Police Station	Athletic/Police Station	Yes	Limited	WM	Baseball Field,	Yes	BE	No	Unknown	53	107
23 Overlock Drive	Edmund Hill	Town Of Northboro Con Com	2.42	Conservation Comm	932	Edmund Hill Woods Conservation Area	Bird Watching, Walking, Hiking	Yes	Perm.	G	Passive Rec	No	RC	No	Article 97	46	55

Street Address	Site Name	Fee Owner	Size (Acres)	Managing Agency	State Use Code	Use Code Description	Primary Purpose /Current Use	Public Access	Level of Protection	Condition Well maintained; Good; Poor; Not maintained	Rec Potential	Accessibility	Zoning	Grant Program	Deed Restrictions	Map	Parcel
25 Gale St.	Water Tank	Town Of Northboro Water Dept.	3.81	Town Of Northboro Water Dept.	971	Water Dept.	Water Supply	No	Perm.	G	None	No	GR	No	Water Dept Land	63	3
30 Howard St.	Howard St Cemetary	Town Of Northboro DPW/Park Dept	18.65	Town Of Northboro DPW/Park Dept	939	Cemetery	Cemetery, Walking, Bird Watching	Yes	Perm.	WM	Cemetery/Passive Rec.	Yes	GR	No	Yes	54	8
30 Treetop Circle		Town Of Northboro BOS	0.53	Conservation Comm	930	Subdiv. conservation area	Bird Watching, Walking	Yes	Perm.	NM	Passive Rec.	No	RC	No	PB Decision	45	87
31 Maple St & 190 Main St'.	School, Peaslee	Town Of Northboro School Dept.	34.29	Nbro/Sbro Reg'l Sch Dist	934	School, Peaslee	Sports Fields, Playground. DPW Barn	Yes	Limited	WM	Sports Fields, playground	Yes	RC	No	Yes	53	136
33 Howard St.	School, Zeh	Town Of Northboro School Dept.	4.39	Nbro/Sbro Reg'l Sch Dist	934	School, Zeh	Sports Fields, Playground	Yes	Limited	WM	Sports Fields, playground	Yes	GR	No	Yes	54	6
34 South St.	Assabet Park	Town Of Northboro DPW/Park Dept	18.79	Town Of Northboro DPW/Park Dept	931	Assabet Park	Sports Fields, Splash Pad	Yes	Limited	WM	Active Rec.	Yes	GR	CPC	Yes	63	2
350 West Main St.		Town Of Northboro Con Com	17.51	Conservation Comm	932	Conservation Commission	Hiking, Dog Walking	Yes	Perm.	G	Passive Rec	No	BW	No	Article 97	81	10
363 South St.	Ellsworth McAfee Park	T-town Of Northboro DPW/Park Dept	50.39	T-town Of Northboro DPW/Park Dept	931	Ellsworth McAfee with Conservation area as a part of a Subdivision ?	Sports Fields, Walking	Yes	Limited	WM	Sports fields Passive Rec	Some	RC	No	Unknown	101	117
40 Lyman St.	Watson Park/Lyman St Well	Water Dept/Con Com	35.05	Water Dept/Con Com	971	Water Dept.	Water Supply protection	No	Perm.	WM	Water Supply protection	No	RC	No	Article 97/Well Site	66	1
43 East Main St.	Memorial Field	Town Of Northboro DPW/Park Dept	9.16	Town Of Northboro DPW/Park Dept	931	Memorial Field Concession	Athletic Field concession	Yes	Limited	WM	Baseball Field,	Yes	RC	Yes	Unknown	53	106

Street Address	Site Name	Fee Owner	Size (Acres)	Managing Agency	State Use Code	Use Code Description	Primary Purpose /Current Use	Public Access	Level of Protection	Condition <small>Well maintained; Good; Poor; Not maintained</small>	Rec Potential	Accessibility	Zoning	Grant Program	Deed Restrictions	Map	Parcel
445 Howard St	Mt. Pisgah	Town Of Northboro Con Com	6.65	Conservation Comm	932	Mt. Pisgah Conservation Area	Bird Watching, Hiking, Walking	Yes	Perm.	G.	Passive Rec.	No	RA	Landscape Partnership Grant	Conservation Rest.	13	23
45 West Main St.	Town Common	Town Of Northboro DPW/Park Dept	1.35	Town Of Northboro DPW/Park Dept	931	Park Dept., Subdiv. conservation area	Town Common, Memorials, Walking	Yes	Limited	G	Passive Rec.	Yes	DB	Yes	Yes	63	158
455 Main St	Sewer Dept Land	Town Of Northboro Water Dept.	19.06	Town Of Northboro Water Dept.	938	Water/Sewer Dept	Leased farmland	Yes	Perm.	WM	Passive Rec	No	RC	No	Water Dept Land	33	19
57 Southwest Cutoff		Town Of Northboro DPW	8.85	Town Of Northboro DPW	930	Drain & utility	Drainage	No	Limited	G	Passive Rec	No	RC	No	Drain & Utility Ease'ts	95	14
60 Howard St.	Howard St Cemetary	Town Of Northboro DPW/Park Dept	21.87	Town Of Northboro DPW/Park Dept	939	Cemetery	Cemetery, Walking, Bird Watching.	Yes	Perm.	WM	Cemetery/Passive Rec.	Yes	RC	No	Yes	45	1
615 Howard St REAR	Mt. Pisgah	Town Of Northboro Con Com	19.2	Conservation Comm	932	Mt. Pisgah Conservation Area	Hiking, Mountain Biking, Snowshoeing, XC Skiing, Dog Walking, Bird Watching	Yes	Perm.	G	Passive Rec.	No.	RA	CPC	Conservation Rest.	8	37
70 Valentine Rd.	Community Garden	Town Of Northboro DPW/Park Dept	3.47	Town Of Northboro DPW/Park Dept	903	Park Dept., Subdiv. conservation area	Community Garden, Bird Watching, Walking	Yes	Limited	G	Passive Rec.	No	RB	Yes	Unknown	44	14
76 Lincoln St.	School, Lincoln St.	Town Of Northboro School Dept.	10.6	Nbro/Sbro Reg'l Sch Dist	934	School, Lincoln St.	Sports Fields, playground	Yes	Limited	WM	Sports Fields, playground	Yes	RC	Yes	Yes	75	4
79 Bartlett St.	Algonquin Regional High School	Northboro & Southboro Reg. School District	42.94	Nbro/Sbro Reg'l Sch Dist	934	Regional High School	Athletic Fields, Courts Trail Network	Yes	Limited	WM	Athletic Fields, Courts Trail Network	Yes	RC	No	None	52	88

Street Address	Site Name	Fee Owner	Size (Acres)	Managing Agency	State Use Code	Use Code Description	Primary Purpose /Current Use	Public Access	Level of Protection	Condition <small>Well maintained; Good; Poor; Not maintained</small>	Rec Potential	Accessibility	Zoning	Grant Program	Deed Restrictions	Map	Parcel
87 Howard St.	Howard St Well site	Town Of Northboro Water Dept.	18.03	Town Of Northboro Water Dept.	971	Water Dept. Well Site	Water Supply protection	No	Perm.	WM	None	No	RC	No	Water Dept Land	44	4
88 Little Pond Road		Town Of Northboro BOS	3.26	Town Of Northboro BOS	930	Subdiv. conservation area	Vacant Land	Yes	Perm.	NM	Passive Rec.	No	RC	No	PB Decision	47	66
Jefferson Rd.	School, Fannie E. Proctor	Town Of Northboro School Dept.	12.1	Nbro/Sbro Reg'l Sch Dist	934	School, Fannie E. Proctor	Sports Fields, playground	Yes	Limited	WM	Sports Fields, playground	Yes	RC	No	Yes	95	63

SECTION 6

COMMUNITY VISION



A - Description of Process

In 2019, the Town of Northborough contracted with the Central Massachusetts Regional Planning Commission (CMRPC) to assist in the preparation of an update to its 2010 Open Space and Recreational Plan (OSRP). In 2019 and 2020, CMRPC, the Town's Open Space Committee, and Planning Department developed a survey to gather resident input regarding open space and recreation in Northborough. The survey was based on the model set up in the Division Conservation Services (DCS) Open Space Planners Workbook. The survey was developed and summarized using the internet application SurveyMonkey ©. The availability of the survey and hyperlinks were advertised as a banner item on the Town main page, Conservation Commission, Open Space Committee and Trails Committee websites, and were sent via email to Town boards and commissions and other interested parties.

For both the survey and the public forum, flyers were distributed with the link and QR code for the survey at the following locations:

- Town Hall (outside planning office, in Town Clerk's office, in the hall outside the Town Admin office)
- Library bulletin board
- Lowe's Variety Shop (small grocery and butcher in Town)
- Senior Center
- All trail head kiosks (Pisgah, Carney, Edmund Hill (There are two: Rice Ave and behind Senior Center) and SUASCO/Hudson Street)

Announcements of the survey were included in multiple list serves. Additionally, the OSC posted survey links to the Northborough Trails Committee Facebook page (882 followers), the Recreation Facebook page (1,582 followers) and other local Facebook groups.

Finally, the survey was made available in hard copy.

The online survey was available from January 21, 2020 to March 20, 2020. Fifteen hard

copies were submitted. 495 surveys were received. Tabulated results were then reviewed and discussed by the full Committee, and the resulting information was integrated into the goals, objectives, and action plan for implementation. A summary of the survey results is attached as Appendix D.

The Committee initially planned to hold a Public Forum in March 2020 to discuss the draft plan, the draft survey results, draft goals, objectives, and action plan. However, due to the Covid-19 pandemic, meetings larger than 10 and later 25 individuals were prohibited by Executive Order. When it became clear in July that larger in-person gatherings were unlikely to be feasible in the near future, the Town made the decision to hold a virtual public forum using the Zoom platform. The virtual public forum was held on September 16, 2020.

Ahead of the forum, the event was advertised online and flyers were distributed at the locations noticed previously. Further, a mail blast was sent to 2,718 residents' emails via the Recreation Department's list and the e-flyer was shared on the Northborough Trails Committee Facebook page.

There were three main elements of the forum:

1. An introduction from the Open Space Committee on the purpose of the OSRP and a brief description of the process to date.
2. A slide show presentation on the draft plan and process by Sarah Adams of CMRPC – this provided an overview of the OSRP process, a description of the draft goals, a summary of the survey responses, the phases of the plan have been completed thus far and what still remains to be completed. That presentation can be viewed [HERE](#).

Following the presentation, participants provided comments and feedback, and asked questions about the plan, the survey

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results, and open space and recreation resources.

3. A group discussion of three topics:

- Indoor and outdoor recreational facilities – what is needed or needs to be improved
- Open spaces for preservation/conservation, scenic areas and routes – what is needed, and what parcels of land should be protected
- Connectivity and passive recreation – what is needed to improve and expand trails and connectivity.

Approximately 12 members of the public attended “live” with six more watching in real time on YouTube. The recording of the forum has been viewed twenty-two (22) times as of October 2020, and CMRPC’s presentation has been viewed thirty-six (36) times.

A recording of the full public forum discussion can be accessed [HERE](#).

In addition, the community was invited to review drafts of the plan which was published on the town’s website. The Trails Committee, the Conservation Commission, the Recreation Commission, the Planning Board, the Board of Selectmen, and Central Massachusetts Regional Planning Commission each reviewed and provided letters of support (Section 10).

Overall, the process of developing this plan was comprehensive and inclusive in scope and is consistent with methods recommended by DCS. The process distilled a lot of useful information and fostered an insightful analysis that yielded a forward thinking and useful plan.

B - Statement of Open Space and Recreation Goals

Northborough values its open space, which provides the town with habitat for wildlife, protection from flooding, beautiful recreational areas, and a high quality of living. The goal of this plan is to present an organized set of measures to protect, preserve, and acquire these valuable resources, to improve community understanding and commitment to conservation, and to enhance the recreational opportunities.

The goals below are refinements of the goals stated in the 2010 OSRP, reflecting progress toward the earlier stated goals, the results of the survey, input from interested stakeholders, and changes in area demographics, and the current political and economic climate.

The themes of the goals and objectives presented in the plan can be grouped into three (3) categories:

1. Protection and preservation of conservation resources.

2. Planning, development, maintenance, and improvement of greenways and recreation resources.

3. Provide access to open space and recreation opportunities for people of all ages and abilities.

Based upon public input and feedback as described above, the Committee formulated the following goals for this updated OSRP:

Protection and preservation of conservation resources

- Preserve open space for the town’s overall benefit.
- Improve community awareness of and commitment to open space resources.

Planning, development, maintenance, and improvement of greenways and recreation resources

- Improve and expand properties for active and passive open space opportunities.
- Maintain, manage, and restore existing open spaces and recreational facilities.

Provide access to open space and recreation opportunities for people of all ages and abilities.

- Improve accessibility to parks, open space and recreational facilities.

SECTION 7

ANALYSIS OF NEEDS



A. Summary of Resource Protection Needs

The Town of Northborough has taken some steps to protect its natural resources including the adoption of an open space residential design zoning bylaw, the passage of the CPA, designation of scenic roads, and the Open Space Committee working closely with area non-profits and state agencies on open space conservation. However, a continued strong focus on conservation of our remaining open space is needed in the face of increasing residential, industrial, and commercial development pressure with the Town nearing build-out.

Of the survey respondents, most felt there was a need to preserve open space and natural areas in the Town of Northborough. The greatest number (63.0%) of survey respondents indicated that it was very important to preserve open spaces to meet our water and conservation needs, while still a large percentage (62%) felt it was important to preserve open spaces to maintain wildlife corridors and important habitat. To preserve land, the largest number of respondents indicated that they supported zoning for open space conservation. 54% reported that they would support an increased CPA surcharge to fund land acquisition programs or other open space and recreation initiatives.

The greater Mt. Pisgah landscape is composed of approximately 5,000 acres. Land here is still

contained in fairly large tracts (many properties contain 50 to 100 acres), and much of this is still managed woodland and farmland. However, increasing development pressure, both in scale and pace, is rapidly fragmenting the ecological integrity of the landscape, and the window of opportunity to protect it is shrinking. The number of homes built in this region in the last five years has exploded, and the size of these homes has grown significantly. These factors have detrimental impacts on this rural economy; they drive the cost of land up, and, ultimately, tempt landowners to sell their properties for development. Protecting properties at the landscape scale is the most efficient and ecologically sound approach to preserving biodiversity. Sudbury Valley Trustees and the Town of Northborough should continue working with landowners and municipalities in the Mt. Pisgah region to protect the area's important resources. The Town of Northborough should also focus conservation efforts in the few remaining areas of large unfragmented open space.

In addition, the Town of Northborough and neighboring communities should develop a shared understanding of goals and objectives relative to shared assets to most effectively enhance their open space and recreational resources.

B. Summary of Community's Needs

SURVEY RESULTS

Northborough is fortunate to have an excellent Recreation Department, tremendous facilities and programs that satisfy most residents. According to the summary of the survey results (Appendix E) more residents were more satisfied with places for children and youth to play and recreate (81.0%) than with the places for adults and

seniors to recreate. However, there was general satisfaction with the condition of the recreational facilities in town.

The top three recreation facilities or features that respondents were interested in were: sidewalk connectivity, paved bike paths, and a pool.

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According to the survey, of the facilities listed, the top five reportedly visited by residents were Ellsworth McAfee Park, Assabet Park, Casey Field, Carney Park, and Memorial Field. 40% or more of respondents indicated that they did not know about Watson Park at Bartlett Pond, Westborough Wildlife Management Area, Cold Harbor Trails, Yellick & Suasco Trails, Stirrup Brook Trails, Schunder Conservation Area & Trails, Aqueduct Trails, and Carlstrom II Trail.



Figure 15. Aqueduct Trail Hiking Group.
Photo Source: Jim Stein

STATEWIDE COMPREHENSIVE OUTDOOR RECREATION PLAN (SCORP)

Massachusetts Outdoors 2017, the Statewide Comprehensive Outdoor Recreation Plan (SCORP), is a comprehensive plan for Massachusetts outdoor recreation. The SCORP surveyed state residents about their preferences and needs for recreation and open space facilities in the state and in their communities. The responses to both online and phone surveys were generally in line with needs and preferences expressed by Northborough residents in both the survey and public forum. Both SCORP surveys asked what facilities residents would most like to see added in their communities, and biking or

multi-use paved paths, hiking and walking trails, playgrounds for younger children, outdoor swimming pools and dog parks topped the lists. Many of these were mentioned as top needs in Northborough in both the OSRP survey and the public forum (Northborough respondents were most interested in sidewalk connectivity, paved bike paths, and a swimming pool).

At the SCORP public meeting held at CMRPC in 2017 some of the needs mentioned by communities included paved, multi-use paths, more water access, connected trails and dog parks. These were also top priorities for open space and recreation facilities in Northborough based on feedback in the surveys and public forum.

Many of the municipalities that responded to the SCORP survey did not provide regular recreation programming. When asked how important it was for more programming to be available for senior citizens, 83.7% of respondents said that it was either a somewhat or very important priority. 88.2% said that it was either a somewhat or very important priority to them that more four to 12 year old programming be offered. Even more requested is programming for teens, with 91.2% saying that it was either a somewhat or very important priority.

In Northborough, approximately 42% of respondents were at least satisfied with recreation facilities for teens (age 12 – 18). Less than 25% of respondents were at least satisfied with recreation programming for adults, 33% of respondents indicated that they were at least satisfied with recreation facilities, and 23% were at least satisfied with recreation programming for seniors. These findings seem to echo the SCORP findings that more programming for demographics other than youth is desired. In an effort to increase recreation opportunities for these underrepresented groups, the Town might consider implementing programming specific to its children, teen, young adult, and senior populations. Walking groups, Tai Chi, pickleball,

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bird watching, music groups and events, and board game nights are some activities that survey respondents were interested in that could provide recreation opportunities for these special groups.

RECREATION DEPARTMENT

The Town's Recreation Department is self-funded through its programming, which is extended to residents in neighboring communities in addition to Northborough citizens. The Recreation Department offers over three hundred programs in Town, at locations including the Rec Center, the Town Hall Gymnasium, and Northborough schools. With the exception of Algonquin Regional High School, the Recreation Department schedules all outdoor activities at Northborough schools. Programming covers activities for all ages and abilities (including special needs) and ranges from aquatics, to camps and clinics, to special trips planned throughout the year.

The department publishes a "recreation brochure and community guide" two times each year. The brochure lists the schedule of seasonal activities, one day activities, the recreational classes and

league for all ages. Preschool programs for kids ages 6 months – 5 years old, grade school programs, middle school and high school programs are run throughout the year. Adult programs are held in the gym in the evenings. A sampling of listings includes the following: Jazzercise; Archery; T-ball leagues; Parent Tot Swim; Karate; Kayaking; Quilting; Field Hockey Clinic; New York City Day Trip with Fox Tours; and Wicked Gross Anatomy.

Throughout the year, the Recreation Department is consistently soliciting feedback regarding its programs and activities via formal and informal surveys. The information is used to determine future offerings and initiatives. Examples of feedback received in the past include that existing field spaces are perceived to be at capacity for youth programming and would need to be expanded to accommodate adult recreational needs; and that Northborough residents are interested in improving access to the Town's water bodies, and developing an off-leash dog park.



Figure 16. Recreation Department Staff

Photo Source: Northborough Recreation Department

► TOWN OF NORTHBOROUGH OPEN SPACE AND RECREATION PLAN – 2020

Name	Acreage	Description
Mount Pisgah	186 acres	Wooded area and trails
Ellsworth-McAfee Park	50 acres	Playground equipment, recreational fields, and skate park
Assabet Park	12 acres	Playground equipment and splash pad
Memorial Field	10 acres	Baseball fields
Bearfoot Road	13 acres	Walking trail, boat ramp
Edmund Hill Woods	61 acres	Wooded area and trails
Watson Park / Bartlett Pond	41 acres	Walking trail, boat ramp
Carney Park	18 acres	Walking trail
Green Street Field	55 acres	Walking trail

Table 7.1 - Northborough Parks and Conservation Areas

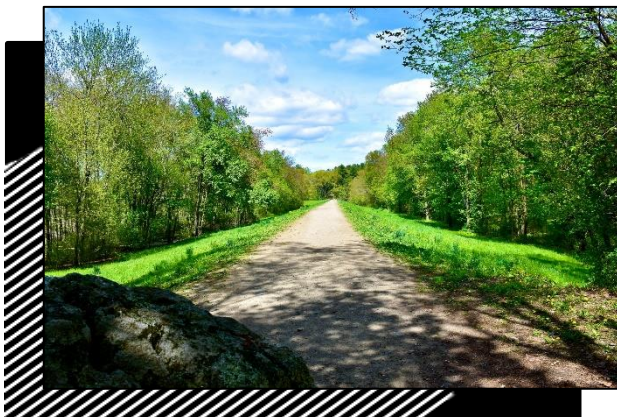


Figure 17. Carney Park walking trail.

Photo Source: Jim Stein

In 2018 the Recreation Department renovated both the baseball and softball fields at the Melican Middle School. The Department received \$285,000 from the Community Preservation Committee (CPC) in FY19 for Phase 1 of the lighting project at the Melican Middle School and requested an additional \$290,000 from CPC for FY20 to complete the project. With the

completion of the lighting upgrades, the Town now has two fully lit multi-use fields.

There are seven playgrounds in Northborough. They are located at each elementary school, Assabet Park, Ellsworth McAfee Park and Town Hall. The school playgrounds are open to the public after school hours and the two parks are open from dawn to dusk.

Town residents have the use of the beach and swimming area at Lake Chauncy in Westborough. A boat ramp, beach, and public fisherman’s access are located on the shores of Little Chauncy Pond off Lyman Street.

OTHER RECREATION PROGRAMS AND FACILITIES

The Boroughs Family Branch of the YMCA is located on Valente Drive in Westborough. It began its operations in 1983 in a small branch office running all of its programs without a facility. Swim programs were run at local hotel pools and child care programs were run out of leased church space and store fronts. The Boroughs Branch has provided services and programs throughout a nine-town area including: Berlin, Grafton, Hudson, Marlborough, Northborough, Shrewsbury, Southborough, Upton, and Westborough.

Through the years programs and services have grown resulting in the construction of a 62,000 square foot full facility that opened in November 2002. The facility houses a 6-lane 25-yard Pool, Full Gymnasium and Track, Rock Climbing Wall, Nature Adventure Zone for Kids, 2 Child Watch Rooms, Computer Room, Senior Lounge, Group Cycling Room, Aerobic Exercise Rooms, and a state-of-the-art Fitness/Wellness Center. The Boroughs Branch oversees the operations of two licensed Child Development Centers and Kindergartens in Northborough, and Grafton Finally, a multipurpose field allows for outdoor programs and summer camp activity.

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ACCESSIBILITY

The Town of Northborough has completed an Americans with Disability Act (ADA) self-evaluation of Ellsworth McAfee Park, Assabet Park, the Senior Center, Carney Park and Memorial Field. These evaluations are contained in Appendix F.

RECREATION, PARKS, AND FACILITY NEEDS

Over the past ten years, community groups have continued efforts to expand the active and passive recreation facilities. These efforts have led to a recognition that Northborough's parks and facility needs include:

- Sidewalks
- Bikeway/Walking trails
- Tennis / pickleball courts
- Space for indoor fitness programs
- A neighborhood dog park

Sidewalks

While there are approximately 76 miles of public roadways in Northborough, there are only approximately 37 miles of sidewalks (including sidewalks on both sides of some streets). The surveys and community forums identified the need for a system of well maintained, interconnected accessible sidewalks to encourage passive recreation and provide for non-vehicular connections to points of interest throughout Town.

Bikeway/Walking Trails

Opportunities for connections such as walking and biking trails, to provide for recreation as well as a transportation alternative, has been identified as a need. There are limited designated bikeways in Northborough that connect to key destinations, and limited off-road biking. There is also a desire for an interconnected system of trails. At present, walking largely involves driving to a "trail head" or walking along a roadway. Biking involves driving to a neighboring town for a bike trail or biking along a roadway. Additionally, the available trails are of a relatively short length.

The town has designated the Assistant Town Administrator as its ADA Coordinator and has in place an ADA Grievance Policy. Generally, the facilities are accessible by persons with disabilities, however because of limited funding and infrastructure, provision of restroom facilities for all persons proves to be a challenge.

Pickleball Courts

Pickleball courts have been identified as a need by community groups. The popular, growing sport of pickleball is played with a paddle and wiffle ball, over a net, and combines the rules of ping pong and badminton. Pickleball courts require less land than tennis courts.

The Northborough Recreation Department has been engaged with community groups interested in pickleball and has engaged an engineer to evaluate two different locations in town. The department will be applying for funding from the Community Preservation Committee and hopes to construct 4 – 6 courts in town in 2021.

Coordination with commercial recreation providers

In order to leverage all of Northborough's resources, coordination with commercial recreation facilities is important to identify and publicize the full range of programs, classes and facilities that are available to Northborough residents. The Corridor 9/495 Regional Chamber of Commerce could be a resource to identify commercial recreation operations.

FUNDING AND RESOURCE NEEDS

Funding for maintenance and improvement of recreation facilities, preservation of open space, and related passive recreation opportunities is presently dependent upon grants, Town Meeting appropriations, and volunteers. This sometimes results in limited ability to properly maintain existing facilities and resources, or to acquire land and develop and manage programs as opportunities arise. Therefore, open space and recreational efforts need to be focused on addressing the important Town needs and funding source requirements.

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Open space and recreational components can be incorporated into other types of projects such as roadway projects or infrastructure improvements to address multiple municipal needs.

A funding source which is at least partly dedicated to open space and recreation would be one way to fund maintenance of existing facilities and acquisition of targeted new facilities when the opportunities present themselves.

VOLUNTEER SYSTEM

Volunteers are presently recruited as a need arises and for operation of various recreation programs. Having an established system of recruiting and maintaining volunteers is a means to develop and implement programs without increased funding.

The town could develop a list of needs and job skills required and recruit volunteers in much the same manner as they do employees. For example, a Volunteer Corps could be established to assist with conservation and stewardship. The Town should also support and recognize the work of volunteers to progressing the Town's goals.

PUBLIC AWARENESS NEEDS

Many survey respondents indicated that they were not aware of the range of Northborough's facilities, primarily conservation areas. Recreation participants use the areas which are known to them and lack sufficient access to information about other areas. Survey respondents and public forum participants noted that there is a need for greater information such as maps, about the available recreation facilities and open space areas.

While there is information about the recreation facilities and open space areas on the Town's website, this information is limiting in that there is not one centralized source of information. This

information is currently segregated among departments and boards. Additionally, some information, such as trail maps, would be useful to have on smart phone apps.

MUNICIPAL WEBSITE

The Town's website is largely structured to find materials by individual departments.

With recreational facilities (such as fields) being under the responsibility of the Recreation Commission and open space areas (primarily Conservation Areas) being under the responsibility of the Conservation Commission and other areas being under the authority of State and private organizations, the structure of the website does not readily lend itself to a search for the full range of recreational opportunities. While maintaining the current overall structure of the website, some modifications could be made to allow someone searching for recreational facilities, programs, and areas to be able to locate all of the resources without going through each of the separate departments. The website should provide a "one click" access to all of the recreational opportunities in the Town – active, teams, passive, etc. In the long term, this may necessitate tapping one department to be responsible for coordination with other public and private entities regarding programs and activities so that promotion of all recreational opportunities is managed by one department.

PUBLIC AWARENESS PROGRAM

Residents are not informed as to the availability of the recreational facilities and programs and open space/passive recreation areas. An organized program to inform the public of these resources would likely result in their increased use and recognition of the need for more resources. Use of social media, articles in area publications, notices at Town Meetings, and public information meetings are some of the methods which need to be part of an outreach/awareness program.

C. Management Needs, Potential Change of Use

MANAGEMENT

The Parks Division of the Department of Public Works is responsible for mowing, trash pickup and minor landscaping at all town parks and recreation facilities, while the Recreation Department is responsible for all scheduling at all town parks and recreation facilities and all elementary and middle school outdoor fields.

No change of use is expected at any of the existing conservation or recreation areas. A dog park, if approved at either a state or municipal property, might be considered a change of use and require a new set of rules and regulations.

SENIOR CENTER

The Town's senior population is increasing year over year. The senior population has more than doubled since the previous Senior Center was built in 1984. As such the new larger Senior Center is expected to meet the needs of the current and future senior population.

In 2007, town voters voted overwhelmingly to support funding for the design of a new senior center. Estimated project cost was approximately \$7 million. The Senior Center Building Committee and the Council on Aging worked with Court Street Architects, Inc. and CMS, Inc. to develop the design for the new Senior Center. The 119 Bearfoot Road facility opened in the Spring of 2010.

The Senior Center provides social, recreational, and educational programs for those over 60 years of age. In addition, it is a source of information, support and referral through the Outreach Program. The Council on Aging/Senior Center is available as a community resource for anyone who needs information on services for older adults. We maintain an active calendar of activities ranging from exercise to art classes as well as ESL classes and presentations pertinent to aging. Information on activities can be found on the Town website as the monthly Senior Center

newsletter. The newsletter is mailed to all seniors through the generosity of the Friends of the Northborough Senior Center, Inc. who pay for the mailing costs.

The students from Algonquin Regional High School's Community Action Program lead Technology Tuesdays and help with a variety of volunteer positions. The students from Assabet Valley Collaborative also help out in the Bistro @119.

Additional areas of assistance offered at the Senior Center include housing, home health, transportation food resources, medical equipment, socialization and counseling.

COMMUNITY GARDEN

Residents are invited to apply yearly in the Fall for a plot in the Northborough Community Gardens on Valentine Road. The Community Gardens were built in 2011 and have grown in popularity since. All thirty gardens were rented every season.

NEW OPEN SPACE OPPORTUNITIES

The Town of Northborough has an Open Space Residential Design (OSRD) Zoning Bylaw (Chapter 7-10-010 Open space-residential design.) As a result, a new development may create open space and recreational opportunities. The purposes of open space-residential design are to protect open space, agricultural and forestry land, viewsheds, wildlife habitat and corridors, wetlands and water resources, and historical and archeological resources; to protect the value of real property; encourage creative, environmentally sensitive design as the preferred form of residential development; and to encourage more efficient development that consumes less open land and respects existing topography and natural features better than a conventional or grid subdivision. In the Residence A or Residence B District, the Planning Board may grant a special

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permit for an OSRD that includes two or more detached single-family dwelling units. In addition to detached single family dwellings, an OSRD may include the following uses:

- ❖ Open space, conservation or recreation areas, including trails for walking, hiking, cross country skiing, horseback riding, picnicking and wildlife observation.
- ❖ Agricultural, equestrian and horticultural uses.
- ❖ Accessory recreational amenities for residents of the OSRD, such as a tennis court or playground.

Any proposed common open space within an OSRD shall be conveyed in accordance with the provisions of M.G.L. c. 40A, § 9. In any case where the common open space is not conveyed to the Town, a restriction enforceable by the Town by its Conservation Commission or other board under M.G.L. c. 184, §§ 31-32 shall be recorded providing that such land shall be kept in perpetuity in an open or natural state, and the Board of Selectmen is hereby authorized to accept such restrictions if the Conservation Commission declines to do so in any instance. Wherever possible, existing trails shall be kept open for limited recreational use.

In addition to utilization of the OSRD Bylaw, the future disposition of the Westborough State Hospital property should remain a focus of those concerned with Northborough Open Space and Recreation.

RESOURCES

After the Town of Northborough adopted CPA at the November 2004 election, the Community Preservation Committee (CPC) was created through an article approved at the 2005 Annual Town Meeting. The CPA funds affordable housing, historic preservation, and open space and outdoor recreation projects. As of 2017, 172 communities have passed the CPA and those communities had protected 26,297 acres of open space and initiated more than 1,700 outdoor recreation projects.

Through the adoption of a 1.5% surcharge (of a maximum 3% surcharge) on each Northborough property tax bill, the State will match up to 100% of the amount raised by the Town.

SECTION 8

GOALS & OBJECTIVES



A. 2020 OSRP Goals and Objectives

As previously stated in Section 6, the goal of the plan is to protect, preserve, and enhance the resources that provide the high-quality living and working environment valued by Northborough residents.

The goals and objectives listed herein were developed based on the survey and resident input received during committee meetings. Key priorities, which developed during the process, were the preservation of open space and protection of natural resources. The following list is a consolidation of the many issues and ideas discussed throughout the planning process.

Goal 1: Preserve open space for the town's overall benefit. Residents place a high value on the quality and location of open space for many purposes and overwhelmingly support land preservation.

Objectives

1-A Acquire through fee acquisition or conservation restriction additional open space permanently protected by the Town, State or non-profits, particularly for parcels that provide key linkages among open spaces, mitigate hazards and/or contribute to the diversity of wildlife habitat.

1-B Develop a schedule and process to regularly review land use changes, and identify and prioritize areas for protection and acquisition based on conservation values assessment.

Goal 2: Improve accessibility to parks, open space and recreational facilities. Access is imperative to the highest and best use of both passive and active recreation sites and all open space for people of various ages and abilities.

Objectives

2-A Evaluate existing accessibility challenges and opportunities.

2-B Improve accessibility when upgrading facilities.

2-C Create inclusionary experiences or facilities for specific ADA groups.

Goal 3: Improve, expand, and manage properties for active and passive open space opportunities. Abundant and varied open space within the town of Northborough provide tremendous outdoor activities

Goal: a desired condition of well-being

Objective: an overarching intent, focused on addressing the identified goal

Action: a defined step to fulfill the objective

such as hiking, mountain biking, cross country skiing, fishing, birding, horseback riding, etc. Appropriate actions should be taken to foster the continued enjoyment of these areas. This goal can also include increased parking, walking/biking routes, sidewalks and trail connections.

Objectives

3-A Add more active recreational facilities outside of school grounds to meet increasing teen and adult recreation needs.

3-B Expand connections between existing open spaces and community resources. This can include parking, walking/biking routes, sidewalks and trail connections.

3-C Where possible, incorporate passive recreation opportunities into active recreation facilities.

Goal 4: Improve community awareness of and commitment to open space resources. Ongoing education and awareness-building efforts among young people, new residents, and others will ensure that the goal remains a primary focus for years to come.

Objectives

4-A Centralize information on open space resources to increase awareness and engage the public in using the open space and recreation resources.

4-B Support placemaking by communicating the location, history, significance, and current conditions of Northborough's environmental, historical and cultural resources and historical landscapes.

4-C Educate the public on conservation measures.

Goal 5: Maintain, manage, and restore existing open spaces and recreational facilities.

Existing open space and recreation resources are invaluable to the quality of living for the Northborough community, and their preservation and upkeep must be prioritized and planned for.

Objectives

5-A Develop land management plans for existing open space and recreational facilities.

5-B Implement identified maintenance priorities.

B. Financial Considerations

This section outlines some financial mechanisms that may be used to fund plan goals.

As discussed above, the **Community Preservation Act** allows cities and towns to adopt a property tax surcharge of up to 3% for the purposes of open space, recreation, historic preservation, and affordable housing. A minimum of 10% of the funds raised must be spent on each the areas of open space, historic preservation and affordable housing. The remaining 70% is available for any of the three, or recreation. CPA is an effective tool available to implement the recommendations of this Plan.

As bonds for previously funded capital improvements (schools, police stations, libraries, water/sewer projects, etc.) are paid off, some or all of that **Bonding Capacity** could be dedicated to recreation facility improvements and/or land acquisition. For example, if \$100,000 per year of bonding capacity were to become available, it could finance (at 7% interest) a \$700,000 land purchase over 10 years. Use of municipal bonds for open space and recreation projects would need to be weighed against other pressing capital needs.

Similarly, without waiting for other bonds to be paid off, the Town could seek voter approval to create new bonding capacity by excluding a specified amount from the limits of Proposition 2 ½. For example, if the voters approved a **Debt Exclusion** of \$1,000,000 for the purchase of land, the specific amount needed to finance the

purchase (including principal and interest) would be raised by increasing property taxes beyond the limit imposed by Proposition 2 ½. When the purchase was fully paid for, the authority to increase taxes would automatically expire and the property tax would revert to the former rate.

The Town could adopt a policy of **Annually Appropriating** an amount to a reserve fund dedicated to open space and recreation. The advantage of this option is that it could put the Town in a position to move quickly if a parcel (e.g. a Chapter 61, 61A or 61B parcel) becomes available and requires fast action. While it would take a few years for such a fund to grow, the fund could be used as a match for a grant or as a down payment in combination with bonding. However, with Proposition 2 ½ limits and pressing operational needs, it is difficult to set aside even small amounts for use later.

A **Special Tax** could be enacted whose revenues would be dedicated to land purchases. However, authority for such special taxes is limited. Local governments can impose hotel/motel taxes and airport fuels taxes.

State/Federal Grants are available for open space purchases and other purposes. Among the programs available is the Self-help Program of EOEAs' Division of Conservation Services. It will reimburse communities for up to 90% of the cost of acquiring conservation land. The federal Land and Water Conservation Fund (administered by the Division of Conservation Services) will fund up

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to 50% of the cost of acquiring or developing recreation land. While this program has not been fully funded in recent years, there is renewed interest in this it and more funds should be available in the future. The Department of Food and Agriculture administers the Agricultural Preservation Restriction Program, which purchases the development rights of farmland. The Department of Fisheries, Wildlife and Environmental Law Enforcement administers the Non-Game Tax Fund, which uses voluntary contributions from a state income tax form checkoff to purchase the habitats of endangered species.

The federal **Community Development Block Grant** program, administered by the Massachusetts Executive Office of Communities and Development (EOCD) is a potential funding source. While not available for open space purchases, it can be used for infrastructure improvements that can facilitate park development.

And finally, the federal **Transportation Efficiency Act for the 21st Century (TEA-21)** encourages the development of alternative modes of transportation, especially bicycle paths through old railroad rights-of-way and other corridors. This potential funding can be an important component of facilitating access to open space and recreation areas.

SECTION 9

7 YEAR ACTION PLAN



A. Seven Year Action Plan Overview

The following Seven Year Action Plan was developed utilizing the information obtained from the resident survey, members of the committee, and other stakeholders. The action plan establishes a year by year timetable for the goals and objectives described in Section 8: Goals and Objectives (above) and the plan can be enhanced to meet the needs and desires of the residents over time. Many require nothing more than providing information to the public while others will require the expenditure of considerable amounts of money to accomplish them. It is the desire of this committee to see as many of these action items implemented over the next seven years as is physically and financially possible.








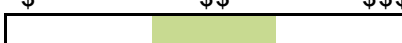
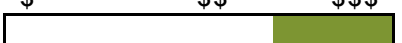
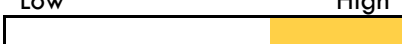

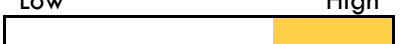
For the purposes of this action plan, each action step is given a priority of High, Medium, Low or Ongoing. Priority High items should occur 0 to 2 years, priority Medium items 0 to 4 years, and priority Low items 0 to 7 years from the date of the plan.

In addition, each action item is delegated to a responsible entity with potential collaborators and likely resources. The responsible parties and collaborators may include one or more of the following:

BOS	Northborough Board of Selectmen
Cem Com	Northborough Cemetery Commission
CMRPC	Central Massachusetts Regional Planning Commission
Con Com	Northborough Conservation Commission
CPC	Northborough Community Preservation Committee
DAR	Massachusetts Department of Agricultural Resources
DCR	Massachusetts Department of Conservation and Recreation

DFW	Massachusetts Division of Fisheries and Wildlife
DPW	Northborough Department of Public Works
GIS	Northborough Geographic Information Systems Department
GWAC	Northborough Groundwater Advisory Committee
HC	Northborough Historic Commission
LT	Land Trusts
NEFF	New England Forest Foundation
NTC	Northborough Trails Committee
OSC	Northborough Open Space Committee
PB	Northborough Planning Board
PD	Northborough Planning Department
PRC	Northborough Parks and Recreation Commission
Rec Dept.	Northborough Recreation Department
SUASCO	Sudbury Assabet Concord River Watershed Council
SVT	Sudbury Valley Trustees
TA	Northborough Town Administration
ZBA	Northborough Zoning Board of Appeal

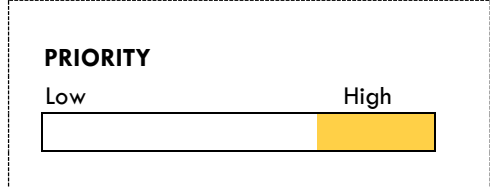
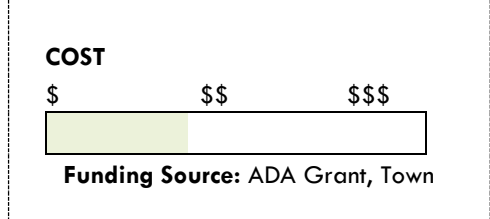
Goal #1: Preserve open space for the town's overall benefit.

Objective: Acquire through fee acquisition or conservation restriction additional open space permanently protected by the Town, State or non-profits, particularly for parcels that provide/can provide key linkages among open spaces.		
<p>Action: Work closely with Sudbury Valley Trustees to identify key parcels and work cooperatively on preservation.</p>	<p>Action: Engage in periodic outreach to landowners of large parcels (>10 acres) about opportunities to preserve open space.</p>	<p>Action: Identify suitable town owned property that can be committed to open space.</p>
<p>COST</p> <p>\$ \$\$ \$\$\$</p>  <p>Funding Source: Town, LAND Grant, Conservation Partnership Grant</p>	<p>COST</p> <p>\$ \$\$ \$\$\$</p>  <p>Funding Source: Town, LAND Grant, MVP Action Grant, Conservation Partnership Grant</p>	<p>COST</p> <p>\$ \$\$ \$\$\$</p>  <p>Funding Source: Town, PARC Grant, LAND Grant, MVP Action Grant, Conservation Partnership Grant</p>
<p>PRIORITY</p> <p>Low High</p> 	<p>PRIORITY</p> <p>Low High</p> 	<p>PRIORITY</p> <p>Low High</p> 
<p>RESPONSIBLE PARTY</p> <p>OSC, SVT</p>	<p>RESPONSIBLE PARTY</p> <p>OSC, Con Com</p>	<p>RESPONSIBLE PARTY</p> <p>OSC, Con Com</p>
<p>COLLABORATORS</p> <p>PD, DPW</p>	<p>COLLABORATORS</p> <p>LT, NEFF, PD, DAR, DCR</p>	<p>COLLABORATORS</p> <p>LT, NEFF, PD, DAR, DCR</p>
Objective: Develop a schedule and process to regularly review land use changes, and identify and prioritize areas for protection and acquisition based on conservation values assessment.		
<p>Action: Inventory and assess conservation lands.</p>	<p>Action: Target large tracts of prime farmland soils for protection as agricultural and open space.</p>	<p>Action: Strategically conserve abutting parcels with high conservation value.</p>
<p>COST</p> <p>\$ \$\$ \$\$\$</p>  <p>Funding Source: Town, MVP Action Grant</p>	<p>COST</p> <p>\$ \$\$ \$\$\$</p>  <p>Funding Source: Town, APR Program, Farm Viability Enhancement Program</p>	<p>COST</p> <p>\$ \$\$ \$\$\$</p>  <p>Funding Source: Town, PARC Grant, LAND Grant, CR Program, Conservation Partnership Grant</p>
<p>PRIORITY</p> <p>Low High</p> 	<p>PRIORITY</p> <p>Low High</p> 	<p>PRIORITY</p> <p>Low High</p> 
<p>RESPONSIBLE PARTY</p> <p>OSC, Con Com, Rec Dept., NTC</p>	<p>RESPONSIBLE PARTY</p> <p>OSC</p>	<p>RESPONSIBLE PARTY</p> <p>GIS, Con Com, CPC</p>
<p>COLLABORATORS</p> <p>GIS, PD, DPW</p>	<p>COLLABORATORS</p> <p>GIS, Con Com</p>	<p>COLLABORATORS</p> <p>LT, NEFF, PD, DAR, DCR, BOS, TA</p>

Goal #2: Improve accessibility to parks, open space and recreational facilities.

Objective: Evaluate existing accessibility challenges and opportunities.

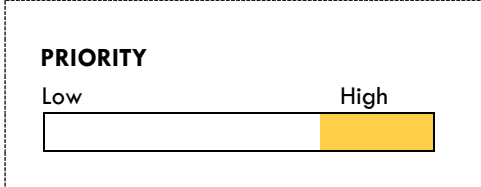
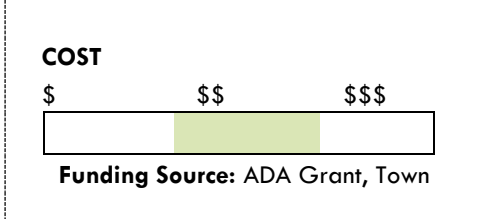
Action: Apply for funding and/or develop a local dedicated funding source to complete ADA Self-Evaluation and Transition Plan Update.



RESPONSIBLE PARTY
OSC, Rec Dept.

COLLABORATORS
PRC, PD, DPW, NTC

Action: Complete ADA Self-Evaluation and Transition Plan Update.

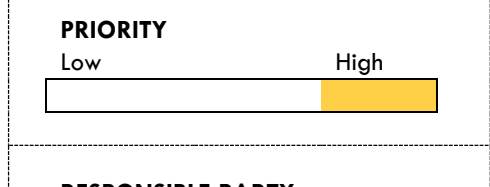
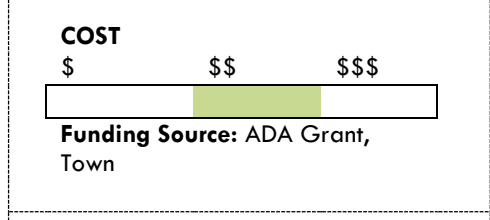


RESPONSIBLE PARTY
Consultant

COLLABORATORS
OSC, Rec Dept., PRC, PD, DPW, NTC

Objective: Improve accessibility when upgrading facilities.

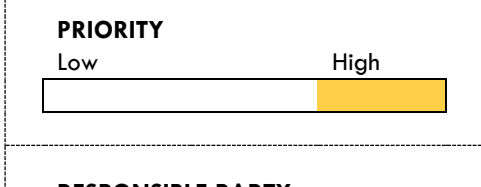
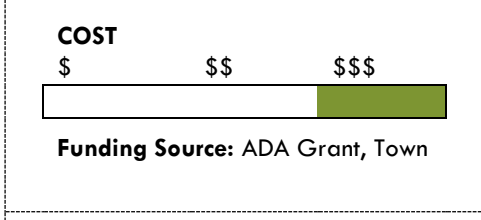
Action: Inventory existing recreational facilities to document accessible conditions



RESPONSIBLE PARTY
OSC, Rec Dept.

COLLABORATORS
PRC, PD, DPW, NTC

Action: Create accessible passive and active recreation opportunities that meet ADA standards.

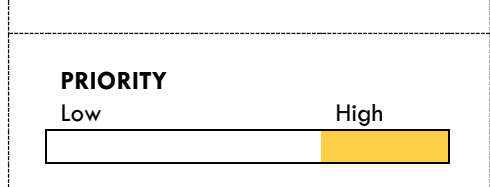
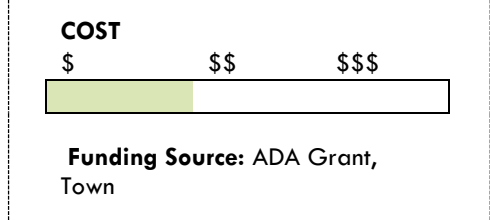


RESPONSIBLE PARTY
Rec Dept., PRC

COLLABORATORS
BOS, TA, CPC

Objective: Create inclusionary experiences or facilities for specific ADA groups.

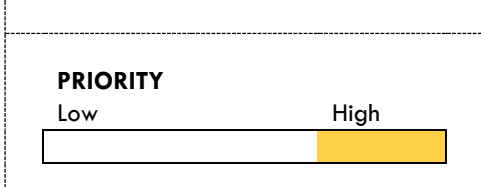
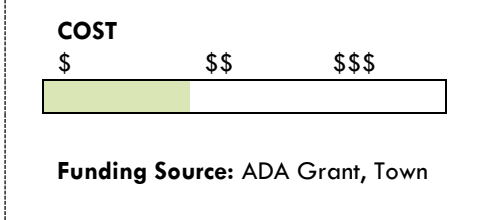
Action: Identify the needs of current residents with disabilities.



RESPONSIBLE PARTY
Rec Dept.

COLLABORATORS
Volunteers, OSC, PRC

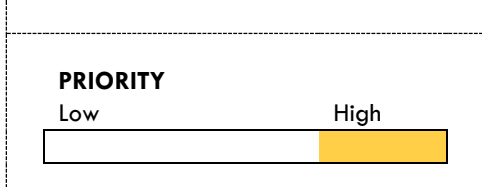
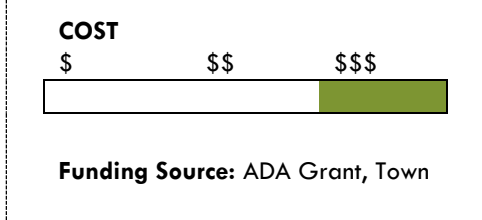
Action: Explore funding opportunities.



RESPONSIBLE PARTY
Rec Dept.

COLLABORATORS
OSC, PRC, CPC

Action: Build facilities to meet resident-specific needs.



RESPONSIBLE PARTY
Rec Dept.

COLLABORATORS
DPW, PD, PRC

Goal #3: Improve and expand properties for active and passive open space opportunities.

Objective: Add more active recreational facilities outside of school grounds to meet increasing teen and adult recreation needs.		
<p>Action: Evaluate the Boundary Street property as a possible location for the expansion of facilities.</p>	<p>Action: Develop municipal pickleball courts and other alternative facilities.</p>	<p>Action: Identify locations for new neighborhood parks and/or enhance existing parks with desired amenities such as a dog park.</p>
<p>COST \$ \$\$ \$\$\$ </p> <p>Funding Source: Town, LAND Grant, PARC Grant, Land and Water Conservation Fund</p>	<p>COST \$ \$\$ \$\$\$ </p> <p>Funding Source: Town, PARC Grant, Land and Water Conservation Fund</p>	<p>COST \$ \$\$ \$\$\$ </p> <p>Funding Source: Town, LAND Grant, PARC Grant, Land and Water Conservation Fund</p>
<p>PRIORITY Low High </p>	<p>PRIORITY Low High </p>	<p>PRIORITY Low High </p>
<p>RESPONSIBLE PARTY Rec Dept., PRC</p>	<p>RESPONSIBLE PARTY Rec Dept., PRC</p>	<p>RESPONSIBLE PARTY OSC, PRC</p>
<p>COLLABORATORS PD, Con Com</p>	<p>COLLABORATORS PD, DPW, CPC</p>	<p>COLLABORATORS Volunteers, Con Com, Rec Dept., PD</p>
Objective: Expand connections between existing open spaces and community resources. This can include parking, walking/biking routes, sidewalks and trail connections.		
<p>Action: Incorporate “Complete Streets” concepts – including sidewalks and bike lanes” as streets are improved.</p>	<p>Action: Seek to add more parking areas.</p>	<p>Action: Seek opportunities for greenway connections and/or identify opportunities to repurpose old infrastructure for trails development (such as the old trolley line).</p>
<p>COST \$ \$\$ \$\$\$ </p> <p>Funding Source: Town, Complete Streets Grant, MassTrails Grant</p>	<p>COST \$ \$\$ \$\$\$ </p> <p>Funding Source: Town, PARC Grant, Land and Water Conservation Fund, MassTrails Grant, Complete Streets Grant</p>	<p>COST \$ \$\$ \$\$\$ </p> <p>Funding Source: Town, MVP Action Grant, MassTrails Grant, Brownfields Redevelopment Fund, Complete Streets Grant</p>
<p>PRIORITY Low High </p>	<p>PRIORITY Low High </p>	<p>PRIORITY Low High </p>
<p>RESPONSIBLE PARTY DPW</p>	<p>RESPONSIBLE PARTY OSC, DPW</p>	<p>RESPONSIBLE PARTY OSC, Con Com</p>
<p>COLLABORATORS OSC, PD</p>	<p>COLLABORATORS PD, DCR</p>	<p>COLLABORATORS PD, DAR, DCR, BOS, TA</p>

Goal #4: Improve community awareness of and commitment to open space resources.

Objective: Centralize information on open space resources to increase awareness and engage the public in using the open space and recreation resources.		
<p>Action: Designate one responsible party to make up to date information available to the public online.</p>	<p>Action: Launch a communication campaign with help from student clubs to provide information about rec resources in Town, including engaging students in Northborough Trails Committee activities.</p>	<p>Action: Engage the schools to utilize Town open space and recreational facilities for learning.</p>
<p>COST \$ \$\$ \$\$\$ </p> <p>Funding Source: Town, DLTA, LPA Hours</p>	<p>COST \$ \$\$ \$\$\$ </p> <p>Funding Source: Town, MassTrails Grant, DLTA</p>	<p>COST \$ \$\$ \$\$\$ </p> <p>Funding Source: Town, DLTA, Planning Assistance Grant, MVP Action Grant</p>
<p>PRIORITY Low High </p>	<p>PRIORITY Low High </p>	<p>PRIORITY Low High </p>
<p>RESPONSIBLE PARTY Con Com</p>	<p>RESPONSIBLE PARTY OSC</p>	<p>RESPONSIBLE PARTY OSC, NTC, PRC</p>
<p>COLLABORATORS OSC, PRC, Rec Dept.</p>	<p>COLLABORATORS NTC, PRC, Volunteers</p>	<p>COLLABORATORS Schools</p>
Objective: Support placemaking by communicating the location, history, significance, and current conditions of Northborough's environmental, historical and cultural resources and historical landscapes.		
<p>Action: Provide consistent way-finding signage for open space and recreation facilities.</p>	<p>Action: Provide signage and information about Open Space and Recreation facilities and initiatives at frequented local spots (i.e. library, ARHS).</p>	
<p>COST \$ \$\$ \$\$\$ </p> <p>Funding Source: Town, Land and Water Conservation Fund, PARC Grant, MassTrails Grant</p>	<p>COST \$ \$\$ \$\$\$ </p> <p>Funding Source: Town, Land and Water Conservation Fund, PARC Grant, MassTrails Grant</p>	
<p>PRIORITY Low High </p>	<p>PRIORITY Low High </p>	
<p>RESPONSIBLE PARTY OSC, Con Com, NTC, HC, PRC</p>	<p>RESPONSIBLE PARTY OSC, Con Com, NTC, HC, PRC</p>	
<p>COLLABORATORS Rec Dept., DPW, DCR</p>	<p>COLLABORATORS Rec Dept., DPW, DCR, Schools, Various Town Depts.</p>	
Objective: Educate the public on conservation measures.		
<p>Action: Hold public sessions to discuss work being conducted by the town to advance open space priorities.</p>	<p>Action: Support interdepartmental and inter-committee collaboration on conservation goals.</p>	<p>Action: Hold monthly or bi-monthly conservation coffees to engage the public on conservation topics.</p>
<p>COST \$ \$\$ \$\$\$ </p> <p>Funding Source: Town, MVP Action Grant, DLTA, LPA Hours</p>	<p>COST \$ \$\$ \$\$\$ </p> <p>Funding Source: Town, MVP Action Grant</p>	<p>COST \$ \$\$ \$\$\$ </p> <p>Funding Source: Town, MVP Action Grant</p>
<p>PRIORITY Low High </p>	<p>PRIORITY Low High </p>	<p>PRIORITY Low High </p>
<p>RESPONSIBLE PARTY ConComm</p>	<p>RESPONSIBLE PARTY ConComm</p>	<p>RESPONSIBLE PARTY ConComm</p>
<p>COLLABORATORS Various Town Boards and Depts.</p>	<p>COLLABORATORS Various Town Boards and Depts.</p>	<p>COLLABORATORS OSC, NTC, PRC</p>

Goal #5: Maintain, manage, and restore existing open spaces and recreational facilities

Objective: Develop land management plans for existing open space and recreational facilities.		
<p>Action: Inventory existing open space and recreational facilities to document conditions.</p>	<p>Action: Identify and explore control options for invasive species when they threaten sensitive species or habitats.</p>	<p>Action: Prioritize maintenance tasks and identify funding sources.</p>
<p>COST \$ \$\$ \$\$\$ </p> <p>Funding Source: Town, MVP Action Grant, DLTA, LPA Hours</p>	<p>COST \$ \$\$ \$\$\$ </p> <p>Funding Source: Town, MVP Action Grant, DLTA</p>	<p>COST \$ \$\$ \$\$\$ </p> <p>Funding Source: Town, DLTA, LPA Hours</p>
<p>PRIORITY Low High </p>	<p>PRIORITY Low High </p>	<p>PRIORITY Low High </p>
<p>RESPONSIBLE PARTY PRC</p>	<p>RESPONSIBLE PARTY Con Com</p>	<p>RESPONSIBLE PARTY PRC</p>
<p>COLLABORATORS OSC, Rec Dept., DPW, NTC</p>	<p>COLLABORATORS OSC, NTC, SVT, NEFF, Volunteers</p>	<p>COLLABORATORS Rec Dept., DPW, OSC, NTC</p>
Objective: Implement identified maintenance priorities.		
<p>Action: Seek outside resources (contractors) for completion of maintenance.</p>	<p>Action: Apply for funding and/or develop a local dedicated funding source for maintenance of recreation facilities.</p>	<p>Action: Develop and maintain a database of various maintenance projects that could serve as volunteer opportunities under staff supervision.</p>
<p>COST \$ \$\$ \$\$\$ </p> <p>Funding Source: Town, MVP Action Grant, PARC Grant,</p>	<p>COST \$ \$\$ \$\$\$ </p> <p>Funding Source: Town, DLTA, LPA Hours</p>	<p>COST \$ \$\$ \$\$\$ </p> <p>Funding Source: Town, DLTA</p>
<p>PRIORITY Low High </p>	<p>PRIORITY Low High </p>	<p>PRIORITY Low High </p>
<p>RESPONSIBLE PARTY Rec Dept.</p>	<p>RESPONSIBLE PARTY Rec Dept.</p>	<p>RESPONSIBLE PARTY Con Com</p>
<p>COLLABORATORS TA, OSC, PRC, NTC, Con Com</p>	<p>COLLABORATORS TA, OSC, PRC, NTC, Con Com</p>	<p>COLLABORATORS OSC, PRC, NTC, Rec Dept.</p>

ACTION PLAN

OPEN SPACE AND RECREATION PLAN

1 Goal 1: Preserve open space for the town's overall benefit.

- > Acquire through fee acquisition or conservation restriction additional open space permanently protected by the Town, State or non-profits, particularly for parcels that provide key linkages among open spaces, mitigate hazards and/or contribute to the diversity of wildlife habitat
- > Develop a schedule and process to regularly review land use changes, and identify and prioritize areas for protection and acquisition based on conservation values assessment.
- > Conserve properties through purchase or restriction that would expand and improve flood control, mitigate hazards and/or contribute to the diversity of wildlife habitat.

4 Goal 4: Improve community awareness of and commitment to open space resources.

- > Centralize information on open space resources to increase awareness and engage the public in using the open space and recreation resources.
- > Support placemaking by communicating the location, history, significance, and current conditions of Northborough's environmental, historical and cultural resources and historical landscapes.
- > Educate the public on conservation measures.

3 Goal 3: Improve, expand, and manage properties for active and passive open space opportunities.

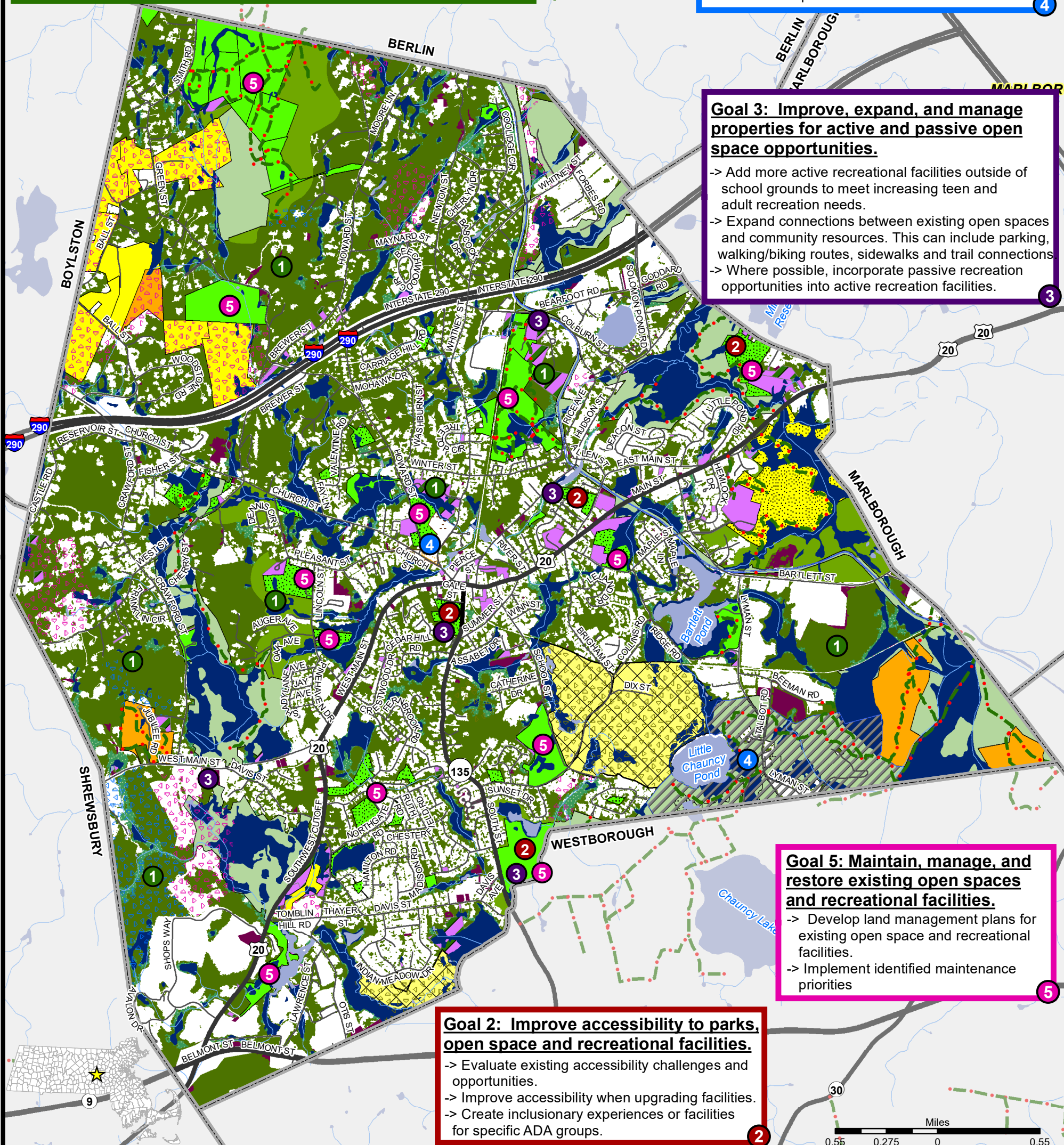
- > Add more active recreational facilities outside of school grounds to meet increasing teen and adult recreation needs.
- > Expand connections between existing open spaces and community resources. This can include parking, walking/biking routes, sidewalks and trail connections
- > Where possible, incorporate passive recreation opportunities into active recreation facilities.

5 Goal 5: Maintain, manage, and restore existing open spaces and recreational facilities.

- > Develop land management plans for existing open space and recreational facilities.
- > Implement identified maintenance priorities

2 Goal 2: Improve accessibility to parks, open space and recreational facilities.

- > Evaluate existing accessibility challenges and opportunities.
- > Improve accessibility when upgrading facilities.
- > Create inclusionary experiences or facilities for specific ADA groups.



Open Space Categories

Open Space Ownership Level of Protection		
 Federal	 Perpetuity*	
 State	 Limited	
 Municipal	 None	
 Private	* Open Space listed as "Perpetuity" will only show a solid Ownership color.	
 Non-Profit	Open Space data from MassGIS, current as of 08/2019	

 Town Owned Land (Improved)	 NHESP/TNC BioMap2 Core Habitat
 Town Owned Land (Vacant)	 Chapter Lands (FY2020)
 Vacant Land	 Chapter 61
 2016 LU/LC	 Chapter 61A
 Forest	 Chapter 61B
 Forested Wetland	

 Town Boundaries	 Water Bodies
 Streams	 MassDEP Wetlands
 Major Road	 Local Road
 Trails	

 MHC Historic Inventory Areas (08/2020)	 Nat'l Register of Historic Places
 Preservation Restriction	 Local Historic District

 0.55	 0.275	 0	 0.55
Miles			



Town of Northborough, Massachusetts

SECTION 10

PUBLIC COMMENTS



Required letters of support

- The Select Board,
- The Planning Board, and
- Central Massachusetts Regional Planning Commission (CMRPC).



TOWN OF NORTHBOROUGH

Town Offices
63 Main Street
Northborough, MA 01532-1994
(508) 393-5040 Phone
(508) 393-6996 Fax
www.town.northborough.ma.us

February 9, 2021

Ms. Melissa Cryan
Division of Conservation Services
Executive Office of Energy and Environmental Affairs
100 Cambridge Street, Suite 900
Boston MA 02114

RE: Northborough Open Space and Recreation Plan Update

Dear Ms. Cryan:

On behalf of the Northborough Board of Selectmen, I am pleased to offer this letter of support for the Open Space and Recreation Plan Update. Our Open Space Committee and staff have been working for the past year on creating this update. Through public meetings, surveying the residents of the community, meeting with other Boards, Committees and Commissions; and holding a public forum, participation has been widespread in creating this working document.

Our land use boards, in particular the Conservation Commission, Parks & Recreation Commission, Open Space Committee, and the Community Preservation Committee all benefit from having this document as a resource when considering future acquisitions for passive and active recreation.

We thank you for considering this Plan and for your support of our land protection efforts.

Sincerely,

Jason Perreault

Jason Perreault, Chairman
Board of Selectmen

Cc: Conservation Agent
Open Space Committee



TOWN OF NORTHBOROUGH PLANNING BOARD

Town Hall Offices • 63 Main Street • Northborough, MA 01532 • 508-393-5019 • 508-393-6996 Fax

January 11, 2021

Ms. Melissa Cryan
Division of Conservation Services
Executive Office of Energy and Environmental Affairs
100 Cambridge Street, Suite 900
Boston MA 02114

RE: Northborough Open Space and Recreation Plan Update

Dear Ms. Cryan:

On behalf of the Northborough Planning Board, I am pleased to offer this letter of support for the Open Space and Recreation Plan Update. Our Open Space Committee and staff have been working for the past year on creating this update. Through public meetings, surveying the residents of the community, meeting with other boards and commissions; and holding a public forum, participation has been widespread in creating this working document.

Our land use boards, specifically the Conservation Commission, Parks & Recreation Commission, Open Space Committee, Trails Committee, Planning Board, and the Community Preservation Committee all benefit from having this document as a resource when considering future acquisitions for passive and active recreation.

We thank you for considering this Plan and supporting our land protection efforts.

Sincerely,

Kerri Martinek, Chairperson
Planning Board



December 1, 2020

Melissa Cryan
Division of Conservation Services
Executive Office of Energy and Environmental Affairs
100 Cambridge St., Ste. 900
Boston, MA 02114

RE: Town of Northborough 2020 Open Space and Recreation Plan Update

Dear Ms. Cryan,

The Central Massachusetts Regional Planning Commission (CMRPC) is writing this letter in support of the Town of Northborough and its recently completed 2020 Open Space and Recreation Plan Update. The Town and its Open Space Committee are to be commended for their diligent work completing this Plan.

The Town and the Open Space Committee have done a very thorough job, and the final document appears to meet the standards for such plans as promulgated by your office. This plan highlights how Northborough continues to be a desirable place to live and examines the pressures associated with residential development. Northborough recognizes the need to balance new development with the need to protect open space and natural resources, as well as enhance recreation opportunities. In particular, this Plan articulates a need for enhanced protection for critical town-owned open spaces; improved trail systems and trail links on town-owned open spaces, increased outreach and promotion of the Town's open space and recreation opportunities; and increased access to safe walking and biking for all Town residents. Northborough's Plan provides the Town with specific guidance and action steps needed to accomplish its goals and objectives. This Plan also recognizes the need for partnerships with public and private entities to make its goals and objectives a reality. Many of these partnerships are currently being pursued by the Conservation Commission and Planning Board. Northborough will be well-served by having a State-approved, updated Plan in order to plan for its recreation facilities and programs, as well as to preserve and protect its valuable open spaces and natural resources.

Please consider this letter to be a demonstration of CMRPC's support for the Plan and the process used to develop it. We find Northborough's Plan to be fully consistent with CMRPC's Regional Open Space and Recreation Plan, our 2020 Growth Strategy for Central Massachusetts (2000), its 2011 update, and the Massachusetts Statewide Comprehensive Outdoor Recreation Plan.

Sincerely,

Trish Settles, AICP
Deputy Director Regional Collaboration and Community Planning

CC: Northborough Open Space Committee
Northborough Planning Board
Northborough Board of Selectmen

SECTION 11

REFERENCES



► TOWN OF NORTHBOROUGH OPEN SPACE AND RECREATION PLAN - 2019

- Central Massachusetts Regional Planning Commission. (2004). *2020 Growth Strategy for Central Massachusetts - An Update*. Worcester, Massachusetts: Central Massachusetts Regional Planning Commission.
- Central Massachusetts Regional Planning District, USDA Soil Conservation Service. (1965). *General Soil Areas Central Massachusetts Regional Planning District*. Worcester, Massachusetts: USDA Soil Conservation Service.
- Cohen, Deborah A., Kathryn Pitkin Derose, Bing Han, Stephanie Williamson, Terry Marsh, and Laura Raaen, City of Los Angeles Neighborhood Parks: Research Findings and Policy Implications (2003–2015). Santa Monica, CA: RAND Corporation, 2016. https://www.rand.org/pubs/research_reports/RR1573.html.
- Lancaster, R. (. (1990). *Recreation, Park, and Open Space Standards and Guidelines*. Ashburn, VA: National Recreation and Park Association.
- Mass Audubon (2020). *Losing Ground, 6th Edition*. Lincoln, Massachusetts: Massachusetts Audubon Society.
- Massachusetts Division of Conservation Services. (2008). *The Open Space Planner's Workbook*. Boston, MA: Commonwealth of Massachusetts Executive Office of Energy and Environmental Affairs, Department of Conservation and Recreation.
- Massachusetts Division of Conservation Services. (2008). *Open Space And Recreation Plan Requirements*. Boston, MA: Commonwealth of Massachusetts Executive Office of Energy and Environmental Affairs, Department of Conservation and Recreation.
- Massachusetts Executive Office of Energy and Environmental Affairs. (2017). *Massachusetts Outdoors 2017: Statewide Comprehensive Outdoor Recreation Plan*. Boston, Massachusetts: Commonwealth of Massachusetts.
- Massachusetts Historical Commission. (2020). *Massachusetts Cultural Resource Information System*. Retrieved 2020, from <http://mhc-macris.net/>
- Massachusetts Natural Heritage & Endangered Species Program. (2012). *BioMap and Living Waters: Guiding Land Conservation for Biodiversity in Massachusetts - Core Habitats of Northborough*. Boston, Massachusetts: Commonwealth of Massachusetts, Executive Office of Environmental Affairs, Division of Fisheries and Wildlife.
- MassGIS. (n.d.).
- NAICS Labor and Workforce Development infoUSA. (2020, February 27). *Largest 100 Employers in Northborough*. Retrieved February 27, 2020, from Massachusetts Department of Labor and Workforce Development: <https://lmi.dua.eol.mass.gov/LMI/LargestEmployersArea/LEAResult?A=05&GA=000269>
- Northborough Historic Commission*. (2009, July 29). Retrieved 2020, from <http://www.town.northborough.ma.us/nhc>
- Soil Conservation Service. (1976). *Inventory of Potential and Existing Upstream Reservoir Sites – Sudbury, Assabet & Concord Study Areas*. Worcester: USDA.
- Soil Conservation Service. (1985). *Soil Survey of Worcester County, Massachusetts - Northeastern Part*. Boston, Massachusetts: US Department of Agriculture.
- Town of Northborough, Massachusetts. (n.d.). *2018 Annual Report for the Town of Northborough, Massachusetts*. Retrieved 2020, from Town of Northborough, Massachusetts: https://www.town.northborough.ma.us/sites/northboroughma/files/uploads/2018_annual_report.pdf
- Town of Northborough, Massachusetts. (2019, April 22). *Northborough Zoning Bylaw (Proposed), Adopted at 2019 Annual Town Meeting, Awaiting Attorney General's Review*. Northborough, MA: Town of Northborough.
- University of Massachusetts Department of Forestry. (2005).
- US Census. (2010). 2010 Census Data. US Census Bureau.
- US Census Bureau. (n.d.).
- Worcester Registry of Deeds. (n.d.).

APPENDIX A

SURVEY





Northborough Open Space and Recreation Plan (OSRP) Survey 2019

Dear Northborough Community,

Please help the Town of Northborough update its Open Space and Recreation Plan (OSRP) by participating in this important survey. The survey is being conducted to understand the needs and concerns of the Northborough community regarding its open space and recreation facilities.

Open Space in this survey is defined as public and privately-owned undeveloped lands which are important for passive recreation, conservation, water resource protection, agriculture, forestry, and/or because of their scenic qualities and contribution to the character of the town. Recreational facilities or Recreation refer to land used for active recreational purposes, such as athletic fields or golf courses.

Please complete this survey by February 14, 2020. Responses of this survey will be anonymous.

A public forum will be held in March 2020 to share the survey results and gather additional comments.

We thank you for your help.

**Sincerely,
The Town of Northborough Open Space Plan Working Group**

with staff support from the Central Massachusetts Regional Planning Commission.



Northborough Open Space and Recreation Plan (OSRP) Survey 2019

1. To what extent do you agree or disagree with the following statement?

The Town of Northborough is adequately served by current Open Space and Recreational Facilities such as Town Common, hiking trails, athletic fields, playgrounds, etc.

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
Ranking	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

2. How often do you use the following recreation or open space areas in Northborough? (Check one box per row)

	At least once per week	At least once per month	1-10 times per year	I know about it but never go there	I don't know about this place or facility
Assabet Park	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Casey Field	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ellsworth McAfee Park	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Juniper Hill Golf Club	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Indian Meadows Golf Club	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Little Chauncy Pond Boat Ramp	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Memorial Field	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Edmund Hill Woods	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mt. Pisgah Conservation Area	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Watson Park at Bartlett Pond	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Westborough Wildlife Management Area/Cedar Hill Trails	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Carney Park	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Cold Harbor Trails	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Yellick & Suasco Trails	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Stirrup Brook Trails	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Schunder Conserv. Area & Trails (Green Street Trails)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Carlstrom II Trail	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Aqueduct Trails	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Other (please specify)

3. How would you rank the condition of the following recreation or open space areas in Northborough? (Check one box per row)

	Excellent	Good	Acceptable	Poor	I don't know about this place or facility
Assabet Park	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Casey Field	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ellsworth McAfee Park	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Juniper Hill Golf Club	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Indian Meadows Golf Club	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Little Chauncy Pond Boat Ramp	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Memorial Field	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Edmund Hill Woods	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mt. Pisgah Conservation Area	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Watson Park at Bartlett Pond	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Westborough Wildlife Management Area/Cedar Hill Trails	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Carney Park	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Cold Harbor Trails	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Yellick & Suasco Trails	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Stirrup Brook Trails	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Schunder Conserv. Area & Trails (Green Street Trails)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Carlstrom II Trail	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Aqueduct Trails	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Other (please specify)

4. What types of activities do you or members of your household participate in? (Check all that apply)

- School sponsored activities/ team sports
- Town and/or recreation commission sponsored activities
- Community/league activities (little league baseball, youth soccer leagues)
- Private/formal recreation (dance, karate, etc.)
- Informal (walking, hiking, skateboarding, running, cycling, etc.)
- Seasonal activities (snowshoeing, cross-country skiing, etc.)
- Passive recreation (appreciating nature, photography, bird watching, picnicking, reading/relaxing, etc.)
- Cultural events (concerts and activities at Ellsworth McAfee Park, festivals, etc.)
- Road races
- Other (please specify)

5. Regarding parks and recreation spaces and programming in Northborough:

	Very Satisfied	Satisfied	Neutral	Not Satisfied	Very Unsatisfied
How satisfied are you with recreation facilities for individuals <u>under the age of 6?</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
How satisfied are you with recreation facilities for individuals <u>ages 6 to 12?</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
How satisfied are you with recreation facilities for individuals <u>ages 12 to 18?</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
How satisfied are you with recreation facilities for <u>adults?</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
How satisfied are you with recreation facilities for <u>seniors?</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
How satisfied are you with the organized youth sports and recreation programs?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
How satisfied are you with the organized adult sports and recreation programs?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
How satisfied are you with the organized sports and recreation programs for seniors?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



Northborough Open Space and Recreation Plan (OSRP) Survey 2019

6. If you are a resident over the age of 50, what types of recreational activities would you like to see more readily available in town? (Check all that apply)

- I am not over the age of 50
- Walking groups
- Yoga, Tai-Chi, or other fitness classes
- Dance classes
- Games such as bocce, horseshoes, or badminton
- Pickleball
- Swimming
- Bicycling
- Arts and crafts
- Community gardening
- Bird watching, photography, or appreciating nature
- Board games, bingo, card games
- Boating or fishing
- Spiritual activities such as meditation
- Softball
- Tennis
- Golf
- Seasonal activities such as skiing or snowshoeing
- Health and wellness programs (cooking classes, healthy aging resources) Social activities such as pot-luck dinners
- Memory Cafes
- Music programs
- Book clubs
- Other (please specify)

7. How do you currently get information about open spaces, recreational opportunities and events in Northborough? (Check all that apply)

- Recreation Commission website
- School website
- Information from community groups or leagues
- Internet search
- Directly from the Town of Northborough website
- Word of mouth through family, friends, neighbors, etc.
- Flyers and signs around town
- Local newspapers such as the Community Advocate or the Metrowest Daily News
- Facebook
- Twitter
- Teachers and coaches
- Police and Fire officials
- Conservation Commission website
- Other (please specify)

8. How important is it to be able to access open space and natural areas, trails, recreation destinations, and historical sites in Northborough by walking or biking ?

	Very Important	Important	Neutral	Somewhat Important	Not Important
Importance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

9. How often do you travel to Northborough's open spaces and/or recreational facilities by walking or biking in season?

	Daily	Weekly	Monthly	Rarely	Never
Frequency	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

10. How important is the availability of designated and accessible parking areas for open space and natural areas, recreation areas, and historical sites in Northborough?

	Very Important	Important	Neutral	Somewhat Important	Not Important
Importance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



Northborough Open Space and Recreation Plan (OSRP) Survey 2019

11. Which types of facilities would you most like to see in Town?

	Most Interested	Somewhat Interested	Neutral	Not Interested	Least Interested
Softball fields	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Baseball fields	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Basketball courts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tennis courts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Pickleball courts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Soccer fields	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lacrosse / field hockey fields	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Football / rugby fields	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ice skating	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Swimming pool	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Track	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Golf course	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Disc / Frisbee golf	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Outdoor performance space	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Public access to water bodies for swimming / boating / fishing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Spray / splash park	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Community gardens	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Community recreation center/building	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Children's play areas	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Dog park	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Hiking / cross country skiing trails	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	Most Interested	Somewhat Interested	Neutral	Not Interested	Least Interested
Paved bike paths	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Unpaved bike paths / trails	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Bike lanes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Horseback riding / trails	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Conservation areas	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sidewalks (walking routes)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lawn games (horseshoes, bocce, shuffleboard, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

12. To what extent do you agree or disagree with the following statement?

The Town of Northborough would benefit from a fully accessible (ADA compliant) multi-use trail that interconnects with neighboring municipalities.

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
Ranking	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

13. How important is it to you to preserve and maintain the following in Northborough?

	Very Important	Important	Neutral	Somewhat Important	Not Important
Buildings of historical or architectural interest	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Places of historical value	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Farmlands	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Open spaces to meet our water and conservation needs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Open spaces to maintain wildlife corridors and important habitat	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Open spaces to mitigate stormwater runoff and reduce the effects of flooding from extreme weather	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Open spaces to meet our aesthetic, scenic or passive recreation needs (forests, trails, etc)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Recreational facilities such as athletic fields	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

14. What Town actions do you favor to preserve open space? Please check all that apply.

	Action
Reach out to landowners regarding donation of land or provisions for public access	<input type="checkbox"/>
Receipt of conservation restrictions	<input type="checkbox"/>
Purchase of land	<input type="checkbox"/>
Zoning for open space conservation	<input type="checkbox"/>
Mandatory dedication of open space by developers	<input type="checkbox"/>
Purchase of development rights	<input type="checkbox"/>
Property tax reduction program for forestry, farm and recreation land	<input type="checkbox"/>

Other (please specify)

15. Please indicate your support for TOWN FUNDING for the following objectives (check one box per row).

	Strongly Support	Somewhat Support	Neutral	Little Support	Do Not Support	No Opinion
Acquiring land for new public athletic and recreation fields	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Improvements to existing athletic and recreation fields	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Construction of new playground facilities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Improvements to existing playground facilities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Increase open space to protect Town water resources, including groundwater protection	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Provide public access to water resources in town	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	Strongly Support	Somewhat Support	Neutral	Little Support	Do Not Support	No Opinion
Acquiring conservation lands for passive recreation use (e.g., trails)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Expanding connectivity between existing hiking trails	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Expanding available parking at open space destinations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Expanding available parking at recreational destinations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Expanding connections for walking (e.g. sidewalks, connecting trails)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Expanding connections for biking (e.g. off-road paths and on-road lanes)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Increase general maintenance of existing grounds, buildings and/or landscape	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

What do you recommend?

16. The Community Preservation Act (CPA) is funded through a local option surcharge on property tax bills and a state match. Northborough originally voted to enact the CPA with a 1.5% surcharge compared to the maximum allowable surcharge of 3%. Would you support an increased CPA surcharge to implement any of the objectives you indicated you "Strongly Support" above?

- Yes
- No

Additional comment?



Northborough Open Space and Recreation Plan (OSRP) Survey 2019

17. Additional Comments: Please use this opportunity to submit any additional comments that you feel are important to Northborough's open space and recreation planning and protection efforts. Your input is highly valued.



Northborough Open Space and Recreation Plan (OSRP) Survey 2019

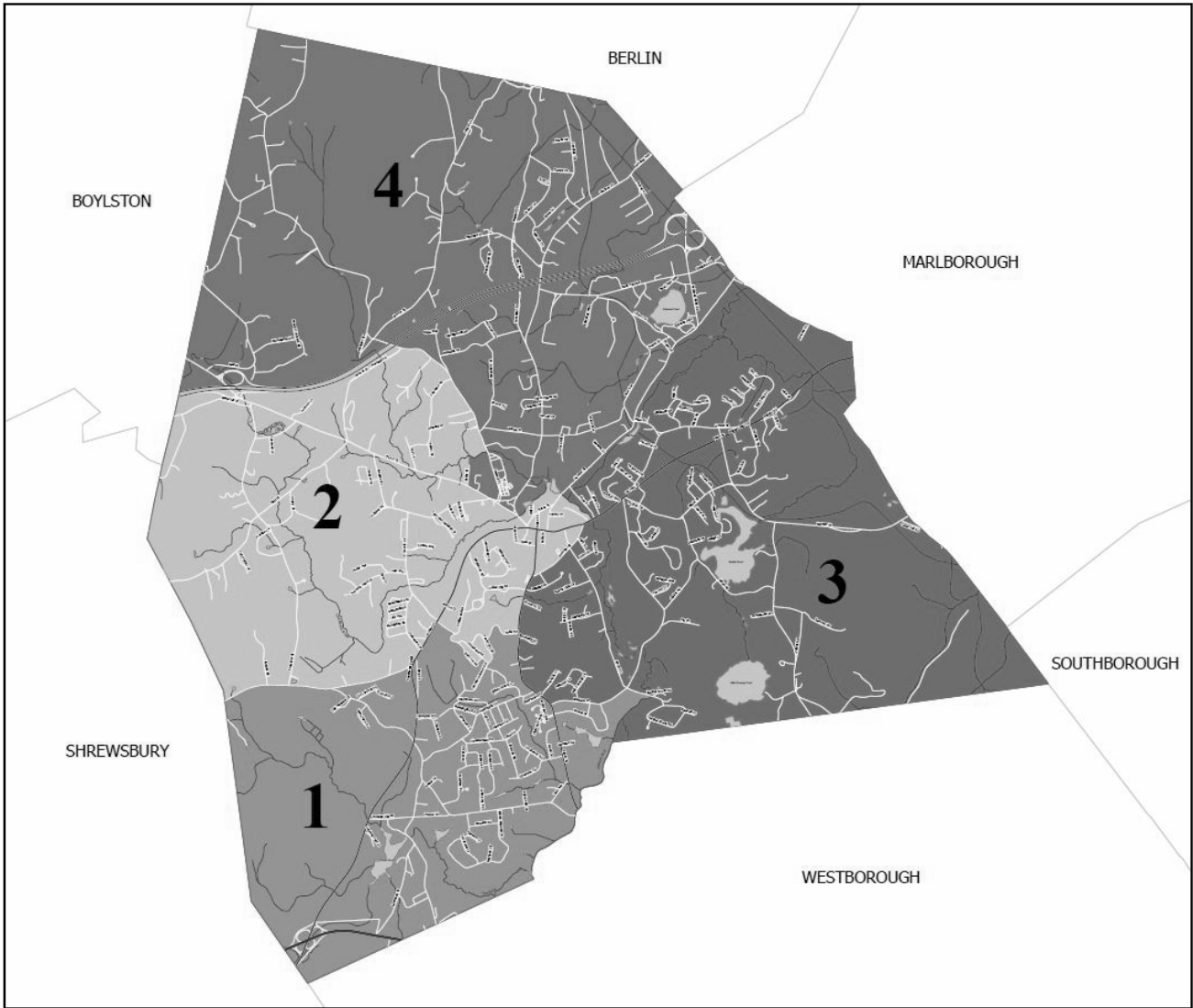
Demographic Information *** OPTIONAL ***

18. What is your age?

- | | |
|--|--|
| <input type="radio"/> Less than 10 years old | <input type="radio"/> 36 to 45 years old |
| <input type="radio"/> 11 to 18 years old | <input type="radio"/> 46 to 55 years old |
| <input type="radio"/> 19 to 25 years old | <input type="radio"/> 56 to 65 years old |
| <input type="radio"/> 26 to 35 years old | <input type="radio"/> over 65 years old |

19. Using the map below please indicate in which voting precinct you live.

- 1
- 2
- 3
- 4
- I do not live in Town



20. ***Optional***

Your contact information will make it possible for us to...

- 1) see who is responding to the survey
- 2) provide you with updates on the Open Space and Recreation Plan (including the date, time and location of the public forum), and
- 3) identify and contact potential volunteers

Name:	<input type="text"/>
Company:	<input type="text"/>
Address:	<input type="text"/>
Address 2:	<input type="text"/>
City/Town:	<input type="text"/>
State:	<input type="text" value="-- select state --"/>
ZIP/Postal Code:	<input type="text"/>
Email Address:	<input type="text"/>



Northborough Open Space and Recreation Plan (OSRP) Survey 2019

Thank you for your input. We greatly appreciate your involvement.

Sincerely,

The Northborough Open Space Committee and Recreation Commission

With staff support from:

**Northborough Planning & Recreation Departments; and
Central Massachusetts Regional Planning Commission (CMRPC)**

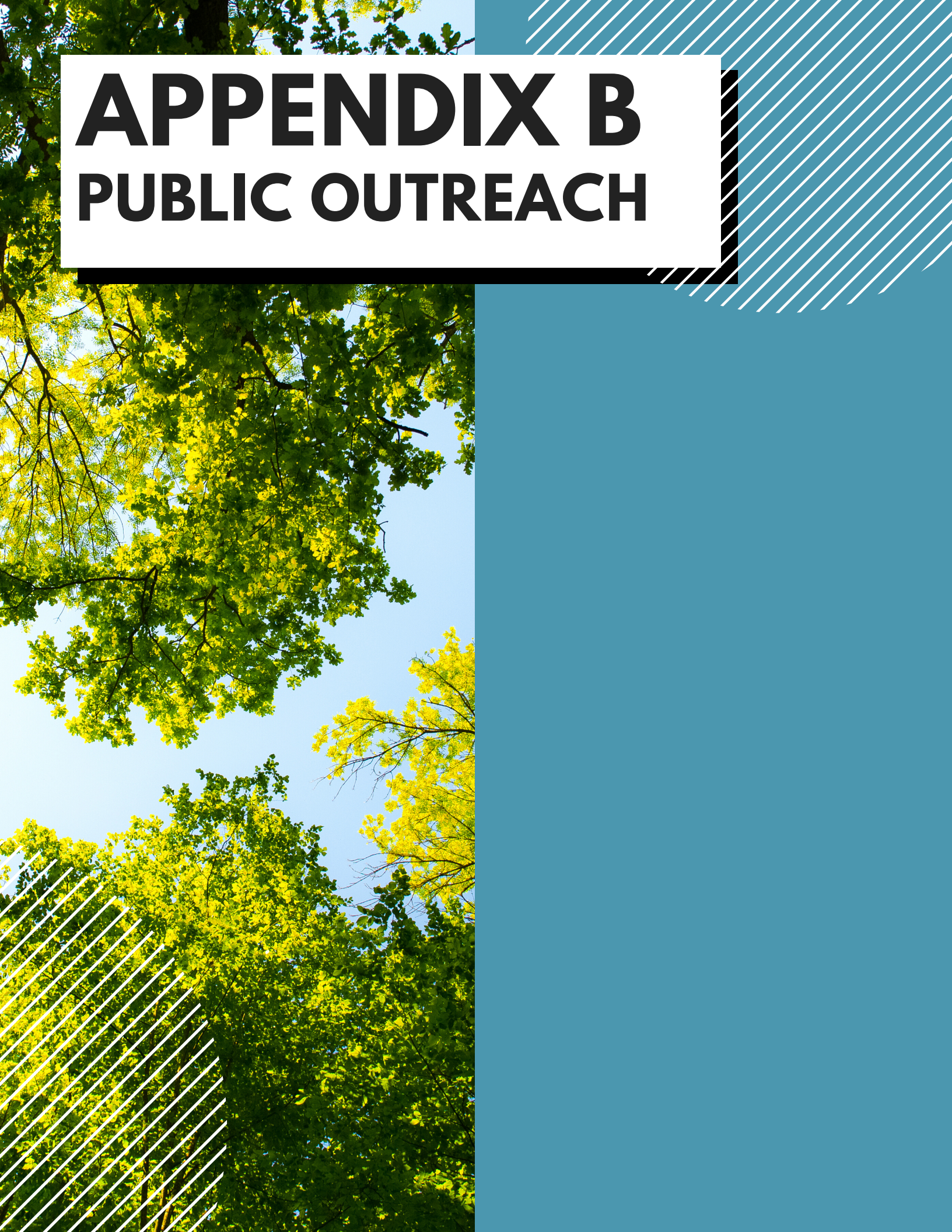
If you have further comments or questions, or if you are interested in volunteering on matters related to open space and recreation, please contact conservation@town.northborough.ma.us, or visit or call the Town Planning office at 508-303-5019.

**Please mail or deliver all hard copy responses to the Town Clerk's office at the Town Hall located at:
Town of Northborough
63 Main Street
Northborough, MA 01532**

**Or drop off to staff at the following locations:
Northborough Senior Center
Northborough Library circulation desk**

APPENDIX B

PUBLIC OUTREACH



Northborough Open Space & Recreation Plan 2020 Update Public Forum

Join us via
Zoom



Just point your phone's camera at the QR code. No app needed.

We want to hear from you!
September 16th at 7pm
***[www.town.northborough.ma.us/
open-space-committee](http://www.town.northborough.ma.us/open-space-committee)***



Northborough Open Space & Recreation Plan 2020 Update Public Forum

We want to hear from you!
September 16th at 7pm
Join us via Zoom

Please click this URL to join:

<https://town-northborough-ma-us.zoom.us/j/89698673848>

Or join by phone: US: +1 646 876 9923

Webinar ID: 896 9867 3848 Passcode: 564770



YOU'RE INVITED

TO LEARN MORE & PROVIDE FEEDBACK ABOUT

NORTHBOROUGH'S

OPEN SPACE AND RECREATION PLAN



An updated Open Space and Recreation Plan will allow Northborough to maintain and enhance open space and recreation areas that define the character of our community.

Join the Northborough Open Space Committee for a virtual Public Forum to learn more about the plan and the results of the community survey.

**09
16
20**

7PM - 8:30PM

VIA ZOOM

**PLEASE RSVP TO SARAH AT SADAMS@CMRPC.ORG
BY 5PM ON 9. 15. 2020.**

Zoom meeting links and presentation materials will be provided in advance of the meeting.



APPENDIX C

PUBLIC FORUM AGENDA



TOWN OF NORTHBOROUGH Open Space Committee

Town Hall Offices • 63 Main Street • Northborough, MA 01532 • 508-393-5019 • 508-393-6996 Fax

MEETING AGENDA

September 16, 2020

Open Space Committee: Open Space and Recreation Plan Update Public Forum

7:00pm

Location: Remote Access Only

Pursuant to Governor Baker's March 12, 2020 Order Suspending Certain Provisions of the Open Meeting Law, G.L. c. 30A, §18, and the Governor's March 15, 2020 Order imposing strict limitation on the number of people that may gather in one place, this meeting of the Northborough Open Space Committee will be conducted via remote participation. No in-person attendance by members of the public will be permitted.

Please click this URL to join. <https://town-northborough-ma-us.zoom.us/j/89698673848>

Passcode: 564770

Or join by phone:

US: +1 646 876 9923

Webinar ID: 896 9867 3848

- **Introductions and Opening Remarks**
- **Presentation by Sarah Adams, Senior Planner at Central MA Regional Planning Commission**
 - Open Space and Recreation Plan: purpose, process, goals/objectives and the results of survey.
 - Video
- **Discussions**
 1. Indoor and Outdoor Recreational Facilities
What is satisfactory? What programs/facilities are needed or need to be improved?
 2. Open Spaces for Preservation/Conservation, Scenic Areas and Routes
What is needed, and what/where are parcels of land that should be protected?
 3. Connectivity and Passive Recreation (walking, hiking, biking, xc skiing, snowmobiling)
What is needed to improve and expand trails and connectivity?
- **Closing and Next Steps**

Other Business As May Legally Come Before the Committee

Next Meeting: Monday, September 28

Adjourn

Cc	Town Clerk	Town Administrator
	Town Planner	Town Engineer
	Recreation Director	DPW Director
	Conservation Commission	Trails Committee

APPENDIX D

PUBLIC FORUM PPT



Town of Northborough

Open Space and Recreation Plan Community Forum

SEPTEMBER 16, 2020

VIA REMOTE PARTICIPATION




Meeting Agenda

- X Welcome and Purpose
- X Presentation of OSRP Highlights and Survey Results
- X Group Discussions and Mapping Activity
- X Next Steps




Why Plan for Open Space & Recreation?

- X A community with an approved Plan becomes eligible to apply for Self-Help, Urban Self-Help, Land and Water Conservation Funds, and other state grant programs
 - X Plan requires update every 7 years
 - X Most recent Plan was approved by the Executive Office of Energy and Environmental Affairs (EOEEA) in 2010
- 



Why Plan for Open Space & Recreation?

- X Open space “is as important to the economic future of a community as planning for schools, roads, water, and wastewater infrastructure.”
 - X Obtain the benefits of development without losing valued environmental assets
 - X Help communities avoid misusing or overwhelming available resources
- 





Planning Process

Community Organization

- X Town Planning Department collaborating with CMRPC
- X Open Space and Recreation Committee

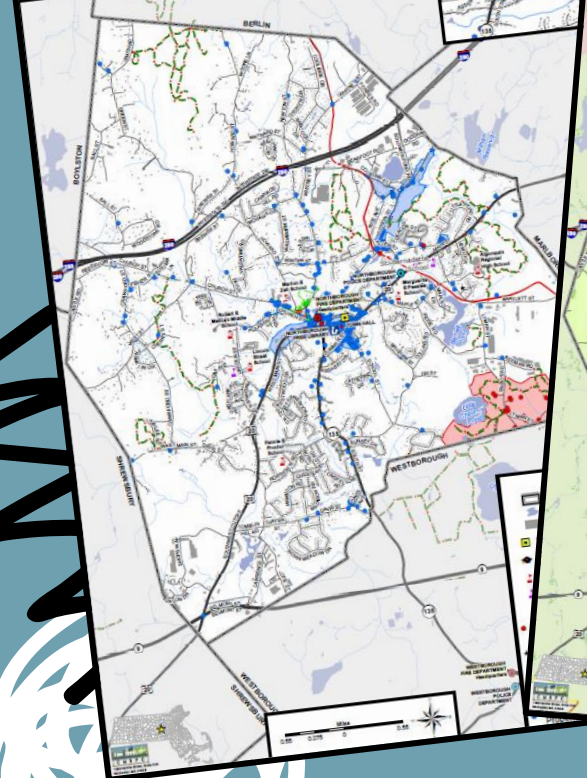
Data Collection

- 
- X Community profile: demographic, housing, other data from the American Census, State, and other sources
 - X Environmental issues and concerns
 - X Water quality
 - X Inventory of open spaces
 - X ADA Assessment of Town-owned recreational facilities
- 

UNIQUE FEATURES OPEN SPACE AND RECREATION PLAN

Source Data provided by the Town of Westborough, GIS/IT Department, Office of Geographic Information Systems, Department of Information Technology Services.

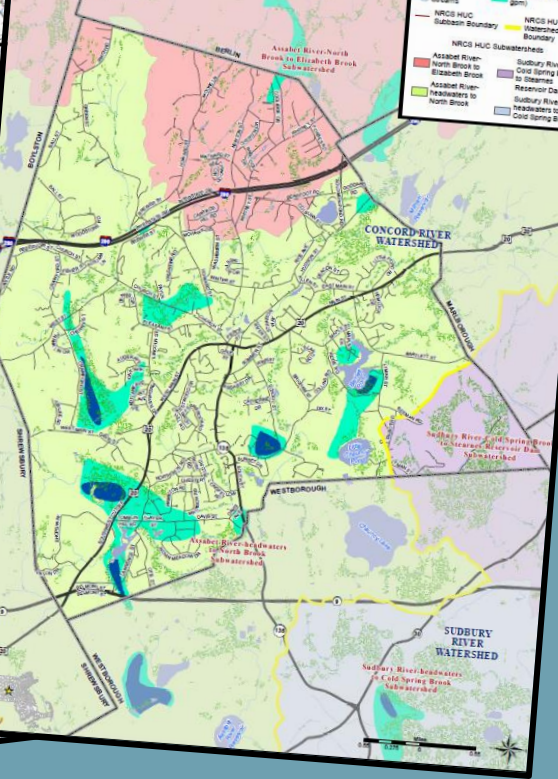
Information depicted on this map is preliminary and not intended for use in any legal proceeding. The information is provided for informational purposes only. The information is not intended to be used for any legal proceeding, or for any other purpose.



WATER RESOURCES MAP (PART A) OPEN SPACE AND RECREATION PLAN

Source Data provided by the Town of Westborough, GIS/IT Department, Office of Geographic Information Systems, Department of Information Technology Services.

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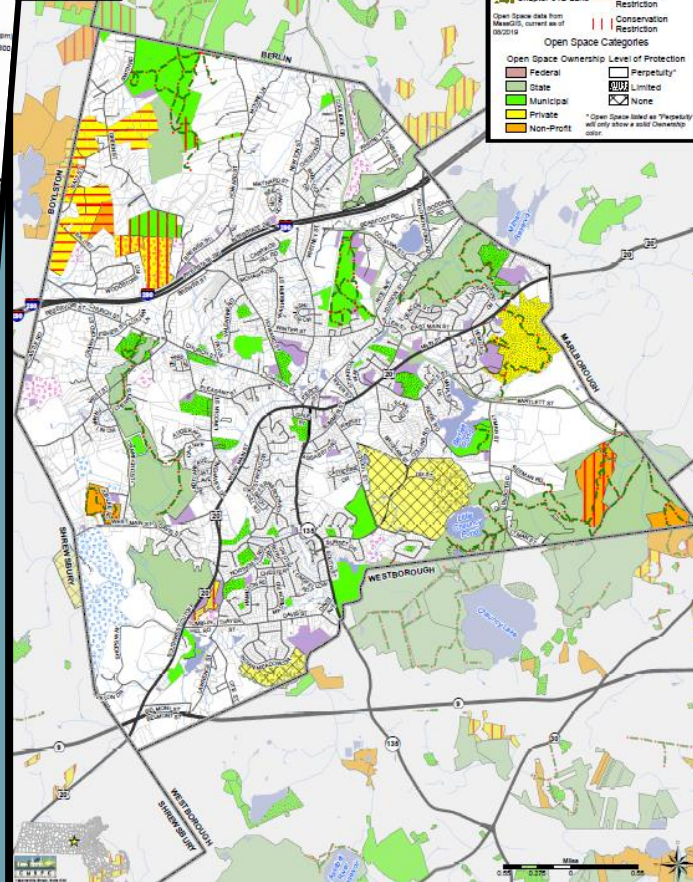


- LEGEND**
- Town Boundaries
 - Major Road
 - Local Road
 - Water Bodies
 - Streams
 - NRCS HUC Subwatershed Boundary
 - NRCS HUC Watershed Boundary
 - Assabetz River - North Brook to Elizabeth Brook Subwatershed
 - Assabetz River - South Brook to Elizabeth Brook Subwatershed
 - Sudbury River - Old Spring Brook to Reservoir Dam Subwatershed
 - Sudbury River - Reservoirs to North Brook Subwatershed
 - Old Spring Brook
 - DEP Wetlands
 - High Yield (> 300 gpm)
 - Medium Yield (100-300 gpm)
 - NRCS HUC Subwatershed
 - Assabetz River - Old Spring Brook to Reservoir Dam
 - Sudbury River - Reservoirs to Old Spring Brook

OPEN SPACE INVENTORY OPEN SPACE AND RECREATION PLAN

Source Data provided by the Town of Westborough, GIS/IT Department, Office of Geographic Information Systems, Department of Information Technology Services.

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- LEGEND**
- Town Boundaries
 - Water Bodies
 - Streams
 - Chapter 61A Land
 - Chapter 61B Land
 - Open Space date from GIS/IT, current as of 09/2019
 - Major Road
 - Local Road
 - Trails
 - Town Owned Land
 - Agricultural Preservation Restriction
 - Conservation Restriction
 - Open Space Categories
 - Level of Protection
 - Federal
 - State
 - Municipal
 - Private
 - Non-Profit
 - Perpetuity
 - Limited
 - None
- * Open Space listed as "Wetlands" will only show a solid Ownership color.



Planning Process

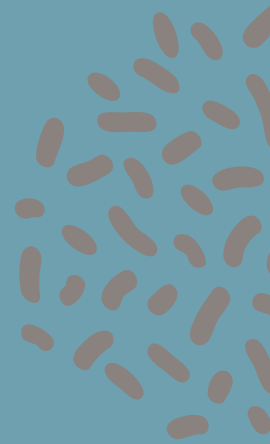
Community Input

- X Survey
- X Community Forum

Document Preparation and Review

Submit Plan Update to the State

Review and Acceptance



Survey Methodology

X Survey was available online and in hard copy at the following locations:

- Planning Office at Town Hall
- Northborough Senior Center

X Survey was open from January 21 to March 20, 2020

X Total responses collected: **495**

Northborough Open Space and Recreation Plan (OSRP) Survey

Dear Northborough Community,

Please help the Town of Northborough update its Open Space and Recreation Plan. This is an important survey. The survey is being conducted to understand the needs and desires of the community regarding its open space and recreation facilities.

Open Space in this survey is defined as public and privately-owned land used for passive recreation, conservation, water resource protection, agriculture, and other qualities and contribution to the character of the town. **Recreation** is defined as active recreational purposes, such as athletic fields or golf courses.

Please complete this survey by February 24, 2020. Revisions to the plan will be made based on the survey results.

A public forum will be held in March 2020 to share the results of the survey.

We thank you for your help.

Sincerely,
The Town of Northborough Open Space Plan Committee

with staff support from the Central Massachusetts Office of Planning and Economic Development

1. To what extent do you agree or disagree with the following statement?
The Town of Northborough is adequately served by current Open Space and Recreation facilities, such as Town Common, hiking trails, athletic fields, playgrounds, etc.

2. How often do you use the following recreation or open space areas in Northborough?
(per row)

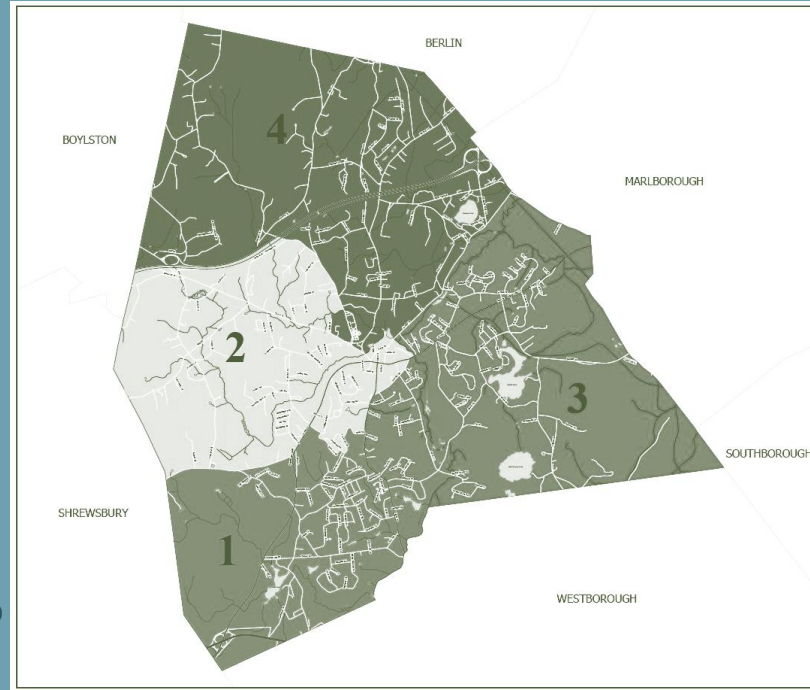
Ranking	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
Assabet Park	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Casey Field	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Elisworth McAfee Park	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Juniper Hill Golf Club	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Indian Meadows Golf Club	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Little Chauncy Pond Boat Ramp	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Memorial Field	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Edmund Hill Woods	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mt. Pisgah Conservation Area	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Watson Park at Bartlett Pond	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Westborough Wildlife Management Area/Cedar Hill Trails	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Carney Park	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Cold Harbor Trails	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Yellok & Suasco Trails	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Strrup Brook Trails	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Schunder Conserv. Area & Trails (Green Street Trails)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Caristrom II Trail	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Aqueduct Trails	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other (please specify)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Survey Response Rate

Precinct 4:
27.5%

Precinct 2:
23.4 %

Precinct 1:
20%



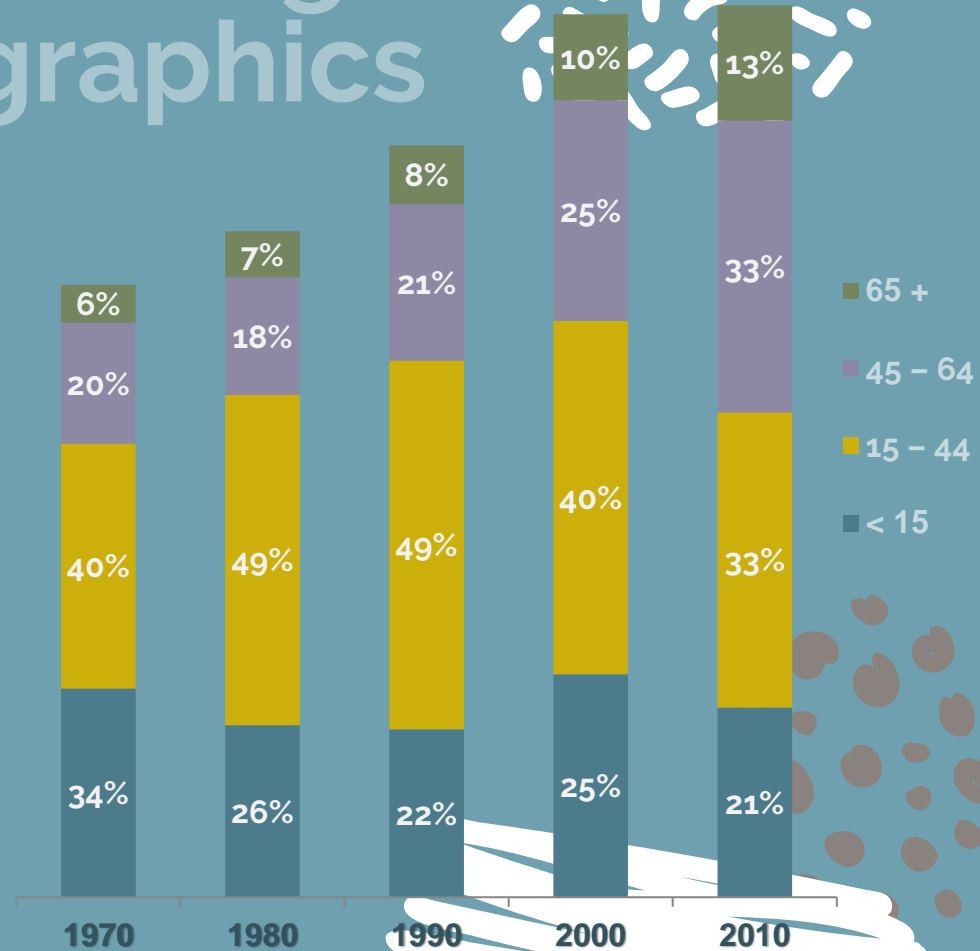
Precinct 3:
27.5%

**1.6% of respondents
do not live in Town.**

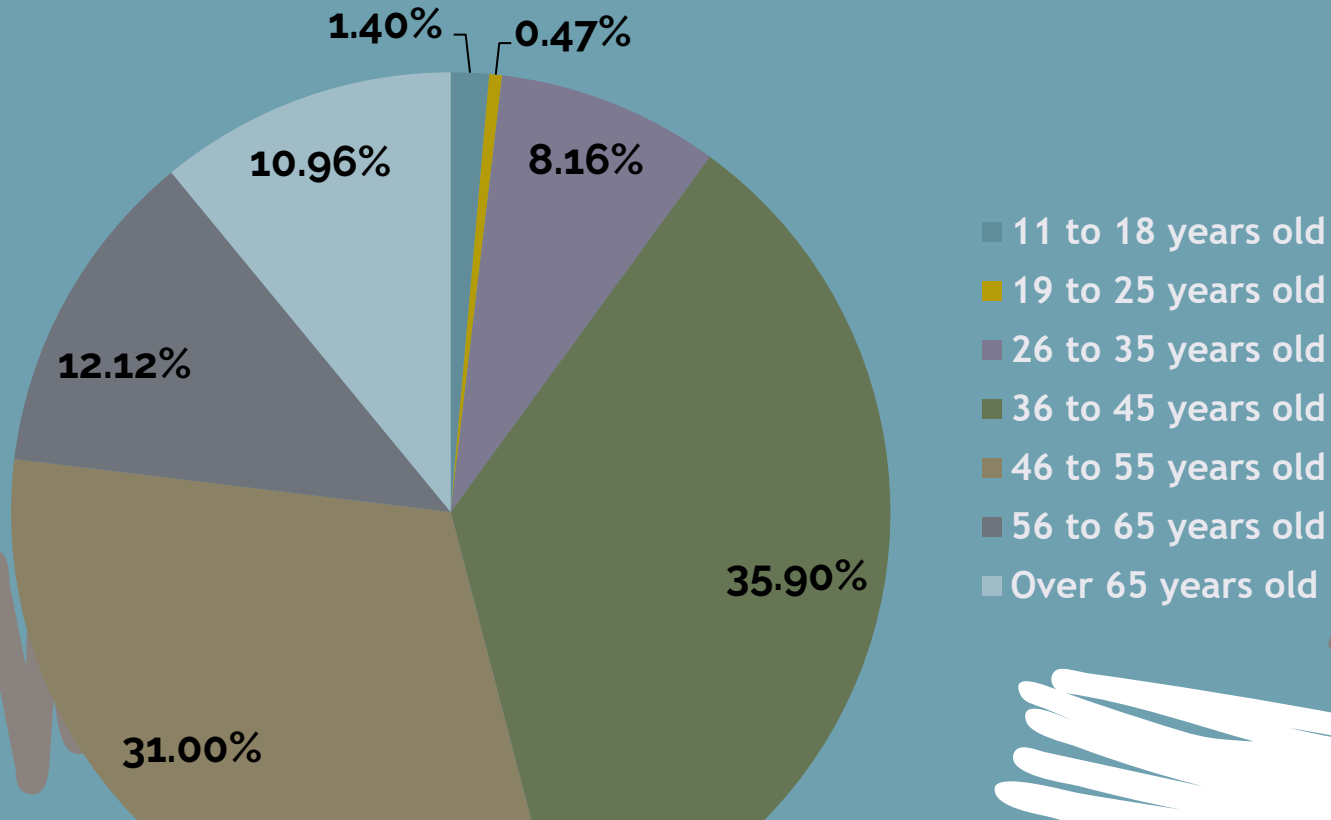
Northborough Demographics

Age Distribution

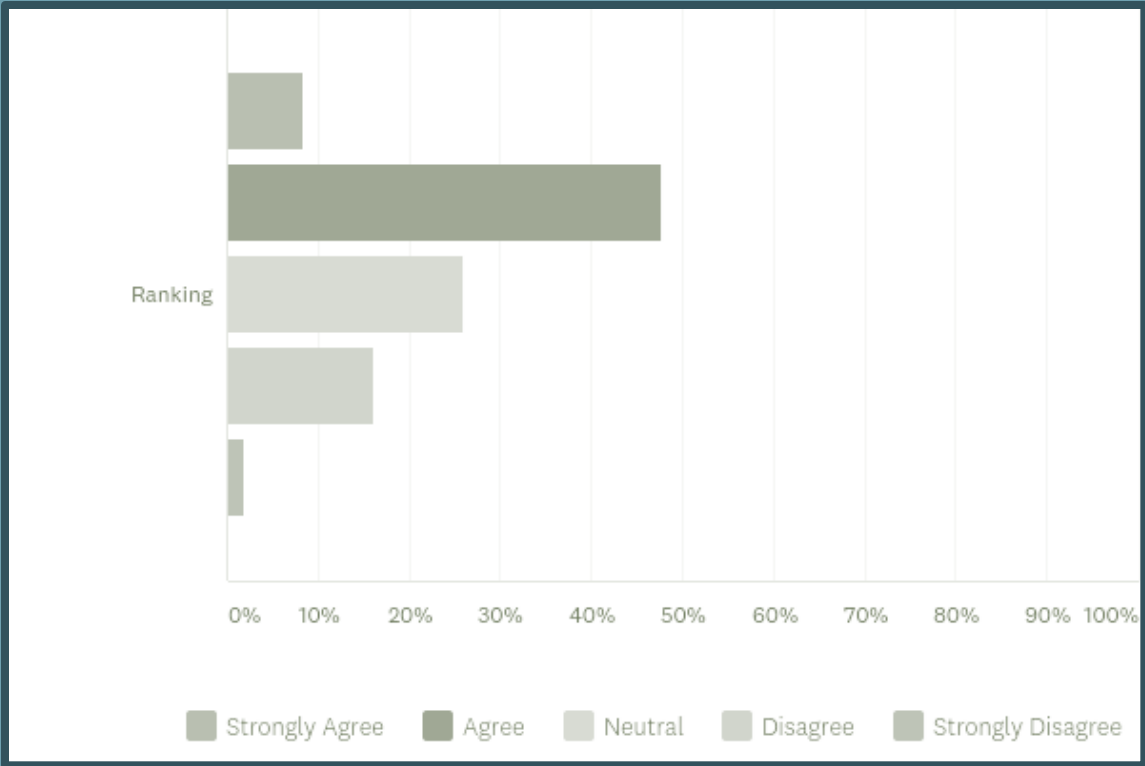
	< 15	15 - 44	45 - 64	65 +
1970	3,312	3,886	1,919	601
1980	2,730	5,240	1,864	734
1990	2,665	5,853	2,476	935
2000	3,537	5,609	3,497	1,370
2010	3,010	4,685	4,631	1,829



Respondent Age Distribution



Q1: Northborough is adequately served by current Open Space and Recreational Facilities such as Town Common, hiking trails, athletic fields, playgrounds, etc.



56%
of respondents agree
or strongly agree

18%
of respondents
disagree or strongly
disagree

Q2: How often do you use recreation or open space areas in Northborough?

4.6% of respondents indicated that they visited an open space or recreation area at least once a week.

7% of respondents visit Casey Field at least once a week, and another **8%** visit at least once per month.


7% of respondents visit Carney Park at least once a week, and another **7%** visit at least once per month.

24% of respondents visit Ellsworth McAfee Park at least once a week, and another **25%** visit at least once per month.


40% or more of respondents indicated that they did not know about Watson Park at Bartlett Pond, **Westborough Wildlife Management Area**, Cold Harbor Trails, **Yellick & Suasco Trails**, Stirrup Brook Trails, **Schunder Conservation Area & Trails**, Aqueduct Trails, and **Carlstrom II Trail (72%)**.

Q3: How would you rank the condition of the following recreation or open space areas in Northborough?

33% of respondents thought that Northborough open space or rec areas were in either Excellent or Good condition.



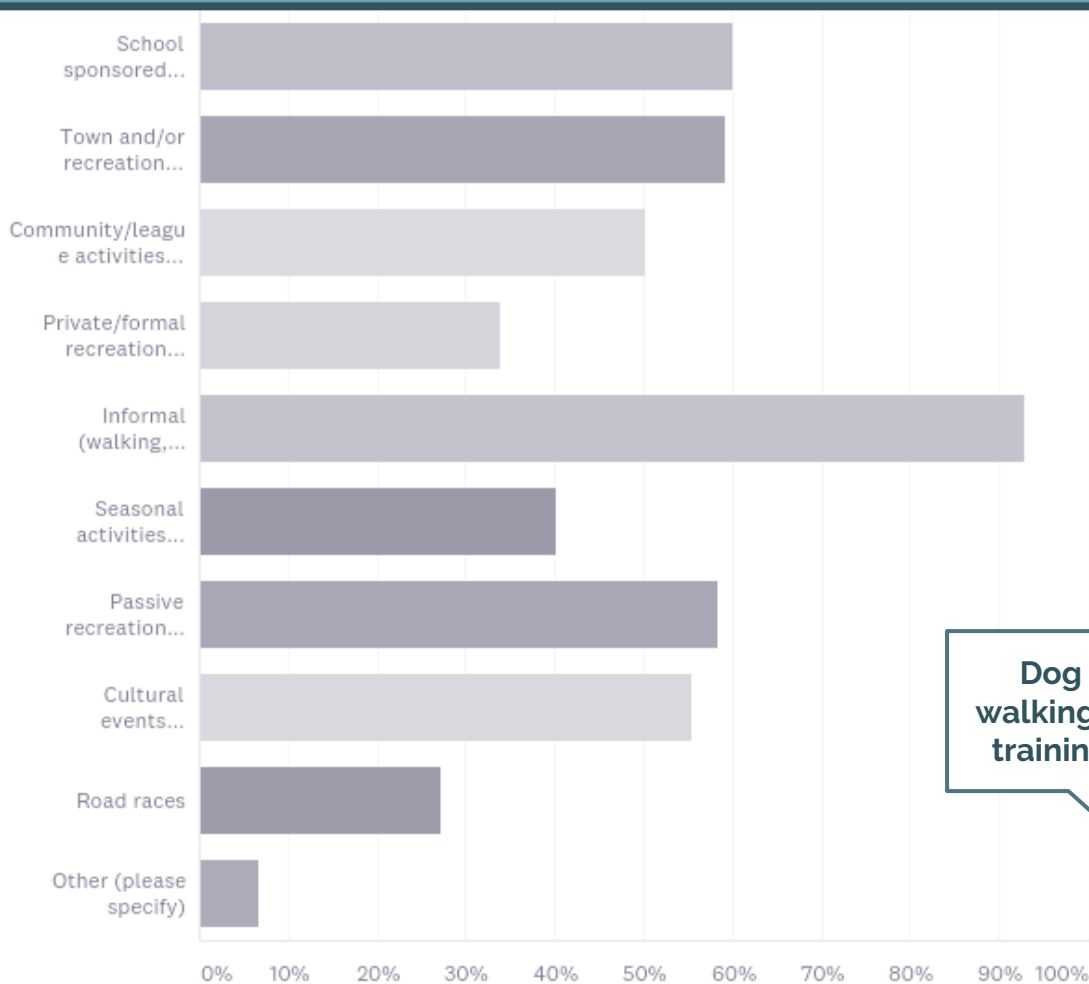
66% of respondents said that Assabet Park was in “Excellent” or “Good” condition.



84% of respondents said that Ellsworth McAfee Park was in “Excellent” or “Good” condition.

The majority of respondents indicated that they did not know about Indian Meadows Golf Club, Little Chauncy Pond Boat Ramp, Edmund Hill Woods, Carlstrom II Trail, Watson Park at Bartlett Pond, Westborough Wildlife Management Area, Cold Harbor Trails, Yellick & Suasco Trails, Stirrup Brook Trails, Schunder Conservation Area & Trails, and Aqueduct Trails.

Q4: What types of activities do you or members of your household participate in? (Check all that apply)



Q5: Regarding parks and recreation spaces and programming in Northborough:

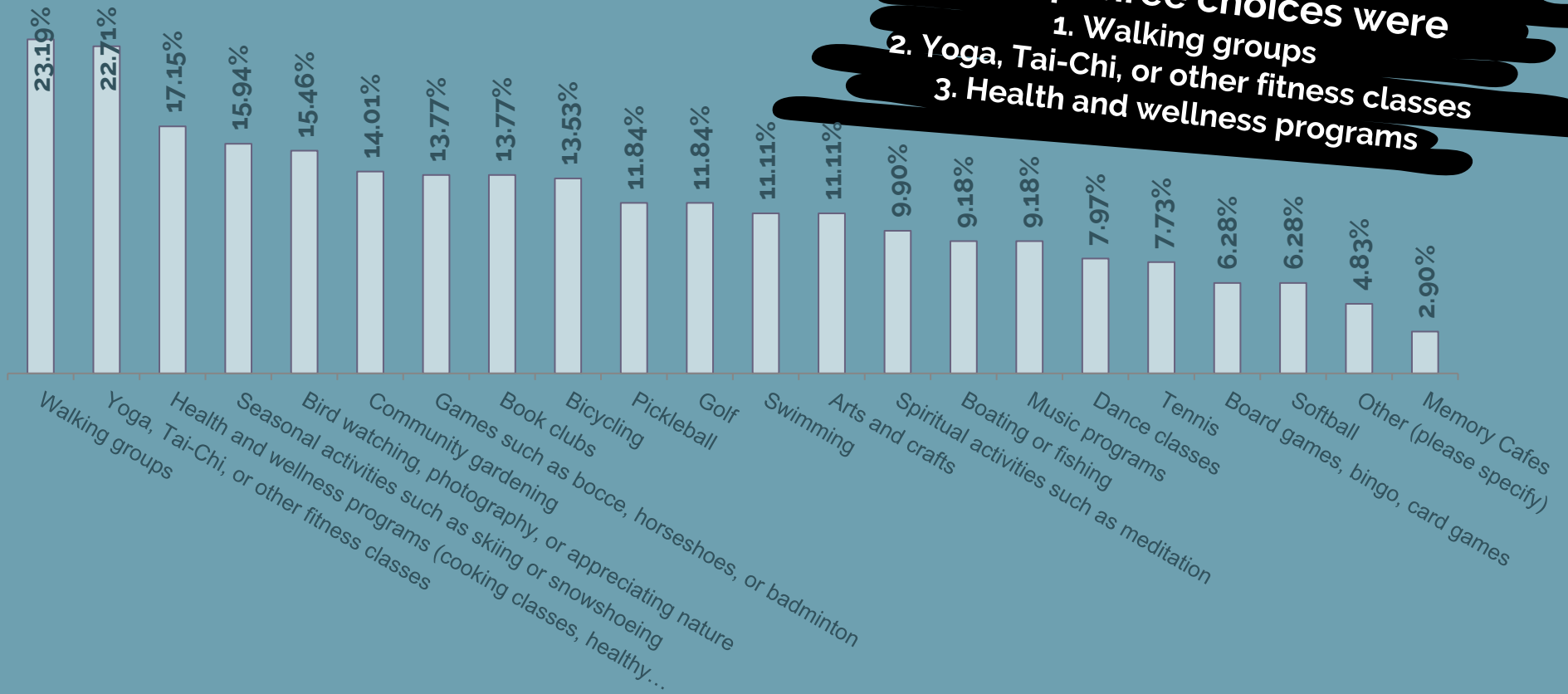
The majority of respondents indicated that they were at least satisfied with rec facilities and programming for **youth**.

The majority of respondents indicated that they were at least satisfied with rec facilities for **adults**.

33% of respondents indicated that they were at least satisfied with rec facilities, and **23%** were at least satisfied with rec programming for **seniors**.

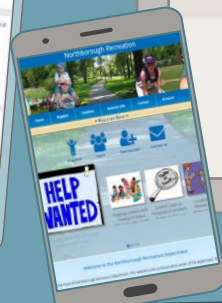
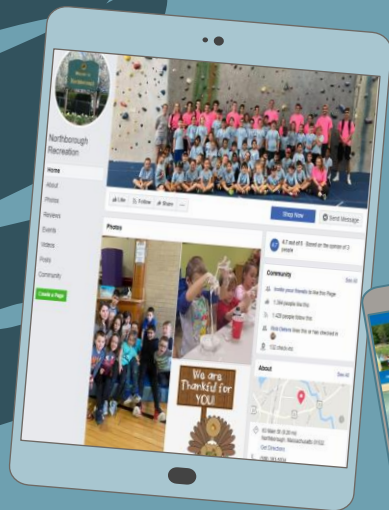
	VERY SATISFIED	SATISFIED	NEUTRAL	NOT SATISFIED	VERY UNSATISFIED
How satisfied are you with recreation facilities for....					
Individuals under the age of 6	20.6%	39.05%	34.9%	5.42%	0.43%
Individuals ages 6 - 12	18.26%	42.4%	33.7%	5.65%	0.65%
Individuals ages 12 - 18	12.47%	29.4%	46.77%	11.36%	1.78%
Adults	11.56%	40.47%	33.62%	14.35%	1.28%
Seniors	10.41%	22.85%	60%	6.79%	1.4%
How satisfied are you with organized sports and recreation for...					
Youth	23.87%	43.66%	28.41%	4.09%	0%
Adults	7.35%	17.59%	61%	14.03%	1.56%
Seniors	6.36%	17.05%	70.9%	5.68%	1.14%

Q6: If you are a resident over the age of 50, what types of recreational activities would you like to see more readily available in town?



Q7: How do you currently get information about open spaces, recreational opportunities and events in Northborough?

The majority of respondents get information from friends and family through word of mouth (64%)



or online via Facebook, the Recreation Commission website or the Town of Northborough website (47%, 40%, 41%)



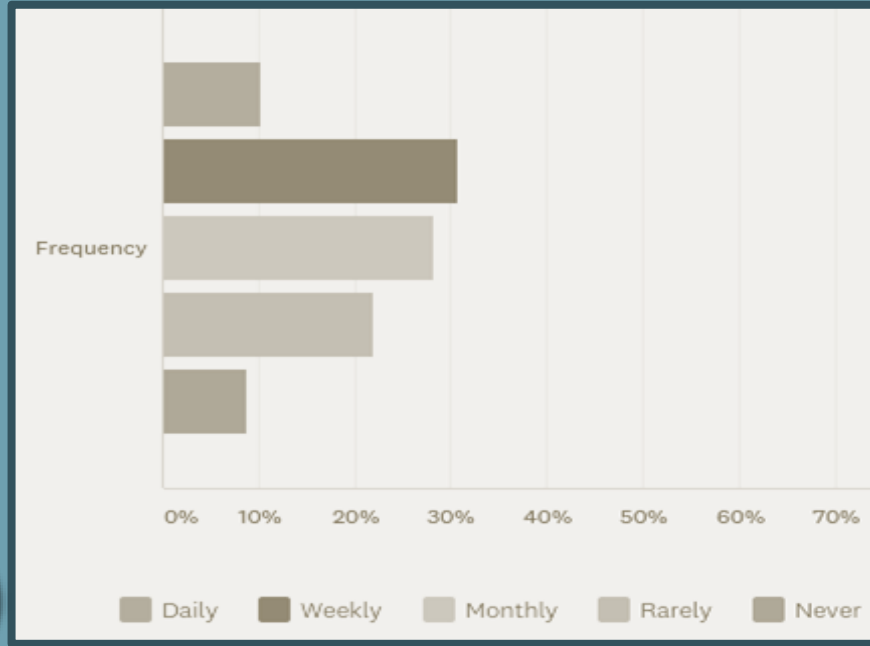
Q8: How important is it to be able to access open space and natural areas, trails, recreation destinations, and historical sites in Northborough by walking or biking?



91%

said Very Important (69%)
or Important (22%)

Q9: How often do you travel to Northborough's open spaces and/or recreational facilities by walking or biking in season?

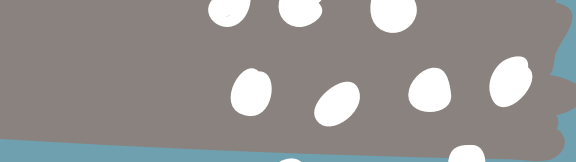


10%

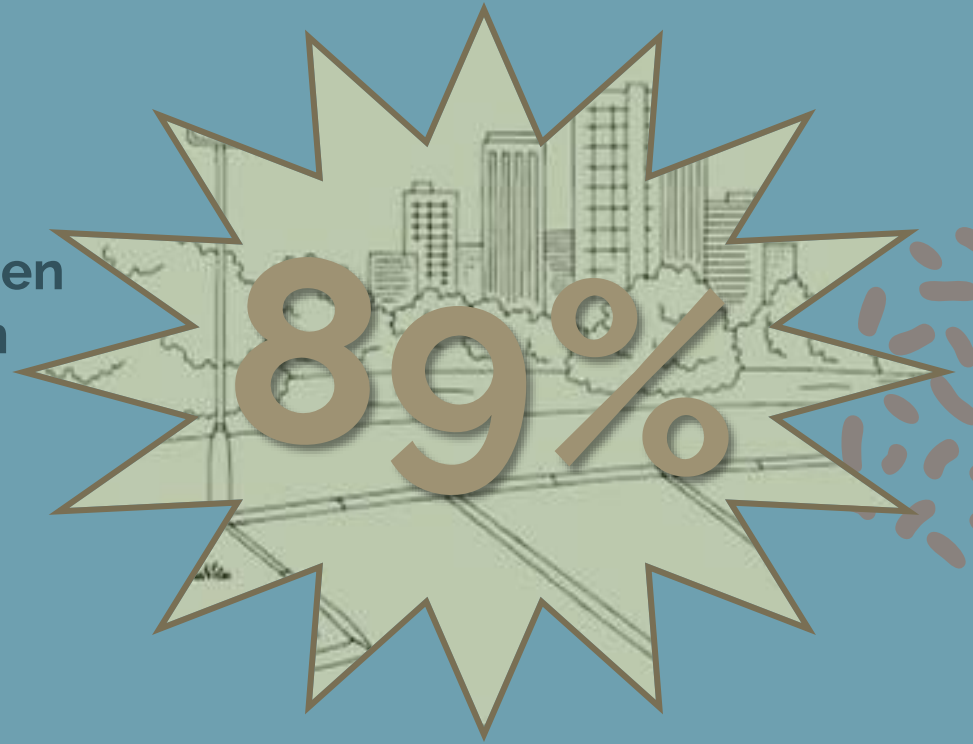
travel to open spaces/ rec facilities by walking or biking daily

9%

never travel to Northborough's open spaces and recreational facilities by walking or biking

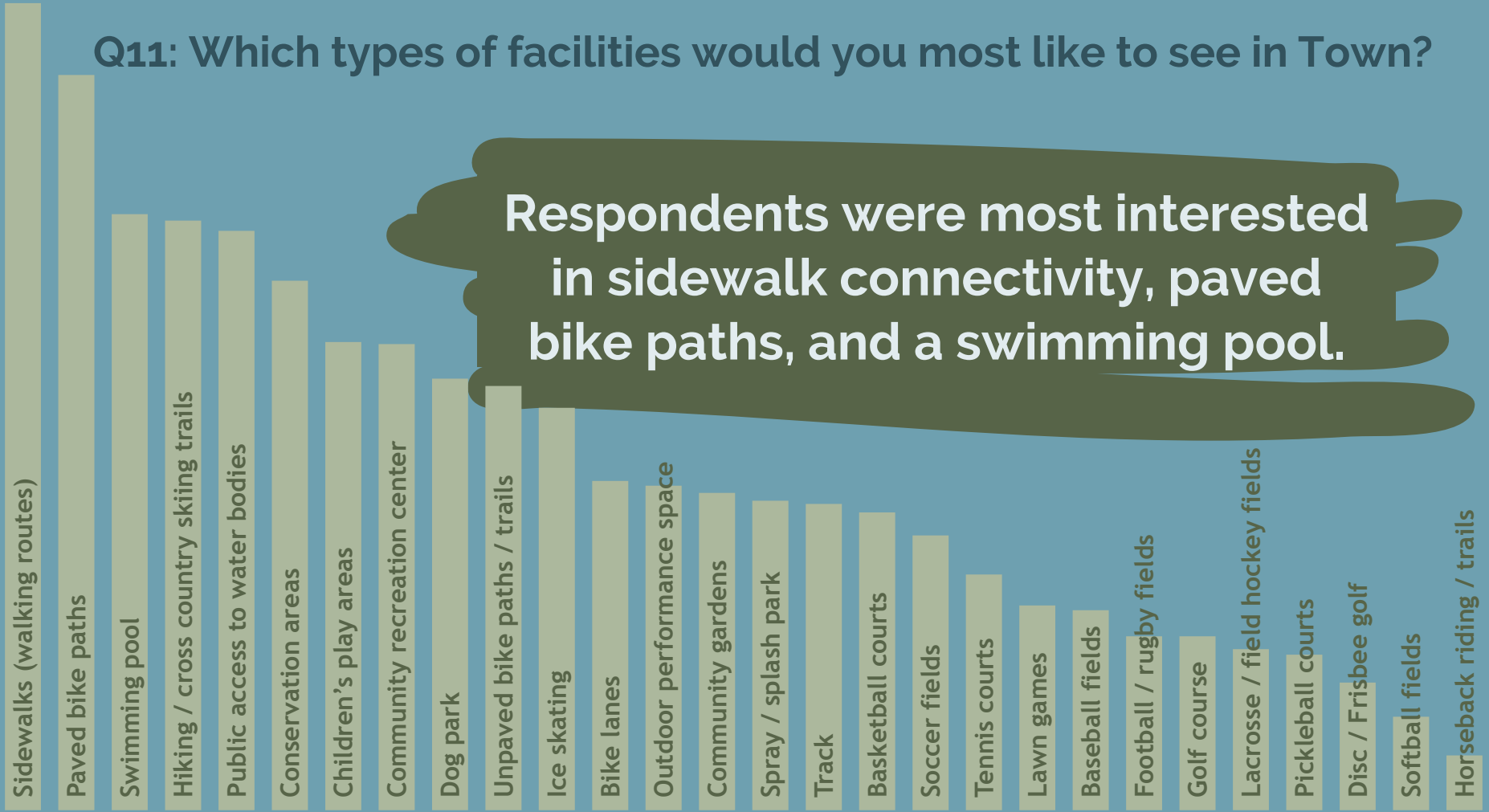


Q10: How important is the availability of designated and accessible parking areas for open space, natural areas, recreation areas, and historical sites?



of respondents said Very Important (52%) or Important (37%)

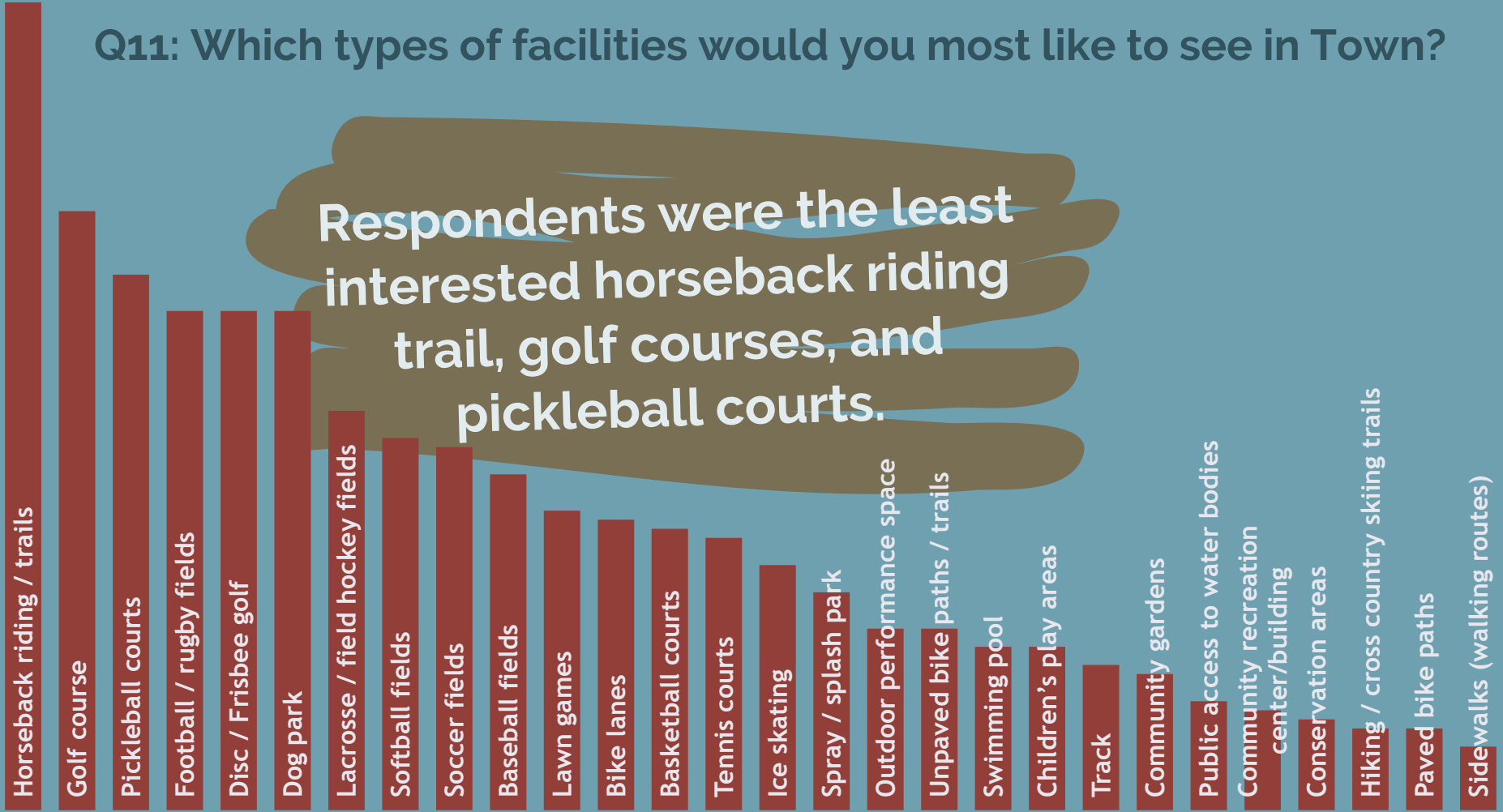
Q11: Which types of facilities would you most like to see in Town?



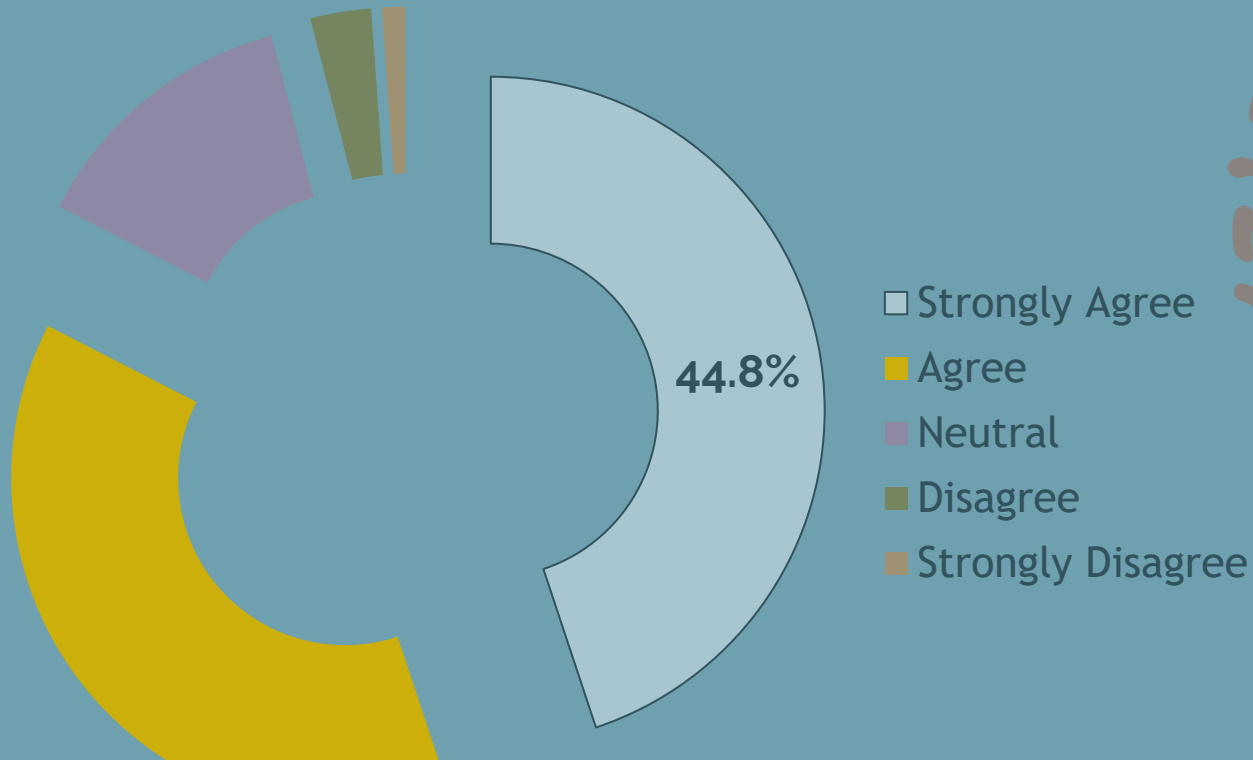
Respondents were most interested in sidewalk connectivity, paved bike paths, and a swimming pool.

Q11: Which types of facilities would you most like to see in Town?

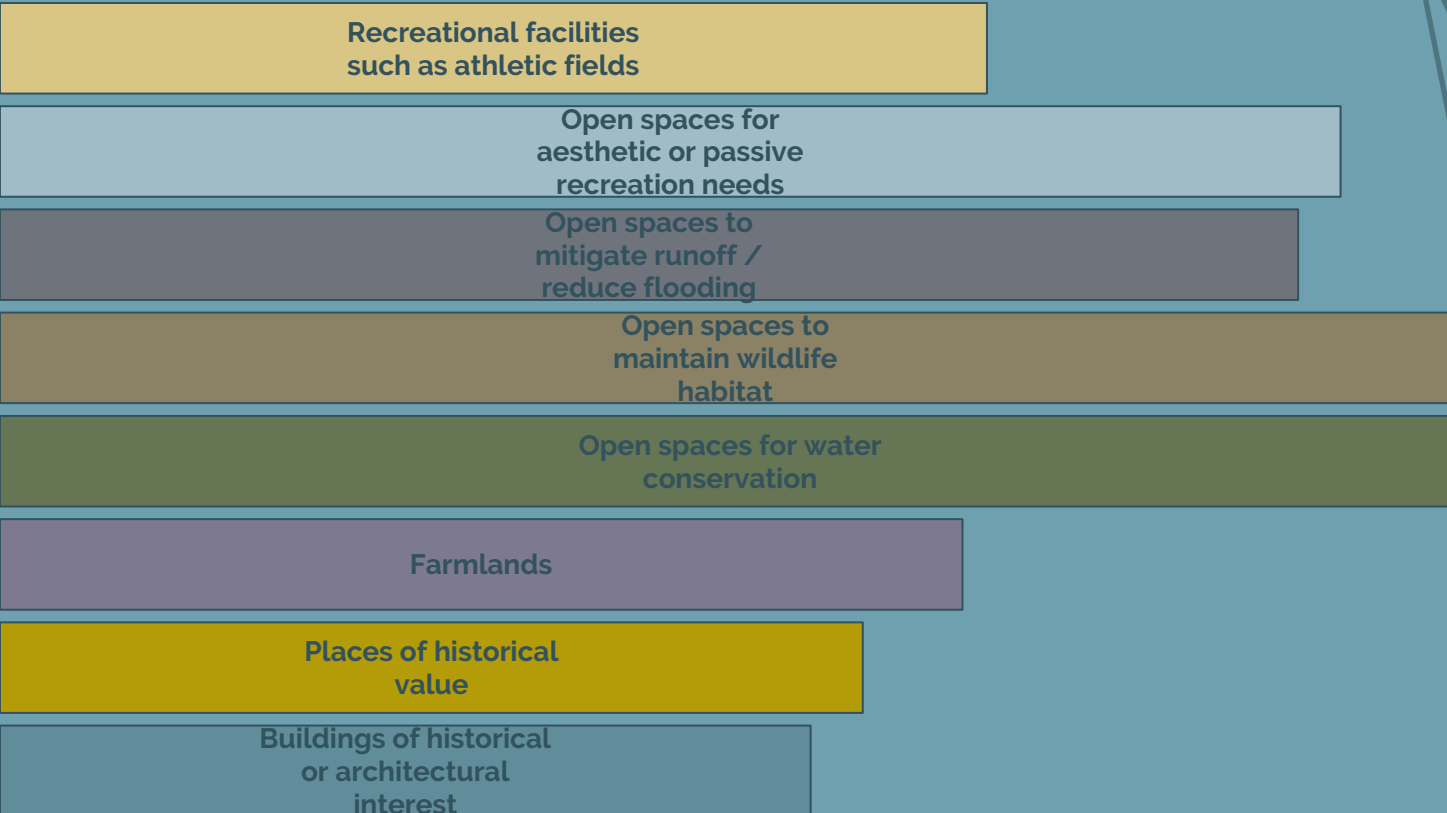
Respondents were the least interested horseback riding trail, golf courses, and pickleball courts.



Q12: To what extent do you agree or disagree with the following statement? *The Town would benefit from a fully accessible multi-use trail that interconnects with neighboring municipalities.*

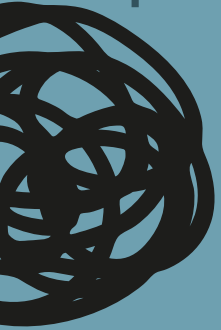
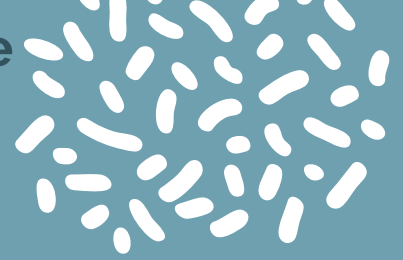


Q13: How important is it to you to preserve and maintain the following in Northborough?

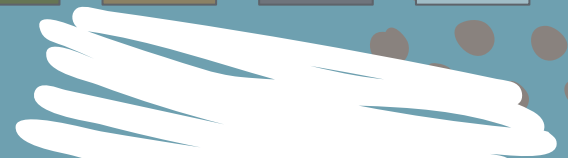
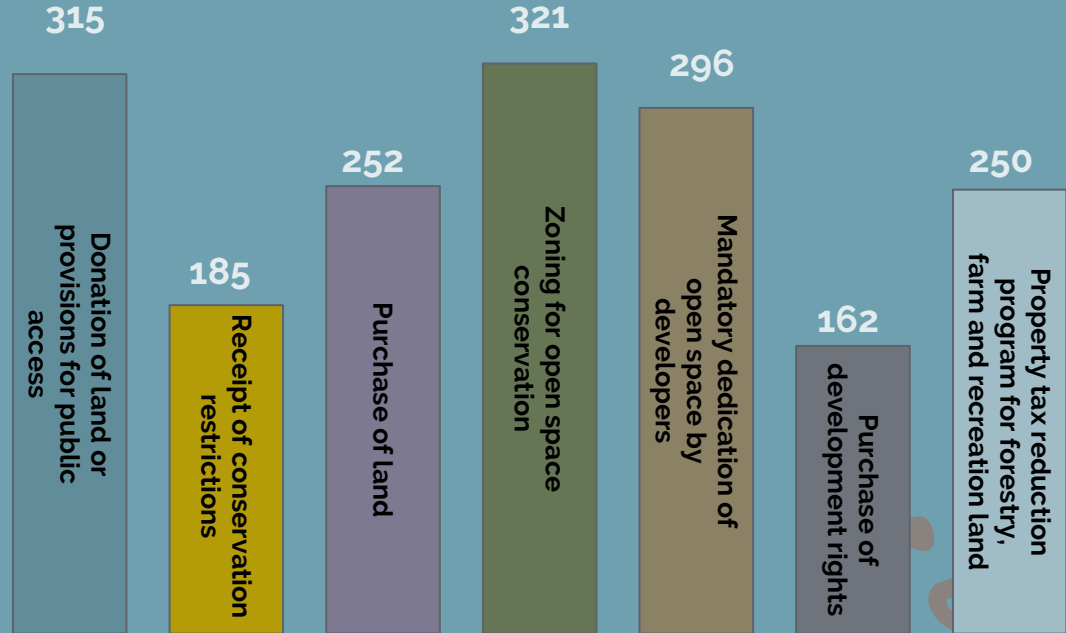


The largest number of respondents think that it is very important to maintain open space for water conservation, wildlife corridors and habitat, and scenic resources / passive recreation.

Q14: What Town actions do you favor to preserve open space? Please check all that apply.



The largest number of respondents were interested in **zoning for open space conservation** and **outreach to landowners regarding land donation or granting public access.**

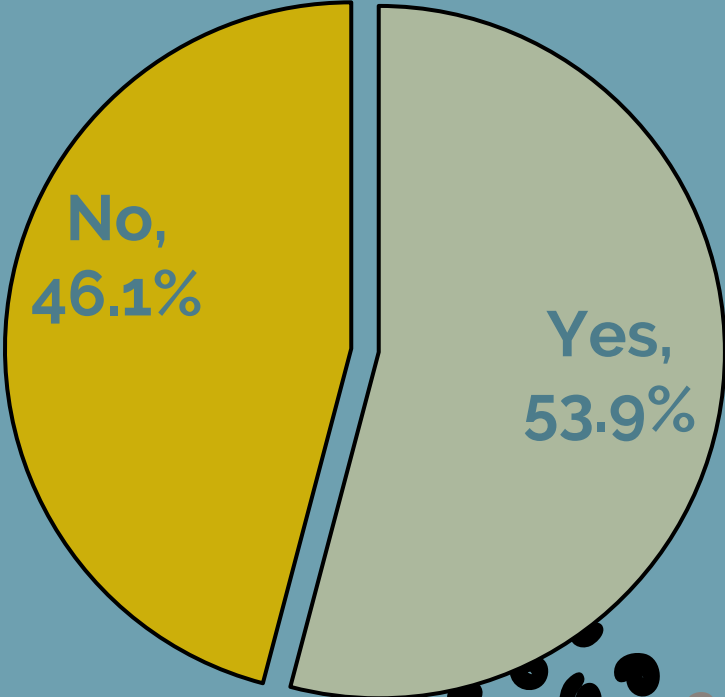


Q15: Please indicate your support for TOWN FUNDING for the following objectives (check one box per row).

The highest priorities among respondents were expanding connections for walking (e.g. sidewalks) and connectivity between existing hiking trails.

- Expanding connections for walking (e.g. sidewalks, connecting trails)
- Expanding connectivity between existing hiking trails
- Increase open space to protect Town water resources, including groundwater protection
- Improvements to existing athletic and recreation fields
- Acquiring conservation lands for passive recreation use (e.g., trails)
- Expanding connections for biking (e.g. off-road paths and on-road lanes)
- Improvements to existing playground facilities
- Increase general maintenance of existing grounds, buildings and/or landscape
- Provide public access to water resources in town
- Expanding available parking at open space destinations
- Expanding available parking at recreational destinations
- Acquiring land for new public athletic and recreation fields
- Construction of new playground facilities

Q16: Would you support an increased CPA surcharge to implement any of the objectives you indicated you "Strongly Support" above?



Goals, Objectives & Actions

Goal: a desired condition of well-being

Objective: an overarching intent, focused on addressing the identified goal

Action: a defined step to fulfill the objective

Goal 1. Preserve open space for the town's overall benefit.

Goal 2. Improve and expand opportunities for active recreation to residents of all ages and abilities.

Goal 3. Improve, expand, and manage open space related recreational opportunities.

Goal 4. Improve community awareness and commitment to conservation.

Goal 5. Expand connections between existing open spaces and community resources.

Goal 6. Improve accessibility to parks, open space and recreational facilities.

Conclusions



X Balance open space and recreational offerings for aging residents as well as for younger families → 8 to 80 concept

X Large demand for *passive* recreation options such as walking, biking, and hiking trails

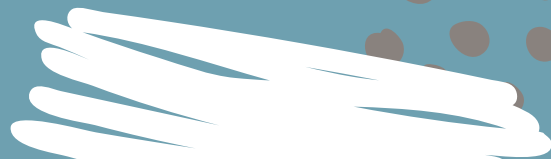
- + Call for improvements or expansions to sidewalks, plus trail connections

- + Desire for activities like walking groups

X General support for increasing, acquiring, and preserving open space in order to preserve natural resources such as forests, woodlands, and groundwater

X Other takeaways:

- + Lack of support for increased athletic fields.



Next Steps

- x Document Preparation and Review
- x Submit Plan Update to the State
- x Review and Acceptance

Questions



- x Raise your hand to ask a question live in Zoom
- or
- x Email Sarah Adams at sadams@cmrpc.org

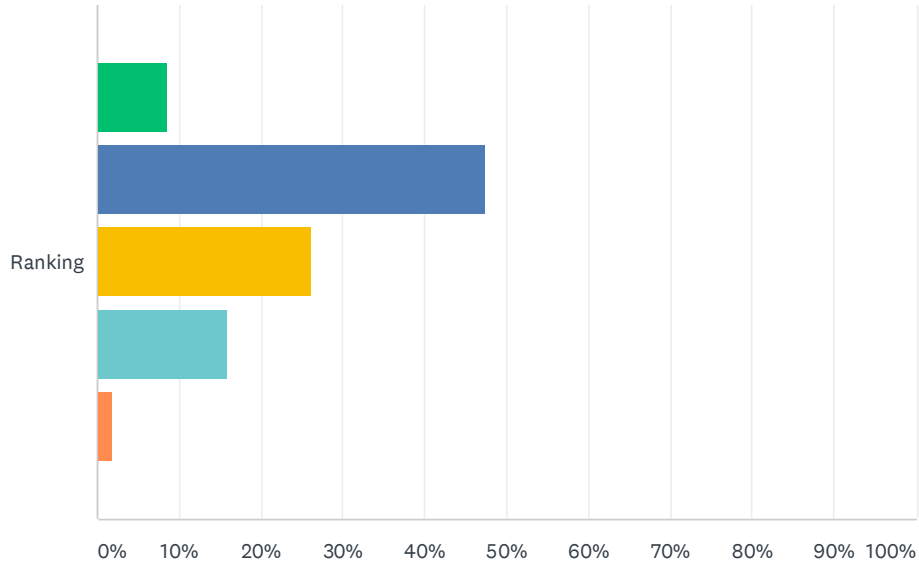
APPENDIX E

SURVEY RESULTS



**Q1 To what extent do you agree or disagree with the following statement?
The Town of Northborough is adequately served by current Open Space and Recreational Facilities such as Town Common, hiking trails, athletic fields, playgrounds, etc.**

Answered: 467 Skipped: 14

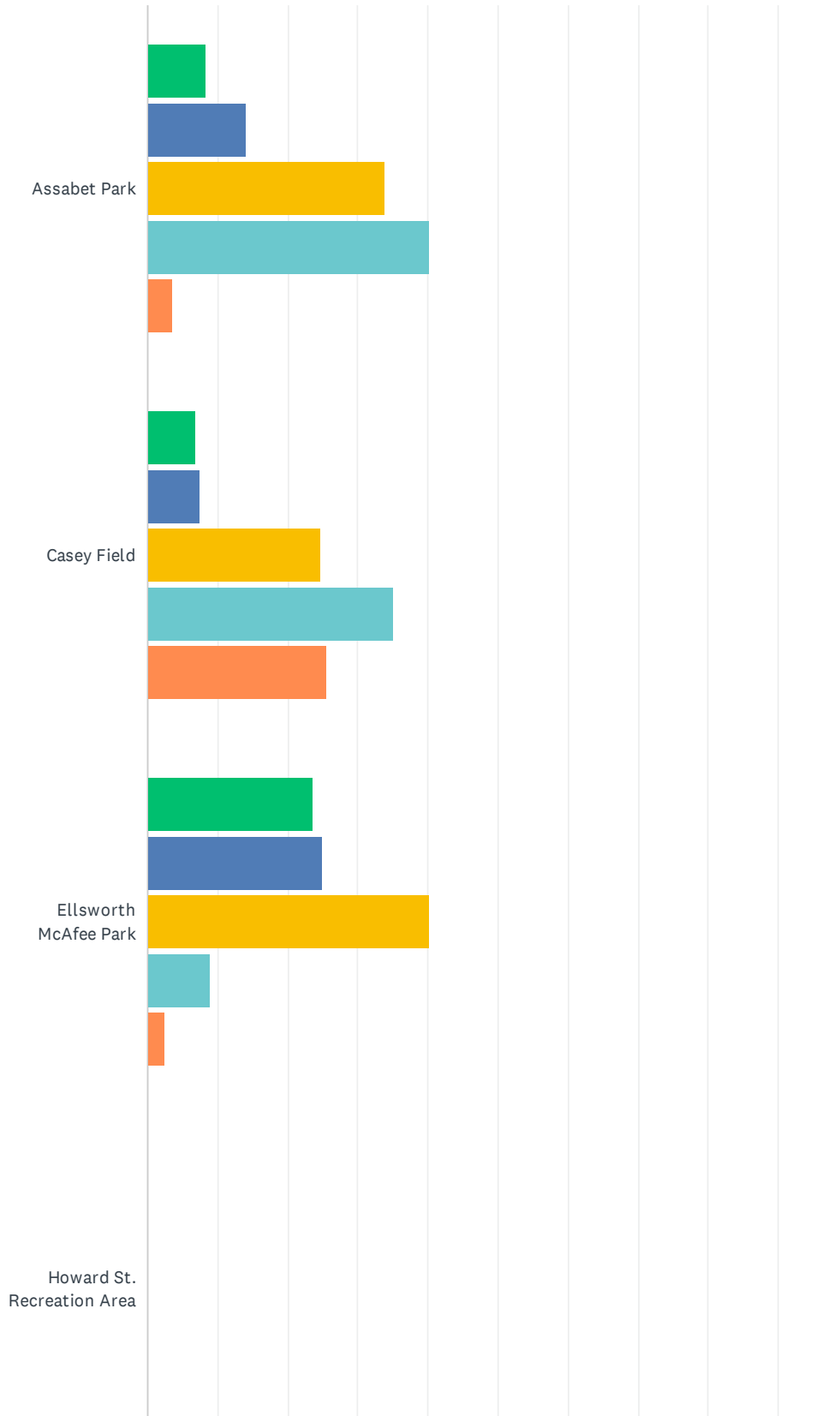


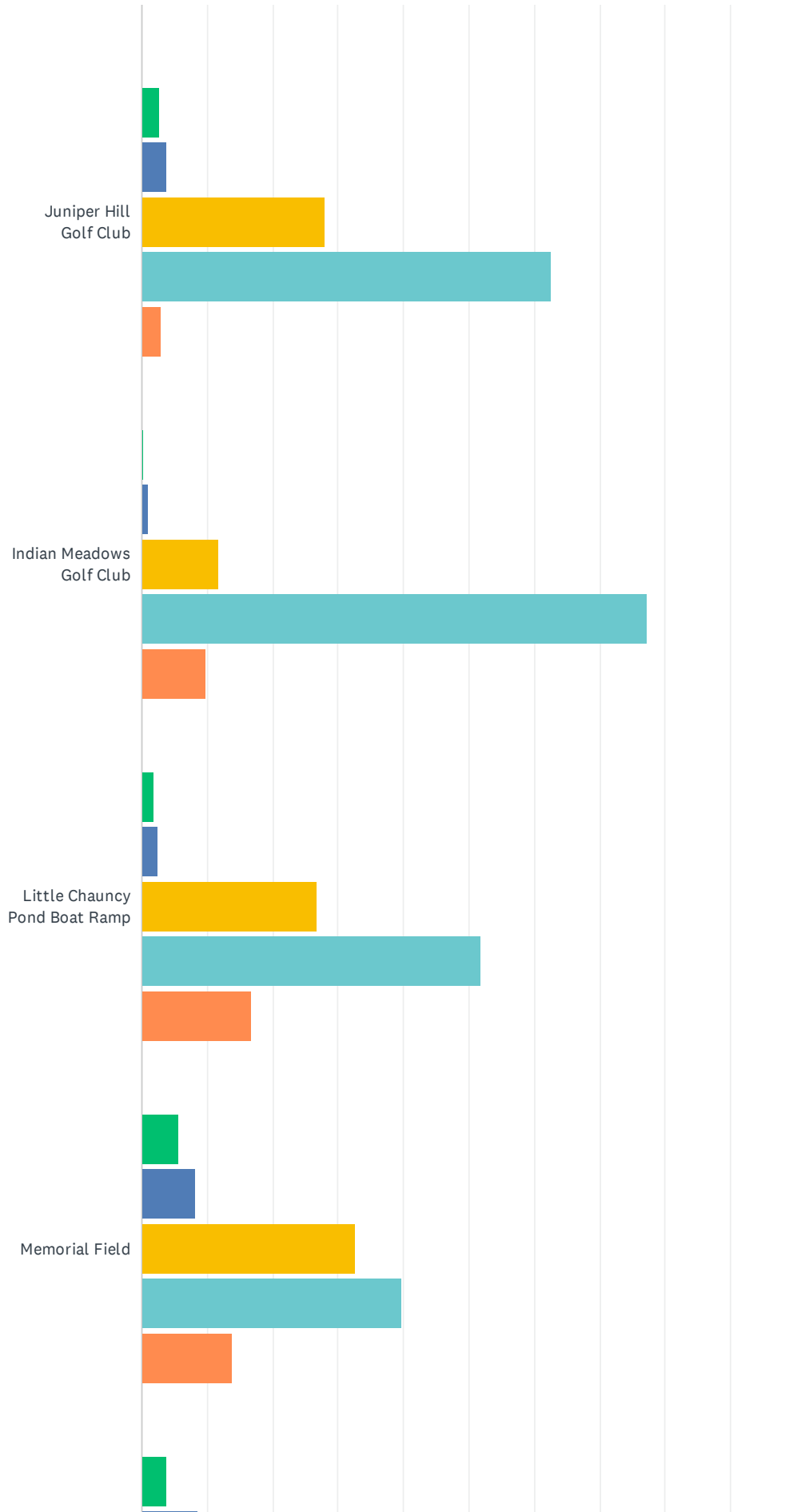
■ Strongly Agree
 ■ Agree
 ■ Neutral
 ■ Disagree
 ■ Strongly Disagree

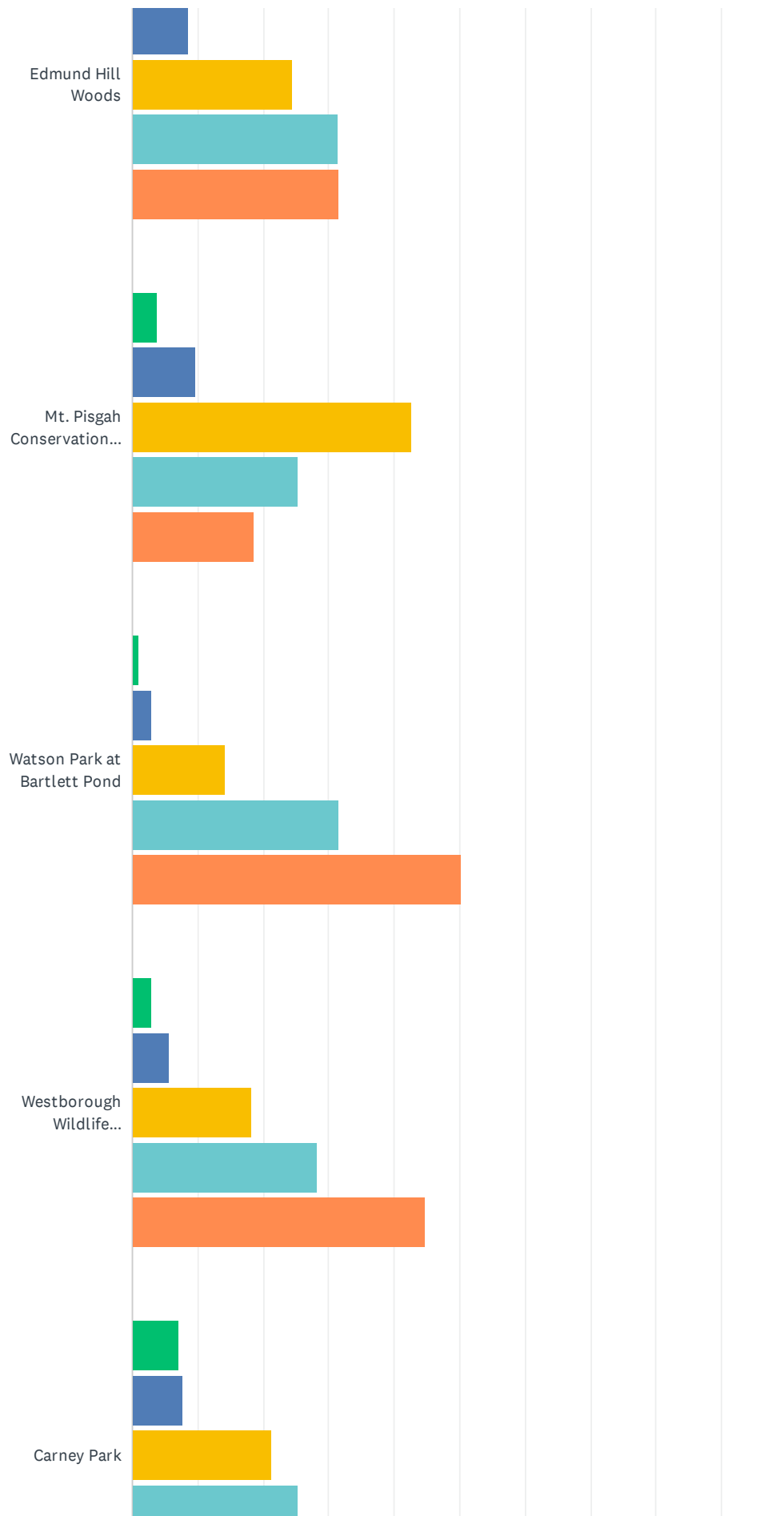
	STRONGLY AGREE	AGREE	NEUTRAL	DISAGREE	STRONGLY DISAGREE	TOTAL
Ranking	8.57% 40	47.54% 222	26.12% 122	15.85% 74	1.93% 9	467

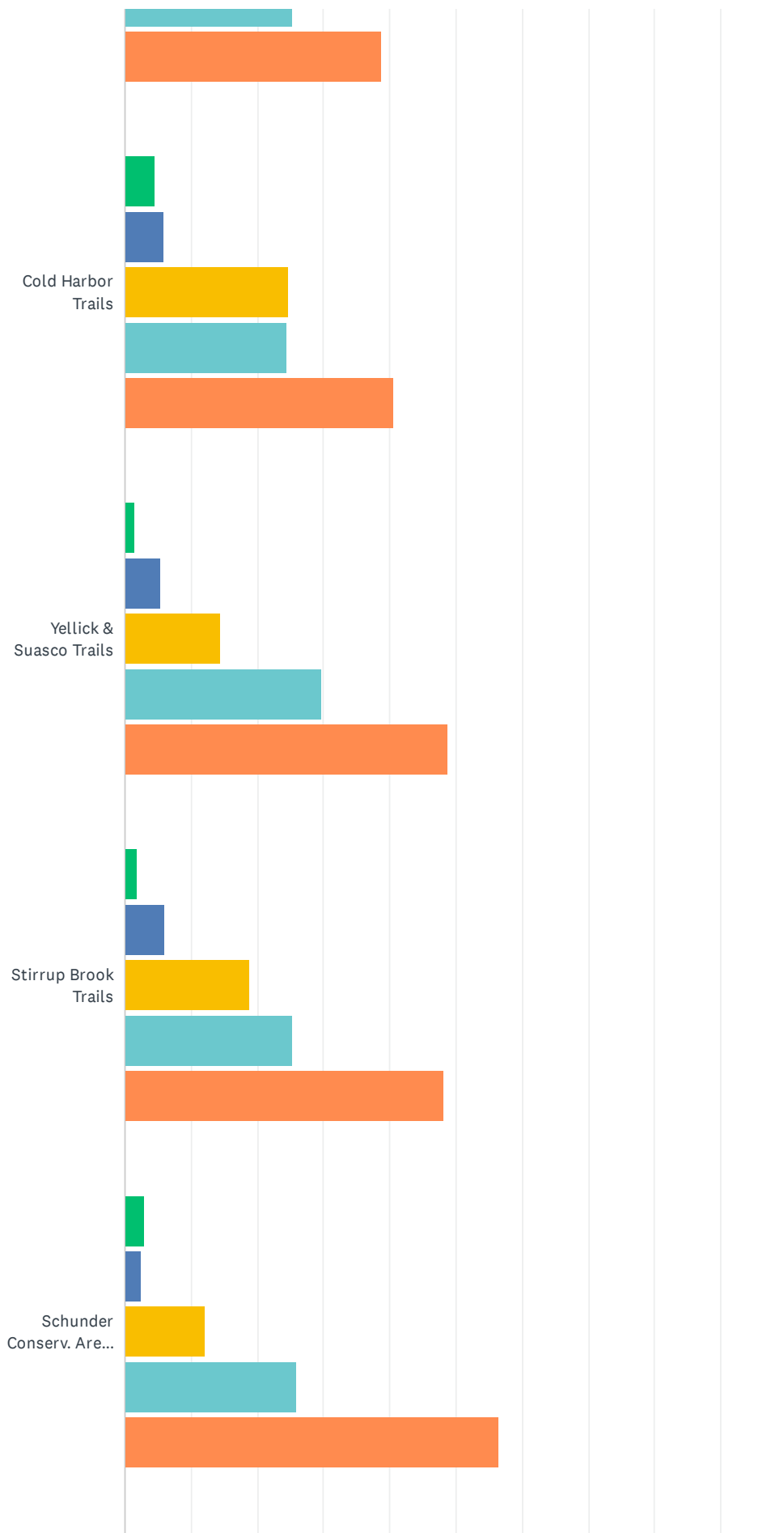
Q2 How often do you use the following recreation or open space areas in Northborough? (Check one box per row)

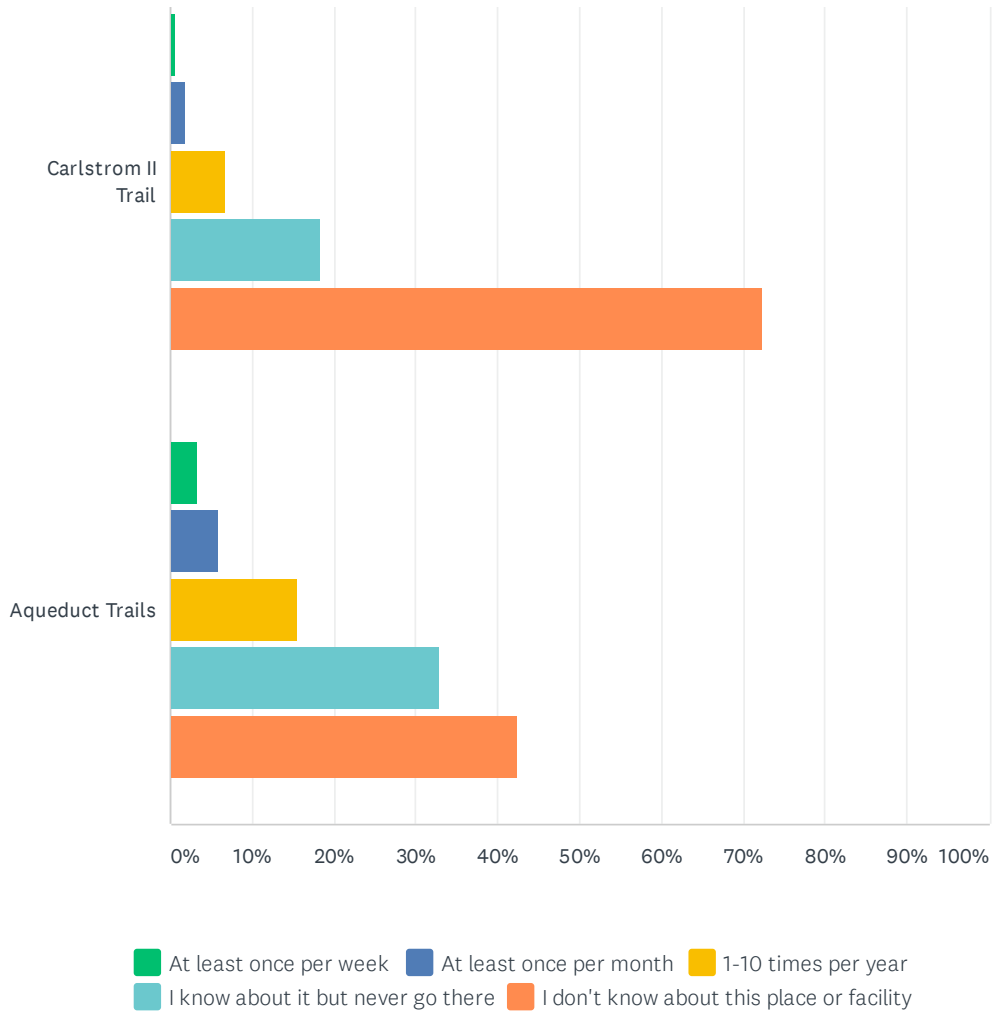
Answered: 477 Skipped: 4







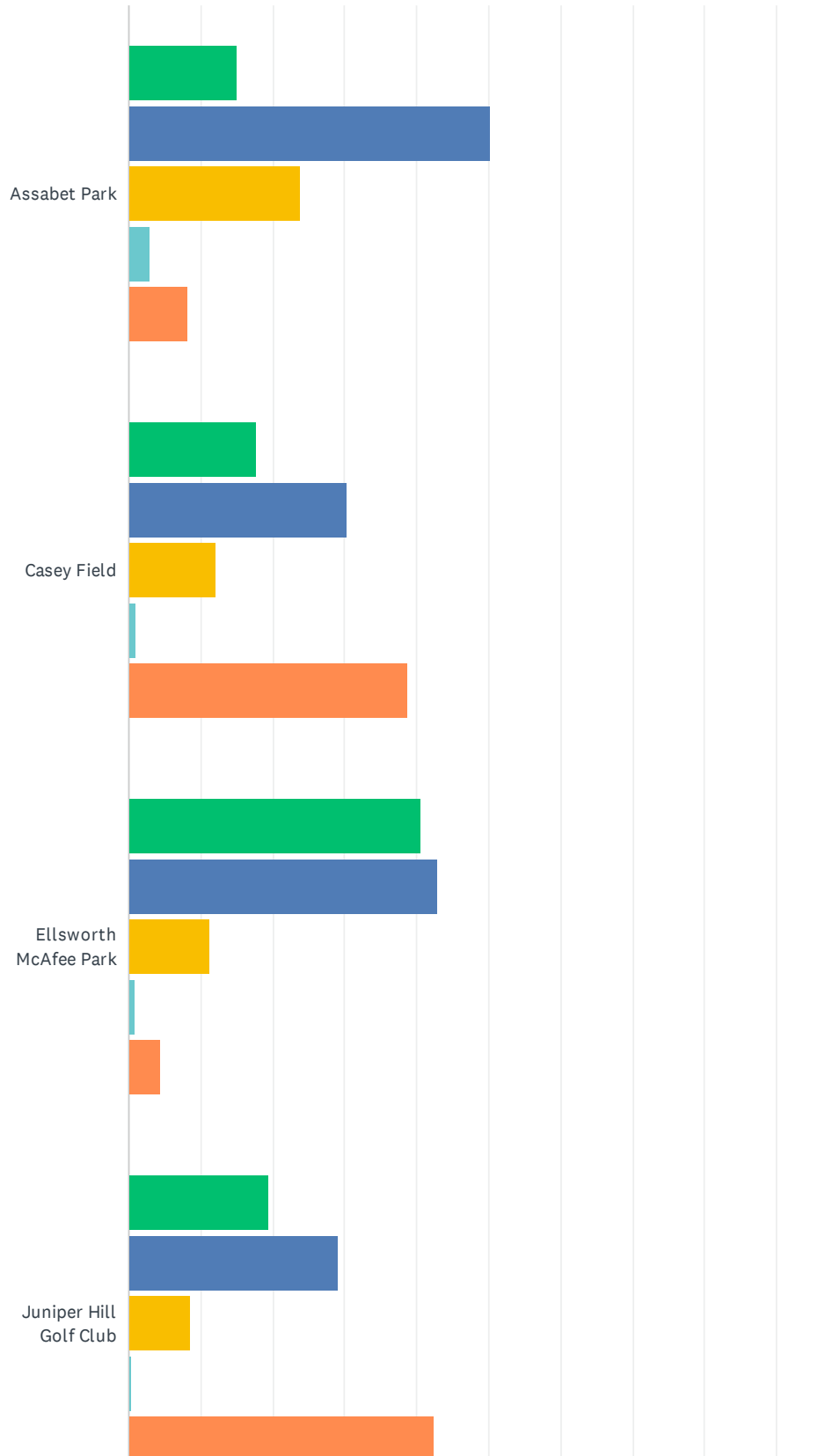


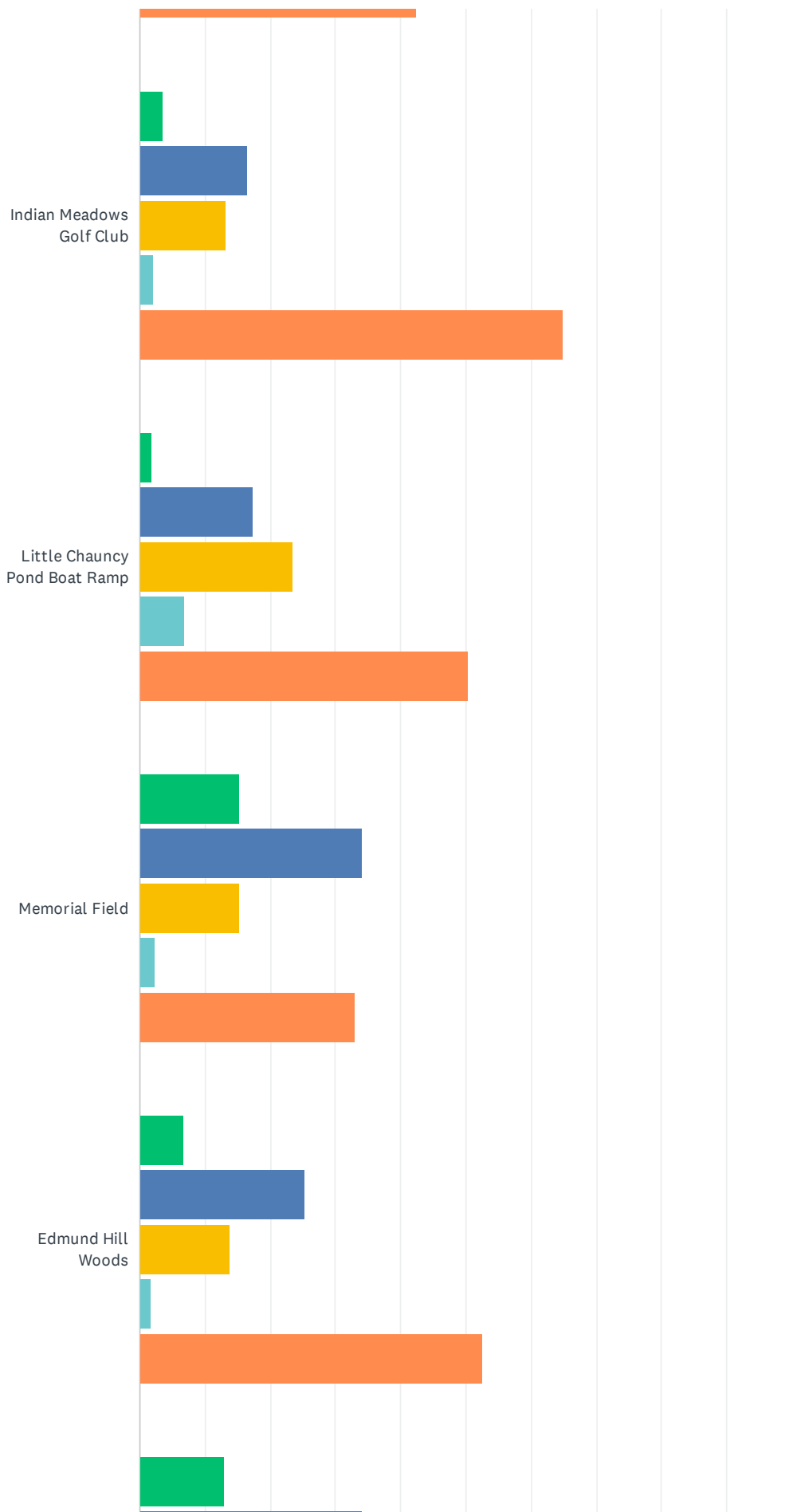


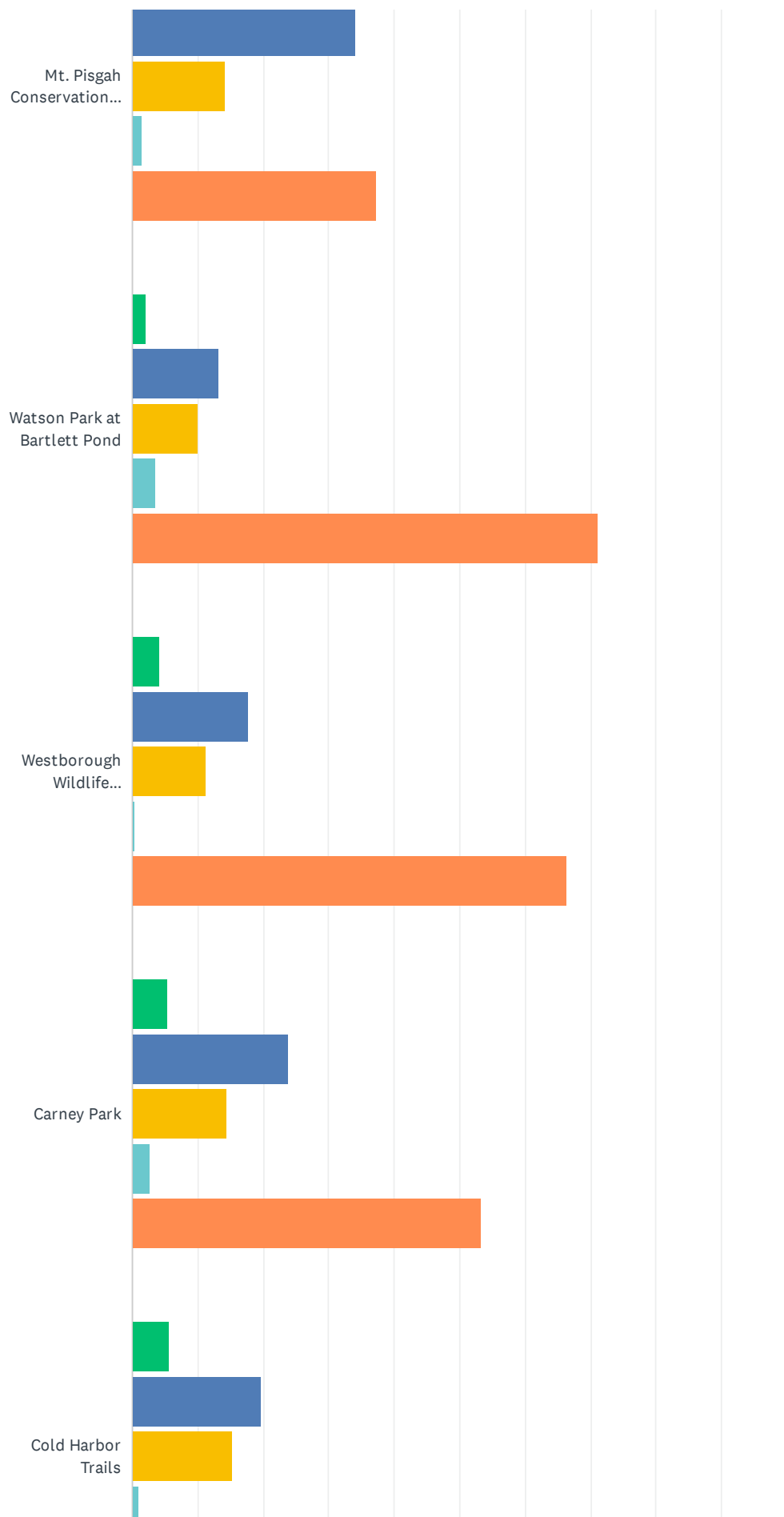
	AT LEAST ONCE PER WEEK	AT LEAST ONCE PER MONTH	1-10 TIMES PER YEAR	I KNOW ABOUT IT BUT NEVER GO THERE	I DON'T KNOW ABOUT THIS PLACE OR FACILITY	TOTAL
Assabet Park	8.32% 39	14.07% 66	33.90% 159	40.09% 188	3.62% 17	469
Casey Field	6.94% 32	7.59% 35	24.73% 114	35.14% 162	25.60% 118	461
Ellsworth McAfee Park	23.57% 111	24.84% 117	40.13% 189	8.92% 42	2.55% 12	471
Howard St. Recreation Area	0.00% 0	0.00% 0	0.00% 0	0.00% 0	0.00% 0	0
Juniper Hill Golf Club	2.77% 13	3.84% 18	27.93% 131	62.47% 293	2.99% 14	469
Indian Meadows Golf Club	0.22% 1	1.08% 5	11.61% 54	77.20% 359	9.89% 46	465
Little Chauncy Pond Boat Ramp	1.91% 9	2.55% 12	26.81% 126	51.91% 244	16.81% 79	470
Memorial Field	5.59% 26	8.17% 38	32.69% 152	39.78% 185	13.76% 64	465
Edmund Hill Woods	3.85% 18	8.57% 40	24.41% 114	31.48% 147	31.69% 148	467
Mt. Pisgah Conservation Area	3.82% 18	9.55% 45	42.68% 201	25.27% 119	18.68% 88	471
Watson Park at Bartlett Pond	1.07% 5	2.99% 14	14.29% 67	31.56% 148	50.11% 235	469
Westborough Wildlife Management Area/Cedar Hill Trails	2.97% 14	5.73% 27	18.26% 86	28.24% 133	44.80% 211	471
Carney Park	7.02% 33	7.66% 36	21.28% 100	25.32% 119	38.72% 182	470
Cold Harbor Trails	4.51% 21	5.79% 27	24.68% 115	24.46% 114	40.56% 189	466
Yellick & Suasco Trails	1.49% 7	5.53% 26	14.47% 68	29.79% 140	48.72% 229	470
Stirrup Brook Trails	1.92% 9	5.98% 28	18.80% 88	25.21% 118	48.08% 225	468
Schunder Conserv. Area & Trails (Green Street Trails)	2.97% 14	2.55% 12	12.10% 57	25.90% 122	56.48% 266	471
Carlstrom II Trail	0.64% 3	1.93% 9	6.64% 31	18.42% 86	72.38% 338	467
Aqueduct Trails	3.43% 16	5.79% 27	15.45% 72	32.83% 153	42.49% 198	466

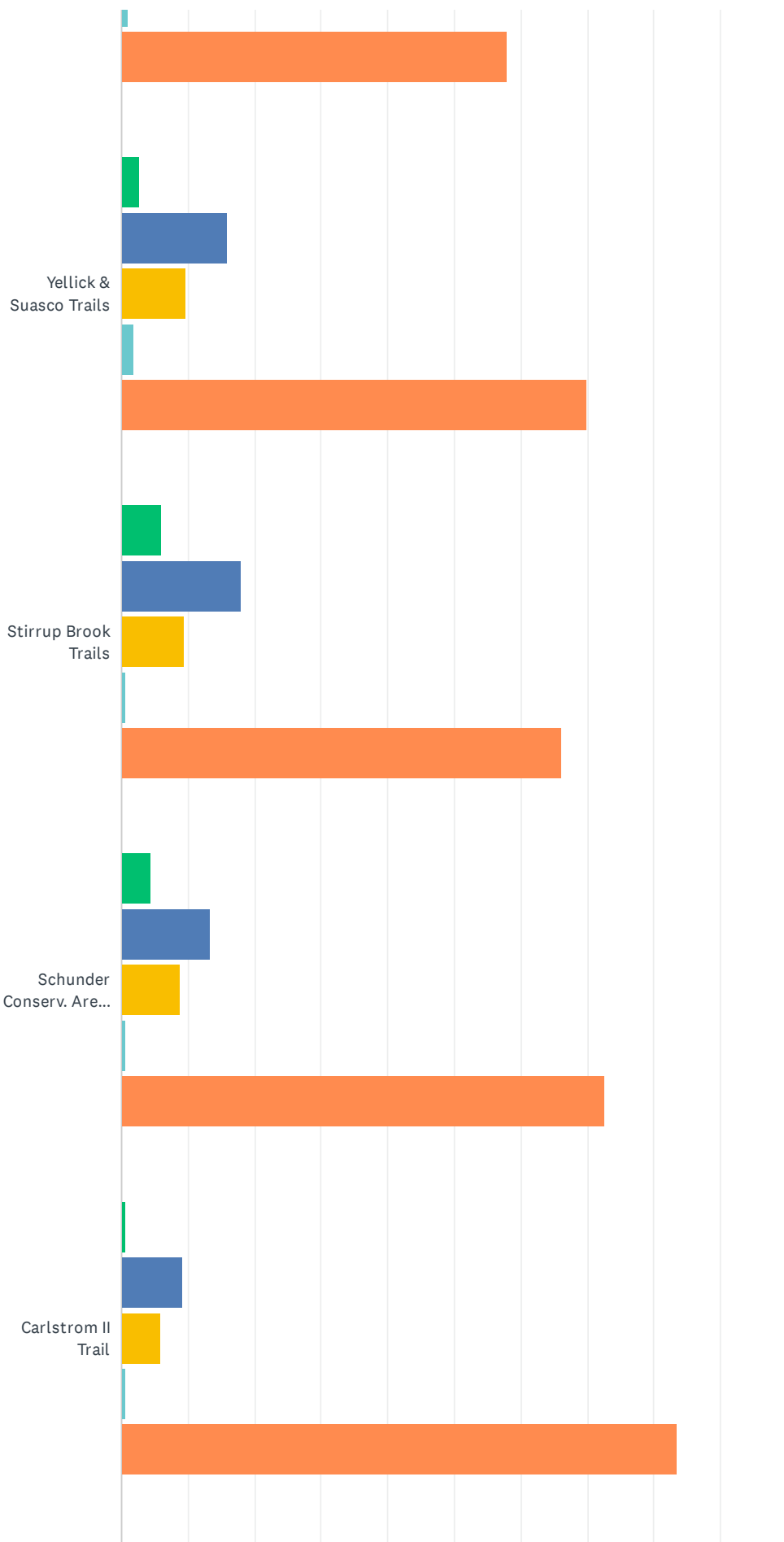
Q3 How would you rank the condition of the following recreation or open space areas in Northborough? (Check one box per row)

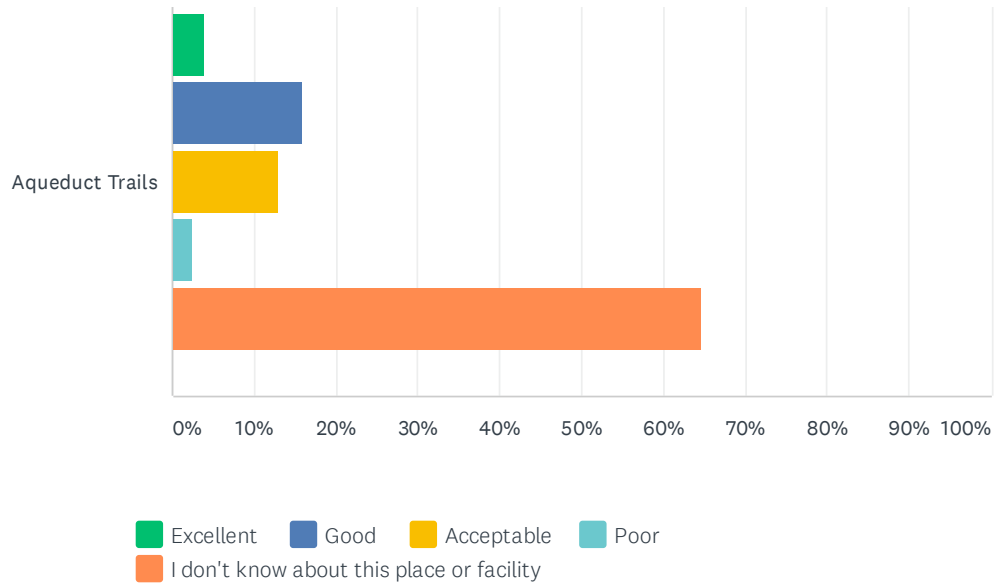
Answered: 472 Skipped: 9







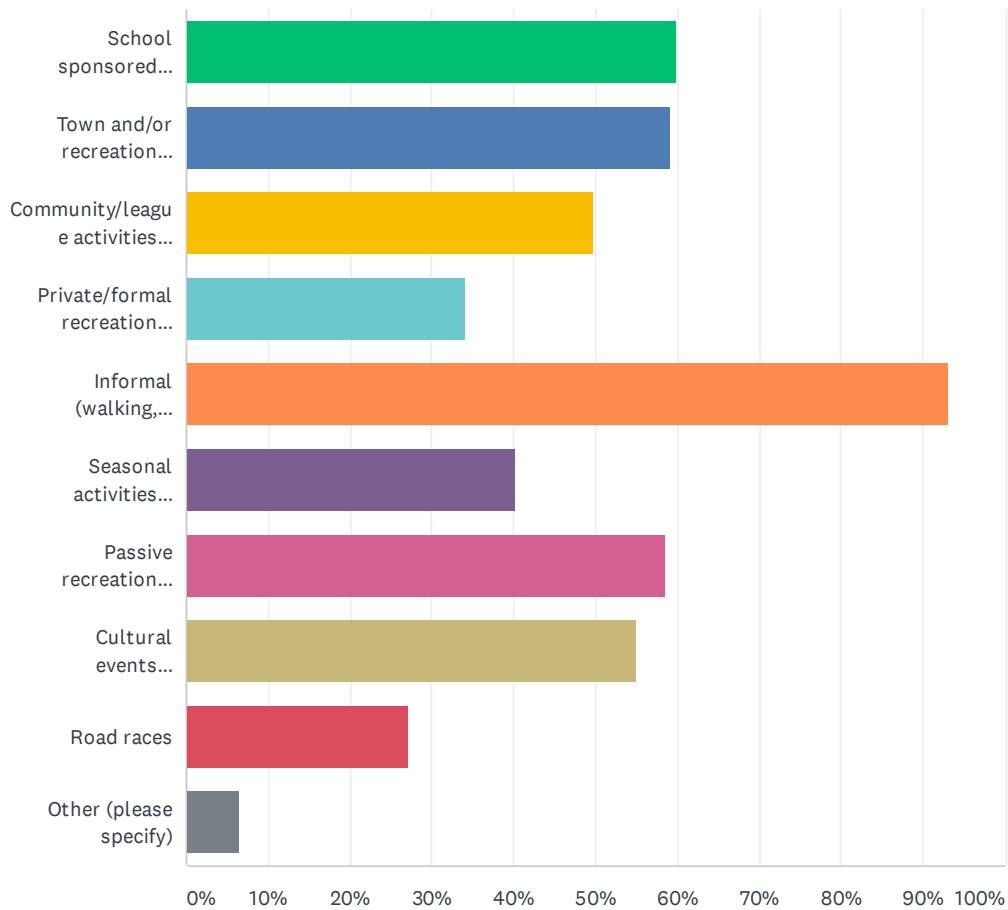




	EXCELLENT	GOOD	ACCEPTABLE	POOR	I DON'T KNOW ABOUT THIS PLACE OR FACILITY	TOTAL
Assabet Park	14.98% 68	50.22% 228	23.79% 108	2.86% 13	8.15% 37	454
Casey Field	17.77% 78	30.30% 133	12.07% 53	1.14% 5	38.72% 170	439
Ellsworth McAfee Park	40.48% 185	42.89% 196	11.38% 52	0.88% 4	4.38% 20	457
Juniper Hill Golf Club	19.50% 85	29.13% 127	8.49% 37	0.46% 2	42.43% 185	436
Indian Meadows Golf Club	3.52% 15	16.43% 70	13.15% 56	2.11% 9	64.79% 276	426
Little Chauncy Pond Boat Ramp	1.86% 8	17.40% 75	23.43% 101	6.96% 30	50.35% 217	431
Memorial Field	15.24% 66	34.18% 148	15.24% 66	2.31% 10	33.03% 143	433
Edmund Hill Woods	6.71% 29	25.23% 109	13.89% 60	1.62% 7	52.55% 227	432
Mt. Pisgah Conservation Area	12.92% 58	34.08% 153	14.25% 64	1.56% 7	37.19% 167	449
Watson Park at Bartlett Pond	2.09% 9	13.26% 57	10.00% 43	3.49% 15	71.16% 306	430
Westborough Wildlife Management Area/Cedar Hill Trails	4.12% 18	17.85% 78	11.21% 49	0.46% 2	66.36% 290	437
Carney Park	5.52% 24	23.91% 104	14.48% 63	2.76% 12	53.33% 232	435
Cold Harbor Trails	5.73% 25	19.72% 86	15.37% 67	1.15% 5	58.03% 253	436
Yellick & Suasco Trails	2.80% 12	15.85% 68	9.56% 41	1.86% 8	69.93% 300	429
Stirrup Brook Trails	5.96% 26	17.89% 78	9.40% 41	0.69% 3	66.06% 288	436
Schunder Conserv. Area & Trails (Green Street Trails)	4.40% 19	13.43% 58	8.80% 38	0.69% 3	72.69% 314	432
Carlstrom II Trail	0.71% 3	9.22% 39	5.91% 25	0.71% 3	83.45% 353	423
Aqueduct Trails	3.92% 17	15.90% 69	12.90% 56	2.53% 11	64.75% 281	434

Q4 What types of activities do you or members of your household participate in? (Check all that apply)

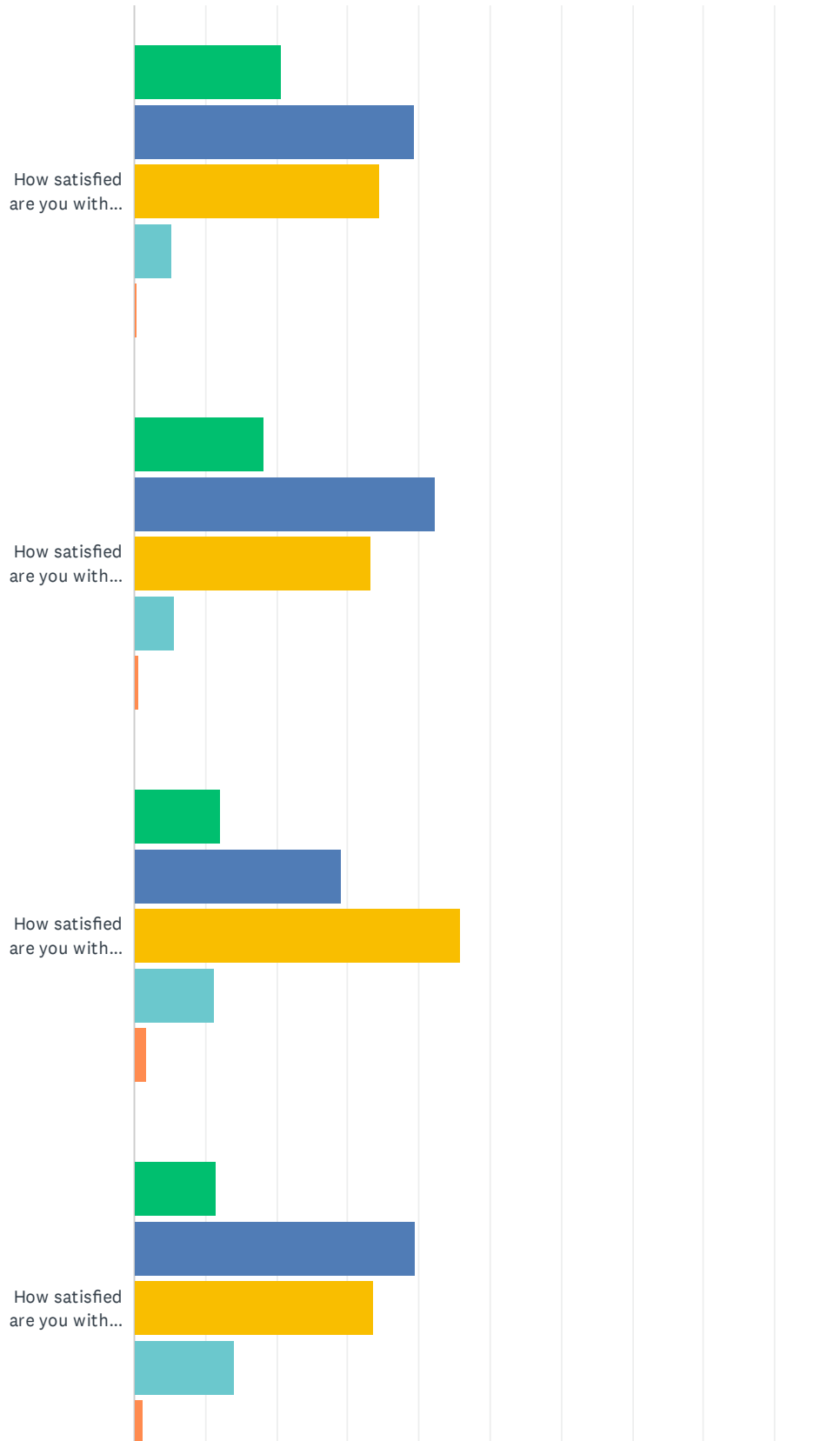
Answered: 474 Skipped: 7

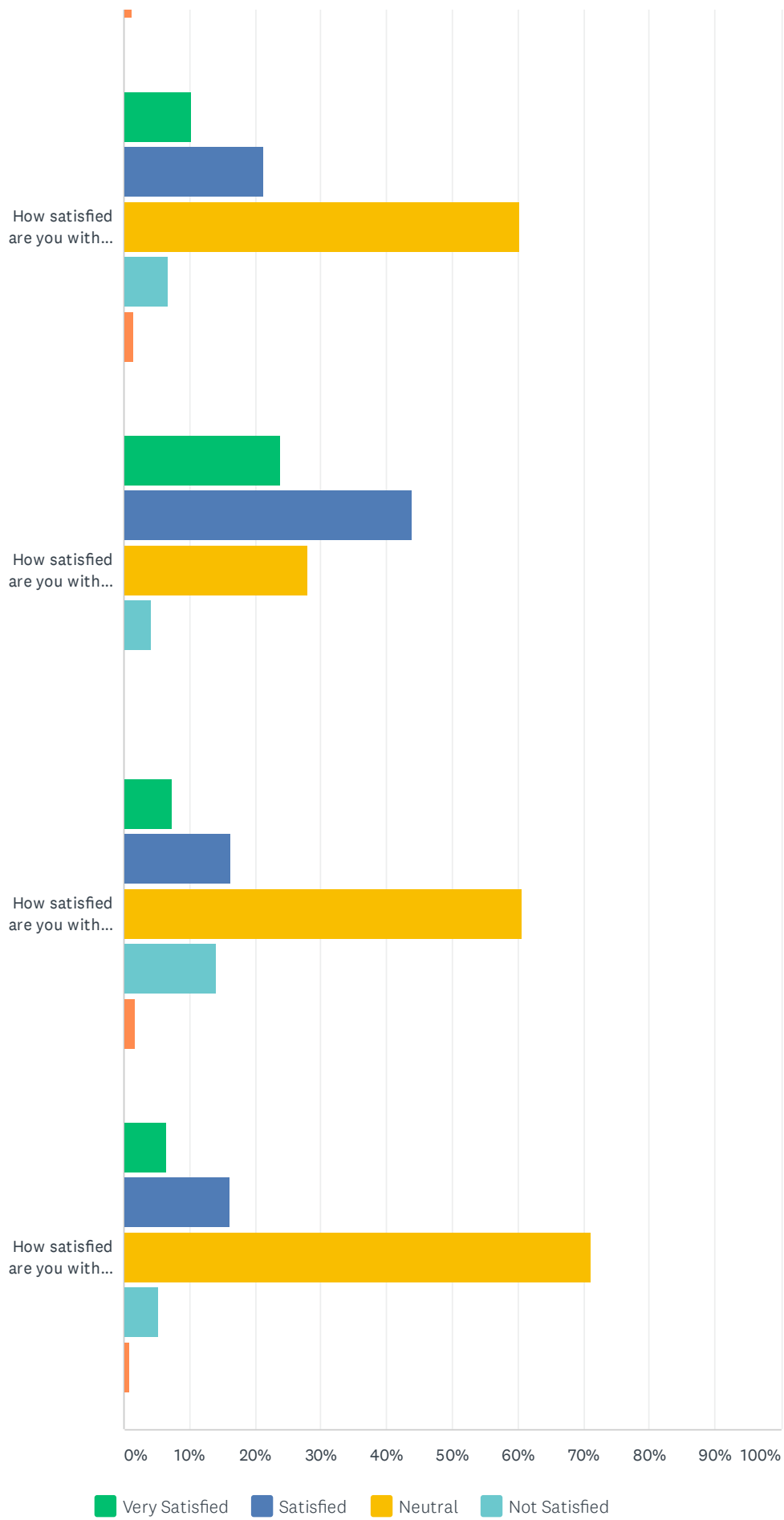


ANSWER CHOICES	RESPONSES	
School sponsored activities/ team sports	59.92%	284
Town and/or recreation commission sponsored activities	59.28%	281
Community/league activities (little league baseball, youth soccer leagues)	49.79%	236
Private/formal recreation (dance, karate, etc.)	34.18%	162
Informal (walking, hiking, skateboarding, running, cycling, etc.)	93.04%	441
Seasonal activities (snowshoeing, cross-country skiing, etc.)	40.08%	190
Passive recreation (appreciating nature, photography, bird watching, picnicking, reading/relaxing, etc.)	58.65%	278
Cultural events (concerts and activities at Ellsworth McAfee Park, festivals, etc.)	55.06%	261
Road races	27.22%	129
Other (please specify)	6.54%	31
Total Respondents: 474		

Q5 Regarding parks and recreation spaces and programming in Northborough:

Answered: 475 Skipped: 6



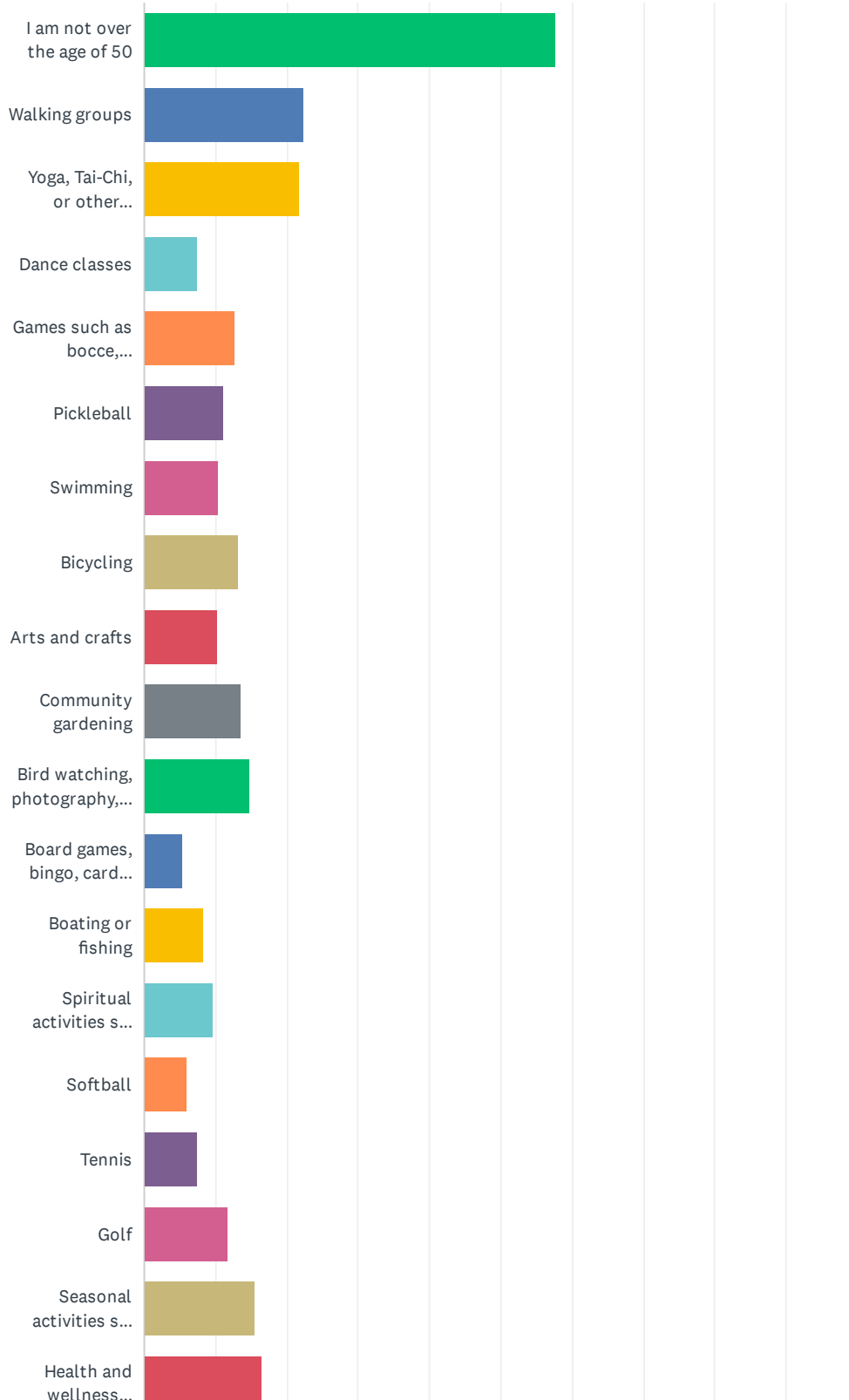


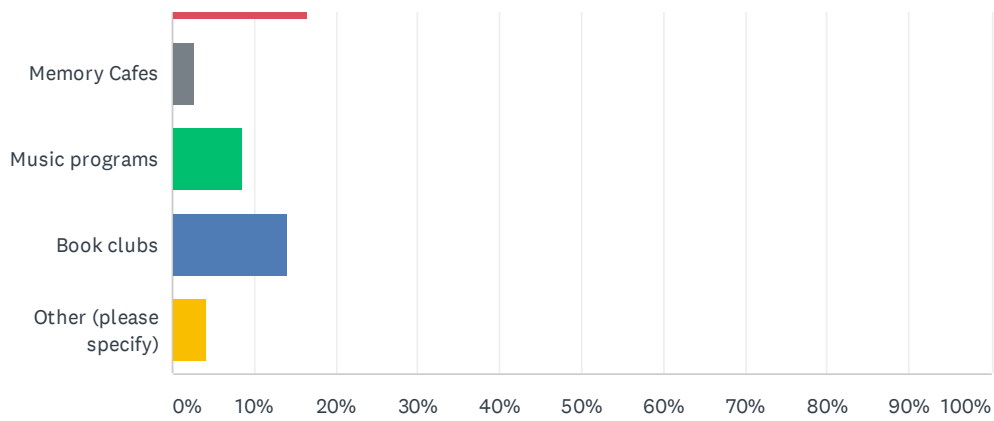
 Very Unsatisfied

	VERY SATISFIED	SATISFIED	NEUTRAL	NOT SATISFIED	VERY UNSATISFIED	TOTAL
How satisfied are you with recreation facilities for individuals under the age of 6?	20.61% 94	39.25% 179	34.43% 157	5.26% 24	0.44% 2	456
How satisfied are you with recreation facilities for individuals ages 6 to 12?	18.16% 83	42.23% 193	33.26% 152	5.69% 26	0.66% 3	457
How satisfied are you with recreation facilities for individuals ages 12 to 18?	12.17% 55	28.98% 131	45.80% 207	11.28% 51	1.77% 8	452
How satisfied are you with recreation facilities for adults?	11.45% 53	39.52% 183	33.69% 156	14.04% 65	1.30% 6	463
How satisfied are you with recreation facilities for seniors?	10.34% 45	21.38% 93	60.23% 262	6.67% 29	1.38% 6	435
How satisfied are you with the organized youth sports and recreation programs?	23.85% 109	43.98% 201	28.01% 128	4.16% 19	0.00% 0	457
How satisfied are you with the organized adult sports and recreation programs?	7.42% 33	16.40% 73	60.67% 270	13.93% 62	1.57% 7	445
How satisfied are you with the organized sports and recreation programs for seniors?	6.45% 28	16.13% 70	71.20% 309	5.30% 23	0.92% 4	434

Q6 If you are a resident over the age of 50, what types of recreational activities would you like to see more readily available in town? (Check all that apply)

Answered: 399 Skipped: 82

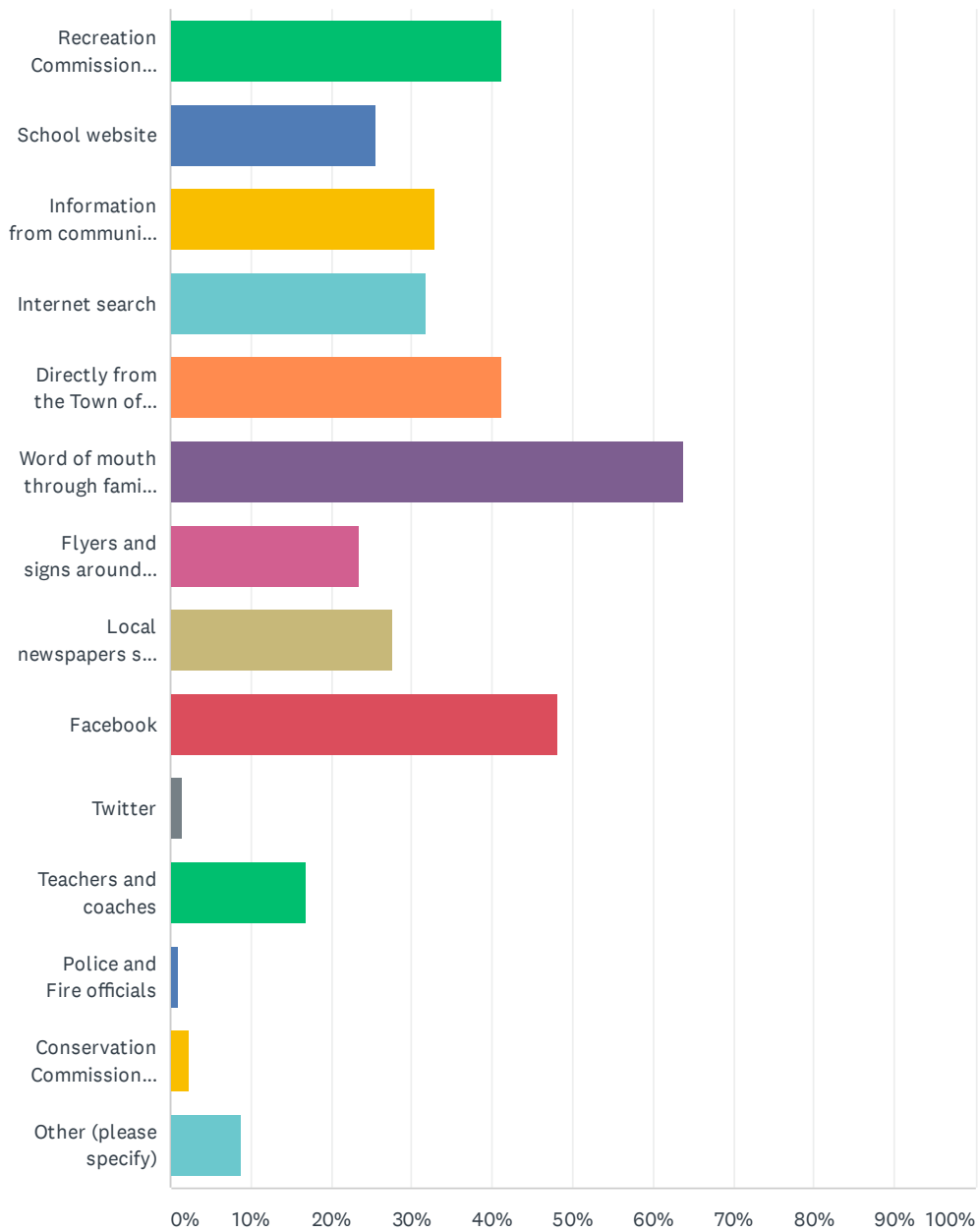




ANSWER CHOICES	RESPONSES
I am not over the age of 50	57.64% 230
Walking groups	22.31% 89
Yoga, Tai-Chi, or other fitness classes	21.80% 87
Dance classes	7.52% 30
Games such as bocce, horseshoes, or badminton	12.78% 51
Pickleball	11.03% 44
Swimming	10.53% 42
Bicycling	13.28% 53
Arts and crafts	10.28% 41
Community gardening	13.53% 54
Bird watching, photography, or appreciating nature	14.79% 59
Board games, bingo, card games	5.51% 22
Boating or fishing	8.27% 33
Spiritual activities such as meditation	9.52% 38
Softball	6.02% 24
Tennis	7.52% 30
Golf	11.78% 47
Seasonal activities such as skiing or snowshoeing	15.54% 62
Health and wellness programs (cooking classes, healthy aging resources) Social activities such as pot-luck dinners	16.54% 66
Memory Cafes	2.76% 11
Music programs	8.52% 34
Book clubs	14.04% 56
Other (please specify)	4.26% 17
Total Respondents: 399	

Q7 How do you currently get information about open spaces, recreational opportunities and events in Northborough? (Check all that apply)

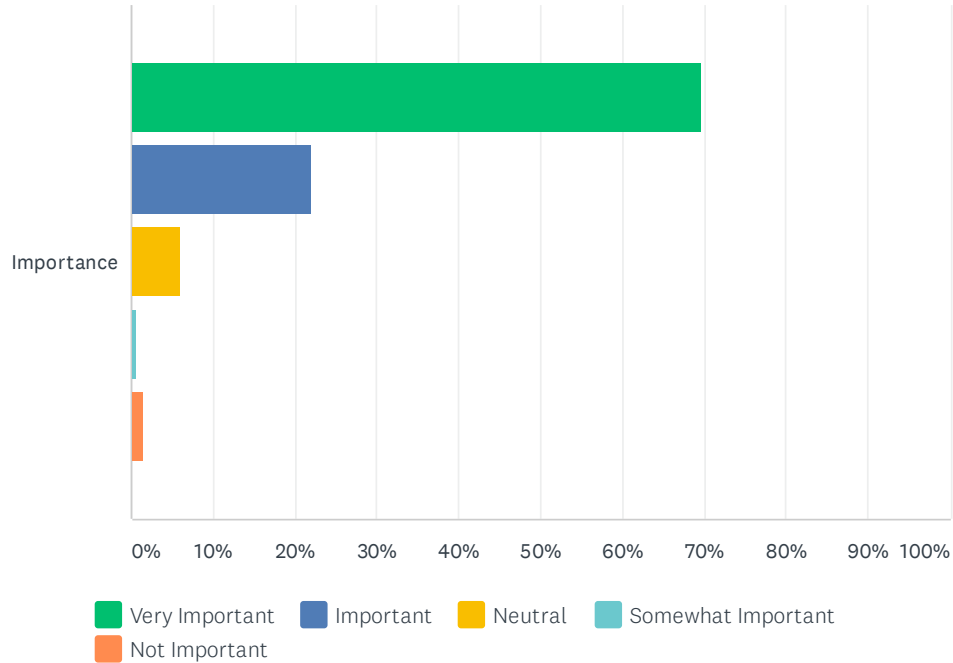
Answered: 448 Skipped: 33



ANSWER CHOICES	RESPONSES	
Recreation Commission website	41.29%	185
School website	25.45%	114
Information from community groups or leagues	32.81%	147
Internet search	31.70%	142
Directly from the Town of Northborough website	41.29%	185
Word of mouth through family, friends, neighbors, etc.	63.84%	286
Flyers and signs around town	23.44%	105
Local newspapers such as the Community Advocate or the Metrowest Daily News	27.68%	124
Facebook	48.21%	216
Twitter	1.56%	7
Teachers and coaches	16.96%	76
Police and Fire officials	1.12%	5
Conservation Commission website	2.23%	10
Other (please specify)	8.71%	39
Total Respondents: 448		

Q8 How important is it to be able to access open space and natural areas, trails, recreation destinations, and historical sites in Northborough by walking or biking ?

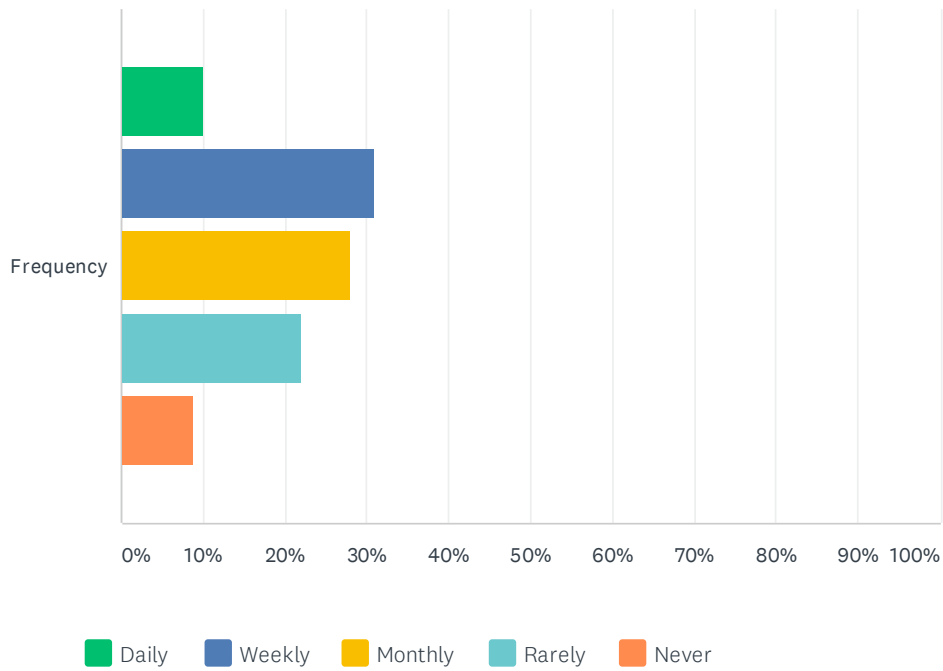
Answered: 456 Skipped: 25



	VERY IMPORTANT	IMPORTANT	NEUTRAL	SOMEWHAT IMPORTANT	NOT IMPORTANT	TOTAL
Importance	69.74% 318	21.93% 100	6.14% 28	0.66% 3	1.54% 7	456

Q9 How often do you travel to Northborough's open spaces and/or recreational facilities by walking or biking in season?

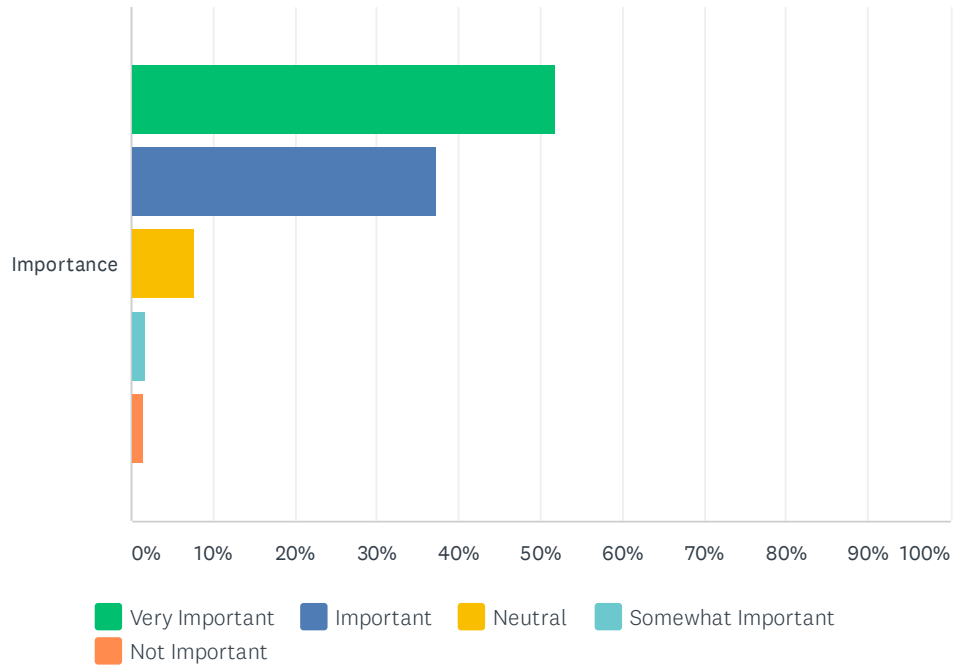
Answered: 454 Skipped: 27



	DAILY	WEEKLY	MONTHLY	RARELY	NEVER	TOTAL
Frequency	10.13%	31.06%	27.97%	22.03%	8.81%	
	46	141	127	100	40	454

Q10 How important is the availability of designated and accessible parking areas for open space and natural areas, recreation areas, and historical sites in Northborough?

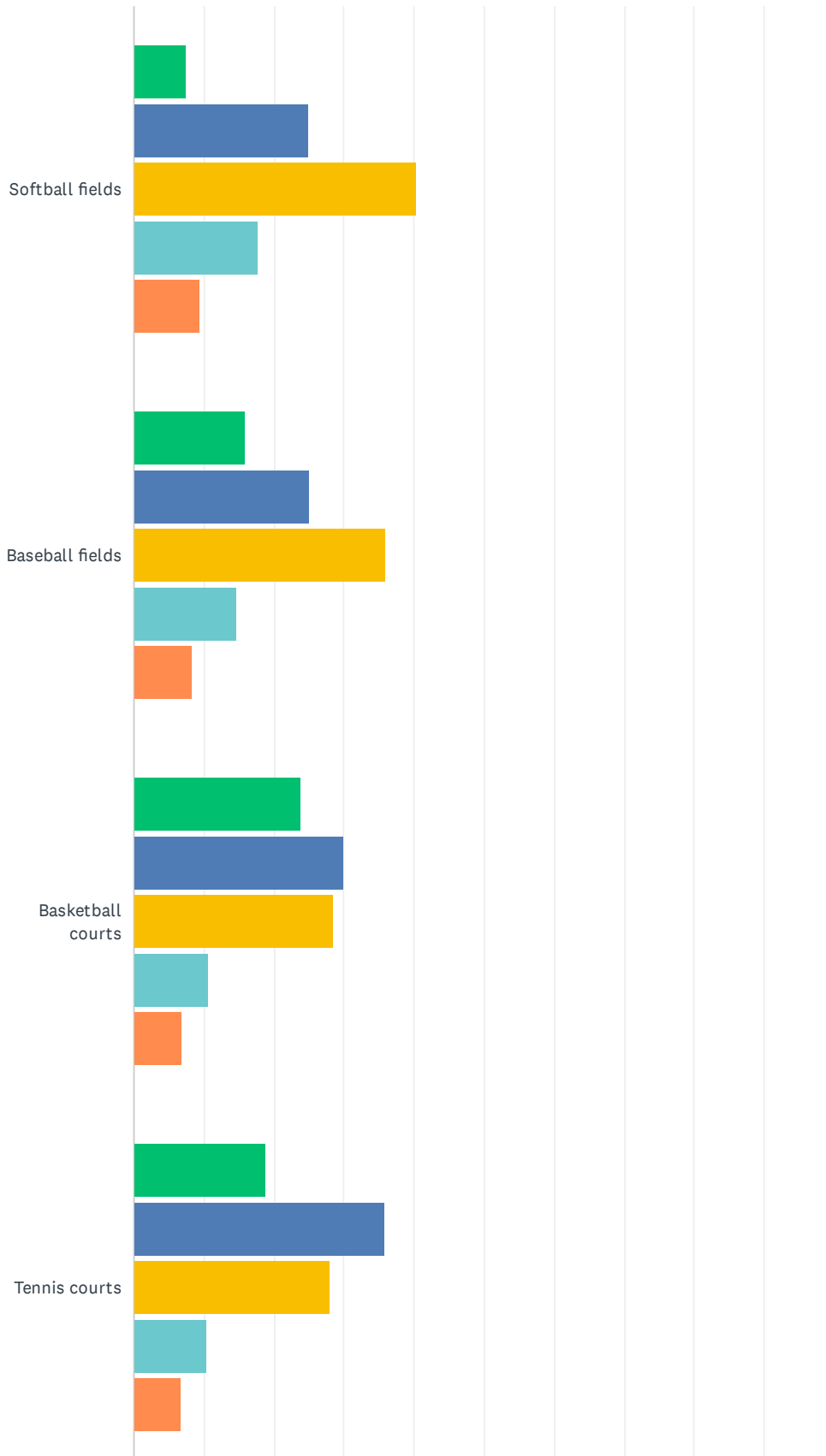
Answered: 457 Skipped: 24

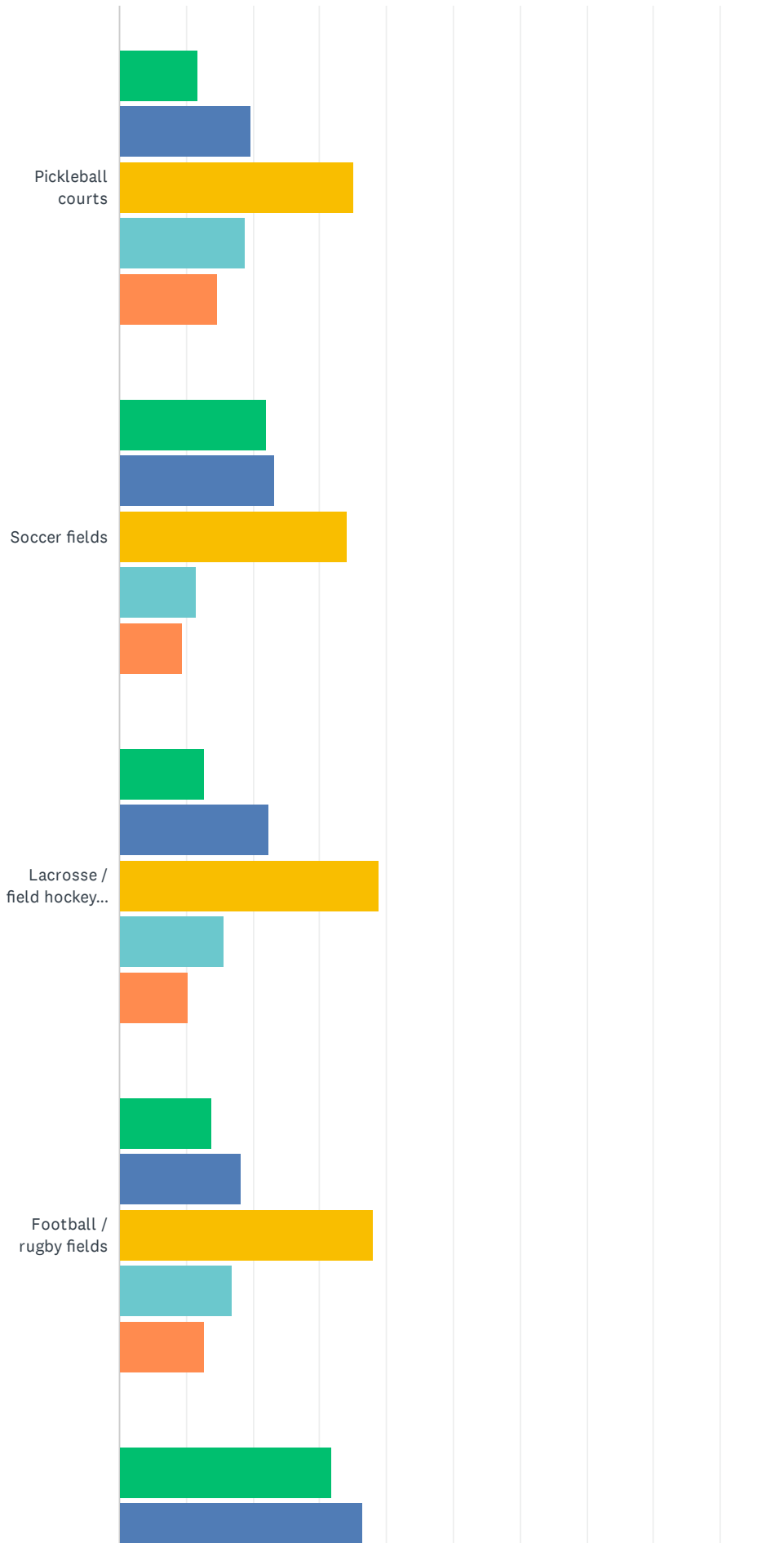


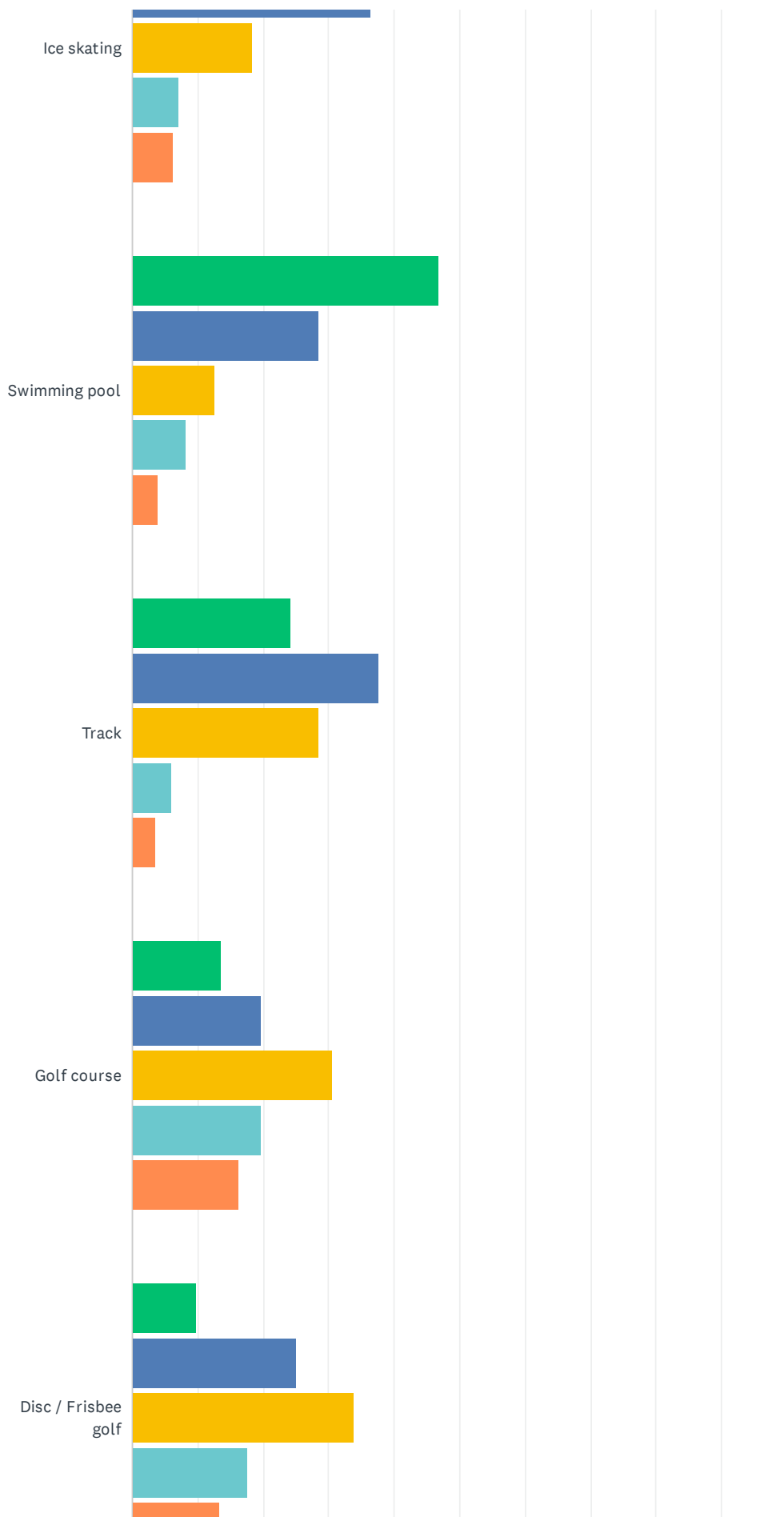
	VERY IMPORTANT	IMPORTANT	NEUTRAL	SOMEWHAT IMPORTANT	NOT IMPORTANT	TOTAL
Importance	51.86% 237	37.20% 170	7.66% 35	1.75% 8	1.53% 7	457

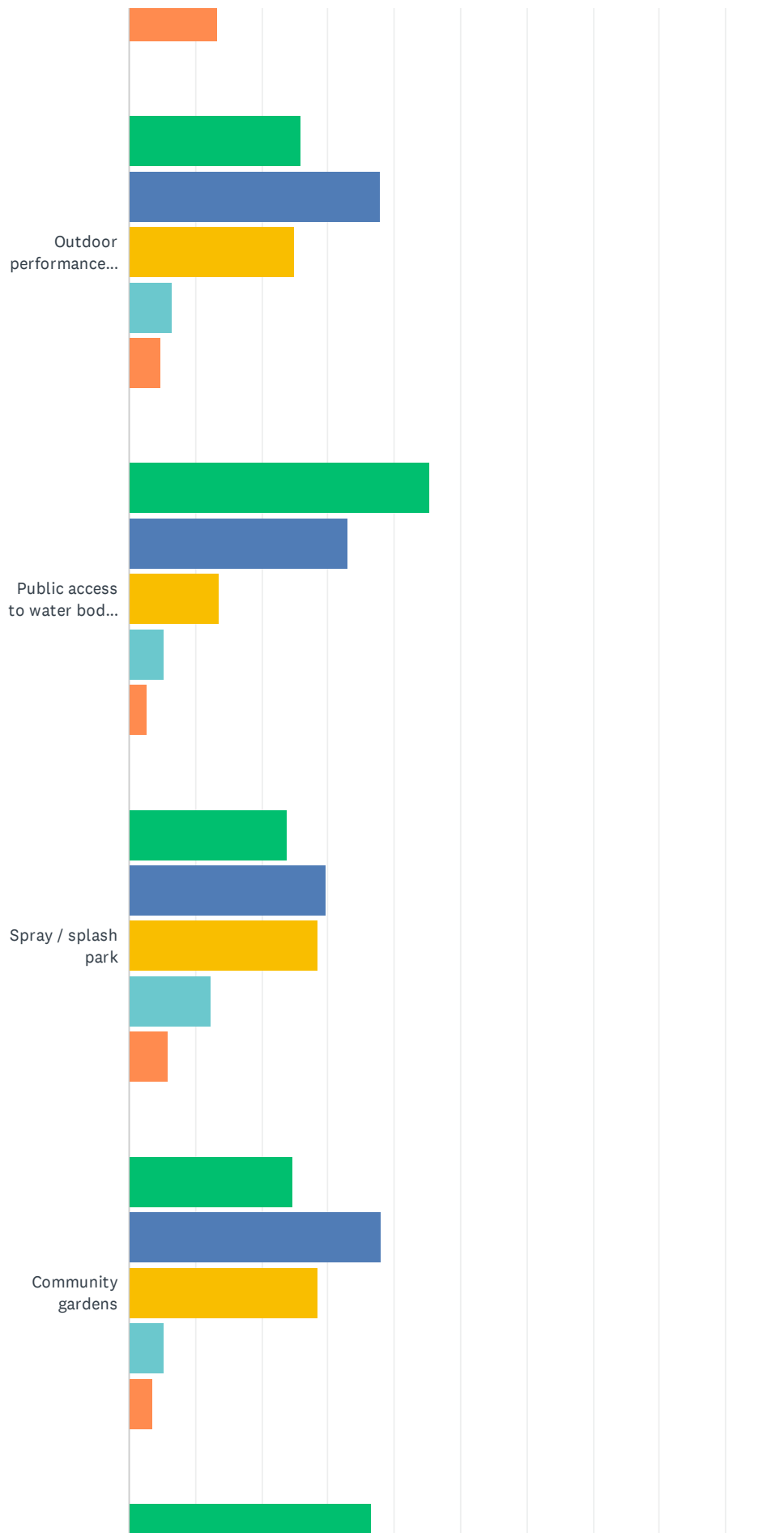
Q11 Which types of facilities would you most like to see in Town?

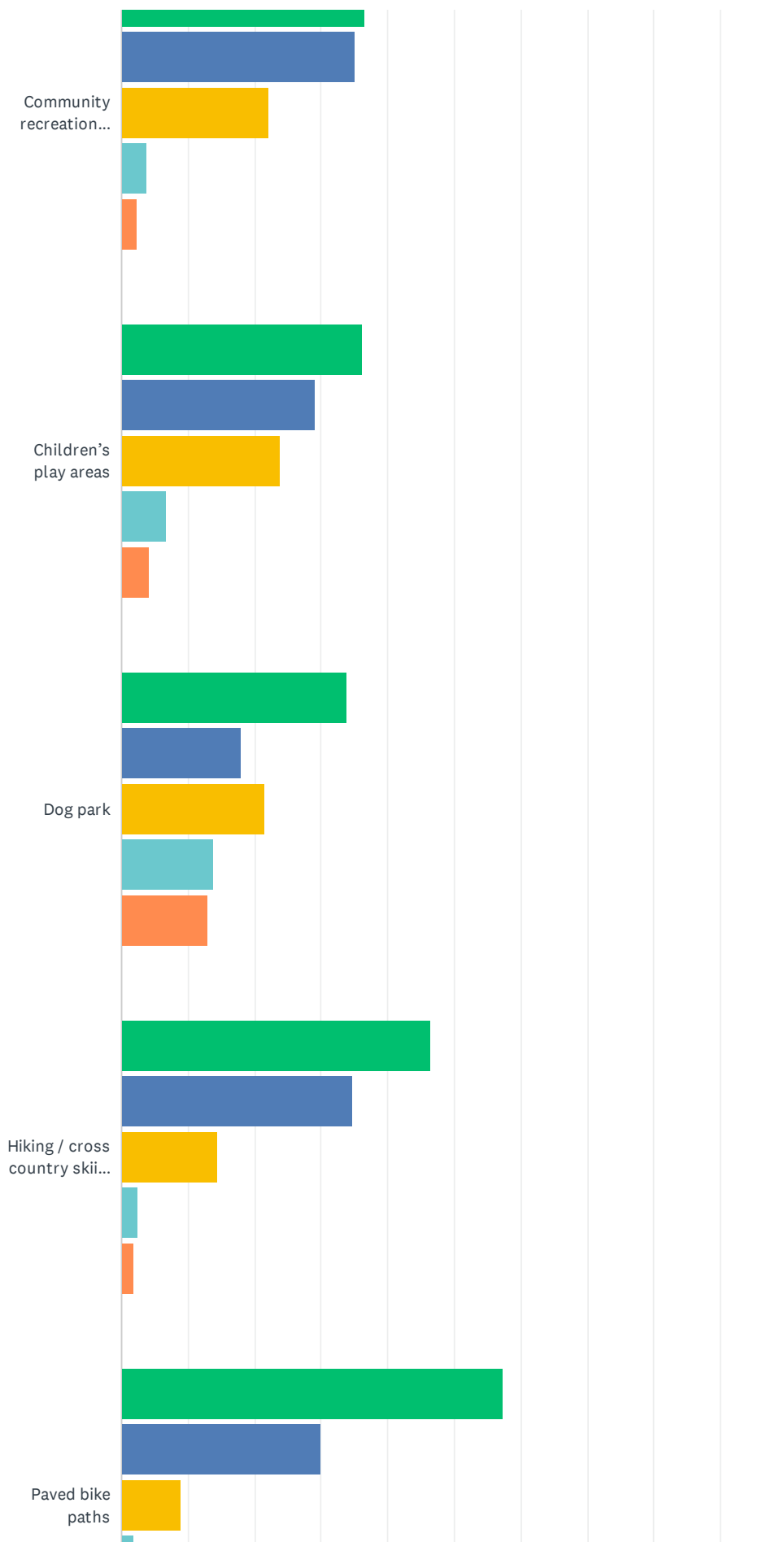
Answered: 432 Skipped: 49

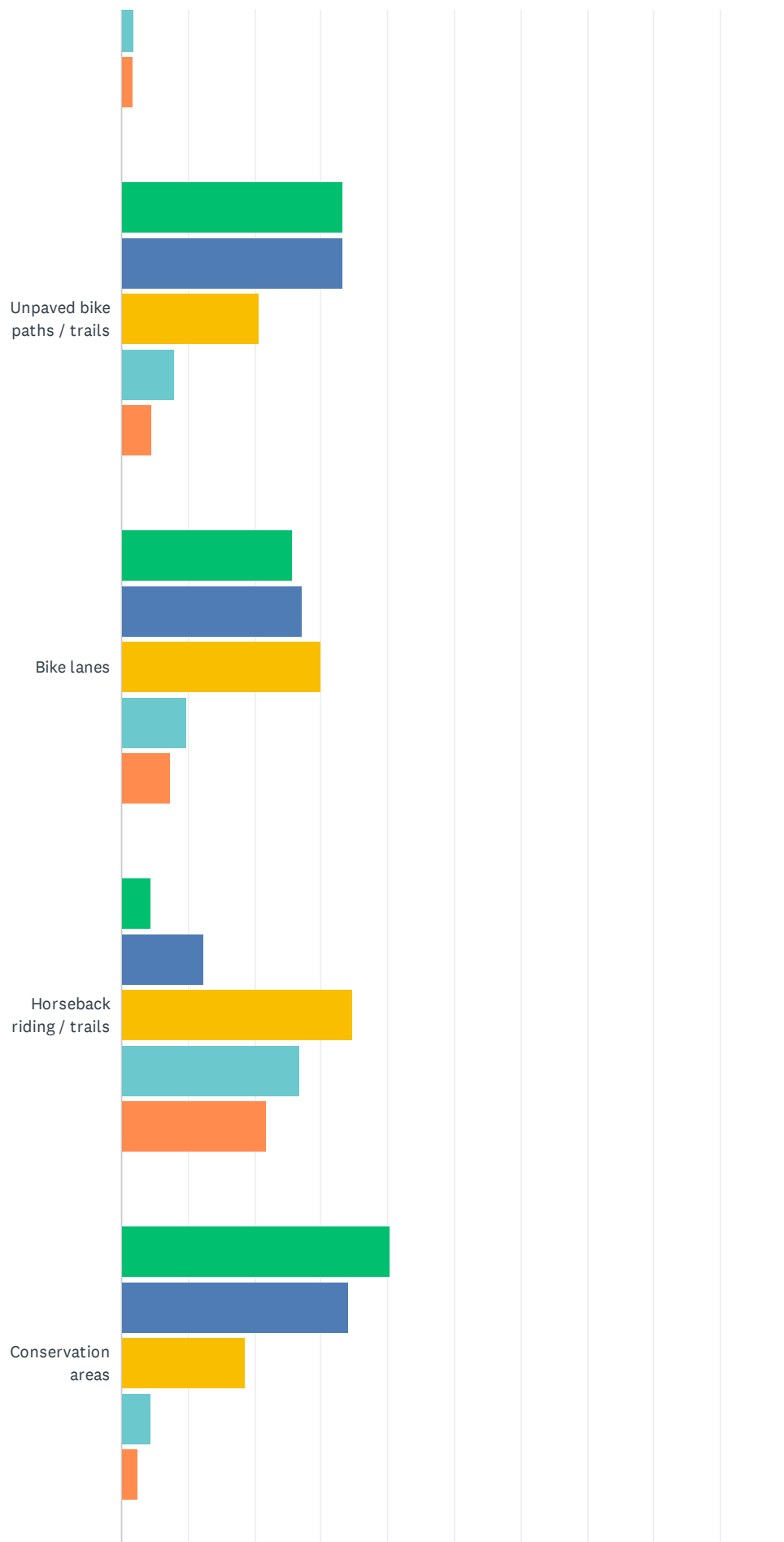


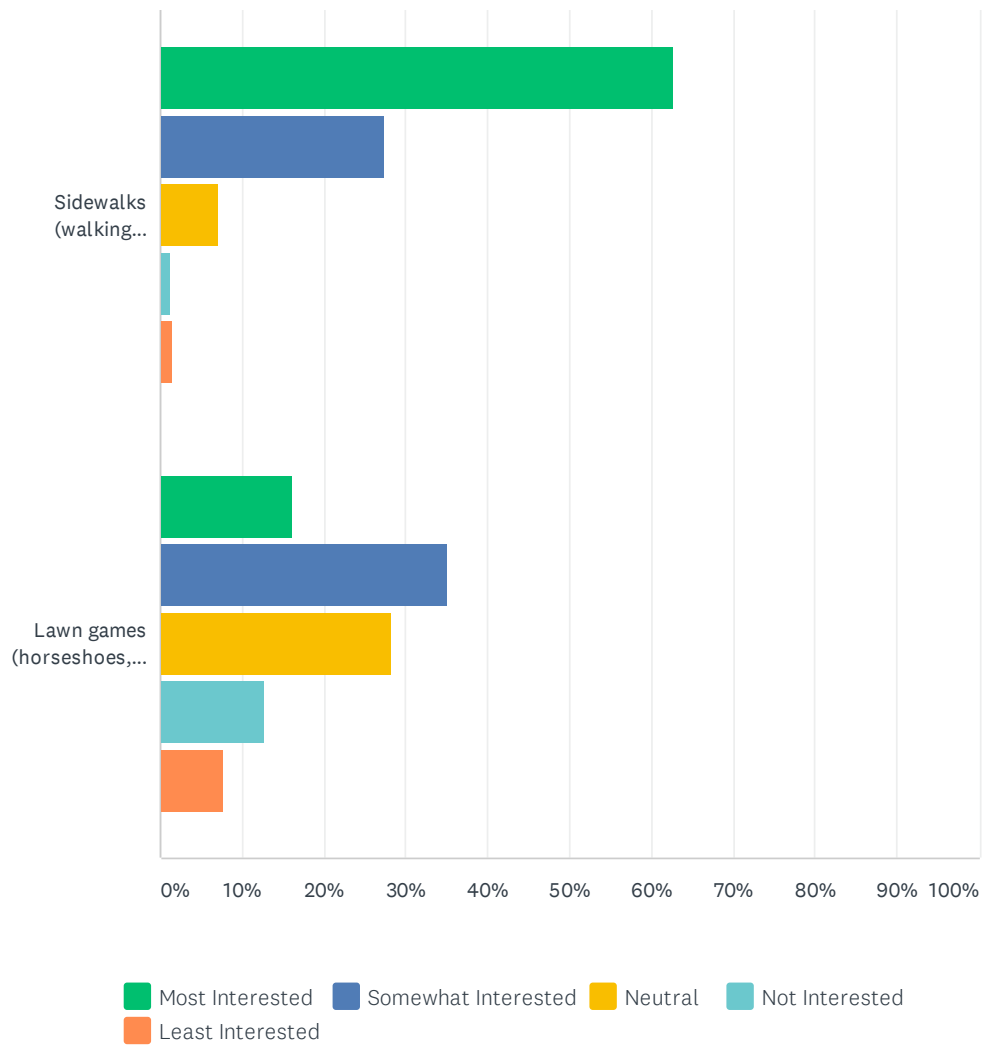










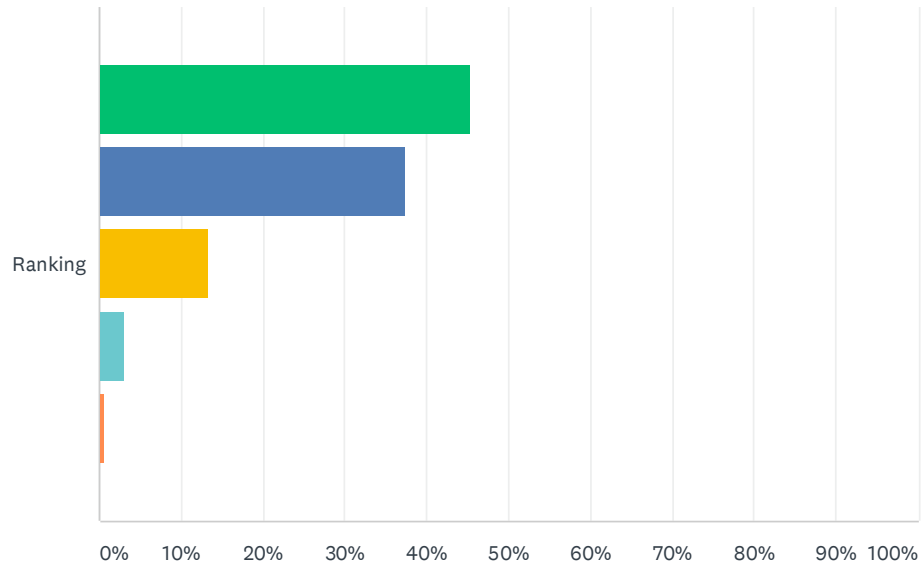


	MOST INTERESTED	SOMEWHAT INTERESTED	NEUTRAL	NOT INTERESTED	LEAST INTERESTED	TOTAL
Softball fields	7.46% 29	24.94% 97	40.36% 157	17.74% 69	9.51% 37	3
Baseball fields	15.95% 63	25.06% 99	35.95% 142	14.68% 58	8.35% 33	3
Basketball courts	23.75% 95	30.00% 120	28.50% 114	10.75% 43	7.00% 28	4
Tennis courts	18.80% 75	35.84% 143	28.07% 112	10.53% 42	6.77% 27	3
Pickleball courts	11.73% 46	19.64% 77	35.20% 138	18.88% 74	14.54% 57	3
Soccer fields	21.91% 87	23.17% 92	34.01% 135	11.59% 46	9.32% 37	3
Lacrosse / field hockey fields	12.85% 50	22.37% 87	38.82% 151	15.68% 61	10.28% 40	3
Football / rugby fields	13.88% 54	18.25% 71	38.05% 148	16.97% 66	12.85% 50	3
Ice skating	31.84% 128	36.32% 146	18.41% 74	7.21% 29	6.22% 25	4
Swimming pool	46.78% 189	28.47% 115	12.62% 51	8.17% 33	3.96% 16	4
Track	24.37% 97	37.69% 150	28.39% 113	6.03% 24	3.52% 14	3
Golf course	13.59% 53	19.74% 77	30.51% 119	19.74% 77	16.41% 64	3
Disc / Frisbee golf	9.92% 39	25.19% 99	33.84% 133	17.56% 69	13.49% 53	3
Outdoor performance space	25.88% 103	37.94% 151	24.87% 99	6.53% 26	4.77% 19	3
Public access to water bodies for swimming / boating / fishing	45.43% 184	33.09% 134	13.58% 55	5.19% 21	2.72% 11	4
Spray / splash park	23.87% 95	29.65% 118	28.39% 113	12.31% 49	5.78% 23	3
Community gardens	24.62% 97	38.07% 150	28.43% 112	5.33% 21	3.55% 14	3
Community recreation center/building	36.62% 145	35.10% 139	22.22% 88	3.79% 15	2.27% 9	3
Children's play areas	36.25% 145	29.00% 116	23.75% 95	6.75% 27	4.25% 17	4
Dog park	33.92% 136	17.96% 72	21.45% 86	13.72% 55	12.97% 52	4
Hiking / cross country skiing trails	46.38% 192	34.78% 144	14.49% 60	2.42% 10	1.93% 8	4
Paved bike paths	57.42% 236	29.93% 123	9.00% 37	1.95% 8	1.70% 7	4

Unpaved bike paths / trails	33.33% 135	33.33% 135	20.74% 84	7.90% 32	4.69% 19	4
Bike lanes	25.63% 101	27.16% 107	29.95% 118	9.90% 39	7.36% 29	3
Horseback riding / trails	4.37% 17	12.34% 48	34.70% 135	26.74% 104	21.85% 85	3
Conservation areas	40.35% 163	34.16% 138	18.56% 75	4.46% 18	2.48% 10	4
Sidewalks (walking routes)	62.84% 257	27.38% 112	7.09% 29	1.22% 5	1.47% 6	4
Lawn games (horseshoes, bocce, shuffleboard, etc.)	16.08% 64	35.18% 140	28.14% 112	12.81% 51	7.79% 31	3

Q12 To what extent do you agree or disagree with the following statement?The Town of Northborough would benefit from a fully accessible (ADA compliant) multi-use trail that interconnects with neighboring municipalities.

Answered: 427 Skipped: 54

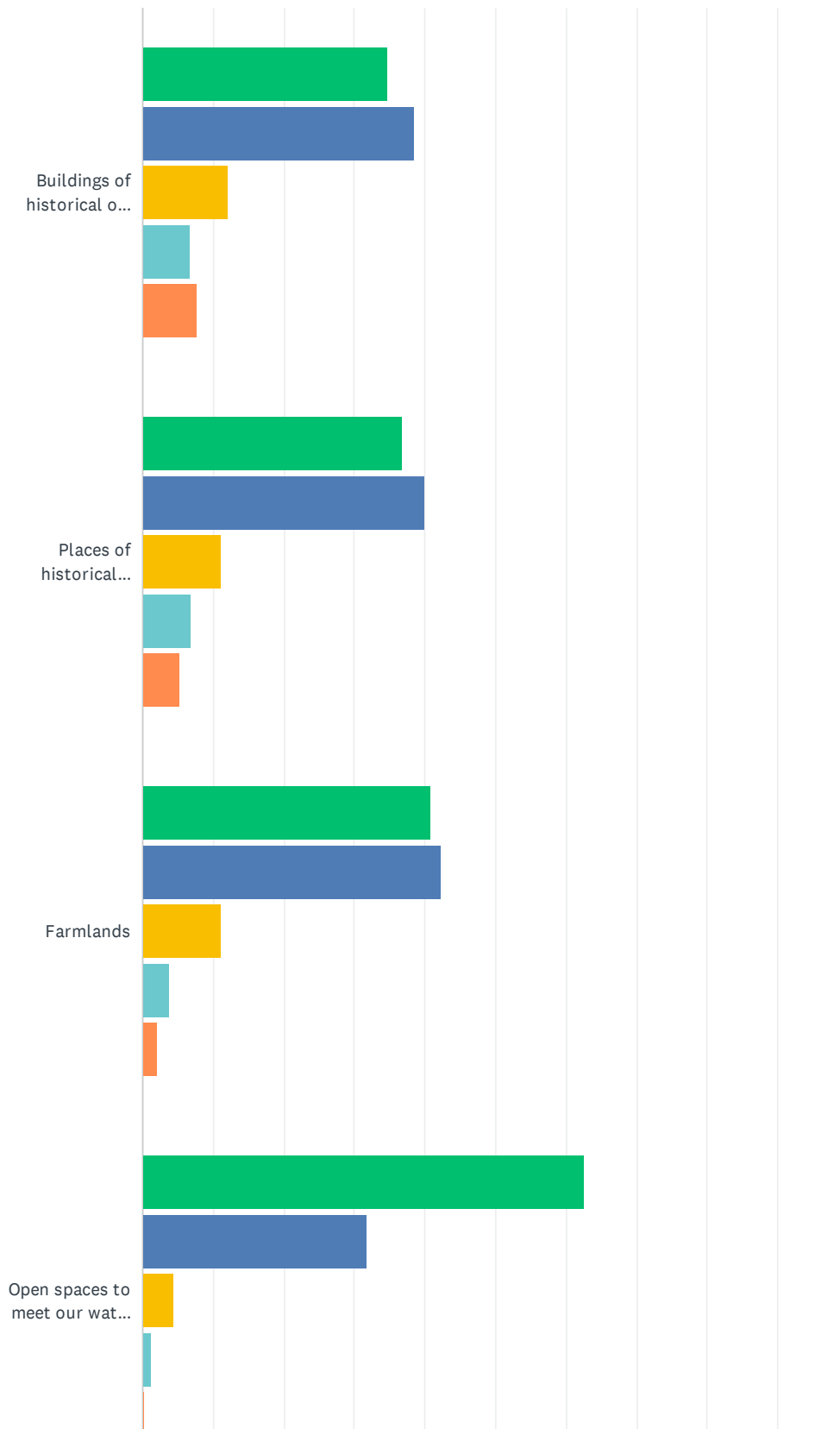


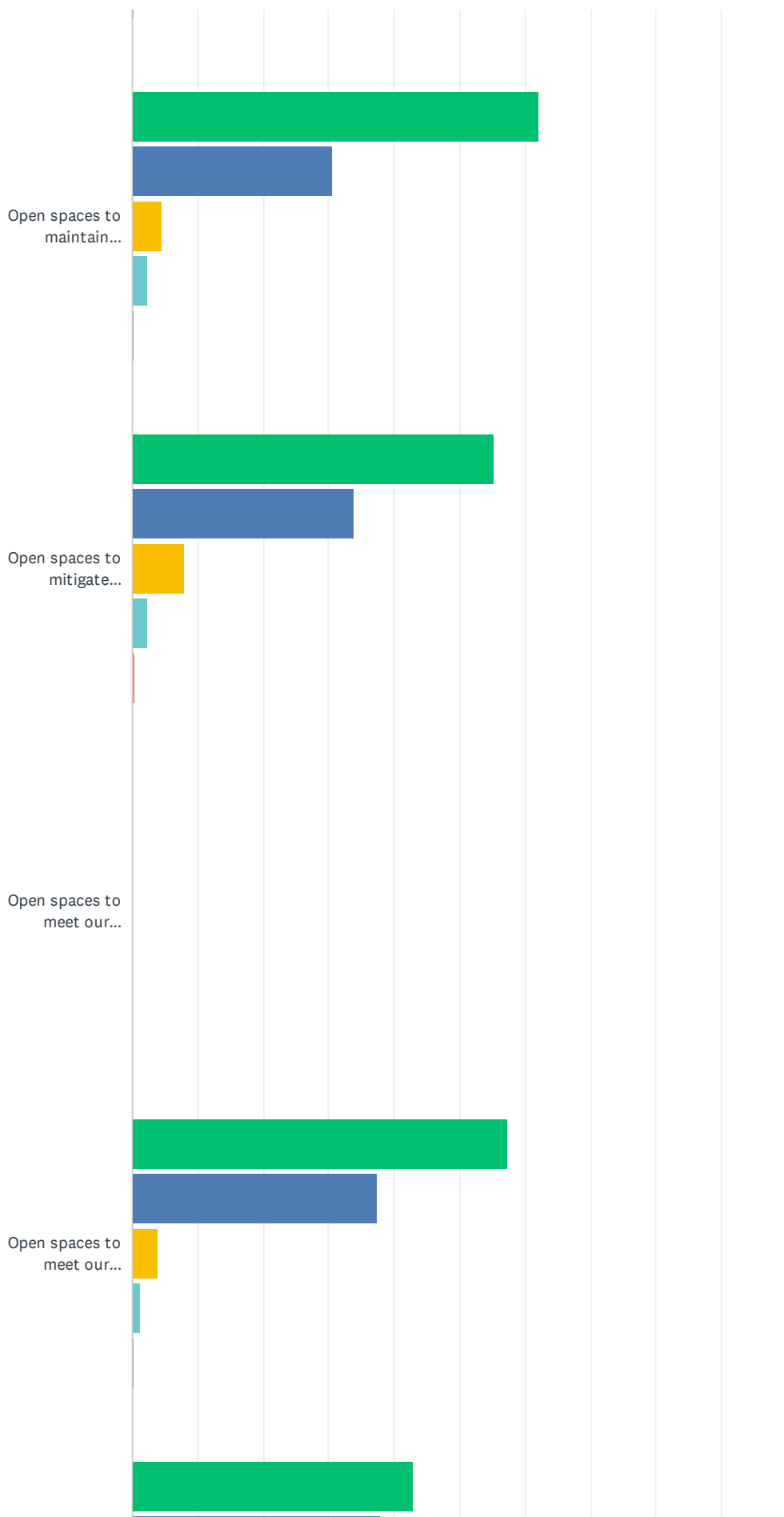
■ Strongly Agree
 ■ Agree
 ■ Neutral
 ■ Disagree
 ■ Strongly Disagree

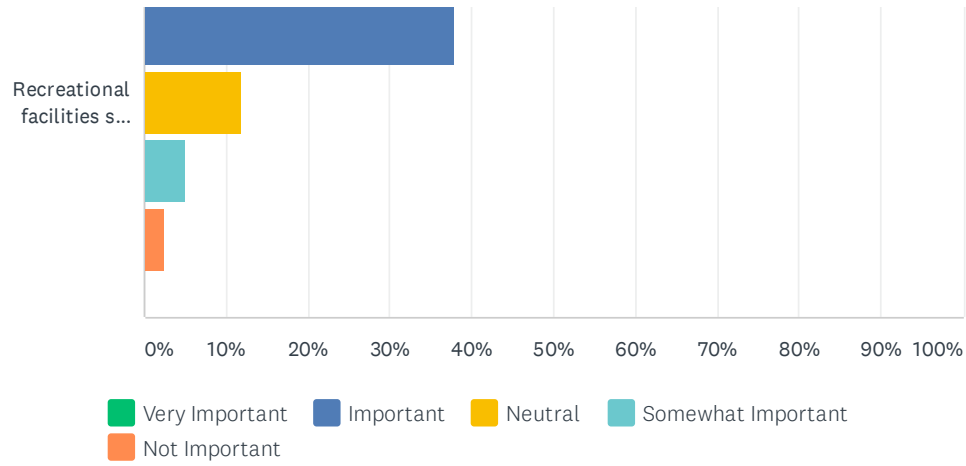
	STRONGLY AGREE	AGREE	NEUTRAL	DISAGREE	STRONGLY DISAGREE	TOTAL
Ranking	45.43% 194	37.47% 160	13.35% 57	3.04% 13	0.70% 3	427

Q13 How important is it to you to preserve and maintain the following in Northborough?

Answered: 431 Skipped: 50



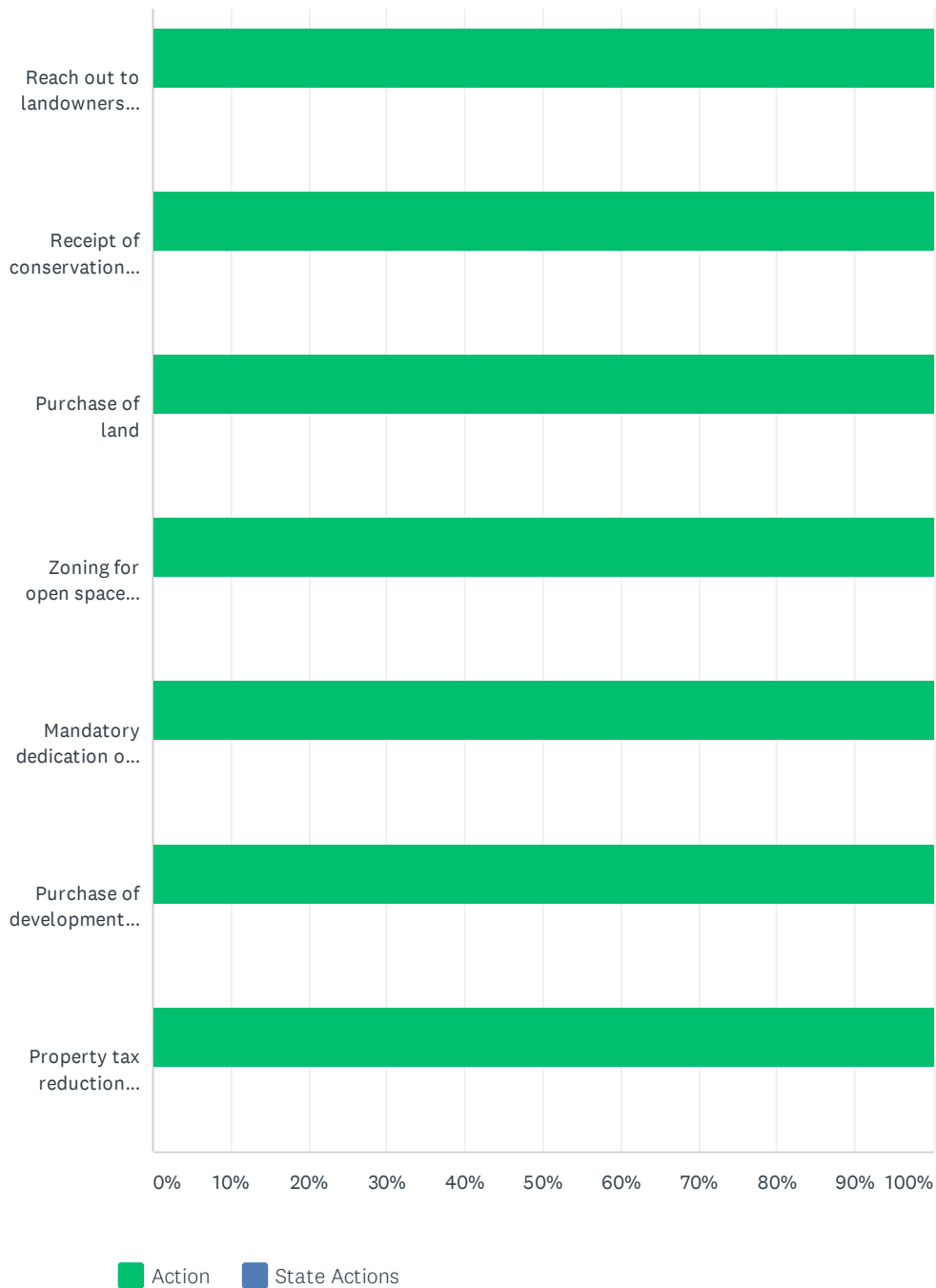




	VERY IMPORTANT	IMPORTANT	NEUTRAL	SOMEWHAT IMPORTANT	NOT IMPORTANT	TOTAL
Buildings of historical or architectural interest	34.81% 149	38.55% 165	12.15% 52	6.78% 29	7.71% 33	428
Places of historical value	36.88% 156	39.95% 169	11.11% 47	6.86% 29	5.20% 22	423
Farmlands	40.71% 173	42.35% 180	11.06% 47	3.76% 16	2.12% 9	425
Open spaces to meet our water and conservation needs	62.47% 268	31.70% 136	4.43% 19	1.17% 5	0.23% 1	429
Open spaces to maintain wildlife corridors and important habitat	62.24% 267	30.54% 131	4.66% 20	2.33% 10	0.23% 1	429
Open spaces to mitigate stormwater runoff and reduce the effects of flooding from extreme weather	55.27% 236	33.96% 145	7.96% 34	2.34% 10	0.47% 2	427
Open spaces to meet our recreational needs	0.00% 0	0.00% 0	0.00% 0	0.00% 0	0.00% 0	0
Open spaces to meet our aesthetic, scenic or passive recreation needs (forests, trails, etc)	57.24% 245	37.38% 160	3.97% 17	1.17% 5	0.23% 1	428
Recreational facilities such as athletic fields	42.79% 181	37.83% 160	11.82% 50	4.96% 21	2.60% 11	423

Q14 What Town actions do you favor to preserve open space? Please check all that apply.

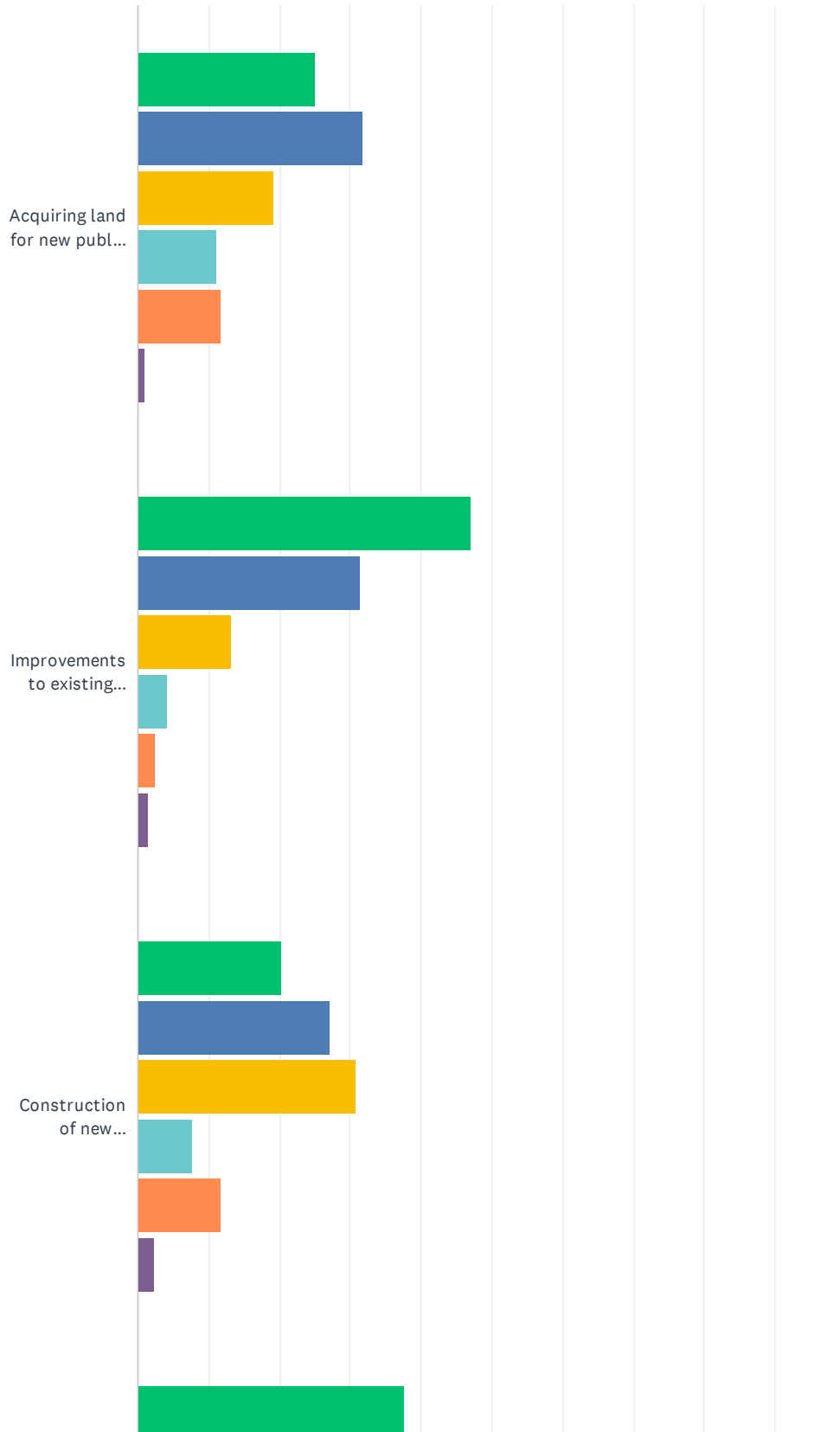
Answered: 402 Skipped: 79

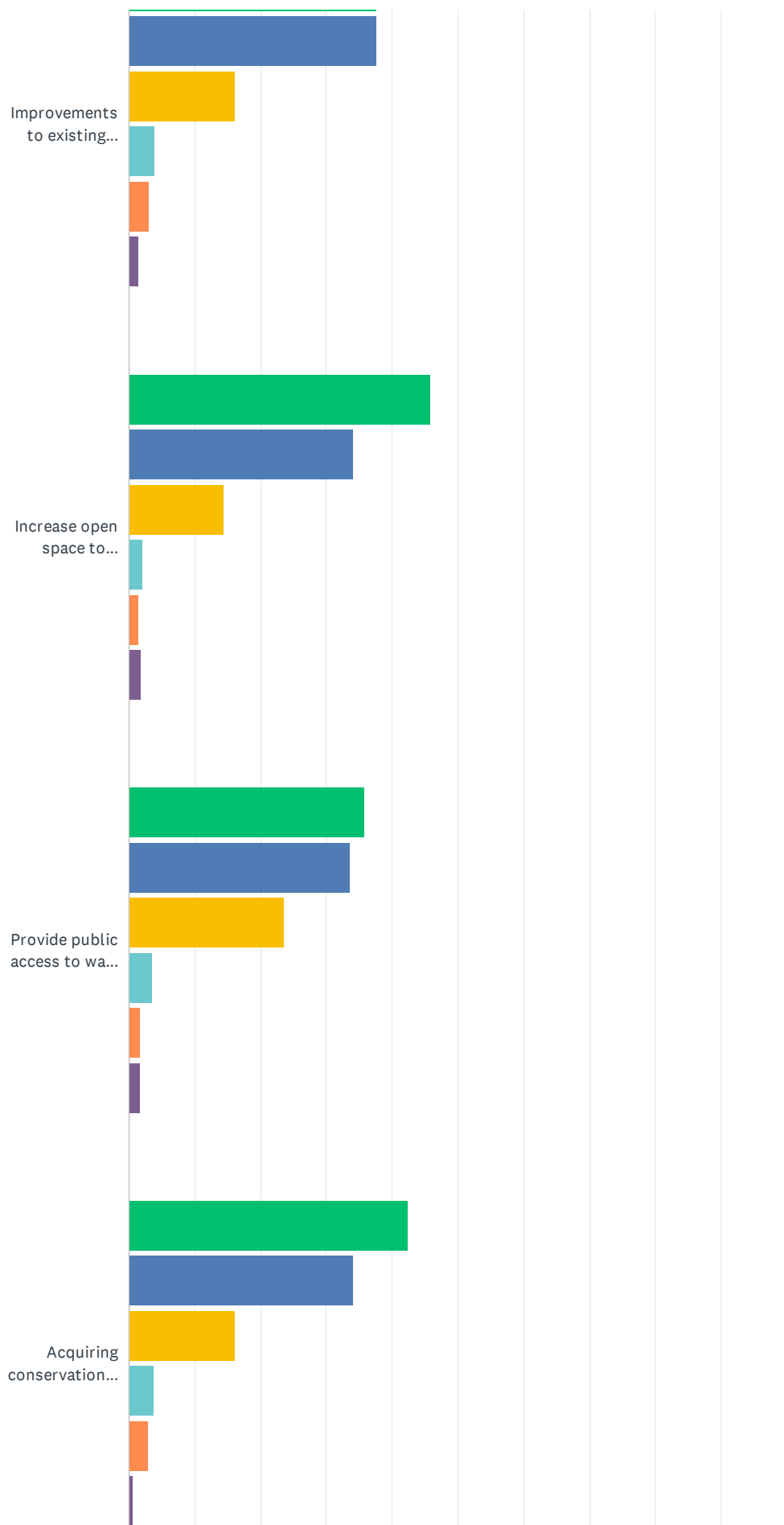


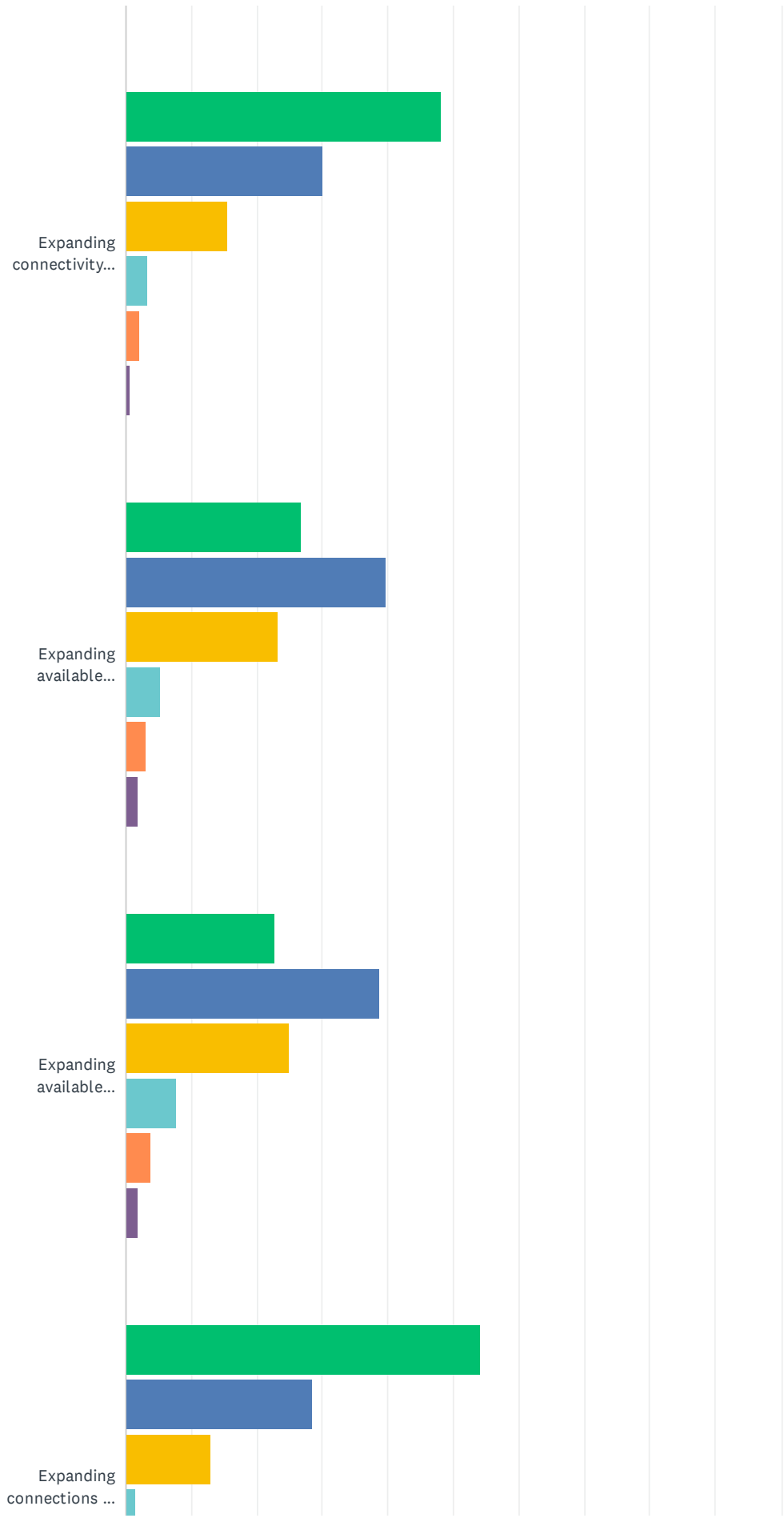
	ACTION	STATE ACTIONS	TOTAL RESPONDENTS
Reach out to landowners regarding donation of land or provisions for public access	100.00% 305	0.00% 0	305
Receipt of conservation restrictions	100.00% 179	0.00% 0	179
Purchase of land	100.00% 246	0.00% 0	246
Zoning for open space conservation	100.00% 312	0.00% 0	312
Mandatory dedication of open space by developers	100.00% 287	0.00% 0	287
Purchase of development rights	100.00% 156	0.00% 0	156
Property tax reduction program for forestry, farm and recreation land	100.00% 242	0.00% 0	242

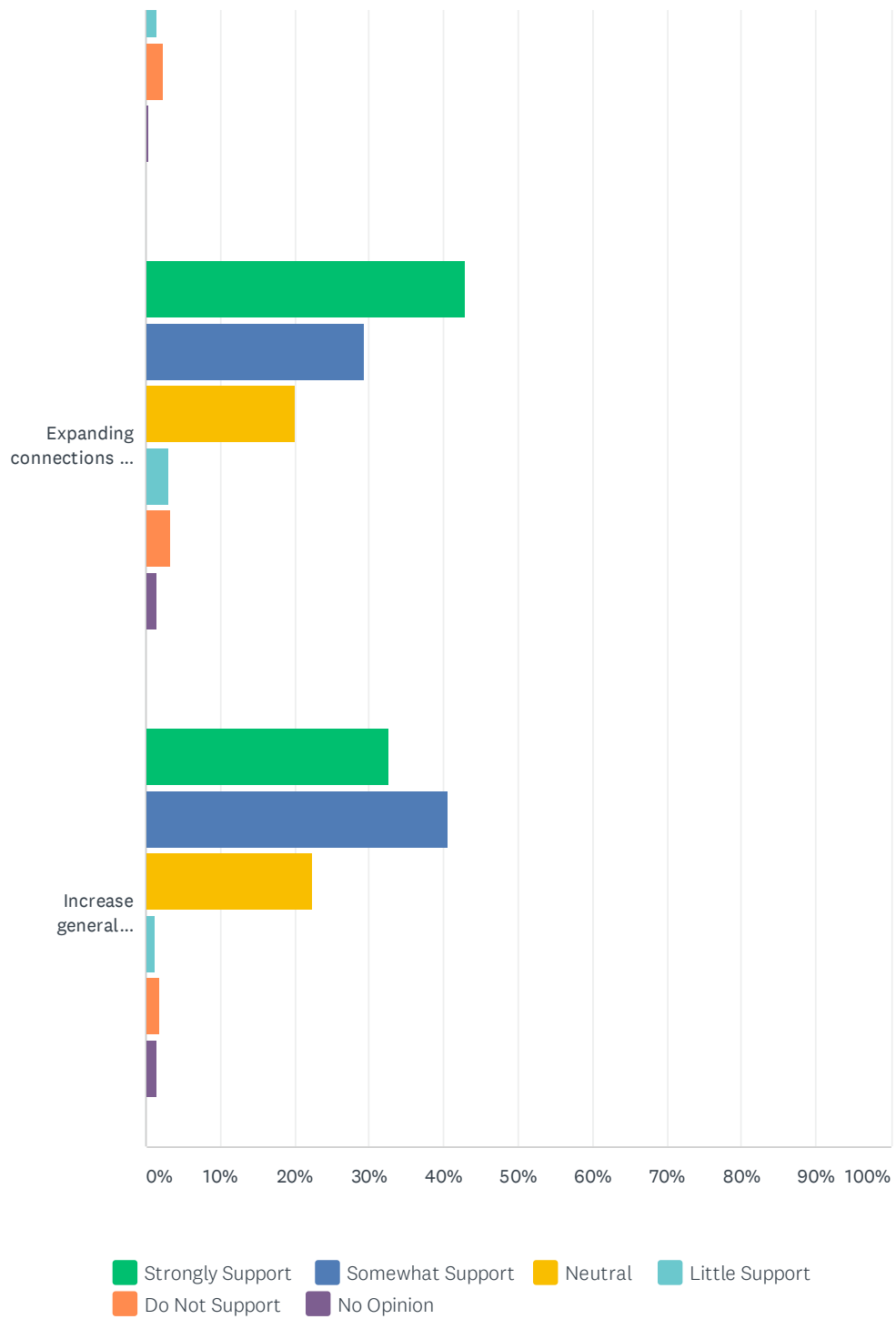
Q15 Please indicate your support for TOWN FUNDING for the following objectives (check one box per row).

Answered: 428 Skipped: 53





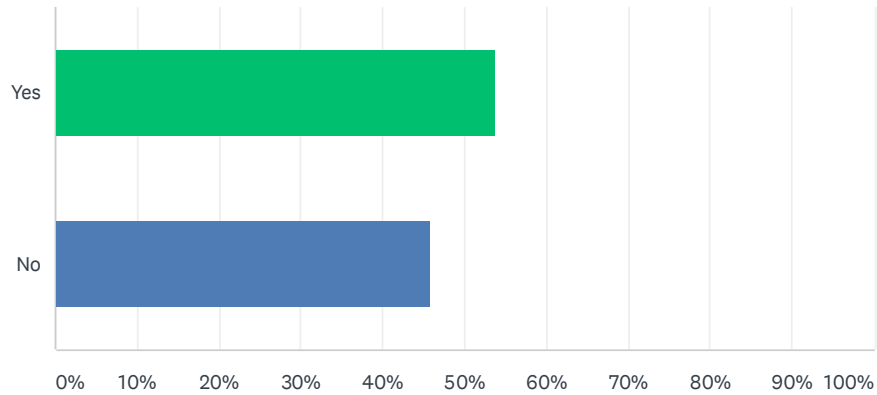




	STRONGLY SUPPORT	SOMEWHAT SUPPORT	NEUTRAL	LITTLE SUPPORT	DO NOT SUPPORT	NO OPINION	TOTAL
Acquiring land for new public athletic and recreation fields	25.18% 106	31.83% 134	19.24% 81	11.16% 47	11.64% 49	0.95% 4	421
Improvements to existing athletic and recreation fields	47.16% 199	31.28% 132	13.27% 56	4.27% 18	2.61% 11	1.42% 6	422
Construction of new playground facilities	20.38% 85	27.10% 113	30.70% 128	7.67% 32	11.75% 49	2.40% 10	417
Improvements to existing playground facilities	37.74% 160	37.74% 160	16.04% 68	4.01% 17	3.07% 13	1.42% 6	424
Increase open space to protect Town water resources, including groundwater protection	45.84% 193	34.20% 144	14.49% 61	2.14% 9	1.43% 6	1.90% 8	421
Provide public access to water resources in town	35.80% 150	33.65% 141	23.63% 99	3.58% 15	1.67% 7	1.67% 7	419
Acquiring conservation lands for passive recreation use (e.g., trails)	42.38% 178	34.05% 143	16.19% 68	3.81% 16	2.86% 12	0.71% 3	420
Expanding connectivity between existing hiking trails	48.22% 203	30.17% 127	15.44% 65	3.33% 14	2.14% 9	0.71% 3	421
Expanding available parking at open space destinations	26.79% 112	39.71% 166	23.21% 97	5.26% 22	3.11% 13	1.91% 8	418
Expanding available parking at recreational destinations	22.89% 95	38.80% 161	24.82% 103	7.71% 32	3.86% 16	1.93% 8	415
Expanding connections for walking (e.g. sidewalks, connecting trails)	54.16% 228	28.50% 120	13.06% 55	1.43% 6	2.38% 10	0.48% 2	421
Expanding connections for biking (e.g. off-road paths and on-road lanes)	42.79% 181	29.31% 124	20.09% 85	3.07% 13	3.31% 14	1.42% 6	423
Increase general maintenance of existing grounds, buildings and/or landscape	32.61% 136	40.53% 169	22.30% 93	1.20% 5	1.92% 8	1.44% 6	417

Q16 The Community Preservation Act (CPA) is funded through a local option surcharge on property tax bills and a state match. Northborough originally voted to enact the CPA with a 1.5% surcharge compared to the maximum allowable surcharge of 3%. Would you support an increased CPA surcharge to implement any of the objectives you indicated you "Strongly Support" above?

Answered: 416 Skipped: 65



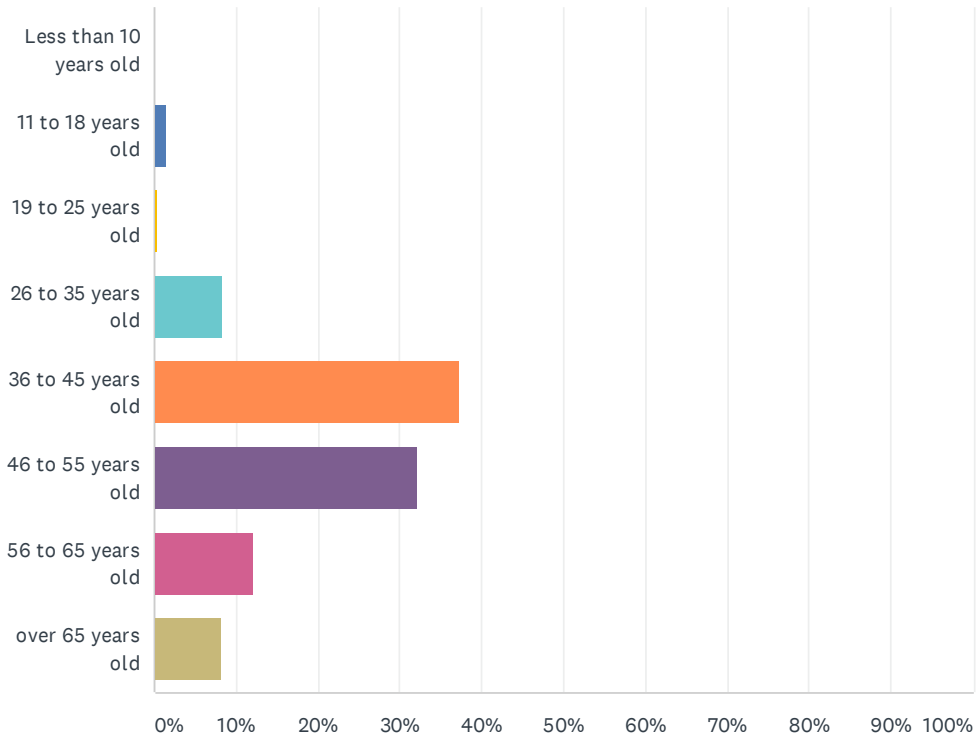
ANSWER CHOICES	RESPONSES	
Yes	53.85%	224
No	45.91%	191
TOTAL		416

Q17 Additional Comments: Please use this opportunity to submit any additional comments that you feel are important to Northborough's open space and recreation planning and protection efforts. Your input is highly valued.

Answered: 134 Skipped: 347

Q18 What is your age?

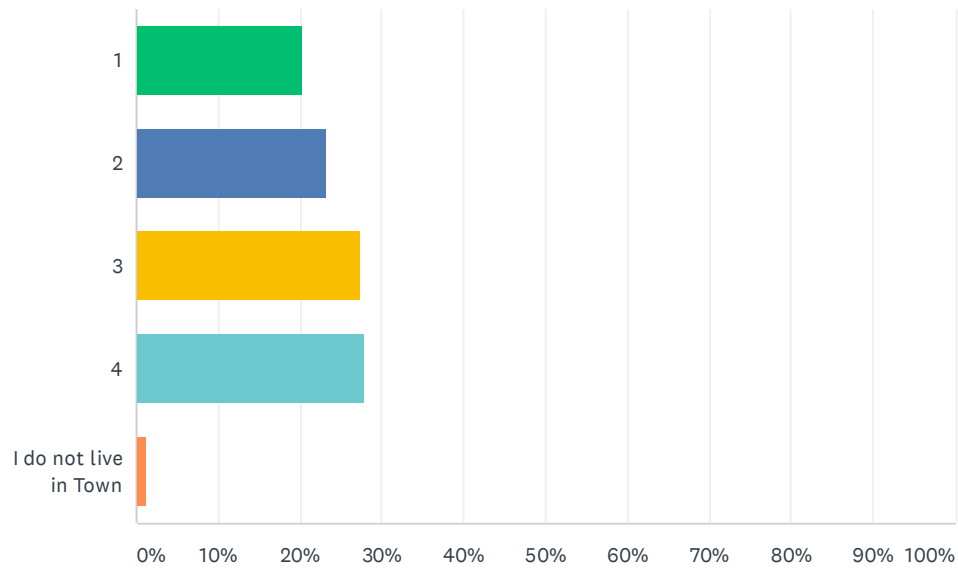
Answered: 414 Skipped: 67



ANSWER CHOICES	RESPONSES	
Less than 10 years old	0.00%	0
11 to 18 years old	1.45%	6
19 to 25 years old	0.48%	2
26 to 35 years old	8.45%	35
36 to 45 years old	37.20%	154
46 to 55 years old	32.13%	133
56 to 65 years old	12.08%	50
over 65 years old	8.21%	34
TOTAL		414

Q19 Using the map below please indicate in which voting precinct you live.

Answered: 405 Skipped: 76



ANSWER CHOICES	RESPONSES	
1	20.25%	82
2	23.21%	94
3	27.41%	111
4	27.90%	113
I do not live in Town	1.23%	5
TOTAL		405

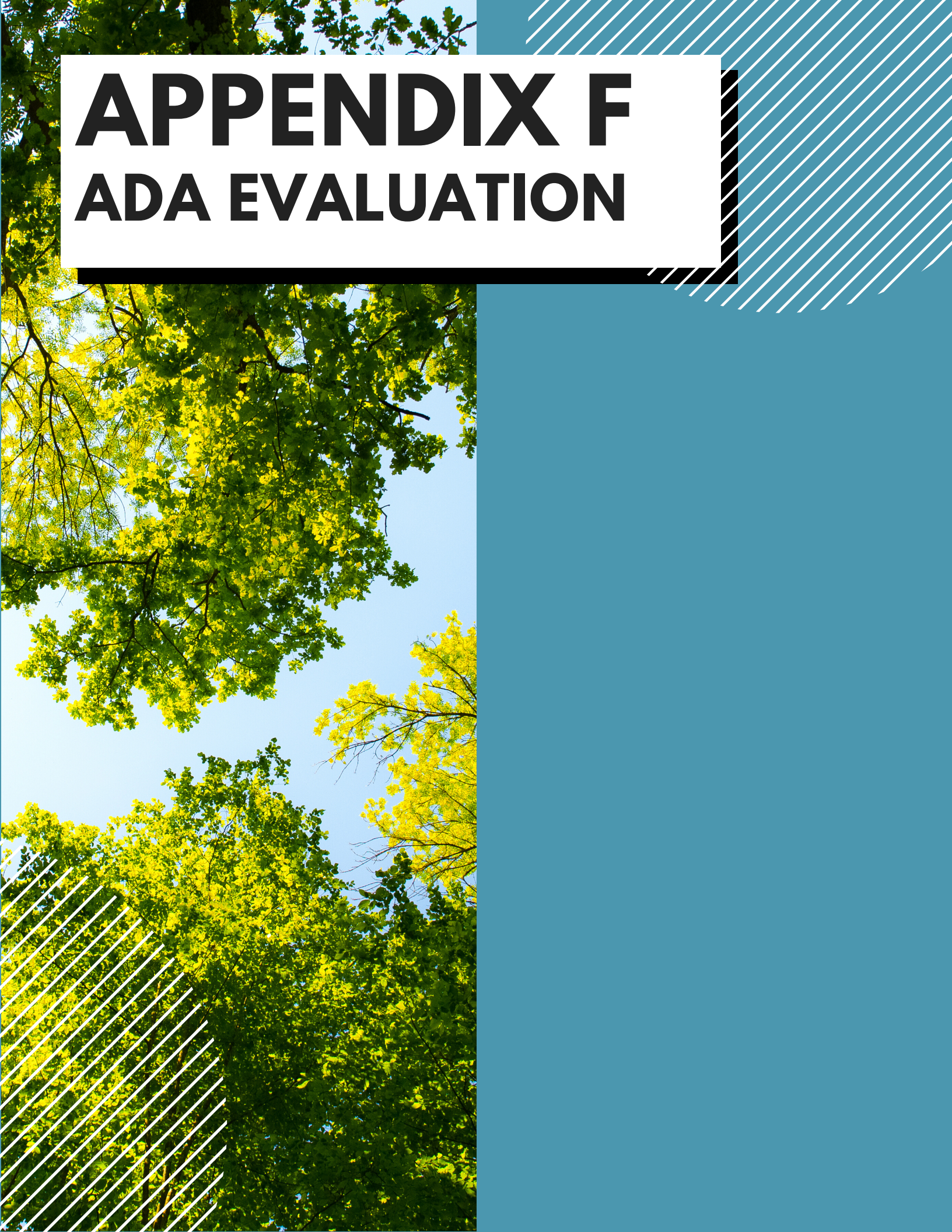
Q20 *Optional***Your contact information will make it possible for us to...1) see who is responding to the survey2) provide you with updates on the Open Space and Recreation Plan (including the date, time and location of the public forum), and 3) identify and contact potential volunteers**

Answered: 104 Skipped: 377

ANSWER CHOICES	RESPONSES	
Name:	87.50%	91
Company:	4.81%	5
Address:	82.69%	86
Address 2:	4.81%	5
City/Town:	87.50%	91
State:	86.54%	90
ZIP/Postal Code:	87.50%	91
Email Address:	83.65%	87

APPENDIX F

ADA EVALUATION





TOWN OF NORTHBOROUGH

Personnel Office
63 Main Street
Northborough, MA 01532-1994
(508) 393-5040 Phone
(508) 393-6996 Fax
personnel@town.northborough.ma.us

ADA GRIEVANCE PROCEDURE

The Town of Northborough, Massachusetts has adopted an internal grievance procedure providing for prompt and equitable resolution of complaints alleging any action prohibited by the U. S. Department of Justice regulations implementing Title II of the AMERICANS WITH DISABILITIES ACT. Title II states, in part, that “no otherwise qualified disabled individual shall, solely by reason of such disability, be excluded from the participation in, be denied the benefits of, or be subjected to discrimination” in programs or activities sponsored by a public entity.

Complaints should be addressed to: Assistant Town Administrator, 63 Main Street, Northborough, Massachusetts, (508) 393-5040. The Assistant Town Administrator has been designated to coordinate ADA compliance efforts and is available to process and adjudicate grievances. Those who wish to file a complaint should follow the following guidelines:

1. File the complaint in writing, or verbally, briefly describing the alleged violation of the regulations. Be sure to include the name and address of the person filing the complaint.
2. A complaint should be filed within ten (10) days after the complainant becomes aware of the alleged violation.
3. An investigation, as may be appropriate, shall follow the filing of a complaint. The investigation shall be conducted by the Assistant Town Administrator and/or his/her designees. These rules contemplate informal but thorough investigations, affording all interested persons and their representatives, if any, an opportunity to submit evidence relevant to a complaint.
4. A written determination as to the validity of the complaint and a description of the resolution, if any, shall be issued by the Assistant Town Administrator and a copy forwarded to the complainant no later than twenty-one (21) days after its filing date.



TOWN OF NORTHBOROUGH

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personnel@town.northborough.ma.us

5. The Americans with Disabilities Act Coordinator shall maintain the files and records of the Town of Northborough relating to the complaints filed.
6. The complainant can request a reconsideration of the case in instances where he or she is dissatisfied with the resolution. The request for reconsideration should be made within ten (10) days of the complainant receiving a copy of the resolution to the original complaint. The person responsible for handling appeals is the Administrative Officer of the Town of Northborough.
7. The right of a person to a prompt and equitable resolution of the complaint filed hereunder shall not be impaired by the person's pursuit of other remedies such as the filing of an ADA complaint with the responsible Federal department or agency. Use of this grievance procedure is not a prerequisite to the pursuit of other remedies.
8. These rules shall be construed to protect the substantive rights of interested persons to meet appropriate due process standards and to assure that the Town of Northborough complies with the ADA and implementing regulations.

LOCATION/FACILITY/PROGRAM

Facility: Assabet

Activity	Equipment	Notes	Comments
Picnic Facilities	Tables & Benches	Picnic tables - 2 handicapped	Yes
	Grills	none	
	Trash Cans	2 permanent cans	
	Picnic Shelters	none	
Trails		Yes	Rough surface with ruts and roots
Swimming Facilities	Pools	None	
	Beaches	None	
Play Areas (tot lots)	All Play Equipment i.e. swings, slides	Not Accessible, To be removed 2021	
	Access Routes	None	
Game Areas: *ballfield; *basketball; *tennis	Access Routes	None	
	Equipment	Basketball Court to be removed Splash pad	
Boat Docks	Access Routes	None	
Fishing Facilities	Access Routes	None	
	Equipment	None	
Programing	Are special programs at your facilities accessible?	None	
Services and Technical Assistance	None		

PARKING

Total Spaces	Required Accessible Spaces	Facility: Assabet	Comment/Transition Notes
Up to 25	1 space		
26-50	2 spaces	38 with 2 handicapped	Yes
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		

Specification for Accessible Spaces

Facility: Assabet

Specification for Accessible Spaces	Facility: Assabet	Comment/Transition Notes
Accessible space located closest to accessible entrance		Yes
Where spaces cannot be located within 200 ft of accessible entrance, drop-off area is provided within 100 ft.		Yes
Minimum width of 13 ft includes 8 ft space plus 5 ft access aisle		Yes
Van space – minimum of 1 van space for every accessible space, 8 ft wide plus 8 ft aisle. Alternative is to make		Yes

Sign with international symbol of accessibility at each space or pair of spaces	Yes
Sign minimum 5 ft, maximum 8 ft to top of sign	Yes
Surface evenly paved or hard-packed (no cracks)	Yes
Surface slope less than 1:20, 5%	Yes
Curbside to pathway from parking lot at each space or pair of spaces, if sidewalk (curb) is present	Yes
Curbside is a minimum width of 3 ft, excluding sloped sides, has sloped sides, all slopes not to exceed 1:12, and	Yes

RAMPS

Specifications	Facility: Assabet	Comment/Transition Notes
Slope Maximum 1:12		none
Minimum width 4 ft between handrails		none
Handrails on both sides if ramp is longer than 6 ft		none
Handrails at 34" and 19" from ramp surface		none
Handrails extend 12" beyond top and bottom		none
Handgrip oval or round		none
Handgrip smooth surface		none
Handgrip diameter between 1 1/4" and 2"		none
Clearance of 1 1/2" between wall and wall rail		none
Non-slip surface		none
Level platforms (4ft x 4 ft) at every 30 ft, at top, at bottom, at change of direction		none

SITE ACCESS, PATH OF TRAVEL, ENTRANCES

Site Access	Facility: Assabet	Comment/Transition Notes
Accessible path of travel from passenger disembarking area and parking area to accessible entrance		Yes
Disembarking area at accessible entrance		Yes
Surface evenly paved or hard-packed		Yes
No ponding of water		Yes

Path of Travel	Facility: Assabet	Comment/Transition Notes
Path does not require the use of stairs		Yes
Path is stable, firm and slip resistant		Yes
3 ft wide minimum		Yes
Slope maximum 1:20 (5%) and maximum cross pitch is 2% (1:50).		no
Continuous common surface, no changes in level greater than 1/2 inch		no
Any objects protruding onto the pathway must be detected by a person with a visual disability using a cane		none
Objects protruding more than 4" from the wall must be within 27" of the ground, or higher than 80"		none
Curbside on the pathway must have curbside cuts at drives, parking and drop-offs		none

Entrances	Facility: Assabet	Comment/Transition Notes
Primary public entrances accessible to person using wheelchair, must be signed, gotten to independently, and not		None
Level space extending 5 ft. from the door, interior and exterior of entrance doors		None
Minimum 32" clear width opening (i.e. 36" door with standard hinge)		None
At least 18" clear floor area on latch, pull side of door		None
Door handle no higher than 48" and operable with a closed fist		None
Vestibule is 4 ft plus the width of the door swinging into the space		None
Entrance(s) on a level that makes elevators accessible		None
Door mats less than 1/2" thick are securely fastened		None
Door mats more than 1/2" thick are recessed		None
Grates in path of travel have openings of 1/2" maximum		None
Signs at non-accessible entrance(s) indicate direction to accessible entrance		None
Emergency egress – alarms with flashing lights and audible signals, sufficiently lighted		None

STAIRS and DOORS

Stairs	Facility: Assabet	Comment/Transition Notes
No open risers		None
Nosings not projecting		None
Treads no less than 11" wide		None
Handrails on both sides		None
Handrails 34"-38" above tread		None
Handrail extends a minimum of 1 ft beyond top and bottom riser (if no safety hazard and space permits)		None
Handgrip oval or round		None
Handgrip has a smooth surface		None
Handgrip diameter between 1 1/4" and 1 1/2"		None

1 1/2" clearance between wall and handrail	None
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Doors

	Facility: Assabet	Comment/Transition Notes
Minimum 32" clear opening		None
At least 18" clear floor space on pull side of door		None
Closing speed minimum 3 seconds to within 3" of the latch		None
Maximum pressure 5 pounds interior doors		None
Threshold maximum 1/2" high, beveled on both sides		None
Hardware operable with a closed fist (no conventional door knobs or thumb latch devices)		None
Hardware minimum 36", maximum 48" above the floor		None
Clear, level floor space extends out 5 ft from both sides of the door		None
Door adjacent to revolving door is accessible and unlocked		None
Doors opening into hazardous area have hardware that is knurled or roughened		None

RESTROOMS – also see Doors and Vestibules

	Facility: Assabet	Comment/Transition Notes
5 ft turning space measured 12" from the floor		Yes - Port-O-Potty

At least one Sink:

	Facility: Assabet	Comment/Transition Notes
Clear floor space of 30" by 48" to allow a forward approach		None
Mounted without pedestal or legs, height 34" to top of rim		None
Extends at least 22" from the wall		None
Open knee space a minimum 19" deep, 30" width, and 27" high		None
Cover exposed pipes with insulation		None
Faucets operable with closed fist (lever or spring activated handle)		None

At least one Stall:

	Facility: Assabet	Comment/Transition Notes
Accessible to person using wheelchair at 60" wide by 72" deep		None
Stall door is 36" wide		None
Stall door swings out		None
Stall door is self closing		None
Stall door has a pull latch		None
Lock on stall door is operable with a closed fist, and 32" above the floor		None
Coat hook is 54" high		None

Toilet

	Facility: Assabet	Comment/Transition Notes
18" from center to nearest side wall		None
42" minimum clear space from center to farthest wall or fixture		None
Top of seat 17"-19" above the floor		None

Grab Bars

	Facility: Assabet	Comment/Transition Notes
On back and side wall closest to toilet		None
1 1/4" diameter		None
1 1/2" clearance to wall		None
Located 30" above and parallel to the floor		None
Acid-etched or roughened surface		None
42" long		None

Fixtures

	Facility: Assabet	Comment/Transition Notes
Toilet paper dispenser is 24" above floor		None
One mirror set a maximum 38" to bottom (if tilted, 42")		None
Dispensers (towel, soap, etc) at least one of each a maximum 42" above the floor		None

FLOORS, DRINKING FOUNTAINS, TELEPHONES

Floors

	Facility: Assabet	Comment/Transition Notes
Non-slip surface		None
Carpeting is high-density, low pile, non-absorbent, stretched taut, securely anchored		None
Corridor width minimum is 3 ft		None
Objects (signs, ceiling lights, fixtures) can only protrude 4" into the path of travel from a height of 27" to 80"		None

Drinking Fountains

	Facility: Assabet	Comment/Transition Notes
Spouts no higher than 36" from floor to outlet		None
Hand operated push button or level controls		None

Spouts located near front with stream of water as parallel to front as possible	None
If recessed, recess a minimum 30" width, and no deeper than depth of fountain	None
If no clear knee space underneath, clear floor space 30" x 48" to allow parallel approach	None

Telephones

	Facility: Assabet	Comment/Transition Notes
Highest operating part a maximum 54" above the floor		None
Access within 12" of phone, 30" high by 30" wide		None
Adjustable volume control on headset so identified		None

SIGNS, SIGNALS, AND SWITCHES

Switches, Controls and Signs

	Facility: Assabet	Comment/Transition Notes
Switches and controls for light, heat, ventilation, windows, fire alarms, thermostats, etc, must be a minimum of 36"		None
Electrical outlets centered no lower than 18" above the floor		None
Warning signals must be visual as well as audible		None

Signs

	Facility: Assabet	Comment/Transition Notes
Mounting height must be 60" to centerline of the sign		None
Within 18" of door jamb or recessed		None
Letters and numbers a t least 1 1/4" high		None
Letters and numbers raised .03"		None
Letters and numbers contrast with the background color		None

SWIMMING POOLS, SHOWER ROOMS & PICNIC FACILITIES

SWIMMING POOLS – accessibility can be via ramp, lifting device, or transfer

	Facility: Assabet	Comment/Transition Notes
Ramp at least 34" wide with a non-slip surface extending into the shallow end, slope not exceeding 1:6 with		None
Lifting device		None
Transfer area 18" above the path of travel and a minimum of 18" wide		None
Unobstructed path of travel not less than 48" wide around pool		None
Non-slip surface		None

SHOWER ROOMS - Showers must accommodate both wheel-in and transfer

	Facility: Assabet	Comment/Transition Notes
Stalls 36" by 60" minimum, with a 36" door opening		None
Floors are pitched to drain the stall at the corner farthest from entrance		None
Floors are non-slip surface		None
Controls operate by a single lever with a pressure balance mixing valve		None
Controls are located on the center wall adjacent to the hinged seat		None
Shower heads attached to a flexible metal hose		None
Shower heads attached to wall mounting adjustable from 42" to 72" above the floor		None
Seat is hinged and padded and at least 16" deep, folds upward, securely attached to side wall, height is 18"		None
Soap trays without handhold features unless they can support 250 pounds		None
2 grab bars are provided, one 30" and one 48" long, or one continuous L shaped bar		None
Grab bars are placed horizontally at 36" above the floor line		None

PICNICKING

	Facility: Assabet	Comment/Transition Notes
A minimum of 5% of the total tables must be accessible with clear space under the table top not less than 30"		Yes
For tables without toe clearance, the knee space under the table must be at least 28" high, 30" wide and 24"		Yes
Top of table no higher than 32" above ground		Yes
Surface of the clear ground space under and around the table must be stable, firm and slip-resistant, and		Yes
Accessible tables, grills and fire rings must have clear ground space of at least 36" around the perimeter		Yes

LOCATION/FACILITY/PROGRAM

Facility: Carney Park

Activity	Equipment	Notes	Comments
Picnic Facilities	Tables & Benches	1 wooden bench	
	Grills	none	
	Trash Cans	1 garbage bag	
	Picnic Shelters	none	
Trails		Single trail leading from parking lot; relatively steep grade, lots of rocks and trees roots throughout the trail under it reaches the dam. The trail over the dam is flat and compacted earth. Past the dam, the trail goes up or down very steeply.	
Swimming Facilities	Pools	None	
	Beaches	None	
Play Areas (tot lots)	All Play Equipment i.e. swings, slides	None	
	Access Routes	None	
Game Areas: *ballfield; *basketball; *tennis	Access Routes	None	
	Equipment	None	
Boat Docks	Access Routes	None	
Fishing Facilities	Access Routes	None	
	Equipment	None	
Programing	Are special programs at your facilities accessible?	None	
Services and Technical Assistance	None		

PARKING

Total Spaces	Required Accessible Spaces	Facility: Carney Park	Comment/Transition Notes
Up to 25	1 space		There are no designated spaces
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		

Specification for Accessible Spaces

	Facility: Carney Park	Comment/Transition Notes
Accessible space located closest to accessible entrance		None
Where spaces cannot be located within 200 ft of accessible entrance, drop-off area is provided within 100 ft.		None
Minimum width of 13 ft includes 8 ft space plus 5 ft access aisle		None
Van space – minimum of 1 van space for every accessible space, 8 ft wide plus 8 ft aisle. Alternative is to make		A van could fit into the parking lot
Sign with international symbol of accessibility at each space or pair of spaces		none
Sign minimum 5 ft, maximum 8 ft to top of sign		none
Surface evenly paved or hard-packed (no cracks)		surface loose gravel; not flat
Surface slope less than 1:20, 5%		yes
Curbside to pathway from parking lot at each space or pair of spaces, if sidewalk (curb) is present		none
Curbside is a minimum width of 3 ft, excluding sloped sides, has sloped sides, all slopes not to exceed 1:12, and		none

RAMPS**Specifications**

	Facility: Carney Park	Comment/Transition Notes
Slope Maximum 1:12		none
Minimum width 4 ft between handrails		none
Handrails on both sides if ramp is longer than 6 ft		none
Handrails at 34" and 19" from ramp surface		none
Handrails extend 12" beyond top and bottom		none
Handgrip oval or round		none
Handgrip smooth surface		none
Handgrip diameter between 1 1/4" and 2"		none
Clearance of 1 1/2" between wall and wall rail		none
Non-slip surface		none
Level platforms (4ft x 4 ft) at every 30 ft, at top, at bottom, at change of direction		none

SITE ACCESS, PATH OF TRAVEL, ENTRANCES**Site Access**

	Facility: Carney Park	Comment/Transition Notes
Accessible path of travel from passenger disembarking area and parking area to accessible entrance		path not accessible; see above
Disembarking area at accessible entrance		no
Surface evenly paved or hard-packed		no
No ponding of water		no; large puddles

Path of Travel

	Facility: Carney Park	Comment/Transition Notes
Path does not require the use of stairs		yes
Path is stable, firm and slip resistant		no
3 ft wide minimum		no
Slope maximum 1:20 (5%) and maximum cross pitch is 2% (1:50).		no
Continuous common surface, no changes in level greater than 1/2 inch		no
Any objects protruding onto the pathway must be detected by a person with a visual disability using a cane		lots of roots and rocks
Objects protruding more than 4" from the wall must be within 27" of the ground, or higher than 80"		no
Curb on the pathway must have curb cuts at drives, parking and drop-offs		none

Entrances

	Facility: Carney Park	Comment/Transition Notes
Primary public entrances accessible to person using wheelchair, must be signed, gotten to independently, and not		None
Level space extending 5 ft. from the door, interior and exterior of entrance doors		None
Minimum 32" clear width opening (i.e. 36" door with standard hinge)		None
At least 18" clear floor area on latch, pull side of door		None
Door handle no higher than 48" and operable with a closed fist		None
Vestibule is 4 ft plus the width of the door swinging into the space		None
Entrance(s) on a level that makes elevators accessible		None
Door mats less than 1/2" thick are securely fastened		None
Door mats more than 1/2" thick are recessed		None
Grates in path of travel have openings of 1/2" maximum		None
Signs at non-accessible entrance(s) indicate direction to accessible entrance		None
Emergency egress – alarms with flashing lights and audible signals, sufficiently lighted		None

STAIRS and DOORS**Stairs**

	Facility: Carney Park	Comment/Transition Notes
No open risers		None
Nosings not projecting		None
Treads no less than 11" wide		None

Handrails on both sides	None
Handrails 34"-38" above tread	None
Handrail extends a minimum of 1 ft beyond top and bottom riser (if no safety hazard and space permits)	None
Handgrip oval or round	None
Handgrip has a smooth surface	None
Handgrip diameter between 1 1/4" and 1 1/2"	None
1 1/2" clearance between wall and handrail	None

Doors	Facility: Carney Park	Comment/Transition Notes
Minimum 32" clear opening		None
At least 18" clear floor space on pull side of door		None
Closing speed minimum 3 seconds to within 3" of the latch		None
Maximum pressure 5 pounds interior doors		None
Threshold maximum 1/2" high, beveled on both sides		None
Hardware operable with a closed fist (no conventional door knobs or thumb latch devices)		None
Hardware minimum 36", maximum 48" above the floor		None
Clear, level floor space extends out 5 ft from both sides of the door		None
Door adjacent to revolving door is accessible and unlocked		None
Doors opening into hazardous area have hardware that is knurled or roughened		None

RESTROOMS – also see Doors and Vestibules

	Facility: Carney Park	Comment/Transition Notes
5 ft turning space measured 12" from the floor		None

At least one Sink:	Facility: Carney Park	Comment/Transition Notes
Clear floor space of 30" by 48" to allow a forward approach		None
Mounted without pedestal or legs, height 34" to top of rim		None
Extends at least 22" from the wall		None
Open knee space a minimum 19" deep, 30" width, and 27" high		None
Cover exposed pipes with insulation		None
Faucets operable with closed fist (lever or spring activated handle)		None

At least one Stall:	Facility: Carney Park	Comment/Transition Notes
Accessible to person using wheelchair at 60" wide by 72" deep		None
Stall door is 36" wide		None
Stall door swings out		None
Stall door is self closing		None
Stall door has a pull latch		None
Lock on stall door is operable with a closed fist, and 32" above the floor		None
Coat hook is 54" high		None

Toilet	Facility: Carney Park	Comment/Transition Notes
18" from center to nearest side wall		None
42" minimum clear space from center to farthest wall or fixture		None
Top of seat 17"-19" above the floor		None

Grab Bars	Facility: Carney Park	Comment/Transition Notes
On back and side wall closest to toilet		None
1 1/4" diameter		None
1 1/2" clearance to wall		None
Located 30" above and parallel to the floor		None
Acid-etched or roughened surface		None
42" long		None

Fixtures	Facility: Carney Park	Comment/Transition Notes
Toilet paper dispenser is 24" above floor		None
One mirror set a maximum 38" to bottom (if tilted, 42")		None
Dispensers (towel, soap, etc) at least one of each a maximum 42" above the floor		None

FLOORS, DRINKING FOUNTAINS, TELEPHONES

Floors	Facility: Carney Park	Comment/Transition Notes
Non-slip surface		None
Carpeting is high-density, low pile, non-absorbent, stretched taut, securely anchored		None

Corridor width minimum is 3 ft	None
Objects (signs, ceiling lights, fixtures) can only protrude 4" into the path of travel from a height of 27" to 80"	None

Drinking Fountains	Facility: Carney Park	Comment/Transition Notes
Spouts no higher than 36" from floor to outlet		None
Hand operated push button or level controls		None
Spouts located near front with stream of water as parallel to front as possible		None
If recessed, recess a minimum 30" width, and no deeper than depth of fountain		None
If no clear knee space underneath, clear floor space 30" x 48" to allow parallel approach		None

Telephones	Facility: Carney Park	Comment/Transition Notes
Highest operating part a maximum 54" above the floor		None
Access within 12" of phone, 30" high by 30" wide		None
Adjustable volume control on headset so identified		None

SIGNS, SIGNALS, AND SWITCHES		
Switches, Controls and Signs	Facility: Carney Park	Comment/Transition Notes
Switches and controls for light, heat, ventilation, windows, fire alarms, thermostats, etc, must be a minimum of 36"		None
Electrical outlets centered no lower than 18" above the floor		None
Warning signals must be visual as well as audible		None

Signs	Facility: Carney Park	Comment/Transition Notes
Mounting height must be 60" to centerline of the sign		None
Within 18" of door jamb or recessed		None
Letters and numbers a t least 1 1/4" high		None
Letters and numbers raised .03"		None
Letters and numbers contrast with the background color		None

SWIMMING POOLS, SHOWER ROOMS & PICNIC FACILITIES		
SWIMMING POOLS – accessibility can be via ramp, lifting device, or transfer	Facility: Carney Park	Comment/Transition Notes
Ramp at least 34" wide with a non-slip surface extending into the shallow end, slope not exceeding 1:6 with		None
Lifting device		None
Transfer area 18" above the path of travel and a minimum of 18" wide		None
Unobstructed path of travel not less than 48" wide around pool		None
Non-slip surface		None

SHOWER ROOMS - Showers must accommodate both wheel-in and transfer	Facility: Carney Park	Comment/Transition Notes
Stalls 36" by 60" minimum, with a 36" door opening		None
Floors are pitched to drain the stall at the corner farthest from entrance		None
Floors are non-slip surface		None
Controls operate by a single lever with a pressure balance mixing valve		None
Controls are located on the center wall adjacent to the hinged seat		None
Shower heads attached to a flexible metal hose		None
Shower heads attached to wall mounting adjustable from 42" to 72" above the floor		None
Seat is hinged and padded and at least 16" deep, folds upward, securely attached to side wall, height is 18"		None
Soap trays without handhold features unless they can support 250 pounds		None
2 grab bars are provided, one 30" and one 48" long, or one continuous L shaped bar		None
Grab bars are placed horizontally at 36" above the floor line		None

PICNICKING	Facility: Carney Park	Comment/Transition Notes
A minimum of 5% of the total tables must be accessible with clear space under the table top not less than 30"		None
For tables without toe clearance, the knee space under the table must be at least 28" high, 30" wide and 24"		None
Top of table no higher than 32" above ground		None
Surface of the clear ground space under and around the table must be stable, firm and slip-resistant, and		None
Accessible tables, grills and fire rings must have clear ground space of at least 36" around the perimeter		None

LOCATION/FACILITY/PROGRAM

Edmund Hill Woods

Activity	Equipment	Notes	Yes/No	Comments
Picnic Facilities	Tables & Benches			N/A
	Grills			
	Trash Cans			
	Picnic Shelters			
Trails		Surface material		Natural earth with many rock and root obstacles
		Dimensions		Width of paths vary
		Rails	No	
		Signage for visually impaired	No	
Swimming Facilities	Pools			N/A
	Beaches			N/A
Play Areas (tot lots)	All Play Equipment i.e. swings, slides			N/A
	Access Routes			
Game Areas: *ballfield; *basketball; *tennis	Access Routes			N/A
	Equipment			
Boat Docks	Access Routes			N/A
Fishing Facilities	Access Routes			N/A
	Equipment			
Programing	Are special programs at your facilities accessible?			N/A
Services and Technical Assistance				

PARKING

Total Spaces

Req. Acc. Spaces

Facility: Edmund Hill **Comment/Transition Notes**

LOCATION/FACILITY/PROGRAM**Edmund Hill Woods**

Activity	Equipment	Notes	Yes/No	Comments
Up to 25	1 space		No	Dirt parking lot with no defined parking spaces
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			

Specification for Accessible Spaces**Facility: Edmund Hill****Comment/Transition Notes**

Accessible space located closest to accessible entrance		No accessible entrance
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)		Dirt paths with rocks and roots obstacles
Surface slope less than 1:20, 5%		N/A
Curbscut to pathway from parking lot at each space or pair of spaces, if sidewalk (curb) is present		N/A
Curbscut 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**Specifications****Facility: Edmund Hill****Comment/Transition Notes**

Slope Maximum 1:12	N/A	N/A
Minimum width 4 ft between handrails		N/A
Handrails on both sides if ramp is longer than 6 ft		N/A
Handrails at 34" and 19" from ramp surface		N/A
Handrails extend 12" beyond top and bottom		N/A
Handgrip oval or round		N/A
Handgrip smooth surface		N/A
Handgrip diameter between 1 ¼" and 2"		N/A
Clearance of 1 ½" between wall and wall rail		N/A
Non-slip surface		N/A

LOCATION/FACILITY/PROGRAM**Edmund Hill Woods**

Activity	Equipment	Notes	Yes/No	Comments
Level platforms (4ft x 4 ft) at every 30 ft, at top, at bottom, at change of direction				N/A

SITE ACCESS, PATH OF TRAVEL, ENTRANCES**Site Access**Facility: **Edmund Hill****Comment/Transition Notes**

Accessible path of travel from passenger disembarking area and parking area to accessible entrance		N/A
Disembarking area at accessible entrance		N/A
Surface evenly paved or hard-packed		Dirt
No ponding of water		N/A

Path of TravelFacility: **Edmund Hill****Comment/Transition Notes**

Path does not require the use of stairs		N/A
Path is stable, firm and slip resistant		No
3 ft wide minimum		No
Slope maximum 1:20 (5%) and maximum cross pitch is 2% (1:50).		No
Continuous common surface, no changes in level greater than 1/2 inch		No
Any objects protruding onto the pathway must be detected by a person with a visual disability using a cane		No
Objects protruding more than 4" from the wall must be within 27" of the ground, or higher than 80"		N/A
Curb on the pathway must have curb cuts at drives, parking and drop-offs		N/A

EntrancesFacility: **Edmund Hill****Comment/Transition Notes**

Primary public entrances accessible to person using wheelchair, must be signed, gotten to independently, and not be the service entrance		N/A
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		

LOCATION/FACILITY/PROGRAM**Edmund Hill Woods**

Activity	Equipment	Notes	Yes/No	Comments
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STAIRS and DOORS**Stairs**Facility: **Edmund Hill**

Comment/Transition Notes

No open risers		N/A
Nosings not projecting		
Treads no less than 11" wide		
Handrails on both sides		
Handrails 34"-38" above tread		
Handrail extends a minimum of 1 ft beyond top and bottom riser (if no safety hazard and space permits)		
Handgrip oval or round		
Handgrip has a smooth surface		
Handgrip diameter between 1 1/4" and 1 1/2"		
1 1/2" clearance between wall and handrail		

DoorsFacility: **Edmund Hill**

Comment/Transition Notes

Minimum 32" clear opening		N/A
At least 18" clear floor space on pull side of door		
Closing speed minimum 3 seconds to within 3" of the latch		
Maximum pressure 5 pounds interior doors		
Threshold maximum 1/2" high, beveled on both sides		
Hardware operable with a closed fist (no conventional door knobs or thumb latch devices)		
Hardware minimum 36", maximum 48" above the floor		
Clear, level floor space extends out 5 ft from both sides of the door		
Door adjacent to revolving door is accessible and unlocked		
Doors opening into hazardous area have hardware that is knurled or roughened		

RESTROOMS – also see Doors and VestibulesFacility: **Edmund Hill**

Comment/Transition Notes

5 ft turning space measured 12" from the floor		No restrooms
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At least one Sink:Facility: **Edmund Hill**

Comment/Transition Notes

Clear floor space of 30" by 48" to allow a forward approach		N/A
Mounted without pedestal or legs, height 34" to top of rim		
Extends at least 22" from the wall		
Open knee space a minimum 19" deep, 30" width, and 27" high		

LOCATION/FACILITY/PROGRAM**Edmund Hill Woods**

Activity	Equipment	Notes	Yes/No	Comments
Cover exposed pipes with insulation				
Faucets operable with closed fist (lever or spring activated handle)				

At least one Stall:Facility: **Edmund Hill**

Comment/Transition Notes

Accessible to person using wheelchair at 60" wide by 72" deep		N/A
Stall door is 36" wide		
Stall door swings out		
Stall door is self closing		
Stall door has a pull latch		
Lock on stall door is operable with a closed fist, and 32" above the floor		
Coat hook is 54" high		

ToiletFacility: **Edmund Hill**

Comment/Transition Notes

18" from center to nearest side wall		N/A
42" minimum clear space from center to farthest wall or fixture		
Top of seat 17"-19" above the floor		

Grab BarsFacility: **Edmund Hill**

Comment/Transition Notes

On back and side wall closest to toilet		N/A
1 1/4" diameter		
1 1/2" clearance to wall		
Located 30" above and parallel to the floor		
Acid-etched or roughened surface		
42" long		

FixturesFacility: **Edmund Hill**

Comment/Transition Notes

Toilet paper dispenser is 24" above floor		N/A
One mirror set a maximum 38" to bottom (if tilted, 42")		
Dispensers (towel, soap, etc) at least one of each a maximum 42" above the floor		

FLOORS, DRINKING FOUNTAINS, TELEPHONES**Floors**Facility: **Edmund Hill**

Comment/Transition Notes

Non-slip surface		N/A
Carpeting is high-density, low pile, non-absorbent, stretched taut, securely anchored		
Corridor width minimum is 3 ft		

LOCATION/FACILITY/PROGRAM**Edmund Hill Woods**

Activity	Equipment	Notes	Yes/No	Comments
Objects (signs, ceiling lights, fixtures) can only protrude 4" into the path of travel from a height of 27" to 80" above the floor				

Drinking FountainsFacility: **Edmund Hill**

Comment/Transition Notes

Spouts no higher than 36" from floor to outlet		N/A
Hand operated push button or level controls		
Spouts located near front with stream of water as parallel to front as possible		
If recessed, recess a minimum 30" width, and no deeper than depth of fountain		
If no clear knee space underneath, clear floor space 30" x 48" to allow parallel approach		

TelephonesFacility: **Edmund Hill**

Comment/Transition Notes

Highest operating part a maximum 54" above the floor		N/A
Access within 12" of phone, 30" high by 30" wide		
Adjustable volume control on headset so identified		

SIGNS, SIGNALS, AND SWITCHES**Switches, Controls and Signs**Facility: **Edmund Hill**

Comment/Transition Notes

Switches and controls for light, heat, ventilation, windows, fire alarms, thermostats, etc, must be a minimum of 36" and a maximum of 48" above the		N/A
Electrical outlets centered no lower than 18" above the floor		
Warning signals must be visual as well as audible		

SignsFacility: **Edmund Hill**

Comment/Transition Notes

Mounting height must be 60" to centerline of the sign		N/A
Within 18" of door jamb or recessed		
Letters and numbers a t least 1 1/4" high		
Letters and numbers raised .03"		
Letters and numbers contrast with the background color		

SWIMMING POOLS, SHOWER ROOMS & PICNIC FACILITIES

SWIMMING POOLS – accessibility can be via ramp, lifting device, or transfer area

Facility: **Edmund Hill**

Comment/Transition Notes

Ramp at least 34" wide with a non-slip surface extending into the shallow end, slope not exceeding 1:6 with handrails on both sides		N/A
Lifting device		
Transfer area 18" above the path of travel and a minimum of 18" wide		
Unobstructed path of travel not less than 48" wide around pool		
Non-slip surface		

LOCATION/FACILITY/PROGRAM**Edmund Hill Woods**

Activity	Equipment	Notes	Yes/No	Comments
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SHOWER ROOMS - Showers must accor**Facility: Edmund Hill****Comment/Transition Notes**

Stalls 36" by 60" minimum, with a 36" door opening		N/A
Floors are pitched to drain the stall at the corner farthest from entrance		
Floors are non-slip surface		
Controls operate by a single lever with a pressure balance mixing valve		
Controls are located on the center wall adjacent to the hinged seat		
Shower heads attached to a flexible metal hose		
Shower heads attached to wall mounting adjustable from 42" to 72" above the floor		
Seat is hinged and padded and at least 16" deep, folds upward, securely attached to side wall, height is 18" to the top of the seat, and at least 24" long		
Soap trays without handhold features unless they can support 250 pounds		
2 grab bars are provided, one 30" and one 48" long, or one continuous L shaped bar		
Grab bars are placed horizontally at 36" above the floor line		

PICNICKING**Facility: Edmund Hill****Comment/Transition Notes**

A minimum of 5% of the total tables must be accessible with clear space under the table top not less than 30" wide and 19" deep per seating space and not less than 27" clear from the ground to the underside of the table. An additional 29" clear space (totaling 48") must extend beyond the 19" clear space under the table to provide access		N/A
For tables without toe clearance, the knee space under the table must be at least 28" high, 30" wide and 24" deep		
Top of table no higher than 32" above ground		
Surface of the clear ground space under and around the table must be stable, firm and slip-resistant, and evenly graded with a maximum slope of 2% in all directions		
Accessible tables, grills and fire rings must have clear ground space of at least 36" around the perimeter		

LOCATION/FACILITY/PROGRAM

Ellsworth McAfee Park

Activity	Equipment	Notes	Yes/No	Comments	
Picnic Facilities	Tables & Benches	Located adjacent to accessible paths	Yes		
		Access to open spaces	Yes		
		Back and arm rests	No		
		Adequate number	Yes		
	Grills				N/A
					N/A
	Trash Cans	Located adjacent to accessible paths	Yes		
Picnic Shelters	Located adjacent to accessible paths	Yes			
	Located near trash can, restroom, parking. On accessible surface.	Yes	Cement pad, port-a-potty. No water.		
Trails		Surface material	Yes	asphalt	
		Dimensions	Yes		
		Rails	No		
		Signage for visually impaired	No		
Swimming Facilities	Pools			N/A	
				N/A	
				N/A	
	Beaches				N/A
					N/A
					N/A
Play Areas (tot lots)	All Play Equipment i.e.	Same experience provided to all	No		
	Access Routes	Located adjacent to accessible paths	Yes		
		Enough space between equipment for wheelchair	Yes		
Game Areas: *ballfield; *basketball; *tennis	Access Routes	Located adjacent to accessible paths	Yes		
		Berm cuts onto courts	yes		
	Equipment	Height	No		
		dimensions	No		
	Spectator seating		N/A		
Boat Docks	Access Routes	Located adjacent to accessible paths		N/A	
		handrails		N/A	
Fishing Facilities	Access Routes	Located adjacent to accessible paths		N/A	
		handrails		N/A	
	Equipment	arm rests		N/A	
		bait shelves		N/A	
		handrails		N/A	
		fish cleaning tables		N/A	
Programing	Are special programs at your facilities				

	accessible?		
Services and Technical Assistance	Information available in alternative formats	No	
	Process to request interpretive services for meetings	No	

PARKING

Total Spaces	Required Acces:	Facility:	Ellsworth McAffee Park	Comment/Transition Notes
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	Yes		Under 200 spaces total, 8 handicap spaces
201-300	7 spaces			
301-400	8 spaces			
401-500	9 spaces			

Specification for Accessible Spaces	Facility:	Ellsworth McAffee Park	Comment/Transition Notes
Accessible space located closest to accessible entrance	Yes		Accessible spaces on either side of accessible entrance to fields and trails/walking paths.
Where spaces cannot be located within 200 ft of accessible entrance, drop-off area is provided within 100 ft.	N/A		
Minimum width of 13 ft includes 8 ft space plus 5 ft access aisle	Yes		
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	Yes		All handicap spaces are atleast 11 feet wide with 5 foot access aisle.
Sign with international symbol of accessibility at each space or pair of spaces	Yes		
Sign minimum 5 ft, maximum 8 ft to top of sign	Yes		
Surface evenly paved or hard-packed (no cracks)	Yes		
Surface slope less than 1:20, 5%	Yes		
Curbcut to pathway from parking lot at each space or pair of spaces, if sidewalk (curb) is present	Yes		same level
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	N/A		No curbs so no need for curb cuts.

RAMPS

Specifications	Facility:	Ellsworth McAffee Park	Comment/Transition Notes
Slope Maximum 1:12	Yes.		Only one ramp needed - the one to enter the gazebo.
Minimum width 4 ft between handrails	N/A		No handrails
Handrails on both sides if ramp is longer than 6 ft	No		No handrails
Handrails at 34" and 19" from ramp surface	N/A		No handrails
Handrails extend 12" beyond top and bottom	N/A		No handrails
Handgrip oval or round	N/A		No handrails
Handgrip smooth surface	N/A		No handrails
Handgrip diameter between 1 1/4" and 2"	N/A		No handrails
Clearance of 1 1/2" between wall and wall rail	N/A		
Non-slip surface	Yes		Asphalt
Level platforms (4ft x 4 ft) at every 30 ft, at top, at bottom, at change of direction	Yes		

SITE ACCESS, PATH OF TRAVEL, ENTRANCES

Site Access	Facility:	Ellsworth McAffee Park	Comment/Transition Notes
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Accessible path of travel from passenger disembarking area and parking area to accessible entrance	Yes	
Disembarking area at accessible entrance		
Surface evenly paved or hard-packed	Yes	
No ponding of water	Yes	

Path of Travel	Facility: Ellsworth McAffee Park	Comment/Transition Notes
Path does not require the use of stairs	Yes	
Path is stable, firm and slip resistant	Yes	
3 ft wide minimum	Yes	
Slope maximum 1:20 (5%) and maximum cross pitch is 2% (1:50).	Yes	
Continuous common surface, no changes in level greater than 1/2 inch	yes	
Any objects protruding onto the pathway must be detected by a person with a visual disability using a cane	Yes	No protrusions
Objects protruding more than 4" from the wall must be within 27" of the ground, or higher than 80"	N/A	No protrusions
Curb on the pathway must have curb cuts at drives, parking and drop-offs	N/A	No curbs - even surface

Entrances	Facility: Ellsworth McAffee Park	Comment/Transition Notes
Primary public entrances accessible to person using wheelchair, must be signed, gotten to independently, and not be the service entrance	N/A	
Level space extending 5 ft. from the door, interior and exterior of entrance doors	N/A	
Minimum 32" clear width opening (i.e. 36" door with standard hinge)	N/A	
At least 18" clear floor area on latch, pull side of door	N/A	
Door handle no higher than 48" and operable with a closed fist	N/A	
Vestibule is 4 ft plus the width of the door swinging into the space	N/A	
Entrance(s) on a level that makes elevators accessible	N/A	
Door mats less than 1/2" thick are securely fastened	N/A	
Door mats more than 1/2" thick are recessed	N/A	
Grates in path of travel have openings of 1/2" maximum	N/A	
Signs at non-accessible entrance(s) indicate direction to accessible entrance	N/A	
Emergency egress – alarms with flashing lights and audible signals, sufficiently lighted	N/A	

STAIRS and DOORS

Stairs	Facility: Ellsworth McAffee Park	Comment/Transition Notes
No open risers	N/A	No Stairs
Nosings not projecting	N/A	No Stairs
Treads no less than 11" wide	N/A	No Stairs
Handrails on both sides	N/A	No Stairs
Handrails 34"-38" above tread	N/A	No Stairs
Handrail extends a minimum of 1 ft beyond top and bottom riser (if no safety hazard and space permits)	N/A	No Stairs
Handgrip oval or round	N/A	No Stairs
Handgrip has a smooth surface	N/A	No Stairs
Handgrip diameter between 1 1/4" and 1 1/2"	N/A	No Stairs
1 1/2" clearance between wall and handrail	N/A	No Stairs

Doors	Facility:	Ellsworth McAfee Park	Comment/Transition Notes
Minimum 32" clear opening	Yes		The only door is to the handicap port-a-potty.
At least 18" clear floor space on pull side of door	Yes		The only door is to the handicap port-a-potty.
Closing speed minimum 3 seconds to within 3" of the latch	Yes		The only door is to the handicap port-a-potty.
Maximum pressure 5 pounds interior doors	Yes		The only door is to the handicap port-a-potty.
Threshold maximum 1/2" high, beveled on both sides	Yes		The only door is to the handicap port-a-potty.
Hardware operable with a closed fist (no conventional door knobs or thumb latch devices)	Yes		The only door is to the handicap port-a-potty.
Hardware minimum 36", maximum 48" above the floor	Yes		The only door is to the handicap port-a-potty.
Clear, level floor space extends out 5 ft from both sides of the door	Yes		The only door is to the handicap port-a-potty.
Door adjacent to revolving door is accessible and unlocked	N/a		
Doors opening into hazardous area have hardware that is knurled or roughened	N/A		

RESTROOMS – also see Doors and Vestibules

	Facility:	Ellsworth McAfee Park	Comment/Transition Notes
5 ft turning space measured 12" from the floor	Yes		Handicap accessible port-a-potty

At least one Sink: No sink	Facility:	Ellsworth McAfee Park	Comment/Transition Notes
Clear floor space of 30" by 48" to allow a forward approach	N/A		No sink.
Mounted without pedestal or legs, height 34" to top of rim	N/A		No sink.
Extends at least 22" from the wall	N/A		No sink.
Open knee space a minimum 19" deep, 30" width, and 27" high	N/A		No sink.
Cover exposed pipes with insulation	N/A		No sink.
Faucets operable with closed fist (lever or spring activated handle)	N/A		No sink.

At least one Stall: Yes, one handicap port-a-potty out of two total.	Facility:	Ellsworth McAfee Park	Comment/Transition Notes
Accessible to person using wheelchair at 60" wide by 72" deep	Yes		
Stall door is 36" wide	Yes		
Stall door swings out	Yes		
Stall door is self closing	Yes		
Stall door has a pull latch	Yes		
Lock on stall door is operable with a closed fist, and 32" above the floor	Yes		
Coat hook is 54" high	N/A		No coat hook

Toilet	Facility:	Ellsworth McAfee Park	Comment/Transition Notes
18" from center to nearest side wall	Yes		
42" minimum clear space from center to farthest wall or fixture	Yes		
Top of seat 17"-19" above the floor	Yes		

Grab Bars	Facility:	Ellsworth McAfee Park	Comment/Transition Notes
On back and side wall closest to toilet	Yes		In handicap port a potty
1 1/4" diameter	Yes		In handicap port a potty
1 1/2" clearance to wall	Yes		In handicap port a potty
Located 30" above and parallel to the floor	Yes		In handicap port a potty

Acid-etched or roughened surface	Yes	In handicap port a potty
42" long	Yes	In handicap port a potty

Fixtures	Facility:	Ellsworth McAfee Park	Comment/Transition Notes
Toilet paper dispenser is 24" above floor	Yes		
One mirror set a maximum 38" to bottom (if tilted, 42")	Yes		
Dispensers (towel, soap, etc) at least one of each a maximum 42" above the floor	Yes		Just hand sanitizer.

FLOORS, DRINKING FOUNTAINS, TELEPHONES

Floors	Facility:	Ellsworth McAfee Park	Comment/Transition Notes
Non-slip surface	Yes		Only floors are within gazebo and picnic area.
Carpeting is high-density, low pile, non-absorbent, stretched taut, securely anchored	N/A		
Corridor width minimum is 3 ft	N/A		
Objects (signs, ceiling lights, fixtures) can only protrude 4" into the path of travel from a height of 27" to 80" above the floor	N/A		

Drinking Fountains	Facility:	Ellsworth McAfee Park	Comment/Transition Notes
Spouts no higher than 36" from floor to outlet	N/A		
Hand operated push button or level controls	N/A		
Spouts located near front with stream of water as parallel to front as possible	N/A		
If recessed, recess a minimum 30" width, and no deeper than depth of fountain	N/A		
If no clear knee space underneath, clear floor space 30" x 48" to allow parallel approach	N/A		

Telephones	Facility:	Ellsworth McAfee Park	Comment/Transition Notes
Highest operating part a maximum 54" above the floor	N/A		
Access within 12" of phone, 30" high by 30" wide	N/A		
Adjustable volume control on headset so identified	N/A		

SIGNS, SIGNALS, AND SWITCHES

Switches, Controls and Signs	Facility:	Ellsworth McAfee Park	Comment/Transition Notes
Switches and controls for light, heat, ventilation, windows, fire alarms, thermostats, etc, must be a minimum of 36" and a maximum of 48" above the	N/A		
Electrical outlets centered no lower than 18" above the floor	N/A		
Warning signals must be visual as well as audible	N/A		

Signs	Facility:	Ellsworth McAfee Park	Comment/Transition Notes
Mounting height must be 60" to centerline of the sign			
Within 18" of door jamb or recessed	N/A		
Letters and numbers a t least 1 1/4" high			
Letters and numbers raised .03"			
Letters and numbers contrast with the background color	Yes		

SWIMMING POOLS, SHOWER ROOMS & PICNIC FACILITIES

SWIMMING POOLS – accessibility can be via	Facility:	Ellsworth McAfee Park	Comment/Transition Notes
Ramp at least 34" wide with a non-slip surface extending into the shallow end, slope not exceeding 1:6 with handrails on both sides	N/A		

Lifting device	N/A	
Transfer area 18" above the path of travel and a minimum of 18" wide	N/A	
Unobstructed path of travel not less than 48" wide around pool	N/A	
Non-slip surface	N/A	

SHOWER ROOMS - Showers must accommo	Facility:	Ellsworth McAffee Park	Comment/Transition Notes
Stalls 36" by 60" minimum, with a 36" door opening	N/A		
Floors are pitched to drain the stall at the corner farthest from entrance	N/A		
Floors are non-slip surface	N/A		
Controls operate by a single lever with a pressure balance mixing valve	N/A		
Controls are located on the center wall adjacent to the hinged seat	N/A		
Shower heads attached to a flexible metal hose	N/A		
Shower heads attached to wall mounting adjustable from 42" to 72" above the floor	N/A		
Seat is hinged and padded and at least 16" deep, folds upward, securely attached to side wall, height is 18" to the top of the seat, and at least 24"	N/A		
Soap trays without handhold features unless they can support 250 pounds	N/A		
2 grab bars are provided, one 30" and one 48" long, or one continuous L shaped bar	N/A		
Grab bars are placed horizontally at 36" above the floor line	N/A		

PICNICKING	Facility:	Ellsworth McAffee Park	Comment/Transition Notes
A minimum of 5% of the total tables must be accessible with clear space under the table top not less than 30" wide and 19" deep per seating space and not	Yes		2 out of 10 picnic tables have accessible seating
For tables without toe clearance, the knee space under the table must be at least 28" high, 30" wide and 24" deep	Yes		
Top of table no higher than 32" above ground	Yes		approx. 32 in.
Surface of the clear ground space under and around the table must be stable, firm and slip-resistant, and evenly graded with a maximum slope of 2% in all	Yes		cement
Accessible tables, grills and fire rings must have clear ground space of at least 36" around the perimeter	Yes		Tables are moveable, no grills or fire rings.

LOCATION/FACILITY/PROGRAM

Green Street

Activity	Equipment	Notes	Yes/No	Comments
Picnic Facilities	Tables & Benches			N/A
	Grills			
	Trash Cans			
	Picnic Shelters			
Trails		Surface material		Natural earth with many rock and root obstacles
		Dimensions		Width of path varies
		Rails	No	
		Signage for visually impaired	No	
Swimming Facilities	Pools			N/A
	Beaches			N/A
Play Areas (tot lots)	All Play Equipment i.e. swings, slides			N/A
	Access Routes			
Game Areas: *ballfield; *basketball; *tennis	Access Routes			N/A
	Equipment			
Boat Docks	Access Routes			N/A
Fishing Facilities	Access Routes			N/A
	Equipment			
Programing	Are special programs at your facilities accessible?			N/A
Services and Technical Assistance				

PARKING

Total Spaces	Req. Acc. Spaces	Facility: Green Street	Comment/Transition Notes
Up to 25	1 space	No	Dirt parking lot with no defined parking spaces
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		

Specification for Accessible Spaces

Facility: **Green Street**

Comment/Transition Notes

Accessible space located closest to accessible entrance		No accessible entrance
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)		Dirt path with rock and root obstacles
Surface slope less than 1:20, 5%		N/A
Curbscut to pathway from parking lot at each space or pair of spaces, if sidewalk (curb) is present		N/A
Curbscut 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

Specifications

Facility: **Green Street**

Comment/Transition Notes

Slope Maximum 1:12	N/A	N/A
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 1¼" and 2"		
Clearance of 1½" 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		

SITE ACCESS, PATH OF TRAVEL, ENTRANCES

Site Access

Facility: **Green Street**

Comment/Transition Notes

Accessible path of travel from passenger disembarking area and parking area to accessible entrance		N/A
Disembarking area at accessible entrance		N/A
Surface evenly paved or hard-packed		Dirt

No ponding of water		N/A
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Path of Travel Facility: **Green Street** Comment/Transition Notes

Path does not require the use of stairs		N/A
Path is stable, firm and slip resistant		No
3 ft wide minimum		No
Slope maximum 1:20 (5%) and maximum cross pitch is 2% (1:50).		No
Continuous common surface, no changes in level greater than 1/2 inch		No
Any objects protruding onto the pathway must be detected by a person with a visual disability using a cane		No
Objects protruding more than 4" from the wall must be within 27" of the ground, or higher than 80"		N/A
Curb on the pathway must have curb cuts at drives, parking and drop-offs		N/A

Entrances Facility: **Green Street** Comment/Transition Notes

Primary public entrances accessible to person using wheelchair, must be signed, gotten to independently, and not be the service entrance		N/A
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		

STAIRS and DOORS

Stairs Facility: **Green Street** Comment/Transition Notes

No open risers		N/A
Nosings not projecting		
Treads no less than 11" wide		
Handrails on both sides		
Handrails 34"-38" above tread		
Handrail extends a minimum of 1 ft beyond top and bottom riser (if no safety hazard and space permits)		
Handgrip oval or round		
Handgrip has a smooth surface		
Handgrip diameter between 1 1/4" and 1 1/2"		

1 1/2" clearance between wall and handrail		
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Doors Facility: **Green Street** Comment/Transition Notes

Minimum 32" clear opening		N/A
At least 18" clear floor space on pull side of door		
Closing speed minimum 3 seconds to within 3" of the latch		
Maximum pressure 5 pounds interior doors		
Threshold maximum 1/2" high, beveled on both sides		
Hardware operable with a closed fist (no conventional door knobs or thumb latch devices)		
Hardware minimum 36", maximum 48" above the floor		
Clear, level floor space extends out 5 ft from both sides of the door		
Door adjacent to revolving door is accessible and unlocked		
Doors opening into hazardous area have hardware that is knurled or roughened		

RESTROOMS – also see Doors and Vestibules

Facility: **Green Street** Comment/Transition Notes

5 ft turning space measured 12" from the floor		No restrooms
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At least one Sink: Facility: **Green Street** Comment/Transition Notes

Clear floor space of 30" by 48" to allow a forward approach		N/A
Mounted without pedestal or legs, height 34" to top of rim		
Extends at least 22" from the wall		
Open knee space a minimum 19" deep, 30" width, and 27" high		
Cover exposed pipes with insulation		
Faucets operable with closed fist (lever or spring activated handle)		

At least one Stall: Facility: **Green Street** Comment/Transition Notes

Accessible to person using wheelchair at 60" wide by 72" deep		N/A
Stall door is 36" wide		
Stall door swings out		
Stall door is self closing		
Stall door has a pull latch		
Lock on stall door is operable with a closed fist, and 32" above the floor		
Coat hook is 54" high		

Toilet Facility: **Green Street** Comment/Transition Notes

18" from center to nearest side wall		N/A
42" minimum clear space from center to farthest wall or fixture		
Top of seat 17"-19" above the floor		

Grab Bars Facility: **Green Street** Comment/Transition Notes

On back and side wall closest to toilet		N/A
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1 1/4" diameter		
1 1/2" clearance to wall		
Located 30" above and parallel to the floor		
Acid-etched or roughened surface		
42" long		

Fixtures Facility: **Green Street** Comment/Transition Notes

Toilet paper dispenser is 24" above floor		N/A
One mirror set a maximum 38" to bottom (if tilted, 42")		
Dispensers (towel, soap, etc) at least one of each a maximum 42" above the floor		

FLOORS, DRINKING FOUNTAINS, TELEPHONES

Floors Facility: **Green Street** Comment/Transition Notes

Non-slip surface		N/A
Carpeting is high-density, low pile, non-absorbent, stretched taut, securely anchored		
Corridor width minimum is 3 ft		
Objects (signs, ceiling lights, fixtures) can only protrude 4" into the path of travel from a height of 27" to 80" above the floor		

Drinking Fountains Facility: **Green Street** Comment/Transition Notes

Spouts no higher than 36" from floor to outlet		N/A
Hand operated push button or level controls		
Spouts located near front with stream of water as parallel to front as possible		
If recessed, recess a minimum 30" width, and no deeper than depth of fountain		
If no clear knee space underneath, clear floor space 30" x 48" to allow parallel approach		

Telephones Facility: **Green Street** Comment/Transition Notes

Highest operating part a maximum 54" above the floor		N/A
Access within 12" of phone, 30" high by 30" wide		
Adjustable volume control on headset so identified		

SIGNS, SIGNALS, AND SWITCHES

Switches, Controls and Signs Facility: **Green Street** Comment/Transition Notes

Switches and controls for light, heat, ventilation, windows, fire alarms, thermostats, etc, must be a minimum of 36" and a maximum of 48" above the		N/A
Electrical outlets centered no lower than 18" above the floor		
Warning signals must be visual as well as audible		

Signs Facility: **Green Street** Comment/Transition Notes

Mounting height must be 60" to centerline of the sign		N/A
Within 18" of door jamb or recessed		
Letters and numbers a t least 1 1/4" high		
Letters and numbers raised .03"		

Letters and numbers contrast with the background color		
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SWIMMING POOLS, SHOWER ROOMS & PICNIC FACILITIES

SWIMMING POOLS – accessibility can

be via ramp, lifting device, or transfer

area	Facility: Green Street	Comment/Transition Notes
Ramp at least 34" wide with a non-slip surface extending into the shallow end, slope not exceeding 1:6 with handrails on both sides		N/A
Lifting device		
Transfer area 18" above the path of travel and a minimum of 18" wide		
Unobstructed path of travel not less than 48" wide around pool		
Non-slip surface		

SHOWER ROOMS- Showers must accor

Facility: Green Street

Comment/Transition Notes

Stalls 36" by 60" minimum, with a 36" door opening		N/A
Floors are pitched to drain the stall at the corner farthest from entrance		
Floors are non-slip surface		
Controls operate by a single lever with a pressure balance mixing valve		
Controls are located on the center wall adjacent to the hinged seat		
Shower heads attached to a flexible metal hose		
Shower heads attached to wall mounting adjustable from 42" to 72" above the floor		
Seat is hinged and padded and at least 16" deep, folds upward, securely attached to side wall, height is 18" to the top of the seat, and at least 24" long		
Soap trays without handhold features unless they can support 250 pounds		
2 grab bars are provided, one 30" and one 48" long, or one continuous L shaped bar		
Grab bars are placed horizontally at 36" above the floor line		

PICNICKING

Facility: Green Street

Comment/Transition Notes

A minimum of 5% of the total tables must be accessible with clear space under the table top not less than 30" wide and 19" deep per seating space and not less than 27" clear from the ground to the underside of the table. An additional 29" clear space (totaling 48") must extend beyond the 19" clear space under the table to provide access		N/A
For tables without toe clearance, the knee space under the table must be at least 28" high, 30" wide and 24" deep		
Top of table no higher than 32" above ground		
Surface of the clear ground space under and around the table must be stable, firm and slip-resistant, and evenly graded with a maximum slope of 2% in all directions		
Accessible tables, grills and fire rings must have clear ground space of at least 36" around the perimeter		

LOCATION/FACILITY/PROGRAM

Facility

Activity	Equipment	Notes	Meadowbrook Rd Trailhead	Comments
Picnic Facilities	Tables & Benches			None
	Grills			None
	Trash Cans			None
	Picnic Shelters			None
Trails		Trail head at the end of the road to access Meadowbrook and Pine Tree Trails on Edmund Hill.		Narrow, not easily accessible.
Swimming Facilities	Pools			None
	Beaches			None
Play Areas (tot lots)	All Play Equipment i.e.			None
	Access Routes			
Game Areas: *ballfield; *basketball; *tennis	Access Routes			None
	Equipment			
Boat Docks	Access Routes			None
Fishing Facilities	Access Routes			None
	Equipment			
Programing	Are special programs at your facilities accessible?			None
Services and Technical Assistance				None

PARKING

Total Spaces	Required Access	Facility:	Meadowbrook Rd Trailhead	Comment/Transition Notes
Up to 25	1 space			No parking spaces. Parking is within public right-of-way
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		

Specification for Accessible Spaces	Facility: Meadowbrook Rd Trailhead	Comment/Transition Notes
Accessible space located closest to accessible entrance		None
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%		
Curbside to pathway from parking lot at each space or pair of spaces, if sidewalk (curb) is present		
Curbside 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

Specifications	Facility: Meadowbrook Rd Trailhead	Comment/Transition Notes
Slope Maximum 1:12		None
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 1¼" and 2"		
Clearance of 1½" 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		

SITE ACCESS, PATH OF TRAVEL, ENTRANCES

Site Access	Facility: Meadowbrook Rd Trailhead	Comment/Transition Notes
Accessible path of travel from passenger disembarking area and parking area to accessible entrance		None
Disembarking area at accessible entrance		
Surface evenly paved or hard-packed		
No ponding of water		

Path of Travel	Facility: Meadowbrook Rd Trailhead	Comment/Transition Notes
Path does not require the use of stairs		No path.
Path is stable, firm and slip resistant		
3 ft wide minimum		
Slope maximum 1:20 (5%) and maximum cross pitch is 2% (1:50).		
Continuous common surface, no changes in level greater than ½ inch		
Any objects protruding onto the pathway must be detected by a person with a visual disability using a cane		

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	Facility: Meadowbrook Rd Trailhead	Comment/Transition Notes
Primary public entrances accessible to person using wheelchair, must be signed, gotten to independently, and not be the service entrance		Not accessible by wheelchair.
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		

STAIRS and DOORS

Stairs	Facility: Meadowbrook Rd Trailhead	Comment/Transition Notes
No open risers		None.
Nosings not projecting		
Treads no less than 11" wide		
Handrails on both sides		
Handrails 34"-38" above tread		
Handrail extends a minimum of 1 ft beyond top and bottom riser (if no safety hazard and space permits)		
Handgrip oval or round		
Handgrip has a smooth surface		
Handgrip diameter between 1 1/4" and 1 1/2"		
1 1/2" clearance between wall and handrail		

Doors	Facility: Meadowbrook Rd Trailhead	Comment/Transition Notes
Minimum 32" clear opening		No doors
At least 18" clear floor space on pull side of door		
Closing speed minimum 3 seconds to within 3" of the latch		
Maximum pressure 5 pounds interior doors		
Threshold maximum 1/2" high, beveled on both sides		
Hardware operable with a closed fist (no conventional door knobs or thumb latch devices)		
Hardware minimum 36", maximum 48" above the floor		
Clear, level floor space extends out 5 ft from both sides of the door		
Door adjacent to revolving door is accessible and unlocked		
Doors opening into hazardous area have hardware that is knurled or roughened		

RESTROOMS – also see Doors and Vestibules

	Facility: Meadowbrook Rd Trailhead	Comment/Transition Notes
5 ft turning space measured 12" from the floor		No restrooms

At least one Sink:	Facility: Meadowbrook Rd Trailhead	Comment/Transition Notes

Clear floor space of 30" by 48" to allow a forward approach		None.
Mounted without pedestal or legs, height 34" to top of rim		
Extends at least 22" from the wall		
Open knee space a minimum 19" deep, 30" width, and 27" high		
Cover exposed pipes with insulation		
Faucets operable with closed fist (lever or spring activated handle)		

	Facility: Meadowbrook Rd Trailhead	Comment/Transition Notes
At least one Stall:		
Accessible to person using wheelchair at 60" wide by 72" deep		None.
Stall door is 36" wide		
Stall door swings out		
Stall door is self closing		
Stall door has a pull latch		
Lock on stall door is operable with a closed fist, and 32" above the floor		
Coat hook is 54" high		

	Facility: Meadowbrook Rd Trailhead	Comment/Transition Notes
Toilet		
18" from center to nearest side wall		None.
42" minimum clear space from center to farthest wall or fixture		
Top of seat 17"-19" above the floor		

	Facility: Meadowbrook Rd Trailhead	Comment/Transition Notes
Grab Bars		
On back and side wall closest to toilet		None.
1 1/4" diameter		
1 1/2" clearance to wall		
Located 30" above and parallel to the floor		
Acid-etched or roughened surface		
42" long		

	Facility: Meadowbrook Rd Trailhead	Comment/Transition Notes
Fixtures		
Toilet paper dispenser is 24" above floor		None.
One mirror set a maximum 38" to bottom (if tilted, 42")		
Dispensers (towel, soap, etc) at least one of each a maximum 42" above the floor		

FLOORS, DRINKING FOUNTAINS, TELEPHONES

	Facility: Meadowbrook Rd Trailhead	Comment/Transition Notes
Floors		
Non-slip surface		None.
Carpeting is high-density, low pile, non-absorbent, stretched taut, securely anchored		
Corridor width minimum is 3 ft		
Objects (signs, ceiling lights, fixtures) can only protrude 4" into the path of travel from a height of 27" to 80" above the floor		

	Facility: Meadowbrook Rd Trailhead	Comment/Transition Notes
Drinking Fountains		
Spouts no higher than 36" from floor to outlet		None.
Hand operated push button or level controls		
Spouts located near front with stream of water as parallel to front as possible		
If recessed, recess a minimum 30" width, and no deeper than depth of fountain		
If no clear knee space underneath, clear floor space 30" x 48" to allow parallel approach		

Telephones	Facility: Meadowbrook Rd Trailhead	Comment/Transition Notes
Highest operating part a maximum 54" above the floor		None.
Access within 12" of phone, 30" high by 30" wide		
Adjustable volume control on headset so identified		

SIGNS, SIGNALS, AND SWITCHES

Switches, Controls and Signs	Facility: Meadowbrook Rd Trailhead	Comment/Transition Notes
Switches and controls for light, heat, ventilation, windows, fire alarms, thermostats, etc, must be a minimum of 36" and a maximum of 48" above the		None.
Electrical outlets centered no lower than 18" above the floor		
Warning signals must be visual as well as audible		

Signs	Facility: Meadowbrook Rd Trailhead	Comment/Transition Notes
Mounting height must be 60" to centerline of the sign		1 sign at entrance to trail at least 60" high.
Within 18" of door jamb or recessed		
Letters and numbers a t least 1¼" high		
Letters and numbers raised .03"		
Letters and numbers contrast with the background color		

SWIMMING POOLS, SHOWER ROOMS & PICNIC FACILITIES

SWIMMING POOLS – accessibility can be via	Facility: Meadowbrook Rd Trailhead	Comment/Transition Notes
Ramp at least 34" wide with a non-slip surface extending into the shallow end, slope not exceeding 1:6 with handrails on both sides		None.
Lifting device		
Transfer area 18" above the path of travel and a minimum of 18" wide		
Unobstructed path of travel not less than 48" wide around pool		
Non-slip surface		

SHOWER ROOMS - Showers must accomod	Facility: Meadowbrook Rd Trailhead	Comment/Transition Notes
Stalls 36" by 60" minimum, with a 36" door opening		None.
Floors are pitched to drain the stall at the corner farthest from entrance		
Floors are non-slip surface		
Controls operate by a single lever with a pressure balance mixing valve		
Controls are located on the center wall adjacent to the hinged seat		
Shower heads attached to a flexible metal hose		
Shower heads attached to wall mounting adjustable from 42" to 72" above the floor		
Seat is hinged and padded and at least 16" deep, folds upward, securely attached to side wall, height is 18" to the top of the seat, and at least 24" long		
Soap trays without handhold features unless they can support 250 pounds		
2 grab bars are provided, one 30" and one 48" long, or one continuous L shaped bar		
Grab bars are placed horizontally at 36" above the floor line		

PICNICKING	Facility: Meadowbrook Rd Trailhead	Comment/Transition Notes
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<p>A minimum of 5% of the total tables must be accessible with clear space under the table top not less than 30" wide and 19" deep per seating space and not less than 27" clear from the ground to the underside of the table. An additional 29" clear space (totaling 48") must extend beyond the 19" clear space under the table to provide access</p>		None.
<p>For tables without toe clearance, the knee space under the table must be at least 28" high, 30" wide and 24" deep</p>		
<p>Top of table no higher than 32" above ground</p>		
<p>Surface of the clear ground space under and around the table must be stable, firm and slip-resistant, and evenly graded with a maximum slope of 2% in all directions</p>		
<p>Accessible tables, grills and fire rings must have clear ground space of at least 36" around the perimeter</p>		

LOCATION/FACILITY/PROGRAM

Facility: Memorial Casey

Activity	Equipment	Notes	Comments
Picnic Facilities	Tables & Benches	Picnic tables - 2 handicapped	Yes
	Grills	none	
	Trash Cans	Yes	
	Picnic Shelters		None
Trails			None
Swimming Facilities	Pools	None	
	Beaches	None	
Play Areas (tot lots)	All Play Equipment i.e. swings, slides	None	
	Access Routes	None	
Game Areas: *ballfield; *basketball; *tennis	Access Routes	Yes	
	Equipment	Spectator Seating	
Boat Docks	Access Routes	None	
Fishing Facilities	Access Routes	None	
	Equipment	None	
Programing	Are special programs at your facilities accessible?	None	
Services and Technical Assistance	None		

PARKING

Total Spaces	Required Accessible Spaces	Facility: Memorial Casey	Comment/Transition Notes
Up to 25	1 space		
26-50	2 spaces		
51-75	3 spaces		
76-100	4 spaces		
101-150	5 spaces	113 with 2 accessible	No
151-200	6 spaces		
201-300	7 spaces		
301-400	8 spaces		
401-500	9 spaces		

Specification for Accessible Spaces

Facility: Memorial Casey

Comment/Transition Notes

Accessible space located closest to accessible entrance	Yes
Where spaces cannot be located within 200 ft of accessible entrance, drop-off area is provided within 100 ft.	Yes
Minimum width of 13 ft includes 8 ft space plus 5 ft access aisle	Yes
Van space – minimum of 1 van space for every accessible space, 8 ft wide plus 8 ft aisle. Alternative is to make	Yes
Sign with international symbol of accessibility at each space or pair of spaces	Yes
Sign minimum 5 ft, maximum 8 ft to top of sign	No

Surface evenly paved or hard-packed (no cracks)	Yes
Surface slope less than 1:20, 5%	Yes
Curbside to pathway from parking lot at each space or pair of spaces, if sidewalk (curb) is present	Yes
Curbside is a minimum width of 3 ft, excluding sloped sides, has sloped sides, all slopes not to exceed 1:12, and	Yes

RAMPS

Specifications	Facility: Memorial Casey	Comment/Transition Notes
Slope Maximum 1:12		None
Minimum width 4 ft between handrails		none
Handrails on both sides if ramp is longer than 6 ft		none
Handrails at 34" and 19" from ramp surface		none
Handrails extend 12" beyond top and bottom		none
Handgrip oval or round		none
Handgrip smooth surface		none
Handgrip diameter between 1 1/4" and 2"		none
Clearance of 1 1/2" between wall and wall rail		none
Non-slip surface		none
Level platforms (4ft x 4 ft) at every 30 ft, at top, at bottom, at change of direction		none

SITE ACCESS, PATH OF TRAVEL, ENTRANCES

Site Access	Facility: Memorial Casey	Comment/Transition Notes
Accessible path of travel from passenger disembarking area and parking area to accessible entrance		Yes
Disembarking area at accessible entrance		Yes
Surface evenly paved or hard-packed		Yes
No ponding of water		Yes

Path of Travel	Facility: Memorial Casey	Comment/Transition Notes
Path does not require the use of stairs		Yes
Path is stable, firm and slip resistant		Yes
3 ft wide minimum		Yes
Slope maximum 1:20 (5%) and maximum cross pitch is 2% (1:50).		Yes
Continuous common surface, no changes in level greater than 1/2 inch		Yes
Any objects protruding onto the pathway must be detected by a person with a visual disability using a cane		none
Objects protruding more than 4" from the wall must be within 27" of the ground, or higher than 80"		none
Curb on the pathway must have curb cuts at drives, parking and drop-offs		Yes

Entrances	Facility: Memorial Casey	Comment/Transition Notes
Primary public entrances accessible to person using wheelchair, must be signed, gotten to independently, and not		None
Level space extending 5 ft. from the door, interior and exterior of entrance doors		None
Minimum 32" clear width opening (i.e. 36" door with standard hinge)		None
At least 18" clear floor area on latch, pull side of door		None
Door handle no higher than 48" and operable with a closed fist		None
Vestibule is 4 ft plus the width of the door swinging into the space		None
Entrance(s) on a level that makes elevators accessible		None
Door mats less than 1/2" thick are securely fastened		None
Door mats more than 1/2" thick are recessed		None
Grates in path of travel have openings of 1/2" maximum		None
Signs at non-accessible entrance(s) indicate direction to accessible entrance		None
Emergency egress – alarms with flashing lights and audible signals, sufficiently lighted		None

STAIRS and DOORS

Stairs	Facility: Memorial Casey	Comment/Transition Notes
No open risers		None
Nosings not projecting		None
Treads no less than 11" wide		None
Handrails on both sides		None
Handrails 34"-38" above tread		None
Handrail extends a minimum of 1 ft beyond top and bottom riser (if no safety hazard and space permits)		None
Handgrip oval or round		None
Handgrip has a smooth surface		None
Handgrip diameter between 1 1/4" and 1 1/2"		None
1 1/2" clearance between wall and handrail		None

Doors

	Facility: Memorial Casey	Comment/Transition Notes
Minimum 32" clear opening		None
At least 18" clear floor space on pull side of door		None
Closing speed minimum 3 seconds to within 3" of the latch		None
Maximum pressure 5 pounds interior doors		None
Threshold maximum 1/2" high, beveled on both sides		None
Hardware operable with a closed fist (no conventional door knobs or thumb latch devices)		None
Hardware minimum 36", maximum 48" above the floor		None
Clear, level floor space extends out 5 ft from both sides of the door		None
Door adjacent to revolving door is accessible and unlocked		None
Doors opening into hazardous area have hardware that is knurled or roughened		None

RESTROOMS – also see Doors and Vestibules

	Facility: Memorial Casey	Comment/Transition Notes
5 ft turning space measured 12" from the floor		None

At least one Sink:

	Facility: Memorial Casey	Comment/Transition Notes
Clear floor space of 30" by 48" to allow a forward approach		None
Mounted without pedestal or legs, height 34" to top of rim		None
Extends at least 22" from the wall		None
Open knee space a minimum 19" deep, 30" width, and 27" high		None
Cover exposed pipes with insulation		None
Faucets operable with closed fist (lever or spring activated handle)		None

At least one Stall:

	Facility: Memorial Casey	Comment/Transition Notes
Accessible to person using wheelchair at 60" wide by 72" deep		None
Stall door is 36" wide		None
Stall door swings out		None
Stall door is self closing		None
Stall door has a pull latch		None
Lock on stall door is operable with a closed fist, and 32" above the floor		None
Coat hook is 54" high		None

Toilet

	Facility: Memorial Casey	Comment/Transition Notes
18" from center to nearest side wall		None
42" minimum clear space from center to farthest wall or fixture		None
Top of seat 17"-19" above the floor		None

Grab Bars

	Facility: Memorial Casey	Comment/Transition Notes
On back and side wall closest to toilet		None
1 1/4" diameter		None
1 1/2" clearance to wall		None
Located 30" above and parallel to the floor		None
Acid-etched or roughened surface		None
42" long		None

Fixtures

	Facility: Memorial Casey	Comment/Transition Notes
Toilet paper dispenser is 24" above floor		None
One mirror set a maximum 38" to bottom (if tilted, 42")		None
Dispensers (towel, soap, etc) at least one of each a maximum 42" above the floor		None

FLOORS, DRINKING FOUNTAINS, TELEPHONES**Floors**

	Facility: Memorial Casey	Comment/Transition Notes
Non-slip surface		None
Carpeting is high-density, low pile, non-absorbent, stretched taut, securely anchored		None
Corridor width minimum is 3 ft		None
Objects (signs, ceiling lights, fixtures) can only protrude 4" into the path of travel from a height of 27" to 80"		None

Drinking Fountains

	Facility: Memorial Casey	Comment/Transition Notes
Spouts no higher than 36" from floor to outlet		None
Hand operated push button or level controls		None
Spouts located near front with stream of water as parallel to front as possible		None
If recessed, recess a minimum 30" width, and no deeper than depth of fountain		None

If no clear knee space underneath, clear floor space 30" x 48" to allow parallel approach	None
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Telephones

	Facility: Memorial Casey	Comment/Transition Notes
Highest operating part a maximum 54" above the floor		None
Access within 12" of phone, 30" high by 30" wide		None
Adjustable volume control on headset so identified		None

SIGNS, SIGNALS, AND SWITCHES

Switches, Controls and Signs

	Facility: Memorial Casey	Comment/Transition Notes
Switches and controls for light, heat, ventilation, windows, fire alarms, thermostats, etc, must be a minimum of 36"		None
Electrical outlets centered no lower than 18" above the floor		None
Warning signals must be visual as well as audible		None

Signs

	Facility: Memorial Casey	Comment/Transition Notes
Mounting height must be 60" to centerline of the sign		None
Within 18" of door jamb or recessed		None
Letters and numbers a t least 1 1/4" high		None
Letters and numbers raised .03"		None
Letters and numbers contrast with the background color		None

SWIMMING POOLS, SHOWER ROOMS & PICNIC FACILITIES

SWIMMING POOLS – accessibility can be via ramp, lifting device, or transfer

	Facility: Memorial Casey	Comment/Transition Notes
Ramp at least 34" wide with a non-slip surface extending into the shallow end, slope not exceeding 1:6 with		None
Lifting device		None
Transfer area 18" above the path of travel and a minimum of 18" wide		None
Unobstructed path of travel not less than 48" wide around pool		None
Non-slip surface		None

SHOWER ROOMS - Showers must accommodate both wheel-in and transfer

	Facility: Memorial Casey	Comment/Transition Notes
Stalls 36" by 60" minimum, with a 36" door opening		None
Floors are pitched to drain the stall at the corner farthest from entrance		None
Floors are non-slip surface		None
Controls operate by a single lever with a pressure balance mixing valve		None
Controls are located on the center wall adjacent to the hinged seat		None
Shower heads attached to a flexible metal hose		None
Shower heads attached to wall mounting adjustable from 42" to 72" above the floor		None
Seat is hinged and padded and at least 16" deep, folds upward, securely attached to side wall, height is 18"		None
Soap trays without handhold features unless they can support 250 pounds		None
2 grab bars are provided, one 30" and one 48" long, or one continuous L shaped bar		None
Grab bars are placed horizontally at 36" above the floor line		None

PICNICKING

	Facility: Memorial Casey	Comment/Transition Notes
A minimum of 5% of the total tables must be accessible with clear space under the table top not less than 30"		None
For tables without toe clearance, the knee space under the table must be at least 28" high, 30" wide and 24"		None
Top of table no higher than 32" above ground		None
Surface of the clear ground space under and around the table must be stable, firm and slip-resistant, and		None
Accessible tables, grills and fire rings must have clear ground space of at least 36" around the perimeter		None

LOCATION/FACILITY/PROGRAM

Mt. Pisgah

Activity	Equipment	Notes	Yes/No	Comments
Picnic Facilities	Tables & Benches			N/A
	Grills			N/A
	Trash Cans			N/A
	Picnic Shelters			N/A
Trails		Surface material		Natural earth with many rock and root obstacles
		Dimensions		Width of paths vary 36"-144"
		Rails		N/A
		Signage for visually impaired		N/A
Swimming Facilities	Pools			N/A
	Beaches			N/A
Play Areas (tot lots)	All Play Equipment i.e. swings, slides			N/A
	Access Routes			N/A
Game Areas: *ballfield; *basketball; *tennis	Access Routes			N/A
	Equipment			
Boat Docks	Access Routes			N/A
Fishing Facilities	Access Routes			N/A
	Equipment			
Programing	Are special programs at your facilities accessible?			N/A
Services and Technical Assistance				

PARKING

Total Spaces

Req. Acc. Spaces

Facility: Mt. Pisgah

Comment/Transition Notes

Up to 25	1 space		No	Dirt parking lot with no defined parking spaces at Smith Road
26-50	2 spaces			Approx. 8 cars
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			

Specification for Accessible Spaces

Facility: **Mt. Pisgah**

Comment/Transition Notes

Accessible space located closest to accessible entrance		No accessible entrance
Where spaces cannot be located within 200 ft of accessible entrance, drop-off area is provided within 100 ft.		N/A
Minimum width of 13 ft includes 8 ft space plus 5 ft access aisle		N/A
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.		N/A
Sign with international symbol of accessibility at each space or pair of spaces		N/A
Sign minimum 5 ft, maximum 8 ft to top of sign		N/A
Surface evenly paved or hard-packed (no cracks)		Hard packed with rocks and roots obstacles
Surface slope less than 1:20, 5%		Yes
Curbscut to pathway from parking lot at each space or pair of spaces, if sidewalk (curb) is present		None
Curbscut 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		N/A

RAMPS

Specifications

Facility: **Mt. Pisgah**

Comment/Transition Notes

Slope Maximum 1:12	N/A	N/A
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		

SITE ACCESS, PATH OF TRAVEL, ENTRANCES

Site Access

Facility: **Mt. Pisgah**

Comment/Transition Notes

Accessible path of travel from passenger disembarking area and parking area to accessible entrance		None
Disembarking area at accessible entrance		
Surface evenly paved or hard-packed		
No ponding of water		

Path of Travel Facility: **Mt. Pisgah** Comment/Transition Notes

Path does not require the use of stairs		N/A
Path is stable, firm and slip resistant		
3 ft wide minimum		
Slope maximum 1:20 (5%) and maximum cross pitch is 2% (1:50).		
Continuous common surface, no changes in level greater than 1/2 inch		
Any objects protruding onto the pathway must be detected by a person with a visual disability using a cane		
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 Facility: **Mt. Pisgah** Comment/Transition Notes

Primary public entrances accessible to person using wheelchair, must be signed, gotten to independently, and not be the service entrance		N/A
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		

STAIRS and DOORS

Stairs Facility: **Mt. Pisgah** Comment/Transition Notes

No open risers		N/A
Nosings not projecting		
Treads no less than 11" wide		
Handrails on both sides		
Handrails 34"-38" above tread		

Handrail extends a minimum of 1 ft beyond top and bottom riser (if no safety hazard and space permits)		
Handgrip oval or round		
Handgrip has a smooth surface		
Handgrip diameter between 1 ¼" and 1 ½"		
1 ½" clearance between wall and handrail		

Doors Facility: **Mt. Pisgah** Comment/Transition Notes

Minimum 32" clear opening		N/A
At least 18" clear floor space on pull side of door		
Closing speed minimum 3 seconds to within 3" of the latch		
Maximum pressure 5 pounds interior doors		
Threshold maximum ½" high, beveled on both sides		
Hardware operable with a closed fist (no conventional door knobs or thumb latch devices)		
Hardware minimum 36", maximum 48" above the floor		
Clear, level floor space extends out 5 ft from both sides of the door		
Door adjacent to revolving door is accessible and unlocked		
Doors opening into hazardous area have hardware that is knurled or roughened		

RESTROOMS – also see Doors and Vestibules

Facility: **Mt. Pisgah** Comment/Transition Notes

5 ft turning space measured 12" from the floor		No restrooms
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At least one Sink: Facility: **Mt. Pisgah** Comment/Transition Notes

Clear floor space of 30" by 48" to allow a forward approach		N/A
Mounted without pedestal or legs, height 34" to top of rim		
Extends at least 22" from the wall		
Open knee space a minimum 19" deep, 30" width, and 27" high		
Cover exposed pipes with insulation		
Faucets operable with closed fist (lever or spring activated handle)		

At least one Stall: Facility: **Mt. Pisgah** Comment/Transition Notes

Accessible to person using wheelchair at 60" wide by 72" deep		N/A
Stall door is 36" wide		
Stall door swings out		
Stall door is self closing		
Stall door has a pull latch		
Lock on stall door is operable with a closed fist, and 32" above the floor		
Coat hook is 54" high		

Toilet	Facility: Mt. Pisgah	Comment/Transition Notes
18" from center to nearest side wall		N/A
42" minimum clear space from center to farthest wall or fixture		
Top of seat 17"-19" above the floor		

Grab Bars	Facility: Mt. Pisgah	Comment/Transition Notes
On back and side wall closest to toilet		N/A
1 1/4" diameter		
1 1/2" clearance to wall		
Located 30" above and parallel to the floor		
Acid-etched or roughened surface		
42" long		

Fixtures	Facility: Mt. Pisgah	Comment/Transition Notes
Toilet paper dispenser is 24" above floor		N/A
One mirror set a maximum 38" to bottom (if tilted, 42")		
Dispensers (towel, soap, etc) at least one of each a maximum 42" above the floor		

FLOORS, DRINKING FOUNTAINS, TELEPHONES

Floors	Facility: Mt. Pisgah	Comment/Transition Notes
Non-slip surface		N/A
Carpeting is high-density, low pile, non-absorbent, stretched taut, securely anchored		
Corridor width minimum is 3 ft		
Objects (signs, ceiling lights, fixtures) can only protrude 4" into the path of travel from a height of 27" to 80" above the floor		

Drinking Fountains	Facility: Mt. Pisgah	Comment/Transition Notes
Spouts no higher than 36" from floor to outlet		N/A
Hand operated push button or level controls		
Spouts located near front with stream of water as parallel to front as possible		
If recessed, recess a minimum 30" width, and no deeper than depth of fountain		
If no clear knee space underneath, clear floor space 30" x 48" to allow parallel approach		

Telephones	Facility: Mt. Pisgah	Comment/Transition Notes
Highest operating part a maximum 54" above the floor		N/A
Access within 12" of phone, 30" high by 30" wide		
Adjustable volume control on headset so identified		

SIGNS, SIGNALS, AND SWITCHES

Switches, Controls and Signs	Facility: Mt. Pisgah	Comment/Transition Notes
Switches and controls for light, heat, ventilation, windows, fire alarms, thermostats, etc, must be a minimum of 36" and a maximum of 48" above the		N/A

Electrical outlets centered no lower than 18" above the floor		
Warning signals must be visual as well as audible		

Signs	Facility: Mt. Pisgah	Comment/Transition Notes
Mounting height must be 60" to centerline of the sign		N/A
Within 18" of door jamb or recessed		
Letters and numbers at least 1/4" high		
Letters and numbers raised .03"		
Letters and numbers contrast with the background color		

SWIMMING POOLS, SHOWER ROOMS & PICNIC FACILITIES

SWIMMING POOLS – accessibility can be via ramp, lifting device, or transfer area

	Facility: Mt. Pisgah	Comment/Transition Notes
Ramp at least 34" wide with a non-slip surface extending into the shallow end, slope not exceeding 1:6 with handrails on both sides		N/A
Lifting device		
Transfer area 18" above the path of travel and a minimum of 18" wide		
Unobstructed path of travel not less than 48" wide around pool		
Non-slip surface		

SHOWER ROOMS - Showers must accor

	Facility: Mt. Pisgah	Comment/Transition Notes
Stalls 36" by 60" minimum, with a 36" door opening		N/A
Floors are pitched to drain the stall at the corner farthest from entrance		
Floors are non-slip surface		
Controls operate by a single lever with a pressure balance mixing valve		
Controls are located on the center wall adjacent to the hinged seat		
Shower heads attached to a flexible metal hose		
Shower heads attached to wall mounting adjustable from 42" to 72" above the floor		
Seat is hinged and padded and at least 16" deep, folds upward, securely attached to side wall, height is 18" to the top of the seat, and at least 24" long		
Soap trays without handhold features unless they can support 250 pounds		
2 grab bars are provided, one 30" and one 48" long, or one continuous L shaped bar		
Grab bars are placed horizontally at 36" above the floor line		

PICNICKING

	Facility: Mt. Pisgah	Comment/Transition Notes
A minimum of 5% of the total tables must be accessible with clear space under the table top not less than 30" wide and 19" deep per seating space and not less than 27" clear from the ground to the underside of the table. An additional 29" clear space (totaling 48") must extend beyond the 19" clear space under the table to provide access		N/A

For tables without toe clearance, the knee space under the table must be at least 28" high, 30" wide and 24" deep		
Top of table no higher than 32" above ground		
Surface of the clear ground space under and around the table must be stable, firm and slip-resistant, and evenly graded with a maximum slope of 2% in all directions		
Accessible tables, grills and fire rings must have clear ground space of at least 36" around the perimeter		

LOCATION/FACILITY/PROGRAM

Facility: Senior Center

Activity	Equipment	Notes	Comments
Picnic Facilities	Tables & Benches	Outdoor patio with chairs/tables	Yes
	Grills	none	
	Trash Cans	Yes, outdoor	
	Picnic Shelters	none	
Trails		Yes, rough dirt and narrow	
Swimming Facilities	Pools	None	
	Beaches	None	
Play Areas (tot lots)	All Play Equipment i.e. swings, slides	None	
	Access Routes	None	
Game Areas: *ballfield; *basketball; *tennis	Access Routes	None	
	Equipment	None	
Boat Docks	Access Routes	None	
Fishing Facilities	Access Routes	None	
	Equipment	None	
Programing	Are special programs at your facilities accessible?	None	
Services and Technical Assistance	None		

PARKING

Total Spaces	Required Accessible Spaces	Facility: Senior Center	Comment/Transition Notes
Up to 25	1 space		
26-50	2 spaces	38 with 2 handicapped	Yes
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		

Specification for Accessible Spaces

Facility: Senior Center

Comment/Transition Notes

Accessible space located closest to accessible entrance	Yes
Where spaces cannot be located within 200 ft of accessible entrance, drop-off area is provided within 100 ft.	Yes
Minimum width of 13 ft includes 8 ft space plus 5 ft access aisle	Yes
Van space – minimum of 1 van space for every accessible space, 8 ft wide plus 8 ft aisle. Alternative is to make	Yes

Sign with international symbol of accessibility at each space or pair of spaces	Yes
Sign minimum 5 ft, maximum 8 ft to top of sign	Yes
Surface evenly paved or hard-packed (no cracks)	Yes
Surface slope less than 1:20, 5%	Yes
Curbside to pathway from parking lot at each space or pair of spaces, if sidewalk (curb) is present	Yes
Curbside is a minimum width of 3 ft, excluding sloped sides, has sloped sides, all slopes not to exceed 1:12, and	Yes

RAMPS

Specifications	Facility: Senior Center	Comment/Transition Notes
Slope Maximum 1:12		Yes
Minimum width 4 ft between handrails		Yes
Handrails on both sides if ramp is longer than 6 ft		Yes
Handrails at 34" and 19" from ramp surface		Yes
Handrails extend 12" beyond top and bottom		Yes
Handgrip oval or round		Yes
Handgrip smooth surface		Yes
Handgrip diameter between 1 1/4" and 2"		Yes
Clearance of 1 1/2" between wall and wall rail		Yes
Non-slip surface		Yes
Level platforms (4ft x 4 ft) at every 30 ft, at top, at bottom, at change of direction		Yes

SITE ACCESS, PATH OF TRAVEL, ENTRANCES

Site Access	Facility: Senior Center	Comment/Transition Notes
Accessible path of travel from passenger disembarking area and parking area to accessible entrance		Yes
Disembarking area at accessible entrance		Yes
Surface evenly paved or hard-packed		Yes
No ponding of water		Yes

Path of Travel	Facility: Senior Center	Comment/Transition Notes
Path does not require the use of stairs		Yes
Path is stable, firm and slip resistant		Yes
3 ft wide minimum		Yes
Slope maximum 1:20 (5%) and maximum cross pitch is 2% (1:50).		Yes
Continuous common surface, no changes in level greater than 1/2 inch		Yes
Any objects protruding onto the pathway must be detected by a person with a visual disability using a cane		Yes
Objects protruding more than 4" from the wall must be within 27" of the ground, or higher than 80"		Yes
Curbside on the pathway must have curbside cuts at drives, parking and drop-offs		Yes

Entrances	Facility: Senior Center	Comment/Transition Notes
Primary public entrances accessible to person using wheelchair, must be signed, gotten to independently, and not		Yes
Level space extending 5 ft. from the door, interior and exterior of entrance doors		Yes
Minimum 32" clear width opening (i.e. 36" door with standard hinge)		Yes
At least 18" clear floor area on latch, pull side of door		Yes
Door handle no higher than 48" and operable with a closed fist		Yes
Vestibule is 4 ft plus the width of the door swinging into the space		Yes
Entrance(s) on a level that makes elevators accessible		Yes
Door mats less than 1/2" thick are securely fastened		Yes
Door mats more than 1/2" thick are recessed		Yes
Grates in path of travel have openings of 1/2" maximum		Yes
Signs at non-accessible entrance(s) indicate direction to accessible entrance		Yes
Emergency egress – alarms with flashing lights and audible signals, sufficiently lighted		Yes

STAIRS and DOORS

Stairs	Facility: Senior Center	Comment/Transition Notes
No open risers		Yes
Nosings not projecting		Yes
Treads no less than 11" wide		Yes
Handrails on both sides		Yes
Handrails 34"-38" above tread		Yes
Handrail extends a minimum of 1 ft beyond top and bottom riser (if no safety hazard and space permits)		Yes
Handgrip oval or round		Yes
Handgrip has a smooth surface		Yes
Handgrip diameter between 1 1/4" and 1 1/2"		Yes

1 1/2" clearance between wall and handrail	Yes
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Doors

	Facility: Senior Center	Comment/Transition Notes
Minimum 32" clear opening		Yes
At least 18" clear floor space on pull side of door		Yes
Closing speed minimum 3 seconds to within 3" of the latch		Yes
Maximum pressure 5 pounds interior doors		Yes
Threshold maximum 1/2" high, beveled on both sides		Yes
Hardware operable with a closed fist (no conventional door knobs or thumb latch devices)		Yes
Hardware minimum 36", maximum 48" above the floor		Yes
Clear, level floor space extends out 5 ft from both sides of the door		Yes
Door adjacent to revolving door is accessible and unlocked		Yes
Doors opening into hazardous area have hardware that is knurled or roughened		Yes

RESTROOMS – also see Doors and Vestibules

	Facility: Senior Center	Comment/Transition Notes
5 ft turning space measured 12" from the floor		Yes

At least one Sink:

	Facility: Senior Center	Comment/Transition Notes
Clear floor space of 30" by 48" to allow a forward approach		Yes
Mounted without pedestal or legs, height 34" to top of rim		Yes
Extends at least 22" from the wall		Yes
Open knee space a minimum 19" deep, 30" width, and 27" high		Yes
Cover exposed pipes with insulation		Yes
Faucets operable with closed fist (lever or spring activated handle)		Yes

At least one Stall:

	Facility: Senior Center	Comment/Transition Notes
Accessible to person using wheelchair at 60" wide by 72" deep		Yes
Stall door is 36" wide		Yes
Stall door swings out		Yes
Stall door is self closing		Yes
Stall door has a pull latch		Yes
Lock on stall door is operable with a closed fist, and 32" above the floor		Yes
Coat hook is 54" high		Yes

Toilet

	Facility: Senior Center	Comment/Transition Notes
18" from center to nearest side wall		Yes
42" minimum clear space from center to farthest wall or fixture		Yes
Top of seat 17"-19" above the floor		Yes

Grab Bars

	Facility: Senior Center	Comment/Transition Notes
On back and side wall closest to toilet		Yes
1 1/4" diameter		Yes
1 1/2" clearance to wall		Yes
Located 30" above and parallel to the floor		Yes
Acid-etched or roughened surface		Yes
42" long		Yes

Fixtures

	Facility: Senior Center	Comment/Transition Notes
Toilet paper dispenser is 24" above floor		Yes
One mirror set a maximum 38" to bottom (if tilted, 42")		Yes
Dispensers (towel, soap, etc) at least one of each a maximum 42" above the floor		Yes

FLOORS, DRINKING FOUNTAINS, TELEPHONES

Floors

	Facility: Senior Center	Comment/Transition Notes
Non-slip surface		Yes
Carpeting is high-density, low pile, non-absorbent, stretched taut, securely anchored		Yes
Corridor width minimum is 3 ft		Yes
Objects (signs, ceiling lights, fixtures) can only protrude 4" into the path of travel from a height of 27" to 80"		Yes

Drinking Fountains

	Facility: Senior Center	Comment/Transition Notes
Spouts no higher than 36" from floor to outlet		Yes
Hand operated push button or level controls		Yes

Spouts located near front with stream of water as parallel to front as possible	Yes
If recessed, recess a minimum 30" width, and no deeper than depth of fountain	Yes
If no clear knee space underneath, clear floor space 30" x 48" to allow parallel approach	Yes

Telephones

	Facility: Senior Center	Comment/Transition Notes
Highest operating part a maximum 54" above the floor		Yes
Access within 12" of phone, 30" high by 30" wide		Yes
Adjustable volume control on headset so identified		Yes

SIGNS, SIGNALS, AND SWITCHES

Switches, Controls and Signs

	Facility: Senior Center	Comment/Transition Notes
Switches and controls for light, heat, ventilation, windows, fire alarms, thermostats, etc, must be a minimum of 36"		Yes
Electrical outlets centered no lower than 18" above the floor		Yes
Warning signals must be visual as well as audible		Yes

Signs

	Facility: Senior Center	Comment/Transition Notes
Mounting height must be 60" to centerline of the sign		Yes
Within 18" of door jamb or recessed		Yes
Letters and numbers a t least 1 1/4" high		Yes
Letters and numbers raised .03"		Yes
Letters and numbers contrast with the background color		Yes

SWIMMING POOLS, SHOWER ROOMS & PICNIC FACILITIES

SWIMMING POOLS – accessibility can be via ramp, lifting device, or transfer

	Facility: Senior Center	Comment/Transition Notes
Ramp at least 34" wide with a non-slip surface extending into the shallow end, slope not exceeding 1:6 with		None
Lifting device		None
Transfer area 18" above the path of travel and a minimum of 18" wide		None
Unobstructed path of travel not less than 48" wide around pool		None
Non-slip surface		None

SHOWER ROOMS - Showers must accommodate both wheel-in and transfer

	Facility: Senior Center	Comment/Transition Notes
Stalls 36" by 60" minimum, with a 36" door opening		None
Floors are pitched to drain the stall at the corner farthest from entrance		None
Floors are non-slip surface		None
Controls operate by a single lever with a pressure balance mixing valve		None
Controls are located on the center wall adjacent to the hinged seat		None
Shower heads attached to a flexible metal hose		None
Shower heads attached to wall mounting adjustable from 42" to 72" above the floor		None
Seat is hinged and padded and at least 16" deep, folds upward, securely attached to side wall, height is 18"		None
Soap trays without handhold features unless they can support 250 pounds		None
2 grab bars are provided, one 30" and one 48" long, or one continuous L shaped bar		None
Grab bars are placed horizontally at 36" above the floor line		None

PICNICKING

	Facility: Senior Center	Comment/Transition Notes
A minimum of 5% of the total tables must be accessible with clear space under the table top not less than 30"		Yes
For tables without toe clearance, the knee space under the table must be at least 28" high, 30" wide and 24"		Yes
Top of table no higher than 32" above ground		Yes
Surface of the clear ground space under and around the table must be stable, firm and slip-resistant, and		Yes
Accessible tables, grills and fire rings must have clear ground space of at least 36" around the perimeter		Yes

LOCATION/FACILITY/PROGRAM

Stirrup Brook - ARHS

Activity	Equipment	Notes	Yes/No	Comments
Picnic Facilities	Tables & Benches			N/A
	Grills			
	Trash Cans			
	Picnic Shelters			
Trails		Surface material		Natural earth with many rock and root obstacles
		Dimensions		Width of paths vary
		Rails	No	
		Signage for visually impaired	No	
Swimming Facilities	Pools			N/A
	Beaches			N/A
Play Areas (tot lots)	All Play Equipment i.e. swings, slides			N/A
	Access Routes			
Game Areas: *ballfield; *basketball; *tennis	Access Routes			N/A
	Equipment			
Boat Docks	Access Routes			N/A
Fishing Facilities	Access Routes			N/A
	Equipment			
Programing	Are special programs at your facilities accessible?			N/A
Services and Technical Assistance				

PARKING

Total Spaces	Req. Acc. Spaces	Facility: Stirrup - ARHS	Comment/Transition Notes
Up to 25	1 space	No	Dirt parking lot with no defined parking spaces

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		

Specification for Accessible Spaces

Facility: **Stirrup - ARHS**

Comment/Transition Notes

Accessible space located closest to accessible entrance		No accessible entrance
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)		Dirt paths with rocks and roots obstacles
Surface slope less than 1:20, 5%		N/A
Curbscut to pathway from parking lot at each space or pair of spaces, if sidewalk (curb) is present		N/A
Curbscut 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

Specifications

Facility: **Stirrup - ARHS**

Comment/Transition Notes

Slope Maximum 1:12	N/A	N/A
Minimum width 4 ft between handrails		N/A
Handrails on both sides if ramp is longer than 6 ft		N/A
Handrails at 34" and 19" from ramp surface		N/A
Handrails extend 12" beyond top and bottom		N/A
Handgrip oval or round		N/A
Handgrip smooth surface		N/A
Handgrip diameter between 1¼" and 2"		N/A
Clearance of 1½" between wall and wall rail		N/A
Non-slip surface		N/A
Level platforms (4ft x 4 ft) at every 30 ft, at top, at bottom, at change of direction		N/A

SITE ACCESS, PATH OF TRAVEL, ENTRANCES

Site Access

Facility: **Stirrup - ARHS**

Comment/Transition Notes

Accessible path of travel from passenger disembarking area and parking area to accessible entrance		N/A
Disembarking area at accessible entrance		N/A
Surface evenly paved or hard-packed		Dirt
No ponding of water		N/A

Path of Travel Facility: **Stirrup - ARHS** Comment/Transition Notes

Path does not require the use of stairs		N/A
Path is stable, firm and slip resistant		No
3 ft wide minimum		No
Slope maximum 1:20 (5%) and maximum cross pitch is 2% (1:50).		No
Continuous common surface, no changes in level greater than 1/2 inch		No
Any objects protruding onto the pathway must be detected by a person with a visual disability using a cane		No
Objects protruding more than 4" from the wall must be within 27" of the ground, or higher than 80"		N/A
Curb on the pathway must have curb cuts at drives, parking and drop-offs		N/A

Entrances Facility: **Stirrup - ARHS** Comment/Transition Notes

Primary public entrances accessible to person using wheelchair, must be signed, gotten to independently, and not be the service entrance		N/A
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		

STAIRS and DOORS

Stairs Facility: **Stirrup - ARHS** Comment/Transition Notes

No open risers		N/A
Nosings not projecting		
Treads no less than 11" wide		
Handrails on both sides		
Handrails 34"-38" above tread		

Handrail extends a minimum of 1 ft beyond top and bottom riser (if no safety hazard and space permits)		
Handgrip oval or round		
Handgrip has a smooth surface		
Handgrip diameter between 1¼" and 1½"		
1½" clearance between wall and handrail		

Doors

Facility: **Stirrup - ARHS**

Comment/Transition Notes

Minimum 32" clear opening		N/A
At least 18" clear floor space on pull side of door		
Closing speed minimum 3 seconds to within 3" of the latch		
Maximum pressure 5 pounds interior doors		
Threshold maximum ½" high, beveled on both sides		
Hardware operable with a closed fist (no conventional door knobs or thumb latch devices)		
Hardware minimum 36", maximum 48" above the floor		
Clear, level floor space extends out 5 ft from both sides of the door		
Door adjacent to revolving door is accessible and unlocked		
Doors opening into hazardous area have hardware that is knurled or roughened		

RESTROOMS – also see Doors and Vestibules

Facility: **Stirrup - ARHS**

Comment/Transition Notes

5 ft turning space measured 12" from the floor		No restrooms
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At least one Sink:

Facility: **Stirrup - ARHS**

Comment/Transition Notes

Clear floor space of 30" by 48" to allow a forward approach		N/A
Mounted without pedestal or legs, height 34" to top of rim		
Extends at least 22" from the wall		
Open knee space a minimum 19" deep, 30" width, and 27" high		
Cover exposed pipes with insulation		
Faucets operable with closed fist (lever or spring activated handle)		

At least one Stall:

Facility: **Stirrup - ARHS**

Comment/Transition Notes

Accessible to person using wheelchair at 60" wide by 72" deep		N/A
Stall door is 36" wide		
Stall door swings out		
Stall door is self closing		
Stall door has a pull latch		
Lock on stall door is operable with a closed fist, and 32" above the floor		

Coat hook is 54" high		
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Toilet	Facility: Stirrup - ARHS	Comment/Transition Notes
18" from center to nearest side wall		N/A
42" minimum clear space from center to farthest wall or fixture		
Top of seat 17"-19" above the floor		

Grab Bars	Facility: Stirrup - ARHS	Comment/Transition Notes
On back and side wall closest to toilet		N/A
1 1/4" diameter		
1 1/2" clearance to wall		
Located 30" above and parallel to the floor		
Acid-etched or roughened surface		
42" long		

Fixtures	Facility: Stirrup - ARHS	Comment/Transition Notes
Toilet paper dispenser is 24" above floor		N/A
One mirror set a maximum 38" to bottom (if tilted, 42")		
Dispensers (towel, soap, etc) at least one of each a maximum 42" above the floor		

FLOORS, DRINKING FOUNTAINS, TELEPHONES

Floors	Facility: Stirrup - ARHS	Comment/Transition Notes
Non-slip surface		N/A
Carpeting is high-density, low pile, non-absorbent, stretched taut, securely anchored		
Corridor width minimum is 3 ft		
Objects (signs, ceiling lights, fixtures) can only protrude 4" into the path of travel from a height of 27" to 80" above the floor		

Drinking Fountains	Facility: Stirrup - ARHS	Comment/Transition Notes
Spouts no higher than 36" from floor to outlet		N/A
Hand operated push button or level controls		
Spouts located near front with stream of water as parallel to front as possible		
If recessed, recess a minimum 30" width, and no deeper than depth of fountain		
If no clear knee space underneath, clear floor space 30" x 48" to allow parallel approach		

Telephones	Facility: Stirrup - ARHS	Comment/Transition Notes
Highest operating part a maximum 54" above the floor		N/A
Access within 12" of phone, 30" high by 30" wide		

Adjustable volume control on headset so identified		
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SIGNS, SIGNALS, AND SWITCHES

Switches, Controls and Signs

Facility: **Stirrup - ARHS**

Comment/Transition Notes

Switches and controls for light, heat, ventilation, windows, fire alarms, thermostats, etc, must be a minimum of 36" and a maximum of 48" above the		N/A
Electrical outlets centered no lower than 18" above the floor		
Warning signals must be visual as well as audible		

Signs

Facility: **Stirrup - ARHS**

Comment/Transition Notes

Mounting height must be 60" to centerline of the sign		N/A
Within 18" of door jamb or recessed		
Letters and numbers a t least 1¼" high		
Letters and numbers raised .03"		
Letters and numbers contrast with the background color		

SWIMMING POOLS, SHOWER ROOMS & PICNIC FACILITIES

SWIMMING POOLS – accessibility can be via ramp, lifting device, or transfer area

Facility: **Stirrup - ARHS**

Comment/Transition Notes

Ramp at least 34" wide with a non-slip surface extending into the shallow end, slope not exceeding 1:6 with handrails on both sides		N/A
Lifting device		
Transfer area 18" above the path of travel and a minimum of 18" wide		
Unobstructed path of travel not less than 48" wide around pool		
Non-slip surface		

SHOWER ROOMS - Showers must accor

Facility: **Stirrup - ARHS**

Comment/Transition Notes

Stalls 36" by 60" minimum, with a 36" door opening		N/A
Floors are pitched to drain the stall at the corner farthest from entrance		
Floors are non-slip surface		
Controls operate by a single lever with a pressure balance mixing valve		
Controls are located on the center wall adjacent to the hinged seat		
Shower heads attached to a flexible metal hose		
Shower heads attached to wall mounting adjustable from 42" to 72" above the floor		
Seat is hinged and padded and at least 16" deep, folds upward, securely attached to side wall, height is 18" to the top of the seat, and at least 24" long		
Soap trays without handhold features unless they can support 250 pounds		
2 grab bars are provided, one 30" and one 48" long, or one continuous L shaped bar		
Grab bars are placed horizontally at 36" above the floor line		

PICNICKINGFacility: **Stirrup - ARHS****Comment/Transition Notes**

A minimum of 5% of the total tables must be accessible with clear space under the table top not less than 30" wide and 19" deep per seating space and not less than 27" clear from the ground to the underside of the table. An additional 29" clear space (totaling 48") must extend beyond the 19" clear space under the table to provide access		N/A
For tables without toe clearance, the knee space under the table must be at least 28" high, 30" wide and 24" deep		
Top of table no higher than 32" above ground		
Surface of the clear ground space under and around the table must be stable, firm and slip-resistant, and evenly graded with a maximum slope of 2% in all directions		
Accessible tables, grills and fire rings must have clear ground space of at least 36" around the perimeter		

LOCATION/FACILITY/PROGRAM

Stirrup Brook- Rte 20

Activity	Equipment	Notes	Yes/No	Comments
Picnic Facilities	Tables & Benches			N/A
	Grills			
	Trash Cans			
	Picnic Shelters			
Trails		Surface material		Natural earth with many rock and root obstacles
		Dimensions		Width of path varies
		Rails	No	
		Signage for visually impaired	No	
Swimming Facilities	Pools			N/A
	Beaches			N/A
Play Areas (tot lots)	All Play Equipment i.e. swings, slides			N/A
	Access Routes			
Game Areas: *ballfield; *basketball; *tennis	Access Routes			N/A
	Equipment			
Boat Docks	Access Routes			N/A
Fishing Facilities	Access Routes			N/A
	Equipment			
Programing	Are special programs at your facilities accessible?			N/A
Services and Technical Assistance				

PARKING

Total Spaces	Req. Acc. Spaces	Facility: Stirrup- Rte 20	Comment/Transition Notes
Up to 25	1 space	No	Broken asphalt parking area with no defined parking spaces

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		

Specification for Accessible Spaces

Facility: **Stirrup- Rte 20**

Comment/Transition Notes

Accessible space located closest to accessible entrance		No accessible entrance
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)		Dirt paths with rocks and roots obstacles
Surface slope less than 1:20, 5%		N/A
Curbscut to pathway from parking lot at each space or pair of spaces, if sidewalk (curb) is present		N/A
Curbscut 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

Specifications

Facility: **Stirrup- Rte 20**

Comment/Transition Notes

Slope Maximum 1:12	N/A	N/A
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 1¼" and 2"		
Clearance of 1½" 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		

SITE ACCESS, PATH OF TRAVEL, ENTRANCES

Site Access

Facility: **Stirrup- Rte 20**

Comment/Transition Notes

Accessible path of travel from passenger disembarking area and parking area to accessible entrance		N/A
Disembarking area at accessible entrance		N/A
Surface evenly paved or hard-packed		Dirt
No ponding of water		N/A

Path of Travel Facility: **Stirrup- Rte 20** Comment/Transition Notes

Path does not require the use of stairs		N/A
Path is stable, firm and slip resistant		No
3 ft wide minimum		
Slope maximum 1:20 (5%) and maximum cross pitch is 2% (1:50).		
Continuous common surface, no changes in level greater than 1/2 inch		
Any objects protruding onto the pathway must be detected by a person with a visual disability using a cane		
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 Facility: **Stirrup- Rte 20** Comment/Transition Notes

Primary public entrances accessible to person using wheelchair, must be signed, gotten to independently, and not be the service entrance		N/A
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		

STAIRS and DOORS

Stairs Facility: **Stirrup- Rte 20** Comment/Transition Notes

No open risers		N/A
Nosings not projecting		
Treads no less than 11" wide		
Handrails on both sides		
Handrails 34"-38" above tread		

Handrail extends a minimum of 1 ft beyond top and bottom riser (if no safety hazard and space permits)		
Handgrip oval or round		
Handgrip has a smooth surface		
Handgrip diameter between 1¼" and 1½"		
1½" clearance between wall and handrail		

Doors

Facility: **Stirrup- Rte 20**

Comment/Transition Notes

Minimum 32" clear opening		N/A
At least 18" clear floor space on pull side of door		
Closing speed minimum 3 seconds to within 3" of the latch		
Maximum pressure 5 pounds interior doors		
Threshold maximum ½" high, beveled on both sides		
Hardware operable with a closed fist (no conventional door knobs or thumb latch devices)		
Hardware minimum 36", maximum 48" above the floor		
Clear, level floor space extends out 5 ft from both sides of the door		
Door adjacent to revolving door is accessible and unlocked		
Doors opening into hazardous area have hardware that is knurled or roughened		

RESTROOMS – also see Doors and Vestibules

Facility: **Stirrup- Rte 20**

Comment/Transition Notes

5 ft turning space measured 12" from the floor		No restrooms
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At least one Sink:

Facility: **Stirrup- Rte 20**

Comment/Transition Notes

Clear floor space of 30" by 48" to allow a forward approach		N/A
Mounted without pedestal or legs, height 34" to top of rim		
Extends at least 22" from the wall		
Open knee space a minimum 19" deep, 30" width, and 27" high		
Cover exposed pipes with insulation		
Faucets operable with closed fist (lever or spring activated handle)		

At least one Stall:

Facility: **Stirrup- Rte 20**

Comment/Transition Notes

Accessible to person using wheelchair at 60" wide by 72" deep		N/A
Stall door is 36" wide		
Stall door swings out		
Stall door is self closing		
Stall door has a pull latch		
Lock on stall door is operable with a closed fist, and 32" above the floor		
Coat hook is 54" high		

ToiletFacility: **Stirrup- Rte 20**

Comment/Transition Notes

18" from center to nearest side wall		N/A
42" minimum clear space from center to farthest wall or fixture		
Top of seat 17"-19" above the floor		

Grab BarsFacility: **Stirrup- Rte 20**

Comment/Transition Notes

On back and side wall closest to toilet		N/A
1 1/4" diameter		
1 1/2" clearance to wall		
Located 30" above and parallel to the floor		
Acid-etched or roughened surface		
42" long		

FixturesFacility: **Stirrup- Rte 20**

Comment/Transition Notes

Toilet paper dispenser is 24" above floor		N/A
One mirror set a maximum 38" to bottom (if tilted, 42")		
Dispensers (towel, soap, etc) at least one of each a maximum 42" above the floor		

FLOORS, DRINKING FOUNTAINS, TELEPHONES**Floors**Facility: **Stirrup- Rte 20**

Comment/Transition Notes

Non-slip surface		N/A
Carpeting is high-density, low pile, non-absorbent, stretched taut, securely anchored		
Corridor width minimum is 3 ft		
Objects (signs, ceiling lights, fixtures) can only protrude 4" into the path of travel from a height of 27" to 80" above the floor		

Drinking FountainsFacility: **Stirrup- Rte 20**

Comment/Transition Notes

Spouts no higher than 36" from floor to outlet		N/A
Hand operated push button or level controls		
Spouts located near front with stream of water as parallel to front as possible		
If recessed, recess a minimum 30" width, and no deeper than depth of fountain		
If no clear knee space underneath, clear floor space 30" x 48" to allow parallel approach		

TelephonesFacility: **Stirrup- Rte 20**

Comment/Transition Notes

Highest operating part a maximum 54" above the floor		N/A
Access within 12" of phone, 30" high by 30" wide		

Adjustable volume control on headset so identified		
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SIGNS, SIGNALS, AND SWITCHES

Switches, Controls and Signs

Facility: **Stirrup- Rte 20**

Comment/Transition Notes

Switches and controls for light, heat, ventilation, windows, fire alarms, thermostats, etc, must be a minimum of 36" and a maximum of 48" above the		N/A
Electrical outlets centered no lower than 18" above the floor		
Warning signals must be visual as well as audible		

Signs

Facility: **Stirrup- Rte 20**

Comment/Transition Notes

Mounting height must be 60" to centerline of the sign		N/A
Within 18" of door jamb or recessed		
Letters and numbers a t least 1¼" high		
Letters and numbers raised .03"		
Letters and numbers contrast with the background color		

SWIMMING POOLS, SHOWER ROOMS & PICNIC FACILITIES

SWIMMING POOLS – accessibility can be via ramp, lifting device, or transfer area

Facility: **Stirrup- Rte 20**

Comment/Transition Notes

Ramp at least 34" wide with a non-slip surface extending into the shallow end, slope not exceeding 1:6 with handrails on both sides		N/A
Lifting device		
Transfer area 18" above the path of travel and a minimum of 18" wide		
Unobstructed path of travel not less than 48" wide around pool		
Non-slip surface		

SHOWER ROOMS- Showers must accor

Facility: **Stirrup- Rte 20**

Comment/Transition Notes

Stalls 36" by 60" minimum, with a 36" door opening		N/A
Floors are pitched to drain the stall at the corner farthest from entrance		
Floors are non-slip surface		
Controls operate by a single lever with a pressure balance mixing valve		
Controls are located on the center wall adjacent to the hinged seat		
Shower heads attached to a flexible metal hose		
Shower heads attached to wall mounting adjustable from 42" to 72" above the floor		
Seat is hinged and padded and at least 16" deep, folds upward, securely attached to side wall, height is 18" to the top of the seat, and at least 24" long		
Soap trays without handhold features unless they can support 250 pounds		
2 grab bars are provided, one 30" and one 48" long, or one continuous L shaped bar		
Grab bars are placed horizontally at 36" above the floor line		

PICNICKINGFacility: **Stirrup- Rte 20**

Comment/Transition Notes

A minimum of 5% of the total tables must be accessible with clear space under the table top not less than 30" wide and 19" deep per seating space and not less than 27" clear from the ground to the underside of the table. An additional 29" clear space (totaling 48") must extend beyond the 19" clear space under the table to provide access		N/A
For tables without toe clearance, the knee space under the table must be at least 28" high, 30" wide and 24" deep		
Top of table no higher than 32" above ground		
Surface of the clear ground space under and around the table must be stable, firm and slip-resistant, and evenly graded with a maximum slope of 2% in all directions		
Accessible tables, grills and fire rings must have clear ground space of at least 36" around the perimeter		

LOCATION/FACILITY/PROGRAM

Watson Park

Activity	Equipment	Notes		Comments	
Picnic Facilities	Tables & Benches			Two picnic tables, one needing board replaced	
	Grills			No grills	
	Trash Cans			Blue bin not managed by DPW	
	Picnic Shelters			No shelters	
Trails				Watson Park trail to Ridge Road	
Swimming Facilities	Pools			None	
	Beaches				None
Play Areas (tot lots)	All Play Equipment i.e.			None	
	Access Routes				
Game Areas: *ballfield; *basketball; *tennis	Access Routes			None	
	Equipment			None	
Boat Docks	Access Routes			None	
Fishing Facilities	Access Routes			Boat Ramp to Bartlett Pond	
	Equipment			None	
Programing	Are special programs at your facilities accessible?			No programs scheduled at this park	
Services and Technical Assistance				None	

PARKING

Total Spaces	Required Access:	Facility: Watson Park	Comment/Transition Notes
Up to 25	1 space		Paved loop can accommodate ~20 cars
26-50	2 spaces		No marked 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		

Specification for Accessible Spaces

	Facility: Watson Park	Comment/Transition Notes
Accessible space located closest to accessible entrance		No accessible entrance
Where spaces cannot be located within 200 ft of accessible entrance, drop-off area is provided within 100 ft.		None
Minimum width of 13 ft includes 8 ft space plus 5 ft access aisle		None
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		None
Sign with international symbol of accessibility at each space or pair of spaces		None
Sign minimum 5 ft, maximum 8 ft to top of sign		None
Surface evenly paved or hard-packed (no cracks)		Resurfaced June 2022
Surface slope less than 1:20, 5%		Yes
Curbside to pathway from parking lot at each space or pair of spaces, if sidewalk (curb) is present		N/A
Curbside 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		N/A

RAMPS

Specifications	Facility: Watson Park	Comment/Transition Notes
Slope Maximum 1:12		N/A
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 1¼" and 2"		
Clearance of 1½" 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		

SITE ACCESS, PATH OF TRAVEL, ENTRANCES

Site Access	Facility: Watson Park	Comment/Transition Notes
Accessible path of travel from passenger disembarking area and parking area to accessible entrance		N/A
Disembarking area at accessible entrance		N/A
Surface evenly paved or hard-packed		Yes
No ponding of water		No ponding

Path of Travel

	Facility: Watson Park	Comment/Transition Notes
Path does not require the use of stairs		Yes

Path is stable, firm and slip resistant		Yes
3 ft wide minimum		Yes
Slope maximum 1:20 (5%) and maximum cross pitch is 2% (1:50).		Yes
Continuous common surface, no changes in level greater than 1/2 inch		Repaved June 2022
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"		N/A
Curb on the pathway must have curb cuts at drives, parking and drop-offs		N/A

Entrances	Facility: Watson Park	Comment/Transition Notes
Primary public entrances accessible to person using wheelchair, must be signed, gotten to independently, and not be the service entrance		N/A
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		

STAIRS and DOORS

Stairs	Facility: Watson Park	Comment/Transition Notes
No open risers		N/A
Nosings not projecting		
Treads no less than 11" wide		
Handrails on both sides		
Handrails 34"-38" above tread		
Handrail extends a minimum of 1 ft beyond top and bottom riser (if no safety hazard and space permits)		
Handgrip oval or round		
Handgrip has a smooth surface		
Handgrip diameter between 1 1/4" and 1 1/2"		
1 1/2" clearance between wall and handrail		

Doors	Facility: Watson Park	Comment/Transition Notes
Minimum 32" clear opening		N/A
At least 18" clear floor space on pull side of door		
Closing speed minimum 3 seconds to within 3" of the latch		
Maximum pressure 5 pounds interior doors		
Threshold maximum 1/2" high, beveled on both sides		
Hardware operable with a closed fist (no conventional door knobs or thumb latch devices)		
Hardware minimum 36", maximum 48" above the floor		
Clear, level floor space extends out 5 ft from both sides of the door		

Door adjacent to revolving door is accessible and unlocked		
Doors opening into hazardous area have hardware that is knurled or roughened		

RESTROOMS – also see Doors and Vestibules

	Facility: Watson Park	Comment/Transition Notes
5 ft turning space measured 12" from the floor		No restrooms

At least one Sink:	Facility: Watson Park	Comment/Transition Notes
Clear floor space of 30" by 48" to allow a forward approach		N/A
Mounted without pedestal or legs, height 34" to top of rim		
Extends at least 22" from the wall		
Open knee space a minimum 19" deep, 30" width, and 27" high		
Cover exposed pipes with insulation		
Faucets operable with closed fist (lever or spring activated handle)		

At least one Stall:	Facility: Watson Park	Comment/Transition Notes
Accessible to person using wheelchair at 60" wide by 72" deep		N/A
Stall door is 36" wide		
Stall door swings out		
Stall door is self closing		
Stall door has a pull latch		
Lock on stall door is operable with a closed fist, and 32" above the floor		
Coat hook is 54" high		

Toilet	Facility: Watson Park	Comment/Transition Notes
18" from center to nearest side wall		No toilets
42" minimum clear space from center to farthest wall or fixture		
Top of seat 17"-19" above the floor		

Grab Bars	Facility: Watson Park	Comment/Transition Notes
On back and side wall closest to toilet		N/A
1 1/4" diameter		
1 1/2" clearance to wall		
Located 30" above and parallel to the floor		
Acid-etched or roughened surface		
42" long		

Fixtures	Facility: Watson Park	Comment/Transition Notes
Toilet paper dispenser is 24" above floor		N/A
One mirror set a maximum 38" to bottom (if tilted, 42")		
Dispensers (towel, soap, etc) at least one of each a maximum 42" above the floor		

FLOORS, DRINKING FOUNTAINS, TELEPHONES

Floors	Facility: Watson Park	Comment/Transition Notes
Non-slip surface		N/A
Carpeting is high-density, low pile, non-absorbent, stretched taut, securely anchored		
Corridor width minimum is 3 ft		
Objects (signs, ceiling lights, fixtures) can only protrude 4" into the path of travel from a height of 27" to 80" above the floor		

Drinking Fountains	Facility: Watson Park	Comment/Transition Notes
Spouts no higher than 36" from floor to outlet		No drinking fountains
Hand operated push button or level controls		
Spouts located near front with stream of water as parallel to front as possible		
If recessed, recess a minimum 30" width, and no deeper than depth of fountain		
If no clear knee space underneath, clear floor space 30" x 48" to allow parallel approach		

Telephones	Facility: Watson Park	Comment/Transition Notes
Highest operating part a maximum 54" above the floor		N/A
Access within 12" of phone, 30" high by 30" wide		
Adjustable volume control on headset so identified		

SIGNS, SIGNALS, AND SWITCHES

Switches, Controls and Signs	Facility: Watson Park	Comment/Transition Notes
Switches and controls for light, heat, ventilation, windows, fire alarms, thermostats, etc, must be a minimum of 36" and a maximum of 48" above the		No switches
Electrical outlets centered no lower than 18" above the floor		
Warning signals must be visual as well as audible		

Signs	Facility: Watson Park	Comment/Transition Notes
Mounting height must be 60" to centerline of the sign		Outside signage for Boat Ramp
Within 18" of door jamb or recessed		N/A
Letters and numbers a t least 1¼" high		No
Letters and numbers raised .03"		No
Letters and numbers contrast with the background color		Yes

SWIMMING POOLS, SHOWER ROOMS & PICNIC FACILITIES

SWIMMING POOLS – accessibility can be via	Facility: Watson Park	Comment/Transition Notes
Ramp at least 34" wide with a non-slip surface extending into the shallow end, slope not exceeding 1:6 with handrails on both sides		No pools
Lifting device		
Transfer area 18" above the path of travel and a minimum of 18" wide		
Unobstructed path of travel not less than 48" wide around pool		
Non-slip surface		

SHOWER ROOMS - Showers must accommo	Facility: Watson Park	Comment/Transition Notes
Stalls 36" by 60" minimum, with a 36" door opening		No shower rooms
Floors are pitched to drain the stall at the corner farthest from entrance		
Floors are non-slip surface		
Controls operate by a single lever with a pressure balance mixing valve		
Controls are located on the center wall adjacent to the hinged seat		
Shower heads attached to a flexible metal hose		
Shower heads attached to wall mounting adjustable from 42" to 72" above the floor		
Seat is hinged and padded and at least 16" deep, folds upward, securely attached to side wall, height is 18" to the top of the seat, and at least 24"		
Soap trays without handhold features unless they can support 250 pounds		
2 grab bars are provided, one 30" and one 48" long, or one continuous L shaped bar		
Grab bars are placed horizontally at 36" above the floor line		

PICNICKING

Facility:

Watson Park

Comment/Transition Notes

A minimum of 5% of the total tables must be accessible with clear space under the table top not less than 30" wide and 19" deep per seating space and not less than 27" clear from the ground to the underside of the table. An additional 29" clear space (totaling 48") must extend beyond the 19" clear space under the table to provide access		No
For tables without toe clearance, the knee space under the table must be at least 28" high, 30" wide and 24" deep		No
Top of table no higher than 32" above ground		Yes
Surface of the clear ground space under and around the table must be stable, firm and slip-resistant, and evenly graded with a maximum slope of 2% in all directions		No
Accessible tables, grills and fire rings must have clear ground space of at least 36" around the perimeter		No