TOWN OF GILL 2021 OPEN SPACE AND RECREATION PLAN



Approved March 31, 2021

Prepared by:

GILL OPEN SPACE AND RECREATION COMMITTEE

AND

FRANKLIN REGIONAL COUNCIL OF GOVERNMENTS PLANNING DEPARTMENT

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This project was funded by a District Local Technical Assistance Grant administered by the Massachusetts Division of Local Services

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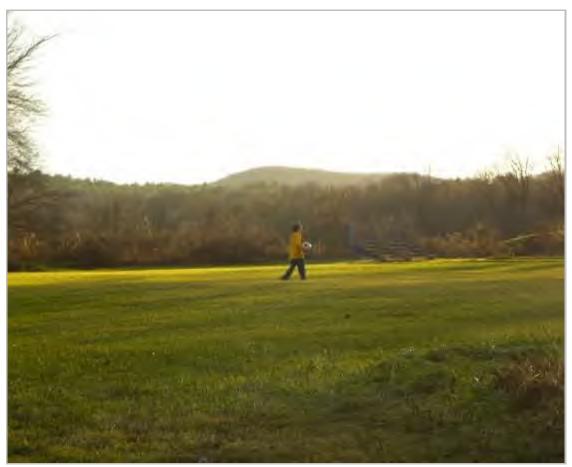
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Section 1: Plan Summary

The 2021 Gill Open Space and Recreation Plan (OSRP) articulates the open space and recreation aspirations of the community. These aspirations include: protecting prioritized open space, forests, and farmland; planning for some development to improve the town's tax base; promoting farms, farm products, and other locally made goods; and improving or adding recreational opportunities for school children and all citizens of Gill. This Open Space and Recreation Plan contains a comprehensive inventory of the town's natural, agricultural, and recreational resources and a plan for their stewardship and protection. The Plan also includes an analysis of the town's needs and a Seven-Year Action Plan designed to guide important decisions about the use, conservation, and thoughtful development of the Gill's land and resources.



The seven-year Action Plan includes open space and recreation goals for present and future generations.

The Seven-Year Action Plan is a roadmap for the implementation of this Open Space and Recreation Plan's goals and objectives. The Action Plan's successful implementation depends upon the ongoing commitment of a permanent Open Space and Recreation Advisory Committee as well as the involvement of dedicated municipal officials and enthusiastic community members.

Section 2: Introduction

The Gill Open Space and Recreation Plan Committee began work with the Franklin Regional Council of Governments in 2017 to update the 2011 Open Space and Recreation Plan (OSRP), which had expired. The Committee was composed of the Gill Administrative Assistant, Town Clerk, and representatives from the town's Conservation Commission, Cemetery Commission, and Energy Commission, as well as a member of the community. The Committee consulted other municipal officials and members of the community for expertise in the areas of agriculture, history, recreation, and property records. The Committee has produced an updated Open Space and Recreation Plan that embodies the town's commitment to protecting and enhancing its cultural, historical, scenic, archeological, and natural resources (including water resources, wildlife habitat, forests and farmlands), while promoting economic development.



One of Gill's many outstanding resources, Barton Cove, provides myriad functions including recreation and wildlife habitat.

Accomplishments

Since 2011, the Town of Gill has accomplished several Open Space and Recreation related goals including:

- Participation in the Connecticut River Streambank Erosion Committee;
- Participation is the FERC relicensing efforts for the Northfield Mountain Pumped Storage Project and Turners Falls Dam;

- Created a Conservation District Zoning Byway; and
- Conducted an ADA Self Evaluation and Transition Plan.

Statement of Purpose

The purpose of this Open Space and Recreation Plan is to provide an accurate and thorough basis for decision-making involving the current and future open space and recreation needs of Gill residents in harmony with appropriate economic development. This Plan brings together and builds upon the planning efforts and accomplishments of the past years including the 2011 Open Space and Recreation Plan, the 2004 Community Development Plan, the 2020 Multi-Hazard Mitigation Plan, and the 2018 ADA Self Evaluation and Transition Plan. It also represents consensus building on the most important community and natural resource needs of the Town and the best solutions for addressing them. The Seven-Year Action Plan, when carried out by the yet-to-be formed Gill Open Space and Recreation Committee and other town boards and commissions, will successfully implement the town's open space and recreation goals and objectives.

Planning Process and Public Participation

The process to update the 2011 Gill OSRP officially began with the kick off meeting in September 2017. Over the next several years, the Committee met eight times. Staff from the Franklin Regional Council of Governments (FRCOG) attended all of these meetings. The FRCOG staff supported the work of several people who contributed to the research and writing of this Plan, including Committees members, the Town Clerk/Assessor, and volunteers. The agendas and sign-in sheets for these meetings are included as Appendix C. An online and paper Public Survey was developed and the results were used to help develop Sections 6 – 9 of this Plan. The Survey and a summary of the Survey results are included as Appendix D.

The OSRP Plan Public Forum was held on December 21, 2020 remotely over teleconference. The forum was advertised using an announcement on Gill's website homepage and emails to town committees. Draft copies of the 2021 Gill OSRP maps were available on the website and attendees were encouraged to review the maps and write down any comments. A copy of Public Forum PowerPoint presentation was also posted on the Town website for attendees to view and for residents not able to attend the forum.

Preceding and following the Forum, copies of the draft maps and sections of the Plan were made available for public comment on line at www.gillmass.org. Comments and corrections received during the public forum and comment period – and throughout the planning process – pertaining to the different sections of the plan, maps and the action steps have been incorporated in the final version of the Gill Open Space and Recreation Plan.

SECTION 3:

COMMUNITY SETTING

The diverse rural landscape of Gill—its rolling hills, river terraces, farmlands, and upland forests—have been developed, utilized, and preserved by its human inhabitants for thousands of

years. Planning for open space and recreational opportunities in Gill must take into account the multifaceted relationships between people and the open spaces and natural resources upon which they and other living beings depend. development occurs without consideration for natural resources such as drinking water supplies or wildlife habitats, the quality of life for current and future generations of Gill residents could be diminished over time.



Verdant farmland bordered by upland forest is a familiar scene in Gill.

Context

Regional Context

Gill is located in western Massachusetts, in the northern part of the Pioneer Valley region in Franklin County, approximately five miles south of the Vermont state line. Gill is situated in close proximity to three major transportation routes: Interstate 91 is two miles to the west, Route 2 runs along the southern portion of town, and Route 10, which accesses I-91 and Route 63 in Bernardston and Northfield respectively, is just north of the Gill town line. Map 3-1: Regional Context at the end of this section shows Gill's location in Franklin County. This proximity allows access to both the north and south as well as east and west travel corridors.

Located in Franklin County, Gill is bounded on the east and south by the Connecticut River and can be accessed easily via Routes 2 and 10. Neighboring towns include Bernardston to the north, Northfield to the east, Erving and Montague to the south and Greenfield to the west. Although Gill offers relatively easy access to nearby employment centers in Greenfield, Montague and Orange, Gill has not been subject to development pressures experienced in other parts of the State.

Two primary landscape types dominate Gill—contiguous forestland and farmlands. Forest covers the majority of Gill. Prime farmland soils are located throughout the Town but concentrated along the Connecticut River. All of Gill is located within the Connecticut River watershed.

Gill is known, in part, for its water resources, particularly Barton Cove on the Connecticut River. Barton Cove draws visitors and residents alike for kayaking, birding, fishing, boating, and camping. Gill is also known for its excellent co-educational boarding and day school, Northfield Mount Hermon. And, in recent years, a revitalization of small, diversified farms has contributed to Gill being known throughout the region for its excellent farm products.

Local Context

Residents of Gill enjoy a wide range of recreational activities in their town including hiking, skiing, snowmobiling, hunting, fishing, and birding. The Gill Town Forest provides access to 162 acres of beautiful forested land which includes hills and eskers, a magnificent pond and river, and tucked away in hidden corners, remnants of historical interest. The Town Forest was established and purchased from the Franklin Land Trust in 2009 and was inventoried for biorichness in 2013. Specifically, the funds were used for identification and marking of boundaries; development of a recreational trail system and kiosks; control of invasive plant species/ habitat res-toration; and controlling unwanted access/dumping.

Barton Cove is a popular spot for water recreation such as kayaking, canoeing, and power boating. Barton Cove Campground, owned by H₂O Power + FirstLight Power Resources, offers a picnic area, tent camping, and canoe and kayak rentals.¹

Gill's Open Space and Recreation Plan aims to support the continued enjoyment of recreational activities and continued land protection efforts.

Natural Resources Context



Early morning mist shrouds distant views at Barton Cove.

In planning for open space and

natural resource protection in the Town of Gill, residents consider the role natural resources play across the region. There are three regional landscape-level natural resources important in both

¹ http://www.h2opower.com/recreation/barton-cove-and-munns-ferry-campgrounds/

Gill and in surrounding communities —contiguous forestland, farmlands, and watersheds. The presence and relatedness of these significant resources present both opportunities and challenges to open space and recreation planning for Gill.

Forestlands

Forests constitute one of the most important natural resources in the Town of Gill and in the region. Forestland conserves water supplies by sustaining the soil's ability to receive precipitation and recharge ground and surface waters slowly. Woodlands and their changing foliage give residents gorgeous surroundings upon which to gaze and appreciate. Forests clean the air and provide cool air currents in warm months.

Large blocks of contiguous forestland that are not traversed or fragmented by paved roads, wide rivers, development, or by open fields are important regional resources for several reasons. Wildlife species that require a certain amount of deep forest cover tend to migrate out of fragmenting landscapes. New frontage lots and subdivisions can often result in a widening of human activity into habitats, an increase in the populations of plants and animals that thrive alongside humans (i.e., raccoons and squirrels) and a reduction in the species that have larger home ranges and unique habitat needs. Larger blocks of forest are more suitable for active forest management as well.

One significant mechanism that can be used to protect forestlands – as well as farmlands and recreational lands – in Gill is Chapter 61. Chapter 61 is comprised of three programs that require cities and towns to reduce assessments of farm, forest and open space lands, provided the owners make a commitment to keep their lands in one or more of those uses. These programs were developed in part due to rising property values, which were forcing farmers and forest landowners to sell their land because of the increasing tax burden.

These programs are known as Chapter 61—the Forestland Act; Chapter 61A—the Farmland Assessment Act; and Chapter 61B—the Recreational Land Act. Many states have similar programs to retain open space but only the three Massachusetts laws give municipalities a "right of first refusal" to purchase lands that have been enrolled in these programs.²

According to Mount Grace Land Conservation Trust's *Land Use Planning under Massachusetts' Chapter 61 Laws*, "most landowners classify their lands in Chapter 61, 61A and 61B to take advantage of reduced property taxes. Many of these lands are woodlots and small farms on the outskirts of expanding urban and suburban areas. As development increases around these properties, taxes rise to cover the costs of expanded town services. Without Chapter 61, 61A and 61B, these increases in taxes would force some landowners to sell their property. Today, many parcels have remained undeveloped as a direct result of the reduced annual property tax bills following enrollment in these programs."

More information on Chapter 61 land classifications can be found on the Town of Gill's website at http://www.gillmass.org/f/24/Guides-for-Land-Classifications. A Forest Stewardship Plan was developed in 2014, and a state Community Forest Stewardship Implementation Grant in the

² http://www.mass.gov/eea/docs/dcr/stewardship/forestry/service/chapter-61-programs.pdf

³ http://mountgrace.org/publications/all

amount of \$7,100.00 was obtained in fiscal year 2017 from the Massachusetts Department of Conservation and Recreation (DCR) to assist in furthering several of the management recommendations and practices identified in the Plan.

Farmlands

Gill has a rich history of agriculture that has contributed to the Town as we know it today. Located in the Connecticut River Valley, much of the land is desirable for farming and contains prime farmland. In the late 18th century, grains – primarily wheat, rye, and barley – were the primary cash crops. By the mid 19th century, broom corn and tobacco had replaced grain as a commodity in Gill and by 1860 Gill had become one of the largest producers of butter and eggs in Franklin County, exporting them as far away as Boston. The more local markets of Greenfield broadened to include markets in Springfield and Athol as well as those north into Vermont and New Hampshire. This came about as railroads developed. Also, lumber products became increasingly important as the farmland was cleared. Milk became a major export after 1900, and after World War II, most dairy farms began consolidating and increasing in size. Subsistence farming, once a way of life for many Gill residents, also declined.



Cattle graze at sunset on a grassy pasture bordered by woodland.

At present, only a few dairy farms remain in Gill, although out-of-town farmers much of the large tracts of river land to grow vegetable crops and forage. currently boasts an active Agricultural Commission, and according to the Commission, the family farm is on the rebound in Gill. In 2011, the Gill Agricultural Commission's Gill Farms: A Guide to Buying Gill Products and Supporting Agriculture in Our Community lists 20 farms – sometimes as little as 5 or 6 acres but crammed with

produce and know-how. Products from these farmers include eggs, herbs, vegetables, flowers, cheese, beef, pork, lamb, rabbits, berries, maple syrup, honey, alpaca fleece. Several have farm stores or farm stands.

In 2009, Gill adopted the Right to Farm Bylaw that essentially guarantees the right of farmers to conduct their agricultural activities as needed, which may include the attendant incidental noise, odors, dust, and fumes associated with normally accepted agricultural practices. Whatever impact may be caused to others through the normal practice of agriculture is more than offset by the benefits of farming to the neighborhood, community, and society in general.⁴ In recognition

⁴ http://www.gillmass.org/files/AgComm Right To Farm Bylaw.pdf

of the importance of agriculture to the Town and in support of local farmers, residents of Gill voted in November 2010 to remove the excise tax on farm animals.

Watersheds

Watersheds are the areas of land that drain to a single point along a stream or river. Subwatersheds contain first and second order stream tributaries. The most extensive component of any watershed, they are also the most sensitive to land use, both the negative impacts of runoff and the positive effects of forest cover. Two of the most important things that result from protecting forestland are maintaining the long-term integrity of wildlife habitats and water quality within the watershed's surface and ground waters. Gill is contained within the Connecticut River Watershed.

The Connecticut River Watershed is the largest river ecosystem in New England and spans four states: Vermont, New Hampshire, Massachusetts, and Connecticut. The river itself forms Gill's eastern border. Fall River forms the town's western border. Along with other brooks and streams, it flows through the town on its way to the Connecticut River. From its beginnings on the Canadian border to its end in Long Island Sound, the Connecticut River drains a landscape that is 11,000 square miles in size, 410 miles long. The river drops 2,400 feet from its source to the sea and is one of the most developed rivers in the Northeast. Entering Massachusetts through the Town of Northfield, it flows through forty-five communities before entering the state of Connecticut. The watershed is eighty percent forested, twelve percent agricultural, three percent developed, and five percent wetlands and surface waters.

The Connecticut River Watershed was designated the "Silvio O. Conte National Fish and Wildlife Refuge" by an act of Congress in 1991, the first refuge of its kind, encompassing an entire watershed ecosystem. The Connecticut River also received special attention in 1998 when it became one of only fourteen rivers in the U.S. designated as a National Heritage River. The Massachusetts Executive Office of Environmental Affairs has outlined watershed priorities for the Connecticut River that include: promoting and/or creation of riparian buffer zones along the waterways within the watershed; reducing barriers to migratory fish passages; reducing the negative effects of non-point source pollution, primarily storm run-off; and increasing the amount of water quality data available within the watershed. See Section 4 – Environmental Inventory and Analysis – for more detail on the Connecticut River Watershed, its tributaries and other water bodies in Gill.

Community History

The Town of Gill with its natural resources has attracted and sustained human settlements for thousands of years. Native Americans frequented the area to fish the waters of the Connecticut River and its tributaries and to farm the rich floodplain soils. European Colonists also used the Connecticut River for transportation, log drives, fishing, and relaxation. It would become of fundamental importance to the industrial development in the area.

Native American presence in the Town of Gill dates as far back as 5,500 B.C. Artifacts from that time period have been unearthed in Gill. There are locations in town where the presence of archaeological remains may limit development options and for which appropriate current uses

have not been determined. The Great Falls area of Gill was a prime fishing area; tribes from as far away as Eastern New York traveled to the area to fish. This same area of the Connecticut River was the site of a brutal massacre of Native Americans by the British under Captain Turner in the King Philip's War (1675-1677). Permanent Colonial settlements were not noted in Gill prior to approximately 1776.

Areas of Settlement

Gill was originally part of Deerfield in the seventeenth century, then part of Greenfield until Gill's incorporation in 1793. Over time, three distinct settled areas developed within the Town of Gill. They include Gill Center, Riverside, and Northfield Mount Hermon as described below.



Located in Gill Center, Gill Tavern – originally the Gill General Store – is a popular area eatery.

Gill Center

Gill was a major crossroads of travel on the western side of the Connecticut River. Organized around a town common, the Gill Center had a number of stores and manufacturing, several taverns as gathering spots and stagecoach stops. A local blacksmith shop, nearby grist mills and a pail factory made the Center a busy place. While fire and changes in industry have removed these landmarks, the Town Common is encircled by a number of historic buildings, including the Gill Meeting House, erected in 1794, establishing Gill's civic center along this main transportation route. Other buildings near and around the Town Common include the Congregational Church (1803), a Federal period home in the style of Asher Benjamin, and also the Town Hall (1867), the Slate Library (1921), and Gill General Store – now The Gill Tavern. This area still remains the focus of Gill's civic and social life and the Gill Town Common continues as a place where concerts, town picnics, and socials are held.

Village of Riverside

Prior to colonial settlement the area now known as Riverside hosted a major regional gathering for Native Americans coinciding with the annual shad run over the Great Falls each spring. In May of 1676, during King Philip's War, colonial militia attacked and killed hundreds of Native Americans at the site of the Peskeompskut village settlement, following which a native counterattack inflicted heavy casualties on retreating colonial troops. Since 2014, the Battle of Great Falls has been the subject of ongoing research funded by the National Park Service's American Battlefield Protection Program and coordinated through a consortium of local towns and Native American tribes.

The Village of Riverside developed on the Gill side of Great Falls on the Connecticut River. A ferry connected Riverside with Montague as early as the 1760s. In 1798, a stone-filled crib dam was built to accommodate locks on the Montague side, allowing river traffic to bypass the Falls. A few farms, homes, and shops were established on the road from Gill Center to the ferry. Village growth accelerated in 1867 when a sawmill was built in Riverside and in 1878 when a suspension bridge was erected between Riverside and Montague. In the mid 1880s, a kindling factory and pulp mill were constructed. The sawmill burned down in 1903, and the pulp mill exploded shortly thereafter.⁵

Riverside declined as a civic and commercial center, however today it remains a residential center - a quiet, peaceful haven of residential homes with a rural, close-knit neighborhood feel. In 2016, the Gill Historical Commission published a comprehensive history of the Riverside area, *Life Along the Connecticut in Gill, Massachusetts*. The Riverside Village Historic District was designated as a National Register District on September, 18, 2017.

Northfield Mount Hermon

The Mount Hermon School for Boys founded in 1881 and The Northfield Seminary for Girls founded in 1879 were both known for their founder Dwight L. Moody. Now called Northfield Mount Hermon (NMH), the school consolidated its two campuses on the Mount Hermon property in Gill in September 2005. NMH is currently a coeducational boarding and day school for 650 students in grades 9 through 12 and postgraduate. NMH is the largest landholder in Gill, owning approximately 640 acres of property primarily in the northeastern portion of town.

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⁵ Landscape and Material Life in Franklin County



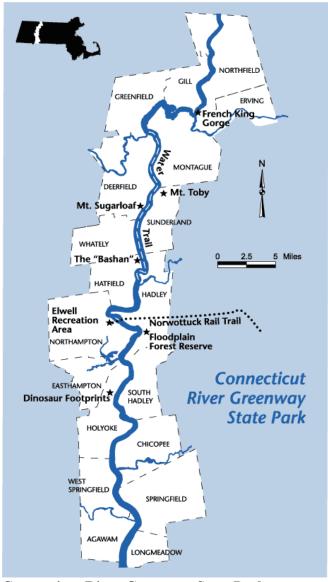
Northfield Mount Hermon's Admission Office stands on the School's 640-acre parcel located in northeast Gill.

The Role of the Connecticut River in the Community's History

The Connecticut River played a prominent role in the history of the Town of Gill. The River has provided fish for food and was the main mode of transportation for Gill residents. Since transporting goods by boat was more efficient than transporting over land, nearly all trade prior to the development of the railroad occurred on or along the Connecticut River. Timber, ice, and farm goods were just a few of the commodities transported via the river to and from the Town of Gill.

In the mid-eighteenth century, river crossings were important factors in a town's economic development and social life. Prior to the bridges, ferries were the primary means of crossing rivers. Gill had three major ferry crossings on the Connecticut River (starting from the south): Smith's, Stacy's and Munn's ferries. Smith's Ferry went out of operation with the installation of the Old Red Suspension Bridge. Munn's and Stacey's Ferries went out of operation in the 1930's due to lack of demand. The Town of Gill owns a one-acre parcel at Stacy's Ferry, which has some potential for development as a small boat launch and recreation site.

Gill has a spectacular, award-winning bridge at French King Gorge between Erving and Gill. The French King Bridge, completed in 1932, received the Annual Merit Award as "the most beautiful steel bridge" from the American Institute of Steel Construction. Recently restored, the bridge is listed on the State Register of Historic Places. In addition, the Turners Falls-Gill Bridge underwent an extensive re-construction in the mid 2000s. There are several other bridges in Gill that are of note.



Connecticut River Greenway State Park

The Connecticut River also delineates one of Massachusetts' newest state parks, the Connecticut River Greenway State Park. As shown in Figure 3-1, the Park connects open spaces, parks, scenic vistas, and archaeological and historic sites along the length of the Connecticut River as it passes through the state.⁶ There are over 12 miles of permanently protected shoreline and numerous access points to the river.

The Role of Route 2 in the Community's History

In 1913, the portion of Route 2 between Erving and the New York State Line was designated as the Mohawk Trail Scenic Auto Route, in honor of the Mohawk Indians who used the trail to travel east and west. As a result of the designation, commercial development began along the route to supply tourists with food, gas, lodging, and souvenirs. Route 2 continues to be the primary commercial and industrial corridor in Gill.

In 2017, the Riverside Historic District along Route 2 was added to the National Register of Historic Places. In 1975, 674 acres of land comprising all of Riverside and parts of Greenfield were designated as an Archaeological District in the National Register of Historic Places.

In 1953, Route 2 between Athol and Williamstown received a Scenic Byway designation. The Mohawk Trail Scenic Byway was one of the earliest Scenic Byways in New England. The corridor is rich in cultural, historic, scenic, natural, archeological, and natural resources. A number of historic villages and structures along the route provide evidence of the Byway's history. The Byway also travels through some of the most beautiful scenic areas in Massachusetts.

Significant stretches of the Mohawk Trail follow the Millers River and cross the majestic Connecticut River. The Mohawk Trail East Scenic Byway Corridor Management Plan contains greater detail on the history and resources of this Byway.⁷ A Scenic Byway designation is

⁶ https://www.mass.gov/locations/connecticut-river-greenway-state-park

⁷ Mohawk Trail East Scenic Byway Corridor Management Plan, FRCOG, June 22, 2009

important to Gill in part because the designation brings with it potential funding on the state and national level.



The French King Bridge, at French King Gorge, offers among the most stunning views along the Mohawk Trail Scenic Byway.

Historical Resources in Gill

Along with the historical resources mentioned earlier in this chapter, other significant historical resources located in Gill include the following:

- Riverside Archaeological District (National Register of Historic Places)
- Bascomb Hollow
- Turners Falls-Gill Bridge
- French King Bridge
- Water power mill sites
- Methodist Church
- Old Bridge Crossing
- Cemeteries:
 - o Center Cemetery
 - North Cemetery
 - West Gill Cemetery
 - o Riverside Cemetery (acquired by the Town in 2016





Gill Centers includes historic structures such as the Slate Library and a federal period home

- Factory Hollow (formerly the main road to Greenfield)
- Capt. Turner Monument
- Old Red Bridge Anchor with armored mudballs
- Riverside Village Historic District (National Register of Historic Places)

Population Characteristics

Demographic Information

A snapshot of Gill's population characteristics shows a town with a slightly declining population over the last twenty years, this after significant population growth in the 1970s and 1980s. Similar to the County's population, baby boomers comprise the largest percent of the population, suggesting a potential for increasing demands for services for the elderly the coming decades. Income rates for Gill residents are similar to those for the County and about two thirds of Gill residents work outside of Gill.

Population and Population Change

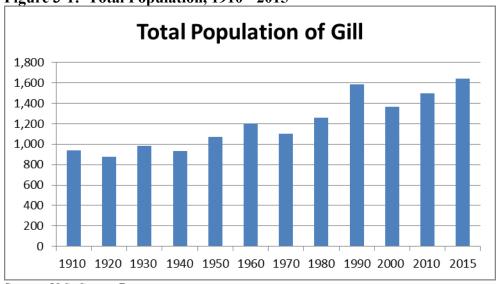
Demographics are useful for forecasting the need for open space and recreational resources that may be required by residents over time. According to the 2010 U.S. Census Redistricting Data, Gill had a population of 1,500 in 2010 (Table 3-1). In 2000, data gathered by municipal officials in the Town of Gill reported the population to be 1,620. This is different from the total population figure of 1,363 that the U.S. Census reported as of April 1, 2000. Gill municipal officials believe the 2000 U.S. Census figure was inaccurate due to miscalculation of staff and faculty housing on the Northfield Mount Hermon campus as well as to a shared zip code with Turners Falls. For the purpose of this Open Space and Recreation Plan, the 2000 and 2010 Census population figures will be used. According to the U.S. Census Bureau's American Community Survey, the population in 2015 is estimated to have been 1,641.

Table 3-1: Total Population, 1970 - 2015

Geography	1970	1980	1990	2000	2010	2015 Estimate**
Gill	1,100	1,259	1,583	1,363*	1,500	1,641
Franklin County	59,223	64,317	70,092	71,535	71,372	71,144
Massachusetts	5,689,377	5,737,037	6,016,425	6,349,097	6,547,629	6,705,586

Source: U.S. Census Bureau – 1970 Census, 1980 Census, 1990 Census STF3A, 2000 Census SF3, and 2010 Census Redistricting Data.

Figure 3-1: Total Population, 1910 - 2015



Source: U.S. Census Bureau

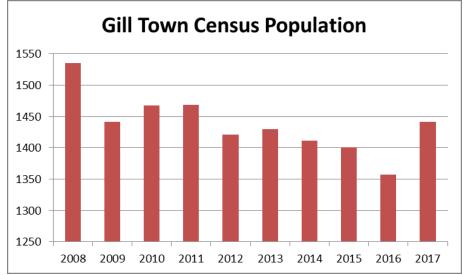
As shown above in Figure 3-1, Gill's population in recent decades has varied, with significant growth in the 1970s and 1980s, and with growth slowing in the last two decades, according to the U.S. Census. From 1970 to 1980, the population in the Town of Gill grew over 14 percent and then grew significantly from 1980 to 1990 by another 26 percent (Figure 3-2). This is dramatically higher than both the County and the State during the same decades. For Franklin County, the rate of population growth was fairly consistent from 1970 to 1980 and 1980 to 1990 with approximately a 9 percent growth rate for each of those time periods. In the 1990s, the Town's population declined by nearly 14 percent, while the County grew by approximately 2 percent, and the State grew by 5.5 percent. Between 2000 and 2010, the Town saw a 10 percent increase in population, while the County's population declined slightly by 0.2 percent and the State population grew modestly by 3.1 percent. Between 2010 and 2015, Gill experienced an estimated 9.4 percent increase in population, compared to a 0.32 percent decline in Franklin County and an increase of 2.4 percent in the State population.

Town officials question the accuracy of the U.S. Bureau of Census population data. Figure 3-2 below shows the Town Census data for the population of the Town of Gill.

^{*}Source: Town of Gill Census 2000 figure was 1,620.

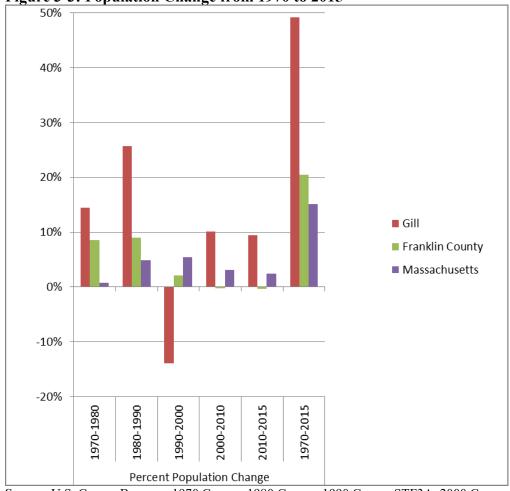
^{**}Source: US Census Bureau, American Community Survey, Five-year Estimates, 2011-2015. In 2015, the Gill Town Census reported a population of 1,401.

Figure 3-2: Gill Town Census Population, 2008-2017



Source: Gill Town Clerk, December 2017.

Figure 3-3: Population Change from 1970 to 2015

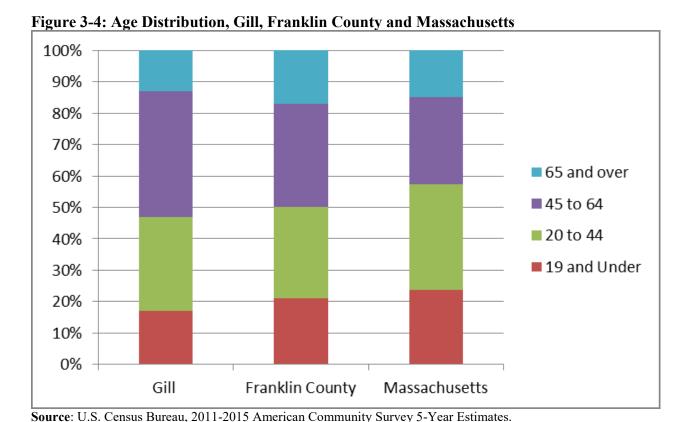


Source: U.S. Census Bureau – 1970 Census, 1980 Census, 1990 Census STF3A, 2000 Census SF3, and 2010 Census Redistricting Data; US Census Bureau, American Community Survey, Five-year Estimates, 2011-2015.

The overall 45-year trend for Gill shows a 49 percent increase in population, larger than both the County and State. This is largely attributable, however, to the large increase in the 1970s and 1980s, culminating in a record high population in 1990. This was followed by a nearly 14% decline by 2000. The trends of the last two decades show Gill's population steadily increasing since 2000. It is important for the Town to determine how these trends translate into demand for open space and recreational resources.

In 2010, Gill's population density was 101 persons per square mile, compared to the neighboring towns of Erving (125 persons per square mile), Northfield (88 persons per square mile), Bernardston (91 persons per square mile), Greenfield (796 persons per square mile), and Montague (269 persons per square mile).⁸

The age make-up of the population is also an important factor when considering open space and recreational needs in Town. As shown in Figure 3-4, in 2015 residents between the ages of 45-64 made up the largest percentage of the Town's population at 40 percent, compared to 33 percent in Franklin County and 28 percent in the State as a whole, according to the U.S. Census 2011-2015 ACS. Also notable is the smaller percentage of children 19 and under in Gill (17 percent) compared to Franklin County (21 percent) and the State of Massachusetts (24 percent).



Section 3 - Community Setting

Gill Open Space and Recreation Plan

⁸ Calculated using 2010 U.S. Census Redistricting Data population counts, and 2005 MassGIS Land Use data

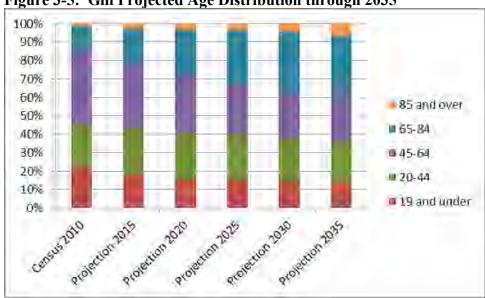


Figure 3-5: Gill Projected Age Distribution through 2035

Source: UMass Donahue Institute Vintage 2015 Population Projections. March 2015.

According to projections developed by the UMass Donahue Institute and shown in Figure 3-5, it is projected that the numbers of children aged 19 and younger in Gill will decrease by 24 percent between 2010 and 2035. During this same period, the 45 to 64 age cohort is estimated to decline by nearly 16 percent. At the same time, it is anticipated that the numbers of residents in the 65-84 age cohort will more than triple by 2035. The oldest cohort of residents (85 years of age and over) is projected to increase by nearly five times over this same period, to represent 6 percent of the overall town population in 2035.

Overall the population of Gill is aging, a trend consistent with the County and the State. The aging population may require different recreational facilities and services including accessible walking paths, arts, and leisure programs. It appears the Town of Gill needs to be concerned about providing for an aging population in its open space and recreation programming, while continuing to provide opportunities for all residents. As Baby Boomers age, they may also require different housing options than are currently available in Town. This demand for new housing could impact the available open space in Gill. The Town should proactively identify the types of housing this population group will need and determine the best locations for development, taking into consideration the needs of an older population while also working to protect open space and natural resources. Planning for growth before it happens will help to protect open space and recreation resources into the future.

Any development of new open space and recreation resources should take into consideration where the current population resides, where any potential new development will occur, and which parts of the local citizenry require specific needs. As shown in the fourth part of Section 3, Growth and Development Patterns, the location of future growth depends in large part on zoning, slopes, soil and groundwater related constraints, and on which lands are protected from development. Proactively identifying key parcels in town that might be future parks and walking trails close to current neighborhoods, and in areas that could be later developed for residential uses, will help ensure these resources are available in the future. Town officials should continue

to look for opportunities to conserve land in Gill that protects valuable scenic and natural resources and provides public access to trail networks and open spaces.

Economic Wealth of Residents and Community

Measures of the income levels of Gill's residents as compared to the county and state are helpful in assessing the ability of the citizenry to pay for recreational resources and programs and access to open space.

Table 3-2: Income and Poverty

Geography	Per Capita Income Estimate	Median Household Income Estimate	Percent of Individuals Below Poverty Level*
Gill	\$32,193	\$73,750	10.3%
Franklin County	\$30,584	\$55,221	11.7%
Massachusetts	\$36,895	\$68,563	11.6%

^{*} For whom poverty status was determined.

Source: American Community Survey 2011-2015 Five Year Estimates. Five-year estimate of income for the past 12 months and reported in 2015 dollars.

Table 3-2 describes the earning power of residents in Gill as compared to the county and the state. The Gill per capita income estimated for 2015 was \$32,193, which was somewhat higher than the county figure of \$30,584, and lower than the state figure of \$36,895. The median household income for Gill was \$73,750in 2015, which was higher than both the county (\$55,221)) and the state (\$68,563). Another way to describe a community's income and economy is the poverty rate. In Gill, 10.3 percent of residents were living below the poverty level in 2015. Gill's poverty rate was less than in the county (11.7percent) and state (11.6percent).

Although Gill's resources include both its people and its natural landscapes, the status of its finances could be affected by an interdependent relationship that exists between the two. The costs of the community services provided to residents are paid for with the tax revenues generated by different kinds of property, both developed and undeveloped. Some developed uses such as housing often require more services including education and road maintenance. The costs associated with one household are rarely paid for by the revenues generated by that same property.

One reason that towns encourage economic development is to have other types of property in town, other than residential, to share the tax burden. Protected open space on the other hand can cost towns very little in community services, provide a modest amount of tax revenues, and reduce the amount of housing that can ultimately occur in town. This relationship is explored in more detail in subsection D. Growth and Development Patterns.

Employment Statistics

Employment statistics like labor force, unemployment rates, numbers of employees, and place of employment are used to describe the local economy. Labor force figures can reflect the ability of a community to provide workers that could be employed by incoming or existing businesses. Unemployment rates can show how well residents are fairing in the larger economy while employment figures describe the number of employees in different types of businesses.



Wagon Wheel Restaurant on Route 2 is a popular small business – and breakfast spot - in Gill.

Employment can be used as a measure of productivity. The number of people employed in each business can be used to determine the types of industries that should be encouraged in town. The town may decide to encourage business development to create more jobs and as a way of increasing taxable property values, which can help pay for municipal services and facilities, including recreational parks and programming as well as protected open space.

Labor Force: Gill Residents Able to Work

The labor force is defined as the pool of individuals 16 years of age and older who are employed or who are actively seeking employment. Enrolled students, retirees, stay-at-home parents and other persons not actively seeking employment are excluded from the labor force. Labor force and unemployment data are available on a monthly and annual basis from the Massachusetts Executive Office of Labor and Workforce Development.

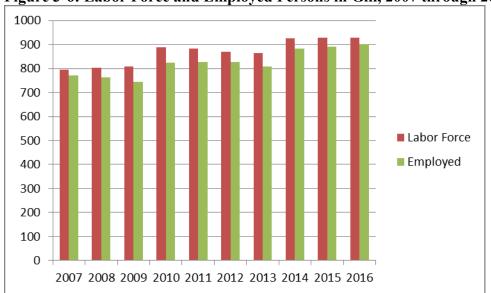


Figure 3-6: Labor Force and Employed Persons in Gill, 2007 through 2016

Source: Massachusetts Executive Office of Labor and Workforce Development, LAUS Data.

In 2016, the Town of Gill had a labor force of 928 with a total of 901 employed persons. These figures have increased consistently over the years since 2007, with a notable reduction in employed persons in 2009 at the height of the Great Recession, as demonstrated in Figure 3-5 above.

Figure 3-7 displays Gill's unemployment rate from 2007 through 2016. In 2016, Gill's unemployment rate was 2.9 percent. This compares favorably with the unemployment rate in Franklin County of 3.3 percent and is slightly lower than the unemployment rate of 3.7 percent in the state of Massachusetts in 2016. The unemployment rate in 2007 of 3.4 percent was similar to the rate in 2016, but as shown in Figure 3-7, the rates have fluctuated over the years with a notable spike in 2009.

Gill Unemployment Rate

Figure 3-7: Unemployment Rates 2007 to 2016

Source: Massachusetts Executive Office of Labor and Workforce Development, LAUS Data.

Employment in Gill: Residents and Non-Residents

The largest employer located within the Town of Gill is the Northfield Mount Hermon School, employing between 250 and 499 employees (Massachusetts Executive Office of Labor and Workforce Development). The next largest employers are Kuzmeskus Realty LLC (bus company) and Travel Kuz, employing between 100 and 249 people. The Gill Elementary School, Gill Fire Department, and Renaissance Builders all employ between 20 to 49 people. It is not uncommon in rural communities for the town government and school to be major employers.

Table 3-3: Worker* Commute Patterns

Geography	Worked in Town of Residence	Worked out of Town but in County of Residence	Worked out of County but in State of Residence	Worked out of State of Residence
Gill	26%	55%	17%	3%
Franklin Co.	29%	71%	34%	5%
Massachusetts	31%	69%	31%	4%
United States	8%	17%	24%	4%

^{*} Employed workers 16 years and over.

Source: U.S. Census Bureau - 2011-2015 American Community Survey (ACS) Five-Year Estimates

According to the 2011-2015 American Community Survey, the percentage of Gill residents in the labor force who worked in town in 2015 was 26%, slightly lower than in Franklin County and the state of Massachusetts, but significantly higher than the United States as a whole. More than half of Gill residents worked outside of Town, but still in Franklin County.

Context and Demographics of Environmental Justice Populations

No environmental justice populations have been mapped in the Town of Gill.

Growth and Development Patterns

Patterns and Trends

Like many towns in Franklin County, Gill's historic land use development patterns can still be seen today. Gill's land use patterns include:

- The more heavily settled Riverside, an area that once supported log drives, sawmills, and the wealthy mill owners of Turners Falls.
- Gill Center, where civic life has always been focused and where the Town Hall and the Slate Memorial Library can be found.
- Working farms and farmland including active dairy farms and Upinngil Farm and Farm Store, Cold Spring Farm and Rolling Edge Sugarhouse, to name a few. Note: The Gill Agricultural Commission has produced *Gill Farms: A Guide to Buying Gill Products* and Supporting Agriculture in Our Community.
- Forest land blankets much of the town and includes active sugarbushes and other forest industries.

Within this land of farms, forests and houses are two major linear elements: the Connecticut River and Route 2. The Connecticut River floodplain contains arable prime farmland soils and is actively farmed by small, diverse farms. Commercial properties are located primarily along Route 2 and on Main Road close to where it intersects Route 2. This trend began in the early part of the 20th Century following the designation of Route 2 as the Mohawk Trail Scenic Auto Route.

Over the past two hundred years, Gill residents developed their community using the productivity of the area's prime farmland soils as well as its proximity to the Connecticut River and the Mohawk Trail. Gill's population went through a series of expansions and contractions between 1800 and 2010. Gill's population in 2000 represented a 97 percent increase of its population in 1800. 2015 Census data puts Gill's estimated population at 1,641. The most rapid growth took place between 1980 and 1990 with a more than 25 percent increase in population. Overall, the 45-year trend for Gill shows a 49 percent increase in population.

Despite the population increase, in the late 1980s Gill experienced a reduction in the number of dairy farms due to several factors including low product prices, high production costs, aging farmers and smaller families, and a federal buy-out program of dairy herds to control pricing. Over the last century, Gill saw a reduction in the number of dairy farms and an increase in the development of residential uses outside of the historic village centers.



Clearly, the conversion of forest and agricultural land to building sites for single-family homes is the dominant land use change in Gill and Western in Massachusetts. Future development patterns in Gill may depend on national and regional employment and population trends but also on local conditions that impact development and land use, such as growing demand for locally grown farm and forest products.

Homes stand adjacent to a rye field in Gill that is permanently protected.

Table 3-4: Land Use Change in Gill, 1971 - 1999

Table 3-4: Land Use Change in Gill, 1971 - 1999				
Land Use	1971 Acres	1999 Acres	1971-1999 Change	
Forest	5,887	5,558	-329	
Water and Wetlands	710	756	46	
Agriculture (cropland and pasture)	1,941	1,789	-152	
Small Lot Residential (< .5 acre)	67	66	-1	
Large Lot Residential (> .5 acre)	449	767	318	
Commercial	7	20	13	
Industrial	0	0	0	
Recreation	102	105	3	
Urban Open Land	156	158	2	
Open Land	129	156	27	
Woody Perennial	19	86	67	
Other (transportation, waste disposal,				
mining)	12	17	5	

Source: 1971 and 1999 MassGIS Land Use data. Totals may not match exactly due to rounding.

Due to changes and improvements in the methods for data collection and analysis, the MassGIS land use datasets for the earlier years of 1971 and1999 are not directly comparable to the 2005 data. Table 3-5 below provides a summary of land uses in Gill in 2005. In 2005, approximately 60% of the total area in town was forested, 17% was in agricultural use, and just over 3% was in residential use, the majority on lots greater than a ½ acre, but also including 30 acres of multifamily residential use. Uses at 1% included high density residential, powerline/utility, open land, and recreation use. Commercial uses represented less than 1% of the total acreage in town and there was no recorded, industrial or mining uses.

According to the Franklin County Cooperative Inspection Program (FCCIP), from 1993 to 2016, 94 residential properties were built in Gill; 13 in 2003 alone (see Figure 3-8 below). Between 1993 and 2002, an average of 4 homes was built each year. In the years from 2004 to 2016, an

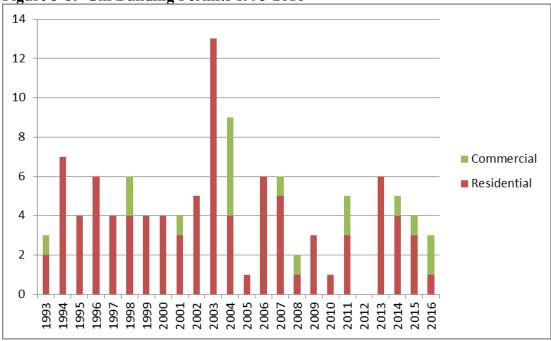
average of 3 homes was built each year. Building permit data provided by the Town for the period from 2002 through 2007 confirms a spike in residential permits in 2009, with an average of 4.8 per year. The high number of commercial permits issued in 2004 includes 2 new dormitories and 2 new modular classrooms at Northfield Mount Hermon.

Table 3-5: Summary of Gill Land Use, 2005

Land Use Category	Acres	Percentage of Total Acreage in Town
Forest	5,730	60%
Agriculture	1,599	17%
Water	676	7%
Wetlands	422	4%
Residential (> .5 acre lots)	397	4%
Open Land	159	1.7%
Urban Public/Institutional	148	1.6%
Recreation	120	1.3%
Powerline/Utility	96	1.0%
Residential (< .5 acre lots)	45	0.5%
Commercial	39	0.4%
Multi-family	30	0.3%
Other (transportation, waste disposal, mining)	17	0.2%
Industrial	0	
Total	9,478	100%

Source: 2005 Massachusetts GIS Land Use data.

Figure 3-8: Gill Building Permits 1993-2016



Source: Franklin County Cooperative Inspection Program, November 2017.

Infrastructure

Transportation Systems

Roads and Bridges

The major transportation routes in and around Gill are:

- Interstate 91, approximately 2 miles west of the town line;
- Route 2, which runs through the southern portion of town; and
- Route 10, which connects Route 63 and I-91.

Route 2 (also known as the Mohawk Trail Scenic Byway) is one of the earliest scenic byways in New England, receiving its designation in 1953. Route 2 safetv improvements in the Gill/Greenfield section are currently being completed as part of the rehabilitation of the Turners Falls-Gill Bridge and additional improvements for this area are in the preliminary planning stage.⁹

The Town has a total of 40.6 miles of road, of which approximately 11.4 are gravel.



Trucks on Route 2 in Gill.

As noted above, the construction of bridges spanning the rivers that form the Town's boundaries played a large role in the historic development of the Town of Gill. There are currently four key bridges that connect Gill to surrounding communities, including: the award-winning French King Bridge, completed in 1932; the Turners Falls-Gill Bridge, which underwent an extensive re-construction in the early 2000s; and two other notable bridges which are currently rated as "structurally deficient." ¹⁰

Transit

There is currently no transit service to or from this area of the county nor are there connections to other transit routes. Previous service was sporadic and based on the Northfield Mount Hermon School schedule, making it difficult for residents to use the route since the days and times of runs were inconsistent. Service was discontinued completely at the end of FY2009.

⁹ 2016 Regional Transportation Plan, FRCOG.

¹⁰ Bridges are considered structurally deficient if they fall below specific thresholds. These bridges may span a range of conditions, from requiring a minor, but vital, repair to a more complete rehabilitation.

The Franklin Regional Transportation Authority (FRTA) provides demand-response transportation services for the elderly and people with disabilities in Gill and the Franklin Transit Management (FTM—the operating company for the FRTA) provides ADA paratransit service..¹¹

One of the largest private bus services in Franklin County—Kuzmeskus—is based in the Town of Gill.

Rail

There are no freight or passenger rail services available in the Town of Gill. The Connecticut River Main Line runs roughly north-south through the abutting towns of Bernardston and Greenfield, transporting both freight and passengers. The Central Vermont Line - New England Central Railroad (NECR) also runs north-south through the Town of Northfield close to the town boundary with Gill. This rail line transports exclusively freight.

Air

The closest airport to Gill in Franklin County is the Turners Falls Municipal Airport, a general aviation facility located in Montague. Other municipal airports are located in the region in the towns of Northampton and Orange. Commercial flights can be obtained at Bradley International Airport, an approximately forty-five minute ride south via I-91 to Windsor Locks, Connecticut.

Pedestrian and Bicycle

Since 1991 and the passage of the federal Intermodal Surface Transportation Efficiency Act (ISTEA), bicycling and walking have been recognized as viable and efficient modes of transportation. Consequently, bicycle and pedestrian facilities are included as a regular part of transportation planning activities on the federal, state, regional, and local levels. Not only are bicycling and walking integral components of the transportation system in Gill and Franklin County, but they are also crucial components that help make the region a livable place. The U.S. Department of Transportation and the Federal Highway Administration have recently focused their attention on the important role these modes of transportation play and the many benefits they provide a community, including: reduction of greenhouse gases and other air pollution, lowered energy costs, less use of land and pavement, increased health benefits for people, economic savings, increased social interactions, and community revitalization.

Recently the FRCOG partnered with the YMCA in Greenfield, Baystate Franklin Medical Center, Greenfield Community College, and the Franklin County Chamber of Commerce to develop and launch Walk Franklin County – for the Health of It! This cooperative program works to promote walking for transportation, reduction of air pollution, and physical fitness and health. The Walk Franklin County – for the Health of It! project is a free program that allows participants to measure and record their walking progress and receive rewards for reaching their walking goals. The FRCOG has completed sets of walking maps for each town in Franklin County, including one in Gill: a flat 2.6 mile round trip walk through Gill Center. A map of the walk is available online at http://www.walkfranklincounty.org/maps.php.

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¹¹ 2016 Regional Transportation Plan, FRCOG.

The Franklin County Bikeway is a project under implementation by the FRCOG with the aim to provide a biking network, with both on-road and off-road facilities, throughout Franklin County, linking employment, recreational, and educational destinations. Routes within Gill include:

- The Greenfield-Montague Loop Route Intermediate/Novice (16.4 Miles) This loop connects the Canalside Trail Bike Path in Montague and Deerfield to the Riverside Greenway Bike Path in Greenfield. The route travels on the outskirts of downtown Greenfield and into Gill to connect these two off-road bike paths.
- Franklin County / Vermont Loop Advanced (16 miles). This loop begins at the Franklin County Bikeway's Greenfield- Montague Route at the intersection of West Gill Road and Hoeshop Road. This route travels into Vermont and loops back south on Pond Road/Scott Road/West Road to Mount Hermon Station Road. This loop is strenuous because of the very hilly terrain.

Franklin County Bikeway maps are available on-line on the FRCOG website at: http://frcog.org/program-services/transportation-planning/

Town officials have seasonal concerns about the pedestrian access between Gill and Montague. This access is not maintained by the MassDOT in winter on the Turners Falls-Gill Bridge.

Water Supply Systems

Except for those living on the Northfield Mount Hermon (NMH) School campus, or in the Riverside area, Gill residents rely on private wells for their water supply. NMH operates its own water supply system. The Riverside Water District manages its own water system and purchases its water from the Town of Greenfield. There is also a public well at Gill Elementary School. Prior to 1976, the Riverside area got its water from a neighborhood spring that is now privately owned and abandoned. Any future potential use of this site would not meet current MassDEP standards for reactivation.

Wastewater Treatment

NMH and Riverside have their own wastewater treatment systems. After discovering that its 1962 sewage lagoon facilities were inadequate during storm events, NMH recently updated its system at a cost of \$2 million. Following a typhoid outbreak in 1957, the Riverside community began to pursue a municipal wastewater treatment facility. After years of debate and discussions over how to pay for it, the project was finally launched in 1976 and was operational by October of 1980. The Town contracts with the Montague Wastewater Treatment Facility to treat sewage from Riverside homes and businesses, utilizing a pipe that runs under the river.

Solid Waste Management

Gill is a member of the Franklin County Solid Waste Management District. Therefore, all residents of Gill can dispose of household hazardous wastes in the fall through their program. Gill residents use the Greenfield transfer station, located at Cumberland Road (off Wisdom Way) in Greenfield. The Town provides curbside pick-up for the Pay-As-You-Throw (PAYT) program, at a cost of \$3 per bag. In calendar 2016, Gill shipped 208 tons of trash and 125 tons of recycling to the Springfield Materials Recycling Facility.

Cable and High Speed Internet

In 2016, the Town of Gill negotiated a new cable license with Comcast that will serve 95-96% of the households in Town.

Turners Falls Hydroelectric Project 12

Key features of the Turners Falls Hydroelectric Project are the Turners Falls Dam and associated impoundment, a gatehouse, a power canal, two generating stations (Station No. 1 and Cabot Station), and a bypassed reach, all owned by FirstLight Power Resources. The Turners Falls Dam consists of two individual concrete gravity dams, referred to as the Gill Dam and Montague Dam, which are connected by a natural rock island known as Great Island. The 630-foot-long Montague Dam is founded on bedrock and connects Great Island to the west bank of the Connecticut River. It includes four bascule type gates and a fixed crest section which is normally not overflowed. When fully upright, the top of the bascule gates are at elevation 185.5 feet mean sea level (msl). The 493-foot-long Gill Dam connects Great Island to the east bank of the Connecticut River, and includes three tainter spillway gates. When closed, the elevation atop the tainter gates is at elevation 185.5 feet msl.

The Turners Falls Impoundment extends upstream approximately 20 miles to the base of TransCanada's Vernon Dam in Vernon, VT. To provide storage capacity for the Northfield Mountain Pumped Storage Project, the Turners Falls Impoundment elevation may vary, per the current FERC license, from a minimum elevation of 176.0 feet msl to a maximum elevation of 185.0 feet msl; a 9 foot fluctuation as measured at the dam. The Turners Falls Impoundment is not a level pool; rather, it is sloped between Turners Falls Dam and Vernon Dam. The slope of the water surface profile steepens as the magnitude of flow increases.

The gatehouse is located on the west of the Connecticut River. It forms the abutment for connecting the Montague spillway with the shoreline and is equipped with headgates controlling flow from the Turners Falls Impoundment to the power canal. The gatehouse houses 14 gates controlling flow to the power canal. The power canal is approximately 2.1 miles long and ranges in width from approximately 920 feet in the Cabot forebay (downstream end of canal) to 120 feet in the canal proper. The power canal has a design capacity of approximately 18,000 cubic feet per second (cfs).

FirstLight has two hydroelectric facilities located on the power canal, including Station No. 1 and Cabot Station. The canal bypasses approximately 2.7 miles of the Connecticut River. Fall River, located near the head of the bypass channel, discharges into the bypass reach. Station No. 1 discharges into the bypass reach approximately 0.9 miles downstream of the Turners Falls Dam. The Turner Falls Project is equipped with three upstream fish passage facilities, including (in order from downstream to upstream): the Cabot fishway, the Spillway fishway, and the Gatehouse fishway. Each of these facilities is associated with the Turners Falls Hydroelectric Project and utilize the power canal to facilitate fish passage.

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¹² The description of the Turners Falls Hydroelectric Project was taken from the following FirstLight Power Resources website: http://www.northfieldrelicensing.com/Pages/Turners.aspx

Long-Term Development Patterns

Land Use Controls

Gill's Zoning Bylaws were last updated in May 2015 and their Rules and Regulations Governing the Subdivision of Land were updated in August 2009. According to the Zoning Bylaws, the Town of Gill is divided into the following types of districts:

- Village Residential (VR)
- Residential (R)
- Residential-Agricultural (R-A)
- Village Commercial (VC)

The Town of Gill Official Zoning Map, located at the end of this section, shows the location(s) of the four districts. The vast majority of land in Gill is zoned Residential-Agricultural, with a minimum developable lot size of 2 acres. The area known as Riverside is the only part of town with Village Residential, Residential and Village Commercial Zoning. Table 3-6 shows the minimum lot size, minimum lot frontage and maximum lot coverage for each district.

Table 3-6: Zoning Bylaws – Excerpt from Dimensional Schedule

District	Minimum Lot Area in	Minimum Lot	Maximum Lot
District	Acres	Frontage in Feet	Coverage*
Village Residential	0.25	100	50%
Residential	2.00	200	50%
Residential-Agricultural	2.00	200	30%
Village Commercial	1.00	150	70%

Along with the Dimensional Schedule, other elements of the Zoning Bylaws¹³ relevant to Open Space and Recreation Planning include:

- <u>Section 6: Conservation Development</u>. The purpose of Conservation Development is, in part, to encourage the preservation of common land for conservation, agriculture, open space, forestry and passive recreational use; to promote more sensitive siting of buildings and better overall site planning; to promote better utilization of land in harmony with its natural features; and to allow more efficient provision of municipal services.
- Section 23: Solar Electric Installations. , Approved by Town Meeting in 2011. The purpose of this bylaw is to facilitate the creation of new Large-Scale Ground-Mounted Solar Electric Installations (greater than 15 kW) by providing standards for the placement, design, construction, operation, monitoring, modification and removal of such installations that address public safety, minimize impacts on environmental, scenic, natural and historic resources and to provide adequate financial assurance for the eventual decommissioning of such installations.
- Section 15: Flood Plain Regulations. The Flood Plain District is established as an overlay to all other districts and limits development to a list of permitted uses in Article V, not including new residential structures. Any use must also be in compliance with Chapter 131, Section 40 of the Massachusetts Generals Laws, with the current state building code addressing floodplain areas, MassDEP's Wetlands Protection Regulations (310 CMR)

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¹³ Town of Gill Zoning Bylaws, http://www.gillmass.org/files/2015-1019 Gill Zoning Bylaws.pdf

10.00), and MassDEP's related requirements for Inland Wetlands (302 CMR 6.00) and Subsurface Disposal of Sanitary Sewage (310 CMR 15, Title 5).

Conservation developments are characterized by common open space and clustered compact lots. The purpose of a conservation subdivision is to protect farmland and/or natural resources while allowing for the maximum number of residences under current community zoning and subdivision regulations. In some cases a greater density (density bonus) may be offered in the local ordinance to encourage this approach to residential development planning. The minimum area of land required for a Conservation Development is ten (10) acres for a subdivision or eight (8) acres for lots on an existing public way which do not require subdivision approval. At least thirty-five percent (35%) of the total parcel of land must be set aside as common land. The minimum required common land may not include wetlands, water bodies, floodplains, land with slopes greater than twenty-five (25%), roadways, and land prohibited from development by legally enforceable restrictions, easements or covenants.

The Zoning Bylaws do not prevent the town's prime agricultural land that is not currently under a conservation or agricultural preservation restriction from being developed for future residential use. Under the current bylaws, much of Gill's land is vulnerable to residential development. To protect the resource that is so vital to Gill's sense of community character - its farm and forestland - the Zoning Bylaws would merit a thorough review with a particular emphasis on protecting farm and forestland.

As part of the Subdivision Regulations the Planning Board, where appropriate, may require reservation of open space for up to three (3) years upon completion of the subdivision to provide an opportunity for the Town to purchase it for open space or recreation purposes. The Planning Board shall not require reservation of more than ten percent (10%) of the gross area of the subdivision for such purposes, and shall not require reservation of areas smaller than four (4) acres, except in extraordinary circumstances.¹⁴

Much of the development that has occurred in Town in recent decades has been along the town's roadways, under the Approval Not Required (ANR) provisions in the state's Subdivision Control Law (M.G.L. Ch., 41, §81P). In reviewing the Rules and Regulations Governing the Subdivision of Land, the community could consider incentives or other methods to more strongly encourage conservation development on appropriate properties that might otherwise be endorsed as ANRs. This recommendation is included as an Action Item in this plan.

Another regulation in place in Gill is the Right to Farm Bylaw, adopted in 2009, discussed earlier in this Section.

Cost of Community Services

The challenge for Gill and other communities is to find a model for growth that protects vital natural resource systems and maintains a stable property tax rate. In designing the model, it is important to understand the fiscal impact of different land uses, which can be calculated based on the relationship of property tax revenues generated to municipal services used. Although protected open space typically has a low assessed value and thus generates low gross tax

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¹⁴ http://www.gillmass.org/files/Planning-Board-SubdivisionRulesRegs.pdf

revenues, municipal expenditures required to support this use are typically much lower than the tax revenue generated.

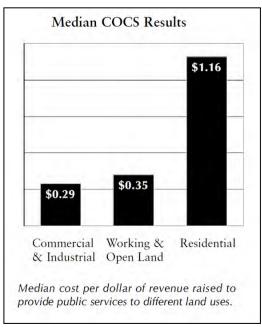
The American Farmland Trust (AFT) and other organizations have conducted Cost of Community Services (COCS) analyses for many towns and counties across the country. A COCS analysis is a process by which the relationship of tax revenues to municipal costs is explored for a particular point in time. These studies show that open spaces, while not generating the same tax revenues as other land uses, require less public services and result in a net tax gain for a community. Residential uses require more in services than they provide in tax revenues compared to open space, commercial, and industrial land uses. Communities, at the time of the study, were balancing their budgets with the tax revenues generated by other land uses like open space and commercial and industrial property.

Figure 3-9 demonstrates the summary findings of 151 COCS studies from around the country. For every dollar of property tax revenues received from open space, the amount of money expended by the town to support farm/forestland was under fifty cents while residential land use cost over a dollar. Taxes paid by owners of undeveloped farm and forestland help to pay for the services required by residential land uses. When a town has few land uses other than residential, homeowners and renters pay the full cost of the services required to run a municipality, maintain public ways, and educate young people. In this way, local property real estate taxes tend to rise much faster in communities that have little protected land and higher rates of residential development.

In 2009, a COCS study was completed for the Town of Deerfield, and may provide a useful local example for Gill. In Deerfield the study found that:

• 79% of fiscal revenue in fiscal year 2008 was generated by residential land, 9% was generated by commercial land, 9% by industrial land, and 3% by farm and open land.

Figure 3-9: Summary of Cost of Community Services (COCS) Studies



Source: American Farmland Trust; 2016. http://www.farmlandinfo.org/sites/default/fil es/COCS 08-2010 1.pdf

• 90% of expenditures were used to provide services for residential land compared with 5% for commercial land, 4% for industrial land, and 1% for farm and open land.

In other words, in fiscal year 2008:

- For each \$1 of revenue received from residential properties, Deerfield spent \$1.14 providing services to those lands.
- For each \$1 from commercial land the town spent 55 cents,
- For each \$1 from industrial land, the town spent 47 cents providing services; and
- For each \$1 received from farm and open land, the town spent 33 cents.

Residential land uses created a deficit of \$1.7 million, while the other three categories generated surpluses: \$573,397 from commercial, \$608,422 from industrial, and \$318,842 from farm and open land. While residential land use contributes the largest amount of revenue, its net fiscal impact is negative.

These findings support open space and farmland preservation, and commercial and industrial development, as a way to help towns balance their budgets. The studies are not meant to encourage towns and cities to implement exclusionary zoning that seeks to make it difficult to develop housing, particularly for families with school age children, who require more in services.

The long-term impacts of these strategies need to be considered. Patterns of commercial and industrial uses vary considerably between towns but all communities need to consider the impact of commercial and industrial development on the overall quality of life for residents. Increased industrial development could generate jobs as well as an increased demand for housing in town. Permanently protecting a large portion of the town's open space and farmland from development could provide locally grown food and jobs, but may also jeopardize the ability for future generations to determine the best use for the land. It also can increase the cost of the remaining available land, making affordable housing development more difficult.

Additionally, the current capacity of different services in town is a key factor when considering what types of development to encourage. If a community is near or at capacity for services such as police, fire, water, roads, or schools, any additional population growth could be quite costly as these services would need to be expanded. However if a community has an excess in service capacity in these areas, new residential growth would not necessarily be a strain on the town's budget. In a climate of declining school enrollment, while acknowledging that home owners with children cost the town more than they pay in taxes, a community might determine that they want to attract families with children in order to maintain a valued community school.

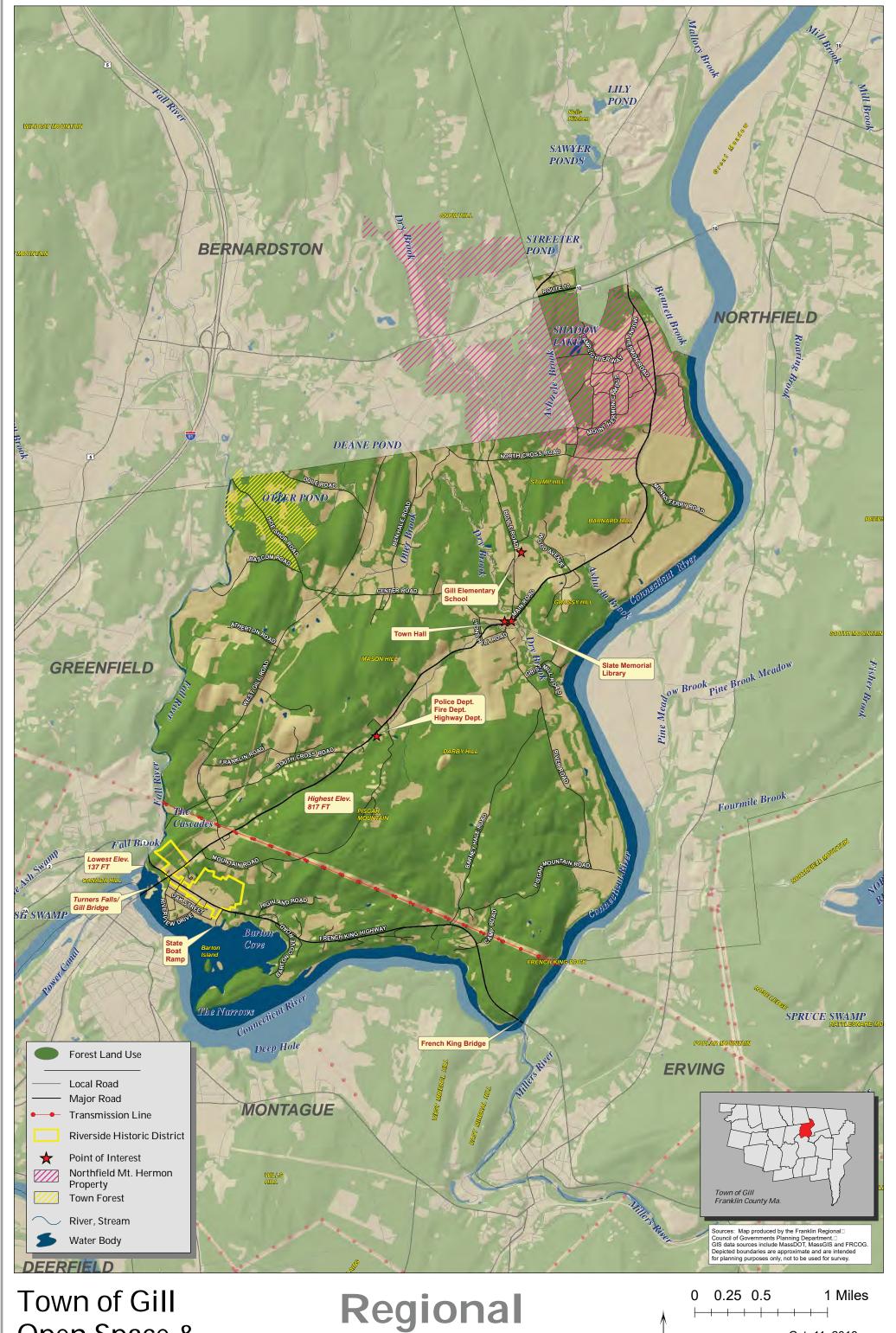
The best types of commercial and industrial development to encourage in Gill might have some of the following characteristics: locally owned and operated; in the manufacturing sector; being a "green industry" that does not use or generate hazardous materials; businesses that add value to the region's agricultural and forest products; and businesses that employ local residents. It is also important to consider that successful commercial and industrial development often generates increased demand for housing, traffic congestion and some types of pollution. Therefore, the type, size, and location of industrial and commercial development require thorough research and planning.

The 2004 Gill Community Development Plan mapped development constraints, including prime farmland and permanently protected open space. One noticeable pattern relevant to development patterns is a significant area of prime farmland that is located in the northeast area of Town, as well as along the Connecticut River on the eastern border of Town. Another pattern is a large area of permanently protected open space in the southeast area of Town. The Plan's goals and objectives encouraged commercial development in selected areas of the Route 2 corridor that are

¹⁵ Cost of Community Services Studies: Making the Case for Conservation. Julia Freedgood, 2002.

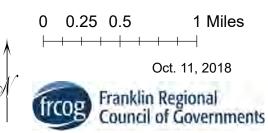
compatible with residential and recreational uses and the examination of other locations to determine if there are areas suitable for commercial and/or light industrial development.

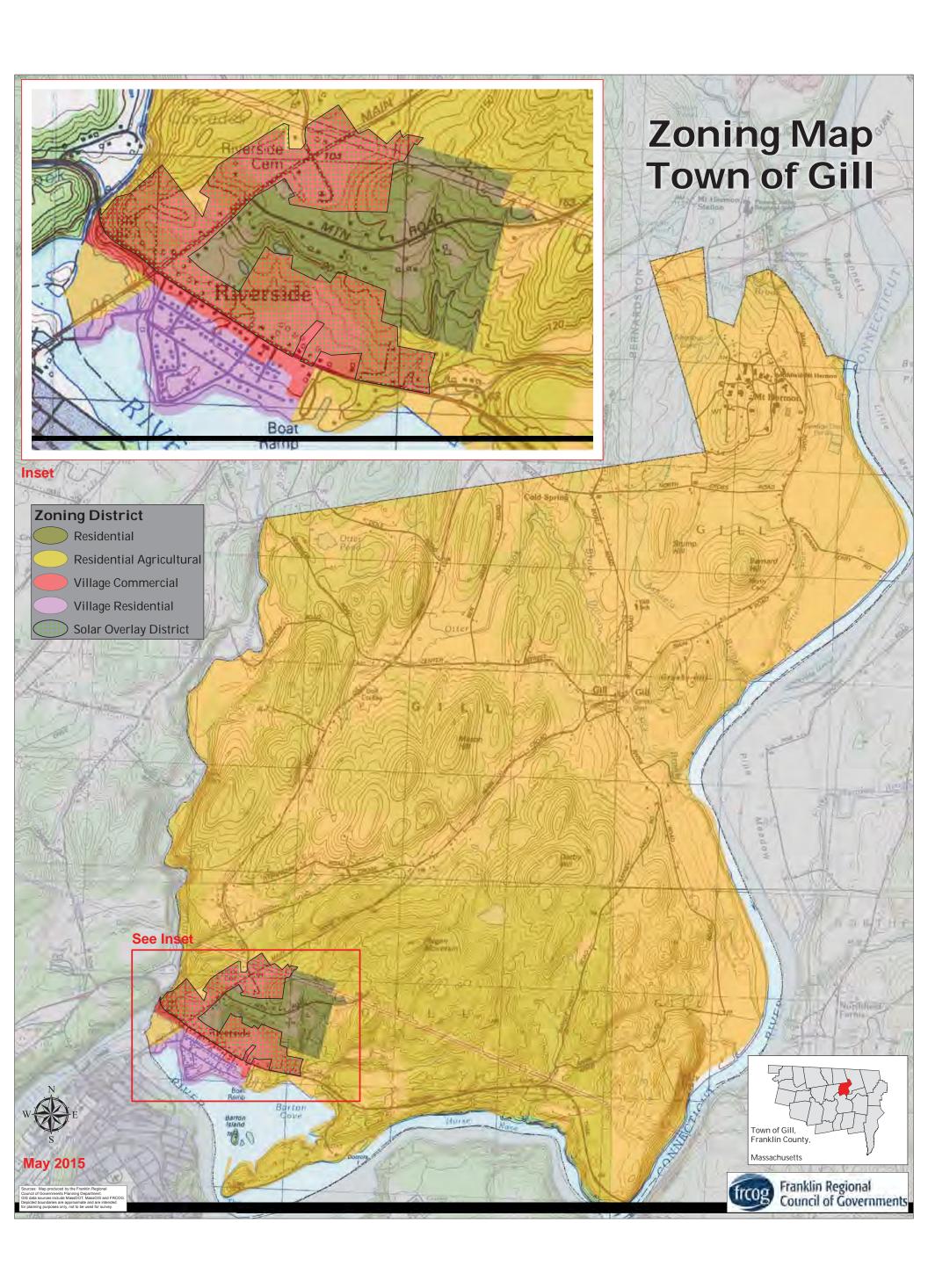
For Gill, an approach that encompasses both appropriate business development and conservation of natural resources will best satisfy the desires of residents to maintain their community character while offsetting the tax burden. Thinking about patterns on a more regional basis could help the Town in a goal of conserving large blocks of contiguous forestland, as well as permanently protected open space, prime farmland and other vital resources. By continuing to pursue growth management strategies that include active land conservation and zoning measures that balance development with the protection of natural resources, Gill will be able to sustain and enhance the community's rural village character and help to maintain a high quality of life for residents.



Town of Gill Open Space & Recreation Plan 2020

Regional Context





SECTION 4: ENVIRONMENTAL INVENTORY AND ANALYSIS

This section explores the biological and physical components of some of the town's ecosystems. These components include soils, surface and ground water, vegetation, fisheries and wildlife. *Geology, Soils, and Topography* provides a general understanding of the ways different soil characteristics can impact land use values. *Landscape Character* provides an overall scenic context. *Water Resources* describes all of the water bodies in town, above and below ground, including their recreational value, public access, and any current or potential quality or quantity issues. In the subsection *Vegetation*, Gill's forest, farmland, and wetlands are documented and in *Fisheries and Wildlife*, wildlife, habitat, special corridors, and rare, threatened, and endangered species are discussed. Gill's *Scenic Resources and Unique Environments* are identified. Finally, *Environmental Problems* addresses current and potential problems that may influence open space or recreation planning.

The natural resources and scenic landscapes of the Town of Gill have been cherished by residents for generations. This Open Space and Recreation Plan is intended to help residents protect the town's scenic value and natural resources in the face of potential increasing development and changes in land use, while recognizing that people need places to live, learn, work and play. These needs – when sited in areas previously unsettled rather than as infill in existing developed areas – can require infrastructure such as homes, roads, power, water, and wastewater systems. These collective needs, in turn, depend upon and impact critical natural systems. One way to understand the impact of development on natural resources is to understand the ecosystem of the town and the region.

A. ECOSYSTEMS AND MAPPING

An ecosystem is a geographically specified system of organisms, including humans, their environment, and the processes that control their dynamics. Ecosystems involve complex connections between organisms and their environment, and the processes that drive the system and can occur at different scales.¹ A large forest and a decayed tree trunk are both examples of ecosystems. The health and function of ecosystems depend on the relationship between living beings and their environment.

Ecosystems provide a variety of "services" that are very important to human communities. Wetlands, for example, filter rainwater, store floodwaters, recharge water to groundwater aquifers, and provide habitat for many aquatic plant and animal species. All ecosystems are vulnerable to any changes to the environment, whether naturally occurring or human made. Understanding the complexity of the systems in which we live can help Gill residents to consider the impact of actions and land uses on the environment and on their quality of life.

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¹ http://ecosystems.noaa.gov/what eco.htm

A.1 Documenting and Mapping Ecosystems: BioMap2

Just as the Town of Gill contains multiple and varied ecosystems, the state of Massachusetts, while relatively small, has many diverse ecosystems and habitats. Documentation and mapping of such ecosystems and habitats – and their associated flora and fauna – can be a first step toward protecting and preserving these resources.

To that end, in 2010 The Massachusetts Department of Fish and Game and The Nature Conservancy launched *BioMap2: Conserving the Biodiversity of Massachusetts in a Changing World.*² This project, produced by the Natural Heritage and Endangered Species Program (NHESP), is a comprehensive biodiversity conservation plan for Massachusetts, and endeavors to protect the state's biodiversity in the context of projected effects of climate change.

BioMap2 combines NHESP's 30 years of rare species and natural community documentation with the Division of Fish and Wildlife's³ 2014 State Wildlife Action Plan (SWAP). It also integrates The Nature Conservancy's assessment of ecosystem and habitat connections across the State and incorporates ecosystem resilience in the face of anticipated impacts from climate change. Note: *BioMap2* data replaced former BioMap and Living Waters data.

Figures 4-1 and 4-2 and Table 4-1 show the core findings summed up in *BioMap2's* Executive Summary.

Figure 4-1: Core Habitat Statewide Summary

Core Habitat: Core Habitats consists of 1,242,000 acres that are critical for the long-term persistence of rare species and other Species of Conservation Concern, as well as a wide diversity of natural communities and intact ecosystems across the Commonwealth. Core Habitat includes:

- Habitats for rare, vulnerable, or uncommon mammal, bird, reptile, amphibian, fish, invertebrate, and plant species;
- Priority Natural Communities;
- High-quality wetland, vernal pool, aquatic, and coastal habitats; and
- Intact forest ecosystems.

Figure 4-2: Critical Natural Landscape Statewide Summary

Critical Natural Landscape: Critical Natural Landscapes (CNLs) consists of 1,783,000 acres complementing the Core Habitats, including large natural Landscape Blocks that provide habitat for wide-ranging native species, support intact ecological processes, maintain connectivity among habitats, and enhance ecological resilience. The areas include buffering uplands around coastal, wetland and aquatic Core Habitats to help ensure their long-term integrity. CNLs, which may overlap with Core Habitats, include:

- The largest Landscape Blocks in each of 8 ecoregions; and
- Adjacent uplands that buffer wetland, aquatic, and coastal habitats.

² http://www.mass.gov/dfwele/dfw/nhesp/land protection/biomap/biomap home.htm

³ http://www.mass.gov/dfwele/dfw/

Table 4-1: BioMap2 Statewide Summary Total Acres and Acres Protected

	Total Acres	Percent of State	BioMap2 Acres Protected
Core Habitat	1,242,000	24%	559,000
Critical Natural Landscape	1,783,000	34%	778,000
BioMap2 Total (with overlap)	2,092,000	40%	861,000

A.2 Documenting and Mapping Ecosystems: NHESP Priority Habitats

Priority and Estimated Habitats is a program administered by NHESP. Identification and mapping of Priority and Estimated Habitats is based on the known geographical extent of habitat for all state-listed rare species, both plants and animals, and is codified under Massachusetts Endangered Species Act (MESA). Habitat alteration within Priority Habitats is subject to regulatory review by the Natural Heritage & Endangered Species Program. Priority Habitat maps are used for determining whether or not a proposed project must be reviewed by the NHESP for MESA compliance.⁴

A.2.1 Benefits of BioMap2 and NHESP Priority Habitats

On the statewide level, mapping Core Habitat and Critical Natural Landscapes helps to guide strategic conservation to protect those areas that are most critical to the long-term survival and persistence of rare and other native species and their related habitats and ecosystems. On the local level, Gill can use this information to better understand where the Town's ecosystems and habitats fit into the bigger picture. For example, a seemingly insignificant parcel of land could be a key link to two larger, intact ecosystems. BioMap2 can help the Town of Gill look beyond its municipal boundary to plan for open space and recreation needs.

On an individual landowner level, BioMap2 – as well as NHESP Priority and Supporting Habitats – is an important tool that can be used to apply for grants to help improve, manage and monitor certain lands. An example is the Mass Wildlife Landowner Incentive Program, which helps fund efforts to maintain grasslands and create areas of young tree and shrub growth (early woodlands) to enhance wildlife habitat, with preference given to land that is classified as or nearby NHESP areas.

Information and mapping from BioMap2 and NHESP Priority Habitats will be referenced throughout this section on Environmental Inventory and Analysis. BioMap2 Core Habitat and Supporting Natural Landscapes, and NHESP Priority Habitats, are shown on the Soils and Environmental Constraints Map at the end of this section.

⁴ http://www.mass.gov/dfwele/dfw/nhesp/regulatory review/priority habitat/priority habitat home.htm

B. CLIMATE CHANGE

In 2011, the Massachusetts Executive Office of Energy and Environmental Affairs issued the *Massachusetts Climate Change Adaptation Report*.⁵ Climate change will result in potentially profound effects on the economy, public health, water resources, infrastructure, coastal resources, energy demand, natural features, and recreation throughout the state. The issue of climate change, and in particular climate change adaptation, is complex. The impacts of climate change will vary not only geographically but also temporally—some of the impacts may not be felt for another 30 years or further in the future, while others are already upon us. When considering land conservation strategies and suitable sites for recreation facilities, climate change adaptation and resiliency should enter into the decision-making process of the town.

The Nature Conservancy (TNC) released a report in 2013 entitled "Resilient Sites for Terrestrial Conservation in the Northeast and Mid-Atlantic Region." According to the Introduction of the TNC report, climate change is expected to alter species distributions. As species move to adjust to changing conditions, federal, state and local agencies and entities involved in land conservation need a way to prioritize strategic land conservation that will conserve the maximum amount of biological diversity despite shifting species distribution patterns. Current conservation approaches based on species locations or on predicted species' responses to climate, are necessary, but hampered by uncertainty. TNC states that it offers a complementary approach, one that aims to identify key areas for conservation based on land characteristics that increase diversity and resilience. The central idea of this project is that by mapping key geophysical settings and evaluating them for landscape characteristics that buffer against climate effects, conservationists can identify the most resilient places in the landscape.

The Nature Conservancy's resilience analysis aims to identify the most resilient examples of key geophysical settings (landscapes) to provide conservationists with locations where conservation is most likely to succeed over centuries. The Massachusetts Division of Conservation Services' Landscape Partnership Grant Program, which seeks to preserve large, unfragmented, high-value conservation landscapes, including working forests and farms of at least 500 acres in size, specifically references the TNC report and mapping.⁷

Annual precipitation averaged around 46" between 1971 and 2000 in the Connecticut Basin, which encompasses the entire Town of Gill. Precipitation in the winter season is expected to experience the greatest change between now and the end of the century, with an increase of 1-25% by mid-century (up 6 inches more by the 2050s), and of 7-37% by end of century (potentially increasing more than 8 inches by the 2090s). Annual and seasonal projections for consecutive dry days, or for a given period, the largest number of consecutive days with precipitation less than 1 mm (~0.04 inches), are variable throughout the 21st century.

Section 4 – Environmental Inventory and Analysis

⁵ http://www.mass.gov/eea/air-water-climate-change/climate-change/climate-change-adaptation-report.html ⁶https://www.conservationgateway.org/ConservationByGeography/NorthAmerica/UnitedStates/edc/reportsdata/terre strial/resilience/Pages/default.aspx

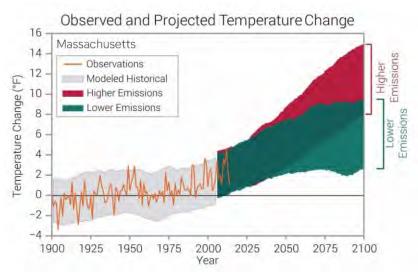
⁷ http://www.mass.gov/eea/grants-and-tech-assistance/grants-and-loans/dcs/grant-programs/landscape-partnershipprogram.html

⁸ Massachusetts Climate Change Projections 2017, Northeast Climate Science Center, UMass Downscaled Projections for Major Basins in MA. www.resilientma.org.

Seasonally, the fall and summer seasons are expected to continue to experience the highest number of consecutive dry days. The fall season is expected to experience an increase of 0-3 days in consecutive dry days by the end of the century.

Climate projections for Massachusetts indicate that in future decades, winter precipitation could increase, but by the end of the century most of this precipitation is likely to fall as rain instead of snow due to warmer winters. There are many human and environmental impacts that could result from this change including reduced snow cover for winter recreation and tourism, less spring snow melt to replenish aquifers, higher levels of winter runoff, and lower spring river flows for aquatic ecosystems.⁹

Between 1971 and 2000, the average annual temperature was 47 degrees Fahrenheit. Average temperatures ranged from 25 degrees Fahrenheit in winter to about 68 degrees in summer. The Connecticut basin is expected to experience increased average temperatures throughout the 21st century. Maximum and minimum temperatures are also expected to increase throughout the end of the century. These increased temperature trends are expected for annual and seasonal projections. Seasonally, maximum summer and fall temperatures are expected to see the highest projected increase throughout the 21st century, but minimum winter and fall temperatures are also expected to increase throughout the 21st century.¹⁰

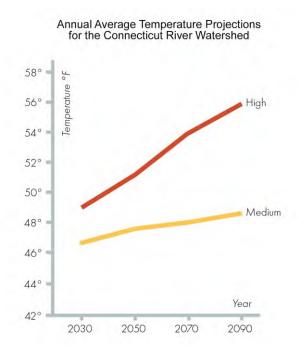


The above graph demonstrates temperature changes in the State of Massachusetts between the years 1900 and 2100. Temperature projections for the rest of the 21st century are based on models used by the International Panel on Climate Change (IPCC) and two scenarios of future greenhouse gas emissions: 'medium' and 'high.' A 'medium' scenario (shown in the graph as "Lower Emissions") assumes a peak in global greenhouse gas emissions around 2050, which then declines rapidly over the second half of the century due to carbon reduction efforts. A 'high' scenario assumes a "business as usual" continuation of the current emissions course. These scenarios represent different pathways that society may or may not follow, to reduce emissions

10 Ibid.

⁹ Ibid.

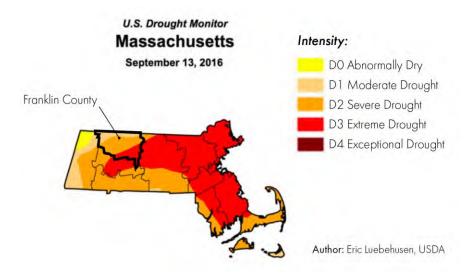
through climate change mitigation measures. For more information, see http://resilientma.org/resources/resource::2152



The temperature projections shown in this graph have been localized to accuracy at the watershed scale, by researchers from the Northeast Climate Science Center at the University of Massachusetts, Amherst. These highly valuable projections demonstrate how the climate is likely to transform in the Connecticut River Watershed over the course of the 21st century, based on climate models used by the IPCC and 'Medium' and 'High' emissions scenarios, as defined above. See http://resilientma.org/resources/resource::2152 for more information.

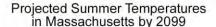
In the summer of 2016, Massachusetts was gripped with the worst drought conditions in recent memory. The prolonged period of warm, dry weather served as a stark reminder of how residents, communities, and industries

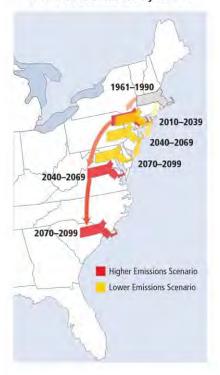
depend upon the Commonwealth's fresh water resources. On September 21 of that year, the U.S. Department of Agriculture designated Franklin County, along with most other parts of the state, as primary natural disaster areas due to the ongoing drought and its effect on agriculture. During the summer of 2020, the state once again experienced a drought and reached Severe Drought Conditions. A small projected decrease in average summer precipitation could combine with higher temperatures to increase the frequency of episodic droughts in the future.



Droughts will create challenges for local water supplies by reducing surface water storage and the recharge of groundwater supplies, including private wells. Droughts can weaken tree root systems, making them more susceptible to topping during high wind events. More frequent droughts can also exacerbate the impacts of

flood events by damaging vegetation that could otherwise help mitigate flooding effects. (http://resilientma.org/resources/resource::2152)





Changes in average summer heat index will strongly alter how summer feels to residents in the Northeast. Red arrows in the above map track what summers in Massachusetts could feel like over the course of this century if we follow a higher emissions pathway. Yellow arrows track what Massachusetts could feel like on a lower emissions pathway. Source: Union of Concerned Scientists (2006).

The growing season (last frost in spring to first frost in fall) has roughly extended from May 8 to October 1, but varied greatly with topography. The long-term average historically is 146 days.

Changing weather patterns have already begun to affect the frequency, intensity, duration and geographic extent of extreme weather event. As the weather continues to change over the coming decades, we can expect to see the following effects:

- Higher temperatures
- Shorter winters
- ❖ More frequent & intense storms
- Droughts

The number of days with temperatures over 90° are predicted to increase. Annually, the Connecticut basin is expected to see days with daily maximum temperatures over 90°F increase by 10 to 35 more days by mid-century, and 15 to 76 more days by the end of the century. Seasonally, summer is expected to see an increase of 8 to 30 more days with daily maximums over 90°F by mid-century. By end of century, the Connecticut basin is expected to have 12 to 60 more days over 90°F. Increased demand could strain energy infrastructure and increase the potential for widespread brownouts or blackouts to disrupt service. Higher temperatures will likely require more frequent maintenance to address deterioration of asphalt roads, buckling of railroad tracks, and thermal expansion of bridges.

Between 1971 and 2000, our region experienced an average of 7 days with precipitation over 1". By the end of the century, it is predicted that Western Massachusetts could have 5 additional days of rainstorms that dump over 1 inch of rain over the course of the year. On October 29 and 30, 2017, Franklin County experienced 2+ inches of rain and 40 to 50 mph winds due to moisture associated with the remnants of Tropical Storm Philippe, causing localized flooding and downed power lines.

In terms of observed increase in very heavy precipitation: between 1958 to 2012, New England experienced a striking increase of 71% over this period, nearly twice the next highest increase of 37% in the Midwest.

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¹¹ Ibid.

Previous climate studies have been based on the premise that the extreme rainfall series do not change through time. Therefore it is assumed that older analyses reflect current conditions. Recent analyses show that this is not the case, particularly in New York and New England where the frequency of 2 inch rainfall events has increased since the 1950s and storms once considered a 1 in 100 year event have become more frequent. Such storms are now likely to occur almost twice as often. ¹² Environmental effects that are anticipated to result from increased precipitation include:

- Flooding
- Erosion
- Impacts to water quality and quantity
- Loss of species diversity
- Invasive pests and plants
- Wetland soils becoming less absorptive
- ❖ More stormwater runoff, and less groundwater recharge

The drought of 2016 and 2020 were reminders of the widespread impacts droughts can have on our region. In addition to impacting the water quality and quantity of rivers, streams and other water bodies, drought can fuel wildfires. In Gill, there were 5 brush fires reported in 2016, the highest number for any one year since 2010.

The health of the town's natural resources directly affects the climate change resiliency of the municipal infrastructure, public safety and economic and physical welfare of watershed residents. Societal risks associated with changing weather include:

- Heat-related illness and death
- ❖ Danger from storms & flooding
- Insect-borne diseases
- ❖ Allergies & Pollen
- ❖ Waterborne disease & algal blooms
- Vulnerable populations

Maintaining healthy and intact wetlands, floodplains, riparian corridors, forests and other vegetated open spaces will help to mitigate the impacts from severe storm events and flooding. To assist with this, Gill has applied for a Municipal Vulnerability Preparedness (MVP) Planning Grant and if awarded will be able to address climate change impacts and improved the town's resiliency. In addition, the town has updated its Multi- Hazard Mitigation Plan in 2020, which evaluates the town's risks from various hazards such as flooding and hurricanes and recommends ways to minimize the damages to Gill's infrastructure, as well as its natural, cultural, and historic resources.

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¹² Northeast Regional Climate Center (NRCC) and Natural Resources Conservation Service (NRCS), Cornell extreme precipitation tool: http://precip.eas.cornell.edu/

C. Geology, Soils, and Topography

C.1 Geology¹³

The Town of Gill as we know it today is the result of millions of years of geologic history such as great upheavals of the earth's crust and the sculpting power of moving water, ice and wind. This distinctive physical base has determined the distribution of the town's water bodies, its soils and vegetation and its settlement patterns, both prior to and since colonial times. Gill's current landscape can be better understood through its geologic history.

500,000,000 years ago, the area now known as Gill, Massachusetts, was located on the margin of an enormous land mass centered on the equator. Much of North America, including New England, was covered by the Iapetus Ocean, the precursor to the Atlantic Ocean. There were no cell phones and no people, but there were jawless fishes, the first vertebrates with true bones. Over the course of time, this ancient "paleo" North American continent, known as *Laurentia*, would travel far and be transformed numerous times by cataclysmic geological processes.

The Connecticut River Valley of 2018 is the result of these literally earth-shaking events, which have been thoroughly studied by geologists and other scientists. The geology of Gill, while sharing much in common with the surrounding region, has several notable features that make it an exciting place to explore. Many of these are to be found in the Riverside section of town, bounded by the Connecticut River. The River's varied course over time directly reflects the area's geological history.

Multiple Orogenies—500 to 250 million years ago (mya)

The process of mountain formation, particularly by the folding of the earth's crust, is called an *orogeny*. It is driven by the slow but steady movement of tectonic plates on which continental landmasses float as the plates collide and separate. Several distinct orogenies occurred during a vast stretch of time, which roughly coincides with the Paleozoic Era. Each left its mark on the northeast region.

<u>Taconic Orogeny</u>: During the Ordovician Period, the Bronson Hill Plate, which began as an island chain of volcanoes ("tropical terranes"), collided with the eastern margin of Laurentia (North America). The result, by the end of the Ordovician, was the Taconic Mountains of western Massachusetts. Several researchers cite evidence that another plate, the Shelburne Falls Arc, may have collided earlier with Laurentia. One or both of these plates became the main ancestral bedrock beneath the Connecticut River Valley.

<u>Appalachian Orogeny</u>: This great mountain building event consisted of several distinct waves, with the Acadian Orogeny to the north being followed by the Alleghenian Orogeny further south. As enormous crustal plates continued to converge and drive a string of great landmasses towards Laurentia, the first, named *Baltica*, crashed into its eastern margin. Several smaller microcontinents, named Merrimack, Nashoba, and Avalon, followed suit. Their collective uplifting

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¹³ The material in this section was reprinted with permission from the Gill Historical Commission from its 2016 publication entitled *Riverside: Life Along the Connecticut in Gill.* Ivan Ussach, former GHC Chair, authored the section. Footnotes have been removed; resources cited are included in Section 11: Bibliography.

formed the Acadian Mountains and created, as Professor Richard Little notes in his book *Dinosaurs, Dunes, and Drifting Continents*, "the folding, faulting, metamorphism and melting that results in New England's notoriously complicated geology."

These collisions were followed 100 million years later by Meguma and Gondwana, the latter composed of Africa, South America, Antarctica, India, and Australia. Little views this succession of events "like having an economy car pile-up that was then rammed by a tractortrailer." Subsequent erosion over eons washed away much of these Northern Appalachians as sediment and flattened the landscape.

Gondwana, the great southern supercontinent, continued to push, creating the Central and Southern Appalachians. These events also affected New England. Little quotes J. W. Skehan, author of *Roadside Geology of Massachusetts* (2001): "It appears that the Alleghenian mountain building event may have been one of the more widespread and complex events in southern New England, involving renewed compression and overthrusting." By the end of the Paleozoic, great mountains had formed, the Iapetus Ocean had closed, and the world's great landmasses had fused into the supercontinent of Pangaea. Gill was located somewhere near the middle of Pangaea.

The Valley: Creation and Disappearance—250 mya to 66 mya

Several million years of tremendous pressure and energy generated by the consolidation of the Pangaea supercontinent heated and expanded the roughly 2,000-mile thick mantle layer below the earth's surface. This caused the overlying continental crusts to uplift, split, and start sliding away from each other. Africa and Europe now began to drift away from the North American mainland. These massive stresses created rift valleys bounded by steep-sloped hills. The original, ancient Connecticut Valley, one of many rift valleys along the eastern seaboard from the Grand Banks to Florida, was created in this way by the Eastern Border Fault, a series of parallel breaks running north through all of Connecticut and Massachusetts and terminating near Keene, New Hampshire.

The location of the Border Fault is most dramatically seen from Riverside by walking to the center of the French King Bridge, which crosses the Connecticut River on Route 2, and facing north. To the west side of the River are 250 million-year-old sedimentary rocks, while those to the east are metamorphic rocks dating to 450 mya—the latter once belonging to Europe and Africa but now "stuck" onto North America. The fault has been inactive for the last 140 million years, but for many millions of years before that it was hammered by earthquakes—perhaps a big one every century.

As Pangaea separated during the Jurassic Period 194 mya, volcanic activity brought magma up from the earth's mantle to the surface in parts of the rift valley created by the Eastern Border Fault. One of the resulting lava flows hardened into the Deerfield Basalt. The northern tip of this igneous rock formation is clearly visible on Route 2, just east of the Fall River and the Gill-Greenfield Line. The Fall River, Gill's western boundary, flows along a smaller fault line associated with the Border Fault. A pull-off for cars on the south side of Route 2 provides excellent viewing of the Deerfield Basalt and Fall River from across the road.

The Deerfield **Basalt** formation is sandwiched between sedimentary rock on both sides, and the boundary is clearly visible at the eastern edge of the portion visible from Route 2, where sedimentary sandstone rests atop the igneous basalt. The basalt ridge extends south to South Deerfield, and includes Greenfield's **Poets** Seat Tower. Four forms bedrock can be found in the Town of Gill: Deerfield Basalt, Mount Toby Conglomerate, **Turners** Falls Sandstone, and Sugarloaf Arkose.



Conglomerate, a sedimentary rock made from gravel eroded by ancient streams and deposited in the original Connecticut Valley—Route 2, 1 mile west of French King Bridge. Photo by Ivan Ussach.

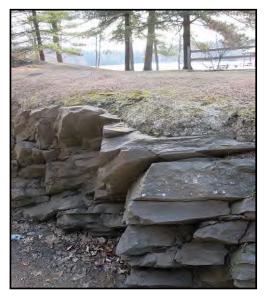
Ongoing earthquakes had the effect of lowering the original Connecticut Valley on the west side of the fault and raising the hills on the east side of the fault. The constant erosion of these hills and mountains deposited sand, gravel, and mud that hardened into nearly 16,000 feet (three miles) of sedimentary rock in today's valley, stretching from North-field, MA, to New Haven, CT. In between, the eastern edge of the valley is well-marked: the Border Fault follows the boundary between the more highly erodible sedimentary rocks of the valley lowlands to the west and the resistant metamorphic rocks of the Eastern Highlands.



View northwest of the French King Bridge from confluence of Millers River (foreground) and Connecticut River (distance), with southeast corner of Riverside in background formed from 250 million-year-old sedimentary rock. Photo by Ivan Ussach.

The sedimentary deposits were excellent repositories for preserving footprints of dinosaurs and other creatures during the Mesozoic Era, and present an exception to the complex mosaic of igneous and metamorphic bedrock underlying most of southern New England. Continued faulting tilted sedimentary layers downward to the Eastern Border Fault, with this characteristic dip visible along Route 2 in Riverside and elsewhere in the valley. In fact, the Riverside area along Route 2 is tilted to the east and south, resembling a bowl. The sediment that collected in this bowl was covered, not eroded, which accounts for the preservation of dinosaur tracks at Barton Cove.

By the Cretaceous Period, which followed the Jurassic Period, the ancestral Connecticut Valley became completely filled with sediment, and was gone. The Eastern Border Fault became inactive as plate tectonics now separated the giant landmass containing Europe and Africa from North America, and the Atlantic Ocean formed in the widening gap. The Valley had reached the



On Route 2—Turners Falls sandstone, a sedimentary rock made of sandy particles, tilted down to the east like much of Riverside's bedrock. Barton Cove is in the distance. Photo By Ivan Ussach.

ultimate erosional stage, becoming a *peneplain*, a flat and gentle landscape with little vertical relief rolling ever-so-slightly down towards the warm, shallow sea. A few places that were harder to erode, like Mount Monadnock in southwest New Hampshire and Mount Wachusett in central Massachusetts, remained above the peneplain. This habitat was excellent for dinosaurs.

The Valley Returns—65 mya to 10 mya

Around 65 mya, as the Rocky Mountains rose in the West, the long-quiet eastern peneplain began to shift and warp upward. Its major uplifting occurred about 10 mya, in the late Miocene Period of the current Cenozoic Era, driven by the expansion of the Earth's mantle. This epeirogenic uplift, involving no faulting or folding, ranged from several hundred to several thousand feet and was greatest to the north. The uplift turned lazy rivers and streams into steep, quick-flowing channels that carved out V-shaped canyons in the rising peneplain. The water's erosional power was greatest on soft rocks like the sedimentary rocks that had filled the former Connecticut Valley.

While some streams continued to flow east, new "pirate" streams began to flow south, parallel to the weak layers of sedimentary rock that eroded faster. As these south-flowing streams cut deeper, they captured the flow of other, east-flowing streams and rivers to unite them. In this way, the Connecticut River was born.

Now, fast forward to only 20,000 years ago—a blink in geological time: Glacial ice covers New England. . . .

Ice Age and Lake Hitchcock—20,000 years ago to 10,000 years ago

Of the more than 20 glacial advances during the last 2 million years or so, most did not reach the Connecticut Valley. Only two glacial "till" deposits, consisting of unlayered material left behind by retreating glaciers and ranging in size from clay particles to boulders, have been located in New England. The older till has been eroded or covered by the deposits from the more recent advance of the Laurentide Ice Sheet, two miles thick and over 70,000 years old. About 20,000 years ago, the continental glacier began to retreat from southernmost position—Long Island, itself a terminal moraine made of bouldery till left at the glacier's front when it melted. Glacial meltwater created lakes where large holes had been scoured out of the earth, and by 18,000 years ago Lake Middletown had formed on the Connecticut River in southern Connecticut. A large delta was created by the meltwater's sediment. When the lake drained, the delta served to dam the River, aided by a spillway located to the west that kept the pressure off the delta dam. As the glacier continued to recede northward over the next 4,000 years, its meltwater created Lake Hitchcock, a linked series of lakes extending into northern Vermont.

Lake Hitchcock is named for Amherst College's scientific Edward Hitchcock. whose many accomplishments included the early study of footprints of creatures later determined to be dinosaurs. Lake Hitchcock and its aftermath have been a subject of geological interest modern and study among researchers.

The eventual draining of Lake Hitchcock returned the Connecticut River to its valley course, but the River continued to battle against obstructions. Sediment deposits from glaciers or lakes sometimes made it impossible for the Connecticut and its tributaries to find their pre-glacial channels. The Connecticut's pre-glacial course ran a half-mile to the east of the French King Bridge and then south through Millers Falls.

According to Professor Richard Jahns, that segment of the Connecticut River "was effectively blocked by the large delta outwash plain of the glacial Millers River,

Armored Mud Balls

Armored mud balls are commonly produced in some streams and have been found at many locations throughout the world. The ones preserved in ancient bedrock are much rarer; they have been found in less than a dozen sites. Those discovered by Little in the 1980s, the majority embedded in Mesozoic sandstone, are the only ones in the world situated by a river, making them both fluvial and fossil.

Armored mud ball recipe: Start with a block of hard, dry mud that falls into a stream. Allow to tumble in the current until it becomes round and soft enough to stick to pebbles in the stream bed. Note: For fossil mud balls, be prepared to wait a very long time.

Little found a total of fifty-five armored mud balls. He first noticed them in the suspension cable foundations on the Turners Falls side of the Red Bridge that spanned the Connecticut River from Gill to Turners Falls from 1878-1942. Those cable foundations contained thirty-two armored mud balls; thirteen were found in an exposed sedimentary layer below the Turners Falls and Gill dams; ten were part of boulders along the Connecticut River's banks.

The "armor" on each mud ball is typically only one grain or pebble thick. Some mud balls are only an inch across with the largest reaching a foot in its widest dimension. The sandstone was probably quarried close by. The mud balls themselves likely traveled very short distances.

Given their abundance in some modern-day streams, Little called it "puzzling" that more armored mud balls have not been found in early Mesozoic rocks of the Connecticut Valley and in other locations with similar conditions.



Connecticut River armored mud ball. Courtesy of Gill Historical Commission.

extending westward and southwestward from Millers Falls." Archaeologist Peter Thomas has stated that the delta extended from the vicinity of the French King Bridge to the top of the hill at Main and West Gill Roads on its northern shoreline and formed the Montague Plains to the south. As a result, "the river tried to cut various channels through these delta sands," forming one or more "braided" rivers. Dr. Thomas notes that the Connecticut "initially tried to cut a channel south through Montague Plains."

Another early channel ran west along the northern margin of the outwash plain through the area that is now Riverside. Its course went around the west side of Canada Hill and south through Greenfield. Within a relatively short time, as the River dropped further through the sandy delta, the channel encountered the hard basalt of Canada Hill and cut a new course to the south, along the east side of Canada Hill.

The Connecticut was eventually captured within the mile-wide valley that then existed above the current site of the Gill-Turners Falls dams. This valley became narrower as the River eroded another 50 feet of sand and clay from the old lake bottom. The River eventually encountered a hard outcrop of resistant shale known as the Lily Pond Barrier, today the Barton Cove peninsula.

From 9,000–14,000 years ago, two waterfalls existed side by side atop the Barrier. Little has used the term "mini-Niagara" to describe them. He writes: "The power of falling water scoured two plunge pools into the bedrock before the River found a channel through the obstruction."

According to Thomas, the River stabilized after going over the top of the Lily Pond barrier. This led to the formation of floodplains, as natural fluctuations in the River's course over time, known as "lateral channel migration" (shifts from side to side), deposited sediment adjacent to its banks. Riverside is essentially a high flood terrace. Dropping river levels created a series of alluvial terraces consisting of silt and sand with the highest located along Walnut Street. Due to the area's modern transformation, these terraced floodplains are not easily visible today. A broad, low floodplain, upstream of the Great Falls and now submerged below Barton Cove, is evident in 19th-century maps and aerial photographs compiled by Thomas.

The River continued to erode the Lily Pond Barrier until the shale ridge was finally breached at the site of what Thomas has described as a third plunge pool beneath the current river channel. Upstream, once the Lily Pond Barrier was breached, the River worked its way even deeper into the underlying metamorphic bedrock to create the 400-foot deep French King Gorge. Downstream, on the east side of Canada Hill, the River exposed the sandstone and shale bedrock that forms the base of the river channel as we know it.

In the 19th century the Lily Pond was a real lily pond, located above the large plunge pool closest to the northern shoreline and beneath a scenic cliff. It was also the site of the busy quarry where the same shale was mined for local use—including the Greenfield sidewalk that in 1835 was found to contain curious "turkey tracks." This quarry became the source of thousands of track specimens, many sold by Gill residents Roswell Field and T. M. Stoughton to collectors and researchers from around the world. The second plunge pool was known as Poag's Hole. Although rising water levels from dam construction spelled the end of the lily pond, Barton Cove and the peninsula remain an attractive destination for boaters and fishers.



Barton Cove with the Lily Pond Barrier extending into the Connecticut River and showing the Lily Pond (left) and Poag's Hole (right)—two plunge pools formed by waterfalls after the end of Ice Age. Aerial photo by Christopher D. Condit, Assoc. Professor of Geosciences, UMass, Amherst.

The Great Falls themselves, no longer visible after construction of several dams and rising water levels, appear to be a series of stepped rapids. Evidence compiled by Thomas indicates that these rapids extend approximately 400 yards upstream from the current Gill and Turners Falls dams to near the site of the Red Bridge, built in 1878 and taken down in 1942. Along with historical maps and photographs, Thomas cites an 1892 *Greenfield Gazette* article by Gill Poet Josiah Canning, in which he wrote: "In olden times, instead of a perpendicular fall of water, as now, the falls were a mad rush of waters down a rocky declivity with irresistible force."



The view up through the forest understory reveals jutting cliffs near Barton Cove's plunge pools.

C.2 Soils

Soil is the layer of minerals and organic material that covers the rock of the earth's crust. All soils have characteristics that make them more or less appropriate for different land uses. Scientists classify soils by these characteristics, including topography; physical properties including soil structure, particle size, stoniness and depth of bedrock; drainage or permeability to water, depth to the water table and susceptibility to flooding; behavior or engineering properties, and biological characteristics such as presence of organic matter and fertility Soils are classified and grouped into associations that are commonly found together.

The majority of Gill's soils fall into two major soil groups: Hollis-Charlton (about 45 percent) and Hinckley-Windsor-Merrimac (about 40 percent). The Hollis-Charlton group is typically well drained, varies in soil depth and can be characterized by both rolling and steep wooded hills. Ledges and rock outcroppings are also common to this group. The Hinckley-Windsor-Merrimac group also has prime farmland capabilities. It is characterized by deep well-drained soils consisting of glaciofluvial deposits of sand, gravel and cobbles.

Within these soil types, soils can be classified as "hydric," or having certain qualities from occurring in or near a wetland. Hydric soils are good indicators for wetland delineation. The identification of hydric soils can aid in the preservation and remediation of freshwater wetlands as mandated by the Wetlands Protection Act.

The Soils and Environmental Constraints Map at the end of this section illustrates the principal soil associations according to their level of drainage and the related constraints on development. The driving factor is soil suitability for septic systems, but typically the same factors affect the ability to build new roads, driveways and structures.

C.2.1 Prime Farmland and Development

Many of the soil types in Gill have prime farmland capabilities. Agricultural soils, especially Prime Farmland and Farmland of Statewide Importance, have characteristics that make them suitable for, and therefore vulnerable to, development. (In the remainder of this section, these two types of soils are referred to together as "prime.") This is in conflict with the fact that farmland is a critical resource in providing locally grown food and contributing to the rural character of the landscape of Gill. Areas of Prime Farmland are also shown on the Soils and Environmental Constraints Map.

It is not possible for the Town of Gill to protect all of its farmland, but these areas with a prime farm land classification are good candidates for land conservation and use restrictions. Farming will be most profitable on the best soils. Farms that remain in operation help to maintain the historical land use patterns that people so commonly relate to rural landscapes. The presence of fresh, locally grown produce in roadside farm stands is often taken for granted by residents, until they are gone.

Prime Farmland soils can be reclaimed from forestland. Houses, on the other hand, are not a land use from which farming can recover. Once farmland is converted through development to residential uses, its agricultural value is negated and it will likely never be farmland again. Gill fortunately has the opportunity to work with willing landowners to preserve as much of the remaining farmland as possible. An effective way of conserving farmland would be to prioritize the parcels of those landowners that want their land protected. The Agricultural Preservation Restriction (APR) Program is a voluntary program that provides a non-development alternative to farmers and other owners of "prime" and "state important" agricultural land. The program offers to pay farmland owners the difference between the "fair market value" and the "agricultural value" of their farmland in exchange for a permanent deed restriction, which restricts any use of the property that will have a negative impact on its agricultural viability.¹⁴

In order for land to qualify for an Agricultural Preservation Restriction, it must meet several criteria including soil type. Included in any application for an APR must be a United States Department of Agriculture (USDA) Natural Resources Conservation Services (NRCS) Soils Map showing a breakdown of the Project's various soil types and acreage possessing

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What is Prime Farmland?

According to Natural Resources
Conservation Service (NRCS), Prime
Farmland is land that has the best
combination of physical and chemical
characteristics for producing food, feed,
forage, fiber, and oilseed crops and that is
available for these uses. It has the
combination of soil properties, growing
season, and moisture supply needed to
produce sustained high yields of crops in an
economic manner if managed with
acceptable farming methods.

In general, prime farmland has an adequate and dependable water supply from precipitation or irrigation, a favorable temperature and growing season, an acceptable level of acidity or alkalinity, an acceptable content of salt or sodium, and few or no rocks. Its soils are permeable to water and air. Prime farmland is not excessively eroded or saturated with water for long periods of time, and it either does not flood frequently during the growing season or is protected from flooding.

soil capability Class I through VIII as well as prime farmland, soils of state or local significance, and unique soils.¹⁵

The APR program requires a local match for the program that can come from any combination of three sources: the municipality, a non-governmental organization such as a land trust, and from a bargain sale conducted by the landowner. The local match requirement is 20 percent, however this percent is reduced if the town has implemented certain policies, including establishing an Agricultural Commission and adopting a Right-to-Farm bylaw.

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¹⁴ Massachusetts Agricultural Preservation Restriction Program: http://www.mass.gov/eea/agencies/agr/land-use/agricultural-preservation-restriction-program-apr.html.

¹⁵ http://www.mass.gov/agr/legal/regs/330 CMR 22.00.pdf

Gill has both an Agricultural Commission and a Right-to-Farm bylaw in place. Agricultural Commissions advocate for farmers, farm businesses, and farm interests in town, and can help work with other boards and committees on farm related issues or concerns. A Right-to-Farm bylaw encourages the pursuit of agriculture, promotes agriculture-based economic opportunities,



Examples of "Right-to-Farm" signage in Massachusetts' towns. Source: MA Executive Office of Energy and Environmental Affairs.

and protects farmlands within a town by allowing agricultural uses and related activities to function with minimal conflict with abutters and town agencies. Many towns with Right-to-Farm bylaws publicly display their support for farming through signage indicating they are a "Right-to-Farm" community.

With the issues of global warming and the need for energy conservation, farmland protection becomes more vital. Locally grown and harvested products allow communities to be more selfsufficient and to help contribute to the reduction of pollution and use of fossil fuels. Protecting farmland agricultural use has for implications beyond the town level for the region's food supply. Protecting farmland and local food supplies was identified as the top resource goal through the participation process for the 2013 Sustainable

Franklin County: Franklin County's Regional Plan for Sustainable Development (RPSD). To examine whether Franklin County has the land resources needed to support an increasing demand for local food—and to achieve some level of food self-reliance—the Conway School of Landscape Design (CSLD) was hired to undertake an analysis of Franklin County's farmland for the RPSD.

The study found that currently over half of all pasture land in Franklin County is in West County, as is nearly all of the orchard land. The study finds that in order for the County to achieve food self-reliance, an additional 3,880 acres of pasture and 13 acres of orchard would need to be put into production (see Table 4-2 below). Currently the County has adequate cropland for self-reliance; however, it is important to note that many farms produce crops for local markets as well as markets outside of the County. The study also notes that while population growth in the County overall is expected to be low in the future, many of East County's farm parcels are along roadways, making them more vulnerable to development.

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¹⁶ Massachusetts Executive Office of Energy and Environmental Affairs: http://www.mass.gov/eea/agencies/agr/land-use/right-to-farm-by-law.html.

Table 4-2: Franklin County Farmland Needed for Self Reliance

Farmland Type Needed	Existing Farmland Acreage	Farmland Acreage Needed	Balance
Cropland	23,750	16,547	+7,203
Pasture	12,320	16,200	-3,880
Orchard	1,180	1,193	-13
TOTAL	37,250	33,940	+3,310

Source: Franklin County Farmland and Foodshed Study, Conway School of Landscape Design, 2012. As presented in the 2013 Sustainable Franklin County: Franklin County's Regional Plan for Sustainable Development's Natural Resources Chapter.

Agricultural trends in Franklin County between 2002 and 2012 show a steady increase in the number of farms and the amount of land in farms in the County, which is contrary to national trends. At the same time the size of farms is decreasing. Additionally, the number of farms where farming is the primary occupation of the principal operator has increased in Franklin County since 2002.¹⁷ All of these trends seem to suggest that farming is a growing economic sector in the County, where small farms operated as the owner's primary business are surviving and thriving. Ensuring that good farmland remains available and affordable for farming will help continue to support the growth of this important part of the region's rural economy.



An inactive fault line runs along the French King Gorge, separating the towns of Gill and Erving.

¹⁷ U.S. Census of Agriculture, 2002, 2007, and 2012. http://www.agcensus.usda.gov/

C.3 Topography

The Town of Gill's topography is a result of glacial deposition and river erosion. Gill's terrain varies greatly in slope from level floodplains to steep river valley terraces. Elevations in Gill range from 150 feet at the junction of the Fall and Connecticut Rivers to 816 feet at the top of Pisgah Mountain. Unsorted glacial deposits of soil and rocks, or drumlins, are present throughout Gill's landscape. A fault line, inactive for more than 140 million years, is located along the French King Gorge at the border of Gill and Erving. Other significant geologic features include the plunge pools at Barton Cove, the falls at the Turners Falls Dam, and glacial eskers at the Town Forest.

D. LANDSCAPE CHARACTER

As discussed in Section 3, Gill's landscape character is one of rolling hills, river terraces, farmlands, and upland forests. Distinguishing Gill from other towns in the area are its woodland brooks and streams, the Connecticut and Fall Rivers that form its eastern, southern, and western borders, and Barton Cove in the southwestern corner of town. In addition, the majority of Gill is still either forest or rolling pasture, and it boasts a number of distinctive archaeological and geologic sites of interest.

Gill also has a number of wooded wetland areas, which contribute greatly to the overall scenic quality of the town and to wildlife habitat. Gill's rural character stems from its long history as both a farming community and a mill town.

D.1 Potential Changes in Development

The overall scenic character of Gill could be affected by a number of potential changes. Potential impacts of climate change could begin to push populations further west in the State and more of Gill's land could be used for residential development. Diminishing supplies of fossil fuels – and their potential rising costs – continue to cause people to turn to alternate sources of locally produced energy sources, such as wood, which could impact Gill's woodlands. Related to the rising costs of fossil fuels, costs of shipping foods long distances could cause an even greater demand for locally grown and processed food, potentially causing more land to be farmed in Gill. Land that is currently forested and that contains prime farmlands could be converted to farmland. With thoughtful planning, though, Gill's landscape character, and the Town overall, could remain largely intact and could even return to a more lively and productive farming community.

E. WATER RESOURCES

The water resources discussed in this section are shown on Map 4-5 at the end of this section.

E.1 Surface Water

The following inventory describes Gill's watersheds, rivers, streams, brooks, and ponds and focuses on water quality issues and the public access and recreational value of these waters.

E.1.1 Watersheds

The Town of Gill contains one major watershed, the Connecticut River Watershed. Fall River Watershed is a sub-watershed of the Connecticut. The Connecticut River is nationally significant in that in 1991, Congress established the Silvio O. Conte National Fish and Wildlife Refuge, the only refuge in the country to encompass an entire watershed – the Connecticut River watershed in New Hampshire, Vermont, Massachusetts and Connecticut. Seven years later, in 1998, the Connecticut River became one of only fourteen rivers in the country to earn Presidential designation as an American Heritage River.

Watershed Protection

Local watershed associations include the Connecticut River Conservancy¹⁸ (CRC) which advocates for the entire, four-state Connecticut River watershed. The CRWC works to protect water—the river, its tributaries, lakes, fish; and the land, plants, and creatures connected to that water.

The CRWC has been conducting the following activities that include Gill:

- Bacteria Monitoring at Barton Cove: The CRWC has been conducting weekly monitoring of the state boat ramp at Barton Cove in the summer of 2011. In the last couple of years prior to 2011, they have done additional bacteria monitoring around the Cove, on the Gill and Montague sides, in order to better understand sources of occasional high readings at the state ramp. See http://www.umass.edu/tei/mwwp/ctrivermonitoring.html.
- CRWC continues to participate in advocacy related to the operation of Northfield Mountain pumped storage facility and the Turners Falls dam, with issues related to erosion, fish passage, and recreation. The CRWC are a member of the Connecticut River Streambank Erosion Committee. From 2009-2013, there are five ongoing streambank restoration projects along the riverfront in Gill.
- CRWC owns one piece of conservation land in Gill and has a conservation restriction on a riverfront property in Gill.
- In 2011, the CRWC facilitated a rain barrel workshop with the Gill Energy Committee as part of an effort to mitigate the impact of stormwater runoff on water resources.
- In 2008 and 2009, the CRWC received grants from several town cultural commissions (including Gill) to do a river song writing contest.

At the local level in Gill, the main mechanism in place to protect watersheds and surface waters are private and non-profit land trusts. The Conservation Commission also has the ability to impact watershed protection.

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¹⁸ https://www.ctriver.org/

Source Water Assessment Program (SWAP)¹⁹

Massachusetts has over 1,700 public water systems that provide drinking water to homes, schools, businesses, and industries. Over 90 percent of the state's population depends on public water supply sources, which are often vulnerable to contamination. More than 70 communities have shut down at least one source because it was contaminated. The Massachusetts Department of Environmental Protection (MassDEP) has had a strong water supply protection program since 1980. As a result, local water suppliers and municipal officials received more hydrogeological and planning assistance from MassDEP for improved protection of local drinking water sources.

MassDEP's SWAP process included the following:

- Delineated protection areas for all public ground and surface water sources;
- Inventoried land uses in these areas that may present potential threats to water quality;
- Determined the susceptibility of water supplies to contamination from these sources; and
- Publicized the results.

Source Water Assessment reports help local and state officials target inspections and focus technical assistance where they are needed the most, encourage cooperative emergency response, and contribute to comprehensive protection of all public water sources.

The results of the Assessment show the top five potential threats to public water sources are:

- 1. Residential lawn care/gardening;
- 2. Residential septic systems and cesspools;
- 3. Residential fuel oil storage;
- 4. Stormwater discharge; and
- 5. State-regulated underground storage tanks.

MassDEP is using this information to target technical assistance and outreach work. What does the Assessment tell the residents of Gill? The Assessment will tell the following:

- Whether your drinking water is from a surface or a groundwater source;
- The locations of the wells or the intakes;
- The water supply protection area;
- Potential Sources of Contamination (PSC) within the protection areas; and
- What recommended steps you should take to maintain or improve protection.

Four drinking water well or intake locations were identified in Gill including:

- 1. Northfield Mount Hermon
- 2. Gill Elementary School

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¹⁹ The 2014 Massachusetts Integrated List of Waters prepared by the Department of Environmental Protection (DEP) is used as a source document for the Connecticut River and all listed surface waters within the Town of Gill. The State is required by the United States Environmental Protection Agency to identify water bodies that are not expected to meet surface water quality standards after the implementation of technology-based controls. In each case, the most severe pollutant is identified. Although the affected water bodies may contain other pollutants, the Integrated List of Waters only includes the results of evaluations upon which DEP has performed some measure of quality control.

- 3. Gill Tavern
- 4. Oak Ridge Golf Club

Each location has an overall ranking of susceptibility to contamination for the wells as "high." The Assessments are available to the public and can be accessed via the Massachusetts Department of Environmental Protection's website.²⁰

E.1.2 Connecticut River

The Connecticut River has a "Class B" water quality designation from the New Hampshire-Vermont border to Holyoke and is classified as a warm water fishery. Class B waters should provide suitable habitat for fish and other wildlife, and should support primary recreational activities such as fishing and swimming. Class B water should also be suitable for irrigation and other agricultural uses. According to the 2014 Massachusetts Department of Environmental Protection's (DEP) Integrated List of Waters, the Connecticut River in Gill is impaired by polychlorinated biphenyls (PCBs) found in fish tissue, Total Suspended Solids (TSS), and impacts to fish and aquatic wildlife from fluctuations in water levels, and other flow regime alterations.²¹ Land along the Connecticut River – and the River itself – contains NHESP/TNC BioMap2 and NHESP Priority Habitats of Rare Species.

Connecticut River Water Quality Assessment

The "Connecticut River Basin 2003 Water Quality Assessment Report" published in 2008²² by the Massachusetts Department of Environmental Protection presents a summary of water quality data/information in the Connecticut River Watershed by segment. The segment relevant to Gill runs from the Route 10 bridge in Northfield to the Turners Falls Dam in Gill.

Report Summary Status

This segment of the Connecticut River is assessed "Support" – or supporting of – all designated uses with the exception of fish consumption, which was assessed as "Impaired". See Table 4-3 below.

Aquatic Life Status

Although aquatic life status is "support", based upon the good survival of test organisms in toxicity tests and good water quality conditions. There is an alert status however, due to the regulated flow regime, severe bank erosion issues, the presence of non-native plant species and the risk that fish tissue contaminants pose to fish-eating wildlife.

http://maps.massgis.state.ma.us/images/dep/omv/il2014viewer.htm. Massachusetts Department of Environmental Protection. Accessed December 27, 2016.

²⁰ https://www.mass.gov/lists/source-water-assessment-and-protection-swap-program-documents

²¹ 2014 Integrated List of Waters Interactive Map:

²² Note: The Connecticut River Basin 2003 Water Quality Assessment Report is the most current data report.

Table 4-3: Connecticut River Use Summary Table

Designated U	988	Status
Aquatic Life	1	SUPPORT*
Fish Consumption	101	MPAIRED Cause: PCB in fish tissue Source: Unknown
Primary Contact		Recreation Primary Contact
Secondary Contact	1	Recreation Secondary Contact
Aesthetics	WAY	SUPPORT*

Source: Connecticut River Basin 2003 Water Quality Assessment Report (2008)

Fish Consumption Status

Because of the site-specific fish consumption advisory for the Connecticut River due to PCB contamination, fish consumption status is assessed as "impaired". Note: As this report is a number of years old, the impaired fish consumption was reviewed to determine whether the status was still valid. In August 2018, the Massachusetts Health and Human Services Department had in place a Public Health Fish Consumption Advisory²³ as follows in Table 4-4.

Table 4-4: Public Health Fish Consumption Advisory

Water Body	Hazard	Advisory	Fish Type
Connecticut	PCBs	P1 Children younger than 12 years of age, pregnant women,	All fish
River	(polychlorinated	women of childbearing age who may become pregnant, and	
	biphenyls)	nursing mothers should not eat any fish from this water body.	
		P2 The general public should not consume Channel Catfish,	American Eel
		White Catfish, American Eel or Yellow Perch from this water	Channel Catfish
		body.	White Catfish
			Yellow

Source: Massachusetts Public Health Fish Consumption Advisory, accessed August 15, 2018.

Primary and Secondary Contact Recreation and Aesthetics Status

These uses are assessed as "support" based upon the low bacteria counts and the lack of objectionable deposits, odors or oils. However, these uses did receive an "alert" status given the turbid conditions, regulated flow regime and severe erosion issues identified upstream.

Report Recommendations

Report recommendations include the following:

- 1. Due to the presence of an invasive algae found in the river, boaters should follow a check-clean-dry protocol when exiting waters
- 2. Continue river-bank stabilization projects
- 3. Continue water quality testing
- 4. Continue monitoring for the presence of invasive non-native aquatic vegetation.

²³ https://eohhs.ehs.state.ma.us/DPH FishAdvisory/SearchTown.aspx

According to the Connecticut River Five Year Action Plan 2002-2007 developed by the Massachusetts Executive Office of Environmental Affairs, the Town of Gill lies in the most rural portion (the Northern Reach) of the Connecticut River Watershed in Massachusetts. Important characteristics of this part of the watershed include agricultural lands, large tracts of forestland, and the presence of two hydroelectric facilities. The Plan lists the following objectives for the Northern Reach:

- Increase awareness of the importance of riparian buffers along the mainstem of the Connecticut River and its tributaries;
- Reduce human-influenced erosion along the mainstem and its tributaries;
- Restore vegetative riparian buffers where appropriate;
- Protect water quality through the implementation of growth management strategies;
- Obtain additional water quality data;
- Reduce non-point source pollution with a particular focus on the mainstem and four priority tributaries;
- Assist communities with the protection of drinking water resources;
- Improve fish passage;
- Encourage the protection of important wildlife habitat;
- Complete an updated inventory of existing boat access points;
- Implement an education program for boaters; and
- Assist with the development of a public access point on the Fall River in Bernardston.

Barton Cove Boat Access and Campground

Located on a rocky peninsula jutting into the Connecticut River, Barton Cove is a recreational area owned and managed by FirstLight Power Resources. A part of the Connecticut River Greenway State Park, the Barton Cove Access Ramp is located on Route 2, 1.5 miles east of the Gill-Montague Bridge. The boat ramp can accommodate recreational motorboats, canoes, and fishing boats. The Barton Cove state boat ramp is one of three state-managed public access points on the Connecticut River in Franklin County. The two others are Pauchaug Access in Northfield and the Sunderland Access.

Barton Cove and buffering lands contain areas of NHESP/TNC BioMap2 and NHESP Priority Habitats of Rare Species. Of special significance is the Bald Eagle, which uses the shoreline as nesting, feeding and perching habitat.

People can use the site for day trips and picnicking or for a week-long camping trip. The Barton Cove Campground has bathroom and tent camping facilities and minimal automobile access. The area boasts a nature trail along a scenic rocky ridge overlooking the river, an abandoned dinosaur footprint quarry, unusual rock formations, a multitude of ferns and wildflowers, plunge pools of ancient waterfalls, and views of sunsets and bald eagles over the Connecticut River. Canoes and kayaks can be rented on an hourly or daily basis in season. Rock formations hanging out over small coves are best viewed in a canoe or kayak.

E.1.3 Fall River

Fall River is located along the town's western border with Greenfield. This river empties into the Connecticut just below the Turners Falls dam and is a scenic and historic asset to the town. There are former mill sites along the Fall River, and its course meanders between cascades. small waterfalls and pools. The mills once used it for hydropower, but it is now primarily a place for



Remnant of one of several grist mills in Gill tumbles into a stream.

fishing, swimming and is an important habitat corridor for wildlife. The middle third of section of Fall River that borders Gill is within the BioMap2 Critical Natural Landscape. The southernmost quarter mile of the river is within the NHESP Priority Habitat of Rare Species.

D.1.4 Other Streams and Brooks

Otter Run

Otter Run flows into the Connecticut River approximately opposite the midpoint of Kidd Island's western shore.

Dry Brook

Dry Brook originates in the Town of Bernardston and flows into the Connecticut River near Grist Mill Road. At one time, Dry Brook was used to power five mills along its banks. Two of the mills were known as Janes' Grist Mill and were located approximately 1,500 feet from the brook's confluence with the Connecticut River.

Dry Brook supports a dense population of Eastern Pearlshell, a species of freshwater mussel known from only twenty-two water bodies in Massachusetts. This species inhabits streams and rivers that are cool and clean enough to support trout, its fish host.

Otter Brook

Otter Brook is located in the northern portion of Gill, is a tributary of Dry Brook and is fed by Otter Pond. There is also a sixty-acre marsh on Otter Brook off Ben Hale Road.

Beaver Brook

Beaver Brook is a tributary of Dry Brook. It originates in a wetland off Mountain Road and flows through Gill Center. It contains habitats for rare and endangered species.

Ashuela Brook

Ashuela Brook originates at Shadow Lake and flows into the Connecticut River approximately opposite the downstream end of Kidd Island. Parts of Ashuela Brook are within the NHESP/TNC BioMap2 and are also designated as NHESP Priority Habitat of Rare Species.

Cascade Brook

Cascade Brook, located in western Gill, flows into the Fall River near South Cross Road. The brook has a set of falls known as the Cascades located off South Cross Road. A wheelwright shop was once located at the falls.

D.1.6 Lakes, Ponds, and Other Surface Water Bodies

Lily Pond

Lily Pond is located off Barton Cove and is a plunge pool created by a glacial dam. It is considered part of the same NHESP area as Barton Cove.

Shadow Lake

Shadow Lake is a five and one-half acre lake located on the Mount Hermon Campus in the northeastern portion of Gill.

Otter Pond

Otter Pond is a shallow six-acre pond located in the northwestern corner of Gill between Hoe Shop Road and Dole Road.

There are a number of other un-named streams, ponds and wetlands in Gill that are located in the Connecticut River Watershed.

E.2 Cold Water Fish Resources (CFRs)

According to the Massachusetts Division of Fisheries and Wildlife (MassWildlife), cold water fish resources are particularly sensitive habitats. Changes in land and water use can reduce the ability of these waters to support trout and other kinds of cold water fish. Identification of CFRs are based on fish samples collected annually by staff biologists and technicians. MassWildlife updates the list of CFRs in the state on an annual basis and maintains an interactive map online. Conservation commissions, planning boards, land trusts, regional planning agencies, and town open space committees can refer to the list and map of CFRs to better inform conservation planning.²⁴

In Gill, Fall River is categorized as a CFR, as is the Dry Brook and an unnamed tributary to it. There is also an unnamed tributary flowing into Barton Cove that is classified as a CFR.

²⁴ Massachusetts Division of Fisheries and Wildlife website: http://www.mass.gov/eea/agencies/dfg/dfw/wildlife-habitat-conservation/coldwater-fish-resources-map.html. Accessed December 30, 2016.

E.3 Flood Hazard Areas

Flooding along rivers is a natural occurrence. Floods happen when the flow in the river exceeds the carrying capacity of the channel. Some areas along rivers flood every year during the spring, while other areas flood during years when spring runoff is especially high, or following severe storm events. The term "floodplain" refers to the land affected by flooding from a storm predicted to occur at a particular interval. For example, the "one hundred-year floodplain," is the area predicted to flood as the result of a very severe storm that has a one percent chance of occurring in any given year. Similarly, the 500-year floodplain is the area predicted to flood in a catastrophic storm with a 1 in 500 chance of occurring in any year.

According to the Town of Gill Multi-Hazard Mitigation Plan, there are approximately 583 acres within the 100 year floodplain in Gill. The plan identifies the Riverside section of Gill as a flood prone area in Town. Other areas within floodplain include the area along the Connecticut River in the farmland area northeast of Stacey Mountain, and in the area of Barton Cove, along the Fall River, Dry Brook and Otter Brook.

E.4 Wetlands

Wetlands are transitional areas where land-based and water-based ecosystems overlap. Inland wet-lands are commonly referred to as swamps, marshes and bogs. Technically, wetlands places where the water table is at or near the surface or the land is covered by shallow water. Sometimes, the term wetland is used to refer to surface water as well.

Historically, wetlands have been viewed as unproductive wastelands, to be drained, filled and "improved" for



This woodland wetland provides important habitat for wildlife in Gill.

more productive uses. Over the past several decades, scientists have recognized that wetlands perform a variety of extremely important ecological functions. They absorb runoff and prevent flooding. Wetland vegetation stabilizes stream banks, preventing erosion, and trap sediments that are transported by runoff. Wetland plants absorb nutrients, such as nitrogen and phosphorus, which would be harmful if they entered lakes, ponds, rivers and streams. They also absorb heavy metals and other pollution. Finally, wetlands are extremely productive, providing food and habitat for fish and wildlife. Many plants, invertebrates, amphibians, reptiles and fish depend on wetlands to survive. Wetlands have economic significance related to their ecological functions: it is far more cost-effective to maintain wetlands than build treatment facilities to

manage stormwater and purify drinking water, and wetlands are essential to supporting lucrative outdoor recreation industries including hunting, fishing and bird-watching.

In recognition of the ecological and economic importance of wetlands, the Massachusetts Wetlands Protection Act is designed to protect eight "interests" related to their function: public and private water supply, ground water supply, flood control, storm damage prevention, prevention of pollution, land containing shellfish, fisheries, and wildlife habitat. To this end, the law defines and protects "wetland resource areas," including banks of rivers, lakes, ponds and streams, wetlands bordering the banks, land under rivers, lakes and ponds, land subject to flooding, and "riverfront areas" within two hundred feet of any stream that runs all year. Local Conservation Commissions are responsible for administering the Wetlands Protection Act; some towns also have their own, local wetlands regulations.

Many of Gill's wetlands can be found in its uplands in isolated forested areas. Some of these wetlands are mapped by the National Wetlands Inventory (NWI).²⁵ Nearly all the wetlands mapped by NWI in Gill are classified as "freshwater forested/shrub", defined as a forested swamp or wetland shrub bog or wetland.²⁶ Most upland wetlands are associated with the headwaters of the major stream systems in town.

E.5 Aquifers

Aquifers are composed of water-bearing soil and minerals, which may be either unconsolidated (soil-like) deposits or consolidated rock. Consolidated rock, also known as bedrock, consists of rock and mineral particles that have been welded together by heat and pressure or chemical reaction. Water flows through fractures, pores and other openings. Unconsolidated deposits consist of material from the disintegrated consolidated rock like gravel and sand. Water flows through openings between particles.

As water travels through the cracks and openings in rock and soil, it passes through a region called the "unsaturated zone," which is characterized by the presence of both air and water in the spaces between soil particles. Water in this zone cannot be pumped. Below this layer, water fills all spaces in the "saturated zone". The water in this layer is referred to as "groundwater". The upper surface of the groundwater is called the "water table" (Masters, Gilbert. *Introduction to Environmental Engineering and Science, Second Edition*, 1998).

The route groundwater takes and the rate at which it moves through an aquifer is determined by the properties of the aquifer materials and the aquifer's width and depth. This information helps determine how best to extract the water for use, as well as determining how contaminants, which originate on the surface, will flow in the aquifer.

Aquifers are generally classified as either unconfined or confined (EPA and Purdue U.; 1998). The top of an unconfined aquifer is identified by the water table. Above the water table, in the unsaturated zone, interconnected pore spaces are open to the atmosphere. Precipitation recharges the groundwater by soaking into the ground and percolating down to the water table. Confined

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²⁵ http://www.fws.gov/wetlands/Data/Mapper.html

²⁶ http://www.mass.gov/mgis/nwi.htm

aquifers are sandwiched between two impermeable layers (Masters; 1998). Almost all the public wells in Massachusetts, including those in Gill, and many private wells tap unconfined aquifers (Mass. Audubon Society; 1985). Wells that rely on confined aquifers are referred to as "artesian wells."

Gill's surficial geology has characteristics that would support medium yield aquifers. A medium-yield aquifer provides a yield of between 25 and 1000 gallons per minute. According to MassGIS²⁷ and the United States Geological Survey (USGS), the following areas support medium-yield aquifers:

- An area approximately three-fourths of a mile to the north of Munn's Ferry Road and
 - approximately one mile to the south of Munn's Ferry Road, along the Connecticut River;
- An area approximately one half mile to the north of Pisgah Mountain Road and approximately one half mile to the south of Pisgah Mountain Road, along the Connecticut River; and
- An area bordered by the town's border with Bernardston, Boyle Road, the intersection of Main Road and Cross Road and Dry Brook.



A mixed hardwood forest rises up alongside Barton Cove.

F. VEGETATION

The vegetated landscape of Gill includes mixed hardwood forests, farmlands and riparian lands. Farmland is made up of crop fields and rolling fields for grazing. Land that borders the Connecticut River is not the broad, flat plains characteristic of much of the Connecticut River Valley but instead is often quite steep wooded embankments. Examples of this can be seen at Barton Cove and at the French King Gorge.

F.1 Forests

Forests constitute one of the most important natural resources in the Town of Gill and in the region. While much of the town's lands are forested, privately owned forest is much more common than publicly owned. The extent of forest cover in Gill is shown in the Regional

²⁷ MassGIS 2007 Aquifer Data Layer information: http://www.mass.gov/mgis/aq.htm

Context Map at the end of Section 3. The values of large blocks of contiguous forestland are many. Some primary values include:²⁸

- <u>Ecosystem Services</u>. Woodlands have significant ecosystems values, including water supply, nutrient retention, carbon sequestration, and climate stabilization. Large blocks of contiguous forests support groundwater recharge and provide ample clean water for humans. Another significant woodland service is mitigation of climate change through carbon dioxide uptake and storage.
- <u>Habitat Connectivity</u>. Large blocks of contiguous forest help support biodiversity and the successful migration of plant and animal species impacted by fragmentation such as that caused by new development. Forestland provides habitat for wildlife species that require a certain amount of deep forest cover and separation for humans.
- Recreation and Tourism. Forestland also provides a natural infrastructure for tourism and recreation economy. Fall foliage season is a vital part of the Western Massachusetts economy, drawing visitors to the area for leaf peeping, contributing to the hospitality industry and other sectors of the economy. Forestland also provides places for hiking, skiing, bird watching, hunting, paddling, and other outdoor activities.

Fragmentation of large blocks of contiguous forestland can be caused by a variety of impacts including:²⁹

- Deforestation and development including subdivisions, commercial complexes, roads and infrastructure.
- Perforation of contiguous forestland including individual houses and their associated driveways, lawns and human activities on large parcels of land.
- Climate change including wide fluctuations in temperature, precipitation, and length of growing season causing impacts such as outbreaks of certain diseases and pests and changes in the range of certain plants and animals. These changes could have real impacts to the local economy such as a decline in maple sugaring.
- Adverse forest practices such as clear cutting with erosion that often follows.
- Parcelization including increased number of owners often absentee and decreased parcel size.
- Invasive organisms including insects, plant species and pathogens.

The woodlands in Gill are used for hiking and nature study and are important habitat for wildlife. They also add to the scenic and rural character of the town. Gill's forests include species associations common to the Hemlock-Northern Hardwoods Forest to the north and the Appalachian-Oak Forest to the south.

Forested lands in Gill are at varied stages of growth due to the changes in landscape, elevation and exposure to elements. Table 4-5 gives a general inventory of the typical species in Gill.

Section 4 – Environmental Inventory and Analysis

²⁸ Wildlands and Woodlands: A Vision for the New England Landscape, Harvard Forest, Harvard University, 2010.
²⁹ Ibid.

Table 4-5: General Inventory of Forest Types in the Town of Gill

	01 - 01 000 - 5 000 0110 - 0 1111 01 0111
Forest Type	Common Trees, Shrubs and Herbaceous Vegetation
Hemlock-Northern Hardwoods	Eastern hemlock, sugar maple, red maple, American beech, yellow
Forest	birch, paper birch, white ash, white pine, willow, speckled alder, sedges
Appalachian-Oak Forest	
Higher elevations	White oak, red oak, shagbark hickory, bitternut hickory, black cherry,
	white ash, American basswood, Eastern cottonwood
Lower elevations	American sycamore, silver maple, box elder, staghorn sumac, smooth
	sumac

Source: USDA; 1992

F.2 Public Shade Trees

Public shade trees are located in Gill Town Center, most notably, a majestic sycamore adjacent to the Town Hall. Public shade trees are also located in Town right of ways, at the Slate Library and in Town cemeteries. In a Town as heavily forested as Gill, preserving public shade trees may seem unnecessary; however, loss of trees in public spaces can significantly change the character of that place. Some methods towns use to protect shade trees include adopting a scenic roads bylaw, limiting the amount of salt used on roads, and requiring replacement of any trees that are lost.

The benefits of street trees include the following:³⁰

- Air quality improvement
- Water quality improvement (incl. improved stormwater management)
- Cooler air temperatures
- Greenhouse gas reduction
- Building energy conservation
- Noise reduction
- Wildlife habitat
- Social/psychological benefits
- Human health benefits
- Aesthetics

The USDA Forest Service has created a a state-of-the-art, peer-reviewed software suite that provides urban and rural forestry analysis and benefits assessment tools, called **i-Tree**.³¹ The i-Tree tools can help strengthen forest management and advocacy efforts by quantifying forest structure and the environmental benefits that trees provide. Since the initial release of the i-Tree Tools in August 2006, thousands of communities, non-profit organizations, consultants, volunteers and students around the world have used i-Tree to report on individual trees, parcels, neighborhoods, cities, and even entire states. By understanding the local, tangible ecosystem

³⁰ Rick W. Harper, Ext. Assist. Professor-Urban and Community Forestry, UMass, "Realizing the Benefits of our Urban Trees," *3rd Annual Massachusetts Clean Energy Conference: Helping Communities with Renewables and Efficiency*; 2016.

³¹ http://www.itreetools.org/

services that trees provide, i-Tree users can link forest management activities with environmental quality and community livability. Analysis tools and utility programs include:

- i-Tree Eco, which provides a broad picture of the entire urban or rural forest;
- <u>i-Tree Hydro</u>, an application designed to simulate the effects of changes in tree and other land cover characteristics within a watershed on stream flow and water quality;
- i-Tree Species, a web application designed to help urban foresters select the most appropriate tree species based on environmental function and geographic area;
- i-Tree Streets, focusing on the benefits provided by a municipality's street trees;
- <u>i-Tree Pest Detection Module</u>, a portable, accessible and standardized protocol for observing a tree for possible insect or disease problems; and
- **i-Tree Storm**, a method for a community to assess widespread storm damage in a simple, credible, and efficient manner immediately after a severe storm.

The Franklin Regional Council of Governments has also compiled a list of Climate Resilient Trees for Streetside Tree Belt Planting, including both shade and ornamental trees. The list provides information on the characteristics of 28 species of trees, including height and spread of the mature tree, whether it is native to North America, the USDA grow zone, light and watering requirements. In addition, the list indicates whether each species is tolerant to drought, salt, air pollution and clay soils; whether it has showy fall foliage or flowers; and whether it is appropriate to plant under utility lines.

F.3 Agricultural Land

In 2005, according to MassGIS data, of the total 9,478 acres of land in Gill, there were approximately 1,600 acres or 17% of agricultural land (includes cropland and pastureland). This number is down slightly from the estimated 20% in 1999. However, during this time, methodology for classifying land has changed. This change may account for the decline from 1999 to 2005.

In 2011, the Gill Agricultural Commission's *Gill Farms: A Guide to Buying Gill Products and Supporting Agriculture in Our Community* indicated the number of small family farms are on the rise.³² Active farmland with prime farmland soils (shown in Map 4-3) in Gill is primarily located along the Connecticut River, the upper Fall River, Cascade Brook, Otter Brook, Dry Brook, Ashuela Brook, and along Main Road. Other active farmland can be found along West Gill Road, River Road, North Cross Road, Mount Hermon Road, Boyle Road, Route 2 and Franklin Road.

Vegetation in agricultural lands can include crops and fields for grazing. Along with grasses, farm fields contain many perennial herbaceous plant as well as some invasive plants, such as multiflora rose, buckthorn, and bittersweet. Farm field edges are often in an early successional forest stage, containing shrubs and small trees. These edges serve as important areas for forage, cover and escape for wildlife.

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³² Steve Damon, Chairperson, 2011 Gill Agricultural Commission

F.4 Wetland Vegetation

As discussed on previously in the Wetlands subsection, wetlands provide important ecological functions and offer important wildlife habitat. Typical wetlands in Gill are forested deciduous swamps. Vegetation found in these wetlands can vary, depending upon shade and other conditions. Some typical plants found in and near Gill wetlands are red maple (*Acer rubrum*), eastern hemlock (*Tsuga Canadensis*), winterberry (*Ilex verticillata*), sedges (*Carex spp.*), ferns, and skunk cabbage (*Symphlocarpus*).

F.5 Rare, Threatened, and Endangered Plant Species

Statewide, NHESP has identified 256 native plant species as rare, threatened or endangered. Plants (and animals) listed as *endangered* are at risk of extinction (total disappearance) or extirpation (disappearance of a distinct interbreeding population in a particular area). *Threatened* species are likely to become endangered in the foreseeable future. Species of *Special Concern* have been documented to have suffered a decline that could result in its becoming threatened, or occur in very small numbers and/or have very specialized habitat, the loss of which could result in their becoming threatened.

Nineteen rare plant species have been documented in the Town of Gill (see Table 4-6). These plants occur in some of the Priority Habitats identified above.

Table 4-6: NHESP Rare Plant Species in the Town of Gill

Scientific Name Common Name		MESA Status*	Most Recent Observation
Celastrus scandens	American Bittersweet	T	2016
Elatine americana	American Waterwort	Е	2012
Trichomanes intricatum	Appalachian Bristle-fern	Е	2011
Carex grayi	Gray's Sedge	T	2016
Boechera missouriensis	Green Rock-cress	T	2008
Desmodium cuspidatum	Large-bracted Tick-trefoil	T	2013
Ludwigia polycarpa	Many-fruited False-loosestrife	Е	2010
Minuartia michauxii	Michaux's Sandwort	T	2013
Cerastium nutans	Nodding Chickweed	Е	2014
Clematis occidentalis	Purple Clematis	SC	2012
Aplectrum hyemale	Putty-root	Е	2007
Crassula aquatica	Pygmyweed	T	2012
Morus rubra	Red Mulberry	Е	1987
Viola adunca	Sand Violet	SC	2005
Prunus pumila var. depressa	Sandbar Cherry	T	2014
Symphyotrichum tradescantii	Tradescant's Aster	T	2014
Deschampsia cespitosa ssp. glauca	Tufted Hairgrass	Е	2016
Oligoneuron album	Upland White Aster	Е	2014
Malaxis monophyllos var. brachypoda	White Adder's-mouth	Е	2014

^{*}SC – Special Concern; T - Threatened; E – Endangered.

Source: Massachusetts Natural Heritage and Endangered Species Program, Town Species Viewer: http://www.mass.gov/eea/agencies/dfg/dfw/natural-heritage/species-information-and-conservation/town-species-viewer.html

As part of annual Biodiversity Days, efforts have been started to map vegetation in the Town Forest. A goal for future mapping projects are included in the Seven-Year Action Plan.



NHESP identifies *Morus rubra* (Red Mullberry) as endangered. Photos from NHESP *Morus Rubra* fact sheet and by Charles S. Eiseman

G. FISHERIES AND WILDLIFE

Gill's forests, rivers, wetlands and open farmland provide habitat for a variety of common and rare wildlife species. This section discusses wildlife species and their habitats from the perspective of natural communities, individual species, and patterns of wildlife distribution and movement across the landscape.

G.1 General Description and Inventory of Wildlife and Wildlife Habitats

Natural Heritage Endangered Species Program and the Natural Conservancy BioMap2 show Core Habitats critical for the long-term persistence of rare species and Critical Natural Landscape, including buffers along Core Habitats. (BioMap2 is discussed in more detail at the beginning of Section 4.) (*These areas mapped in Gill are shown on the Soil and Environmental Constraints Map at the end of this section.*) Nine areas comprising 2,492 acres within Gill are BioMap2 Core Habitat; including 1 Forest Core, 2 Aquatic Cores, 2 Wetland Cores, 1 Priority Natural Community Core, and areas for 33 Species of Conservation Concern. Some of these areas overlap. Adjacent to and overlapping some of these Core Habitats in Gill is one area of BioMap2 Critical Natural Landscape comprising 6,208 acres, including 1 Aquatic Buffer, 2 Wetland Buffers, and 1 Landscape Block.

The most notable pattern of Core Habitat is the significant area that buffers the entire length of the Connecticut River in Gill. These areas provide habitat for rare species in Gill. Other Core Habitat areas include:

- An area in the northeastern corner of Gill along Mount Hermon Road and the intersection of Mount Hermon Road and Main Road;
- An area along the eastern end of North Cross Road;
- Along Ashuela Brook from its confluence with the Connecticut River to approximately three-fourths of a mile upstream;
- An area along Main Road in the central portion of Gill, just northeast of Wyart Road;
- Along Pisgah Mountain Road; and
- An area to the west of Barney Hale Road (see Water Resources and Wildlife Habitat Maps).

There are five examples of Priority Natural Communities documented by NHESP in Gill:

- Calcareous Rock Cliff Community
- High-terrace Floodplain Forest
- Sugar Maple-Oak-Hickory Forest

There is one other type of more common natural community documented from Gill, as well, the Freshwater Mud Flat Community.

The Natural Heritage Endangered Species Program maintains a list of all Massachusetts Endangered Species Act (MESA)-listed species observed and documented in each Massachusetts town. These lists are updated once a year or when there are approved MESA list changes and are shown in the following pages.

G.2 Vernal Pools³³

Vernal pools are unique wildlife habitats best known for the amphibians and invertebrate animals that use them to breed. Vernal pools, also known as ephemeral pools, autumnal pools, and temporary woodland ponds, typically fill with water in the autumn or winter due to rising ground water and rainfall and remain ponded through the spring and into summer. Vernal pools may be very shallow, holding only 5 or 6 inches of water, or they may be quite deep. They range in size from fewer than 100 square feet to several acres. Vernal pools are found across the landscape, anywhere that small woodland depressions, swales or kettle holes collect spring runoff or intercept seasonal high groundwater, and along rivers in the floodplain. Many species of amphibians and vertebrates are completely dependent on vernal pools to reproduce. Loss of vernal pools can endanger entire populations of these species.

NHESP has a program to certify the existence of vernal pools when evidence is submitted to document their location and the presence of breeding amphibians that depend on vernal pools to

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³³ http://www.mass.gov/dfwele/dfw/nhesp/vernal pools/vernal pools.htm

survive. Certified vernal pools are protected by the Massachusetts Wetlands Protection Act and by additional state and federal regulations. Landowners are not required to report the existence of vernal pools on their property and landowner permission must be obtained prior to any person attempting to certify a vernal pool on private property. According to MassGIS data, there are 46 potential vernal pools in Gill and 3 certified vernal pools.³⁴

G.3 Wildlife Corridors

Wildlife and fisheries populations move along corridors such as rivers, riparian areas, ridgelines, farm fields, and forested slopes. Wildlife seek natural cover for shelter and food and forage where human uses, such as horticultural and ornamental plantings, provide browse or food. Remote large blocks of forestland, riparian areas, farm fields, and the parcels of land connecting them together, are important areas to preserve and protect in Gill.

G.4 Rare and Endangered Wildlife Species

G.4.2 Amphibians and Reptiles

Diverse amphibian and reptile species inhabit Gill. Large tracts of forested uplands and forested riparian corridors provide excellent habitat that supports amphibians and reptiles. Vernal pools and wetlands are essential habitat for two-thirds of the Commonwealth's amphibious species. Table 4-7 shows the rare amphibian and reptile species identified in Gill. The Jefferson salamander is a species of concern that inhabits upland forest areas near ponds or vernal pools. Also found in Gill are the marbled salamander, a threatened species and the wood turtle, a species of special concern. Identifying and protecting the habitats are the best means to ensure that these species remain a part of the New England biota.

Table 4-7: NHESP Rare Amphibian and Reptile Species in the Town of Gill

Taxonomic Group	Scientific Name	Common Name	MESA Status	Most Recent Observation
Amphibian	Ambystoma jeffersonianum	Jefferson Salamander	Special	1997
			Concern	
Amphibian	Ambystoma opacum	Marbled Salamander	Threatened	1997
Reptile	Glyptemys insculpta	Wood Turtle	Special	2003
			Concern	

Source: Massachusetts Natural Heritage and Endangered Species Program, Town Species Viewer: http://www.mass.gov/eea/agencies/dfg/dfw/natural-heritage/species-information-and-conservation/town-species-viewer.html

The forests, wetlands and other surface waters in Gill are also home to nine snake species, five turtle species, nine frog and toad species and seven species of salamanders, such as the spotted salamander and the eastern newt.

³⁴ According to January 2010 MassGIS Data, http://www.mass.gov/mgis/ftpstate.htm, there are 3 certified vernal pools in Gill. The NHESP website data, also from 2010, there are 4.

G.4.3 Fish and Mussels

Migratory fish species such as shad and salmon once inhabited the Connecticut River in great numbers. When the Turners Falls dam was built in 1798 and subsequent dams were built further downstream, the salmon stopped running in the Connecticut River. FirstLight Power Resources is maintaining a fish ladder at Turners Falls in order to aid the comeback of this once abundant species.

As shown in Table 4-8, three fish species and one mussel species make NHESP's list of rare species. The shortnose sturgeon is listed as endangered on both the state and federal level. Shortnose sturgeon spawn in fast flowing rocky areas and Longnose suckers are found primarily in cool upper sections of streams and rivers.

Table 4-8: NHESP Rare Fish and Mussel Species in the Town of Gill

Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
Fish	Acipenser brevirostrum	Shortnose Sturgeon	Endangered	Endangered	1993
Fish	Catostomus catostomus	Longnose Sucker	Special Concern		2005
Fish	Lota lota	Burbot	Special Concern		2000
Mussel	Alasmidonta varicosa	Brook Floater (Swollen Wedgemussel)	Endangered		Historic

Source: Massachusetts Natural Heritage and Endangered Species Program, Town Species Viewer: http://www.mass.gov/eea/agencies/dfg/dfw/natural-heritage/species-information-and-conservation/town-species-viewer.html

Other migratory species found in Gill are shad, blueback herring and alewife. Non-migratory species present in the Connecticut River are walleyed pike, carp and bass. Shadow Lake has a native population of blue-gill, crappie, perch and pickerel. Fall River is stocked with trout for recreational fishing and native brook trout are found throughout the town's waterways.

G.4.4 Birds

The Connecticut River Valley is a part of a major migratory flyway from North to South and vice versa. Game birds include ruffed grouse, woodcock, black duck, and mallard. Many shorebirds visit the Connecticut riverbanks in the summer months. Some examples of Gill shorebirds are killdeer, yellow legs, green heron, great blue heron, and spotted sandpiper.

Other bird species in Gill include the common loon, osprey, snow geese, wild turkey, Canada goose, hawks, falcons, nighthawks and swallows. In addition, the river valley is important habitat for songbirds and other migratory birds. A nesting pair of American Bald Eagles has resided on Barton Island for about a decade. After having disappeared completely around the turn of the 20th century, the number of bald eagles nesting in Massachusetts appears to be steadily growing amid three decades of efforts by MassWildlife and Mass Audubon to re-

establish a natural population of the nation's animal here. In 2018, state wildlife officials identified 76 territorial pairs of bald, up from 68 pairs in 2017 and the 59 pairs counted in 2016.

As shown in Table 4-9, the American bald eagle and the sedge wren are the two bird species in Gill currently identified as endangered by NHESP.



Cistothorus platensis – or Sedge Wren – is one of two bird species listed as endangered in Gill.

Table 4-9: NHESP Rare Bird Species in the Town of Gill

Taxonomic Group	Scientific Name	Common Name	MESA Status	Most Recent Observation
Bird	Cistothorus platensis	Sedge Wren	Endangered	1996
Bird	Haliaeetus leucocephalus	Bald Eagle	Endangered	2018*

^{*}Recent local siting reported

Source: Massachusetts Natural Heritage and Endangered Species Program, Town Species Viewer: http://www.mass.gov/eea/agencies/dfg/dfw/natural-heritage/species-information-and-conservation/town-species-viewer.html

G.4.5 Dragonflies and Damselflies

As shown in Table 4-10, there are nine species in the dragonfly/damselfly taxonomic group on NHESP's list of rare species for Gill.

Table 4-10: NHESP Rare Dragonfly/Damselfly Species in the Town of Gill

Taxonomic Group	Scientific Name	Common Name	MESA Status	Most Recent Observation
Dragonfly/Damselfly	Enallagma	Tule Bluet	Special Concern	1997
	carunculatum			
Dragonfly/Damselfly	Gomphus abbreviatus	Spine-crowned	Endangered	2008
	•	Clubtail		
Dragonfly/Damselfly	Gomphus fraternus	Midland Clubtail	Endangered	2002
Dragonfly/Damselfly	Gomphus vastus	Cobra Clubtail	Special Concern	2008
Dragonfly/Damselfly	Gomphus ventricosus	Skillet Clubtail	Special Concern	2008
Dragonfly/Damselfly	Neurocordulia	Stygian	Special Concern	2008
	yamaskanensis	Shadowdragon	•	
Dragonfly/Damselfly	Ophiogomphus aspersus	Brook Snaketail	Special Concern	2007
Dragonfly/Damselfly	Stylurus amnicola	Riverine Clubtail	Endangered	2008
Dragonfly/Damselfly	Stylurus spiniceps	Arrow Clubtail	Threatened	2008

Source: NHESP MESA Massachusetts List of Endangered, Threatened and Special Concern Species, updated 2008

G.4.6 Mammals

Though many larger mammals were driven out or killed off by colonists in the nineteenth century, some are slowly returning to the area as forests have grown back across the landscape. Mammal species common to Gill and surrounding towns are: Black bear, white-tailed deer, beaver, Eastern coyote, opossum, gray fox, red fox, eastern cottontail, New England cottontail, flying squirrel, gray squirrel, red squirrel, varying hare, mink, otter, porcupine, skunk, raccoon, fisher cat, bobcat and weasel.

The NHESP list of rare species cites no mammals for Gill.

G.5 Conserving Gill's Biodiversity

Island Biogeography and landscape ecology are concepts which can be used to help explain Gill's options for pursuing the conservation of the town's biodiversity. The theory of island biogeography is based on observations that biodiversity is greater on large islands than on small ones, and greater on islands that are close to the mainland. The concept of islands surrounded by water has been applied to the idea of "islands" of protected open land surrounded by developed areas. Based on this theory, ecologists predict that increasing the size of a protected land area increases its biodiversity (MacArthur and Wilson; 1967). Therefore, connecting two protected areas via a protected corridor to create one large area should also increase natural biodiversity (Wilson and Willis; 1975).

Another model for wildlife habitat protection aggregates similar land uses while allowing other uses in discrete areas (Forman; 1997). This model is reflected in Gill in areas where agriculture is concentrated along river or stream corridors. This model allows large blocks of forest to remain intact. Individual animals move within a landscape and seek cover for shelter and food. Some species willingly forage where human uses, such as farm fields, gardens and trash cans provide browse or food. As the land within Gill continues to be fragmented by development, it

is reasonable to expect that remaining large blocks of undeveloped forest and the parcels of land connecting them will become more important to area wildlife.

Many species of wildlife in Gill have home ranges greater than fifty acres in size. Even those species with smaller home ranges move across the landscape between sources of shelter, water, food and mating areas. Some animals, including white-tailed deer and black bear, seek both interior forest habitat and wetland edges where food sources may be more abundant. Permanently protected wildlife corridors are particularly critical in a landscape which is experiencing development pressures, to ensure that animals have the ability to travel across vegetated areas between large blocks of habitat.

Connections between bodies of water and sub-watersheds are also important for wildlife and fisheries species. Some of the more common animals that use river and stream corridors are beaver, muskrat, raccoon, green heron, kingfish, snapping turtle, and many species of ducks, amphibians, and fish. Since many species rely on a variety of habitats during different periods of their life cycle, species diversity is greatest in areas where several habitat types occur in proximity to each other. With this in mind, the protection of all habitat types is vital for maintaining and enhancing biodiversity in Gill.

How will the Town of Gill determine the most appropriate conservation strategies for wildlife habitat? There are some general paths to follow in conserving the health of wildlife populations. One is to protect the habitat of specific species that are rare, threatened, or endangered. It is thought that other species will also benefit from this strategy. A second path is to conserve landscape-level resources such as contiguous forest or riparian areas. This helps to protect the habitats of a large number of species, but it might not meet the needs of all rare and endangered species. The third method is a combination of the first two. Maintaining the biodiversity of Gill over the long term will likely require the protection of both unique habitats for specific species and networks of habitat across the landscape.

Conservation strategies for the town to consider include monitoring of species locations, numbers, and movements; the protection of core habitat areas as identified by the NHESP BioMap2; the continued protection and linkage of large blocks of contiguous forestland; the retention of early successional habitats like fields and grasslands; and the protection of vernal pools, wetlands, and riparian corridors that sustain the greatest diversity of life in Gill.

H. SCENIC RESOURCES AND UNIQUE ENVIRONMENTS

This section – along with the natural and historic resources discussed in Section 3 – identifies the scenic resources and unique environments that most town residents would agree represent the essence of Gill's character. In many ways the history of Gill – how people came to settle the land, use its resources, and enjoy its forests, streams, and bodies of water – can be seen in the landscapes that have retained a sense of the past. The unique environments in Gill play a very important role in providing residents with a sense of place. Dinosaur footprint quarries, a record of Gill's history, are located in several areas. Other unique natural resources include the French King Gorge and Barton Cove. Brooks, mountains, wetlands, and village centers provide markers on the landscape within which we navigate our lives.

Scenic landscapes often derive their importance from their location relative to other landscape features. The purpose of inventorying scenic resources and unique natural environments in Gill is to provide a basis for setting resource protection. The locations of the resources shown in Table 4-4 are shown in the Scenic Resources and Unique Environments Map at the end of this Chapter.

Table 4-11: Significant Gill Resources and Scenic Landscapes/Environments

HISTORICAL SITES			
Map #	Location of Landscape		
H2	Riverside Historic District		
Н3	Bascom Hollow		
H4	French King Bridge		
H5	Water power mill sites (three)		
H6	Old bridge crossing		
H7	Cemeteries (four)		
H8	Factory Hollow		
Н9	Capt. Turner Monument		
H10	Old Red Bridge Anchor/ Riverview Dr.		
H11	Sunset Rock		
H12	Munn's Ferry		
H13	Stacy's Ferry		
H14	Miller's Ferry		

SCENI	SCENIC RESOURCES				
Map #	Location of Landscape				
S2	Bascom Hollow/Bascom Road				
S3	West Gill Road				
S4	Historic & Scenic Farm Area (Main Road north)				
S5	Munn's Ferry Road				
S6	Pisgah Mountain				
S7	Historic & Scenic Farm Area (Main Road south)				
S8	Grist Mill Road				
S9	Pisgah Mountain Road				
S10	Stacey Mountain & Scenic Vista				
S11	River Road				
S12	Riverview Drive				
S13	Great Falls Overlook				
S14	Mohawk Trail				
S15	French King Bridge & Scenic Vista				

NATU	NATURAL RESOURCES				
Map #	Location of Landscape				
N2	Otter Pond				
N3	Otter Brook				
N4	Dry Brook (formerly known as Unadilla Brook)				
N5	Ashuela Brook				
N6	Otter Run				
N7	Fall River				
N8	Fall River Tributary "Cascades"				
N9	Beaver Brook				
N10	Dry Brook "Cascades"				
N11	Connecticut River				
N12	Great Falls & Great Island				
N13	Route 2 Geologic Corridor				
N14	Submerged dinosaur footprint quarry				
N15	Armored mudballs				
N16	Dinosaur footprint quarry				
N17	Dinosaur footprint quarry				
N18	Barton Island				
N19	Dinosaur footprint quarry				
N20	French King Gorge				
N21	French King Rock				
N22	Lily Pond				
N23	Horse Race				
N24	King Phillip's Abyss				

RECTREATION RESOURCES				
Map #	Location of Landscape			
R2	Riverside School Recreation Area			
R3	Barton Cove Recreation Area (FirstLight Power Resources)			
R4	State Boat Ramp			
R5	Gill Elementary School			
R6	Blake Town Forest			
R 7	Franklin County Bikeway			
R8	Conn. River Greenway State Park			
R9	Geocaches			

Source: 2018 Open Space and Recreation Plan Committee

I. ENVIRONMENTAL CHALLENGES

There are three main environmental challenges in Gill:

- Fragmentation of farm and forestland;
- Connecticut River bank erosion; and
- Invasive plants and species.

Other environmental challenges in the Town of Gill discussed below include: new development, recreational boating waves, chronic flooding areas, landfills and hazardous waste disposal sites, ground and surface water pollution, potential sources of public and private drinking water supply contamination, and environmental equity.

I.1 Farm and Forestland Fragmentation

Although there may not be agreement as to its severity or solution, the demand for single-family detached housing in Gill and in the region appears to be growing at a faster rate than in the state overall. Gill is far from immune to these regional trends.

Many of the largest undeveloped parcels in town are also the most suitable for development and include farm and forestland with slopes under 25 percent, which are also not protected from development. These open and forested lands contribute most to the town's rural character and are owned by a handful of families. Their agricultural businesses maintain the landscapes as they are: pastoral, historic, and overall, simply breathtaking. Were these farm businesses to fail, the future of the farms and their families, the farm and forestlands, as well as the rural character of the town itself, would be in jeopardy.

I.2. Erosion and Sedimentation on the Connecticut River

The Turners Falls dam, located near the bridge into Turners Falls between Montague and Gill, and the Vernon Dam in Vernon, Vermont form a 22 mile long impoundment in the Connecticut River that is referred to as the Turners Falls Impoundment (TFI) or the Turners Falls Pool. This impounded reach of the river includes the Franklin County towns of Montague, Gill, Northfield and Erving. Since the Northfield Mountain Pumped Storage Project came on-line in 1972, landowners in Northfield and Gill have watched their prime farmland soils and mature riparian trees slump and topple into the Connecticut River. Less dramatic but no less distressing is the erosion of shoreline around Barton Cove in the towns of Montague and Gill. In Erving, the Connecticut River flows through the French King Gorge, which is bedrock, and thus less prone to erosion. The Millers River empties into the Connecticut in Erving.

The intake structure (tailrace) of the Northfield Mountain Pumped Storage facility is located in Northfield near Four Mile Brook. The hydropower project sucks up enormous volumes of water from the river up to the Northfield Mountain Reservoir. Torrents of water are released back to the river through turbines to generate electricity. This cycle of pump and release results in river level fluctuations that erode and destabilize the river banks. Combined with the highly-erodible, prime farmland soils and bank sediments along this reach of the Connecticut River, the dramatic daily fluctuations in water surface elevations have led to severe bank erosion in which riparian

buffers and adjacent farmland have been steadily undermined and continually collapsing into the river. Land owners have been losing land along the river for decades, and bank stabilization efforts have had limited success in stopping the loss of this land.³⁵

Citizens along the Connecticut River have been voicing concern about the erosion issue since the early 1970's and successfully lobbied congressional representatives to get the Army Corps of Engineers to assess the causes of streambank erosion. The 1979 Army Corps study determined that significant changes in river water surface elevations (impoundment fluctuations due to hydropower operations) were the second most important cause of the streambank erosion.³⁶ Efforts during the 1990's by the Connecticut River Streambank Erosion Committee, which was convened by the Franklin Regional Council of Governments, garnered enough public pressure to require the previous and current owners of the Northfield Mountain project to follow a FERC-approved Erosion Control Plan and pay the costs of repairing eroded streambanks.

FirstLight Power Resources (FirstLight) owns the Turners Falls dam, Cabot Station and Station No.1 (collectively this hydropower project is referred to as the Turners Falls Project) and the Northfield Mountain Pumped Storage project. These facilities are not the only hydropower projects that affect the river as it flows through Franklin County. FirstLight's projects are part of a broader system that includes three other hydropower projects in Vermont and New Hampshire, which together affect the flow and bank stability of nearly half of the 410-mile Connecticut River. The Federal Energy Regulatory Commission (FERC) licenses for all five of these projects are up for renewal. The FERC relicensing process for these five projects started in 2012 and is just coming to the end stages in late 2020 – early 2022. To date, the FERC relicensing process for these five projects has included 72 studies and thousands of pages of data.³⁷ The image below, courtesy of the Connecticut River Conservancy (CRC), shows the locations of the five projects.



³⁵ https://www.voutube.com/watch?v=ezzT4FDGvZw

³⁶ https://www.youtube.com/watch?v=ezzT4FDGvZw

³⁷ https://www.recorder.com/my-turn-fisk-FirstLight-TurnersFallsDam-33905989

FirstLight submitted the Amended Final License Applications (AFLAs) for their two hydropower projects to FERC in early December 2020. These documents and all related documents going back to the beginning of the relicensing process (2012) are available at FirstLight's relicensing website.³⁸ While the AFLA for the Turners Falls project includes strategies to address water surface elevations, improve fish passage and habitat resources for endangered species in the project area south of the Turners Falls Dam, Cabot Station and Station No.1, the AFLA for Northfield Mountain does not include any strategies for addressing streambank erosion in the TFI. FirstLight did an erosion causation study as part of relicensing but stakeholders, including landowners, FRCOG, CRC and the towns expressed their strong skepticism of the analysis and FirstLight's use of the Bank Stability and Toe Erosion Model (BSTEM) to parse out responsibility for erosion. According to FirstLight, the BSTEM analysis found that the major cause of erosion in the TFI was attributed to either naturally high flows or boat waves and that project operations are not a major cause of erosion anywhere in the TFI except for at only two sites. FirstLight claims that the first of these sites has already been remediated under the existing license, and that its operating regime contributes only 8% of the erosion processes at the second site. FirstLight considers 8% to be a negligible amount of erosion attributable to their proposed operations and is not proposing any additional erosion remediation measures. Stakeholder groups, landowners and local officials are not pleased with FirstLight's refusal to take responsibility for erosion in the TFI and refusal to properly steward a treasured public resource, the Connecticut River, which generates hundreds of millions of dollars in revenue each year. In fact, FirstLight is proposing to pump additional water from the river up to the upper reservoir to use the full capacity of the upper reservoir while proposing no changes to the 9-ft water level fluctuation (pump & release cycle impacts to the river) allowed in their current license.

Environmental impacts from project operations are not stakeholders' only concern. The Connecticut River is an important recreational resource and a key economic driver in Franklin County's natural resource and recreation based tourism economy. In their AFLA, FirstLight proposes to maintain their existing recreational facilities in Northfield, Montague and Gill (which were installed in the late 1970's) and fund only ongoing maintenance needs. The Americans with Disabilities Act (ADA), which became law in 1990, was not in effect at the time these facilities were built. The relicensing process is an opportunity to evaluate the ADA needs of the existing recreation facilities and propose upgrades but FirstLight did not do this. Instead, FirstLight is proposing to maintain their existing facilities in Gill, which include the Barton Cove Nature Area and Campground and the Barton Cove Canoe and Kayak Rental Facility. FirstLight proposes no upgrades to these existing facilities and in not proposing any new recreation facilities in Gill. FirstLight proposes no remediation of the invasive aquatic plants or sediment that are choking Barton Cove, degrading water quality and habitat and interfering with paddling, swimming and boating in Baron Cove. The list of existing FirstLight facilities is shown in the excerpt from Table 3.0-1 from the AFLA Recreation Management Plan, below.

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³⁸ http://www.northfieldrelicensing.com/Pages/default.aspx

Northinal Mountain Pumped Storage Project (No. 2465) RECREATION MANAGEMENT PLAN

Table 3.0-1; Aurthfield Mountain Project: Existing FERC-Approved Recreation Sites and Facilities Summary

Barton Cove Nature Area and Campground	 nature area parking area (approximately 26 single vehicle spaces) campground parking (approximately 28 single vehicle spaces) showers restroom facilities (2 roadities, ADA compliant) prenic area (approximately 15 tables) averlook interprenye aga walk-in campground (approximately 2 group ares, 28 campsites, and 1 ADA campsite) nature trail dock
Barton Cove Canoe and Kayak Rental Area/Turners Falls Canoe Portage	parking area (approximately 28 single-vehicle spaces) plenic area (approximately 6 tables) scasonal restroom paridlegrafi rental service canno pai-in and take-our (serves as portage take-our) on-call vehicular cance & kayak transport service

FirstLight should be proposing significant investments in recreation resources that reflect the Town's needs and support the local and regional economies and recreation needs for the life of the FERC license, which will be in effect through 2070. This is truly a "once in a lifetime" opportunity for the Town's voice to be heard in the FERC relicensing process. As part of the FERC process, the MassDEP will issue a 401 Water Quality Certificate (401WQC) permit for each of the two FirstLight projects (it could be one permit for both but this depends on how FirstLight structures their 401WQC permit application). There are multiple opportunities in the coming 12-18 months for stakeholders in the Town of Gill to continue advocating for the river, for the protection of valuable prime farmland and riparian and aquatic habitat and recreation resources. The Town should continue working closely with the FRCOG and other local and regional stakeholders during the FERC and 401WQC permitting processes to ensure that the Town's voices are heard.

I.3 Invasive Plants and Species

The Northern Hardwoods-Hemlock-White Pine Forest (NHHWPF), which is one of the predominant forest types in Gill, is particularly susceptible to non-native exotic species and pests. Gill's woodlands have begun to suffer from invasive non-native plants—those which can outcompete the native vegetation and interrupt natural succession if they escape into natural areas to reproduce. The species presently seen in the woods and wetlands are barberry, multiflora rose, burning bush euonymus, Norway maple, Japanese (and other) honeysuckle, Asiatic bittersweet, Japanese knotweed, buckthorn, phragmites and purple loosestrife.

Other invasive plant species that potentially threaten the Gill ecosystem are garlic mustard and giant hogweed. The invasions of autumn olive and Russian olive frequently seen in the highway right-of-way in the Pioneer Valley are not yet such a problem in Gill. Most of the above-named plants, as pure stands, do not have the same wildlife habitat or timber value as the indigenous plant species, nor is their fall color the same. Other potential threats to Gill's forests include the beech fungus which has rendered a once economically important species almost useless; the Asian



Garlic Mustard plant

Longhorned Beetle, an invasive wood-boring insect that attacks hardwood trees, including maple, birch and elm; and the Emerald Ash Borer, a non-native invasive insect that attacks ash trees. These pests have been confirmed in Massachusetts and are being monitored to avoid further spreading.

Hemlock pests may have significant consequences for Gill's forests, especially in the wooded ravines and wetlands. The hemlock wooly adelgid is killing virtually all hemlocks in PA, NY, NJ, and CT. According to experts at Smith College, the wooly adelgid came up from Connecticut into the Springfield area in the early 1990s. Since then it has extended its range north to Amherst and Northampton, and the limit of its cold hardiness is likely to be farther north than Gill, where it is now found. Another threat to the hemlocks has been the hemlock looper, which has killed over 1,000 acres of hemlock in Franklin County.

Invasive aquatic plants are also a potential threat to the ecosystem in Gill. Slightly more than half of the nonindigenous organisms reported in Massachusetts are species that arrived from outside of North America and are commonly referred to as "aliens" or "exotics." Examples of nonindigenous species from other continents include Eurasian Water-milfoil (a plant native to Eurasia; *Myriophyllum spicatum*), Brazilian waterweed (a plant native to South America; *Egeria densa*), and Water Chestnut (a plant native to Eurasia; *Trapa natans*).³⁹

I.4 New Development

Unplanned residential development across town would also increase non-point source pollution like road runoff and reduce the value of remaining wildlife habitat. Increases in runoff would diminish the biodiversity in the stream network all over town. One solution to the problem could be a combination of zoning techniques applied to encourage development in suitable areas and land conservation to minimize development in those areas with the cultural, historic, scenic, natural, archeological, and natural resources values, which are also most threatened from development.

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³⁹ Massachusetts Department of Conservation and Recreation, Division of Water Supply Protection, Office of Watershed Management,; *Aquatic Invasive Species Assessment and Management Plan*; October 2010.

Planning for development – where and how to develop – is perhaps just as important as planning for conservation. Conserving any and all land without considering its value as a potential residential, commercial or industrial site might ultimately force further fragmentation. As such, an action item to continue to assess areas of potential development is included in the Action Plan.

I.5 Recreational Boating Waves

Boat waves continue to be a significant problem on the Connecticut River in Gill. As is mentioned in the ACOE's 1979 study, stream bank erosion and other problems are caused by boat waves. The Commonwealth of Massachusetts General Laws include a prohibition of open water speeds in excess of 45 mph. However, there are no restrictions on motor craft speed near the banks of a river or on the number of craft that can be in operation at any one time. Other problems that are associated with the amount and speed of motor craft on the Connecticut River in Gill include water pollution from silt and mud churned-up by motorboats, noise pollution, and the impacts of large numbers of big motor craft on other forms of recreational boating (e.g. canoeing and kayaking).

I.6 Chronic Flooding Areas

The Town of Gill Multi-Hazard Mitigation Plan identifies the Riverside section of Gill as a flood-prone area in Town. No other areas subject to significant chronic flooding have been identified.

I.7 Landfills and Hazardous Waste Disposal Sites

According to 2005 MassGIS data, there are no hazardous waste sites in Gill. According to MassDEP data⁴⁰, there is one inactive private landfill owned by Northfield Mount Hermon School and located at 1 Lamplighter Way. The 3-acre site operated from 1982 to 2001 and is now capped but unlined. Illegal dumping is a chronic problem in several areas in Town, including in the Town Forest and along Barney Hale Road.

I.8 Ground and Surface Water Pollution

The Town of Gill has no known major problems with nonpoint source pollution. However, as described in the **Erosion and Sedimentation on the Connecticut River** section earlier in this chapter, the Connecticut River is subject to erosive forces which have destabilized many sections of 20-foot-high river banks near the Northfield Mountain Pumped Storage Project. The resulting slumping and mass wasting of large sections of bank and the loss of trees and other riparian vegetation on the top of the banks could contribute to issues with water quality. Erosion could cut channels from the upland areas into the River, encouraging potential runoff from farm fields. Ongoing riverbank stabilization projects will continue to address these issues.

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⁴⁰ https://www.mass.gov/lists/massachusetts-landfills-transfer-stations-compost-sites-recycling-facilities? ga=2.24869245.659102792.1534355038-1441907277.1465834554

Other potential ground and surface water pollution causes include run off from roads, including salt and chemicals, agricultural fertilizers and pesticides, and issues with failing septic systems. Public outreach and education can assist in making people aware of ways to mitigate such potential issues.

I.9 Potential Sources of Public and Private Drinking Water Supply Contamination

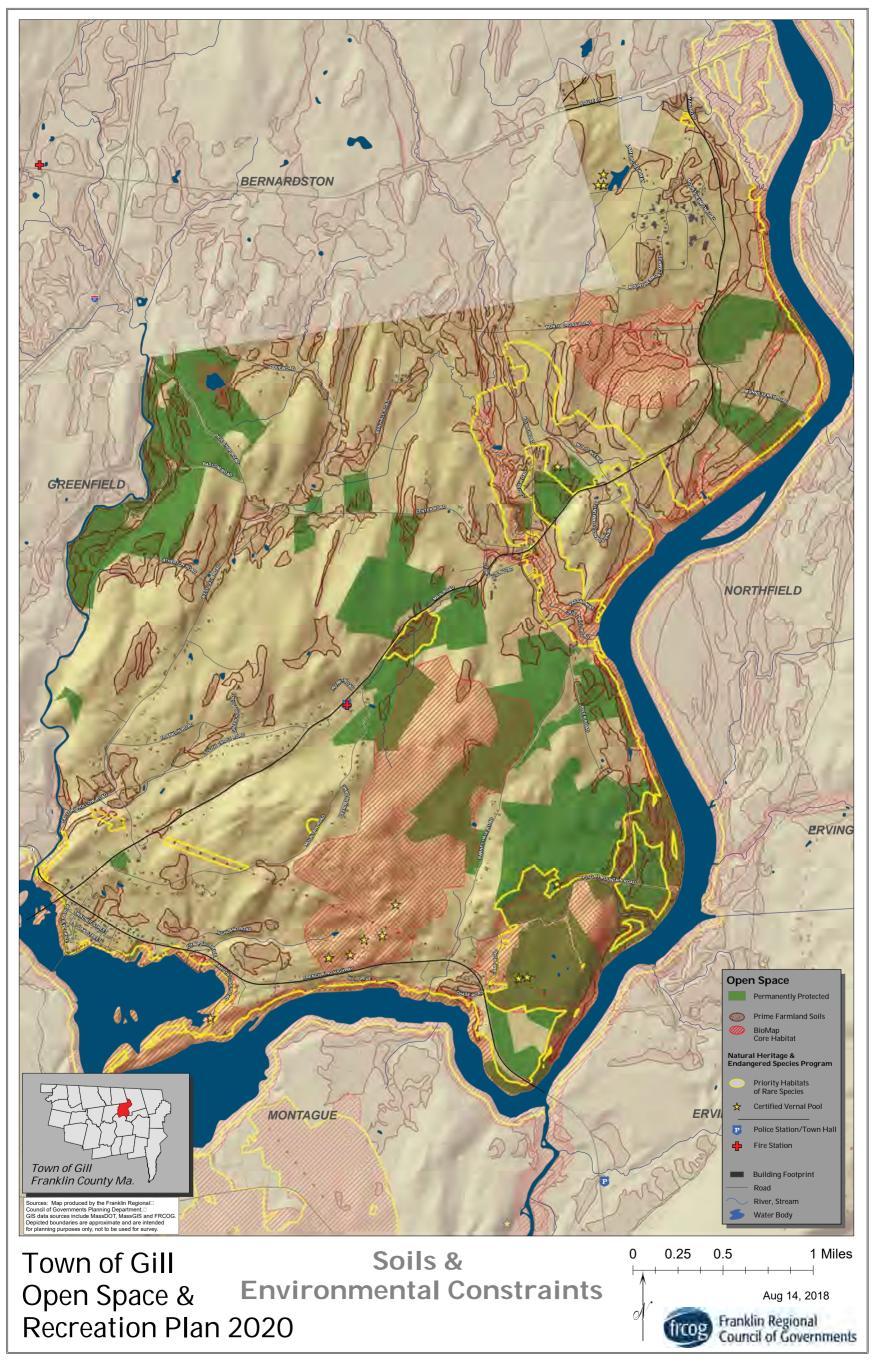
Potential sources of contamination of public and private wells include septic systems, subsurface fuel tanks, manure piles, improper use, storage and disposal of hazardous materials, herbicide runoff from farmland, utility rights-of-way, and state highway vegetation control, and road runoff.

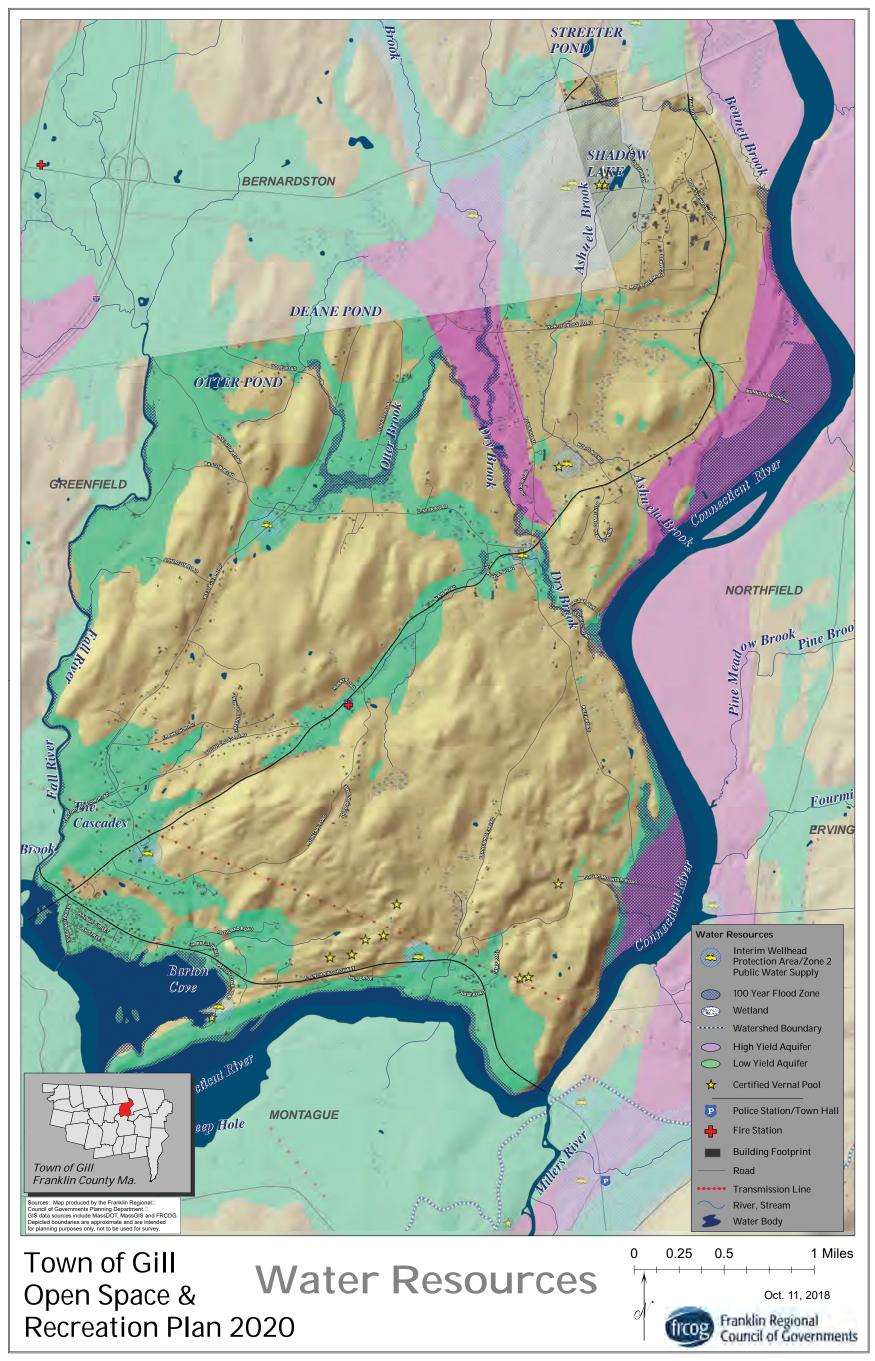
In addition, many private wells in Gill are drying up, especially on Boyle Road, North Cross Road, and near the school.

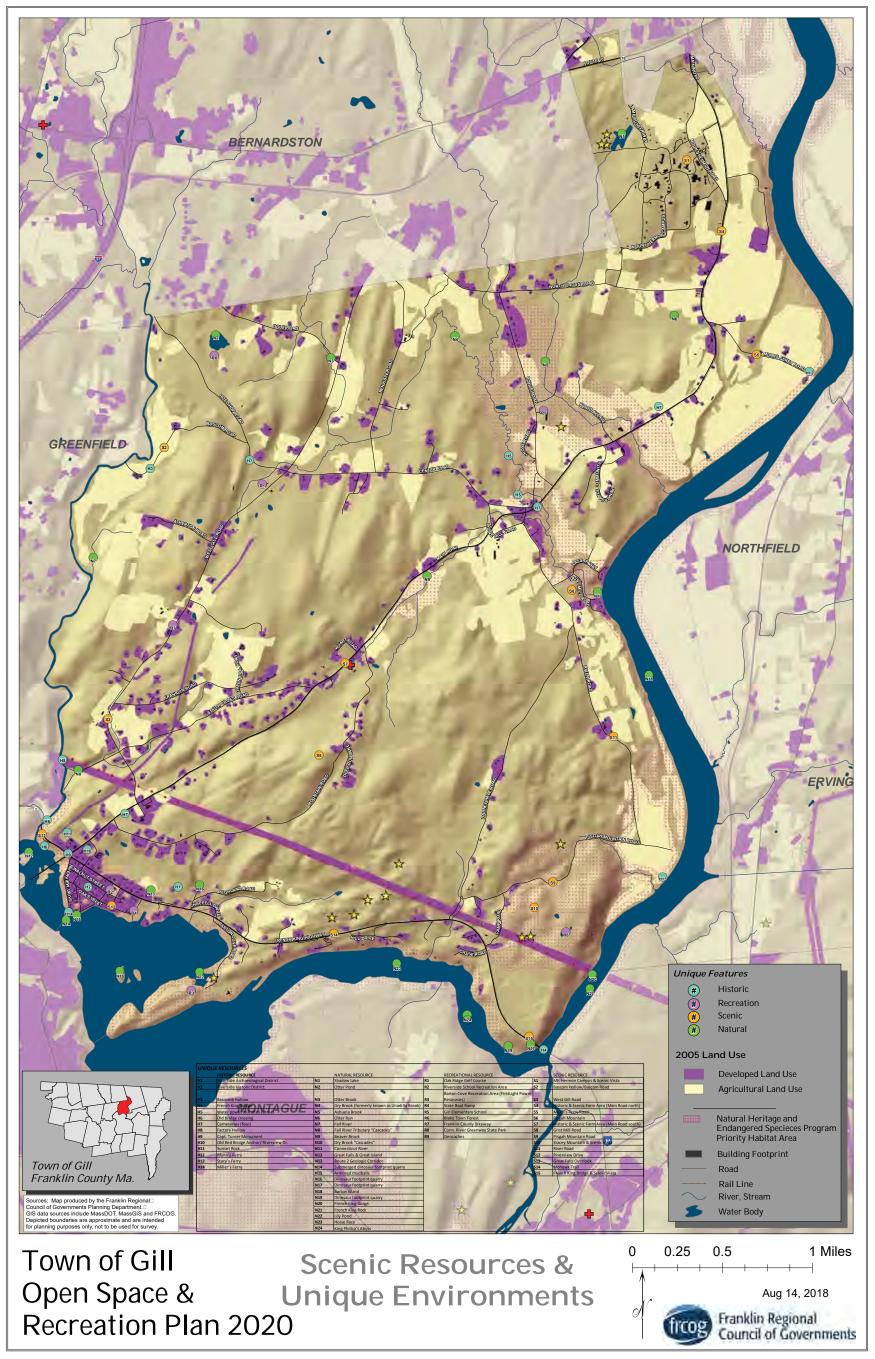
More information on drinking water supply contamination and mitigation can be found at http://www.mass.gov/dep/water/drinking/sourcewa.htm.

I.10 Environmental Equity

One potential issue in regard to environmental equity is the rapidly rising sewer rates in the Riverside Area. In the last year, residents in this area have experienced a 40% increase in the sewer rates. Such a large increase may cause financial difficulties for families with more limited resources.







SECTION 5:

INVENTORY OF LANDS OF CONSERVATION AND RECREATION INTEREST

The previous sections of this plan have identified areas within the Town of Gill that are significant for their cultural, historical, scenic, archeological or ecological values. This information is helpful for understanding the character of Gill and for outlining issues that may be of particular interest in open space and recreation planning decisions.

What is open space?

The term "open space" is often used to refer to land types such as conservation land, forested land, recreation land, agricultural land, corridor parks, green buffers and any open area owned by an agency or organization dedicated to conservation, according to the Mass Division of Conservation Services. Open space may also be defined as any parcel of land or water that remains either in its natural state or in agricultural use, and is otherwise free from intensive development. It can also include water bodies such as lakes and wetlands. The definition of open space can depend in part on the context of its location. In an urban area a vacant lot or a small wetland may be open space. In a town such a Gill, agricultural fields, the river's edges and the Town Forest are counted among its open spaces. For the purposes of this plan open space is further defined by having some level of protection from development.

Protecting open space serves not only to preserve land but also to:

- Preserve areas of cultural, historical, scenic, archeological or ecological values
- Provide space for food production and forest products
- Offer opportunities for outdoor recreation
- Protect ecological functions areas such as flood plains and estuaries (green infrastructure)
- Conserve habitat vital for endangered plant and animal species
- Allow public access and ecotourism potential
- Mitigate the impacts of natural hazard events such as flooding

This section of the Gill Open Space and Recreation Plan provides a comprehensive inventory of all of the lands that provide open space, wildlife habitat, agricultural and forest products, watershed protection, scenic beauty, and recreation opportunities for the benefit of Gill residents. The inventory includes public, private, and non-profit conservation foundation lands and shows the location, types, and distribution of open spaces in relation to the population and other values that depend on the protection that open spaces provide. Information provided includes current land use, the degree of protection, as well as existing land management practices, where available. The inventory identifies the natural resource areas still in need of protection and suggests the types and ideal locations of additional recreational facilities. This information, especially when mapped, can help show patterns of protected land. For example, protecting land in Gill's flood plains is important in order to preserve its vital ecological functions and to protect

their adjacent water bodies. Mapping protected land in flood plains may reveal a key unprotected parcel which could serve as an important link between other tracts of already protected areas and which could be prioritized for protection when the opportunity becomes available. Open space protection is important because, as natural areas are fragmented and lost to development, the benefits these spaces provide to people, plants, and animals are diminished over time.

A. OPEN SPACE AND LEVELS OF PROTECTION FROM DEVELOPMENT

In the Gill Open Space and Recreation Plan, the focus is on undeveloped land that is valued by residents because of what it provides: actively managed farm and forestland; wildlife habitat; protection and recharge of groundwater; public access to recreational lands and trail systems; important plant communities; structures and landscapes that represent the community's heritage; flood control; and scenery. The term 'natural resource' describes the biological and physical components of an ecosystem that people depend on for their existence and, for some, their livelihood. These components are air, surface and ground water, sustainable wood products, soil nutrients, vegetation, fisheries, and wildlife. Recreational facilities can include open space, parks, and developed areas like tennis courts and swimming pools. Recreational facilities also include those that provide access to open space and natural resources, such as boat ramps and trails, or provide a means for active transportation, such as bike paths and sidewalks.

Gill is graced with abundant open space; indeed, 56% of the town's lands are under permanent or temporary protection. The majority of these lands, and in particular those under the temporary protection of Chapter 61 provisions, are owned and maintained by Gill residents, who farm the soils, manage the woodlots, or provide passive recreational access to the natural beauties of the land through a growing network of well-used trails. The town is indebted to these stewards.

Properties under permanent protection constitute 21 percent of the total lands in Gill. Of those, the majority are privately owned: 495 acres are held under Conservation Restrictions, another 868 with Agricultural Preservation Restrictions, and the balance owned by private non-profit conservation organizations and other private entities. Nearly 274 acres are owned by the Commonwealth of Massachusetts. The town itself owns a small number of parcels under permanent protection, including cemeteries (7 acres) and the Town Forest (176 acres).

Private properties with temporary protection add another 3,261 acres of open space, nearly 35 percent of Gill lands. These are owned by residents who have enrolled land under the Chapter 61 tax programs. Farmlands (Chapter 61A) comprise 1,172 acres, forest lands (Chapter 61) make up 1,530 acres, and another 234 acres are in Chapter 61B, the open space/recreation designation. FirstLight owns an additional 325 acres of land that is temporarily protected. As long as the economy can support these land stewards, Gill will continue to enjoy the benefits these open lands provide the town.

Town-owned properties with limited protection cover 60 acres, including the Town Hall, Municipal Building (Highway, Fire & Police), Slate Library, Elementary School, Riverside Municipal Building, the Riverside Sewer Pumping Station, and the Mariamante parcel.

Patterns of open space tell us a lot about the land base itself. Gill's terrain varies greatly in slope from level floodplains to steep river valley terraces. Elevations in Gill range from 150 feet at the junction of the Fall and Connecticut Rivers to 816 feet at the top of Pisgah Mountain. Unsorted glacial deposits of soil and rocks, or drumlins, are present throughout Gill's landscape.

A.1 Permanent Protection

Open space can be protected from development in several ways that differ in the level of legal protection they provide, the method by which they are protected, and by the type of landowner. When land is considered to be "permanently protected," it is intended to remain undeveloped in perpetuity. This level of protection is ensured in one of two ways: (1) ownership by a state conservation agency, a not-for-profit conservation land trust, or the local Conservation Commission; or (2) attachment of a conservation restriction or similar legal mechanism to the deed.

Land is considered to be permanently protected from development when it is owned by the Commonwealth of Massachusetts and managed by a state conservation agency, including the Department of Fish and Game (DFG) or the Department of Conservation and Recreation (DCR). Land is also considered permanently protected when it is owned by the town and is under the authority of the Conservation Commission, or when it is owned by a land trust for conservation purposes. Land acquired by a public agency for the purpose of water supply protection is also considered to be permanently protected.

Private landowners can also protect their properties through the attachment of a conservation restriction (CR). A CR is a legally binding agreement between a landowner (grantor) and a holder (grantee)—usually a public agency or a private land trust—whereby the grantor agrees to limit the use of his/her property by forfeiting interests in the land (development being one type of interest) for the purpose of protecting certain conservation values. The conservation restriction may run for a period of years or in perpetuity and is recorded at the Registry of Deeds. Certain income, estate or real estate tax benefits may be available to the grantor of a conservation restriction.

There are several types of conservation restrictions. Some protect specific resources, such as wildlife habitat, or farmland. Actively farmed land with prime soils or soils of statewide importance may be eligible for enrollment in the state's Agricultural Preservation Restriction (APR) Program. Adopted by the State Legislature in 1977, the APR Program ensures the permanent protection of large blocks of farmland. Administered by the Massachusetts Department of Agricultural Resources (MDAR), this program offers farmers the difference between the "fair market value" and the "agricultural value" of their land. In exchange, a permanent deed restriction is placed on the property, which precludes uses that may harm the agricultural viability of the land. The farmer continues to own the land and can sell it, but only for agricultural uses, making it economically feasible for farmers to keep farming.

Removing permanent protection from any parcel of land that is in the APR Program, protected with a conservation restriction, owned by a state conservation agency, a land trust or a town for conservation purposes, or acquired by a fire or water district for the purpose of water supply

protection requires a vote by two thirds of the State Legislature as outlined in Article 97 of the Amendments to the Massachusetts State Constitution. For the purposes of this Open Space and Recreation Plan, cemeteries are also considered to be permanently protected from development.

The "permanent protection" conveyed by Article 97 does have its limits. The State Legislature has, on dozens of occasions, voted to release this protection at the request of local communities, so that conservation land can be used for schools, roads, economic development, or other public projects not related to resource protection. Reforms have been proposed to make this process more difficult. Recent court cases have also addressed Article 97 protection, such as when Berkshire Superior Court Judge John A. Agostini ruled in May 2016 that eminent domain through the federal Natural Gas Act of 1938 trumped the Article 97 provisions in the state Constitution, allowing the Tennessee Gas Pipeline Co. to proceed with plans to extend a natural gas pipeline through a section of the Otis State Park in Sandisfield. It is important for local advocates of conservation to be vigilant of attempts to remove the protection status from open space in the Town of Gill.

A.2. Temporary Protection

The Farmland Assessment Act was enacted by the State Legislature in 1973 and amended in 2006. Parcels enrolled in Massachusetts Chapter 61 (forestry), 61A (agriculture) and 61B (open space/recreation) tax programs created by this Act are considered to be "temporarily protected" from development. This program offers landowners reduced local property taxes in return for maintaining land in productive forestry, agricultural or recreational use, or in a wild condition, for a period of time. These "chapter lands" provide many public benefits from maintaining wildlife habitat and recreational open space to sustaining rural character and local forest and farm-based economic activity.

Another benefit of the Chapter 61 programs is that they offer towns the opportunity to protect land. When a parcel that has been enrolled in one of the Chapter programs is proposed for conversion to a use that would make it ineligible for the program, the town is guaranteed a 120-day waiting period during which it can exercise its right of first refusal to purchase the property. After a Purchase and Sale Agreement has been signed, the municipality has ninety days to complete the purchase if it elects to buy the property (or assign the right). The right of first refusal can be sold to, or given to, a land trust that can often respond much more quickly than the Town can. It is important for the Town of Gill not to consider land under Chapters 61 (forest), 61A (farm) or 61B (open space/recreation) as permanently protected. At the same time, the value the program offers to the Town should not be disregarded.

A.3. Limited Protection

If a Town-owned parcel of land is under the legal authority of the Select Board, rather than the Conservation Commission, it is considered to have limited protection from development. The parcel could be called a wildlife sanctuary or a town forest, but may not have the long-term protection afforded by Conservation Commission lands. In this case, converting a town forest to a soccer field or a school parking lot could be decided by the Select Board or Town Meeting.

A parcel of land used for the purposes of water supply protection is considered in much the same way. Unless there is a legal restriction attached to the deed or if the deed reads that the land was acquired expressly for water supply protection, the level of protection afforded these types of parcels varies depending on the policies of each community. In most cases, the water district would be required to show the Massachusetts Department of Environmental Protection just cause for converting the use of the land. However, this is not an insurmountable hurdle. The Town of Athol took their surface drinking water supplies off-line after developing a productive well field. A change in land use around the reservoir from water supply protection to active recreational use may occur.

B. INVENTORY OF PROTECTED OPEN SPACE

The ways in which lands are protected from development produce different values. For example, lands that are permanently protected through the use of a conservation restriction (CR) or agricultural preservation restriction (APR) can stay in private ownership. This results in having the decisions regarding the property's management in the hands of individuals, instead of a non-profit or a state or federal agency. In this case the land also remains on the local property tax rolls, and contributes to the local economy if actively managed for forestry or agriculture. Although public access is sometimes required in conservation restrictions purchased by state conservation agencies and land trusts, it is not guaranteed. Lands that are purchased in fee by state agencies and large land trusts are likely to provide access to the general public and sometimes offer payments in lieu of taxes to the Town.

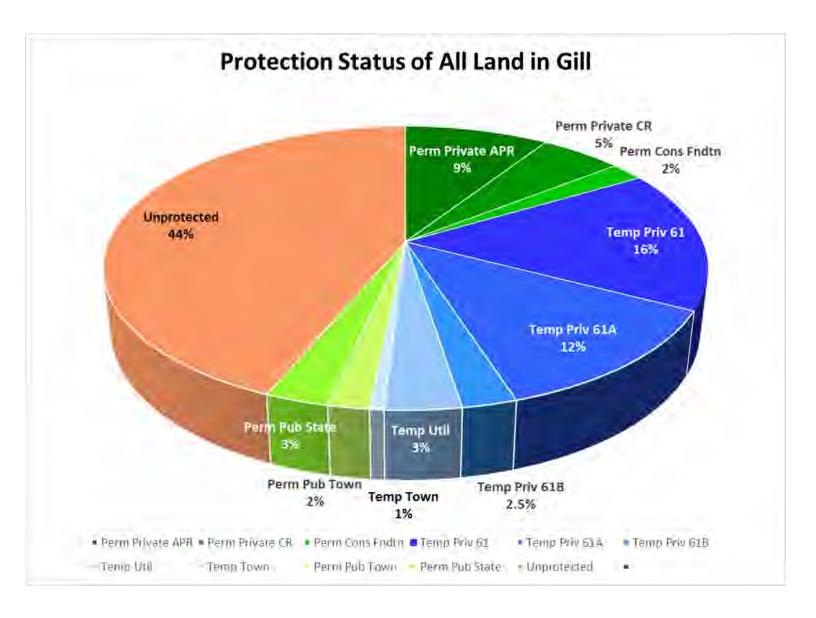
Table 5-1 offers a summary of all types of open space in Gill, categorized by private and public ownership as well as those with permanent protection and temporary protection. In all, there are 5,431 acres of land under some level of protection in Gill. With a total land area of 9,478 acres, about 56 percent of all land in Gill is under some level of protection. Of this protected land, 90 percent is privately owned. Privately owned permanently protected land comprises 29 percent of the total open space in Gill. Privately owned temporarily protected land makes up nearly 62 percent of the open space, representing 34 percent of the Town's total land area.

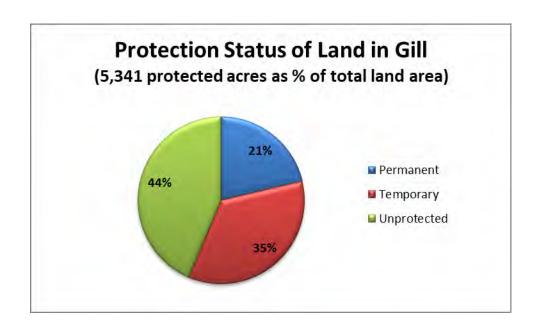
These totals are estimates based on the information available. For land protected with a conservation restriction (CR) or agricultural preservation restriction (APR), the entire acreage of a parcel is counted as permanently protected, although it is likely that some of these restrictions only apply to major portions of a parcel. APR and CR parcels that are also enrolled in the Chapter 61 program are counted only once as permanently protected land, and are not included in the Chapter 61 acreage totals. The Open Space and Recreation Inventory Map at the end of Section 5 shows the location of all protected open space in Town.

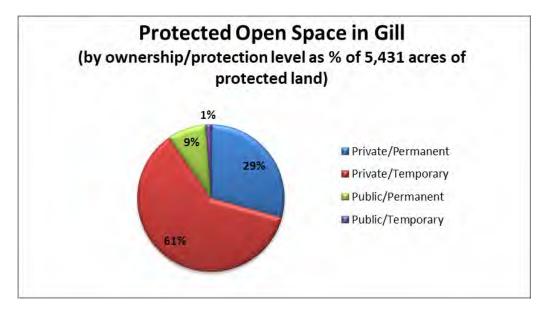
Table 5-1: Summary Open Space by Ownership and Level of Protection in Gill

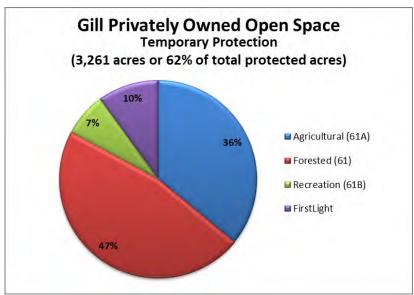
Table 5-1: Summary Open Space by Ownership and Level of Frotect		% of Total	% of Total
PRIVATE PARCELS	Area in	Open Space in	Land Area in
	Acres	Gill	Gill
Privately Owned PERMANENTLY Protected Open Space			
Permanently Protected Agricultural Lands: Table 5-2	868	16.3%	9.2%
Permanently Protected Forestland: Table 5-4	495	9.3%	5.2%
Permanently Protected Conservation Foundation Owned Land: Table 5-6	200	3.7%	2.1%
	1,563	29.3%	16.5%
Privately Owned TEMPORARILY Protected Open Space			
Temporarily Protected Agricultural Lands (Chapter 61A): Table 5-3	1,172	21.9%	12.4%
Temporarily Protected Forestland (Chapter 61): Table 5-5	1,530	28.6%	16.1%
Temporarily Protected Open Space and Recreation Lands (Chapter 61B): Table 5-8	234	4.4%	2.5%
Temporarily Protected Utility-Owned Land: Table 5-7	325	6.1%	3.4%
	3,261	61.1%	34.4%
TOTAL PRIVATE LAND WITH SOME LEVEL OF PROTECTION	4,824	90.3%	50.9%
		% of	% of
PUBLIC PARCELS	Area	Total Open	Total Land
PUBLIC PARCELS	Area in Acres	Total	Total
PUBLIC PARCELS Publicly Owned PERMANENTLY Protected Open Space	in	Total Open Space in	Total Land Area in
	in	Total Open Space in	Total Land Area in
Publicly Owned PERMANENTLY Protected Open Space	in Acres	Total Open Space in Gill	Total Land Area in Gill
Publicly Owned PERMANENTLY Protected Open Space Permanently Protected State-Owned Land : Table 5-9	in Acres	Total Open Space in Gill	Total Land Area in Gill
Publicly Owned PERMANENTLY Protected Open Space Permanently Protected State-Owned Land : Table 5-9 Permanently Protected Town-Owned Land: Table 5-10	in Acres 274 176	Total Open Space in Gill 5.1% 3.3%	Total Land Area in Gill 2.9% 1.9%
Publicly Owned PERMANENTLY Protected Open Space Permanently Protected State-Owned Land : Table 5-9 Permanently Protected Town-Owned Land: Table 5-10	274 176	Total Open Space in Gill 5.1% 3.3% 0.1%	Total Land Area in Gill 2.9% 1.9% 0.1%
Publicly Owned PERMANENTLY Protected Open Space Permanently Protected State-Owned Land: Table 5-9 Permanently Protected Town-Owned Land: Table 5-10 Permanently Protected Cemeteries: Table 5-11	274 176	Total Open Space in Gill 5.1% 3.3% 0.1%	Total Land Area in Gill 2.9% 1.9% 0.1%
Publicly Owned PERMANENTLY Protected Open Space Permanently Protected State-Owned Land: Table 5-9 Permanently Protected Town-Owned Land: Table 5-10 Permanently Protected Cemeteries: Table 5-11 Publicly Owned TEMPORARILY Protected Open Space	274 176 7 457	Total Open Space in Gill 5.1% 3.3% 0.1% 8.6%	Total Land Area in Gill 2.9% 1.9% 0.1% 4.8%
Publicly Owned PERMANENTLY Protected Open Space Permanently Protected State-Owned Land: Table 5-9 Permanently Protected Town-Owned Land: Table 5-10 Permanently Protected Cemeteries: Table 5-11 Publicly Owned TEMPORARILY Protected Open Space	274 176 7 457	Total Open Space in Gill 5.1% 3.3% 0.1% 8.6%	Total Land Area in Gill 2.9% 1.9% 0.1% 4.8%
Publicly Owned PERMANENTLY Protected Open Space Permanently Protected State-Owned Land: Table 5-9 Permanently Protected Town-Owned Land: Table 5-10 Permanently Protected Cemeteries: Table 5-11 Publicly Owned TEMPORARILY Protected Open Space Temporarily Protected Town-Owned Land: Table 5-12	274 176 7 457	Total Open Space in Gill 5.1% 3.3% 0.1% 8.6%	Total Land Area in Gill 2.9% 1.9% 0.1% 4.8%
Publicly Owned PERMANENTLY Protected Open Space Permanently Protected State-Owned Land: Table 5-9 Permanently Protected Town-Owned Land: Table 5-10 Permanently Protected Cemeteries: Table 5-11 Publicly Owned TEMPORARILY Protected Open Space Temporarily Protected Town-Owned Land: Table 5-12 TOTAL PUBLIC LAND WITH SOME LEVEL OF PROTECTION TOTAL PROTECTED OPEN SPACE (Private and Public Ownership)	in Acres 274 176 7 457 60 517	Total Open Space in Gill 5.1% 3.3% 0.1% 8.6%	Total Land Area in Gill 2.9% 1.9% 0.1% 4.8%
Publicly Owned PERMANENTLY Protected Open Space Permanently Protected State-Owned Land: Table 5-9 Permanently Protected Town-Owned Land: Table 5-10 Permanently Protected Cemeteries: Table 5-11 Publicly Owned TEMPORARILY Protected Open Space Temporarily Protected Town-Owned Land: Table 5-12 TOTAL PUBLIC LAND WITH SOME LEVEL OF PROTECTION TOTAL PROTECTED OPEN SPACE (Private and Public Ownership) TOTAL LAND IN GILL	1n Acres 274 176 7 457 60 517	Total Open Space in Gill 5.1% 3.3% 0.1% 8.6% 1.1% 9.7% Acres Acres	Total Land Area in Gill 2.9% 1.9% 0.1% 4.8%
Publicly Owned PERMANENTLY Protected Open Space Permanently Protected State-Owned Land: Table 5-9 Permanently Protected Town-Owned Land: Table 5-10 Permanently Protected Cemeteries: Table 5-11 Publicly Owned TEMPORARILY Protected Open Space Temporarily Protected Town-Owned Land: Table 5-12 TOTAL PUBLIC LAND WITH SOME LEVEL OF PROTECTION TOTAL PROTECTED OPEN SPACE (Private and Public Ownership)	in Acres 274 176 7 457 60 517	Total Open Space in Gill 5.1% 3.3% 0.1% 8.6% 1.1% 9.7%	Total Land Area in Gill 2.9% 1.9% 0.1% 4.8%
Publicly Owned PERMANENTLY Protected Open Space Permanently Protected State-Owned Land: Table 5-9 Permanently Protected Town-Owned Land: Table 5-10 Permanently Protected Cemeteries: Table 5-11 Publicly Owned TEMPORARILY Protected Open Space Temporarily Protected Town-Owned Land: Table 5-12 TOTAL PUBLIC LAND WITH SOME LEVEL OF PROTECTION TOTAL PROTECTED OPEN SPACE (Private and Public Ownership) TOTAL LAND IN GILL PERCENT TOTAL PROTECTED OPEN SPACE	in Acres 274 176 7 457 60 517	Total Open Space in Gill 5.1% 3.3% 0.1% 8.6% 1.1% 9.7% Acres Acres	Total Land Area in Gill 2.9% 1.9% 0.1% 4.8%
Publicly Owned PERMANENTLY Protected Open Space Permanently Protected State-Owned Land: Table 5-9 Permanently Protected Town-Owned Land: Table 5-10 Permanently Protected Cemeteries: Table 5-11 Publicly Owned TEMPORARILY Protected Open Space Temporarily Protected Town-Owned Land: Table 5-12 TOTAL PUBLIC LAND WITH SOME LEVEL OF PROTECTION TOTAL PROTECTED OPEN SPACE (Private and Public Ownership) TOTAL LAND IN GILL PERCENT TOTAL PROTECTED OPEN SPACE	in Acres 274 176 7 457 60 517 5,341 9,478	Total Open Space in Gill 5.1% 3.3% 0.1% 8.6% 1.1% 9.7% Acres Acres 56%	Total Land Area in Gill 2.9% 1.9% 0.1% 4.8%
Publicly Owned PERMANENTLY Protected Open Space Permanently Protected State-Owned Land: Table 5-9 Permanently Protected Town-Owned Land: Table 5-10 Permanently Protected Cemeteries: Table 5-11 Publicly Owned TEMPORARILY Protected Open Space Temporarily Protected Town-Owned Land: Table 5-12 TOTAL PUBLIC LAND WITH SOME LEVEL OF PROTECTION TOTAL PROTECTED OPEN SPACE (Private and Public Ownership) TOTAL LAND IN GILL PERCENT TOTAL PROTECTED OPEN SPACE	in Acres 274 176 7 457 60 517	Total Open Space in Gill 5.1% 3.3% 0.1% 8.6% 1.1% 9.7% Acres Acres	Total Land Area in Gill 2.9% 1.9% 0.1% 4.8%

Source: Town of Gill Assessor's Maps, 2018; 2018 OSRP Working Group

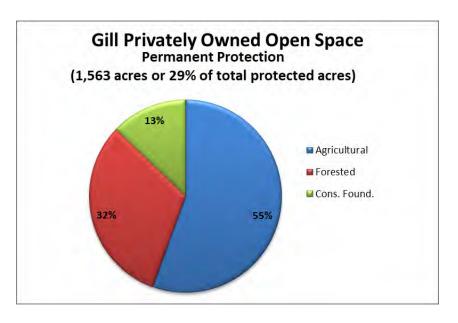


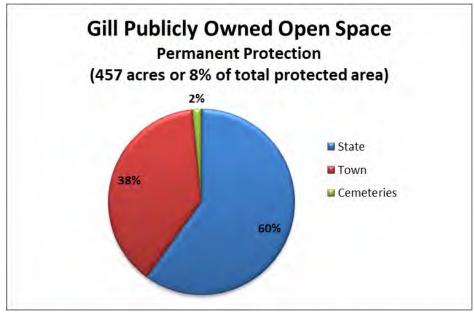






Section 5 - Inventory of Lands of Conservation and Recreation Interest





It is important to consider land protection on a regional scale beyond the borders of Gill for a number of reasons. Forests clean the air, filter water supplies, control floods and erosion, sustain biodiversity and genetic resources, provide wood products and recreation, and sequester carbon. It takes large, intact natural landscapes to sustain these benefits over the long term. These services have tremendous value, from supporting the local economy through forest product jobs, outdoor recreation, and farming, to performing functions that otherwise would need to be engineered by humans. For example, the Massachusetts Audubon Society has estimated that the nonmarket value of the natural areas within the State—for flood control, climate mitigation, and water filtration—is over \$6.3 billion annually.

B.1 Privately Owned Open Space Parcels

Privately Owned Agricultural Land

There are 868 acres of permanently protected privately owned farmland, which constitute 16 percent of the total amount of open space in Gill with some level of protection from development. This land is protected by the Agricultural Preservation Restriction (APR) Program. These APRs are held by the Massachusetts Department of Agricultural Resources (MDAR), the Mount Grace Land Conservation Trust, the Franklin Land Trust, and Massachusetts Audubon. Information on permanently protected farmland in Gill is shown in Table 5-2, including ownership, holder of the restriction, location, map and lot numbers, acreage and value.

There are 1,172 acres of temporarily protected privately owned farmland, which make up about 22 percent of the total amount of open space in Gill with some level of protection from development. Information on temporarily protected farmland in Gill is shown in Table 5-3, including ownership, map and lot numbers and acreage. This land is enrolled in Chapter 61A.

Lands in the Chapter 61 program are considered only temporarily protected because a landowner may remove land that is enrolled in the Ch. 61 program at any time and pay any additional taxes due. If the landowner receives a formal offer from another party to purchase his/her parcel of land, which is in one of the Ch. 61 programs (61, 61A, 61B), the landowner must notify the Town. The Town has 120 days from the day the offer is made to exercise its right-of-first-refusal or transfer this right to a conservation organization. The Town would likely be much more successful in taking advantage of this opportunity if a Chapter 61 protocol is established ahead of time to outline the steps involved in the process. Ideally, the Town should also prioritize parcels or groups of parcels of conservation interest ahead of time.



Many agricultural lands in Gill are temporarily protected under the Chapter 61A program.

Table 5-2: Privately Owned Permanently Protected Agricultural Lands (APRs)

Owner/ Manager	Holder of APR	Location/Site Name	Acres	Assessor's Map	Assessor's Lot	Value
Bascom Hollow Farm LLC	MDAR	0 Bascom Rd	8.50	215	23	Prime Farmland Soils
Bascom Hollow Farm LLC	MDAR	0 Bascom Rd	85.70	215	22.2	Prime Farmland Soils
Bascom Hollow Farm LLC	MDAR	0 Bascom Rd	74.08	215	22.3	Prime Farmland Soils
Crosby Patricia H.	MGLCT	151 Center Rd	12.11	214	5.1	Prime Farmland Soils
Dunklee Revocable Trust	MDAR	North Main Rd	92.00	203	3	Prime Farmland Soils
Flagg Daniel R.	FLT	0 Boyle Rd	5.42	211	3	Prime Farmland Soils
French Richard C.	FLT	0 Main Rd	37.00	213	17	Prime Farmland Soils
French Richard C.	FLT	267 Main Rd	134.00	213	4	Prime Farmland Soils
Hatch Clifford C.	MDAR	0 Main Rd	30.20	211	4.1	Prime Farmland Soils
Hatch Clifford C.	MDAR	0 Boyle Rd	10.07	210	8.2	Prime Farmland Soils
Lilly Keith E.	MDAR	292 Main Rd	43.85	213	15	Prime Farmland Soils
Gardner, Elizabeth S.	MDAR	385 Main Rd	5.58	211	7	Prime Farmland Soils
Podlesny Frank E.	MDAR	0 Center Rd	19.00	209	8	Prime Farmland Soils
Podlesny Frank E.	MDAR	0 Ben Hale Rd	5.40	209	13	Prime Farmland Soils
Remillard Jeffrey R.	MDAR	0 Bascom Rd	52.90	215	24.1	Prime Farmland Soils
Split River Farm LLC	MDAR	0 River Rd	17.00	220	13	Prime Farmland Soils
Split River Farm LLC	MDAR	Stratton Pisgah Mtn Rd	62.80	220	11	Prime Farmland Soils
Split River Farm LLC	MDAR	Stacy Pisgah Mtn Rd	52.00	227	10	Prime Farmland Soils
Storrow Thomas W.	MDAR	0 River Rd	30.00	219	9	Prime Farmland Soils
Storrow Thomas W.	MDAR	0 River Rd	17.76	219	7.1	Prime Farmland Soils
Urgiel Alexander V. Jr.	MDAR	0 Munns Ferry Rd	18.90	204	2	Prime Farmland Soils
Urgiel Alexander V. Jr.	MDAR	464 Main Rd	54.00	204	6	Prime Farmland Soils
	TOTAL ACRES:	868.27				

Source: Town of Gill Assessor's Maps, 2018; 2018 OSRP Working Group.

Table 5-3: Privately Owned Temporarily Protected Agricultural Land (Chapter 61A)

Owner	Location	Acres	Assessor's Map	Assessor's Lot
Cole Karen L.	457 Main Rd	7.54	204	16.1
Cotter Patrick M.	0 Munns Ferry Rd	9.10	203	5.3
Cotter Patrick M.	53 Munns Ferry Rd	36.15	203	11
Cotter Patrick M.	0 Munns Ferry Rd	55.30	203	5.2
Cutting Frank J.	81 Ben Hale Rd	13.60	203	4.2
Cutting Frank J.	0 Boyle Rd	77.00	206	1
Cutting Real Estate Trust	81 Ben Hale Rd	21.00	207	1.2
Cutting Real Estate Trust	81 Ben Hale Rd	36.00	207	4.1
Cutting Real Estate Trust	81 Ben Hale Rd	73.00	207	1.1
Flagg, Shirley E.	430 Main Rd	151.00	204	13.2
Flagg, Shirley E.	Cole Main Rd	45.20	204	8
Flagg, Shirley E.	421 Main Rd	134.00	204	14
Giknis James A.	155 French King Hwy	50.00	103	5
Hastings Ernest M.	0 West Gill Rd	73.40	207	6.1
Hastings Ernest M.	314 West Gill Rd	47.00	207	5
Hatch Clifford C.	411 Main Rd	40.00	211	10.1
Johnson Kenneth E.	15 Vassar Way	13.47	212	15
Keech Linda	47 Franklin Rd	45.00	216	14
Keech Linda	47 Franklin Rd	15.00	217	1.11
Kramer Susan J.	54 Boyle Rd	34.03	206	28-21
Lemieux Noreen	119 River Rd	20.00	219	10
McComb James H.	0 Dole Rd	6.51	208	11.2
McComb James H.	58 Dole Rd	11.57	208	11.1
Schechterle Steven J.	257 West Gill Rd	24.00	209	5
Schechterle Steven J.	36 Hoe Shop Rd	12.45	209	3.2
Urgiel Alexander V. Jr.	0 Munns Ferry Rd	14.68	204	3.1
Wiancko Laura & Greenstein Judd S.	0 Franklin Rd	34.00	217	35
Zak Farm Trust	0 River Rd	14.00	212	8

Section 5 - Inventory of Lands of Conservation and Recreation Interest

Owner	Location	Acres	Assessor's Map	Assessor's Lot
Zak Farm Trust	South Main Rd	10.50	213	5
Zak Farm Trust	0 Lyons Hill Rd	2.80	212	22
Zak Farm Trust	North Main Rd	44.30	211	22
Zak Farm Trust	0 Lyons Hill Rd	0.50	213	6
	TOTAL ACRES:	1,172.10		

Source: Town of Gill Assessor's Maps, 2018; 2018 OSRP Working Group.

Much of the land enrolled under Chapter 61A also abuts rivers and streams. While agriculture can have negative impacts on water quality, these impacts can be reduced or avoided through the use of best management practices. When best management practices are observed, agriculture is compatible with watershed protection because it keeps the land open, while development results in conversion of land to impervious surfaces with negative impacts on water quality.

Agricultural lands enrolled under the Chapter 61A program offer much value to the town even if the farmlands are only temporarily protected. These agricultural parcels often contain prime farmland soils that should be preserved for continuing use. These privately owned open spaces also contribute to the town's tax base and generate revenue, employment, and food products. In addition, some landowners may allow access to their property for recreational purposes, like hiking or snowmobiling. Most Chapter 61A landowners take pride in their land and practice good stewardship. They help to define a sense of place for Gill and contribute to community stability.

Privately Owned Forested Land

Approximately 495 acres are permanently protected privately owned forestland, which constitute approximately 9 percent of the total amount of open space in Gill with some level of protection from development. This land is protected by conservation restrictions (CRs). These restrictions are held by the Massachusetts Department of Agricultural Resources. Information on permanently protected farmland in Gill is shown in Table 5-4, including ownership, holder of the restriction, location, map and lot numbers, and acreage.

Table 5-4: Privately Owned Permanently Protected Forested Land (CRs)

Owner	Holder of CR	Location	Acres	Assessor's Map	Assessor's Lot
	Department of Conservation			•	
Bathory Michael J.	and Recreation (DCR)	0 River Rd	31.00	220	10
Bathory Michael J.	DCR	0 River Rd	76.00	220	5
Brown Allen Tupper	DCR	58 River Rd	31.00	212	18
French Richard C.	DCR	0 Barney Hale Rd	13.75	221	11.1
French Richard C.	DCR	0 Barney Hale Rd	103.00	218	4
French Richard C.	Mount Grace Land Conservation Trust (MGLCT)	0 Mountain Rd	10.50	217	22
French Richard C.	DCR	0 Barney Hale Rd	19.00	219	14
Jenkins Peter L.	DCR	76 River Rd	83.32	218	5
Jenkins Peter L.	DCR	0 Barney Hale Rd	0.70	219	16
Jenkins Peter L.	DCR	3 Barney Hale Rd	4.01	219	17
Polatin Christopher	MGLCT	0 Mountain Rd	88.00	218	2.1
Wallace Allen	DCR	143 River Rd	34.40	220	8
		TOTAL ACRES	494.68		

Source: Town of Gill Assessor's Maps, 2018; 2018 OSRP Working Group.



Forest land in Gill includes sugar bush, which supplies sap for local maple sugaring products.

Properties with conservation restrictions may have the potential for passive recreational use or for activities such as fishing or hunting but recreational use is dependent upon the wishes of the landowner.

Privately owned forestland with temporary protection from development is shown in Table 5-5. Approximately 1,530 acres are under the Chapter 61 program, which make up 29 percent of the total amount of open space in Gill with some level of protection from development.

Table 5-5: Privately Owned Temporarily Protected Forestlands (Chapter 61)

Owner	Location	Acres	Assessor's Map	Assessor's Lot
B And G Golf Associates	231 West Gill Rd	107.00	214	8
Berniche Charlene	127 West Gill Rd	79.00	216	4
Caron Thomas L.	195 French King Hwy	41.00	226	21
Cowls W D Inc~	0 Pisgah Mtn Rd	39.65	227	12
Diemand Daniel	8 Hickory Hill Rd	22.44	210	4
French Richard C.	0 Mountain Rd	35.50	222	5.2
French Richard C.	74 Mountain Rd	23.50	222	5.B
French Richard C.	0 Mountain Rd	19.00	222	11
French Richard C.	0 Center Rd	33.00	213	13
French Richard C.	0 Ben Hale Rd	27.00	207	2
Georgian Bernadette S.	0 Franklin Rd	77.00	217	37
Giknis James A.	0 Barney Hale Rd	24.30	221	5
Giknis James A.	0 Mountain Rd	12.00	221	6
Giknis James A.	0 French King Hwy	78.00	226	22
Giknis James A.	0 Mountain Rd	23.00	222	1
Giknis James A.	0 Mountain Rd	6.00	222	3
Motha & Herbert	31 Hoe Shop Rd	13.79	215	20
Hisz Michael A.	0 Main Rd	81.00	222	14
Krejmas Bruce E.	0 West Gill Rd	67.00	215	17
Krejmas Bruce E.	0 West Gill Rd	3.80	215	18
Lafleur Arthur J.	40 Atherton Rd	66.00	215	15
Lewandowski Jeffrey L & Gauthier Suzan	250 Mountain Rd	28.49	221	2.13

Section 5 - Inventory of Lands of Conservation and Recreation Interest

Owner	Location	Acres	Assessor's Map	Assessor's Lot
Nowill Paul	351 West Gill Rd	26.00	207	11.1
Parsons Irrovocable Trust	Rear Mountain Rd	36.10	221	14
Parsons Irrovocable Trust	0 Mountain Rd	67.78	218	3.1
Parsons Irrovocable Trust	0 Mountain Rd	4.62	221	2.9
Purington Ray	29 Atherton Rd	45.96	215	14.2
Schechterle Steven J.	257 West Gill Rd	61.00	209	3.1
Stotz Living Trust~	0 West Gill Rd	31.00	224	45
Stotz Living Trust	0 West Gill Rd	11.00	223	7
Stotz Living Trust	0 West Gill Rd	18.00	223	12
Striebel Stephen P.	Off Main Rd	50.00	205	10
Theriault Mark R.	9 West Gill Rd	21.38	224	39
Wiancko Laura & Greenstein Judd S.	25 Green Hill Rd	70.00	217	36
Zak Farm Trust	20 Lyons Hill Rd	180.00	212	20
	TOTAL ACRES	1,530.31		

Source: Town of Gill Assessor's Maps, 2018; 2018 OSRP Working Group.

All the parcels in Table 5-5 are temporarily protected in Chapter 61. Protection of these parcels is short term. There are no public grants awarded as a result of the program. The owner agrees not to change the land's use for ten years while paying reduced property taxes during that time period. These lands are located in the Residential/Agricultural zoning district.

Chapter 61 lands are managed for forest products, which result in the employment of loggers, foresters, and local mill workers, income for landowners, and the availability of locally grown wood for flooring, furniture making, and firewood. Many forested lands also provide recreational value for Gill residents. The Chapter 61 program contributes to the preservation of forested landscapes valued by Gill residents.

Privately owned forestland offers many values to the community and is an important resource for several reasons. Many forestlands are large parcels with a low degree of fragmentation, preserving wildlife and plant habitats. When these forestlands are protected from development, they help to protect and provide clean water, air, and healthy wildlife populations. Forest soils have a high infiltration capacity, absorbing moisture and permitting little surface runoff. Once absorbed, water is released gradually, reducing flooding during large rain events and maintaining stream flow during low water months. Because forest soils are absorptive, soil erosion is reduced and fish habitat is preserved.

Privately-Owned Open Space and Recreational Land

There are 200 acres of privately owned permanently protected open space accounting for about 4 percent of the total amount of open space with some level of protection that is owned by non-profit conservation organizations. These include The Nature Conservancy (TNC), the Connecticut River Watershed Council (CRWC), and the Mount Grace Land Conservation Trust (MGLCT). Information on the parcels is shown in Table 5-6.

Section 5 - Inventory of Lands of Conservation and Recreation Interest

Table 5-6: Conservation Foundation Owned Open Space Permanently Protected from Development

Owner	Location	Acres	Assessor's Map	Assessor's Lot
CRWC	0 West Gill Rd	7.80	223	9
MGLCT	0 Barney Hale Rd	17.00	227	3
MGLCT	0 Center Rd	5.60	209	6
TNC	3 Pisgah Mountain Rd	13.70	228	8
TNC	0 Pisgah Mountain Rd	41.00	227	15
TNC	0 Pisgah Mountain Rd	10.40	227	14
TNC	0 Pisgah Mountain Rd	20.00	227	13.1
TNC	0 Pisgah Mountain Rd	20.86	227	16.2
TNC	Rear French King Hwy	58.00	228	10
TNC	0 Pisgah Mountain Rd	6.00	227	11
	TOTAL ACRES:	200.36		

Source: Town of Gill Assessor's Maps, 2018; 2018 OSRP Working Group.

Other privately owned land in Gill that has temporary protection from development is land owned by FirstLight Power Resources. FirstLight Power Resources currently has licenses to operate the Turners Falls Dam and Northfield Mountain Hydroelectric Projects on the Connecticut River. These projects affect the Connecticut River, which borders the town of Gill. FirstLight Power owns most of the land in Gill along the Connecticut River. Land along the Connecticut River has many values for open space: it provides flood control, wildlife habitat, beautiful scenery and recreational opportunities. Most of the utility-owned land along the river is forested. FirstLight Power's ownership and management of this land is a condition of its Federal Energy Regulatory Commission (FERC) license for its hydroelectric facilities in Montague and Erving. Therefore, all land subject to the FERC license is considered to have limited protection from development.

Under its FERC license, FirstLight is required to provide recreational benefits to the communities bordering the river. In Gill, the company currently maintains a campground and canoe/kayak rental facility at Barton Cove. Facilities available for rent include a picnic pavilion for up to 100 people on the Connecticut River and a yurt that accommodates up to 30 people.

The hydroelectric power facilities on the Connecticut River owned by FirstLight Power are currently undergoing FERC relicensing, as the current license expires in April 2018. As discussed in Section 3: Community Setting, the process includes a review of how the hydroelectric facilities impact the river and communities through a number of required studies and public meetings. The Town of Gill, along with other local and regional stakeholder organizations, has been an active participant in the process. Through the process the Town has requested that under the new license, recreational access to the Connecticut River will be improved for residents. Specific improvements include: maintaining an acceptable minimum flow for recreation, such as white water rafting, and to support fish habitat; and providing Gill residents with adequate, user friendly public access points to the Connecticut River for

recreation, especially a public boat ramp and a dedicated canoe/kayak lane behind the island in Barton Cove.

The FERC license agreement requires that FirstLight Power Resources obtain flowage rights to the land bordering the river. Flowage rights are similar to land easements and allow for the impacts of a project dam including backwatering onto adjacent properties. The company is responsible for minimization and prevention of soil erosion and other adverse effects associated with hydroelectric projects within the flowage boundary. FirstLight Power Resources has implemented an erosion control plan to manage these properties. The erosion control plan outlines bank stabilization repair and erosion prevention measures that should be undertaken while FirstLight Power Resources operates the projects.

The primary purpose of the erosion control plan is riverbank stabilization and erosion control. In addition, FirstLight Power Resources has committed to provide recreational and environmental education facilities in areas impacted by the projects. These facilities serve to protect the areas scenic and historical assets as well as wildlife species habitat and are located in Gill, Northfield, and Montague.

The property owned by FirstLight Power Resources is considered temporarily protected as open space for the duration of the project license. The company owns parcels totaling about 325 acres as shown in Table 5-7, or about 6 percent of the total protected open space in Gill.

Table 5-7: Utility Company Land with Temporary Protection

Owner	Location	Acres	Protection	Assessor's Map	Assessor's Lot
Firstlight Hydro					
Generating Company	0 Riverview Dr	4.50	FERC	101	58
Firstlight Hydro					
Generating Company	0 Oak St	0.66	FERC	101	59
Firstlight Hydro					
Generating Company	0 Oak & Grove St	1.00	FERC	101	83
Firstlight Hydro					
Generating Company	0 Elm St	0.14	FERC	101	84
Firstlight Hydro					
Generating Company	0 Oak St Grove	0.32	FERC	101	85
Firstlight Hydro					
Generating Company	3 Riverview Dr	0.31	FERC	101	89
Firstlight Hydro					
Generating Company	0 Riverview Dr	23.18	FERC	101	118A-E
Firstlight Hydro					
Generating Company	0 Riverview Dr	20.40	FERC	101	119A-C
Firstlight Hydro					
Generating Company	0 Riverview Dr	2.00	FERC	101	120
Firstlight Hydro					
Generating Company	82 French King Hwy	2.06	FERC	102	26
Firstlight Hydro					
Generating Company	39 Oak St	0.86	FERC	102	31
Firstlight Hydro					
Generating Company	39 Oak St	0.34	FERC	102	32
Firstlight Hydro					
Generating Company	39 Oak St	0.64	FERC	102	33

Section 5 - Inventory of Lands of Conservation and Recreation Interest

Owner	Location	Acres	Protection	Assessor's Map	Assessor's Lot
Firstlight Hydro	On Connecticut River/				17A,C-
Generating Company	Barton Cove Facility	160.34	FERC	103	S,Z
Firstlight Hydro					
Generating Company	Rear Main Rd	26.75	FERC	203	6A-C
Firstlight Hydro					
Generating Company	Rear Main Rd	27.50	FERC	204	7A-D
Firstlight Hydro					
Generating Company	Rear River Rd	21.50	FERC	219	6A
Firstlight Hydro					
Generating Company	0 French King Hwy	4.00	FERC	224	43
Firstlight Hydro					
Generating Company	0 French King Hwy	28.50	FERC	228	9A-B
	TOTAL ACRES:	325.00			

Source: Town of Gill Assessor's Maps, 2018; 2018 OSRP Working Group.



The public can access Barton Cove via the public boat ramp or via the Barton Cove Campground and Canoe/ Kayak area owned by FirstLight Power.

Other than lands owned by FirstLight Power, there is relatively little privately-owned recreational land in the Town of Gill. Most of the properties are enrolled in Chapter 61B (234 acres), which is similar to Chapter 61 and 61A but is designed specifically for land in recreational use. Included in this category is the Oak Ridge Golf Course, owned by B &G Golf Associates, on West Gill Road.

Table 5-8: Privately Owned Temporarily Protected Open Space and Recreation Lands (61B)

Owner	Location	Acres	Assessor's Map	Assessor's Lot
B and G Golf Associates	231 West Gill Rd	17.64	214	9
Boyer Natalie	176 West Gill Rd	21.10	215	6
Dale Cynthia S.	0 French King Hwy	0.75	226	3
Dale Cynthia S.	0 French King Hwy	7.39	226	2
Draper William J.	38 Pisgah Mtn Rd	7.00	227	16.1
Holmes George E. Jr.	0 Main Rd	35.00	214	3.1
Kramer Susan J.	0 Cross Rd	16.74	210	14
Lemieux Noreen	119 River Rd	38.00	219	12
Meyer Timothy P.	53 Highland Rd	66.85	222	4
Putnam Jane	3 River Rd	24.00	212	9
	TOTAL ACRES	234.47		

Source: Town of Gill Assessor's Maps, 2018; 2018 OSRP Working Group.

B.2 Publicly Owned Open Space

Publicly owned protected open space makes up approximately 10 percent of all of the open space that has some level of protection in town. The following inventory includes those parcels that are owned by the Commonwealth of Massachusetts, the Town of Gill, and state conservation organizations.

State-Owned Open Space

A total of 274 acres of permanently protected publicly owned state land are located in Gill, accounting for 5.1 percent of the total amount of open space in Gill. This land includes open space owned by the Department of Conservation and Recreation and by the Department of Fish and Game. These lands are described in Table 5-9.

Table 5-9: State Owned Permanently Protected Land

Property Owner	Site Name	Assessor's Map	Assessor's Lot	Acres	Current Use	
DCR	Connecticut River Greenway State Park (CRGSP)	220	4	180.00	Conservation and Recreation	
DCR	CRGSP	228	1	14.20	Conservation and Recreation	
Department of Fish and Game	Barton Cove Boat Ramp	102	28	4.20	State Boat Ramp	
DCR	CRGSP	228	6	40.20	Conservation and Recreation	
DCR		224	41	5.20	Conservation and Recreation	
DCR		228	7	15.00	Conservation and Recreation	
DCR		224	30	15.10	Parking area next to Green River Honda	
TOTAL ACRES: 273.90						

Source: Town of Gill Assessor's Maps, 2018; 2018 OSRP Working Group.

Section 5 - Inventory of Lands of Conservation and Recreation Interest

Town-Owned Open Space

The Town owns four cemeteries, which are considered permanently protected from development, as shown in Table 5-10. In addition, the Town owns four parcels of permanently protected open space that make up the Town Forest, consisting of 176 acres or about 3 percent of the total open space in Gill, as shown in Table 5-11 on the following page.

Table 5-10 lists the cemeteries in Gill that are owned by the town and are permanently protected from development. Most cemeteries represent well-maintained open space areas that are sometimes appropriate for walking and bird watching. These parcels total almost 7.5 acres, a tiny percentage of the overall protected open space in Town.

Table 5-10: Town Owned Permanently Protected Cemeteries

Owner/Property Manager	Site Name/Location	Assessor's Lot	Assessor's Map	Acres
Town of Gill	North Cemetery/0 Main Rd.	204	15	1.80
Town of Gill	Center Cemetery/0 Main Rd.	212	1	0.80
Town of Gill	West Cemetery/0 Hoe Shop Rd.	214	11	0.47
Town of Gill	Riverside Cemetery/0 Main Rd.	224	6	1.60
Town of Gill	Riverside Cemetery/0 Main Rd.	224	7	2.80
		ТОТ	AL ACRES:	7.47

Source: Town of Gill Assessor's Maps, 2018; 2018 OSRP Working Group.

The Town of Gill also owns 60 acres of open space under limited protection, or 1 percent of the

total protected open space in Gill (see Table 5-12 below). These parcels are under the authority of the Select Board and are considered to have limited protection from development. If residents wanted to sell Town land for development, the Select Board or a Town Meeting vote could provide the authority.

It is not unusual for a community to set aside land for future expansion of schools, sports fields, police and fire stations, and drinking water supplies. Open space planned for these purposes might be used as open space today and placed under the authority of the Select Board. It may also be sensible



Slate Library is one of Gill's twelve town-owned parcels with limited protection.

to place town-owned land that clearly contains wetlands or wildlife habitat, but which does not provide for easy development, under the authority and protection of the Conservation Commission.

Table 5-11: Town-Owned Permanently Protected Land

Property Owner/ Manager	Site Name/ Location	Current Use	Condition	Recreation Potential	Public Access?	Type of Public Grant Received	Zoning	Degree of Protection	Acres	Assessor's Map	Assessor's Lot
Town of Gill/ Conservation Commission	Town Forest/ Hoe Shop Road	Conservation Recreation – hiking, birdwatching	Improved trails	Trails, hunting, fishing	Yes, but undeveloped	Donation from Franklin Land Trust	Residential- Agricultural	Permanent	61.00	208	1
Town of Gill/ Conservation Commission	Town Forest/ Hoe Shop Road	Conservation Recreation – hiking, birdwatching	Undeveloped	Trails, hunting, fishing	Yes, but undeveloped	Donation from Franklin Land Trust	Residential- Agricultural	Permanent	112.63	208	7
Town of Gill/ Conservation Commission	Town Forest/ Hoe Shop Road	Conservation Recreation – hiking, birdwatching	1	Trails, hunting, fishing	Yes, but undeveloped	Donation from Franklin Land Trust	Residential- Agricultural	Permanent	2.15	208	7.1
Town of Gill/ Conservation Commission	Town Forest/ 325 Main Road	Conservation Recreation – hiking, birdwatching	Undeveloped	Trails, hunting, fishing	Yes, but undeveloped	Donation from Franklin Land Trust	Residential- Agricultural	Permanent	2.59	208	7.2
	TOTAL ACRES							175.78			

Source: Town of Gill Assessor's Maps, 2018; 2018 OSRP Working Group.

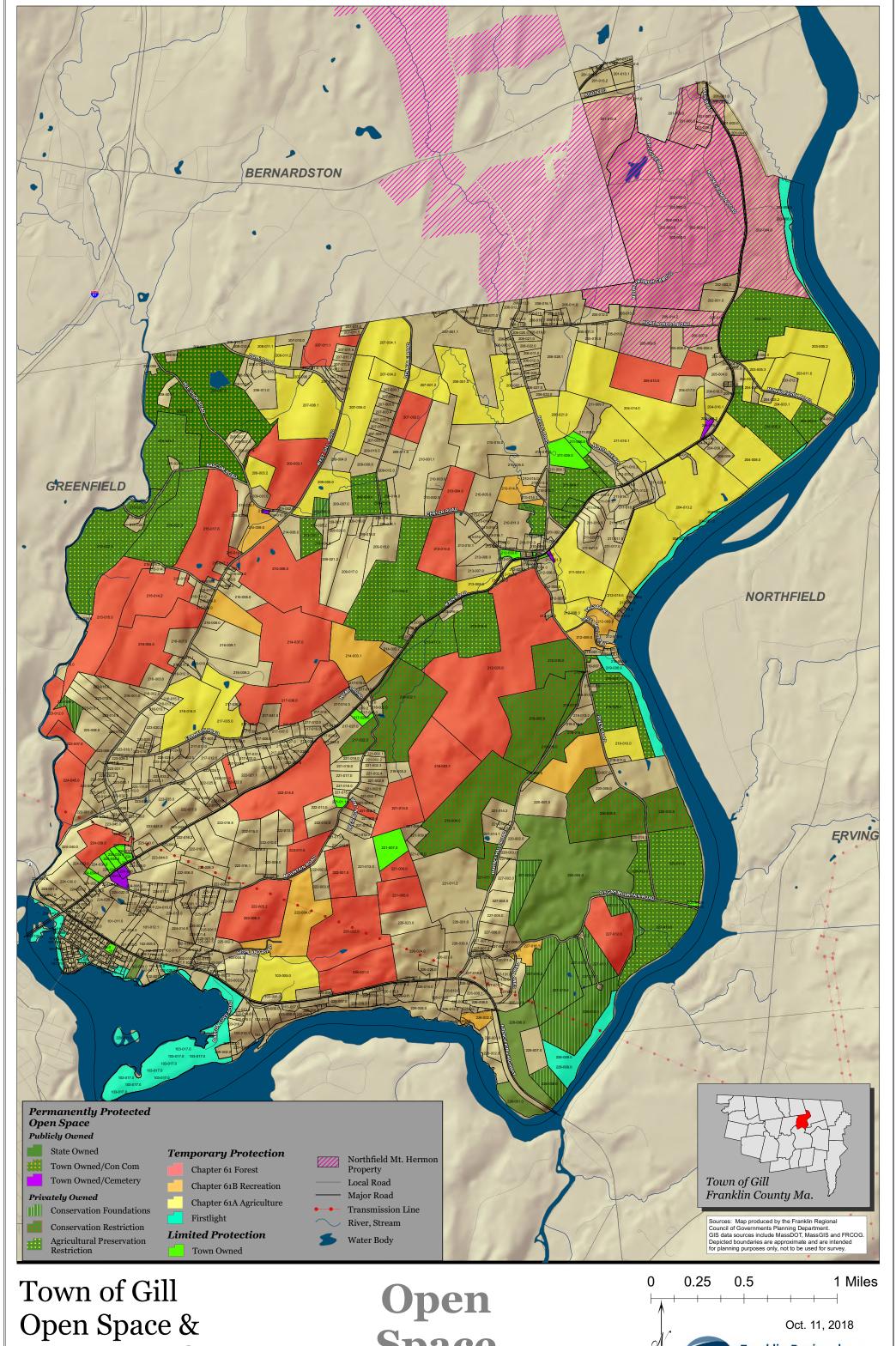
Table 5-12: Town-Owned Land Under Limited Protection

Property Owner/ Manager	Site Name/Location	Current Use	Condition	Recreation Potential	Public Access?	Type of Public Grant Received	Zoning	Degree of Protection	Acres	Assessor's Map	Assessor's Lot
				Ball fields, basketball,			Residential-			_	
	Riverside Municipal Building (Old	Historical Commission, Water District	,	potential site for rec facility			Agricultural				1
Town of Gill	Green School)	Playground, Private School	Good	and/or senior center	Yes	N/A	Ū	Limited	1.50	101	14
							Village				
Town of Gill	Riverside Sewer Pumping Station	Pumping Station	Good	None	No	N/A	Residential	Limited	0.12	101	117
				Playground structures, ball			Residential-				
Town of Gill	Elementary School	Elementary School	Good	fields	Yes	N/A	Agricultural	Limited	13.30	211	5
						N/A	Residential-				1
Town of Gill	Elementary School Nature Area	Education	Not maintained	Trails, education	Yes		Agricultural	Limited	6.60	211	6
						N/A	Residential-				1
Town of Gill	Slate Library	Library	Good	Site for educational events	Yes		Agricultural	Limited	0.80	212	2
				Outdoor public		N/A	Residential-				1
Town of Gill	Common	Events	Good	performances	Yes		Agricultural	Limited	0.32	212	26
						N/A	Residential-				<u> </u>
Town of Gill	Town Hall	Administrative	Good	Site for educational events	Yes		Agricultural	Limited	0.47	212	27
							Residential-				1
Town of Gill	Boyle Parcel (Center Road)	Hay field	Rented	Ball fields	No	N/A	Agricultural	Limited	2.90	212	30
							Residential-				1
Town of Gill	Municipal Building	Highway, Police, Fire	Good	None	No	N/A	Agricultural	Limited	4.30	217	20
							Residential-				1
Town of Gill	0 River Rd.	Undeveloped Land	Good	River access	No	N/A	Agricultural	Limited	1.00	220	12
							Residential-				1
Town of Gill	325 Main Rd.	Undeveloped Land	Good	Trails	No	N/A	Agricultural	Limited	17.00	221	7
							Residential-				34.1, 34.2,
				Educational or historical							34.3, 34.4,
Town of Gill	Mariamante	Undeveloped Land	Hayfield	site	No	N/A	Agricultural	Limited	12.00	224	34.5, 34.6
								OTAL ACRES	60.31		·

Source: MassGIS 2018; Town of Gill Assessor's Maps, 2018; 2018 OSRP Working Group.

Section 5 - Inventory of Lands of

Conservation and Recreation Interest



Recreation Plan 2020

Space



Section 6: Community Vision

Description of Process

The Town of Gill's open space and recreation goal statement was developed through the following planning process:

- In 2017, the Select Board approved an Open Space and Recreation Committee to update the 2011 Gill Open Space and Recreation Plan. The Committee held eight public meetings and a public forum.
- The Open Space and Recreation Plan Committee developed an Open Space and Recreation Survey in early 2020. The survey was advertised via the Town newsletter. The survey was also made available online through SurveyMonkey and a link to the survey was posted on the homepage of the Town of Gill's website. Paper copies of the survey were available at the Town Hall, the Slate Library, and at polling locations during the March 2020 Presidential Primary Election.
- Results of the survey along with the draft goals and objectives were presented at the public forum, held on December 21, 2020.
- The results of the survey and input from the Forum as well as analysis of existing conditions and the Inventory of Lands of Conservation and Recreation Interest were used as the basis for the development of the final goals statement as well as the final goals and objectives.
- The Open Space and Recreation Plan Committee developed draft sections of Gill's Open Space and Recreation Plan with input from members of the community. The Committee was comprised of the Town Administrator, Town Clerk, representatives of the Conservation Commission, Energy Commission, Cemetery Commission, and residents.
- There was a two-week public comment period following the Public Forum, in which comments were incorporated into the draft plan.

See the Appendix for meeting sign in sheets, agendas and a copy of the survey and its detailed results.

Vision Statement of Open Space and Recreational Goals

General Open Space and Recreational Goals

People live in Gill in part because they like its rural, small town character. According to the 2020 Open Space and Recreation Survey, respondents highly value the open fields and working farms, forests and trails, and rivers and streams. Many respondents of the survey (over 40%) said that they would be willing to donate money or pay higher taxes for the town to protect additional land.

Residents who responded to the Open Space and Recreation Survey and participated in the process of developing this Open Space and Recreation Plan confirmed that the vision from the

2011 OSRP still remains a valid future for Gill's natural, recreational and agricultural resources and its economic vitality.

Vision Statement

In a vision of its future, the Town of Gill will preserve its valued agricultural landscapes and working farms and forests and support sustainable economic development that protects the Town's natural, historic, and cultural resources, strengthens the tax base, and provides goods, services, and jobs for its residents. The Town will support a proactive planning process that encourages land uses to sustain the health of its waters, forests, wildlife and working farms and forests, preserves historic resources and that identifies areas appropriate for carefully planned commercial and industrial development. The Town will also identify ways in which working farms, forests, and waterways could contribute to the Town's economic development by potentially supporting agritourism and ecotourism.

The Town will strive to provide more information to residents on options to protect open spaces to assist landowners and developers in designing projects that sustain and enhance the community's shared assets and character. The Town will also strive to enhance the recreational experiences of its school children – and of all citizens – by supporting improved recreational opportunities and/or facilities. This Open Space and Recreation Plan is a vital component of a proactive, sustainable land planning and development process that will strive to effectively and equitably manage growth and development in Gill while preserving natural resources and wildlife habitat, historic features, scenic roads and vistas, and recreational opportunities for current and future residents of the town.

Goals

From this Vision Statement, several broad goals emerge. They include:

- Protecting Gill's natural, recreational and agricultural resources;
- Responding to the needs of farmers and foresters;
- Maintaining or improving recreational programs and facilities, particularly programming for youth;
- Collaborating with other entities to protect Gill's open space and recreational resources;
- Supporting economic development.

Section 7: Analysis of Needs

The Gill Open Space and Recreation Plan incorporates the inventory of all the land-based cultural, historic, scenic, natural, archeological, and natural resources available in town (Section 4), identifies the areas containing these resources (Section 5), and, based on the community's general goals (Section 6), makes comparisons between the supply of resources and the demand (Section 7). In **Summary of Natural Resource Protection Needs**, the most important environmental issues are highlighted. In **Summary of Community's Needs**, the recreation and open space needs of the residents are discussed. Finally, in **Management Needs**, the obstacles to the effective resolution of these needs are addressed.

Summary of Natural Resource Protection Needs

The Town of Gill has an impressive number of cultural, historic, scenic, natural, archeological, and natural resources, many of which are shown in the Scenic Resources & Unique Environments Map at the end of Section 4. Residents said in the 2020 Open Space and Recreation Survey the three most important natural resource protection priorities for Gill should be:

- 1) Protect drinking water resources;
- 2) Encourage agriculture / protect farmland; and
- 3) Protect forest land.

The most efficient and effective way the Town of Gill could work towards achieving all three of these priorities is to actively continue public outreach and education on land protection options and work on developing criterion to help prioritize additional parcels for protection. Protection of land may become particularly important due to the ongoing COVID-19 pandemic. A potential consequence of the pandemic is there may be increased development pressures in rural towns with broadband, such as Gill, where people can live in a sparsely populated area, while being able to work from home. It is important to note in the 2020 survey many residents supported the idea of increasing the amount of permanently protected open space in town. Figure 7-1 below shows the various ways in which residents are willing to protect open space.

To permanently protect open spaces in Town, I would be willing to: 50.00% Donate money for the Town to ouy land 45.00% Pay higher takes for the Town to: 40.00% buy/protect land 35.00% ■ Not sure Would like more information on preserving land. 30.00% Other (please specify) 25.00% 20.DOW

15.00%

1000%

5.00%

0.00%

Sell or contribute a conservation.

Donate some of my land to the

Sell my land at a discounted price

restriction to limit future nevelopment on my lamit

Figure 7-1: Gill 2020 Open Space and Recreation Plan Public Survey, Land Protection Strategies

Gill's landscape, in the form of forestland, farmland, and open fields, offers great benefits to protecting its drinking water. Fortunately, one of the best ways to protect water quality is to also protect forest lands – the third highest priority for survey respondents. To better target the protection of these resources, the Town of Gill may want to focus on continuing the good working relationships with regional land trusts for the purpose of assigning the Town's right-of-first refusal in the event a key parcel of land has important water quality protection assets. Often land trusts are able to bring together sources of income and potential buyers of land and development rights in a shorter time frame than if the Town were to try on its own. By being prepared, Gill may be more likely to see the preservation of choice parcels of forest containing wildlife habitat and other important natural resources. By setting aside town funds toward future land conservation projects, the Town will be able to react faster in the event matching funds are needed for a potential preservation project.

Responses

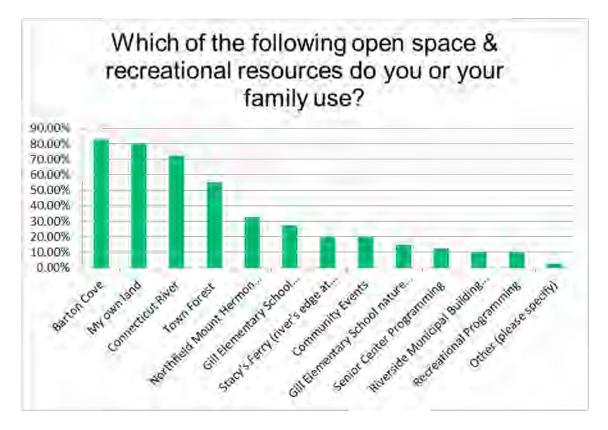
Of all its resources, one in particular has been discussed repeatedly throughout the planning process. As the demand for local food continues to grow in Franklin County, and as the number of small, diversified farms continues to increase, residents of Gill identify agricultural land as one of their most valuable resources. In some ways, Gill is well positioned to continue to grow its small, diversified farms and to continue to preserve agricultural land. Currently, over 800 acres of land containing prime farmlands is permanently protected and an additional 1,100 acres of agricultural land is temporarily protected under Chapter 61A. Where farming and farmland protection is concerned, one of the best resources Gill has is its active Agricultural Commission. Another consequence of the COVID-19 pandemic is the increased awareness of food security

and the importance of local farms and food supply. This should have a beneficial impact on Gill's farms and farm stands as people seek fresh food grown close to home.

Summary of Community Needs

Planning for a community's open space and recreation needs must satisfy the present population's desires for new facilities, spaces, and services, and also must interpret and act on the available data to prepare for the future needs of Gill residents. Although the Gill Open Space and Recreation Plan will be updated again in seven (7) years, the types of actions identified in Section 9 will take into account the needs of the next generation as well. The following Figure 7-2 shows which recreational and open space resources in town are the most and least used from the 2020 Open Space and Recreation Plan Survey.

Figure 7-2: Gill 2020 Open Space and Recreation Plan Public Survey, Recreational Resources





Children enjoy an unseasonable warm fall day at Gill Elementary School.

As shown in Figure 7-2, most people recreate on their own land, while the Connecticut River, Barton Cove and the Town Forest are also popular resources. The survey was conducted and finished during the earliest part of the COVID-19 pandemic, before many people truly understood quarantine, isolation, and social distancing. Based upon the heavy demand for Town Forest trail maps during the spring, summer, and fall of 2020, use of the Town Forest has boomed during 2020 and it is likely the Town Forest would rank higher in a survey conducted today. Most respondents (48%) said existing recreational facilities are in a good condition, while only 15% said they need improvement. A community need that was identified is better recreational options, particularly for those attending the Gill Elementary School. The Gill Elementary School nature trail, after a period of disrepair, has again become a source of recreation, education, and enjoyment after a parent group revived the trails a few years ago. Action items to address these deficiencies, including assessing the possibility of a new recreational facility for the school and/or community are included in the Action Plan.

The Connecticut River is an excellent natural resource that is the focus for recreational activities for Gill residents. As shown in Figure 7-3 below, the most popular activity on the Connecticut River is canoeing and kayaking. Residents can access the River via the public boat launch in the Riverside area. An additional access point in town is the little-used Stacy's Ferry, a one-acre Town-owned property. Stacy's Ferry was identified as a recreational area in need of improvement. Assessing strategies for improving Stacy's Ferry are included in the Action Plan. Some ideas include better non-power boat access to the river, a picnic area, and a park.

Does your household use the Connecticut River for the following activities: 100.00% 90.00% 80.00% 70.00% 60.00% 50.00% 40.00% 30.00% 20.00% 10.00% 0.00% Boating, non Swimming Boating, power Fishing Water skiing power

Figure 7-3: Gill 2020 Open Space and Recreation Plan Public Survey, Connecticut River

Protecting rivers and streams – particularly the Connecticut River – has been a priority in Gill for many years. As discussed in Section 4 in **Erosion on the Connecticut River**, ongoing riverbank stabilization projects have been conducted in Gill since the mid-1990s. Gill has had landowners serve as representatives on the Connecticut River Streambank Erosion Committee. The Town could continue to support a representative – potentially from the Conservation Commission – to serve on the Committee.

The Town of Gill could also encourage residents to participate in the annual Connecticut River Source to Sea Clean Up. Involving youth – including students from Gill Elementary, Four Winds School, and Northfield Mount Hermon School – in this program could help plant a seed for good stewardship of Gill's natural resources and the natural resources wherever these students reside as adults. Action items relating to protecting river and streambanks include joining the Connecticut River Streambank Erosion Committee and exploring model floodplain protection bylaws.

Summary of Management Needs

The survey asked how well publicized recreational programs and facilities are in town. About 41 percent said they were aware of the recreational and open spaces resources listed in the survey, while 58 percent said they were not aware. The Committee discussed improving publicity by contributing a regular OSRP column to the quarterly Gill Newsletter and developing a guide to

OSRP facilities and programs for the Town's website. These strategies are included in the Action Plan.

Nearly all respondents think the recreational facilities in Gill are well-maintained. Parent volunteers have assisted with improvement at the Gill Elementary School playground and refurbishment of the nature trail at the School. Upgrading Stacy's Ferry is another recreational desire. Residents were also asked to list any additional recreational facilities or activities they would like to have in Town. Responses include:

- Hiking/mountain biking trails
- Swimming/pool area
- Paths for walking, biking, cross country skiing or snow shoeing
- Picnic area
- Summer town party/festival
- Dog park
- Playground at the Riverside Municipal Building

The creation of trails is a topic that came up during Committee meetings as well. Therefore, forming a trails committee and producing a trails map are included in the Action Plan.

Implementing the 2020 Open Space and Recreation Action Plan will require the support of the community and the oversight of an active, permanent OSRP Committee. Perhaps the most pressing management need is community support, an active, ongoing OSRP committee, and the support of such entities as the Select Board, Planning Board, Conservation Commission, Historical Commission, and Agricultural Commission. Strong and diplomatic leadership of the OSRP Committee will be key to good public involvement and successful implementation of the Action Plan over the coming years.

The Town's commitment to encouraging a permanent Open Space and Recreation Committee could be a next step in the process of achieving some of the natural resource protection and recreation needs. The Committee could continue the work started during this Plan update process by providing leadership to follow through on several key action items to address balancing conservation and recreation needs with some development.



Barton Cove provides a peaceful setting for a pair of fall fishermen.

Americans with Disabilities (ADA) Act Findings

The Town of Gill conducted an ADA Self-Evaluation and Implementation Plan in 2018 of all town-owned buildings and facilities. This included the recreational facilities of the Town Forest and school playgrounds. The school playground, in particular, needs to be improved to become more accessible. The findings can be found in Appendix D.

Park and Open Space Equity

Traditional measures of park and open space equity assess whether environmental justice populations in urban areas have the same access to open space and recreation resources as others in their community. Measuring park and open space equity is difficult in small, rural towns. In the case of Gill, no environmental justice populations are identified. These populations, as defined by the Executive Office of Energy and Environmental Affairs, are made up of "high minority, non-English speaking and low-income neighborhoods".

Where Gill is concerned, there are few established parks and other public recreation spaces. However, the established parks and recreation spaces are distributed relatively equally throughout town. In the north part of Gill, the Northfield Mount Hermon School's recreational facilities are available for residents to use, albeit on a rather limited basis (and not at all during the COVID-19 pandemic). There are also hiking trails throughout the NMH School property, which are available for residents to use. In Gill Center, the Gill Elementary School's nature trail is available to the public and is an excellent open space and recreation resource. In the Riverside area of Gill, the Riverside Municipal Building's recreation field is open to the public. The boat ramp in Barton Cove is also a recreational resource open to all residents. Walking trails in the Town Forest, the FirstLight-owned Barton Cove recreation area, and state forest land off Pisgah Mountain Road are also publicly available.

Additionally, there is much open space everyone has access to, either through ownership or through permission of friendly neighbors. And, as shown in the OSRP Public Survey, 80% of respondents indicated their own land is the most often used "recreation area or program" in Gill. Easy access to open space is one measure of open space and recreation equity in Gill.

As the population of Gill continues to age, as is the trend in town and throughout the country, there may be more pressure placed upon the town to provide open space and recreational activities for older citizens. Any future development of land or facilities for open space and recreation should include careful consideration of access for older citizens, as well as for those with disabilities. These needs should be also addressed as a matter of course under ADA requirements. However, specific programs could be specifically targeted at those citizens with special needs. Gill's Council on Aging is a member of the Gill Montague Senior Center – through which many activities for seniors are offered, including lunches and fitness programs.

The recreational needs of teenagers in Gill are currently being met through the regional high school and middle school located in Turners Falls. There are also many teen-oriented programs available nearby in Greenfield. Some of the nearby recreational resources all residents can enjoy include:

- Snowmobile Network¹: Bernardston Gill Leyden Snowmobile Club
- Recreational Resources at Northfield Mount Hermon
- Northfield Mountain Recreation and Environmental Center²:

 Northfield Mountain is a four-season recreation facility situated along a beautiful sweep of mountainside, with satellite facilities strung along a 7-mile stretch of the Connecticut River. Spend a day cross-country skiing, hiking and mountain biking on 26 miles of trails. Camp at Barton Cove, where you can put in for canoeing or kayaking, and hop on an upriver canoe shuttle at the Barton Cove recreation area. Take an interpretive riverboat cruise on the 44-seat Heritage Riverboat. Other offerings include public picnic areas, camping for boaters at Munn's Ferry, rock climbing at Rose Ledge and a fishway for springtime viewing of thousands of migrating fish.

Regional Strategies for Open Space, Natural and Recreational Resource Protection

A variety of state and regional studies have been completed, which can help the Town of Gill further identify local recreation and land protection priorities. The Commonwealth completed the Statewide Comprehensive Outdoor Recreation Plan (SCORP), *Massachusetts Outdoors 2017*. SCORP plans are developed by individual states to be eligible for federal Land and Water Conservation Fund (LWCF) grants and serve as a tool for states to use in planning for future needs and uses of outdoor resources for public recreation and relaxation. As part of the update process to the 2017 SCORP, a survey of Massachusetts residents was conducted to assess their desires and needs for outdoor recreation. The surveys show the top priority for survey respondents is the desire for more trails of all kinds. Respondents said they want more town-wide

¹ https://bglsnow.com/

² https://www.firstlightpower.com/recreation/

trail systems, hiking trails, and multi-use trails for both walking and bicycling. These priorities reflect the responses from the 2020 Open Space and Recreation Survey distributed to Gill residents.

In 2009, the Franklin Regional Council of Governments completed a corridor management plan for the 29-mile eastern portion of the Mohawk Trail Scenic Byway (Route 2) from Greenfield to Athol. The vision for the plan is to expand economic, tourism and recreational opportunities along the Byway while educating people about the Byway and preserving its unique scenic qualities, natural resources, historical structures/places, industrial and agricultural heritage and community character.

Section 8: Goals and Objectives

The following goals and objectives were formulated from the results of the 2020 Gill Open Space and Recreation Planning Survey and were reviewed and modified through the public meetings of the Gill Open Space and Recreation Committee. Review of the 2011 Gill Open Space and Recreation Plan, the 2004 Gill Community Development Plan, the as well as public input and comment were also considered in the formulation of the goals and objectives.



Improvements to the Gill Elementary School nature trail are included in Goal 3.

To help achieve this Open Space and Recreation Plan's goals and objectives, a Seven-Year Action Plan is included in Section 9. The Action Plan includes responsible parties and potential funding sources as well as projected start dates. Establishing an ongoing Open Space and Recreation Committee is critical to a successful implementation of the Action Plan. The following objectives are listed in prioritized order.

Goals and Objectives

GOAL 1:

Ensure that the Town of Gill continues to protect its valued cultural, historical, scenic, and archeological resources through conservation and stewardship.

Objectives Related to Goal 1:

- Prioritize areas in Gill with significant cultural, historical, scenic, archeological resources so that town officials and residents can act efficiently when a parcel of land containing such resources becomes available for protection.
- Encourage landowners interested in protecting their land from development to work with Franklin Land Trust, Mount Grace Land Conservation Trust, with state and federal conservation agencies, and with the Town of Gill.

GOAL 2: Ensure that the Town of Gill continues to protect its valued natural resources (including water resources, wildlife habitat, forests and farmlands), while responding to the needs of farm and forest landowners and of other businesses producing local products in Town.

Objectives Related to Goal 2:

- Continue to protect river and stream banks, particularly the portions of the Connecticut River bank subject to chronic erosion.
- Explore the options for encouraging agritourism in Gill.
- Support the marketing of Gill farm and forest products as well as other locally produced products.
- Consider ways that the town might support agricultural and forest operations as they would other commercial or industrial businesses in town.
- Explore revisions and updates to Gill's "Conservation Development" zoning bylaw that would result in greater protection of valued "natural and cultural resources" and, which could also help to ensure any land development provides benefits that reflect the town's natural resource conservation goals.
- Build a comprehensive biological and geological inventory in selected areas of Gill using community volunteers.
- Support the training of local volunteers in vernal pool certification for students and citizens.
- Explore the potential for developing a private conservation land trust or land fund for Gill.
- Encourage a connection between Gill farmers and foresters and Gill's school children to foster knowledge of natural systems in children and to help satisfy any unmet recreational needs of children in an innovative manner.

GOAL 3: Ensure that the Town of Gill maintains or improves the quality and accessibility of all its recreational facilities and programming.

Objectives Related to Goal 3:

- Evaluate the needs of all municipal recreational facilities and properties.
- Support the development of multi-use and limited-use trail systems, which can be accessed from publicly owned land or private lands with permission.
- Explore the feasibility of developing a new recreational facility for Gill Elementary School and residents of Gill.
- Promote existing and future recreational facilities and services.
- Continue to cooperate with private entities in town such as FirstLight, Gill-Montague School District, The Nature Conservancy, and Northfield Mount Hermon School that provide recreational facilities used by Gill residents.
- Identify recreational needs of residents of all ages and develop new programs and facilities as appropriate.

GOAL 4: Ensure that the Town of Gill residents and Town officials successfully work together and with others to guide the conservation of open space and recreation resources.

Objectives Related to Goal 4:

- Form a permanent Open Space and Recreation Advisory Committee.
- Conduct public outreach regarding the activities of the Open Space and Recreation Advisory Committee.
- Explore opportunities to partner with local, regional, and statewide land conservation organizations and agencies to better leverage limited town dollars and volunteer hours towards the conservation of priority resource areas.

GOAL 5: Identify ways to balance open space and recreation resources preservation in Gill with commercial and industrial development to ensure an adequate tax base to support the Town.

Objectives Related to Goal 5:

- Provide support and planning to individuals wishing to start new commercial or industrial businesses.
- Identify suitable areas to pursue additional commercial or industrial businesses in town.
- Determine what types of businesses, products and services are supported in town.

Section 9: Seven-Year Action Plan

This Seven-Year Action Plan on the following pages is intended to provide concrete steps towards implementing the goals and objectives discussed in previous sections of this Open Space and Recreation Plan. The Action Plan restates the goals and objectives followed by prioritized recommended actions, potential funding sources, the board or group responsible for implementation, and projected start dates. By implementing the recommended actions, each of the objectives will begin to be realized. The Action Plan Map at the end of this section is a graphical representation of highlights of the Action Plan.

Successful implementation will require the participation of existing town boards, committees and staff, including, but not limited to: the Open Space and Recreation Committee, Board of Selectmen, Planning Board, Conservation Commission, Historical Commission, and Agricultural Commission. Successful implementation will also require the collaboration of the town with other local and regional entities working in the town and the surrounding area such as the Connecticut River Watershed Council, Mount Grace Conservation Land Trust, Franklin Land Trust, the Franklin Regional Council of Governments (FRCOG) and the Natural Resources Conservation Service (NRCS).

Accomplishing the actions identified in this section will require time and commitment from dedicated volunteers. Forming an ongoing Open Space and Recreation Advisory Committee is critical to this Plan's success. Where money is required, it may be sought from state and federal governmental agencies, private non-profit conservation agencies, foundations, and individual donations in addition to municipal funds. A broad base of community support for the Open Space and Recreation Plan should facilitate the fundraising which may be needed to implement the action items.

Gill Open Space and Recreation Plan – Seven-Year Action Plan

GOAL/OBJECTIVES	ACTIONS	NOTES / STATUS OF ACTION ITEM IF CARRIED OVER FROM 2011	POTENTIAL FUNDING SOURCES	RESPONSIBLE BOARD/ GROUP	PROJECTED START DATES
GOAL 1: Ensure that the Town	of Gill continues to protect its valued cultural, historical, scenic, an	d archeological resources through	conservation and stewar	dship.	
Prioritize areas in Gill with significant cultural, historical, scenic, archeological so that town officials and residents can act efficiently when a parcel of land containing such resources becomes available for protection.	Develop a list of criteria which, if identified on a parcel being offered as a donation or for sale in Town, would signify priority for action. If the parcel is under Chapter 61, 61A, or 61B, this could trigger the town's official consideration of its right-of-first-refusal to acquire or otherwise seek to conserve a parcel of land.	Not started.	Town, Direct Local Technical Assistance (DLTA), Volunteers	Open Space and Recreation Advisory Committee, Conservation Commission, Agricultural Commission	2021
	Develop a protocol for how the town would consider using its right-of-first-refusal (or assigning the right to a conservation land trust or conservation agency) regarding Chapter lands that are put up for sale for development.	Not started.	Town, DLTA, Volunteers	Open Space and Recreation Advisory Committee and Select Board	2022
	Using the list of criteria and the GIS maps in the Gill Open Space and Recreation Plan, identify general areas of conservation interest that would be considered to be priority areas with significant cultural, historic, scenic, natural, and archeological resources.	Not started.	Town, DLTA	Open Space and Recreation Advisory Committee and Conservation Commission	2022
	Meet with local land trusts to better understand the details of holding conservation restrictions and provide training for Town boards and other interested parties.	Not started.	Town, Local land trusts	Open Space and Recreation Advisory Committee, Select Board, Conservation Commission, Land Trusts	2022
	Implement, publicize, and monitor the effectiveness of the Gill Historical Commission's Archaeology Accountability Policy adopted in 2015.	New in 2020	Town, Volunteers, Massachusetts Cultural Council	Historical Commission	2021 (ongoing process)
	Include an annual "what's new in land conservation in Gill" article in the quarterly Gill Newsletter.	Not started.	Town, Volunteers	Open Space and Recreation Advisory Committee,	2021
	Along with prioritizing areas to protect, prioritize areas not to protect so that some development is possible. See also Goal 5.	Not started.	Town, Volunteers	Planning Board, Open Space and Recreation Advisory Committee, Development Committee (yet to be formed)	2022
Encourage landowners interested in protecting their land from development to work with Franklin Land Trust, Mount Grace Land Conservation Trust, with state and federal conservation agencies, and with the Town of Gill.	Invite Mount Grace Land Conservation Trust and Franklin Land Trust to a town forum to provide a presentation on their current activities and on the assistance they have to offer to Gill landowners.	Mount Grace and Franklin Land Trust did hold presentations in 2010. This is still an education action item and should remain in the plan.	Volunteers or supported by land trusts.	Open Space and Recreation Advisory Committee	2022

GOAL/OBJECTIVES	ACTIONS	NOTES / STATUS OF ACTION ITEM IF CARRIED OVER FROM 2011	POTENTIAL FUNDING SOURCES	RESPONSIBLE BOARD/ GROUP	PROJECTED START DATES
GOAL 2: Ensure that the Town of landowners and of other businesses	of Gill continues to protect its valued natural resources (including producing local products in Town.	water resources, wildlife habitat, for	rests and farmlands), w	hile responding to the needs	of farm and forest
Build a comprehensive biological and geological inventory in selected areas of Gill using community volunteers.	Work with the Massachusetts Association of Conservation Commissions (MACC) to coordinate annual spring walks to inventory animals, insects, fish, plants, trees and significant geological features in the Town Forest.	An inventory of fern species in the Town Forest was conducted in 2019-2020	Town, Volunteers, Town Forest trust fund, Massachusetts Cultural Council	Open Space and Recreation Advisory Committee, Town Forest Committee, Conservation Commission and MACC	2021 (ongoing process)
	Explore support for joining FRCOG's Regional Pollinator Habitat Corridor Project.	New in 2020	Town, Volunteers, Direct Local Technical Aid	Residents, Agricultural Commission, Select Board	2021
Support the training of local volunteers in vernal pool certification for students and citizens.	Encourage Northfield Mount Hermon and Gill-Montague Schools and residents to participate in a training program in vernal pool certification.	Not yet done. Still relevant.	Town, Volunteers, State funds (MVP)	Open Space and Recreation Advisory Committee, Gill- Montague School	2023
Explore revisions and updates to Gill's "Conservation Development" zoning bylaw that would result in greater protection of valued "natural	Request the Franklin Regional Planning Board – or Citizen Planner Training Collaborative (CPTC) - to present a program on zoning bylaws for the conservation of "natural and cultural resources" and encourage Gill residents to attend the meeting.	Not yet done. Still relevant.	UMass Extension Citizen Planner Training Collaborative	Planning Board and Open Space and Recreation Advisory Committee	2023
and cultural resources" and, which could also help to ensure any land development provides benefits that reflect the town's natural resource conservation goals.	Develop, publicize, and if received well by the residents of Gill, seek to adopt bylaw changes that will help to expand protection of valued "natural and cultural resources."	Not yet done. Still relevant.	Direct Local Technical Aid through Department of Housing and Community Development	Planning Board	2024
	Revisit the benefits of conservation/cluster development and determine whether current conservation development zoning is still the best option for Gill.	Not yet done. Still relevant.	Direct Local Technical Aid through Department of Housing and Community Development	Planning Board	2023
Explore the potential for developing a private conservation land trust or land fund for Gill.	Committee as a first step to understanding the value and risks associated with having a local land trust. Include members of former and merged small land trusts to understand the evolution and life cycle of such organizations.	Revised for 2020	Town, Volunteers	Open Space and Recreation Advisory Committee	2023
	Further explore the possibility of adopting the Community Preservation Act.	Not yet done. Still relevant.	Town, Volunteers	Select Board, Planning Board, Historical Commission, Board of Assessors, Tax Collector	2022

GOAL/OBJECTIVES	ACTIONS	NOTES / STATUS OF ACTION ITEM IF CARRIED OVER FROM 2011	POTENTIAL FUNDING SOURCES	RESPONSIBLE BOARD/ GROUP	PROJECTED START DATES
Continue to protect river and stream banks, particularly the portions of the Connecticut River bank subject to chronic erosion.	Participate in the Connecticut River Streambank Erosion Committee.	Ongoing.	Town, Volunteers	Conservation Commission	Ongoing
	Take an active role in the FERC relicensing process for FirstLight's hydroelectric facilities and strongly advocate for riverbank stabilization and erosion mitigation measures to be included in the new 50-year operating licenses.	New in 2020 but ongoing since 2014.	Town, Volunteers, DLTA, FRCOG, Connecticut River Conservancy, Connecticut River Watershed Council, Landowners	Select Board, Conservation Commission, Landowners	2021
Consider ways that the town might support agricultural and forest operations as they would other commercial or industrial businesses in town.	At Town Meeting, vote to set aside funding each year for agricultural and forestland conservation.	Ongoing.	Town	Agricultural Commission, Conservation Commission, Town Administrator, Select Board, Finance Committee	2022 and ongoing annually
Support the marketing of Gill farm and forest products as well as other	Broaden publicity for events that feature local products to attract attendees from area towns.	Item is underway and is ongoing.	Volunteers, local farmers	Agricultural Commission	Ongoing
locally produced products.	Support farm-to-table relationships between Gill farms and local restaurants.	New in 2020	Volunteers, local farmers, DLTA, MDAR, school lunch programs	Agricultural Commission	2022
	Organize Gill Fall Picnic as a venue to showcase local agricultural products and foster community spirit.	Started in 2018	Volunteers, Town, State funds (Mass Food Trust or Ventures Program)	Agricultural Commission, Friends of Gill	2018 and ongoing annually
Explore the options for encouraging agritourism in Gill.	Consider hosting a farm tour to highlight farm products and strengthen the connection between farmers and potential and/or existing customers.	Begun and ongoing.	Volunteers, local farmers, State funds (Mass Food Trust or Ventures Program)	Agricultural Commission	Ongoing
Encourage a connection between Gill farmers and foresters and Gill's school children to foster knowledge of natural systems in children and to help satisfy any unmet recreational needs of children in an innovative manner.	Evaluate whether there is a way in which some of Gill school children's recreational needs could be met through field trips to farm or forest operations.	Item is underway and is ongoing.	Volunteers, MDAR, Massachusetts Cultural Council	Agricultural Commission, Open Space and Recreation Advisory Committee, Gill Elementary School Staff	Ongoing

GOAL/OBJECTIVES	ACTIONS	NOTES / STATUS OF ACTION ITEM IF CARRIED OVER FROM 2011	POTENTIAL FUNDING SOURCES	RESPONSIBLE BOARD/ GROUP	PROJECTED START DATES
GOAL 3: Ensure that the Town	of Gill maintains or improves the quality and accessibility of all its	recreational facilities and progran	ıming.		
Evaluate the needs of all municipal recreational facilities and properties.	Inventory and assess all existing recreational facilities, properties and programs and implement transition plan recommendations.	ADA assessment conducted in 2018	Town, Volunteers, Community Compact Commission, State funds (MOD)	Open Space and Recreation Advisory Committee, Town Administrator	2018 and ongoing
	Partner with Northfield Mount Hermon and the Gill-Montague School System to work on making their recreational facilities available to Gill residents during the week.	Not yet started.	Town, Volunteers	Open Space and Recreation Advisory Committee, Northfield Mount Hermon representative, Gill- Montague School representative	2023
	Explore the feasibility of improving the Stacy's Ferry public land for use as park, picnic area and river access for kayaks and canoes, including ADA accessibility.	Not yet started.	Town, Volunteers, State funds (PARC or DCR grants), FirstLight	Open Space and Recreation Advisory Committee, Select Board, Conservation Commission	2021
	Support re-establishment of a Recreation Committee	New in 2020.	Town, Volunteers, Recreation Committee Revolving Fund	Select Board, Finance Committee, Town Administrator	2021 or as residents step forward to volunteer
Explore the feasibility of developing a new recreational facility for Gill Elementary School and residents of Gill.	Apply for an MA Parkland Acquisitions and Renovations for Communities (PARC) Program grant to fund the development of a new recreational facility for Gill Elementary School and for residents of Gill.	Not yet started. Still relevant.	MA Division of Conservation Services, Town, Gill Elementary PTO, Community Donations	Open Space and Recreation Advisory Committee, Gill Elementary PTO, Select Board, School Committee	2023
	Monitor conditions, maintain, and upgrade Riverside School recreation facilities and encourage more use of them.	Revised in 2020.	Town, Volunteers, Four Winds School, State funds (PARC)	Open Space and Recreation Advisory Committee, Town Administrator	2021 (ongoing process)
	Support the repair and ongoing maintenance of the Gill Elementary School nature trail.	Parent volunteers began the work in 2017.	Town, Volunteers, MA Division of Conservation Services (PARC)	Gill Elementary parent volunteers, Conservation Commission	2017 (ongoing process)
Promote existing and future recreational facilities and services.	Submit a regular "Open Space and Recreation" column to the Gill Newsletter.	Several articles about the Town Forest have appeared since 2015.	Volunteers	Recreation Committee, Open Space and Recreation Advisory Committee, Town Forest Committee	Ongoing.

GOAL/OBJECTIVES	ACTIONS	NOTES / STATUS OF ACTION ITEM IF CARRIED OVER FROM 2011	POTENTIAL FUNDING SOURCES	RESPONSIBLE BOARD/ GROUP	PROJECTED START DATES
	Develop a guide to facilities, programs, and trail systems in town.	Town Forest trail map and brochure published in 2018.	Town, Volunteers, Town Forest trust fund, State funds (DCR Stewardship grant)	Recreation Committee, Open Space and Recreation Advisory Committee, Town Forest Committee, Volunteer with graphics skills	Ongoing.
	Develop a one-page, easily reproduced flyer that shows the locations of different recreational facilities in and around Gill. Mail to all residents each year as part of a regular Gill Newsletter mailing.	Not yet done. Still relevant.	Town, Volunteers, DLTA, Public Health grants	Recreation Committee, Open Space and Recreation Advisory Committee, Volunteers	2023
Continue to cooperate with private entities in town such as FirstLight, Gill-Montague School District, The Nature Conservancy, and Northfield Mount Hermon School that provide recreational facilities used by Gill residents.	Include FirstLight, the Gill-Montague School District, The Nature Conservancy, and Northfield Mount Hermon School as well as other entities on the mailing lists for meetings of the Open Space and Recreation Advisory Committee and the Recreation Committee as a way of communicating the town's interest in a mutually beneficial relationship with these organizations.	Not yet done. Still relevant.	Town, Volunteers	Recreation Committee, Open Space and Recreation Advisory Committee	2022
	Request FirstLight to host an annual outdoor education program at one of its Gill properties.	New in 2020.	FirstLight	Open Space and Recreation Advisory Committee, FirstLight	2022
Support the development of multi-use and limited-use trail systems, which can be accessed from publicly owned land or private lands with permission.	Encourage the formation of a non-municipal trails committee.	Not yet done. Still relevant.	Town, Volunteers, DCR funding for trail access over private lands (MassTrails)	Volunteers	2022
	Inventory and map the existing system of largely informal trails on Town and State-owned land.	Town Forest trail map published in 2018	State funds (MassTrails), DLTA	Town Forest Committee, Trails Committee	2023
	Use the Gill Newsletter to promote a meeting on trails and trail development. Gauge interest among landowners for allowing public access and the creation of new trails in town. If interest is strong, encourage a secondary meeting to establish a course of action.	Not yet done. Still relevant.	Town, Volunteers, DCR funding for trail access over private lands (MassTrails)	Recreation Committee and Open Space and Recreation Advisory Committee, Volunteers	2022
	Establish a public access trail along the Fall River from the Town Forest (Gill/Bernardston town line) to the confluence of the Fall and Connecticut Rivers in Factory Hollow.	New in 2020.	Town, Volunteers, MA Division of Conservation Services (MassTrails)	Recreation Committee and Open Space and Recreation Advisory Committee, Town Forest Committee, Volunteers	2022

GOAL/OBJECTIVES	ACTIONS	NOTES / STATUS OF ACTION ITEM IF CARRIED OVER FROM 2011	POTENTIAL FUNDING SOURCES	RESPONSIBLE BOARD/ GROUP	PROJECTED START DATES
	Investigate with FirstLight the possibility of creating a public access park on land between Riverview Drive and the Connecticut River, similar to the walking path and picnic area on the Montague side.	New in 2020.	FirstLight	Select Board, Conservation Commission, Open Space and Recreation Advisory Committee, Volunteers	2021
Identify recreational needs of residents of all ages and develop new programs and facilities as appropriate.	Use the Gill Newsletter to report results of the OSRP survey and to request volunteers to take on activities that most interest them. If volunteer recruitment is unsuccessful, seek grants from the Massachusetts Cultural Council to fund staff time and direct costs for the most desired program.	Not started. Still relevant.	Massachusetts Cultural Council	Recreation Committee and Open Space and Recreation Advisory Committee, Volunteers,	2021
GOAL 4: Ensure that the Town	of Gill residents and Town officials successfully work together and	with others to guide the conservati	on of open space and re	creation resources.	
Form a permanent Open Space and Recreation Advisory Committee.	Use the Gill Newsletter to explore if there are volunteers interested in serving on an Open Space and Recreation Advisory Committee.	New in 2020	Town, Volunteers	Select Board, Town Administrator	2021
	Request the Select Board approve a warrant article for Town Meeting vote that asks to establish a standing Open Space and Recreation Advisory Committee.	Not started. Still relevant.	Volunteers	Select Board	2022
	Monitor the implementation of the 2020 Gill Open Space and Recreation Plan.	Not begun. Still relevant.	Volunteers	Open Space and Recreation Advisory Committee	2021 (ongoing)
	Revise and update any sections of the OSRP throughout the seven- year period in preparation for the next OSRP.	Not begun. Still relevant.	Volunteers	Open Space and Recreation Advisory Committee	2021 (ongoing)
	Encourage existing committees to periodically review their Action Plan responsibilities.	New in 2020.	Volunteers	Town Committees	2021 (ongoing)
Conduct public outreach regarding the activities of the Open Space and Recreation Advisory Committee.	Create an online presence for Open Space and Recreation activities in Gill via the Town website or Facebook.	Not begun. Still relevant.	Volunteers	Open Space and Recreation Advisory Committee, Town Administrator	2022
Explore opportunities to partner with local, regional, and statewide land conservation organizations and agencies to better leverage limited town dollars and volunteer hours towards the conservation of priority resource areas.	Meet annually with conservation organizations such as Mount Grace Conservation Land Trust, Franklin Land Trust and other entities to discuss any potential conservation projects.	Not begun. Still relevant.	Volunteers	Open Space and Recreation Advisory Committee	2022
	Send a town representative to attend quarterly meetings of the North Quabbin Regional Landscape Partnership to engage land conservation agencies and organizations and other town open space committees in efforts that focus on Gill priorities as well as on broader landscape-scale conservation.	Not begun. Still relevant.	North Quabbin Regional Landscape Partnership	Open Space and Recreation Advisory Committee	2022

GOAL/OBJECTIVES	ACTIONS	NOTES / STATUS OF ACTION ITEM IF CARRIED OVER FROM 2011	POTENTIAL FUNDING SOURCES	RESPONSIBLE BOARD/ GROUP	PROJECTED START DATES
GOAL 5: Identify ways to balan	ce open space and recreation resources preservation in Gill with co	ommercial and industrial developme	ent to ensure an adequa	te tax base to support the T	own.
Provide support and planning to individuals wishing to start new commercial or industrial businesses.	Establish a study committee to promote new commercial and industrial development in Town. Learn about and publicize availability of assistance for individuals wishing to state new businesses in Town.	Not yet started. Still relevant.	Town, Volunteers	Planning Board, Development Study Committee (yet to be formed)	2023
	Conduct outreach to regional organizations, such as the Franklin County Community Development Corporation, Franklin County Chamber of Commerce, and the Franklin Regional Council of Governments, to research existing business development and entrepreneurial resources	Not yet started. Still relevant.	Town, Volunteers	Planning Board, Development Study Committee (yet to be formed)	2023
	Based upon results of research, create a public outreach and education webpage and/or a brochure that identifies resources to individuals wishing to start a new business in Town.	Not yet started. Still relevant.	Town, Volunteers, DLTA funds	Development Study Committee (yet to be formed)	2024
	Encourage home-based businesses in order to expand the number of commercial businesses without developing new parcels of land.	Not yet started. Still relevant.	Town, Volunteers	Development Study Committee (yet to be formed)	2023
Identify suitable areas to pursue additional commercial or industrial businesses in Town.	Revisit and update the 2004 Gill Community Development Plan as a starting point to identify areas in Gill suitable for commercial or industrial development.	Not yet started. Still relevant.	Town, Volunteers, DLTA funds	Planning Board, Development Study Committee (yet to be formed)	2024
	Conduct periodic reviews of the zoning bylaws to determine if they continue to accommodate economic development efforts.	Not yet started. Still relevant.	Town	Planning Board, Zoning Board of Appeals	2022 (ongoing)
Determine what types of businesses, products and services are supported in town.	Conduct a survey to evaluate the types of businesses, products and services that are supported in Town.	Not yet started. Still relevant.	Town, Volunteers	Development Study Committee (yet to be formed)	2023

Work with the Massachusetts Association of Conservation Commissions (MACC) to coordinate annual spring walks to inventory animals, insects, fish, plants, trees and significant geological features in the Town Forest. Take an active role in the FERC relicensing process for FirstLight's hydroelectric facilities and strongly advocate for riverbank stabilization and erosion mitigation measures to be included in the new 50-year operating licenses. **Partner with Northfield Mount Hermon** NORTHFIELD and the Gill-Montague School System to work on making their recreational facilities available to Gill residents during the week. Apply for an MA Parkland Acquisitions and **Renovations for Communities (PARC) Program** grant to fund the development of a new recreational facility for Gill Elementary School and for residents of Gill. Establish a public access trail along the Fall River from the Town Forest (Gill/ **Bernardston town** line) to the confluence of the Fall and Participate in the **Connecticut Rivers in Connecticut River** Factory Hollow. Streambank Erosion Committee. Investigate with FirstLight the possibility of creating a public access park on land between **Riverview Drive** and the Connecticut River, similar to the walking path and picnic area on the Montague side. Monitor conditions, maintain, and upgrade Riverside School MON **Explore the feasibility of improving** recreation facilities and the Stacy's Ferry public land for use encourage more use of them. as park, picnic area and river access Franklin County Ma for kayaks and canoes, including ADA accessibility. Sources: Map produced by the Franklin Regional Council of Governments Planning Department. GIS data sources include MassDOT, MassGIS and FRCOG. DEERFIELD Town of Gill 0 0.25 0.5 1 Miles **Action Plan** ++++ Open Space & Oct. 11, 2018 Recreation Plan 2020 Franklin Regional Permanently Council of Governments Protected

Section 10: Public Comment

Public input was encouraged throughout the planning process. As described in the Introduction, the Open Space and Recreation Plan Update Public Forum was held on December 21, 2020 during the Gill Selectboard meeting via teleconference due to the COVID Pandemic. All comments expressed at the public forum and during the two-week public comment period following the Public Forum were recorded in Section 10: Public Comments.

Draft sections of the OSRP were posted on the Town's website throughout the planning process and members of all Town Boards and Committees were notified of their location and were asked to comment. Letters of support were received from several entities and are included here.

Public feedback provided during the entire planning process is difficult to document due to the fact that the plan constantly incorporated these changes and enhancements.

Public input was gathered via Public Survey. Along with answering specific questions, the public was given the opportunity to offer general comments as well.

The successful implementation of this Plan will depend upon involvement of citizen volunteers. First, a standing Open Space and Recreation Advisory Committee will need to be formed and a Recreation Committee will also need to be re-established. With the help of town citizens and staff, they will be able to complete many of the action items included in the Action Plan.

From: Carter Wall [mailto:Carter.Wall@firstlightpower.com]

Sent: Monday, January 04, 2021 8:29 AM

To: Ray Purington/Gill Selectboard administrator@gillmass.org

Subject: letter of support

Ray – with apologies for the delay, would you let me know if this meets your needs? Happy to make any changes.

By the way, I noticed that in the "Community Needs" section (Section 7) on page 7-8 there is an old (broken) footnote link to our predecessor organization – would suggest replacing it with this: https://www.firstlightpower.com/recreation/



Carter Wall

Manager of Government Affairs and Community Relations

FirstLight Power

99 Millers Falls Road Northfield, MA 01360 <u>Carter.Wall@firstlightpower.com</u> 413-834-2126

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TOWN OF GILL

MASSACHUSETTS



www.gillmass.org

January 4, 2021

Melissa Cryan Division of Conservation Services Executive Office of Energy and Environmental Affairs 100 Cambridge Street, 9th Floor Boston, MA 02114

Dear Ms. Cryan:

On behalf of the Gill Planning Board I am pleased to provide this letter of support for the updated Open Space and Recreation Plan prepared by the Open Space Update Committee with the administrative support of the Franklin Regional Council of Governments (FRCOG).

The Open Space Update Committee composition includes the Gill Town Administrator and Assessors' Clerk (both of whom are town residents), representatives (and residents) from the town's Conservation Commission, Cemetery Commission, and Energy Commission, as well as a member of the community. Each representative provides a unique perspective to help develop a comprehensive plan that will meet the recreational and open space needs, challenges, and opportunities of our community.

The Committee has thoughtfully conducted a community survey process and reflected on the feedback provided by the citizens of Gill. With this information the Committee spent months reviewing each chapter of the plan, identifying priority action items and goals to achieve within the next seven (7) years. The Planning Board recognizes the importance of our community's open space resources and is happy to be involved with the plan's goals and objectives.

The Planning Board has reviewed the updated Open Space and Recreation Plan prepared by the Committee and supports its submission to your office for approval.

Respectfully,

Douglas Smith, Chair Gill Planning Board

TOWN OF GILL

MASSACHUSETTS



www.gillmass.org

January 4, 2021

Melissa Cryan
Division of Conservation Services
Executive Office of Energy and Environmental Affairs
100 Cambridge Street, 9th Floor
Boston, MA 02114

Dear Ms. Cryan:

The Gill Selectboard is pleased to provide this letter of support for the updated Open Space and Recreation Plan prepared by the Open Space Update Committee with the administrative support of the Franklin Regional Council of Governments (FRCOG).

The Open Space Update Committee composition includes the Gill Town Administrator and Assessors' Clerk (both of whom are town residents), representatives (and residents) from the town's Conservation Commission, Cemetery Commission, and Energy Commission, as well as a member of the community. Each representative provides a unique perspective to help develop a comprehensive plan that will meet the recreational and open space needs, challenges, and opportunities of our community.

The Committee has thoughtfully conducted a community survey process and reflected on the feedback provided by the citizens of Gill. With this information the Committee spent months reviewing each chapter of the plan, identifying priority action items and goals to achieve within the next seven (7) years.

The Selectboard has reviewed the updated Open Space and Recreation Plan prepared by the Committee and supports its submission to your office for approval.

Respectfully

Randy Crochier, Chair

Gill Selectboard

TOWN OF GILL

MASSACHUSETTS



www.gillmass.org

January 4, 2021

Melissa Cryan Division of Conservation Services Executive Office of Energy and Environmental Affairs 100 Cambridge Street, 9th Floor Boston, MA 02114

Dear Ms. Cryan:

The Gill Conservation Commission is pleased to provide this letter of support for the updated Open Space and Recreation Plan prepared by the Open Space Update Committee with the administrative support of the Franklin Regional Council of Governments (FRCOG).

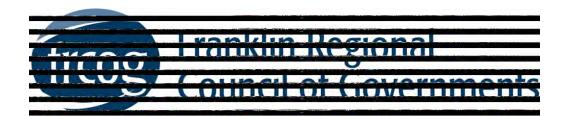
The Open Space Update Committee composition includes the Gill Town Administrator and Assessors' Clerk (both of whom are town residents), representatives (and residents) from the town's Conservation Commission, Cemetery Commission, and Energy Commission, as well as a member of the community. Each representative provides a unique perspective to help develop a comprehensive plan that will meet the recreational and open space needs, challenges, and opportunities of our community.

The Committee has thoughtfully conducted a community survey process and reflected on the feedback provided by the citizens of Gill. With this information the Committee spent months reviewing each chapter of the plan, identifying priority action items and goals to achieve within the next seven (7) years. We are pleased the Conservation Commission has an important role to play in implementing the action items that support the plan's goals and objectives.

The Conservation Commission has reviewed the updated Open Space and Recreation Plan prepared by the Committee and supports its submission to your office for approval.

Respectfully,

Phil Gilfeather-Girton, Chair Gill Conservation Commission



January 21, 2021

Ms. Melissa Cryan Executive Office of Energy and Environmental Affairs 100 Cambridge Street, 9th Floor Boston, MA 02114

Dear Ms. Cryan,

The Franklin Regional Council of Governments (FRCOG) is pleased to endorse the work of the Gill Open Space Update Committee to update the Gill Open Space and Recreation Plan (OSRP). We support their submission of the 2021 Gill OSRP to the Massachusetts Division of Conservation Services for review and approval.

The Plan was developed by the Gill Open Space Update Committee, which included the Gill Administrative Assistant, Town Clerk, and representatives from the town's Conservation Commission, Cemetery Commission, and Energy Commission, as well as a member of the community. The FRCOG provided technical assistance to complete the update. The Plan represents several years of work to gather public input, build consensus, and prioritize natural, recreation, and open space needs in Town. The goals and objectives in the Open Space and Recreation Plan reflect the vision and values of Gill residents gathered during the public input process.

The 2021 OSRP will provide Town officials and volunteers with resources to help inform decisions regarding land use, recreation, cultural, and open space issues. The Plan update, once approved by the State, will make Gill eligible for funding to implement open space and recreation projects. In addition, the Town will be better able to to collaborate with neighboring towns, local land trusts, the FRCOG, and others to work towards the OSRP goals and objectives of protecting and enhancing Gill's significant natural, cultural, and recreational resources. We congratulate the Town of Gill on completing this project!

Sincerely,

Kimberly Noake MacPhee, P.G., CFM

Kimbul In Marphen

Land Use and Natural Resources Program Manager



January 4, 2021

Melissa Cryan
Division of Conservation Services
Executive Office of Energy and Environmental Affairs
100 Cambridge Street, 9th Floor
Boston, MA 02114

Dear Ms. Cryan:

FirstLight Power is pleased to provide this letter of support for the updated Open Space and Recreation Plan prepared by the Town of Gill's Open Space Update Committee with the administrative support of the Franklin Regional Council of Governments (FRCOG).

FirstLight Power is a New England-based diversified clean energy provider and steward of more than 14,000 acres and hundreds of miles of shoreline along some of our region's most beautiful rivers and lakes, including Gill and surrounding towns. As part of the company's commitment to environmental awareness and sustainability, FirstLight maintains and operates nature trails and recreation and environmental programs at our facilities in Gill and elsewhere.

The Town of Gill is home to an impressive number of cultural, historic, scenic, natural, archeological, and natural resources, of which it has been a careful steward. FirstLight commends the Committee for their thorough work on this update. The Committee has conducted a thoughtful community survey process involving many stakeholders in the community and the region, and has developed a comprehensive plan that will meet the recreational and open space needs, challenges, and opportunities of our community.

Respectfully,

Carter Wall

Manager, Government Affairs and Community Relations



P.O. Box 450 Shelburne Falls, MA 01370 (413) 625-9151 Executive Director (413) 625-9152 Donor Services www.franklinlandtrust.org

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Alain Peteroy
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Emily Boss
Land Protection Specialist
William Sloan Anderson
Head Land Steward

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Mary Lynn Sabourin, CFRE
Director of Philanthropy
Melissa Patterson
Director of Community
Outreach & Education
Linda Alvord
Administrative Assistant
Marie Henry
Financial Administrator

January 21, 2021

Melissa Cryan Division of Conservation Services Executive Office of Energy and Environmental Affairs 100 Cambridge Street, 9th Floor Boston, MA 02114

Dear Melissa:

The Franklin Land Trust is very pleased to write this letter in full support of the updating of Gill's Open Space and Recreation Plan in partnership with the Franklin Regional Council of Governments. The process of public input for a thorough review of natural and agricultural resources, public access, opportunities for conservation, and focus on areas of concern, as well as addressing community resilence issues make this a timely and important project.

Over the past 30 years, Franklin Land Trust has worked with community residents, town officials and volunteers to complete 10 projects conserving over 500 acres including assistance on state APRs and the conservation of the 162-acre Gill Town Forest. We also hold conservation restrictions on several private lands and worked with DCR to conserve scenic and historic lands along the Mohawk Trail in Gill.

Success of these and future projects depends on the thoughtful planning and support for priorities within the Town of Gill. Updating the OSRP is part of encouraging and focusing town residents and resources to make sound decisions regarding open space within the town.

The Franklin Land Trust looks forward to continued partnership with Gill residents with support from this well crafted Open Space and Recreation Plan.

Sincerely,
Alain
Alain Peteroy
Director of Land Conservation



1461 Old Keene Road, Athol, MA 01331-9734 Phone: (978)248-2043 Fax: (978)248-2053 landtrust@mountgrace.org www.mountgrace.org



Protecting land and encouraging land stewardship in North Central Massachusetts

January 20, 2021

Melissa Cryan Division of Conservation Services Executive Office of Energy and Environmental Affairs 100 Cambridge Street, 9th Floor Boston, MA 02114

Dear Ms. Cryan:

Mount Grace Land Conservation Trust enthusiastically supports the updated Gill Open Space and Recreation Plan, as prepared by the Open Space Update Committee with administrative support from the Franklin Regional Council of Governments (FRCOG).

We are particularly pleased to be listed as a partner in the Action Plan, and we welcome the opportunity to partner with the Town to engage high priority landowners (Action Plan Goal 1) and to collaborate to protect priority resource areas (Action Plan Goal 4). We strongly support the Town's desire to enhance the quality of public access opportunities in Gill, notably along the Fall River and the Connecticut River. We are also encouraged to learn that the 2020 community survey uncovered clear support for "the idea of increasing the amount of permanently protected open space in town."

The goals outlined in this updated OSRP are aligned with Mount Grace's efforts to conserve and steward land in and around Gill. We are grateful to the Open Space Update Committee, FRCOG, and Gill residents for collectively dedicating their time, financial resources, and expertise to crafting this compelling and comprehensive OSRP. We look forward to helping them implement it.

Ellrorth

Warmly,

Emma Ellsworth
Executive Director



GOVERNOR

Karyn E. Polito LIEUTENANT GOVERNOR

Kathleen A. Theoharides **SECRETARY**

The Commonwealth of Massachusetts

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

> Tel: (617) 626-1000 Fax: (617) 626-1181

March 31, 2021

Megan Rhodes Franklin Regional Council of Governments 12 Olive Street Greenfield, MA 01301

Re: Open Space and Recreation Plan

Dear Ms. Rhodes:

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

Sincerely,

Melissa Cryan

Melissa Cryan **Grant Programs Supervisor**

Section 11: References

Please note: In addition to the following references, other sources are cited in the body of the text or as footnotes.

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Section 12: Appendices

Appendix A: Public Involvement and Advertising

Page : B04

MONTAGUE GILL ERVING NOTEBOOK

Plant closing discussed

Members of Montague Town Government expressed dismay in the closing of the Turners Falls Paper Company. Town administrator Steve Ellis encouraged those out of work from the plant closure to contact the Franklin-Hampshire Career Center. He said that if the career center does decide to hold a job fair, they have offered town hall as a possible location.

At Monday night's meeting, he also wanted to clear up con-

At Monday night's meeting, he also wanted to clear up concerns about town ownership of the building. He said it is privately owned, and likely would belong to creditors of the company, if not the company. He said the town's tax collector is working to deal with any financial issues between the town and the company. He said the town's foremost interest is having the building return to private commercial use, and that as of right now, it could be used as a paper mill again.

Hearing scheduled on Millers Falls project

MONTAGUE — Powers Block Properties, LLC, owned by local developer Robert Obear, has requested a hearing with the Montague Zoning Board of Appeals for a special permit to build a mixed use building in downtown Millers Falls

a mixed use building in downtown Millers Falls.

At Monday night's Selectboard meeting, Obear, speaking about a nearby project, said the building would include a commercial space on the first floor and residential apartments upstairs, like several other of his properties in the area. It would include six commercial spaces and three two-bedroom residential apartments. The building would be on addresses 35 to 39 Bridge St. in Millers Falls.

The hearing will take place on Wednesday, Sept. 27, at 7:15 p.m. in Montague Town Hall.

Volunteers sought for Open Space and Recreation update

GILL — The Town of Gill and the Franklin Regional Council of Governments is updating the Gill Open Space and Recreation Plan and is asking for volunteers who are interested in the project. The town is holding the first work session on Sept. 21 at 7 p.m. in Town Hall.

According to the town, the plan is a comprehensive inventory of the town's natural, agricultural, and recreational resources and a plan for their stewardship and protection. It would also include information about what the town's needs are and a seven-year action plan about conservation and use of town resources.

The town does an Open Space and Recreation Plan because if a municipality has one that is approved by the state, they are eligible for state grant funding. The current plan for the town was approved in 2011 and runs through 2018.

Montague Special Town Meeting set for Oct. 5

MONTAGUE — Montague will hold a special town meeting on Oct. 5 at 6:30 p.m. at Turners Falls High School. Town meeting members will be voting on 15 articles, including authorizing \$24,000 for a new flail mower, one that handles tougher and larger areas, and \$20,000 to fund Riverculture.

The town will also vote to rescind several previous articles and replace with new funding amounts that are either higher or lower than the previous articles.

Library offers 'Mindful Eating' course

ERVING — This Saturday, the Erving library will be holding five lessons on Mindful Eating, on Saturdays in September and October. Sept. 17 is the first session and will run from 4 to 5 p.m. at the library. Participants need a smartphone or internet-connected device and need to sign up at the library ahead of time

nected device and need to sign up at the library ahead of time. The course will cover how people form habits, how to handle cravings, dealing with stress versus hunger and other topics. The course will be taught by Michelle Miller, a mindfulness instructor. Classes run through Sept. 17, Sept. 24, Oct. 15, 22, and 29. Check the Erving Library's Facebook page for more information.

What's buzzing at bank event in Turners

TURNERS FALLS — On Friday, Sept. 15, Greenfield Savings Bank in Turners Falls will be hosting several "Buzz"-themed events.

From 12 to 2 p.m. officers from the Deerfield and Montague Police departments will offer drunk driving simulations with the Deerfield Police's Impaired Driving Simulation vehicles.

Local barbers will be doing free haircuts from 3 to 5 p.m. Tim Dowd of Tim's Barber Shop will be in the bank's Community Room from 3 to 4 p.m., then Denise Edwards from Ed's Barber Shop will be there between 4 and 5 p.m

From 5 to 6 p.m. staff from the bank will be scooping free ice cream to customers.



Open Space & Recreation Survey

The Town is updating its *Open-Space & Recreation Plan*. The Plan establishes goals and objectives to help guide the Town in its decisions regarding land use, open space, and recreation. Your answers to this survey will help update the Plan and help the Town as it continues to plan for future growth and protection of our natural, scenic, cultural, and historic resources. All responses are anonymous and we greatly appreciate your feedback and participation in this survey.

You can respond to the online survey here: www.surveymonkey.com/r/GillOSRP

To view the survey in PDF format, click this link: Gill 2020 Open Space and Recreation Survey.pdf

Printed surveys were mailed with the Winter 2020 issue of The Gill Newsletter. Completed surveys can be dropped off at the Town Hall or Library or mailed to the Town Hall, 325 Main Road, Gill, MA 01354.

Posted: to General News on Mon, Feb 3, 2020 Updated: Mon, Feb 3, 2020

Downloadable Files

Gill 2020 Open Space and Recreation Survey

Posted: Mon, Feb 3, 2020, 12:19 pm

To: Open Space Committee

Gill Selectboard 2020-02-03 Agenda

Posted: Fri, Jan 31, 2020, 4:56 pm

To: Selectboard Meetings

Gill Selectboard 2020-01-22 Agenda with FinCom

Posted: Fri, Jan 31, 2020, 4:56 pm

To: Selectboard Meetings

GillNews 2020 1WINTER

Posted: Wed, Jan 29, 2020, 3:24 pm

To: Gill Newsletter Archives

Calendar of Events

Gill Energy Commission

Wed, Feb 5, 2020, 5:00 pm Gill Town Hall Posted to: Energy Commission

6 Town Regionalization Planning Board

Wed, Feb 5, 2020, 6:30 pm Montague Senior Center Posted to: Schools

Agricultural Commission Meeting

Wed, Feb 5, 2020, 6:30 pm Gill Town Hall

Posted to: Agricultural Commission

Town Hall Offices are Closed

Fri, Feb 7, 2020, All Day Gill Town Hall

Posted to: Town Hall

Montague Reporter

also serving Erving, Gill, Leverett and Wendell

THE VOICE OF THE VILLAGES

UNEARTHING THE ARCHIVES Introducing... The Western **Massachusetts History Collective**



This photograph of the Gem Market on Third Street in Turners Falls, dated

MONTAGUE - Local historiwith limited budgets and a lack of experience with technology, often have trouble connecting with the people they hope

to provide knowledge to.
"A lot of this stuff is buried, and in forgotten cubbyholes," says Ed Gregory, a local historian and member of the Montague His-

The contents of these special-collection repositories are often sequestered in stacks in dusty, crowded rooms, leaving artifacts unseen and hindering the opportunity for more eyes to enjoy them. The way information is shared from these very small collections is not consistent with how the world communicates today; many cater to a speci c kind of patron, requiring in-person visits by those who know what they intend to \(\sigma nd\).

'Most local historical societies of today don't get it," says Chris

By CHARLOTTE KOHLMANN Clawson, a member of both the Montague Historical Society and the Museum of Our Industrial Heritage in Green □eld. "Old information needs to be adapted... We need translators of these materials, which means bringing them into the digital world."

Online archives are expensive

to build, and their upkeep can break the bank. An independent consumer might spend upwards of \$50,000 annually on commercial database software. Many largescale archival undertakings made possible only by the deep pockets of private investors, or with the bene t of cultural grants or institutional endowments

But Gregory and Clawson have found an alternative: a zero-cost open-source loophole on which they built the foundation of their new online project, the Western Massachusetts History Collective Clawson, a historian and technology buff, taught himself for free

see ARCHIVES page A6

MONTAGUE SELECTBOARD

Virtual Town Meeting Likely; Required for Airport Deal

By JEFF SINGLETON

The Montague selectboard held two meetings back to back on December 21. At the □rst, Turners Falls Airport manager Brian Camden presented a plan for the airport, which is publicly owned by the town of Montague, to purchase private property adjacent to the runway from a com pany called Pioneer Aviation. This was a joint meeting with the nance committee, capital improvements committee, and airport commission.

After nearly an hour, these com mittees closed the arst meeting and the selectboard opened its regular meeting with the board of health.

The basics of the proposed purchase have been presented at previ ous selectboard meetings. Pioneer plans to sell its property, which currently houses a hangar, maintenance and storage facilities, a fueling station, and a light school crucial to the town airport operation. Camden and members of the airport commission are concerned that if the property is sold to a non-aviation company, the airport will no longer be viable.

The Pioneer purchase is time-sensitive and must be approved, along with signi cant borrowing and an increase in this year's airport budget, by a special town meeting this

see MONTAGUE page A10

GILL SELECTBOARD

Ward Will Not Seek A Fifth Term This Spring

By JERRI HIGGINS

On Monday evening Gill's selectboard reviewed the draft update of the town's open space and recreation plan (OSRP), approved a sewer rate increase for the Riverside neighborhood, discussed a backlog of town administration projects, and appointed a seasonal snow plow driver, among other agenda items. Four-term selectboard member John Ward mentioned that he did not plan to run for re-election next spring. In 2017, when Gill's last open

space and recreation plan expired, the town collaborated with the Franklin Regional Council of Governments (FRCOG) to analyze its assets and needs.

Megan Rhodes, FRCOG's senior planner, told the selectboard that the effort culminated in over 100 pages of information. Indings, and recommendations for the town

The plan does an inventory of all the town's open space, natural resources, and recreational assets in town that are currently existing," Rhodes said, "and what you may need in the future - based on see GILL page A4

Feared Evictions Pushed Back As Rental Aid Trickles Down

By SARAH ROBERTSON

GREENFIELD - Nobody in Franklin County has been evicted since the state moratorium ended two months ago, but the sheriff's of ce continues to serve pre-eviction notices and court summonses while trying to connect tenants with as many resources as possible.

"It is very troubling, because we are obligated to follow the law, but we try to be humane as well," sheriff Christopher Donelan told the Reporter. "We can slow the process down, but ultimately we're required by law to serve the papers by the court

According to US Census Bureau statistics, 6.7 million people are at risk of eviction in the coming months nationwide. In Massachu setts, that includes about 146,000 renters and homeowners.

For six months between April and October, housing courts in Massachusetts shut down following



The company managing this apartment complex in Orange served seven tenants art summonses on Monday, but says it will help them access emergency assistance

a state-ordered halt to all "non-essential" evictions, which expired on October 17. Since then the Franklin County sheriff's of ce has delivered dozens of pre-eviction notices and at least 54 "summary process

see RENTAL page A9

"Complexity of the Transition" Causes Delays in Farren Closure



A promise to provide COVID-19 vaccination to the facility's residents before they are moved to a Holyoke home has cast uncertainty on the timelin

MONTAGUE CITY - The Farren Care Center, which began as a hospital at the turn of the last century and has served for nearly thirty years as a home to over 100 longterm residents with multiple disabilities, remains on track to close this winter, but the time frame has been delayed until at least Febru-

ary and perhaps later.
Originally scheduled to shut its doors at the end of 2020, the Farren's closing was initially delayed until January 5, according to an announcement by Trinity Health Senior Communiti

gan-based organization which owns the unique facility. The December 1 announcement stated that the postponement was due to "the complex-ity of the transition before us," as well as a desire to maintain "consistency in staf ing and operations.

The majority of Farren residents are to be moved to a nursing home in Holyoke owned by Trinity called Mount Saint Vincent Care Center, which has served a very different population of elderly residents, mostly in their 80s and 90s. The current population of the Farren is 85 residents, according to Trinity spokesperson Christine Looby.

see FARREN page A4

— DISPATCH =

The Moody Blues, Part II On the Threshold of a Dream?

By CHIP AINSWORTH

NORTHFIELD - The Northeld planning board met on Thursday. December 17 with a Kansas money man and his Missouri architect to go over plans to put a \$13 million condominium complex on eight-tenths of an acre in historic East North□eld.

The key players for North eld were planning board chair Steve Seredynski, vice chair Meg Riordan, and members Homer Stavely, Tammy Pelletier, and Joe Graveline. The development team was represented by Christian Arnold of Clockwork Architecture in Kansas City, Missouri, and James Spencer, the chief operating of cer of the Moody Center in Over-

land Park, Kansas, a hub of the Christian non-pro \square t industry.

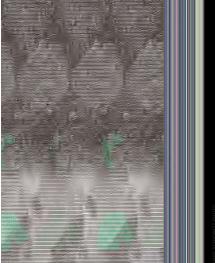
Earlier in the week, media operations specialist Aleana Saldana of the Moody Church in Chicago con rmed: "We are not af liated with the Moody Center in Overland Park, Ks.'

No indeed, Moody Center's raion d'être was thanks to the National Christian Foundation's decision to give its North eld property to Thomas Aquinas College and the Moody Center. The former now uses it for education, and the latter

for pro teering.
"We already gave you permis sion to build [two other projects], where's that?" asked Seredynski.

Still in the planning stages, see \mathbf{MOODY} page A2





Extra Pages Because We'll Be Sleeping All Next Week

-	G G	
£	Letters and Illustration	A2
	LocalBriefs	A3
	Positive Offerings.	A5
2	December Poetry Page	
_	10 Years Ago: Going Dutch?	
	West Along the River: Hemlocks and Holly	
	N. Tile' . I Al . C I .	D1

be sieeping an Next wee	n.
Witness Tree Protection Program	B1
Montague Police Log: Stomping	B3
Widening Critical Oscillation	B4
MMM: Muse, Odalisque, Hippy	B5
The Gardener's Companion	B6
Five Comics and a Puzzle	
Great Falls Lamb's Quarters Column	B8





What have you lost? Leave a message at (413) 239-7607

GILL from page A1

environmental changes and population changes, things like that

Besides having current and extensive data on the town's natural and economic assets, along with input from an OSRP committee and 41 survey respondents, an up-to-date plan will enable Gill to apply for various state grants that would help fund parks, trails, playground equipment, or other recreational proposals. Once the draft is reviewed and approved by the state, the town will be eligible for those grants through 2027.

The draft OSRP identi □es □ve priorities for Gill: protecting natural, recreational, and agricultural resources; responding to the needs of farmers and foresters: maintaining or improving recreational program and facilities; collaborating with other entities to protect open space and recreational resources; and supporting economic development.

"To implement those priorities." said Rhodes, "the open space and recreational plan has a number of recommendations - in fact, about nine pages of recommendations.

Rhodes highlighted several recommendations that she said "re □ect the changing conditions in town": joining FRCOG's regional pollinator habitat corridor project; supporting Gill's farmers and restaurateurs in building farm-to-table relationships, learning about land trusts as a way to protect more public land, establishing more biking, hiking and walking trails - including a planned public access trail at Factory Hollow - and creating a public park along the river, "similar to the walking path and picnic area on the Montague side."

Most of the survey respondents said that they felt the town needs to protect more land. "Most people said that the town needs to protect more land," Rhodes reported. "Only 3%

of the respondents said that Gill has enough protected land...

"Over half of the respondents said that they would be willing to pay higher taxes for the town to buy nd protect land," Rhodes added, "so that was pretty interesting."

A two-week public comment pe-riod is now open on Gill's website for residents, and anyone else who may be interested, to comment on the draft plan. Rhodes and the OSRP committee will incorporate any changes or comments that are made

Town Administrator Projects

The dilemma of timely mounting due to the COVID-19 pandemic shutdown, along with town administrator Ray Purington's request to not have another person at the town hall with him while the case numbers are currently surging, put the selectboard in the somewhat awkward position of speaking about someone who was also on the call.

"Ray has a lot on his plate, and because there is so much on his plate, there are things that are falling off," began selectboard member John Ward, who also acknowledged that "this has been a very bizarre time to try to □nd and hire anybody to clerk for [Purington]."

"Because I am going to get off of the selectboard in a few months, Ward continued, "it would be appropriate for me to say, 'maybe we can gure out a way for the selectboard to help Ray more.' And, since Greg [Snedeker] is not on the call right now, maybe you and I can get together and volunteer a lot of Greg's time for this," he joked to selectboard chair Randy Crochier.

"There you go," said Crochier, playing along. "Another part of this is that Ray does a lot of things for a lot of boards.

"I understand the frustration of things falling off Ray's plate," Crochier continued, "but on the other end, he keeps all of these boards running legal – which is huge, and keeps us from getting us into binds elsewhere. I am willing to do more for Ray anytime."

Ward agreed, and the discussion will be continued at the next selectboard meeting.

Sewer Rate Increase

"My recommendation is un-changed from two weeks ago when we looked at the □rst draft proposal,' said Purington about the sewer rate increase discussed at Gill's Decem-

ber 7 selectboard meeting. Saying that he hadn't received any feedback from residents since the proposal. Purington again recommended "Scenario C, which is a 3.5% increase. It covers the 2% rate increase that Montague has done this year, and raises a little more for the repairs we know we are going to need."

"Because I am part of that River-side district," said Ward, "I will be courageous and move that we adopt a 3.5% increase."

The rate increase was approved FirstLight License unanimously

French King Bridge

Stacey Hamel, whose stepson ook his life at the French King Bridge in 2018, reached out to the Gill selectboard seeking any town of cials who would be willing to appear in a documentary being made by Jared Britt, an Athol/Orange-based □mmaker.

Hamel, who has organized several "stand-outs" at the French King Bridge to raise awareness of the need for suicide barriers there, was approached by Britt to Im a docuntary about the effort to get the barriers installed. The barriers have been approved by the state, but funding has been delayed.

"Typically," said Purington, "when there is an opportunity or a request for municipal employees to be a part of some type of □lm project - essentially it is a town employee commenting on the record rep-resenting the town. The preferred option is to have the selectboard approve that ahead of time."

Ward said he would like to have police chief Christopher Redmond, re chief Gene Beaubien, "or any of the guys who have to go out in boats and put themselves at risk" speak of their experiences responding to suicide calls.

Crochier agreed the project important, but said he would like to meet with the Immaker before making any decisions, "Although, I have seen his work, and it is very good," he added.

If you're thinking about suicide, are worried about a friend or loved one, or would like emotional support, you can talk with someone now. The Suicide Prevention Lifeline is available 24/7 across the United States at 1 (800) 273-8255.

The board reviewed two procedural schedules released last week by the Federal Energy Regulatory Commission (FERC) for upcoming hearings regarding FirstLight Power's application to relicense its hydropower facilities at North □eld Mountain and Turners Falls.

"This is mostly an FYI topic," said Purington.

Purington said he had noti □ed FERC of Gill's interest in □ing an intervenor on both projects, which FERC will "solicit in May as part of the 'ready for environmental analysis' step.'

Intervenors will have a 60-day window to □e with FERC, but Purington said that the selectboard can □le comments at any time.

"It gives us some time now to be thinking about what we might want to le as reasons for being an intervenor, and what we might want to

☐e as comments" said Purington. But we do not have a hard deadline looming where we need to get some thing done this week or next month.

Crochier asked Purington to forvard the information to "anybody in town that you believe it should go to, and ask them to get back to ou with information

Other Business

William Leh was appointed as seasonal snow plow driver. Crocher recused himself from the discussion and approval because both men are members of the Turners Falls Schuetzen Verein.

As an aside, Ward said he want-ed to thank highway superintendent John Miner for the job the highway department did during last week's wetorm

"I think they did a great job," he said, mentioning that Miner's crew seemed to not use salt on the roads by the river, "I do not mind hardpacked snow on the roads, and it was much nicer for all the people walking their dogs around down here because the only place to walk is on the road - and you are not dealing with salt and slush, and salty paws.

"It would be interesting to Ind out why they did it differently," Crochier responded, "but whenever you are not putting salt and sand on the

road, it is a good thing."

The selectboard approved annual license renewals for Green Riv-er PowerSports and the Cielito Lindo food truck.

FARREN from page A1

David Skoczulek, speaking for the iCare Corporation, a company that has been operating and intends to buy Mount Saint Vincent, told the Reporter that the population of that facility is currently in the "high 40s," and estimated that its total capacity "in the 120s."

Now it appears that residents of both facilities will be encouraged - but not required - to receive vaccinations against the coronavirus before the consolidation takes place. Since that will probably not begin until the arst of the year and requires two shots over a two week period, the transition may not begin until mid-January

Both Looby and Skoczulek indicated that the transition will be "phased in."

David Roulston, a Green eld lawyer who serves as a guardian for six of the Farren residents, said he assumed that the majority would be moved to Holyoke, but that he had not been contacted by Trinity about their plans. He said he had "put the kibosh" on one patient's proposed transfer to a nursing home "with a poor reputation."

Roulston noted that residents or their guardians must consent to any proposed transfer, although their options are limited. Most residents at the Farren have been rejected by three or more other nursing homes.

"They are making this up as they go along," he said. "I've been shocked at the lack of planning." Roulston, who has opposed the Farren closing since it was announced last summer, was considering seeking a court injunction until Trinity announced its plans for vaccination.

Judy Fonsh of Leverett, a former Farren administrator who opposed the closing at two fall public hearings, echoed Roulston's comments, "There does not seem to be any planning going on," told the Reporter, "At least, little has been communicated to residents and their families."

Fonsh said that in early December an organization called the Dignity Alliance helped facilitate a meeting about the Farren transfer with the ombudsman at the Executive Of ce of Health and Human Services, Marylouise Gamache. Fonsh said complaints were raised about the lack planning and communication with residents and their families at both facilities.

"It was a lovely conversation," Fonsh said, but the group felt the responses from of cials to their questions were vague.

Doris Bardwell, whose mother now resides at Mount Saint Vincent, reported the same impres sions from the meeting with the state. She said that "very little information" has been shared with residents and their families about the move. "Most of the answers to my questions have come from reading the newspaper," she told the *Reporter*.

Bardwell, who also testi ed against the consolidation at the fall hearings, has repeatedly asked how iCare planned to combine the two facilities with radically different populations.

According to Bardwell, families of Mount Vincent residents have received two communications from iCare, one of which announced the facility's "new focus" on patients with multiple disabilities. Most of these patients. "probably would have been rejected" by the Holyoke nursing home in the past, Bardwell has not been able to visit her mother in her room since the pandemic began in March.

Mount Saint Vincent was formerly operated by a Catholic organization called the Sisters of Providence, which also managed the Farren for many years. The Holyoke nursing home traditionally featured a strong religious orientation, and Bardwell said her mother was raised a devout Catholic. She expressed concern that iCare was "non-denominational," and noted that the Sisters of Providence had removed all their religious "artifacts" from the chapel in early December. "They took them away, and now it's empty," she reported her mother saying about the chapel

The Reporter raised these concerns with Skoczulek, who is iCare's vice president of business development. Skoczulek acknowledged that the communication with Mount Saint Vincent residents and their families had "gone quiet" due to the holidays and the recent ike in COVID cases.

He also agreed that how iCare would combine two facilities with radically different populations was "critically important to residents and their families. We've heard that from Day One." But he suggested that the solution was a work in progress "that takes more than a paragraph or a letter.

If families □nd that their loved ones no longe wish to stay at Mount Saint Vincent, he said, "we will help them Ind another place. We have social workers, and we will help them get safely moved."

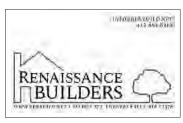
Skoczulek also said that iCare, although non-denominational, operates on a "Christian basis" involving "an acceptance of all faiths." The former Mount Saint Vincent, which will get a new of cial name, "will not have the same lev el of vibe, but residents will not be lost in a sterile environment," he said.

"We're not going to get the bene t of the doubt." Skoczulek added about the concerns expressed by critics of the consolidation. "The proof is in the pudding."

The Reporter was unable to reach employ ees of either the Farren Care Center or Mount Saint Vincent willing to speak on record for this article. During the public process leading to the closure, Trinity said that Farren employees are encouraged to reapply to work at the Holyoke facility. Farren employees have been informed, according to one source, that if they are considering reapplying to the Holyoke facility they should sign up to request more information about the application process.

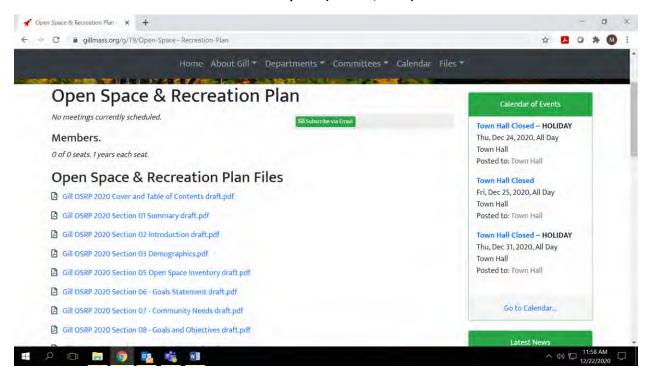
The Farren closure plan approved by the state Department of Public Health includes a commitment from Trinity, in collaboration with state employment agencies, to implement a "comprehensive transition plan" for employees, including 60 days of severance pay

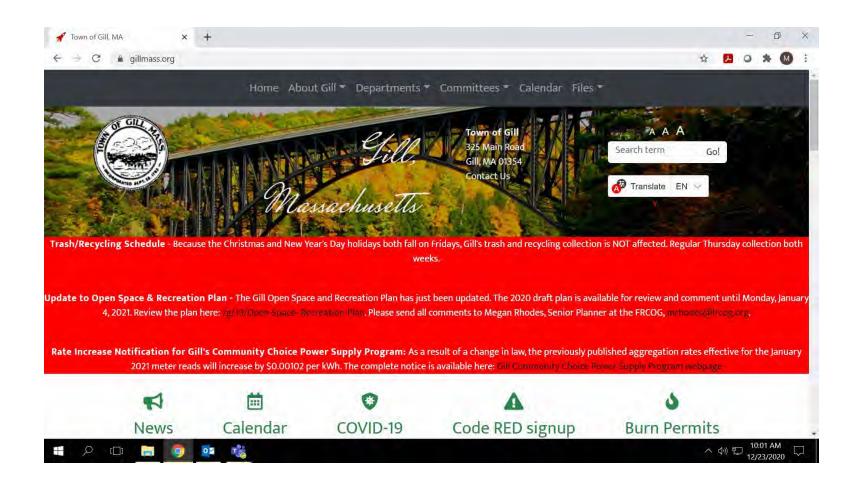






Town of Gill Website with the draft OSRP chapters (Dec. 22, 2020):



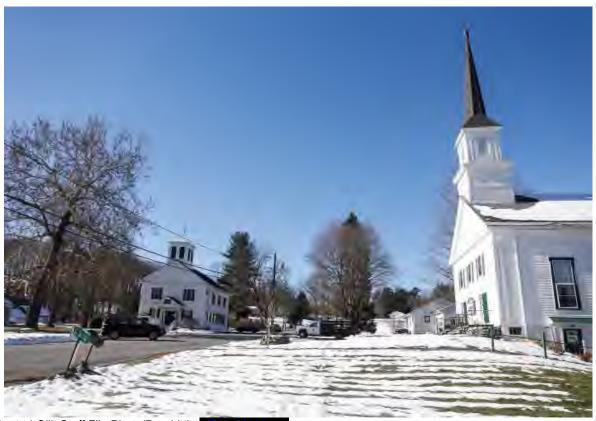


Notice of two week Public Comment period for draft OSRP. Dec. 23, 2020



News > Local

Gill updates open space, recreation policies



Central Gill. Staff File Photo/Dan Little » Buy this Image

By MAX MARCUS

Staff Writer

Published: 1/6/2021 3:05:03 PM Modified: 1/6/2021 3:04:52 PM

GILL — Apart from a new emphasis on re-establishing the Recreation Committee, the town's goals on recreation, land preservation and economic development are largely the same in the 10-year update to the Open Space and Recreation Plan, which the Selectboard endorsed this week and will likely be finalized by the summer.

The plan outlines Gill's positions on maintaining its natural resources and providing outdoor recreation, and on balancing those needs with economic development goals.

The document does not formally establish town policies, but is useful in qualifying for grants, explained Town Administrator Ray Purington. It can also give guidance to committees whose work may intersect with issues of the town's natural resources.

The plan was most recently set in 2011, and has focused on Gill's investment in the Connecticut River, and with providing guidance on recreation facilities and on preserving natural land. Purington said some of the goals were achieved and some were not, but could still be acted upon.

"A lot has changed, but not much has changed," he said. "We intentionally kept quite a few of those great ideas that hadn't started, because they are still great ideas."

One notable goal that has not been achieved is the creation of a committee on open space and recreation, whose task would be to keep tabs on the town's progress toward the plan's goals. This would be separate from the town's Recreation Committee, which currently has no members.

However, Purington added, such a committee would depend on residents' interest and willingness to commit to such a project. The town would also be open to residents who may be willing to work toward specific goals, but who may not be willing to commit to being on a Town Hall committee, he said.

Similarly, re-establishment of the Recreation Committee is specifically noted as a goal in the new Open Space and Recreation Plan.

"That really strikes me as a gap or a need within the fabric of the town," Purington said. "We ought to have some type of recreation committee."

Typically, a recreation committee organizes activities for children, but its role could change to include recreation for adults as well, he said.

Development of the new Open Space and Recreation Plan started in 2017, with a public forum and meetings of the Open Space and Recreation Plan Committee. In 2011, the committee conducted a survey that also influenced the new plan.

This week, the Selectboard approved the final draft of the plan, which will now be sent to the Massachusetts Department of Conservation and Recreation for approval Purington said the plan will probably be totally finalized within five or six months.

Reach Max Marcus at mmarcus@recorder.com or 413-930-4231.

Appendix B: Meeting Sign-Ins and Agendas



AGENDA AND MEETING NOTICE

Gill Open Space and Recreation Plan Update Initial Work Session

Thursday, September 21, 2017 7:00 p.m. – 8:30 p.m. Gill Town Hall 325 Main Road Gill, MA 01354

- 1. 7:00 p.m. Introductions (Ray Purington, Administrative Assistant)
- 2. 7:10 p.m. Overview of the Gill Open Space and Recreation Plan update process (Pat Smith, Franklin Regional Council of Governments)
- 3. 7:40 p.m. 2011 Open Space and Recreation Plan Action Plan Status Update
- 4. 8:00 p.m. Initial Discussion of Section 3: Community Setting (Pat Smith, FRCOG, and Committee)
- 5. 8:10 p.m. Discussion of required maps for Gill Open Space and Recreation Plan update (Pat Smith, FRCOG, and Committee)
- 6. 8:25 p.m. Review project schedule and set next meeting date (Pat Smith, FRCOG, and Committee)
- 7. 8:30 p.m. Adjourn meeting



Gill Open Space and Recreation Plan Update WORK SESSION

September 21, 2017

Sign-in Sheet

Please Print Clearly

Name	Affiliation	Mailing Address/ Email	Phone Number
VICKY JE	NKINS	VJ ILAS 2 nmlisched av 76 River Rd Gill 01354	9 413-325-57
Am Gordon		ayirdon 49@gmail. Com	413-883-0490
Thomas	5.01		113 280 3 -0 170
X AMUN HOLING	Mayo Asovos O		413-8113-15125
Phil Colfatho	6. La Gill Congral,	Commerces 8 Minde St. 1	413-863-5691
Ray Purington	Town Admir	administratore gillmass.org	413 863 9347
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AGENDA AND MEETING NOTICE

Gill Open Space and Recreation Plan Update

Thursday, October 19, 2017 6:00 p.m. – 7:30 p.m. Gill Town Hall, 325 Main Road, Gill, MA 01354

- 1. 6:00 p.m. Introductions
- 2. 6:05 p.m. Review & approve minutes from 9/19
- 3. 6:10 p.m. Overview of Section 9: Seven-Year Action Plan
- 4. 6:20 p.m. Review & Update Goals and Actions from 2011 OSRP
 - a. Assume 2019 start date for new plan
 - b. If eliminating any action items, explain why it's no longer relevant
- 5. 7:00 p.m. Brainstorm New Actions
- 6. 7:25 p.m. –Set next meeting date(s)
- 7. 7:30 p.m. Adjourn meeting



AGENDA AND MEETING NOTICE

Gill Open Space and Recreation Plan Update

Thursday, November 30, 2017 6:00 p.m. – 7:30 p.m. Gill Town Hall, 325 Main Road, Gill, MA 01354

- 1. 6:00 p.m. Introductions
- 2. 6:05 p.m. Review & approve minutes from 10/19
- 3. 6:10 p.m. Review first draft of revised "Section 3 Community Setting"
- 4. 7:20 p.m. Next steps; next meeting date(s) with Pat Smith (FRCOG) and next meeting date(s) for the working group
- 5. 7:30 p.m. Adjourn meeting



Gill Open Space and Recreation Plan Update WORK SESSION

November 30, 2017

Sign-in Sheet

Please Print Clearly

Name	Affiliation	Mailing Address/ Email	Phone Number
Sind Hade	de Mayo	Tomorrow gillmoss	0.69 413-863-8103
Phil G. Kidher 60	to Garactur	8 med St	113-863 5691
Amy Gordon	Con, Comme /=	rest 8 SetbackLane	413-883-0490
JOAN Pillsbur	y Cometery	Commencer 270M+10	413 531 2837
Ray Porington	Admin. Assista	ent administration gillma.	10. org 863-9347
VICKY JENKIN	S Energy Com	mission 76 River Rd,	611 413-325-5722



AGENDA AND MEETING NOTICE

Gill Open Space and Recreation Plan Update

Thursday, March 1, 2018 6:00 p.m. – 7:30 p.m. Gill Town Hall, 1st Floor, 325 Main Road, Gill, MA 01354

- 1. 6:00 PM Introductions
- 2. 6:05 PM Review & approve minutes from 1/25/18
- 3. 6:10 PM Continue review of 2011 OSRP Section 5: Inventory of Lands of Conservation and Recreation Interest. Discuss strategy for 2018 update.
- 4. 7:25 PM Set next meeting date
- 5. 7:30 PM Adjourn meeting



Gill Open Space and Recreation Plan Update WORK SESSION

March 1, 2018

Sign-in Sheet

Please Print Clearly

Name	Affiliation	Mailing Address/ Email	Phone Number
Christian 5	and Land Hounds	hopic Clamille Juprass	edu 978-660-6813
VICKY JEN	UKINS Energy Com	WSSian Menkins @ nonhse	hotolog 413-325-5722
Ray Punnatur		7	mas y 413-863-1347
Am Gordon	Gill Can Co	um agordony / ma	iil.com 413-883-0490
JOHN P. 1166	ary GillComete	y Comm Pillsburgcome	ast Net 4138634634
RIS	und fre		
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AGENDA AND MEETING NOTICE

Gill Open Space and Recreation Plan Update

Tuesday, May 15, 2018 6:00 p.m. – 7:30 p.m. Gill Town Hall, 1st Floor, 325 Main Road, Gill, MA 01354

- 1. 6:00 PM Introductions
- 2. 6:05 PM Review & approve minutes from 3/1/18
- 3. 6:10 PM Review draft of 2011 OSRP Section 5: Inventory of Lands of Conservation and Recreation Interest
- 4. 6:40 PM Review and suggest changes to 2011 OSRP Section 4: Environmental Inventory and Analysis
- 5. 7:25 PM Set next meeting date
- 6. 7:30 PM Adjourn meeting



Gill Open Space and Recreation Plan Update **WORK SESSION**

May 15, 2018

Sign-in Sheet *Please Print Clearly*

Name	Affilia	ation	Mailing Address/ Email		Phone Number
Phil Gilband	white C	Ancerustin	8 Merdon St		413-867-564
VICKY JEN	KINS E	Comm	76 River Rd		413-325-5712
Joan F	Delow	Cometer	y MtRd Pillsl	wast ust	413 531 263
VRay Pr	my thy	Tour Admin	admonutative sille	nas or	413 863 9347
PAT	Sumal.	Fricas			
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Gill Open Space and Recreation Plan Update **WORK SESSION**

August 15, 2018

Sign-in Sheet
Please Print Clearly

Name	Affiliation M	ailing Address/ Email	Phone Number
Joan Relsbury	Cametory Com	e Pellone convast	8634639
Synda Hododo	Gill Breigy Co	nulseier Vjenkinse	413-02-325-5 1111-02-019 1911-02-019
ting Gordon	Con. Comm		
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Town of Gill 325 Main Road Gill, MA 01354 Contact Us Homepage

Selectboard Meeting

Monday, December 21, 5:30 pm

Teleconference - access info in the agenda

This meeting is being conducted remotely by all participants due to the State of Emergency related to COVID-19 and under the "Order Suspending Certain Provisions of the Open Meeting, G.L. c. 30A, §20" issued by Governor Baker on 3/12/20. FreeConferenceCall.com is being utilized for the teleconference. It is audio only. Anyone wishing to participate may call 712-775-7031 and then enter the Access Code of 883-045-865. The toll-free number is 844-800-5000 – the Town is charged by the minute per caller, so please use this only when necessary.

5:30 PM <u>Call to Order</u> (If the meeting is being videotaped, announce that fact. If remote participation will occur, announce member & reason, & need for roll call voting)

COVID-19 Topics

o Updates from Gill's Emergency Management Team

Public Hearing on Draft Update to Open Space & Recreation Plan

Megan Rhodes, FRCOG Facilitator of Plan Update – Review of the Plan's findings, results of public survey, and Action Plan (draft plan on Gill website, https://gillmass.org/g/19/Open-Space--Recreation-Plan)

Old Business

- Review of Minutes; 5/26, 6/8, 6/22, 7/6, 7/20, 8/3, 8/31, 9/9, 9/14, 9/28, 10/13, 10/26, 11/9, 11/23, 12/7, 12/16
- FirstLight Amended Final License Applications FERC issued procedural schedules on 12/16/20
- o Sewer Rate Increase for Riverside Sewer System Discussion and Vote

New Business

- o Highway Department Appointment of William Leh as a Seasonal Snow Plow Driver
- o French King Bridge Documentary Film about the bridge, the barriers, and the work to get them installed
- o Car Dealer License Renewals for 2021: Green River Powersports
- o Food Concession Trailer License for 2021: Cielito Lindo
- o Review of Timeliness of Town Administrator projects
- o Other business as may arise after the agenda has been posted.
- · Public Service Announcements, if any

Warrants

FY21 #12 Vendors (\$531,506.68) & Payroll (\$27,640.36) - reviewed & signed by Chair on 12/7

FY21 #13 - to be reviewed & signed by the Chair and reported on at the next meeting

Adjournment

Posted to: Selectboard/Sewer Commissioners

Appendix C: Public Survey and Results

Public Forum

GILL OPEN SPACE AND RECREATION SURVEY

The Town is updating its *Open Space & Recreation Plan*. The Plan establishes goals and objectives to help guide the Town in its decisions regarding land use, open space, and recreation. Your answers to this survey will help update the Plan and help the Town as it continues to plan for future growth and protection of our natural, scenic, cultural, and historic resources. All responses are anonymous and we greatly appreciate your feedback and participation in this survey.

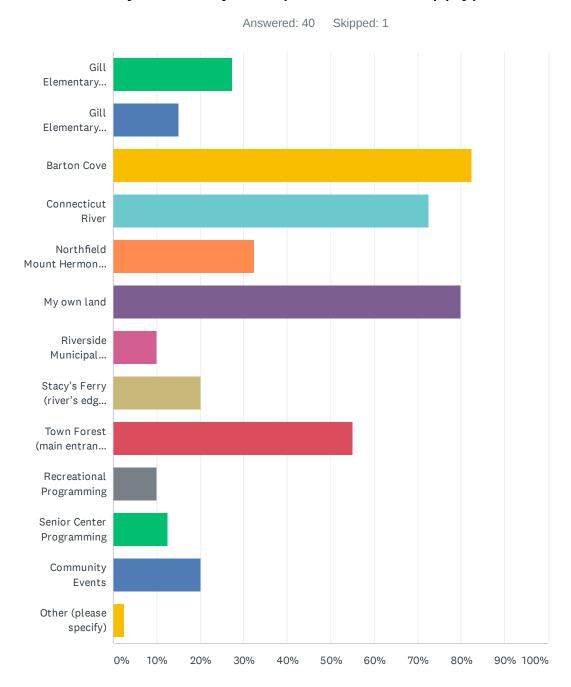
1. Whi	ch of the following recreational and	d ope	n space resources d	о у	you or your family use? (check all that apply)				
	Gill Elementary School playground				Stacy's Ferry (river's edge at end of River Road)				
	Gill Elementary School nature trail				Town Forest (main entrance on Hoe Shop Road				
	Barton Cove				Recreational Programming				
	Connecticut River				Senior Center Programming				
	Northfield Mount Hermon School facilities				Community Events				
	My own land				Other				
	Riverside Municipal Building (aka Gaka Four Winds School)	Green	School,						
2. Wer	e you aware that all of these open	space	recreational resou	ırce	es existed in Gill?				
	Yes			Ν	No				
3. Do y	ou feel that the existing recreation	al fac	ilities are in good c	ond	dition?				
	☐ Yes ☐ Not sure, do not us				Not sure, do not use the facilities				
	No, they need improvement. If so,	pleas	se describe how:						
4. Whi	ch of the following outdoor recreat	ion a	ctivities do you or y	oui	r family participate in (in or out of town):				
	Biking		Hunting		☐ Skiing				
	Hiking		Fishing		☐ Rock climbing				
	Camping		Nature/Birdwatch	ing	☐ Boating/ kayaking				
	Swimming		Walking/Running		☐ Youth Sports Programs				
Ot	her								
	s your household use the Connection	ut Ri	ver for the followin	g a	ctivities: (check all that apply)				
5. Doe	s your nousenoid use the connection			Boating, non power Swimming					
5. Doe	•				Swimming				
5. Doe	•				Swimming Water skiing				

7. Whi	ch of the following should be the Town's HIGHEST re	ecreation priorities? (choose up to THREE)					
	Increase recreation programs for youth	☐ Protect & promote historical resources					
	Increase recreation programs for adults	☐ Develop walking trails					
	Increase recreation programs for adults (60+ yrs)	\square Develop bike paths					
	Maintain existing recreational facilities	☐ Improve handicapped accessibility to facilities &					
	Our recreational facilities/programs are fine -no changes are needed.	programs Develop other outdoor recreation					
	Improve river access points	facility:					
8. Whi	ch of the following should be the Town's HIGHEST op	ppen space protection priorities? (choose up to THREE)					
	Encouraging agriculture/ protecting farmland	$\ \square$ Protecting land for wildlife habitat					
	Protecting forest land	☐ Protecting other natural resources:					
	Protecting drinking water resources						
	Protecting scenic views	$\ \square$ I think Gill has enough protected land					
	Protecting land along rivers and streams						
9. To p	permanently protect open spaces in Town, I would be	be willing to: (check all that apply)					
☐ Donate money for the Town to buy land							
	□ Donate some of my land to the Town□ Pay higher taxes for the Town to buy/protect land						
	☐ Sell my land at a discounted price						
Sell or contribute a conservation restriction to limit future development on my land							
	Not sure. Would like more information on preserving	ng land options.					
	Other						
10. Ple	ase provide any additional comments on open space	ce and recreation in Gill:					
11. V	Vhat is your age? ☐ Under 12 years ☐ 19-60 years	12. Total number of children in your household? 0-5 years old					
	☐ 13-18 years ☐ Over 60 years	6-12 years old					
		13-18 years old					

Please return this survey by March 1, 2020 to one of the following locations: Town Hall or Library. It can also be filled out online at www.gillmass.org or mailed to Town Hall, 325 Main Road, Gill, MA 01354.

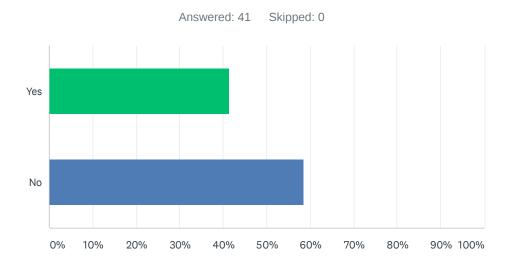
Thank you for your help!

Q1 Which of the following open space & recreational resources do you or your family use (check all that apply)?



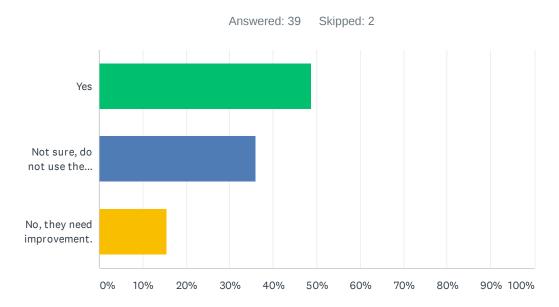
ANSWER CHOICES	RESPONSES	
Gill Elementary School playground	27.50%	11
Gill Elementary School nature trail	15.00%	6
Barton Cove	82.50%	33
Connecticut River	72.50%	29
Northfield Mount Hermon School facilities	32.50%	13
My own land	80.00%	32
Riverside Municipal Building (aka Green School, aka Four Winds School)	10.00%	4
Stacy's Ferry (river's edge at end of River Road)	20.00%	8
Town Forest (main entrance on Hoe Shop Road)	55.00%	22
Recreational Programming	10.00%	4
Senior Center Programming	12.50%	5
Community Events	20.00%	8
Other (please specify)	2.50%	1
Total Respondents: 40		

Q2 Were you aware that all of these open space/recreational resources existed in Gill?



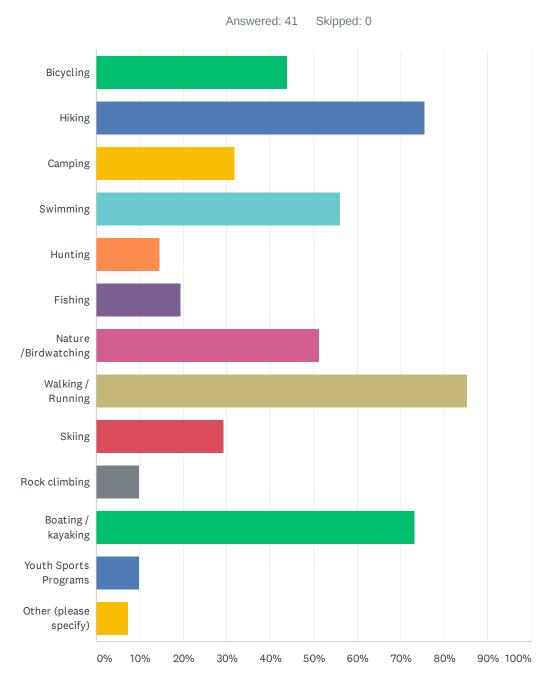
ANSWER CHOICES	RESPONSES	
Yes	41.46%	17
No	58.54%	24
Total Respondents: 41		

Q3 Do you feel that the existing recreational facilities are in good condition?



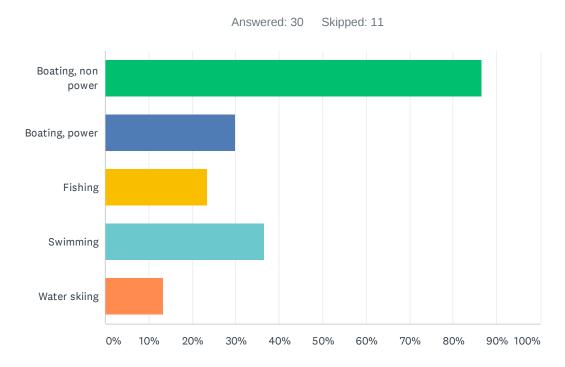
ANSWER CHOICES	RESPONSES	
Yes	48.72%	19
Not sure, do not use the facilities	35.90%	14
No, they need improvement.	15.38%	6
TOTAL		39

Q4 Which of the following outdoor recreational activities do you or family participate in (in or out of Town) (check all that apply):



ANSWER CHOICES	RESPONSES	
Bicycling	43.90%	18
Hiking	75.61%	31
Camping	31.71%	13
Swimming	56.10%	23
Hunting	14.63%	6
Fishing	19.51%	8
Nature /Birdwatching	51.22%	21
Walking / Running	85.37%	35
Skiing	29.27%	12
Rock climbing	9.76%	4
Boating / kayaking	73.17%	30
Youth Sports Programs	9.76%	4
Other (please specify)	7.32%	3
Total Respondents: 41		

Q5 Does your household use the Connecticut River for the following activities (check all that apply):

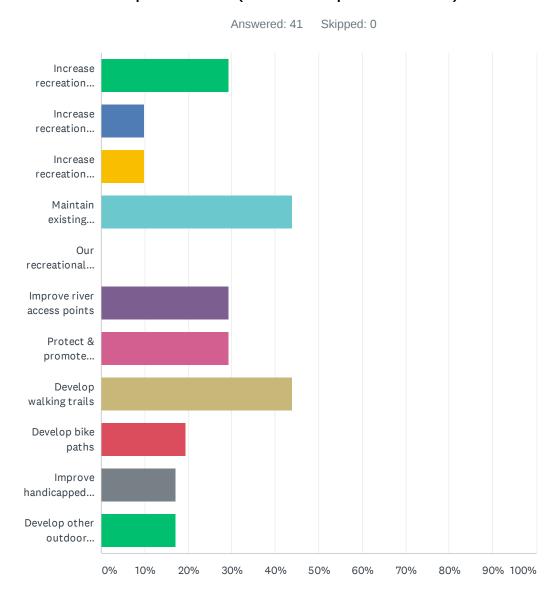


ANSWER CHOICES	RESPONSES	
Boating, non power	86.67%	26
Boating, power	30.00%	9
Fishing	23.33%	7
Swimming	36.67%	11
Water skiing	13.33%	4
Total Respondents: 30		

Q6 Are there any outdoor recreational activities that you enjoy outside of Town and want the Town to provide?

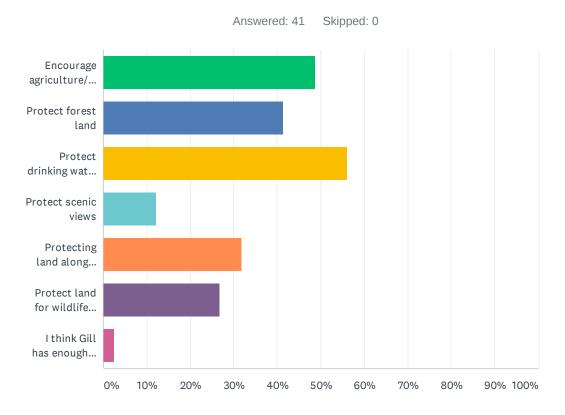
Answered: 13 Skipped: 28

Q7 Which of the following should be the Town's HIGHEST recreation priorities? (Choose up to THREE)



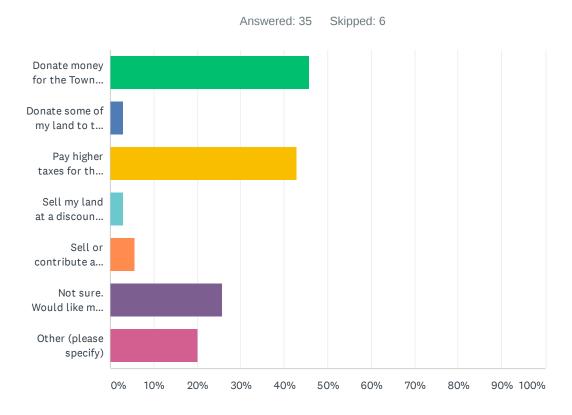
ANSWER CHOICES	RESPONSES	
Increase recreation programs for youth	29.27%	12
Increase recreation programs for adults	9.76%	4
Increase recreation programs for adults (60+ years)	9.76%	4
Maintain existing recreational facilities	43.90%	18
Our recreational facilities/programs are fine - no changes are needed.	0.00%	0
Improve river access points	29.27%	12
Protect & promote historical resources	29.27%	12
Develop walking trails	43.90%	18
Develop bike paths	19.51%	8
Improve handicapped accessibility to facilities & programs	17.07%	7
Develop other outdoor recreation facility:	17.07%	7
Total Respondents: 41		

Q8 Which of the following should be the Town's HIGHEST open space protection priorities? (choose up to THREE)



ANSWER CHOICES	RESPONSES	
Encourage agriculture/protecting farmland	48.78%	20
Protect forest land	41.46%	17
Protect drinking water resources	56.10%	23
Protect scenic views	12.20%	5
Protecting land along rivers and streams	31.71%	13
Protect land for wildlife habitat	26.83%	11
I think Gill has enough protected land	2.44%	1
Total Respondents: 41		

Q9 To permanently protect open spaces in Town, I would be willing to: (check all that apply)

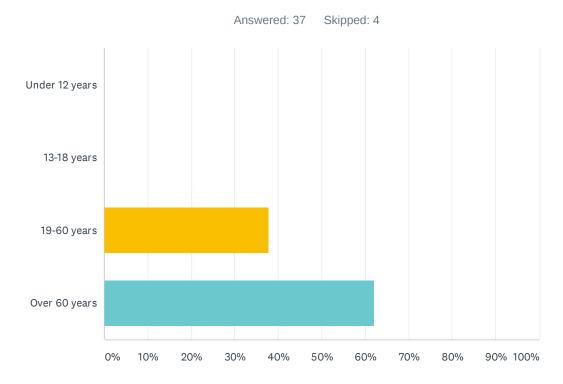


ANSWER CHOICES	RESPONSES	
Donate money for the Town to buy land	45.71%	16
Donate some of my land to the Town	2.86%	1
Pay higher taxes for the Town to buy/protect land	42.86%	15
Sell my land at a discounted price	2.86%	1
Sell or contribute a conservation restriction to limit future development on my land	5.71%	2
Not sure. Would like more information on preserving land options.	25.71%	9
Other (please specify)	20.00%	7
Total Respondents: 35		

Q10 Please provide any additional comments on open space and recreation in Gill:

Answered: 16 Skipped: 25

Q11 What is your age?



ANSWER CHOICES	RESPONSES	
Under 12 years	0.00%	0
13-18 years	0.00%	0
19-60 years	37.84%	14
Over 60 years	62.16%	23
TOTAL		37

Q12 Total number of children in your household?

Answered: 14 Skipped: 27

ANSWER CHOICES	RESPONSES	
0-5 years old	64.29%	9
6-12 years old	71.43%	10
13-18 years old	50.00%	7

Appendix D: ADA Self Evaluation and Transition Plan	

ADA Self-Evaluation and Transition Plan

For the Town of Gill

June 2018

Prepared by the Franklin Regional Council of Governments









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Part A – Introduction

The Town of Gill hired the Franklin Regional Council of Governments (FRCOG) to conduct a comprehensive evaluation of the Town's compliance under Title II of the American Disabilities Act (ADA), which prohibits discrimination on the basis of disability. Specifically, Title II requires that:

No qualified individual with a disability shall, on the basis of disability, be excluded from participation in or be denied the benefits of the services, programs, or activities of a public entity, or be subjected to discrimination by any public entity [35 CFR Part 35.130 (a)].

Title II of the ADA applies to state and local governments, while Title III of the ADA applies to the private sector such as business and non-profit organizations.

In the Spring of 2018, the Town of Gill secured a grant from the Massachusetts Office on Disability and hired the Franklin Regional Council of Governments (FRCOG) to conduct the ADA Self-Evaluation and prepare the ADA Transition Plan. The FRCOG assessed all Town-owned facilities as well as the Town's programs, services, and activities to determine their accessibility to people with disabilities.

Like many communities in Massachusetts, Gill is faced with a number of aging municipal buildings and facilities that may pose obstacles to residents with disabilities. The cost and work that is required to remove these barriers and bring them into compliance can be overwhelming to smaller communities like Gill with less than 1,600 residents. This ADA Self-Evaluation and accompanying Transition Plan makes this daunting task a bit easier by identifying the issues, prioritizing them, and sorting out the high cost actions from the simpler, less expensive tasks.

Title II of the ADA sets administrative requirements on state and local governments and also requires that all Town's programs, services, and activities be accessible to people with disabilities. Part B of this document summarizes the findings regarding the administrative requirements and access to programs, activities, and services. Part C discusses the evaluation and findings of the physical facilities owned by the Town of Gill. Part D is the ADA Transition Plan, which catalogs all accessibility issues of the Town facilities that were found during the evaluations and recommends potential solutions. These recommendations have been prioritized, given an estimated timeframe, and assigned relative costs and responsible departments.

Recent Progress

Gill has been proactive in implementing ADA improvements. These include both large and small projects. Below is a summary of some of the projects that the Town has completed to upgrade its facilities:

- Created a Notice of Non-Discrimination;
- Designated an ADA Coordinator;
- Installed an accessible entrance and concrete ramp at Town Hall;
- Installed a 3-stop elevator at Town Hall;
- Installed a lift for the 2nd floor stage in Town Hall; and
- Constructed a ramp for the Riverside Municipal Building.

Methodology

To conduct the ADA Self-Evaluation of the Town's programs, services, and activities, the FRCOG staff distributed checklists designed by the New England ADA Center (a project of the Institute for Human Centered Design) to all Department Heads that assessed three requirements of Title II of the ADA for each Department's programs and services: ¹

- Effective Communication practices
- General Nondiscrimination practices
- Website accessibility

The FRCOG also used the latest 2010 ADA Standards for Accessible Design (ADAAG 2010) to evaluate all of the Town's buildings and facilities.

¹ Self-Evaluation Form Checklists from the New England ADA Center, https://www.adaactionguide.org/resources#faqs.

Part B – Evaluation of Non-Discriminatory Policies and Practices in Programs, Services, and Activities

Introduction

Title II of the ADA also places administrative requirements on local governments in addition to ensuring the accessibility of the Town's programs, activities, and services. These administrative requirements include the appointment of a Town ADA Coordinator, the creation of a public notice regarding nondiscrimination policies, and the adoption of a grievance procedure. The FRCOG staff, with the assistance of Gill staff, evaluated the Town's compliance with these administrative requirements as well as the Town's policies related to nondiscrimination, effective communication, and website accessibility.

The findings of this evaluation are discussed in this section along with recommendations to ensure compliance with Title II of the ADA.

Analysis

The FRCOG evaluated each of Gill's Departments and the overall Town governance with regard to accessibility requirements. Checklists from the New England ADA Center were provided to each Department Head to complete that evaluated a Department's policies related to General Nondiscrimination, Effective Communication, and Website Accessibility. The findings of these completed checklists are summarized below and recommendations are provided to ensure that people with disabilities are provided the same opportunities as others to participate in programs, services, and activities in the Town of Gill.

1. Designation of Responsible Employer

Title II of the American Disabilities Act requires that a local government designate a responsible employee to coordinate compliance with the ADA and ensure that there is a person at the Town who is knowledgeable with the many requirements of the ADA. The Town of Gill has met this requirement by designating Lynda Hodsdon Mayo, the Town Clerk, as the ADA Coordinator.

² Self-Evaluation Form Checklists from the New England ADA Center, https://www.adaactionguide.org/resources#faqs.

2. Complaint Procedures

In addition to designating an ADA Coordinator, a local government is required to provide a complaint procedure that offers ways for people to file complaints alleging discrimination on the basis of disability with regard to employment or in the provision of services, activities, and programs. Gill has not yet created a formal "ADA Complaint Procedure" although there are general instructions in the Town's Notice of Non-Discrimination.

It is recommended that the Town create a more complete complaint procedure that outlines how a person can contact the ADA Coordinator, a detailed description of the procedure for submitting a complaint, and the reasonable time frames for review and resolution of the complaint that a person filing a complaint may expect.

3. Notice

Title II also requires that a local government provide public notice of the provisions of the ADA to members of the public that may participate in the Town's program, services, and activities. The Town of Gill has created a Notice of Nondiscrimination and posted it to their website and at Town Hall. The notice states Gill's obligations under the ADA and includes procedures for persons with a disability to contact the Town should they require an auxiliary aid or services for effective communication, or a modification of policies or procedures to participate in a program, service, or activity of the Town.

4. Effective Communication

Under Title II of the American Disabilities Act, the Town must communicate effectively with people who may have hearing, vision, or speech disabilities. To do so, this may require Gill to provide auxiliary aids and services to meet its responsibility of effective communication. This may include, but is not limited to: providing sign language interpreters, Computer-Assisted-Real-time-Translation (CART), written materials for persons who are deaf or have difficulty hearing, Braille or large print information in digital format for people who are blind or have difficulty seeing.

All Town of Gill Department Heads completed checklists from the New England ADA Center that evaluated each department's practices and policies regarding their knowledge and ability to provide effective communication for their programs, services, and activities to allow equal participation for persons with disabilities. The completed checklists show that Town staff are very willing to comply with Title II, but may not know exactly how to do so in practice. In particular, most staff members do not know how to go about arranging for different types of auxiliary aids and services to provide for effective communication when needed, or what the

procedure is for determining when the provision of an auxiliary aid or service is an undue financial or administrative burden. Appendix A provides a summary of the answers to the checklist's questions regarding effective communication practices.

To ensure that Town staff comply with Title II, it is recommended that Gill develop and distribute clear processes for employees as to how to arrange for auxiliary aids and services. A written informational handout on Effective Communication Procedures will help staff understand their responsibilities and clarify what to do in the event a person needs assistance with communication.

5. Reasonable Modifications of Policies, Practices, and Procedures

Title II of the ADA also requires that local governments ensure people with disabilities have an equal opportunity to participate in the services, programs, and activities that the Town provides. This may require that the Town of Gill provide "reasonable modifications" to policies and practices to allow equal participation. When applying to Town staff, this requirement may include modifying work schedules; job restructuring; and making facilities used by employees readily accessible to an employee with a disability. When applying to members of the public to be able to participate in a program, service, or activity, this requirement may include allowing service animals in locations where animals are not typically permitted; allowing the use of motorized devices in places where they are not allowed; or providing assistance with application completion.

The results of the completed checklists from the Town's Department Heads show that with respect to the general nondiscrimination requirements of Title II, Gill staff members are very willing to comply and have a good, general understanding of the many responsibilities and requirements that they have as a local government. However, there are topics with which Department staff could be more familiar. For example, some departments did not know that they are supposed to notify and require assurances from contractors to fulfill Title II requirements. Appendix A provides a summary of the answers to the checklist's questions regarding general nondiscrimination practices.

A written and distributed summary of nondiscrimination policies will help staff ensure that all participants have the opportunity for equal participation.

6. Website Accessibility

Title II of the American Disabilities Act requires that local governments ensure that, when viewed in their entirety, the programs, services, and activities offered are equally available to people with disabilities. Websites of a local government are considered to be a "program" and

should be accessible to the standards of the Web Content Accessibility Guidelines 2.0 AA or Section 508 Standards.

To evaluate the Town of Gill's website, a checklist was sent to the Town's webmaster. The completed checklist shows that the webmaster is aware of their responsibilities regarding accessibility. However, the webpage has not yet been tested for compliance with the latest standards and Town staff are not familiar with those standards.

The Town should have the webmaster test the website for compliance with the latest accessibility standards and evaluate what and how much needs to be revised. Once that is completed, Gill should develop a written policy stating that the Town website should be accessible to ensure that existing and future staff members who have website administrative privileges maintain the accessibility of the website. In addition, staff should be provided guidance about the requirements of the Web Content Accessibility Guidelines 2.0 AA. It would also be very helpful to the Town if people with disabilities who use screen reading software and other assistive technology periodically evaluate the website.

Part C – Evaluation of Facilities

Introduction

FRCOG staff evaluated all Town-owned facilities for this ADA Self-Evaluation in May of 2018 according to the 2010 ADA Standards. These include the following facilities:

Facilities owned by the Town of Gill

- Town Hall
- Slate Memorial Library
- Public Safety Complex
- Riverside Municipal Building

- Gill Elementary School
- Elementary School Nature Area
- Riverside Recreational Fields
- Blake Town Forest

Analysis of Building Accessibility

Gill's Town-owned buildings range in levels of accessibility. For this report, the FRCOG has assigned categories of "functional accessibility" to each facility for ease of reference. These categories are:

- Accessible the facility is accessible to a wheeled mobility device user or person with mobility challenges;
- **Mostly Accessible** A wheeled device user or person with mobility challenges can enter the facility, access the primary function with the facility, and access the bathroom;
- Moderately Accessible A wheeled device user or person with mobility challenges can enter the facility, access the primary function within that facility;
- Minimally Accessible A wheeled device user or person with mobility challenges can enter the facility;
- **Inaccessible** A physical barrier exists that would prevent a wheeled device user from entering the facility.

The following table places each building into one of these categories:

Accessible	Mostly Accessible	Moderately	Minimally	Inaccessible
		Accessible	Accessible	
	Town Hall	Public Safety		Clata Library
	TOWN Hall	Complex		Slate Library
	Cill Flomontony	Riverside		
	Gill Elementary School	Municipal		
	301001	Building		

The above assessment rates each building's accessibility based on the ability of people with disabilities to access the programs, services, and activities that are offered within those buildings. However, it should be noted that many Town buildings have areas within them that are not accessible at all (ex. basements or staff-only storage areas). Making these spaces accessible according to the 2010 ADA Standards may be structurally difficult and/or practically infeasible. Despite these potential obstacles, this accompanying Transition Plan identifies issues within these spaces and recommends ways to improve accessibility in ways that may be feasible – at least for users who do not require wheeled mobility devices – while acknowledging the inaccessibility these spaces pose for some persons with disabilities.

An important caveat to this rating system is that it primarily evaluates the Town facilities from a member of the public's perspective, not necessarily from the perspective of an employee who must work in these facilities and access non-public spaces on a regular basis. However, all of the deficiencies in the buildings with respect to the 2010 ADA Guidelines have been noted in the ADA Transition Plan that is included in this Report.

Summary of Building Evaluation Findings

1. Town Hall

While this building is mostly accessible, it does have some issues that need to be addressed in order to make it fully accessible. Fortunately, many of these issues are relatively simple and inexpensive, such as installing tactile/Braille signage and moving grab bars in bathrooms. More expensive, yet feasible upgrades include replacing the staff kitchen sink with one that has toe/knee clearance underneath and removing the threshold step into the kitchen.

2. Gill Elementary School

The Gill Elementary School is also rated as mostly accessible in that users can access the primary function of the building and use the bathroom. However, there is a more

extensive list of issues that should be addressed to bring the building into ADA compliance. This includes: installing tactile/Braille signage, ensuring that all classroom doorways have enough clearance to the sides to pull open or push shut, moving bathroom grab bars, and making sure that hallways are free of obstructions. A potentially more difficult issue is access to the cafeteria kitchen and tray slide area. The entrance area to the tray slide is very tight with little turning space and the aisle next to the tray slide is too narrow for someone in a wheeled mobility device.

Another issue with the Gill Elementary School is the accessibility of its playground. It must be reached by paths that are very steep and there are no accessible routes connecting each of the playground components. The path from the building to the playground ranges from 16-20% slope when the maximum allowable slope is 6.25%.

3. Public Safety Complex

The Public Safety Complex includes three departments: the Fire Department, Police Department, and the Highway Department. In addition, the Fire Department functions as the Town's polling center. The entire complex has been rated as moderately accessible. While people with mobility challenges should be able to enter the various departments, they may have difficulty in doing so. Both doors to the Fire Department have either a large step or a high threshold. The Fire Department, however, can open its garage doors if necessary for access for an individual with a wheeled device who is unable to cross the 1 inch high threshold. There is a ramp to the Police Department's main entrance, but it may be difficult for someone in a wheeled mobility device to push open the door due to the small level landing at the top of the ramp. Additionally, there is no railing on the ramp. The entrance door to the Highway Department has a turn knob fixture that cannot be operated with a closed fist.

In addition, the bathrooms in each of the departments may be difficult or impossible to access for individuals with wheeled devices or mobility challenges. The bathrooms in the Fire Department (also polling center) are only accessed via steps. The route to the bathroom in the Police Department has narrow doorways, which may not be able to accommodate someone in a wheeled mobility device.

4. Riverside Municipal Building

The Riverside Municipal Building contains offices for Gill's Historical Commission and the Riverside Water District. A portion of the building is also leased to a private middle school. The building used to be Gill's former elementary school and still retains many of its historical features. The building is rated as moderately accessible because people can enter the building via a ramp and access its primary functions; however they may have difficulty using the bathroom. The issues with the bathroom are primarily due to the door – it has hinges that narrow its width, it does not have a pull handle on the interior side of the door, and there is no clearance to the side of the door to pull it open.

5. Slate Memorial Library

The Slate Memorial Library is a historic one-room library in Gill Center. It is rated as inaccessible due to the fact that the inner vestibule of the entrance is too difficult and tight to navigate for someone in a wheeled device or with mobility challenges. The vestibule contains multiple doors that must be opened in opposite directions in a tight space. In addition, the only bathroom in the building is located in the basement via a narrow, steep flight of stairs and is only for library staff. Reconfiguration of the vestibule area and doors will be needed to make the building and its Library Program moderately accessible.

Part D - ADA Transition Plan

The ADA Transition Plan for Gill catalogs every issue that the FRCOG staff discovered during the Self-Evaluation of the Town's buildings and facilities in April-May 2018. The Transition Plan recommends solutions to bring these identified issues into compliance with the 2010 ADA Guidelines and then prioritizes them, provides relative costs, estimates a feasible timeframe of implementation, and assigns the issue to the appropriate implementing department. In addition, the majority of issues have been documented with photographs, which can be found in an accompanying CD-ROM and Appendix B.

The following categories were used for the Transition Plan's prioritization:

- 1) Priorities: High Medium Low
- 2) Timeframe: Short (0-4 years)

 Medium (5-9 years)

 Long (10+ years)

 Ongoing
- 3) Cost: \$\$\$\$ (Major capital project) \$\$\$ \$\$ \$ (Maintenance)

Gill Elementary School (48 Boyle Road)

						Current		Priority	Timeframe	Cost	Responsible
Location	Room	Element	Туре	Photo	Issues	Measure	Recommendations	Priority	rimerrame	Cost	Dept.
Approach and Entrance	es										
							Reduce threshold height or bevel to a				
Main entrance		Doorway	Threshold	534	Threshold is too high.	>1/2"	maximum of 1/4".	High	Short	\$	GMRSD
							Lower intercom to a maximum of 54" above				
Main entrance		Doorway	Intercom	538	The intercom is placed too high on wall.	55.5"	ground	High	Short	\$	GMRSD
Parking	•	•		,	-		•		•		•
							Move sign higher to a minimum of 60" above				
Main parking lot		Accessible parking	Signage	536	Sign is too low to the ground	49"	the ground.	Medium	Short	\$	GMRSD
							Designate an additional accessible space next				
					With approximately 30 spaces in the parking		to existing space. At least 1 of these spaces				
		Accessible parking	Spaces		lots, there should be 2 accessible spaces.	1	should be Van Accessible.	High	Short	Ś	GMRSD
		, tereseasia in partiting				_			0.1.0.1.0		00
							Expand width of access aisle to 5'. Note:				
					Current accessible space has an access aisle		could place 5' wide access aisle between this				
		Accessible parking	Spaces	537	that is too narrow.	4'	and new space to left which they could share.	High	Short	Ś	GMRSD
		Accessible parking	Spaces	337	that is too harrow.	4	and new space to left which they could share.	High	311011	ڔ	GIVIKSD
					Bike racks are not located on an accessible		Ensure bike racks are connected to an				
Discords Davids		Aible Devite					accessible route via a smooth, stable route.	1	Ch	Ś	CMBCD
Bicycle Racks		Accessible Route			route .		accessible route via a smooth, stable route.	Low	Short	<u> </u>	GMRSD
Playground	1		ı	<u> </u>	1	i	Т				
					There is not accessible route to playground or		Provide an accessible route to the entrance of				
					any of the structures. Current ramp to the		the play area and to each ground level				
Playground		Accessible Route			playground has slopes of 16-20%.		component.	Medium	Medium	\$\$\$	GMRSD/Town
Access to Goods and Se	rvices				_		_				
							Install signage on the latch side of doors that				
							can be read using touch and with contrasting				
					There is no signage with tactile characters or		colors. Ensure a clear space within 3 inches of				
Entire building		Signage			Braille on any rooms.		signage.	High	Short	\$\$	GMRSD
					The majority of the exterior emergency exit		Redesign thresholds so that they do not				
Entire building		Emergency exits	Thresholds	602	doors have high thresholds of several inches.		exceed 1/4" in height.	Medium	Short	\$\$	GMRSD
					The majority of classroom sinks do not have						
					toe or knee clearance positioned for a		Provide a sink with toe and knee clearance for				
All Classrooms		Sinks		578	forward approach.		a forward approach.	Medium	Medium	\$\$	GMRSD
					Most classrooms do not have 18" of clearance						
					to side of latch on pull side of door or 12" of						
					clearance to side of latch on push side of door		Relocate furniture to create appropriate				
		Accessible Route		582	due to furniture.		clearances.	High	Short	Ś	GMRSD

Gill ES Page 1

						Current		Priority	Timeframe	Cost	Responsible
Location	Room	Element	Туре	Photo	Issues	Measure	Recommendations	Filolity	Timename	COSE	Dept.
							Maintain a clear area of 30" x 48" under all				
Main entrance lobby		Accessible Route		541	There is not clear space under fire pulls.		switches and fire pulls.	High	Short	\$	GMRSD
					Doorway entrance area is too tight for		Should have a 30" x 48" clearance past				
Cafeteria	Kitchen	Accessible Route	Entrance	545	maneuvering.		doorway.	Medium	Medium	\$\$\$	GMRSD
							If possible, move tray slide back to create an				
	Kitchen	Accessible Route	Hallway	546	Aisle space with tray slide is too narrow.	24"	aisle of a minimum of 36" wide.	Medium	Medium	\$\$\$	GMRSD/Town
	Main				Doorway width is too narrow due to central		Replace doors that have a minimum				
Multi-Purpose Room	entrance	Door		555	door jamb.	29.5"	clearance width of 32".	High	Medium	\$\$	GMRSD/Town
					Sign for fire extinguishers are too low		Raise height of sign so that bottom is no less				
Hallway		Signage		556	(multiple locations in hallway).	76"	than 80" from floor.	Low	Short	\$	GMRSD
					Door has a fixture that can't be operated with		Replace door handle with a lever or loop that				
Staff Bathroom		Accessible Route	Door	559	a closed fist.		can be operated with a closed fist.	High	Short	\$	GMRSD
							Install side and rear grab bars at a height of				
		Toilet Room		560	There are no side or rear grab bars.		33-36" above the floor.	High	Short	\$	GMRSD
							Cover the piping with insulation to protect				
		Toilet Room	ļ	560	There is exposed piping under the sink.		against contact.	High	Short	\$	GMRSD
					The vestibule area inside bathroom is too						
					small for maneuvering with door that swings						
					in. The route is only 29" wide due to privacy		Ensure appropriate clearance by repositioning				
Girl's Main Bathroom		Accessible Route	ļ	562	wall.		privacy wall.	High	Short	\$\$	GMRSD
							Cover the piping with insulation to protect				
		Toilet Room	ļ	563	There is exposed piping under the sink.		against contact.	High	Short	\$	GMRSD
							Lower mirror so that bottom is no higher than				
		Mirror		565	The mirror is positioned too high.		40" from floor.	High	Short	\$	GMRSD
							Lower grab bars to 33-36" from floor. Note:				
							standards for children grab bar heights are				
					L		lower ranging from 20"-27" depending on age				
		Grab bars	ļ	_	The side and rear grab bars are too high.	37"	served.	High	Short	\$	GMRSD
		ADA stall	ļ	568	Self-closing hinge is not working.		Repair hinge so that door self-closes.	High	Short	\$	GMRSD
					The vestibule area inside bathroom is too						
					small for maneuvering with door that swings						
					in. The route is only 29" wide due to privacy		Ensure appropriate clearance by repositioning				
Boy's Main Bathroom	ļ	Accessible Route	ļ	569	wall.		privacy wall.	High	Short	\$\$	GMRSD
							Cover the piping with insulation to protect				014000
		Toilet Room	1	570	There is exposed piping under the sink.		against contact.	High	Short	\$	GMRSD
		ļ., a:					Lower mirror so that bottom is no higher than		CI .		CMCCC
		Mirror	1	570	The mirror is positioned too high.		40" from floor.	High	Short	\$	GMRSD
		Entrance to ADA			Urinal in front of door to ADA stall prevents a		Reconfingure stall so that door opens			**	
		stall	ļ		clear pathway into stall.		differently, possibly on front side.	High	Short	\$\$	GMRSD
							Reconfigure flush control to be on the open			**	0.4555
		Toilet in ADA stall		572	Flush control is not on the open side.		side of the stall.	Medium	Medium	\$\$	GMRSD

Gill ES Page 2

						Current		.			Responsible
Location	Room	Element	Туре	Photo	Issues	Measure	Recommendations	Priority	Timeframe	Cost	Dept.
					Door does not have 18" of clear space beyond						
					the latch on the pull side of the door due to		Move furniture to ensure 18" of maneuvering				
Nurse's Office		Accessible Route		574	furniture.		space to side of door.	High	Short	\$	GMRSD
	Toilet Room	Accessible Route		575	Door is too narrow.	24"	Widen doorway to a minimum of 32".	Medium	Medium	ŚŚ	GMRSD
	10110011100111	7 10000001010 110 010			Section to the many of the section o		Relocate toilet paper dispenser to side of	11100101111		77	0
					Toilet paper is located across from toilet and		toilet no higher than 48" from floor and 7-9"				
	Toilet Room	Toilet paper		575	is too far to reach.		from front of toilet.	Medium	Short	Ś	GMRSD
Hallway outside of							Lower defibrillator box to a maximum of 54"				
Nurse's Office		Defibrillator box		577	Defibrillator box is located too high on wall.	68"	from floor.	Medium	Short	\$	GMRSD
							Install a barrier at floor of beginning/end of				
							shelves to warn the visually-impaired of				
Hallway		Shelving		581	Shelving protrudes too far from wall.	9"	protrusion, such as cubbies.	High	Short	\$\$	GMRSD
							Lower thermostat to a maximum of 54" from				
Hallway		Thermostat		583	Thermostat is located too high on the wall.	60"	floor.	Low	Short	\$	GMRSD
					There is not always a 36" clear pathway of		Rearrage furniture so that a 36" clear path to				
Library/Media Room		Accessible Route		591	access through room.		books and seating is maintained.	High	Short	\$	GMRSD
							Install grab bars. Note: standards for children				
							grab bar heights are 20"-25" for ages 5-8 yrs				
Kindergarten	Bathroom	Grab bars		595	There are no side or rear grab bars.	37"	old.	Medium	Short	\$	GMRSD
		Door			Doors are heavy and difficult to open.		Adjust closer on doors.	High	Short	\$	GMRSD
							Install grab bars. Note: standards for children				
					There is no rear grab bar in 1 toilet room and		grab bar heights are 20"-25" for ages 5-8 yrs				
First grade	Bathroom	Grab bars		599	no bars in the other.		old.	Medium	Short	\$	GMRSD
		Toilet		599	Flush control handle is not on the open side.		Relocate flush control to open side of toilet.	Medium	Medium	\$\$	GMRSD
					·		Relocate toilet paper dispenser to side of				
					Toilet paper is located across from toilet and		toilet no higher than 48" from floor and 7-9"				
		Toilet paper		599	is too far to reach.		from front of toilet.	Medium	Short	\$	GMRSD
		Door			Doors are heavy and difficult to open.		Adjust closer on doors.	High	Short	\$	GMRSD

Gill ES Page 3

Town Hall (325 Main Road)

Location						Current		Priority	Timeframe	Cost	Responsible
Location	Floor	Room Elem	ment	Photo	Issues	Measure	Recommendations	Priority	Timetranie	Cost	Dept.
Approach and Entrances											
Main parking lot		Signa	age	614	Sign for accessisble entrance is too low.	44"	Raise height of sign to 60" from ground.	Medium	Short	\$	Highway
Parking											
Accessible parking spaces		Signa	age	615	Signs for accessible parking is too low.	44"	Raise height of signs to 60" from ground.	Medium	Short	\$	Highway
					Striping for accessible spaces have worn		Restripe spaces so that parking areas are				
Accessible parking spaces		Strip	oing	618	away.		clear.	High	Short	\$	Highway
1					Bike racks are not located on an accessible		Ensure bike racks are connected to an				
Bicycle parking		Acce	essible Route	645	route .		accessible route via a smooth, stable route.	Medium	Short	\$	Highway
Access to Goods and Service	ces		•								
							Install signage on the latch side of doors that				
1					Many rooms are missing signage with tactile		can be read using touch. Ensure a clear space				
Entire building		Signa	age		characters or Braille.		within 3 inches of signage.	High	Short	\$\$	Highway
							Extend handrails around the outside of the				
1					Handrails on stairway should extend 12" onto		landing and 12" past the top and bottom of				
Upstairs meeting room	2	Stair	rway (both)	623	horizontal surface.		the stairs.	Medium	Medium	\$\$	Highway
					Flush control is not on the open side of the						
Men's Bathroom	1	Toile	et	628	toilet.		Relocate flush control to open side.	Medium	Medium	\$\$	Highway
		Grab	b bar	628	Side grab bar is too low.	30"	Raise height of side grab bar to 33-36".	High	Short	\$	Highway
Women's Bathroom	1	Grab	b bar	632	Side grab bar is too low.	30"	Raise height of side grab bar to 33-36".	High	Short	\$	Highway
							Reconfigure cabinetry to allow a forward				
1					Sink does not have toe or knee clearance for a		approach with sufficient toe and knee				
1					forward approach and walls prevent a parallel		clearance with depth of 17"-25" and clear				
Staff Kitchen	1	Sink	:	630	approach.		space of 27" from floor.	Medium	Medium	\$\$	Highway
							Lower counter to a maximum of 34" from				
1		Cour	nter	630	Counter is too high.	36"	floor.	Medium	Medium	\$\$	Highway
1		Thre	eshold	631	Threshold to kitchen is too high.	1"	Reduced threshold to no more than 1/4".	High	Short	\$	Highway
					Not enough room on push side of door latch		Rehang door so that it opens to the opposide				
Administrator's Office	1	Acce	essible Route	635	for maneuvering due to wall.	3"	side away from wall.	High	Short	\$	Highway
							Extend handrails around the outside of the				
1					Stairway is steep and too narrow without		landing and 12" past the top and bottom of				
Stairways	В	Stair	rway	638	proper handrails.		the stairs.	Medium	Medium	\$\$	Highway
							Rearrange furniture and objects to maintain a				
Hallway	В	Acce	essible Route	640	Furniture and objects in way of clear pathway.		36" wide pathway.	High	Short	\$	Highway
					There is no tactile star on the door jambs		Install a tactile star on both 1st floor door				
Elevator	1	Signa	age		identifying the main entry level.		jambs of the elevator.	Medium	Short	\$	Highway

Town Hall Page 4

Public Safey Complex - Fire Station (196 Main Road)

*Used as Town's Polling Station

						Current		Priority	Timeframe	Cost	Responsible
Location	Room	Element	Туре	Photo	Issues	Measure	Recommendations	Filolity	Timetranie	Cost	Dept.
Approach and Entrances											
							Repair threshold so that there is not a vertical				
Rear Entrance		Accessible Route	Threshold	955	Rear entrance has a high threshold.	1"	height >1/4".	High	Short	\$	Highway
Parking	•	•	•		•		•				•
					Temporary accessible parking space signs are		Make sure spacing of signs allow for 8ft space				
Rear Parking		Accessible Parking			placed near rear entrance during elections.		with 5ft aisle.	High	Short	\$	Highway
Access to Goods and Ser	vices										
							Install signage on the latch side of doors that				
					There is no signage with tactile characters or		can be read using touch. Ensure a clear space				
Entire Building		Signage			Braille on any rooms.		within 3 inches of signage.	High	Short	\$	Highway
							Lower light switch to no higher than 54".				
							Create toe/knee clearance under sink with				
		Fixtures and			Light switch is too high. Sink does not have		depth of 17"-25" and a clear space 27" tall				
Kitchen	Kitchen	switches		944	toe/knee clearance.	Light = 58"	from floor.	Medium	Medium	\$\$	Highway
					Route to bathrooms are only accessible by a		Explore ways to install ramp or improve				
Hallway to Bathrooms		Accessible Route		956	8" step.		access.	High	Medium	\$\$\$	Highway
							Reconfigure stalls so that there is appropriate				
							clearance for maneuvering and install grab				
Bathrooms		Toilet		970	There are no accessible toilet stalls.		bars.	High	Medium	\$\$	Highway

Public Safety -Fire Station Page 5

Public Safey Complex - Highway Garage (196 Main Road)

					Issues	Current				_	Responsible
Location	Room	Element	Туре	Photo		Measure	Recommendations	Priority	Timeframe	Cost	Dept.
Approach and Entrances							•				
1							Replace door hardware with ones that can be				
					Door hardware is a turn knob that cannot be		operable with one hand and not require tight				
Main Entrance		Door		979	operated with a closed fist.		grasping, pinching, or twisting of the wrist.	High	Short	\$	Highway
Access to Goods and Serv	vices										
1											
							Replace door hardware with ones that can be				
					Door hardware is a turn knob that cannot be		operable with one hand and not require tight				
Entire Highway Building		Doors			operated with a closed fist.		grasping, pinching, or twisting of the wrist.	High	Short	\$	Highway
							Create toe/knee clearance under sink with				
							depth of 17"-25" and a clear space 27" tall				
Kitchen	Kitchen	Sink		944	Sink does not have toe/knee clearance.		from floor.	Medium	Medium	\$\$	Highway
						2011	1451			**	
Breakroom	Breakroom	Accessible Route	Door	983	Door to break room is too narrow.	28"	Widen doorway to minimum width of 32".	Medium	Medium	\$\$	Highway
		L			L		Reconfigure flush control to be on the open				
Bathrooms		Toilet		975	Flush control is not on the open side.		side of the stall.	Medium	Medium	\$\$	Highway
							Replace current sink or install a second sink				
							with appropriate clearance and fixtures that				
							can be operable with one hand and not				
					There is no sink that has sufficient depth		require tight grasping, pinching, or twisting of				
		Sink		975	underneath.		the wrist.	Medium	Medium	\$\$	Highway

Public Safety - Highway Page 6

Public Safey Complex - Police Station (196 Main Road)

					Current		Priority	Timeframe	Cost	Responsible
Location	Element	Туре	Photo	Issues	Measure	Recommendations				Dept.
Approach and Entranc	es			T						
				Sidewalk has a slope of 9% and has an		Treat sidewalk as a ramp and add features				
Main Entrance	Accessible Route	Ramp	989	increase in height of 9.5".		such as handrails and edge protection.	High	Medium	ŚŚ	Highway
Parking	Accessible Route	Kallip	303	increase in neight of 5.5 .		such as handrails and edge protection.	nign	Wediaiii	<u> </u>	Highway
raikiiig			<u> </u>			Clearly designate an accessible parking space		l I		
						with pavement markings and sign that is 60"				
				There is no space designated as an accessible		from ground. It must also be marked as Van				
Parking Lot	Accessible Parking		986	space.	0	Accessible.	High	Short	Ś	Highway
Access to Goods and S			1	Top and a second		1,			<u> </u>	····g·····-y
				Service counter is too high and does not have		Provide a lower counter that is not higher				
Front Lobby	Service Counter		990	toe/knee clearance.	44"	than 36" with 17"-25" of depth underneath.	High	Medium	\$\$	Highway
						If possible, move air conditioner higher so				
				Air conditioner protrudes too far into		that bottom edge is above 80" from floor.				
Front Lobby	Accessible Route	Protrusion	1008	pathway.		Provide remote control to access switches.	Medium	Medium	\$\$	Highway
				Doorway is too narrow into Conference Room						
Conference Room 1	Accessible Route	Doorway	995	1 and is the pathway to the bathroom.	27"	Widen door width to a minimum of 32".	High	Medium	\$\$	Highway
						Lower mirror so that bottom edge is no				
				Sink has exposed piping and mirror is too		higher than 40" and cover piping with				
Bathroom	Sink		999	high.	48"	protective materials to avoid contact.	Medium	Short	\$	Highway
L				Doorway width is narrowed due to platform		Shorten platform so that it does not extend				
Booking Room	Accessible Route	Doorway	1000	for booking counter.		past door frame.	Medium	Short	\$	Highway
			1,000		4.411	Provide a lower counter that is not higher		,, ,		
Booking Room	Service Counter		1002	Counter for fingerprints is too high.	44"	than 36" if possible.	Medium	Medium	\$	Highway

Public Safety - Police Page 7

Slate Memorial Library (360 Main Road)

					Current		Priority	Timeframe	Cost	Responsible
Location	Floor	Element	Photo	Issues	Measure	Recommendations				Dept.
Approach and Entrances										
				Main entrance door has turn knobs for		Replace door hardware with ones that can be				
				hardware that cannot be operated with a		operable with one hand and not require tight				
Main Entrance		Door		closed fist.		grasping, pinching, or twisting of the wrist.	High	Short	\$	Highway
						Remove/reconfigure inner vestibule doors so				
				Insufficient space to navigate through		that a user with a wheelchair can navigate				
Main Entrance		Vestibule		vestibule and open or close multiple doors.		through the space.	High	Medium	\$\$	Highway
Parking										
						Clearly designate an accessible parking space				
						with pavement markings and sign that is 60"				
				There is no parking space designated as an		from ground. It must be marked as Van				
Parking Lot		Accessible Parking	1010	accessible space.	0	Accessible.	High	Short	\$	Highway
				Bike racks are not located on an accessible		Ensure bike racks are connected to an				
Bicycle Parking		Accessible Route		route .		accessible route via a smooth, stable route.	Medium	Short	ć	Highway
Access to Goods and Servi	COC	Accessible Route	1003	Toute .		accessible route via a smooth, stable route.	ivicululli	SHOLL	<u>, , , , , , , , , , , , , , , , , , , </u>	Tilgitway
Access to doods and servi	ces	1		I		Replace or repair grates so that holes do not	l			
Main Room		Accessible Route	1010	Furnace grates on floor have large holes.	1" x 1"	exceed 1/2" x 1/2".	High	Short	,	Highway
IVIAIII NOUIII		Accessible Route	1019	The only bathroom on site is located in the	1 X I	EXCEEU 1/2 X 1/2 .	nigii	311011	Ş	півнімаў
						Build an accessible bathroom on the first				
D-46		Aible Deci	1020	basement with access solely by stairs. It is also			11:-1-		¢¢¢¢	115-1
Bathroom		Accessible Route	1028	not large enough.		floor.	High	Long	\$\$\$\$	Highway

Library Page 8

Riverside Municipal Building (54 French King Highway)

Location	Floor	Element	Туре	Photo	Issues	Current Measure	Recommendations	Priority	Timeframe	Cost	Responsible Dept.
Approach and Entrance		Liement	Гуре	Filoto	issues	ivieasure	Recommendations				рерг.
Approach and Entrance	<u> </u>	T		1		I		I			
Main Entrance		Accessible Route	Flooring	1035	Carpet is not securely attached and is uneven.		Install an ADA-compliant walk-off mat.	High	Short	Ś	Highway
Parking			+		<u>'</u>	l .	<u>'</u>				, ,
					Signage for accessible parking is too low and		Raise height of sign to minimum of 60" and				
Parking Lot		Accessible Parking	Signage	1033	does not state that it is Van Accessible.	42"	add sign to say that it is Van Accessible.	Medium	Short	\$	Highway
Access to Goods and Se	ervices			•				•			
					Toilet flush control is not on the open side of						
Bathroom	1	Toilet		1038	the toilet.		Move the flush control to the open side.	Medium	Medium	\$\$	Highway
							Replace sink so that it is no taller than 34",				
						35" tall and	has a clearance of at least 27" underneath				
					Sink has exposed piping and does not have	25" clearance	with depth of 17"-25". Cover piping and				
		Sink		1040	proper clearance underneath.	under	relocate trash can under the sink.	High	Medium	\$\$	Highway
					Paper towel dispenser is too high over the		Lower dispenser to a height of no more than				
		Paper Towels		1040	sink.	56"	48" from floor.	High	Short	\$	Highway
							Install pull handle on door and move lock to a				
					There is no pull handle on interior of door and		maximum height of 48". Relocate sink if				
					lock is too high. There is not enough clearance		possible to allow for clearance at side of door		Short/		
		Door		1041	to side of door to pull open.	53"	of at least 18".	High	Medium	\$\$	Highway
							Ensure that thresholds have no more than				
					Thresholds are > 1/4" vertical height or have		1/4" vertical height. Install bevels when				
Main Hallway		Accessible Route	Thresholds	1042	gaps.		necessary.	High	Short	\$	Highway
							Replace door hardware with ones that can be				
					Doors have turn knobs that cannot be		operable with one hand and not require tight				
Main Hallway		Accessible Route	Interior Doors		operated with a closed fist.		grasping, pinching, or twisting of the wrist.	High	Short	\$	Highway
					Many interior doors have large hinges that		Change hinge hardware so that there is a	l	l l		
				1051	narrow doorway width.	31"	minimum width of 32" in doorways.	High	Short	\$	Highway
					<u>L.</u>		Replace handrails that have a top handrail				
L		l			Stairway to basement does not have proper		between 34"-38" and are on both sides of	l	l		l
Basement Stairs	В	Accessible Route	Stairway	1062	handrails.		stairs.	Medium	Medium	\$\$	Highway

Riverside Municipal Page 9

Riverside Recreational Fields (88 Riverview Drive)

					Current		Driority	Timeframe	Cost	Responsible
Location	Element	Туре	Photo	Issues	Measure	Recommendations	PHOHILY	Timetranie	Cost	Dept.
Approach and Entrances										
				There is no accessible path from Riverview						
				Drive or Riverside Municipal Building parking		Install a smooth, stable surface from entrance				
Ballfield	Accessible Routes		922	lot to the ballfield.		to each component.	Medium	Medium	\$\$	Highway
Parking	•	•	•	•		•		·-		
Parking Lot at Riverside						Raise height of sign to minimum of 60" and				
Municipal Building	Accessible Parking	Signage	1033	Signage for accessible parking is too low.	42"	add sign to say that it is Van Accessible.	High	Short	\$	Highway
				There is no designated accessible parking on		Designate a Van Accessible parking space on				
Riverview Drive	Accessible Parking			Riverview Drive.	0	Riverview Drive near the backstop.	High	Short	\$	Highway

Riverside Field Page 10

Blake Town Forest (Hoe Shop Road)

l a a d'a a	51	T	DI		Current		Priority	Timeframe	Cost	Responsible
Location		Туре	Photo	issues	Measure	Recommendations				Dept.
Approach and Entrances	Approach and Entrances									
						To increase the site's accessibility would				
				The main entrance and hiking trail is rough,		require a large impact to the natural state of				
				steep, and uneven. May be accessible to		the area, which would likely compromise the				
Main entrance and trail	Accessible Route		1067	those with minor disabilities.		site's environmental value.				No action

Town Forest Page 11

Nature Area behind Gill Elementary School (48 Boyle Road)

Location	Element	Туре	Photo	Issues	Current Measure	Recommendations	Priority	Timeframe	Cost	Responsible Dept.
Approach and Entrances										
Nature Area	Accessible Route			The walking trail is uneven and rough surface.		Create a path with a firm, stable surface.	Low	Long	\$\$\$	Highway
Parking	•	-					-	-		
				The parking lot is located far from the walking						
				trail and users must cross the ballfields to		Create an accessible path from the parking				
Parking Lot	Accessible Route			access the nature area.		area to the nature area.	Low	Long	\$\$	Highway

E.S. Nature Area Page 12

Appendix A

Summary of responses by Gill Department Heads regarding ADA Policy Requirements

Effective Communication Checklists

General Nondiscrimination Checklists

Website Checklists

	Effective Communication Checklists	Total Re	sponses
	Questions	Yes	No
1)			
	Does the public entity know how to provide the		
	following for people who are deaf or hard of hearing?		ı
	a. Sign language, oral, and cued speech interpreters	3	6
	b. Video remote interpreting (VRI) services	1	6
	c. Computer-assisted real-time transcription (CART)	1	8
	services		0
	d. Assistive listening devices	1	8
	e. Open and closed captioning of videos	1	12
	f. Real time captioning of television programs	1	4
	g. Other	1	0
2)	Does the public entity know how to provide		
	documents in the following formats for people how		
	are blind or visually impaired and others with print		
	disabilities?	_	_
	a. Braille	1	7
	b. Large print	5	8
	c. Audio recordings	2	12
	d. Accessible electronic formats that can be accessed	4	11
	by screen reading software (plain text or html)	4	11
	e. Screen reader software installed on a computer that		
	is used by the public (ie. library)	1	7
	f. Magnification software installed on a computer that		_
	is used by the public (ie. computer lab)	1	7
	g. Optical readers	1	7
	h. Other	0	0
3)	Does the public entity have a policy or procedure to	_	_
	handle requests for auxiliary aids and services?	2	7
4)	Are employees and officials aware of the public		
	entity's obligation to provide auxiliary aids and	9	1
	services?		
5)	Do employees and officials know how to arrange for		
	auxiliary aids and services? Arrangements could be	4	5
	made directly or through the ADA coordinator or	7	,
	another staff person.		
6)	Does the public entity give primary consideration to		
	the person with a disability when determining what	7	1
	type of auxiliary aid or service to provide?		
7)	Are employees and officials aware that it is		
	inappropriate to request that family members and		
	friends of people who are deaf serve as sign language	0	4
	interpreters, except in emergencies or if the individual	8	1
	wants the family member or friend to interpret and it's		
	appropriate to do so?		

	Effective Communication Checklists	Total Re	sponses
	Questions	Yes	No
8)	Are employees and officials aware that a companion of a program participant has a right to auxiliary aids and services if the companion has a communication disability and is an appropriate person with whom the public entity should or would communicate?	4	2
9)	Are captions and audio description provided on videos and televisionprograms the public entity produces and videos on its website?	1	4
10)	Does the public entity have a policy or procedure for determining if an auxiliary aid or service would be an undue financial and administrative burden?	1	7
11)	Do employees and officials know how to respond to telephone calls made through Video Relay Services and Telecommunication Relay Services so that the calls are responded to in the same manner as other telephone calls?	1	7
12)	Where telephones are available to the public for making outgoing calls, such as in hospital waiting rooms, are TTYs available for people with hearing and speech disabilities?	1	3
13)	Do telephone emergency services, including 911, provide direct access topeople who use TTYs and computer modems?	2	1

	General Nondiscrimination	То	tal
	Questions	Yes	No
1)	Do policies, practices and procedures provide an equal opportunity for people with disabilities to participate in services, programs and activities; that is, do policies not discriminate against people on the basis of disability?	8	1
2)	Are there circumstances in which the participation of a person with a disability would be excluded or restricted?	1	8
3)	If yes, are the exclusions or restrictions necessary to the operation of the program or to the safety of other participants?	1	1
4)	Are there separate services, programs or activities for people with disabilities or a class of people with disabilities?	0	9
5)	Do all employees who contract with outside agencies, organizations or businesses know that the public entity's obligations apply whether the public entity provides the service, program or activity directly or contracts for it?	7	0
6)	Does the public entity notify each contractor of its responsibilities for providing contracted services in a nondiscriminatory manner?	4	1
7)	Does the public entity require assurances from contractors of their fulfillment of Title II requirements?	3	2
8)	Are there procedures to ensure that contractors provide the services, programs and activities in a nondiscriminatory manner consistent with the Title II requirements?	4	1
9)	Are employees and officials aware that the public entity is obligated to make a reasonable modification in policies, practices, or procedures if the modification is necessary for a person with a disability to participate?	8	1

	General Nondiscrimination	То	tal
	Questions	Yes	No
10)			
	a. The public entity must allow service animals to accompany people with disabilities in all areas where people without service animals are allowed to go?	9	0
	b. Only two questions may be asked: (1) Is the dog a service animal required because of a disability? and (2) What work or task has the dog been trained to perform?	7	2
	c. The public entity may not ask about a person's disability, require medical documentation, require a special identification card or training documentation for the dog, or ask that the dog demonstrate its ability to perform the work or task?	7	2
	d. A person with a disability cannot be asked to remove his service animal from the premises unless: (1) the dog is out of control and the handler does not take effective action to control it or (2) the dog is not housebroken and, in these circumstances employees must offer the person with the disability the opportunity to obtain goods or services without the animal's presence?	7	2
	e. The public entity must permit a miniature horse to accompany a person with a disability where reasonable?	6	3
11)	Are employees and officials aware that.		
	a. People with mobility disabilities may use wheelchairs, scooters and manually-powered mobility aids, such as walkers, crutches, canes, braces, or other similar devices designed for use by individuals with mobility disabilities in any areas open to pedestrian use?	9	0

	General Nondiscrimination	То	tal
	Questions	Yes	No
	b. People with mobility disabilities may use other power-driven mobility device in any areas open to pedestrian use unless the public entity can demonstrate that the class of other power-driven mobility devices cannot be operated in accordance with legitimate safety requirements?	8	1
	c. They may not ask about the nature and extent of the individual's disability, but may ask an individual to provide a credible assurance that the mobility device is required because of the person's disability?	7	2
12)	Are employees and officials aware that the public entity may not place a surcharge on people with disabilities to cover the costs of measures, such as the provision of auxiliary aids or program accessibility, that are required to provide nondiscriminatory treatment?	9	0
13)	Are tickets for accessible seats sold during the same hours; through the same methods of purchase (by telephone, on site, through a website, or through third-party vendors); and during the same stages of sales (presales, promotions, general sales, wait lists, or lotteries) as non-accessible seats?	3	0
14)	If accessible seating is not available in areas of the venue with lower prices, is lower priced accessible seating available in higher priced locations?	3	0
15)	Do venues and third-party sellers provide the same information about accessible seats as provided about non-accessible seats?	3	0
16)	Can ticket sellers describe accessible seating in enough detail to permit the purchaser to determine if a seat meets his or her needs?	3	0

	General Nondiscrimination	То	tal
	Questions	Yes	No
17)	Do ticket sellers know that people purchasing a ticket for a wheelchair space may purchase up to three additional seats for their companions as close as possible to the wheelchair space and that these companion seats may include wheelchair spaces?	3	0
18)	Do ticket sellers know that unsold accessible seats may be released and sold to members of the general public in only one of three circumstances: when all non-accessible seats have been sold (excluding luxury boxes, club boxes, suites, and seats the venue holds been sold; or when all non-accessible seats in a particular price category have been sold back when declaring a sell-out); or when all non-accessible seats in a particular seating section have been sold; or ①when all non-accessible seats in a particular price category have been sold?	3	0
19)	If the venue permits patrons to give or sell their tickets to others, does the venue know that the same right must be extended to patrons with disabilities and that those tickets may be sold to someone who does not have a disability?	3	0
20)	Do ticket sellers know that for single event tickets, venues may ask purchasers to state that they require, or are purchasing tickets for someone who requires, the features of an accessible seat?	3	0
21)	Do ticket sellers know that for series of events tickets, purchasers may be asked to attest in writing that they require, or are purchasing tickets for someone who requires, the features of an accessible seat?	2	1
22)	Is information about the public entity's accessible services, activities and facilities available to the public and to current and future program participants?	5	3

Website Accessibility Checklists

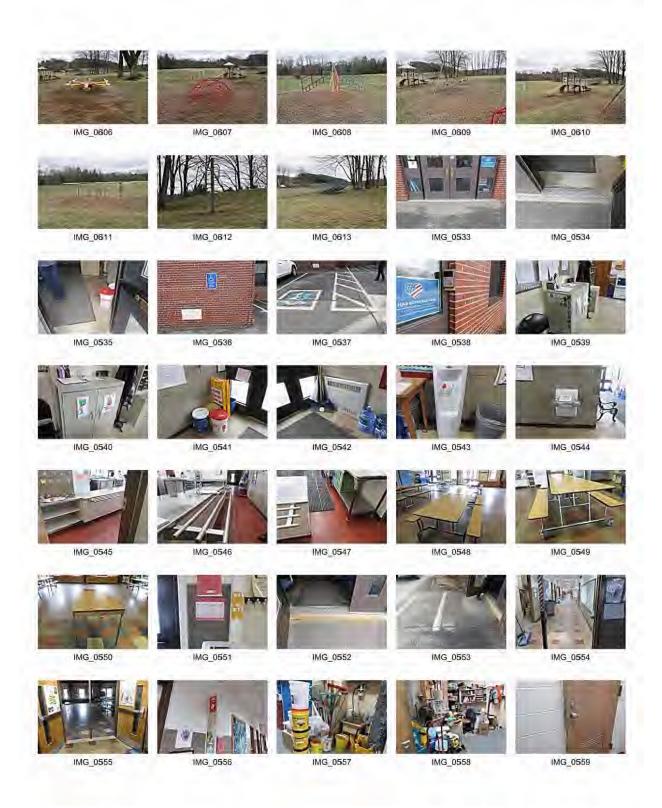
		Town
	Questions	Website
1)	Is there a policy that the public entity's webpages will be accessible,	
	that is, in compliance with the W3C Web Content Accessibility	N
	Guidelines (WCAG) 2.0 or Section 508 Standards?	
2)	Are the staff and contractors who are responsible for webpage and	Υ
	content development aware of the policy?	Y
3)		
	Are the staff and contractors who are responsible for webpage and	Υ*
	content development knowledgeable about these standards?	
4)	Has the website been tested for compliance with either of these	N
	standards?	IN
5)		
	If yes, have people with disabilities who use screen reading software	
	and other assistive technology participated in the evaluation?	
6)		Υ
	Is there a plan for making the existing web content accessible?	Ť
7)	Is there a pln for making future web content accessible?	N

^{*}The website developer is knowledgeable of the standards; town staff are not.

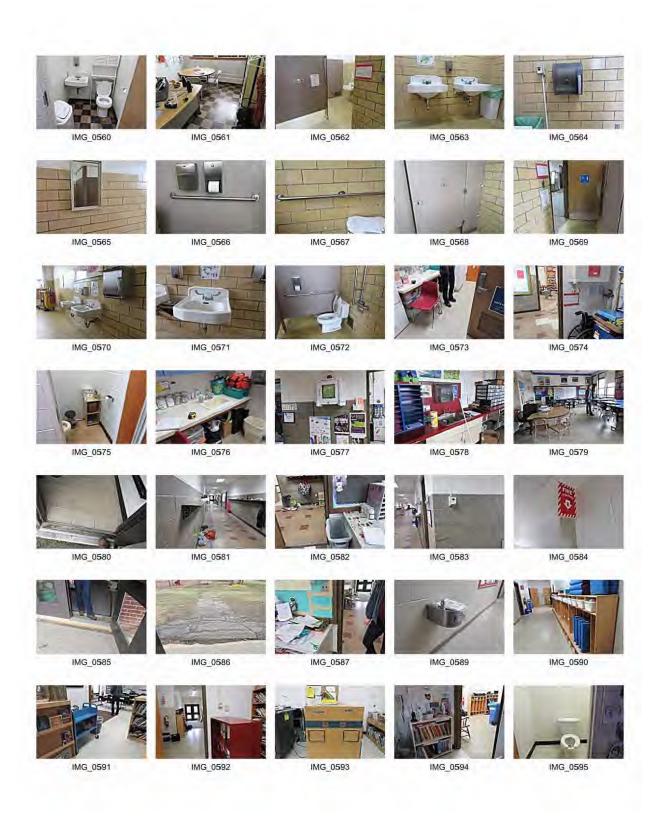
Appendix B

Photographs documenting issues found in the Transition Plan

Gill Elementary School (48 Boyle Road)

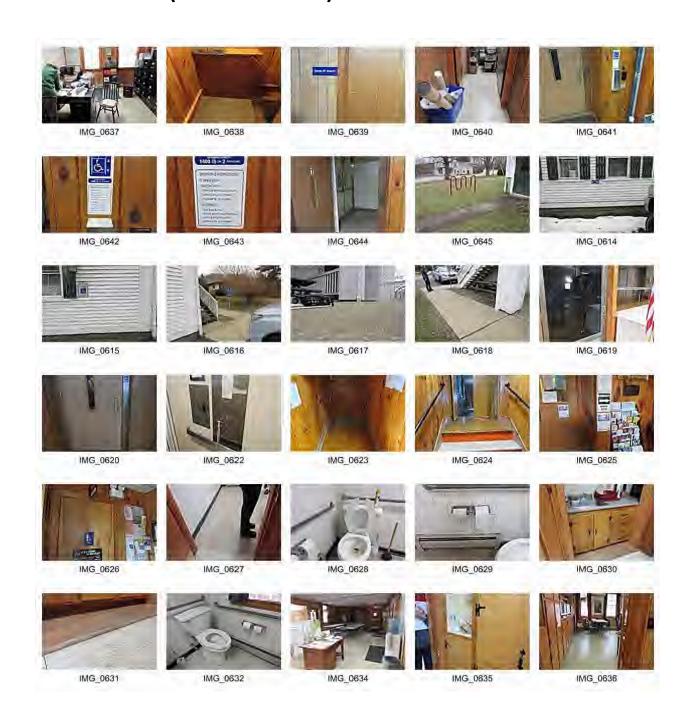


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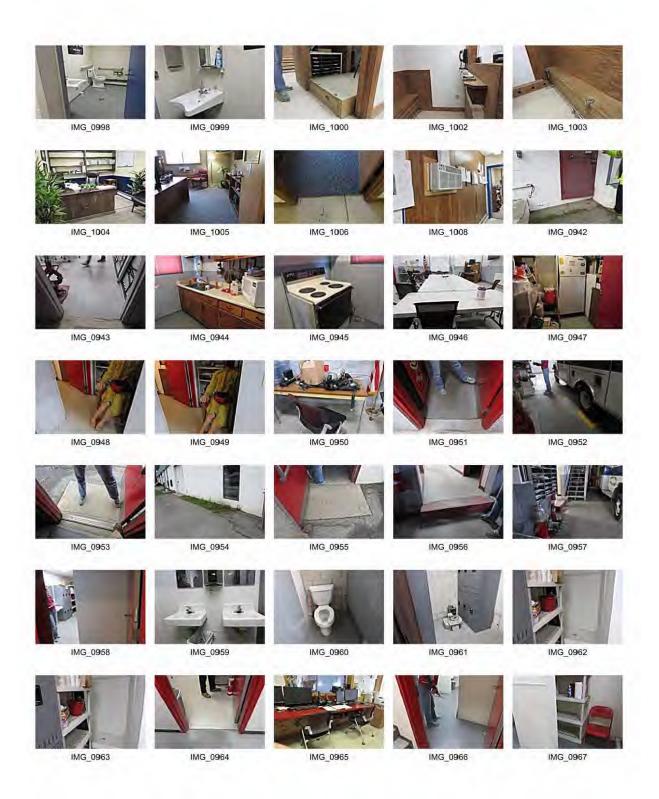




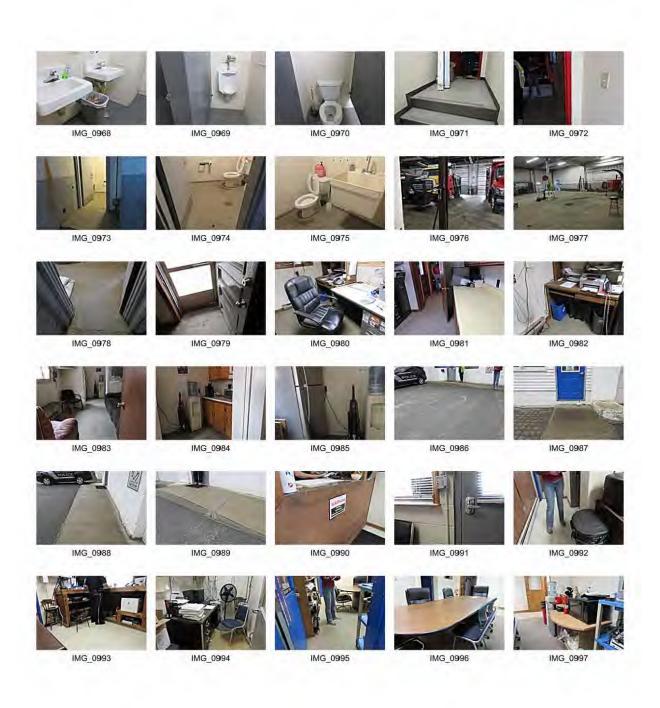
Gill Town Hall (325 Main Road)



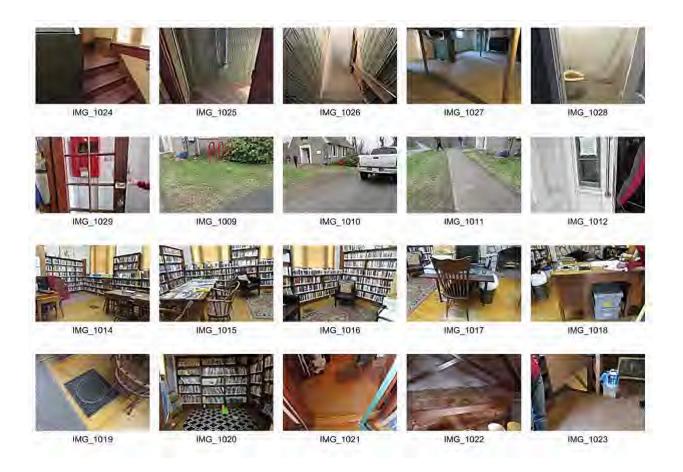
Gill Public Safety Complex (196 Main Road)



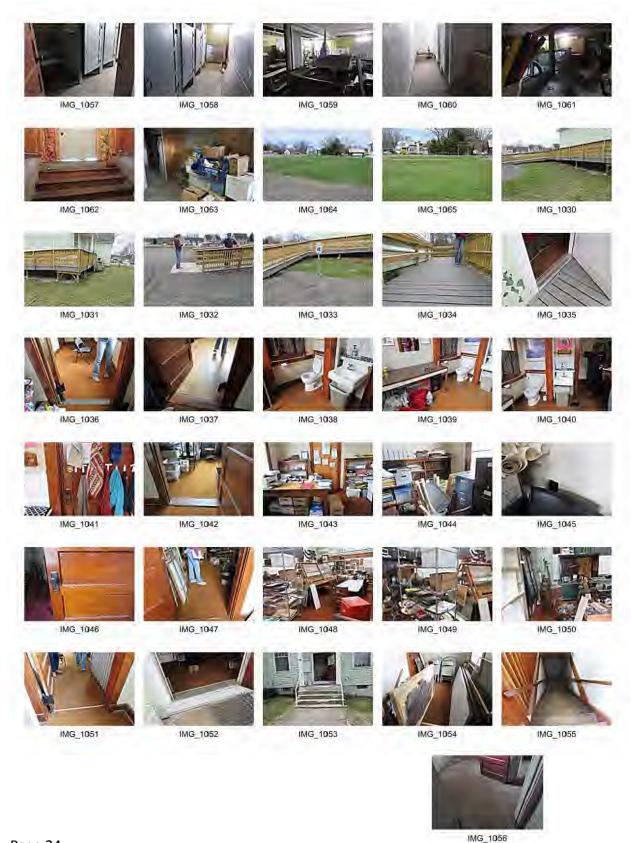
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Slate Memorial Library (360 Main Road)



Riverside Municipal Building (54 French King Highway)



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Blake Town Forest (Hoe Shop Road)

