

A Strategic Approach to Resource Management Planning: The DCR Statewide Survey

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Massachusetts Department of Conservation and Recreation
Bureau of Planning and Resource Protection
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Executive Summary

Resource Management Plans (RMPs) provide a guide to the short and long-term management of DCR reservations, parks and forests. Although a standard format and set of contents exist for RMPs, the number and sequence of RMPs to be prepared had not been identified.

This Statewide Survey (Survey) continues the ongoing refinement of RMPs and the resource management planning process. The goal of this Survey was to develop a resource that would lead to the more efficient production of RMPs. The following objectives were identified to achieve this goal:

1. Group DCR properties into planning units;
2. Establish a data resource to facilitate the preparation of future RMPs;
3. Provide a “road map” to future planning efforts by producing a prioritized sequence of RMPs; and
4. Identify data gaps that hinder the preparation of RMPs.

Planning units were identified in consultation with DCR field staff. Three hundred and eighty-five properties, including both fee-owned properties and properties on which the DCR holds a deed restriction, were identified using GIS. These properties were grouped into 86 planning units, representing 80 RMPs; 52 for DSPR properties and 28 for DUPR properties.

A variety of digital data was collected and synthesized, and presented in tabular format for every district. District summaries include information on the physical and political contexts of each planning unit, and information on that unit’s water resources, forest resources, threatened and endangered species and infrastructure. Data are also presented in tabular format at the regional and statewide scales. These summary tables are a practical reference in the absence of an RMP, and data contained in these tables will inform the preparation of future RMPs.

A prioritized sequence of future RMPs was developed. Prioritization was based on four metrics; natural resources, cultural resources, recreational activities, and operation and management considerations. These metrics and their associated variables are presented in the table below.

Metric	Variable
Natural Resources	% Area of Critical Environmental Concern % Priority Habitat % Estimated Habitat % Regulatory buffer Vernal pool density
Cultural Resources	Value of resource Threat to the integrity of resource Amount of knowledge of resource
Recreational Activities	# Recreational activities
Operation and Management Considerations	Obligations to remediate known environmental hazards Funding for implementation Visitation – scale of attraction Management challenges Capital improvements Previous plans Environmental justice Land acquisition target areas

The first three metrics were selected because they reflect the DCR’s mission “to protect, promote, and enhance our common wealth of natural, recreational, and cultural resources.” The fourth was selected because it reflects a variety of factors that influence both the immediate and long-term operation and management of parks.

Prioritized lists of RMPs were developed for each metric individually; these lists were then used to generate an overall prioritized sequence. Once prioritized, RMPs were sorted into 10 tiers. This tiered approach was used to reflect uncertainty associated with some data used for prioritization, and also to provide flexibility in scheduling the sequence of RMPs.

Although the Survey was conducted specifically for resource management planning purposes, some data developed during the Survey have broader application. Development of the cultural resources metric involved a complete inventory of the quantity and quality of data on file with the Office of Cultural Resources (OCR). This process provided OCR staff with a current, comprehensive “snapshot” of their knowledge base, and this information is being used to help guide OCR activities. An inventory of previous planning documents, one of the operation and management considerations variables, is also applicable beyond resource management planning. A dataset containing information on nearly 2,000 previous planning documents has been posted on the DCR intranet, and is available for a variety of uses.

The goal of this Survey, developing a resource that would lead to the more efficient RMPs, has been achieved. This Survey presents a logical, data-driven sequence to guide the DCR’s future resource management planning activities. In addition, information generated or synthesized during the prioritization process will inform future RMPs. This report and its associated data serve as the starting point for all future RMPs, and will greatly facilitate their preparation.

Chapter 1. Introduction

Resource Management Plans (RMPs) consider the past, present and future of a forest, park or reservation. They include an inventory and assessment of environmental, cultural and recreational resources; identify unique characteristics and values; and develop clear management goals and objectives. RMPs provide a guide to the short and long-term management of properties under the stewardship of the Department of Conservation and Recreation (DCR). They are intended to be “living” documents for setting priorities, enabling the Department to adapt to changing fiscal, social and environmental conditions. RMPs provide the foundation for capital and operational budgeting and resource allocation, and enhancing communication and cooperation with park visitors and the surrounding communities to ensure transparency in the DCR’s stewardship efforts.

The Department is responsible for the preparation of RMPs pursuant to Massachusetts General Law Chapter 21, Section 2F, which includes the following directive:

“The Commissioner of Conservation and Recreation shall submit management plans to the Stewardship Council for the Council’s adoption with respect to all reservations, parks and forests under the management of the Department....”

“Management plans shall include guidelines for the operation and land stewardship of the aforementioned reservations, parks, and forests, shall provide for the protection and stewardship of natural and cultural resources, and ensure consistency between recreation, resource protection and sustainable forest management.”

RMPs and the resource management planning process have changed over time, and the following documents reflect these changes:

- The National Monument to the Forefathers and Chestnut Hill Reservation RMPs were both prepared by outside consultants on behalf of the DCR, with oversight and support from DCR staff.
- Ecoregion and district level forestry RMPs for the western and central portions of the state are currently being prepared by the Department’s Bureau of Forestry and Fire Control. The Bureau will continue with districts in the southeast and northeast as part of the DCR’s effort to “green” certify its forest management activities and products.
- The Mount Watatic Reservation RMP is unique in that it represents the interests of six partners who jointly acquired and manage the property.
- The Stony Brook Reservation RMP was the first to use the recently developed standard format and guidelines for the preparation of RMPs.

These activities reflect a move toward standardized, more easily prepared and timelier plans that “ensure consistency” among recreational activities, natural and cultural resources protection and sustainable forest management.

This Statewide Survey (Survey) continues the ongoing refinement of RMPs and the resource management planning process. The goal of the Survey was to develop a resource that would lead to the more efficient production of RMPs. The following objectives were identified to achieve this goal:

1. Group DCR properties into planning units in order to determine the number of RMPs needed to cover “all reservations, parks, and forests.”
2. Establish an accessible data resource that will facilitate the preparation of RMPs by collecting and synthesizing readily available digital data, with the intention of shortening the amount of time needed to prepare an RMP.
3. Provide a “roadmap” to future planning efforts by producing a sequence of RMPs based on a systematic assessment of resource values and operation and management considerations.
4. Identify data gaps that might hinder efforts to prepare RMPs.

This Survey is based on the best available data, existing and new, that are applicable to all DCR properties statewide. Existing data are primarily spatial and objective. New data are not spatial, and include both objective and subjective information. The latter is derived from the expert opinions of DCR staff. Although such information is useful for prioritizing future RMPs, and has been applied to that end, it should not be used for other purposes (e.g., capital planning).

This Survey is organized as follows:

- **Chapter 2:** Describes the concept of planning units and identifies 86 planning units.
- **Chapter 3:** Presents and summarizes readily available digital data by district, region and as a statewide summary. The associated data tables include information that serves as the foundation for RMPs. A prioritized list of RMPs, based on natural resources, is included.
- **Chapter 4:** Describes the assessment of the cultural resources of every DCR property via a questionnaire, and associated findings. A prioritized list of RMPs, based on cultural resources, is included.
- **Chapter 5:** Describes the assessment of recreational activities via surveys of DCR field staff. A prioritized list of RMPs, based on recreational activities, is included.
- **Chapter 6:** Describes the assessment of operation and management considerations, as identified by the DCR's district managers, regional directors and division directors. Includes a prioritization of RMPs based on operation and management considerations.
- **Chapter 7:** Prioritizes the sequence of RMPs on the basis of natural resources, recreational activities, cultural resources and operation and management considerations. Guidance is provided on applying this sequence to the preparation of future RMPs.
- **Chapter 8:** Identifies issues and challenges associated with assembling this Survey, and future opportunities for the Resource Management Planning Program.
- **Appendices**

Chapter 2. Identification of Planning Units

Resource Management Plans are organized by planning unit. Typically, a planning unit is a group of DCR properties that share a logical relationship, usually a common administrative structure or close geographic proximity. Rarely, a planning unit includes just one property. Organizing RMPs by planning unit, rather than by property, minimizes the number of plans to be written.

Planning units do not cross district boundaries. When a potential planning unit included properties from more than one district, it was divided into multiple related planning units. For example, the Neponset River RMP will include two planning units: Neponset River A, which features Neponset River properties in the South Region, West District; and Neponset River B, which features Neponset River properties in the Harbor Region, Shore District.

Planning units, *in the context of this document*, do not include parkways, rinks, pools or fire towers. However, these features are included in this Survey's regional and statewide summary tables (Chapter 3). Parkway internal to a DCR reservation, rinks, pools and fire towers *will be included* in the applicable RMP and assessed as a component of the planning unit's management responsibilities. The recently adopted Stony Brook Reservation RMP, which includes several historic parkways, provides an example of this approach.

Planning units also do not include DCR's rail corridors. The variety and geographic distribution of the rail corridors requires a unique approach to planning. Common management objectives and maintenance standards, in addition to the greater vision of a statewide network of interconnected long-distance trails, lends the rail corridors to being planned for in a single, statewide document. Alternatively, and depending on the development status of an individual rail corridor, resource management planning could be covered in an RMP for the applicable planning unit, e.g. the Cape Cod Rail Trail within the Nickerson Planning Unit. In addition, resource management planning considerations for rail corridors that

are in the design or construction phase could potentially be covered under associated consultant services.

Finally, planning units were not identified for golf courses, as there is no statutory requirement to prepare RMPs for these facilities. However, some information on DCR golf courses will be included in RMPs. Information on the Ponkapoag Golf course, as it relates to the Blue Hills Planning Unit, will be included in the Blue Hills RMP. Similarly, information on the Leo J. Martin Golf Course, as it relates to the Upper Basin Planning Unit, will be included in the Upper Basin RMP.

The Identification Process. Planning units were identified in association with DCR field staff. In the winter of 2008, draft maps, displaying the current inventory of DCR properties, were created for each district. Between mid-February and mid-March, RMP Program staff met with all DCR district managers, and often other district personnel, to identify planning units. District managers were provided the draft map for their district and a written set of guidelines. These guidelines, similar to those presented below, were used to clarify the concept of planning units and to help direct their identification.

Planning Unit Guidelines. The following guidelines are intended as a starting point for identifying planning units. A planning unit is a property or group of properties included in a single RMP.

- Planning units include both properties owned in fee by the DCR and properties on which the DCR holds a deed restriction.
- Planning units include parkways if they occur within a park or reservation.
- Planning units include rinks and pools if they occur within a park, forest or reservation.

- Planning units should consider existing management structures that are smaller than the district level.
 - *For example, a group of properties managed by a lead supervisor and associated staff.*
- Planning units should consider the proximity of properties to one another.
 - *For example, properties close to one another, but distant from other properties, likely belong to the same planning unit.*
- Planning units should consider linear features.
 - *For example, properties along rivers, trails, or some other linear corridor may belong to the same planning unit.*
- Planning units may consider links created by trails, open space, etc., on lands not owned by the DCR.

Applying the Planning Unit Guidelines. The above guidelines are applicable to identifying planning units in every Division of State Parks and Recreation (DSPR) and Division of Urban Parks and Recreation (DUPR) district. To identify the planning units in a district, follow these steps.

1. Identify those properties that share a common management structure. *For example, a group of properties covered by a lead supervisor and associated staff.*
2. Identify groups of related properties located along a river, rail trail, or some other linear feature. *For example, the Connecticut River Greenway State Park and the river reservations.*
3. Identify the district's flagship property. This is the largest, most significant or staffed properties in a district.
4. Identify smaller, less significant or un-staffed properties associated with each flagship property. These are referred to as satellite properties.

5. Identify any remaining properties not in a planning unit, and assign them to the most appropriate planning unit.

After meetings were completed, district maps were modified to display planning units as identified by the district managers. In some instances, a second meeting was held with district managers to resolve questions about properties within planning units or locations of district boundaries.

Although district meetings were convened specifically to identify planning units, they also impacted DCR administrative boundaries. As a result of these meetings and the iterative identification of planning units, needed adjustments to some district and region boundaries were identified. These adjustments were reviewed and approved by DSPR and DUPR senior staff, and corresponding changes made to the GIS boundary data.

Planning Units. A total of 86 planning units, representing 80 RMPs, were identified. Fifty-four planning units, representing 52 RMPs, are located within the DSPR. Thirty-two planning units, representing 28 RMPs, are located within the DUPR. A map of the 86 planning units is included on the following page. A list of properties, and the planning units in which they occur, is provided in Appendix I.

Planning units were delineated solely for the purpose of future resource management planning. Their identification is not intended to impose operational or capital distribution directives, and should not be applied in such a manner.

This page is reserved for the planning unit map.

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Chapter 3. Review and Synthesis of Existing Data

The first step in preparing an RMP is to gather existing data specific to properties in that plan. In addition to creating a foundation of natural and cultural resource, infrastructure, recreational activity and operation and management data, this process sheds light on the data gaps and additional data needs for an RMP.

In order to benefit future RMPs, one goal of this Survey was to collect and synthesize existing, statewide, readily available, digital data. In limiting the data sets to those with statewide coverage, we were able to make planning unit, district and region comparisons. By compiling readily available, digital data, we were able to quickly assemble the bulk of this chapter in a tabular format. These tables are a practical reference in the absence of an RMP, and data contained in these tables will inform the preparation of future RMPs.

Sources and Quality of Data

Spatial Data. A majority of the existing data are spatial and maintained by the Massachusetts Office of Geographic and Environmental Information (MassGIS), the Bureau of Planning and Resource Protection's (BPRP) GIS Program and the Bureau of Forestry and Fire Control's (BFFC) GIS Program. Details on the processing of these spatial data are presented in Appendix II. A summary of caveats applicable to the existing spatial data follows.

Open Space. On January 31, 2008 a "snapshot" of the MassGIS Open Space datalayer was taken in order to identify DCR owned, both fee and deed restriction, and managed property. Several properties not included in this datalayer, but in a queue to be added, were also included in this Survey. These data were in draft form, as developed by the BPRP GIS Program, and acquired by the DCR up to and including fiscal year 2007.

Due to the time constraints associated with this Survey, property names, boundaries and acreages could not be verified. Therefore, all property attributes are approximate.

Lakes, Ponds and Reservoirs. Miscalculations will be present where DCR property and lake, pond or reservoir boundaries overlap or are otherwise not concurrent.

Rivers and Streams. Due to the linear nature of this data set, miscalculations will be present where DCR property shares a boundary with a wide river or stream (e.g. Connecticut River).

Wetlands. Several hydrographic categories were combined to create a general wetlands category; they are marsh, wooded marsh and salt marsh.

Regulatory Buffer. This variable is the sum of the buffers, as defined in state legislation, surrounding wetlands, rivers and streams within each planning unit.

In order to estimate the regulatory buffer and not exceed the regulations set forth by the Rivers Protection Act, rivers, lakes and ponds (derived from the USGS hydrography datalayer's open water categorization) were buffered at 100 feet rather than 200 feet. Perennial streams, a separate categorization within the datalayer, were buffered at 200 feet.

Coastline. Inland segments of the coastline congruent with the Charles River, Mystic River, Neponset River and Merrimack River were removed from the total mileage.

Roads and Trails. Only roads and trails data collected as of October 8, 2008 were included in the analysis. The level of completeness varies district to district; some datalayers were reviewed and corrected in detail, others contained the raw GPS data.

Certified and Potential Vernal Pools. The potential for overlap between both categories of vernal pools and omission within each category of vernal pools exists. Note: the vernal pool density variable is the sum of both categories of vernal pools per acre.

Dams. The attributes used for analysis are only as accurate as the Office of Dam Safety database. Dams located in the Quabbin-Ware and Wachusett-Sudbury Regions (i.e., those on Division of Water Supply Protection (DWSP) lands) were removed from this Survey.

Fire Towers. The fire tower datalayer was not reviewed by the Bureau of Forestry and Fire Control. A DCR GIS specialist researched the datalayer and where appropriate, spatially corrected each point.

Boat Clubs. The boat club datalayer reflects only those clubs holding a current (2008) lease with the DCR. A DCR GIS specialist researched the datalayer and spatially corrected each point to rooftop accuracy.

Skating Rinks and Swimming Pools. The spatial accuracy and up-to-date operational status of the buildings contained in the skating rink and swimming pool datalayer varies.

Databases. Remaining data were obtained from Agency or Commonwealth maintained databases. A summary of the caveats applicable to those databases follows:

FAMIS. The number of boat ramps, parking lots and recreational facilities (athletic fields, beaches, picnic sites and playgrounds) associated with each property was determined with FAMIS – Facility Administration and Maintenance Information System – a database maintained by the DCR.

Due to the time constraints associated with this Survey, existing FAMIS records could not be verified, partial FAMIS records could not be completed and missing FAMIS records could not be obtained.

CAMIS. The number of structures associated with each property was determined with a datalayer of CAMIS – Capital Asset Management Information System – structures, as created by MassGIS. The CAMIS database is maintained by the Division of Capital Asset Management (DCAM).

Due to the time constraints associated with this Survey, the records within the CAMIS datalayer could not be verified, including spatial

accuracy, partial records could not be completed and missing records could not be obtained.

Friends Groups. Only friends groups provided by the DCR Office of External Affairs and Partnerships as of August 21, 2008 were included in this Survey. Groups whose interest crossed district lines, e.g. the Neponset River Watershed Association, were counted once in each applicable district.

Staffing. The number of year-round and seasonal positions for each district was determined with the help of the DCR Human Resources Department and division staff.

The following adjustments were made by RMP Program staff: 1) Seasonal pool staff members were excluded from the totals. 2) Year-round positions identified as division-wide within the DUPR were split equally between the districts. 3) Year-round positions identified as region-wide within the DUPR and DSPR were split equally between the districts in that region. 4) Seasonal positions assigned to regional headquarters within the DSPR were split equally between the districts in that region.

The seasonal positions assigned to the Harbor Region Headquarters within the DUPR were allocated solely to the Shore District, due to the Headquarters' proximity to Day Boulevard and Marine Park. It is assumed that the seasonal staff members use this location to maintain the DCR shoreline properties in the area.

Interpretive Programs and Attendance. This information was provided by the DCR Bureau of Ranger Services. West Region data are from 2007. Harbor Region, North Region and Connecticut Valley District data were not available.

Rail Corridors. This information was provided by the DCR Greenways and Trails Program. It pertains to long-distance trails located in rail corridors that are owned and managed by the DCR.

Summary Tables

The following pages contain the results of this Survey's existing data gathering effort. *All data are from calendar year 2008, unless otherwise noted. Where data do not exist, were unavailable (not ready in time for this document), or equal to zero, a "-" is present.*

The tables are organized alphabetically by district, and then region. *District tables provide information on planning units, and serve as the precursor to RMPs for those units.* A statewide summary table is presented last. Please refer to Appendix I for a list of planning units and properties, organized by region and district.

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District Summary Tables

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Atlantic District

General Information							
<i>Planning Unit</i>	<i>Acres</i>	<i>Ecoregion</i>	<i>Drainage Basin</i>	<i>Town</i>	<i>Senate Legislative District</i>	<i>House Legislative District</i>	<i>ACEC</i>
Bradley Palmer	4755	Gulf of Maine Coastal Lowland, Gulf of Maine Coastal Plain	Ipswich, Merrimack, Parker	Boxford, Georgetown, Groveland, Hamilton, Ipswich, Rowley, Topsfield	1st Essex and Middlesex; 2nd Essex	13th Essex, 18th Essex, 2nd Essex, 4th Essex	-
Halibut Point	64	Gulf of Maine Coastal Lowland	North Coastal	Gloucester, Rockport	1st Essex and Middlesex	5th Essex	-
Harold Parker	4553	Gulf of Maine Coastal Plain	Ipswich, Shawsheen	Andover, Boxford, Middleton, North Andover, North Reading	1st Essex; 1st Essex and Middlesex; 2nd Essex and Middlesex	14th Essex, 17th Essex, 18th Essex, 20th Middlesex, 4th Essex	-
Lawrence Heritage	88	Gulf of Maine Coastal Plain	Merrimack	Lawrence, Methuen	1st Essex; 2nd Essex and Middlesex	15th Essex, 16th Essex, 17th Essex	-
Maudslay	561	Gulf of Maine Coastal Lowland	Merrimack	Merrimac, Newburyport, West Newbury	1st Essex; 1st Essex and Middlesex	1st Essex, 2nd Essex	-
Salisbury Beach	1067	Gulf of Maine Coastal Lowland	Ipswich, Merrimack, North Coastal, Parker	Essex, Ipswich, Newburyport, Rowley, Salisbury	1st Essex; 1st Essex and Middlesex	1st Essex, 2nd Essex, 4th Essex, 5th Essex	Great Marsh

Water Resources											
<i>Planning Unit</i>	<i>Lake, Pond and Reservoir, ac</i>	<i>Lake, Pond and Reservoir, %</i>	<i>Wetland, ac</i>	<i>Wetland, %</i>	<i>River and Stream, mi</i>	<i>Regulatory Buffer, ac</i>	<i>Regulatory Buffer, %</i>	<i>Coastline, mi</i>	<i>Certified Vernal Pool, #</i>	<i>Potential Vernal Pool, #</i>	<i>Vernal Pool Density, #/ac</i>
Bradley Palmer	56.43	1.2	1070.58	22.5	22.6345	1477.42	31.1	-	24	60	0.0177
Halibut Point	4.06	6.4	0.20	0.3	-	8.64	13.6	0.9926	-	3	0.0471
Harold Parker	200.30	4.4	863.24	19.0	10.8977	1220.19	26.8	-	105	159	0.0580
Lawrence Heritage	0.03	0.0	10.33	11.8	0.0209	32.25	36.7	-	-	1	0.0114
Maudslay	5.41	1.0	30.00	5.4	0.9469	76.24	13.6	-	-	3	0.0054
Salisbury Beach	10.64	1.0	303.64	28.5	9.0008	379.39	35.5	16.6754	-	2	0.0019

Atlantic District, Continued

Forest Resources					
<i>Planning Unit</i>	<i>Forest Reserve, ac</i>	<i>Forest Reserve, %</i>	<i>Forest Cover, ac</i>	<i>Forest Cover, %</i>	<i>Wildland, ac</i>
Bradley Palmer	-	-	4308.61	90.6	-
Halibut Point	-	-	33.20	52.2	-
Harold Parker	-	-	4217.05	92.6	-
Lawrence Heritage	-	-	41.06	46.7	-
Maudslay	-	-	371.93	66.3	-
Salisbury Beach	-	-	220.51	20.7	12.52

Threatened and Endangered Species								
<i>Planning Unit</i>	<i>Priority Habitat, ac</i>	<i>Priority Habitat, %</i>	<i>Estimated Habitat, ac</i>	<i>Estimated Habitat, %</i>	<i>BioMap Core Habitat, ac</i>	<i>BioMap Core Habitat, %</i>	<i>Living Waters Core Habitat, ac</i>	<i>Living Waters Core Habitat, %</i>
Bradley Palmer	1486.48	31.3	1486.41	31.3	3910.84	82.3	9.31	0.2
Halibut Point	-	-	-	-	14.05	22.1	-	-
Harold Parker	2187.21	48.0	2187.21	48.0	4259.03	93.5	-	-
Lawrence Heritage	44.43	50.5	44.43	50.5	-	-	-	-
Maudslay	124.80	22.3	108.27	19.3	55.50	9.9	9.89	1.8
Salisbury Beach	564.33	52.9	553.33	51.8	443.31	41.5	0.24	0.0

Infrastructure														
<i>Planning Unit</i>	<i>Road and Trail, mi</i>	<i>Road and Trail Density, mi/ac</i>	<i>Dam #, Significant Hazard</i>	<i>Dam #, High Hazard</i>	<i>Dam #, Low Hazard</i>	<i>Dam #, Non-Jurisdictional</i>	<i>Dam, Total #</i>	<i>Athletic Field, #</i>	<i>Beach, #</i>	<i>Boat Ramp, #</i>	<i>Parking Lot, #</i>	<i>Picnic Area, #</i>	<i>Play-ground, #</i>	<i>Structure, #</i>
Bradley Palmer	36.1057	0.0076	-	-	-	3	3	1	1	1	14	-	1	31
Halibut Point	-	-	-	-	-	-	-	1	2	2	2	2	-	7
Harold Parker	113.1111	0.0248	3	-	5	2	10	-	1	-	-	-	-	17
Lawrence Heritage	-	-	-	-	-	-	-	3	-	2	5	1	1	7
Maudslay	-	-	-	-	-	-	-	-	-	-	2	6	-	32
Salisbury Beach	-	-	-	-	-	-	-	-	2	2	5	2	1	18

Blackstone District

General Information							
<i>Planning Unit</i>	<i>Acres</i>	<i>Ecoregion</i>	<i>Drainage Basin</i>	<i>Town</i>	<i>Senate Legislative District</i>	<i>House Legislative District</i>	<i>ACEC</i>
Blackstone Heritage	2866	Southeast New England Coastal Hills and Plain	Blackstone	Blackstone, Grafton, Millville, Northbridge, Sutton, Uxbridge	2nd Worcester; Worcester and Norfolk	18th Worcester, 9th Worcester	Miscoe, Warren and Whitehall Watersheds
Douglas	5056	Southeast New England Coastal Hills and Plain	Blackstone, French, Quinebaug	Douglas, Oxford	Worcester and Norfolk	8th Worcester	-
Quinsigamond	1033	Gulf of Maine Coastal Plain	Blackstone, Sudbury-Assabet-Concord	Northborough, Shrewsbury, Westborough, Worcester	1st Worcester; Middlesex and Worcester; 2nd Worcester	11th Worcester, 12th Worcester, 14th Worcester, 15th Worcester	-
Rutland	3402	Lower Worcester Plateau	Chicopee, French	Barre, East Brookfield, Leicester, North Brookfield, Oakham, Paxton, Rutland, Spencer	1st Worcester; 2nd Worcester; Worcester, Hampden, Hampshire, Franklin	13th Worcester, 17th Worcester, 1st Worcester, 5th Worcester, 6th Worcester	-
Wells	5399	Lower Worcester Plateau	Chicopee, Quinebaug	Brimfield, Holland, Monson, Sturbridge, Wales, Warren, West Brookfield	Worcester, Hampden, Hampshire, Franklin	1st Hampden, 2nd Hampden, 5th Worcester	-

Water Resources											
<i>Planning Unit</i>	<i>Lake, Pond and Reservoir, ac</i>	<i>Lake, Pond and Reservoir, %</i>	<i>Wetland, ac</i>	<i>Wetland, %</i>	<i>River and Stream, mi</i>	<i>Regulatory Buffer, ac</i>	<i>Regulatory Buffer, %</i>	<i>Coastline, mi</i>	<i>Certified Vernal Pool, #</i>	<i>Potential Vernal Pool, #</i>	<i>Vernal Pool Density, #/ac</i>
Blackstone Heritage	7.13	0.2	289.62	10.1	12.3475	500.87	17.5	-	3	32	0.0122
Douglas	11.35	0.2	369.00	7.3	21.4272	1012.98	20.0	-	4	39	0.0085
Quinsigamond	237.20	23.0	368.52	35.7	8.3102	848.18	82.1	-	1	3	0.0039
Rutland	183.53	5.4	401.41	11.8	14.1381	890.37	26.2	-	3	28	0.0091
Wells	38.45	0.7	250.78	4.6	20.8435	890.74	16.5	-	23	39	0.0115

Blackstone District, Continued

Forest Resources					
<i>Planning Unit</i>	<i>Forest Reserve, ac</i>	<i>Forest Reserve, %</i>	<i>Forest Cover, ac</i>	<i>Forest Cover, %</i>	<i>Wildland, ac</i>
Blackstone Heritage	-	-	2328.57	81.3	-
Douglas	-	-	4880.91	96.5	48.76
Quinsigamond	-	-	344.07	33.3	-
Rutland	-	-	2825.43	83.1	-
Wells	-	-	5061.92	93.8	-

Threatened and Endangered Species								
<i>Planning Unit</i>	<i>Priority Habitat, ac</i>	<i>Priority Habitat, %</i>	<i>Estimated Habitat, ac</i>	<i>Estimated Habitat, %</i>	<i>BioMap Core Habitat, ac</i>	<i>BioMap Core Habitat, %</i>	<i>Living Waters Core Habitat, ac</i>	<i>Living Waters Core Habitat, %</i>
Blackstone Heritage	817.10	28.5	817.10	28.5	1593.37	55.6	0.10	0.0
Douglas	1690.88	33.4	1622.83	32.1	4801.21	95.0	0.62	0.0
Quinsigamond	241.70	23.4	232.43	22.5	163.84	15.9	-	-
Rutland	221.31	6.5	221.31	6.5	-	-	-	-
Wells	2020.84	37.4	1830.05	33.9	5273.13	97.7	-	-

Infrastructure														
<i>Planning Unit</i>	<i>Road and Trail, mi</i>	<i>Road and Trail Density, mi/ac</i>	<i>Dam #, Significant Hazard</i>	<i>Dam #, High Hazard</i>	<i>Dam #, Low Hazard</i>	<i>Dam #, Non-Jurisdictional</i>	<i>Dam, Total #</i>	<i>Athletic Field, #</i>	<i>Beach, #</i>	<i>Boat Ramp, #</i>	<i>Parking Lot, #</i>	<i>Picnic Area, #</i>	<i>Play-ground, #</i>	<i>Structure, #</i>
Blackstone Heritage	64.2397	0.0224	-	1	-	1	2	-	-	7	13	8	1	10
Douglas	53.5411	0.0106	-	-	1	-	1	1	1	3	3	-	-	11
Quinsigamond	-	-	1	3	-	-	4	2	2	-	-	-	-	6
Rutland	63.1021	0.0185	6	1	2	3	12	1	-	-	2	-	-	26
Wells	51.2182	0.0095	3	-	3	1	7	-	6	-	3	4	-	31

Blue Hills District

General Information							
<i>Planning Unit</i>	<i>Acres</i>	<i>Ecoregion</i>	<i>Drainage Basin</i>	<i>Town</i>	<i>Senate Legislative District</i>	<i>House Legislative District</i>	<i>ACEC</i>
Blue Hills	5899	Boston Basin, Gulf of Maine Coastal Plain	Boston Harbor	Braintree, Canton, Milton, Quincy, Randolph	Norfolk and Plymouth; Norfolk, Bristol, and Plymouth	14th Suffolk, 1st Norfolk, 5th Norfolk, 6th Norfolk, 7th Norfolk	Fowl Meadow and Ponkapoag Bog
Fowl Meadow	1421	Boston Basin, Gulf of Maine Coastal Plain	Boston Harbor	Boston, Canton, Dedham, Milton, Norwood, Westwood	Norfolk, Bristol, and Plymouth; Suffolk and Norfolk	11th Norfolk, 12th Norfolk, 14th Suffolk, 6th Norfolk, 7th Norfolk	Fowl Meadow and Ponkapoag Bog
Neponset River A	77	Boston Basin	Boston Harbor	Boston, Milton	1st Suffolk; Norfolk, Bristol, and Plymouth; Suffolk and Norfolk	12th Suffolk, 14th Suffolk, 6th Suffolk, 7th Norfolk	Fowl Meadow and Ponkapoag Bog
Quincy Quarries	127	Boston Basin	Boston Harbor	Quincy	Norfolk and Plymouth	1st Norfolk	-

Water Resources											
<i>Planning Unit</i>	<i>Lake, Pond and Reservoir, ac</i>	<i>Lake, Pond and Reservoir, %</i>	<i>Wetland, ac</i>	<i>Wetland, %</i>	<i>River and Stream, mi</i>	<i>Regulatory Buffer, ac</i>	<i>Regulatory Buffer, %</i>	<i>Coastline, mi</i>	<i>Certified Vernal Pool, #</i>	<i>Potential Vernal Pool, #</i>	<i>Vernal Pool Density, #/ac</i>
Blue Hills	82.89	1.4	658.54	11.2	17.2493	1146.63	19.4	-	25	34	0.0100
Fowl Meadow	32.71	2.3	1095.26	77.1	7.9513	878.17	61.8	-	-	47	0.0331
Neponset River A	-	-	8.14	10.5	1.6793	45.38	58.6	-	-	5	0.0645
Quincy Quarries	1.82	1.4	3.62	2.9	-	18.91	14.9	-	2	-	0.0158

Forest Resources					
<i>Planning Unit</i>	<i>Forest Reserve, ac</i>	<i>Forest Reserve, %</i>	<i>Forest Cover, ac</i>	<i>Forest Cover, %</i>	<i>Wildland, ac</i>
Blue Hills	-	-	4998.21	84.7	-
Fowl Meadow	-	-	567.68	40.0	-
Neponset River A	-	-	41.52	53.6	-
Quincy Quarries	-	-	80.28	63.4	-

Blue Hills District, Continued

Threatened and Endangered Species								
<i>Planning Unit</i>	<i>Priority Habitat, ac</i>	<i>Priority Habitat, %</i>	<i>Estimated Habitat, ac</i>	<i>Estimated Habitat, %</i>	<i>BioMap Core Habitat, ac</i>	<i>BioMap Core Habitat, %</i>	<i>Living Waters Core Habitat, ac</i>	<i>Living Waters Core Habitat, %</i>
Blue Hills	4881.70	82.8	4327.62	73.4	4962.44	84.1	-	-
Fowl Meadow	1347.82	94.9	1347.76	94.9	776.79	54.7	-	-
Neponset River A	0.32	0.4	0.32	0.4	-	-	-	-
Quincy Quarries	66.47	52.5	66.47	52.5	117.12	92.5	-	-

Infrastructure														
<i>Planning Unit</i>	<i>Road and Trail, mi</i>	<i>Road and Trail Density, mi/ac</i>	<i>Dam #, Significant Hazard</i>	<i>Dam #, High Hazard</i>	<i>Dam #, Low Hazard</i>	<i>Dam #, Non-Jurisdictional</i>	<i>Dam, Total #</i>	<i>Athletic Field, #</i>	<i>Beach, #</i>	<i>Boat Ramp, #</i>	<i>Parking Lot, #</i>	<i>Picnic Area, #</i>	<i>Play-ground, #</i>	<i>Structure, #</i>
Blue Hills	-	-	1	1	-	-	2	-	-	-	20	7	1	91
Fowl Meadow	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neponset River A	-	-	1	-	-	-	1	-	-	-	-	-	1	2
Quincy Quarries	-	-	-	-	-	-	-	-	-	-	-	-	-	2

Cape Cod District

General Information							
<i>Planning Unit</i>	<i>Acres</i>	<i>Ecoregion</i>	<i>Drainage Basin</i>	<i>Town</i>	<i>Senate Legislative District</i>	<i>House Legislative District</i>	<i>ACEC</i>
Islands	5673	Cape Cod Coastal Lowland and Islands	Islands	Edgartown, Nantucket, Oak Bluffs, Tisbury, West Tisbury	Cape and Islands	Barnstable, Dukes and Nantucket	-
Myles Standish	13184	Cape Cod Coastal Lowland and Islands	Buzzards Bay, South Coastal	Carver, Plymouth, Wareham	1st Plymouth and Bristol; Plymouth and Barnstable	12th Plymouth, 1st Plymouth, 2nd Plymouth	-
Nickerson	2653	Cape Cod Coastal Lowland and Islands	Cape Cod	Brewster, Dennis, Harwich, Orleans, Truro	Cape and Islands	1st Barnstable, 4th Barnstable	Inner Cape Cod Bay
Pilgrim	225	Cape Cod Coastal Lowland and Islands, Narragansett-Bristol Lowland and Islands	South Coastal, Taunton	Duxbury, Kingston, Plymouth	Plymouth and Barnstable; Plymouth and Norfolk	12th Plymouth, 1st Plymouth	-
Shawme Crowell	1624	Cape Cod Coastal Lowland and Islands	Cape Cod, South Coastal	Barnstable, Bourne, Plymouth, Sandwich	Cape and Islands; Plymouth and Barnstable	1st Plymouth, 2nd Barnstable, 2nd Plymouth, 5th Barnstable	Ellisville Harbor, Sandy Neck Barrier Beach System
Waquoit Bay	1305	Cape Cod Coastal Lowland and Islands	Cape Cod	Falmouth, Mashpee	Cape and Islands; Plymouth and Barnstable	3rd Barnstable, 5th Barnstable, Barnstable, Dukes and Nantucket	Waquoit Bay
Wompatuck	4136	Boston Basin, Gulf of Maine Coastal Plain, Narragansett-Bristol Lowland and Islands	Boston Harbor, South Coastal, Taunton	Abington, Brockton, Cohasset, Hingham, Norwell, Scituate	Norfolk and Plymouth; Plymouth and Norfolk; 2nd Plymouth and Bristol	10th Plymouth, 3rd Plymouth, 4th Plymouth, 5th Plymouth, 7th Plymouth	-

Cape Cod District, Continued

Water Resources											
<i>Planning Unit</i>	<i>Lake, Pond and Reservoir, ac</i>	<i>Lake, Pond and Reservoir, %</i>	<i>Wetland, ac</i>	<i>Wetland, %</i>	<i>River and Stream, mi</i>	<i>Regulatory Buffer, ac</i>	<i>Regulatory Buffer, %</i>	<i>Coastline, mi</i>	<i>Certified Vernal Pool, #</i>	<i>Potential Vernal Pool, #</i>	<i>Vernal Pool Density, #/ac</i>
Islands	0.90	0.0	21.74	0.4	0.0244	61.43	1.1	6.4322	-	1	0.0002
Myles Standish	393.68	3.0	85.67	0.6	4.2166	864.86	6.6	-	9	97	0.0080
Nickerson	325.59	12.3	361.95	13.6	6.3508	848.23	32.0	6.9046	1	9	0.0038
Pilgrim	5.80	2.6	3.75	1.7	-	19.54	8.7	0.7957	4	5	0.0400
Shawme Crowell	6.72	0.4	430.39	26.5	6.0599	446.15	27.5	10.2556	-	5	0.0031
Waquoit Bay	7.82	0.6	169.01	13.0	3.0075	328.51	25.2	13.2077	3	2	0.0038
Wompatuck	217.91	5.3	653.36	15.8	6.4285	857.61	20.7	-	4	48	0.0126

Forest Resources					
<i>Planning Unit</i>	<i>Forest Reserve, ac</i>	<i>Forest Reserve, %</i>	<i>Forest Cover, ac</i>	<i>Forest Cover, %</i>	<i>Wildland, ac</i>
Islands	-	-	3950.80	69.6	-
Myles Standish	-	-	11933.00	90.5	45.05
Nickerson	-	-	1816.98	68.5	-
Pilgrim	-	-	190.94	84.9	-
Shawme Crowell	-	-	918.12	56.5	-
Waquoit Bay	-	-	926.15	71.0	-
Wompatuck	-	-	3574.12	86.4	63.32

Cape Cod District, Continued

Threatened and Endangered Species								
<i>Planning Unit</i>	<i>Priority Habitat, ac</i>	<i>Priority Habitat, %</i>	<i>Estimated Habitat, ac</i>	<i>Estimated Habitat, %</i>	<i>BioMap Core Habitat, ac</i>	<i>BioMap Core Habitat, %</i>	<i>Living Waters Core Habitat, ac</i>	<i>Living Waters Core Habitat, %</i>
Islands	5118.90	90.2	4463.13	78.7	5557.72	98.0	-	-
Myles Standish	11351.87	86.1	1590.47	12.1	13164.48	99.9	132.31	1.0
Nickerson	2074.64	78.2	1959.90	73.9	2387.58	90.0	271.41	10.2
Pilgrim	174.92	77.8	174.92	77.8	167.21	74.4	-	-
Shawme Crowell	1144.61	70.5	1116.82	68.8	1251.19	77.0	-	-
Waquoit Bay	464.53	35.6	414.69	31.8	683.55	52.4	0.84	0.1
Wompatuck	1963.84	47.5	1963.84	47.5	4095.59	99.0	1.18	0.0

Infrastructure														
<i>Planning Unit</i>	<i>Road and Trail, mi</i>	<i>Road and Trail Density, mi/ac</i>	<i>Dam #, Significant Hazard</i>	<i>Dam #, High Hazard</i>	<i>Dam #, Low Hazard</i>	<i>Dam #, Non-Jurisdictional</i>	<i>Dam, Total #</i>	<i>Athletic Field, #</i>	<i>Beach, #</i>	<i>Boat Ramp, #</i>	<i>Parking Lot, #</i>	<i>Picnic Area, #</i>	<i>Play-ground, #</i>	<i>Structure, #</i>
Islands	-	-	-	-	-	-	-	-	2	-	15	-	-	6
Myles Standish	-	-	-	-	-	-	-	-	-	-	18	12	1	56
Nickerson	2.8380	0.0011	-	-	-	-	-	-	1	1	12	1	1	74
Pilgrim	4.4550	0.0198	-	-	-	-	-	-	-	-	-	-	-	12
Shawme Crowell	18.1627	0.0112	-	-	-	-	-	-	-	-	-	-	-	63
Waquoit Bay	20.7650	0.0159	-	-	-	-	-	-	-	-	-	-	-	6
Wompatuck	11.2733	0.0027	1	-	-	1	2	-	-	1	13	1	1	32

Central Berkshire District

General Information							
<i>Planning Unit</i>	<i>Acres</i>	<i>Ecoregion</i>	<i>Drainage Basin</i>	<i>Town</i>	<i>Senate Legislative District</i>	<i>House Legislative District</i>	<i>ACEC</i>
Appalachian Trail B	591	Berkshire-Vermont Upland	Housatonic, Westfield	Dalton, Hinsdale, Washington	Berkshire, Hampshire, and Franklin	2nd Berkshire	Hinsdale Flats Watershed
D.A.R.	9926	Berkshire-Vermont Upland, Hudson Highlands, Southern Vermont Piedmont	Connecticut, Deerfield, Housatonic, Hudson, Westfield	Ashfield, Chesterfield, Conway, Cummington, Goshen, Plainfield, Savoy, Williamsburg, Windsor, Worthington	Berkshire, Hampshire, and Franklin	1st Berkshire, 1st Franklin, 1st Hampshire, 2nd Berkshire	-
October Mountain	17086	Berkshire-Vermont Upland, Taconic Mountains	Farmington, Housatonic, Westfield	Becket, Lee, Lenox, Pittsfield, Washington	Berkshire, Hampshire, and Franklin	2nd Berkshire, 3rd Berkshire, 4th Berkshire	-
Pittsfield	17334	Berkshire-Vermont Upland, Taconic Mountains	Housatonic, Hudson, Westfield	Becket, Dalton, Hancock, Hinsdale, Lanesborough, Middlefield, Peru, Pittsfield, Richmond, Windsor, Worthington	Berkshire, Hampshire, and Franklin	1st Franklin, 2nd Berkshire, 3rd Berkshire, 4th Berkshire	Hinsdale Flats Watershed

Water Resources											
<i>Planning Unit</i>	<i>Lake, Pond and Reservoir, ac</i>	<i>Lake, Pond and Reservoir, %</i>	<i>Wetland, ac</i>	<i>Wetland, %</i>	<i>River and Stream, mi</i>	<i>Regulatory Buffer, ac</i>	<i>Regulatory Buffer, %</i>	<i>Coastline, mi</i>	<i>Certified Vernal Pool, #</i>	<i>Potential Vernal Pool, #</i>	<i>Vernal Pool Density, #/ac</i>
Appalachian Trail B	-	-	7.97	1.3	0.7680	41.77	7.1	-	-	-	-
D.A.R.	147.54	1.5	314.46	3.2	24.0605	1161.74	11.7	-	-	4	0.0004
October Mountain	415.20	2.4	1283.81	7.5	26.4639	2590.94	15.2	-	-	9	0.0005
Pittsfield	174.62	1.0	531.26	3.1	47.0121	1633.87	9.4	-	2	34	0.0021

Forest Resources					
<i>Planning Unit</i>	<i>Forest Reserve, ac</i>	<i>Forest Reserve, %</i>	<i>Forest Cover, ac</i>	<i>Forest Cover, %</i>	<i>Wildland, ac</i>
Appalachian Trail B	-	-	569.30	96.4	-
D.A.R.	2706.13	27.3	9462.27	95.3	707.84
October Mountain	1675.10	9.8	15972.62	93.5	-
Pittsfield	3676.68	21.2	16752.20	96.6	49.06

Central Berkshire District, Continued

Threatened and Endangered Species								
<i>Planning Unit</i>	<i>Priority Habitat, ac</i>	<i>Priority Habitat, %</i>	<i>Estimated Habitat, ac</i>	<i>Estimated Habitat, %</i>	<i>BioMap Core Habitat, ac</i>	<i>BioMap Core Habitat, %</i>	<i>Living Waters Core Habitat, ac</i>	<i>Living Waters Core Habitat, %</i>
Appalachian Trail B	17.90	3.0	-	-	13.63	2.3	-	-
D.A.R.	1213.89	12.2	1089.40	11.0	2404.28	24.2	71.34	0.7
October Mountain	826.14	4.8	768.86	4.5	4970.42	29.1	-	-
Pittsfield	395.23	2.3	339.08	2.0	9950.65	57.4	10.82	0.1

Infrastructure														
<i>Planning Unit</i>	<i>Road and Trail, mi</i>	<i>Road and Trail Density, mi/ac</i>	<i>Dam #, Significant Hazard</i>	<i>Dam #, High Hazard</i>	<i>Dam #, Low Hazard</i>	<i>Dam #, Non-Jurisdictional</i>	<i>Dam, Total #</i>	<i>Athletic Field, #</i>	<i>Beach, #</i>	<i>Boat Ramp, #</i>	<i>Parking Lot, #</i>	<i>Picnic Area, #</i>	<i>Play-ground, #</i>	<i>Structure, #</i>
Appalachian Trail B	14.6601	0.0248	-	-	-	-	-	-	-	-	-	-	-	2
D.A.R.	134.1692	0.0135	1	2	-	2	5	-	3	4	8	-	-	42
October Mountain	211.2832	0.0124	-	5	1	2	8	-	-	1	-	1	-	7
Pittsfield	123.9018	0.0071	-	1	-	1	2	-	1	1	11	2	-	18

Charles District

General Information							
<i>Planning Unit</i>	<i>Acres</i>	<i>Ecoregion</i>	<i>Drainage Basin</i>	<i>Town</i>	<i>Senate Legislative District</i>	<i>House Legislative District</i>	<i>ACEC</i>
Emerald Necklace B	8	Boston Basin	Charles	Boston	2nd Suffolk and Middlesex	8th Suffolk, 9th Suffolk	-
Lower Basin	520	Boston Basin	Boston Harbor, Charles	Boston, Cambridge, Newton, Somerville, Watertown	1st Middlesex and Norfolk; 1st Suffolk and Middlesex; Middlesex, Suffolk, and Essex; 2nd Middlesex; 2nd Suffolk; 2nd Suffolk and Middlesex	11th Middlesex, 18th Suffolk, 25th Middlesex, 26th Middlesex, 29th Middlesex, 2nd Suffolk, 34th Middlesex, 8th Suffolk, 9th Suffolk	-
Upper Basin B	46	Boston Basin	Charles	Newton, Waltham, Watertown	1st Middlesex and Norfolk; 2nd Suffolk and Middlesex	10th Middlesex, 11th Middlesex, 29th Middlesex	-

Water Resources											
<i>Planning Unit</i>	<i>Lake, Pond and Reservoir, ac</i>	<i>Lake, Pond and Reservoir, %</i>	<i>Wetland, ac</i>	<i>Wetland, %</i>	<i>River and Stream, mi</i>	<i>Regulatory Buffer, ac</i>	<i>Regulatory Buffer, %</i>	<i>Coastline, mi</i>	<i>Certified Vernal Pool, #</i>	<i>Potential Vernal Pool, #</i>	<i>Vernal Pool Density, #/ac</i>
Emerald Necklace B	1.20	14.6	-	-	-	5.65	68.9	-	-	-	-
Lower Basin	0.49	0.1	7.35	1.4	0.1986	209.84	40.4	-	-	-	-
Upper Basin B	-	-	7.34	15.8	0.2262	31.96	68.9	-	-	-	-

Forest Resources					
<i>Planning Unit</i>	<i>Forest Reserve, ac</i>	<i>Forest Reserve, %</i>	<i>Forest Cover, ac</i>	<i>Forest Cover, %</i>	<i>Wildland, ac</i>
Emerald Necklace B	-	-	-	-	-
Lower Basin	-	-	19.61	3.8	-
Upper Basin B	-	-	14.47	31.2	-

Charles District, Continued

Threatened and Endangered Species								
<i>Planning Unit</i>	<i>Priority Habitat, ac</i>	<i>Priority Habitat, %</i>	<i>Estimated Habitat, ac</i>	<i>Estimated Habitat, %</i>	<i>BioMap Core Habitat, ac</i>	<i>BioMap Core Habitat, %</i>	<i>Living Waters Core Habitat, ac</i>	<i>Living Waters Core Habitat, %</i>
Emerald Necklace B	-	-	-	-	-	-	-	-
Lower Basin	-	-	-	-	-	-	-	-
Upper Basin B	-	-	-	-	-	-	-	-

Infrastructure														
<i>Planning Unit</i>	<i>Road and Trail, mi</i>	<i>Road and Trail Density, mi/ac</i>	<i>Dam #, Significant Hazard</i>	<i>Dam #, High Hazard</i>	<i>Dam #, Low Hazard</i>	<i>Dam #, Non-Jurisdictional</i>	<i>Dam, Total #</i>	<i>Athletic Field, #</i>	<i>Beach, #</i>	<i>Boat Ramp, #</i>	<i>Parking Lot, #</i>	<i>Picnic Area, #</i>	<i>Play-ground, #</i>	<i>Structure, #</i>
Emerald Necklace B	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lower Basin	-	-	1	-	-	1	2	-	-	-	9	3	8	49
Upper Basin B	-	-	1	-	-	-	1	-	-	-	-	-	-	1

Coastal District

General Information							
<i>Planning Unit</i>	<i>Acres</i>	<i>Ecoregion</i>	<i>Drainage Basin</i>	<i>Town</i>	<i>Senate Legislative District</i>	<i>House Legislative District</i>	<i>ACEC</i>
Lynn Shores	97	Boston Basin	North Coastal	Lynn, Nahant, Swampscott	3d Essex and Middlesex	11th Essex, 8th Essex	-
Revere Beach	152	Boston Basin	Boston Harbor, North Coastal	Boston, Chelsea, Revere, Winthrop	1st Suffolk and Middlesex; Middlesex, Suffolk, and Essex	16th Suffolk, 19th Suffolk, 1st Suffolk, 2nd Suffolk	Rumney Marshes
Rumney Marsh A	1021	Boston Basin	Boston Harbor, North Coastal	Boston, Everett, Malden, Revere, Saugus, Winthrop	1st Suffolk and Middlesex; Middlesex and Essex; Middlesex, Suffolk, and Essex	16th Suffolk, 19th Suffolk, 1st Suffolk, 28th Middlesex, 33rd Middlesex, 9th Essex	Rumney Marshes

Water Resources											
<i>Planning Unit</i>	<i>Lake, Pond and Reservoir, ac</i>	<i>Lake, Pond and Reservoir, %</i>	<i>Wetland, ac</i>	<i>Wetland, %</i>	<i>River and Stream, mi</i>	<i>Regulatory Buffer, ac</i>	<i>Regulatory Buffer, %</i>	<i>Coastline, mi</i>	<i>Certified Vernal Pool, #</i>	<i>Potential Vernal Pool, #</i>	<i>Vernal Pool Density, #/ac</i>
Lynn Shores	-	-	-	-	-	-	-	5.1738	-	-	-
Revere Beach	-	-	0.99	0.7	-	0.58	0.4	6.6611	-	-	-
Rumney Marsh A	97.86	9.6	701.26	68.7	9.5453	845.00	82.7	16.8483	-	-	-

Forest Resources					
<i>Planning Unit</i>	<i>Forest Reserve, ac</i>	<i>Forest Reserve, %</i>	<i>Forest Cover, ac</i>	<i>Forest Cover, %</i>	<i>Wildland, ac</i>
Lynn Shores	-	-	-	-	-
Revere Beach	-	-	-	-	-
Rumney Marsh A	-	-	15.55	1.5	-

Coastal District, Continued

Threatened and Endangered Species								
<i>Planning Unit</i>	<i>Priority Habitat, ac</i>	<i>Priority Habitat, %</i>	<i>Estimated Habitat, ac</i>	<i>Estimated Habitat, %</i>	<i>BioMap Core Habitat, ac</i>	<i>BioMap Core Habitat, %</i>	<i>Living Waters Core Habitat, ac</i>	<i>Living Waters Core Habitat, %</i>
Lynn Shores	-	-	-	-	-	-	-	-
Revere Beach	-	-	-	-	-	-	-	-
Rumney Marsh A	104.40	10.2	104.40	10.2	-	-	-	-

Infrastructure														
<i>Planning Unit</i>	<i>Road and Trail, mi</i>	<i>Road and Trail Density, mi/ac</i>	<i>Dam #, Significant Hazard</i>	<i>Dam #, High Hazard</i>	<i>Dam #, Low Hazard</i>	<i>Dam #, Non-Juris-dictional</i>	<i>Dam, Total #</i>	<i>Athletic Field, #</i>	<i>Beach, #</i>	<i>Boat Ramp, #</i>	<i>Parking Lot, #</i>	<i>Picnic Area, #</i>	<i>Play-ground, #</i>	<i>Structure, #</i>
Lynn Shores	-	-	-	-	-	-	-	4	3	1	1	-	1	3
Revere Beach	-	-	-	-	-	-	-	5	2	-	1	1	1	18
Rumney Marsh A	-	-	-	-	-	-	-	-	-	-	-	-	-	1

Connecticut Valley District

General Information							
<i>Planning Unit</i>	<i>Acres</i>	<i>Ecoregion</i>	<i>Drainage Basin</i>	<i>Town</i>	<i>Senate Legislative District</i>	<i>House Legislative District</i>	<i>ACEC</i>
Chicopee	744	Connecticut River Valley, Lower Worcester Plateau	Chicopee, Connecticut	Belchertown, Chicopee, Ludlow, Palmer, Springfield, Wilbraham	1st Hampden and Hampshire; 2nd Hampden and Hampshire; Worcester, Hampden, Hampshire, Franklin	12th Hampden, 1st Hampden, 7th Hampden, 8th Hampden, 9th Hampden	-
CT River Greenway	8407	Connecticut River Valley, Hudson Highlands, Lower Worcester Plateau, Southern Vermont Piedmont	Chicopee, Connecticut, Deerfield, Millers	Amherst, Belchertown, Bernardston, Deerfield, Erving, Gill, Greenfield, Hadley, Hatfield, Leverett, Longmeadow, Montague, Northampton, Northfield, Pelham, Shutesbury, Sunderland, Whately	1st Hampden and Hampshire; Hampshire and Franklin	1st Franklin, 1st Hampshire, 2nd Berkshire, 2nd Franklin, 2nd Hampden, 2nd Hampshire, 3rd Hampshire	-
Holyoke Range	7026	Connecticut River Valley	Connecticut	Amherst, Belchertown, Easthampton, Granby, Hadley, Holyoke, South Hadley	1st Hampden and Hampshire; Hampshire and Franklin; 2nd Hampden and Hampshire	1st Franklin, 2nd Hampshire, 3rd Hampshire, 5th Hampden	-
Robinson	1088	Connecticut River Valley	Connecticut, Westfield	Agawam, Southampton, West Springfield, Westfield	Hampden; 2nd Hampden and Hampshire	1st Hampshire, 3rd Hampden, 4th Hampden, 6th Hampden	-

Water Resources											
<i>Planning Unit</i>	<i>Lake, Pond and Reservoir, ac</i>	<i>Lake, Pond and Reservoir, %</i>	<i>Wetland, ac</i>	<i>Wetland, %</i>	<i>River and Stream, mi</i>	<i>Regulatory Buffer, ac</i>	<i>Regulatory Buffer, %</i>	<i>Coastline, mi</i>	<i>Certified Vernal Pool, #</i>	<i>Potential Vernal Pool, #</i>	<i>Vernal Pool Density, #/ac</i>
Chicopee	27.82	3.7	122.99	16.5	3.4034	279.91	37.6	-	-	3	0.0040
CT River Greenway	40.37	0.5	221.23	2.6	17.8035	886.43	10.5	-	10	28	0.0045
Holyoke Range	32.40	0.5	186.03	2.6	14.6775	673.60	9.6	-	6	48	0.0077
Robinson	4.61	0.4	39.12	3.6	6.0257	330.62	30.4	-	11	2	0.0120

Connecticut Valley District, Continued

Forest Resources					
<i>Planning Unit</i>	<i>Forest Reserve, ac</i>	<i>Forest Reserve, %</i>	<i>Forest Cover, ac</i>	<i>Forest Cover, %</i>	<i>Wildland, ac</i>
Chicopee	-	-	635.12	85.4	-
CT River Greenway	-	-	7151.16	85.1	-
Holyoke Range	-	-	6563.43	93.4	71.85
Robinson	-	-	873.36	80.3	-

Threatened and Endangered Species								
<i>Planning Unit</i>	<i>Priority Habitat, ac</i>	<i>Priority Habitat, %</i>	<i>Estimated Habitat, ac</i>	<i>Estimated Habitat, %</i>	<i>BioMap Core Habitat, ac</i>	<i>BioMap Core Habitat, %</i>	<i>Living Waters Core Habitat, ac</i>	<i>Living Waters Core Habitat, %</i>
Chicopee	314.67	42.3	123.37	16.6	543.76	73.1	-	-
CT River Greenway	3039.75	36.2	2366.60	28.1	3456.19	41.1	18.26	0.2
Holyoke Range	5595.06	79.6	5010.82	71.3	6597.48	93.9	6.95	0.1
Robinson	481.60	44.3	450.87	41.5	30.25	2.8	67.20	6.2

Infrastructure														
<i>Planning Unit</i>	<i>Road and Trail, mi</i>	<i>Road and Trail Density, mi/ac</i>	<i>Dam #, Significant Hazard</i>	<i>Dam #, High Hazard</i>	<i>Dam #, Low Hazard</i>	<i>Dam #, Non-Jurisdictional</i>	<i>Dam, Total #</i>	<i>Athletic Fields, #</i>	<i>Beach, #</i>	<i>Boat Ramp, #</i>	<i>Parking Lot, #</i>	<i>Picnic Area, #</i>	<i>Play-ground, #</i>	<i>Structure, #</i>
Chicopee	14.2504	0.0192	-	1	-	2	3	3	3	4	6	-	-	14
CT River Greenway	88.5847	0.0105	-	-	-	2	2	1	-	6	10	2	-	16
Holyoke Range	143.2335	0.0204	2	-	-	-	2	-	-	2	23	5	2	35
Robinson	26.5339	0.0244	1	-	-	-	1	-	1	-	4	4	-	23

Fells District

General Information							
<i>Planning Unit</i>	<i>Acres</i>	<i>Ecoregion</i>	<i>Drainage Basin</i>	<i>Town</i>	<i>Senate Legislative District</i>	<i>House Legislative District</i>	<i>ACEC</i>
Alewife Brook	136	Boston Basin	Boston Harbor	Arlington, Belmont, Cambridge, Somerville	4th Middlesex; 2nd Middlesex; 2nd Suffolk and Middlesex	23rd Middlesex, 24th Middlesex, 34th Middlesex	-
Beaver Brook	354	Boston Basin, Gulf of Maine Coastal Plain	Charles	Belmont, Lexington, Waltham	4th Middlesex; 2nd Suffolk and Middlesex; 3rd Middlesex	24th Middlesex, 9th Middlesex	-
Breakheart	698	Boston Basin	North Coastal	Lynn, Saugus, Wakefield	Middlesex and Essex; 3rd Essex and Middlesex	11th Essex, 32nd Middlesex, 9th Essex	-
Middlesex Fells	2347	Boston Basin	Boston Harbor	Malden, Medford, Melrose, Stoneham, Winchester	Middlesex and Essex; 2nd Middlesex	23rd Middlesex, 31st Middlesex, 32nd Middlesex, 33rd Middlesex, 35th Middlesex	-
Mystic River	484	Boston Basin	Boston Harbor	Arlington, Everett, Medford, Medford, Somerville, Winchester	4th Middlesex; Middlesex, Suffolk, and Essex; 2nd Middlesex	23rd Middlesex, 26th Middlesex, 28th Middlesex, 31st Middlesex, 34th Middlesex, 35th Middlesex	-
Rumney Marsh B	10	Boston Basin	North Coastal	Lynn, Saugus	Middlesex, Suffolk, and Essex; 3rd Essex and Middlesex	11th Essex, 16th Suffolk	Rumney Marshes

Water Resources											
<i>Planning Unit</i>	<i>Lake, Pond and Reservoir, ac</i>	<i>Lake, Pond and Reservoir, %</i>	<i>Wetland, ac</i>	<i>Wetland, %</i>	<i>River and Stream, mi</i>	<i>Regulatory Buffer, ac</i>	<i>Regulatory Buffer, %</i>	<i>Coastline, mi</i>	<i>Certified Vernal Pool, #</i>	<i>Potential Vernal Pool, #</i>	<i>Vernal Pool Density, #/ac</i>
Alewife Brook	2.48	1.8	17.95	13.2	2.4245	72.41	53.1	-		1	0.0073
Beaver Brook	3.91	1.1	79.01	22.3	2.9767	52.11	14.7	-	6	9	0.0424
Breakheart	48.62	7.0	54.44	7.8	0.5054	161.32	23.1	-	4	19	0.0329
Middlesex Fells	44.67	1.9	139.28	5.9	3.8300	414.37	17.7	-	26	103	0.0550
Mystic River	14.31	3.0	5.82	1.2	0.4487	175.20	36.2	-	1	1	0.0041
Rumney Marsh B	-	-	1.09	11.2	-	0.03	0.3	1.3806	-	-	-

Fells District, Continued

Forest Resources					
<i>Planning Unit</i>	<i>Forest Reserve, ac</i>	<i>Forest Reserve, %</i>	<i>Forest Cover, ac</i>	<i>Forest Cover, %</i>	<i>Wildland, ac</i>
Alewife Brook	-	-	7.74	5.7	-
Beaver Brook	-	-	220.45	62.2	-
Breakheart	-	-	565.72	81.0	-
Middlesex Fells	-	-	2099.06	89.5	-
Mystic River	-	-	90.95	18.8	-
Rumney Marsh B	-	-	-	-	-

Threatened and Endangered Species								
<i>Planning Unit</i>	<i>Priority Habitat, ac</i>	<i>Priority Habitat, %</i>	<i>Estimated Habitat, ac</i>	<i>Estimated Habitat, %</i>	<i>BioMap Core Habitat, ac</i>	<i>BioMap Core Habitat, %</i>	<i>Living Waters Core Habitat, ac</i>	<i>Living Waters Core Habitat, %</i>
Alewife Brook	-	-	-	-	-	-	-	-
Beaver Brook	-	-	-	-	-	-	-	-
Breakheart	49.24	7.0	-	-	634.39	90.8	-	-
Middlesex Fells	1246.59	53.1	31.20	1.3	2212.14	94.3	-	-
Mystic River	-	-	-	-	-	-	-	-
Rumney Marsh B	-	-	-	-	-	-	-	-

Infrastructure														
<i>Planning Unit</i>	<i>Road and Trail, mi</i>	<i>Road and Trail Density, m/ac</i>	<i>Dam #, Significant Hazard</i>	<i>Dam #, High Hazard</i>	<i>Dam #, Low Hazard</i>	<i>Dam #, Non-Juris-dictional</i>	<i>Dam, Total #</i>	<i>Athletic Field, #</i>	<i>Beach, #</i>	<i>Boat Ramp, #</i>	<i>Parking Lot, #</i>	<i>Picnic Area, #</i>	<i>Play-ground, #</i>	<i>Structure, #</i>
Alewife Brook	-	-	-	-	-	-	-	-	-	-	1	-	-	-
Beaver Brook	-	-	-	-	-	2	2	2	-	-	3	3	1	11
Breakheart	-	-	2	-	-	-	2	1	2	-	7	6	5	16
Middlesex Fells	-	-	5	2	-	9	16	1	-	1	13	3	3	15
Mystic River	-	-	1	-	1	-	2	5	-	2	8	2	1	4
Rumney Marsh B	-	-	-	-	-	-	-	-	-	-	1	-	-	-

Great Brook District

General Information							
<i>Planning Unit</i>	<i>Acres</i>	<i>Ecoregion</i>	<i>Drainage Basin</i>	<i>Town</i>	<i>Senate Legislative District</i>	<i>House Legislative District</i>	<i>ACEC</i>
Great Brook Farm	2741	Gulf of Maine Coastal Plain	Merrimack, Nashua, Sudbury-Assabet-Concord	BillERICA, Carlisle, Chelmsford, Dracut, Groton, Lowell, Tyngsborough	1st Middlesex; 4th Middlesex; 2nd Essex and Middlesex; 3rd Middlesex	14th Middlesex, 16th Middlesex, 17th Middlesex, 1st Middlesex, 22nd Middlesex, 2nd Middlesex, 36th Middlesex	Petapawag
J. Harry Rich	769	Gulf of Maine Coastal Plain	Nashua	Groton, Pepperell	1st Middlesex	1st Middlesex	Petapawag, Squannassit
Walden	387	Gulf of Maine Coastal Plain	Sudbury-Assabet-Concord	Concord, Lincoln	3rd Middlesex	13th Middlesex, 14th Middlesex	-
Willard Brook	10301	Gulf of Maine Coastal Plain, Worcester-Monadnock Plateau	Merrimack, Millers, Nashua	Ashburnham, Ashby, Fitchburg, Lunenburg, Townsend, Winchendon	Worcester and Middlesex; Worcester, Hampden, Hampshire, Franklin	1st Middlesex, 2nd Worcester, 37th Middlesex, 3rd Worcester	Squannassit

Water Resources											
<i>Planning Unit</i>	<i>Lake, Pond and Reservoir, ac</i>	<i>Lake, Pond and Reservoir, %</i>	<i>Wetland, ac</i>	<i>Wetland, %</i>	<i>River and Stream, mi</i>	<i>Regulatory Buffer, ac</i>	<i>Regulatory Buffer, %</i>	<i>Coastline, mi</i>	<i>Certified Vernal Pool, #</i>	<i>Potential Vernal Pool, #</i>	<i>Vernal Pool Density, #/ac</i>
Great Brook Farm	34.90	1.3	550.11	20.1	6.2467	699.28	25.5	-	4	32	0.0131
J. Harry Rich	15.23	2.0	107.89	14.0	1.2581	201.29	26.2	-	10	23	0.0429
Walden	76.09	19.7	14.82	3.8	0.1012	119.54	30.9	-	3	6	0.0233
Willard Brook	65.25	0.6	829.67	8.1	21.2599	1672.04	16.2	-	11	39	0.0049

Forest Resources					
<i>Planning Unit</i>	<i>Forest Reserve, ac</i>	<i>Forest Reserve, %</i>	<i>Forest Cover, ac</i>	<i>Forest Cover, %</i>	<i>Wildland, ac</i>
Great Brook Farm	-	-	2016.90	73.6	-
J. Harry Rich	-	-	710.91	92.5	-
Walden	-	-	247.72	64.0	7.43
Willard Brook	-	-	9626.66	93.5	-

Great Brook District, Continued

Threatened and Endangered Species								
<i>Planning Unit</i>	<i>Priority Habitat, ac</i>	<i>Priority Habitat, %</i>	<i>Estimated Habitat, ac</i>	<i>Estimated Habitat, %</i>	<i>BioMap Core Habitat, ac</i>	<i>BioMap Core Habitat, %</i>	<i>Living Waters Core Habitat, ac</i>	<i>Living Waters Core Habitat, %</i>
Great Brook Farm	1215.74	44.4	1215.74	44.4	696.23	25.4	-	-
J. Harry Rich	582.29	75.7	556.26	72.3	745.79	97.0	-	-
Walden	117.59	30.4	-	-	188.34	48.7	62.96	16.3
Willard Brook	1606.69	15.6	1403.31	13.6	1303.81	12.7	59.46	0.6

Infrastructure														
<i>Planning Unit</i>	<i>Road and Trail, mi</i>	<i>Road and Trail Density, m/ac</i>	<i>Dam #, Significant Hazard</i>	<i>Dam #, High Hazard</i>	<i>Dam #, Low Hazard</i>	<i>Dam #, Non-Juris-dictional</i>	<i>Dam, Total #</i>	<i>Athletic Field, #</i>	<i>Beach, #</i>	<i>Boat Ramp, #</i>	<i>Parking Lot, #</i>	<i>Picnic Area, #</i>	<i>Play-ground, #</i>	<i>Structure, #</i>
Great Brook Farm	-	-	4	-	1	2	7	1	2	5	15	4	1	66
J. Harry Rich	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Walden	13.3560	0.0345	-	-	-	-	-	-	-	-	-	-	-	-
Willard Brook	47.1239	0.0046	-	1	1	-	2	-	4	-	5	7	-	24

Island District

General Information							
<i>Planning Unit</i>	<i>Acres</i>	<i>Ecoregion</i>	<i>Drainage Basin</i>	<i>Town</i>	<i>Senate Legislative District</i>	<i>House Legislative District</i>	<i>ACEC</i>
Boston Harbor Islands	674	Boston Basin	Boston Harbor	Boston, Hingham, Hull, Quincy, Weymouth	1st Suffolk; Norfolk and Plymouth; Plymouth and Norfolk	2nd Norfolk, 3rd Plymouth, 4th Norfolk, 4th Suffolk	-
Weir River/Nantasket Beach	55	Boston Basin	Boston Harbor	Hingham, Hull	Plymouth and Norfolk	3rd Plymouth	Weir River
Weymouth Back River	95	Boston Basin	Boston Harbor	Hingham, Weymouth	Plymouth and Norfolk	3rd Plymouth, 4th Norfolk	-

Water Resources											
<i>Planning Unit</i>	<i>Lake, Pond and Reservoir, ac</i>	<i>Lake, Pond and Reservoir, %</i>	<i>Wetland, ac</i>	<i>Wetland, %</i>	<i>River and Stream, mi</i>	<i>Regulatory Buffer, ac</i>	<i>Regulatory Buffer, %</i>	<i>Coastline, mi</i>	<i>Certified Vernal Pool, #</i>	<i>Potential Vernal Pool, #</i>	<i>Vernal Pool Density, #/ac</i>
Boston Harbor Islands	6.87	1.0	37.04	5.5	8.6060	34.14	5.1	21.4485	-	-	-
Weir River/Nantasket Beach	-	-	2.91	5.3	-	4.05	7.4	2.3932	-	-	-
Weymouth Back River	-	-	6.49	6.8	-	1.32	1.4	2.6915	-	-	-

Forest Resources					
<i>Planning Unit</i>	<i>Forest Reserve, ac</i>	<i>Forest Reserve, %</i>	<i>Forest Cover, ac</i>	<i>Forest Cover, %</i>	<i>Wildland, ac</i>
Boston Harbor Islands	-	-	155.92	23.1	-
Weir River/Nantasket Beach	-	-	5.81	10.6	-
Weymouth Back River	-	-	0.46	0.5	-

Island District, Continued

Threatened and Endangered Species								
<i>Planning Unit</i>	<i>Priority Habitat, ac</i>	<i>Priority Habitat, %</i>	<i>Estimated Habitat, ac</i>	<i>Estimated Habitat, %</i>	<i>BioMap Core Habitat, ac</i>	<i>BioMap Core Habitat, %</i>	<i>Living Waters Core Habitat, ac</i>	<i>Living Waters Core Habitat, %</i>
Boston Harbor Islands	73.79	11.0	30.37	4.5	397.26	59.0	-	-
Weir River/Nantasket Beach	6.13	11.2	6.13	11.2	-	-	-	-
Weymouth Back River	-	-	-	-	-	-	-	-

Infrastructure														
<i>Planning Unit</i>	<i>Road and Trail, mi</i>	<i>Road and Trail Density, mi/ac</i>	<i>Dam #, Significant Hazard</i>	<i>Dam #, High Hazard</i>	<i>Dam #, Low Hazard</i>	<i>Dam #, Non-Jurisdictional</i>	<i>Dam, Total #</i>	<i>Athletic Field, #</i>	<i>Beach, #</i>	<i>Boat Ramp, #</i>	<i>Parking Lot, #</i>	<i>Picnic Area, #</i>	<i>Play-ground, #</i>	<i>Structure, #</i>
Boston Harbor Islands	-	-	-	-	-	-	-	1	9	-	-	13	-	129
Weir River/Nantasket Beach	-	-	-	-	-	-	-	-	1	-	9	3	1	23
Weymouth Back River	-	-	-	-	-	-	-	-	-	-	4	2	-	7

Metro West District

General Information							
<i>Planning Unit</i>	<i>Acres</i>	<i>Ecoregion</i>	<i>Drainage Basin</i>	<i>Town</i>	<i>Senate Legislative District</i>	<i>House Legislative District</i>	<i>ACEC</i>
Cochituate	3473	Gulf of Maine Coastal Plain	Charles, Nashua, Sudbury-Assabet-Concord	Bolton, Boxborough, Framingham, Harvard, Hudson, Marlborough, Natick, Sherborn, Southborough, Stow, Sudbury, Wayland	Middlesex and Worcester; Norfolk, Bristol, and Middlesex; 2nd Middlesex and Norfolk; 3rd Middlesex; Worcester and Middlesex	13th Middlesex, 37th Middlesex, 3rd Middlesex, 4th Middlesex, 5th Middlesex, 6th Middlesex	-
Hopkinton	6175	Gulf of Maine Coastal Plain, Southeast New England Coastal Hills and Plain	Blackstone, Charles, Sudbury-Assabet-Concord	Ashland, Berlin, Holliston, Hopedale, Hopkinton, Marlborough, Milford, Northborough, Northbridge, Upton, Westborough	1st Worcester; Middlesex and Worcester; 2nd Middlesex and Norfolk; 2nd Worcester; Worcester and Norfolk	10th Worcester, 12th Worcester, 4th Middlesex, 7th Middlesex, 8th Middlesex, 9th Worcester	Miscoe, Warren and Whitehall Watersheds

Water Resources											
<i>Planning Unit</i>	<i>Lake, Pond and Reservoir, ac</i>	<i>Lake, Pond and Reservoir, %</i>	<i>Wetland, ac</i>	<i>Wetland, %</i>	<i>River and Stream, mi</i>	<i>Regulatory Buffer, ac</i>	<i>Regulatory Buffer, %</i>	<i>Coastline, mi</i>	<i>Certified Vernal Pool, #</i>	<i>Potential Vernal Pool, #</i>	<i>Vernal Pool Density, #/ac</i>
Cochituate	714.13	20.6	638.23	18.4	9.7826	1508.68	43.4	-	6	31	0.0107
Hopkinton	942.66	15.3	779.79	12.6	23.5046	2361.84	38.3	-	3	42	0.0073

Forest Resources						
<i>Planning Unit</i>	<i>Forest Reserve, ac</i>	<i>Forest Reserve, %</i>	<i>Forest Cover, ac</i>	<i>Forest Cover, %</i>	<i>Wildland, ac</i>	
Cochituate	-	-	2013.90	58.0	-	
Hopkinton	-	-	4631.91	75.0	-	

Threatened and Endangered Species								
<i>Planning Unit</i>	<i>Priority Habitat, ac</i>	<i>Priority Habitat, %</i>	<i>Estimated Habitat, ac</i>	<i>Estimated Habitat, %</i>	<i>BioMap Core Habitat, ac</i>	<i>BioMap Core Habitat, %</i>	<i>Living Waters Core Habitat, ac</i>	<i>Living Waters Core Habitat, %</i>
Cochituate	672.14	19.4	650.13	18.7	220.42	6.3	-	-
Hopkinton	1551.90	25.1	735.70	11.9	1008.25	16.3	559.71	9.1

Metro West District, Continued

Infrastructure														
<i>Planning Unit</i>	<i>Road and Trail, mi</i>	<i>Road and Trail Density, mi/ac</i>	<i>Dam #, Significant Hazard</i>	<i>Dam #, High Hazard</i>	<i>Dam #, Low Hazard</i>	<i>Dam #, Non-Jurisdictional</i>	<i>Dam, Total #</i>	<i>Athletic Field, #</i>	<i>Beach, #</i>	<i>Boat Ramp, #</i>	<i>Parking Lot, #</i>	<i>Picnic Area, #</i>	<i>Play-ground, #</i>	<i>Structure, #</i>
Cochituate	-	-	1	2	2	1	6	1	3	3	6	-	-	17
Hopkinton	48.2599	0.0078	4	5	-	3	12	-	3	4	6	14	-	24

North Berkshire District

General Information							
<i>Planning Unit</i>	<i>Acres</i>	<i>Ecoregion</i>	<i>Drainage Basin</i>	<i>Town</i>	<i>Senate Legislative District</i>	<i>House Legislative District</i>	<i>ACEC</i>
Appalachian Trail C	343	Berkshire-Vermont Upland	Housatonic, Hudson	Dalton, Lanesborough, Pittsfield	Berkshire, Hampshire, and Franklin	2nd Berkshire	-
Catamount	5002	Berkshire-Vermont Upland, Connecticut River Valley, Southern Vermont Piedmont	Connecticut, Deerfield	Buckland, Charlemont, Colrain, Conway, Deerfield, Heath, Leyden, Shelburne	Berkshire, Hampshire, and Franklin; Hampshire and Franklin	1st Berkshire, 1st Franklin, 2nd Berkshire	-
Mount Greylock	16398	Taconic Mountains	Housatonic, Hudson	Adams, Cheshire, Hancock, Lanesborough, New Ashford, North Adams, Williamstown	Berkshire, Hampshire, and Franklin	1st Berkshire, 2nd Berkshire	-
Monroe	10606	Berkshire-Vermont Upland, Southern Green Mountains, Taconic Mountains	Deerfield, Hudson	Clarksburg, Florida, Monroe, North Adams, Rowe, Williamstown	Berkshire, Hampshire, and Franklin	1st Berkshire	-
Savoy	27313	Berkshire-Vermont Upland, Hudson Highlands, Southern Vermont Piedmont	Deerfield, Hudson, Westfield	Adams, Ashfield, Buckland, Charlemont, Florida, Hawley, North Adams, Plainfield, Rowe, Savoy, Windsor	Berkshire, Hampshire, and Franklin; Hampshire and Franklin	1st Berkshire, 2nd Berkshire	-

Water Resources											
<i>Planning Unit</i>	<i>Lake, Pond and Reservoir, ac</i>	<i>Lake, Pond and Reservoir, %</i>	<i>Wetland, ac</i>	<i>Wetland, %</i>	<i>River and Stream, mi</i>	<i>Regulatory Buffer, ac</i>	<i>Regulatory Buffer, %</i>	<i>Coastline, mi</i>	<i>Certified Vernal Pool, #</i>	<i>Potential Vernal Pool, #</i>	<i>Vernal Pool Density, #/ac</i>
Appalachian Trail C	-	-	9.19	2.7	0.3221	-	-	-	-	-	-
Catamount	45.01	0.9	107.54	2.1	20.9003	870.51	17.4	-	-	11	0.0022
Mount Greylock	7.69	0.0	98.66	0.6	31.5393	609.69	3.7	-	9	24	0.0020
Monroe	368.09	3.5	184.45	1.7	23.2684	1227.46	11.6	-	-	17	0.0016
Savoy	142.93	0.5	641.81	2.3	83.3839	2958.37	10.8	-	-	49	0.0018

North Berkshire District, Continued

Forest Resources					
<i>Planning Unit</i>	<i>Forest Reserve, ac</i>	<i>Forest Reserve, %</i>	<i>Forest Cover, ac</i>	<i>Forest Cover, %</i>	<i>Wildland, ac</i>
Appalachian Trail C	342.56	100.0	335.32	97.9	-
Catamount	268.40	5.4	4520.10	90.4	-
Mount Greylock	8820.07	53.8	15508.08	94.6	2057.80
Monroe	2215.61	20.9	9749.36	91.9	1066.22
Savoy	7733.17	28.3	26433.03	96.8	303.54

Threatened and Endangered Species								
<i>Planning Unit</i>	<i>Priority Habitat, ac</i>	<i>Priority Habitat, %</i>	<i>Estimated Habitat, ac</i>	<i>Estimated Habitat, %</i>	<i>BioMap Core Habitat, ac</i>	<i>BioMap Core Habitat, %</i>	<i>Living Waters Core Habitat, ac</i>	<i>Living Waters Core Habitat, %</i>
Appalachian Trail C	23.67	6.9	9.78	2.9	193.55	56.5	-	-
Catamount	1267.64	25.3	976.63	19.5	2331.33	46.6	33.48	0.7
Mount Greylock	9306.77	56.8	993.82	6.1	15174.67	92.5	56.23	0.3
Monroe	4044.23	38.1	864.15	8.1	645.72	6.1	21.56	0.2
Savoy	5208.39	19.1	3127.01	11.4	13356.25	48.9	146.23	0.5

Infrastructure														
<i>Planning Unit</i>	<i>Road and Trail, mi</i>	<i>Road and Trail Density, mi/ac</i>	<i>Dam #, Significant Hazard</i>	<i>Dam #, High Hazard</i>	<i>Dam #, Low Hazard</i>	<i>Dam #, Non-Jurisdictional</i>	<i>Dam, Total #</i>	<i>Athletic Field, #</i>	<i>Beach, #</i>	<i>Boat Ramp, #</i>	<i>Parking Lot, #</i>	<i>Picnic Area, #</i>	<i>Play-ground, #</i>	<i>Structure, #</i>
Appalachian Trail C	14.6601	0.0428	-	-	-	-	-	-	-	-	-	-	-	-
Catamount	35.2741	0.0071	-	-	2	-	2	-	-	-	-	-	-	-
Mount Greylock	266.5012	0.0163	1	-	-	-	1	2	-	-	9	-	-	37
Monroe	80.1013	0.0076	2	-	-	-	2	-	1	1	6	2	-	13
Savoy	316.7934	0.0116	3	-	2	1	6	-	3	4	11	2	-	53

Quabbin Highlands District

General Information							
<i>Planning Unit</i>	<i>Acres</i>	<i>Ecoregion</i>	<i>Drainage Basin</i>	<i>Town</i>	<i>Senate Legislative District</i>	<i>House Legislative District</i>	<i>ACEC</i>
Carroll Holmes	10120	Lower Worcester Plateau	Chicopee, Connecticut, Millers	Erving, Montague, New Salem, Orange, Shutesbury, Wendell	Hampshire and Franklin; Worcester, Hampden, Hampshire, Franklin	1st Franklin, 2nd Franklin	-
Dunn Pond	132	Worcester-Monadnock Plateau	Millers	Gardner	Worcester and Middlesex	2nd Worcester	-
Erving	19494	Lower Worcester Plateau, Worcester-Monadnock Plateau	Chicopee, Connecticut, Millers	Erving, Northfield, Orange, Royalston, Warwick, Wendell	Hampshire and Franklin; Worcester, Hampden, Hampshire, Franklin	1st Franklin, 2nd Berkshire, 2nd Franklin, 2nd Worcester	-
Leominster	4592	Gulf of Maine Coastal Plain, Lower Worcester Plateau, Worcester-Monadnock Plateau	Nashua	Fitchburg, Lancaster, Leominster, Princeton, Sterling, Westminster	1st Worcester; Worcester and Middlesex	1st Worcester, 37th Middlesex, 3rd Worcester, 4th Worcester	Central Nashua River Valley
Otter River	9809	Lower Worcester Plateau, Worcester-Monadnock Plateau	Chicopee, Millers	Athol, Gardner, Hubbardston, New Salem, Petersham, Phillipston, Royalston, Templeton, Warwick, Westminster, Winchendon	Hampshire and Franklin; Worcester and Middlesex; Worcester, Hampden, Hampshire, Franklin	1st Franklin, 1st Worcester, 2nd Franklin, 2nd Worcester, 5th Worcester	-
Wachusett Mountain	2615	Worcester-Monadnock Plateau	Chicopee, Millers, Nashua	Gardner, Princeton, Westminster	1st Worcester; Worcester and Middlesex; Worcester, Hampden, Hampshire, Franklin	1st Worcester, 2nd Worcester	-

Water Resources											
<i>Planning Unit</i>	<i>Lake, Pond and Reservoir, ac</i>	<i>Lake, Pond and Reservoir, %</i>	<i>Wetland, ac</i>	<i>Wetland, %</i>	<i>River and Stream, mi</i>	<i>Regulatory Buffer, ac</i>	<i>Regulatory Buffer, %</i>	<i>Coastline, mi</i>	<i>Certified Vernal Pool, #</i>	<i>Potential Vernal Pool, #</i>	<i>Vernal Pool Density, #/ac</i>
Carroll Holmes	91.01	0.9	376.66	3.7	25.8517	1265.09	12.5	-	-	19	0.0019
Dunn Pond	18.00	13.6	0.92	0.7	0.4390	52.76	39.9	-	-	-	-
Erving	127.77	0.7	915.99	4.7	39.0680	2248.05	11.5	-	4	40	0.0023
Leominster	116.82	2.5	368.58	8.0	10.6335	796.20	17.3	-	1	9	0.0022
Otter River	81.06	0.8	757.81	7.7	18.3396	1327.81	13.5	-	18	44	0.0063
Wachusett Mountain	3.67	0.1	140.19	5.4	3.5550	254.13	9.7	-	-	8	0.0031

Quabbin Highlands District, Continued

Forest Resources					
<i>Planning Unit</i>	<i>Forest Reserve, ac</i>	<i>Forest Reserve, %</i>	<i>Forest Cover, ac</i>	<i>Forest Cover, %</i>	<i>Wildland, ac</i>
Carroll Holmes	-	-	9677.46	95.6	-
Dunn Pond	-	-	110.26	83.5	-
Erving	-	-	18592.23	95.4	-
Leominster	-	-	4310.92	93.9	-
Otter River	-	-	8969.80	91.4	-
Wachusett Mountain	-	-	2321.14	88.8	4.44

Threatened and Endangered Species								
<i>Planning Unit</i>	<i>Priority Habitat, ac</i>	<i>Priority Habitat, %</i>	<i>Estimated Habitat, ac</i>	<i>Estimated Habitat, %</i>	<i>BioMap Core Habitat, ac</i>	<i>BioMap Core Habitat, %</i>	<i>Living Waters Core Habitat, ac</i>	<i>Living Waters Core Habitat, %</i>
Carroll Holmes	683.15	6.8	683.15	6.8	1802.41	17.8	20.48	0.2
Dunn Pond	-	-	-	-	-	-	-	-
Erving	2187.70	11.2	2126.07	10.9	2384.42	12.2	23.92	0.1
Leominster	174.75	3.8	160.25	3.5	274.96	6.0	0.25	0.0
Otter River	1043.60	10.6	1043.21	10.6	4288.55	43.7	0.51	0.0
Wachusett Mountain	358.57	13.7	34.03	1.3	422.77	16.2	-	-

Infrastructure														
<i>Planning Unit</i>	<i>Road and Trail, mi</i>	<i>Road and Trail Density, m/ac</i>	<i>Dam #, Significant Hazard</i>	<i>Dam #, High Hazard</i>	<i>Dam #, Low Hazard</i>	<i>Dam #, Non-Jurisdictional</i>	<i>Dam, Total #</i>	<i>Athletic Field, #</i>	<i>Beach, #</i>	<i>Boat Ramp, #</i>	<i>Parking Lot, #</i>	<i>Picnic Area, #</i>	<i>Play-ground, #</i>	<i>Structure, #</i>
Carroll Holmes	120.3224	0.0119	1	-	1	-	2	2	2	2	5	4	-	18
Dunn Pond	-	-	1	-	-	1	2	-	-	-	-	-	-	3
Erving	159.9199	0.0082	-	-	4	-	4	-	1	1	-	-	-	29
Leominster	76.3782	0.0166	3	-	2	-	5	-	1	2	4	2	-	11
Otter River	38.7791	0.0040	-	-	2	-	2	-	2	-	1	1	-	34
Wachusett Mountain	0.3266	0.0001	1	-	-	-	1	-	-	-	24	8	-	38

Shore District

General Information							
<i>Planning Unit</i>	<i>Acres</i>	<i>Ecoregion</i>	<i>Drainage Basin</i>	<i>Town</i>	<i>Senate Legislative District</i>	<i>House Legislative District</i>	<i>ACEC</i>
Dorchester Beaches	70	Boston Basin	Boston Harbor	Boston	1st Suffolk	13th Suffolk, 4th Suffolk	Neponset River Estuary
Emerald Necklace A	88	Boston Basin	Boston Harbor, Charles	Boston, Brookline	2nd Suffolk	11th Suffolk, 15th Suffolk	-
Neponset River B	512	Boston Basin	Boston Harbor	Boston, Milton, Quincy	1st Suffolk; Norfolk and Plymouth; Norfolk, Bristol, and Plymouth; Suffolk and Norfolk	12th Suffolk, 13th Suffolk, 14th Suffolk, 1st Norfolk, 6th Suffolk, 7th Norfolk	Neponset River Estuary
Quincy Shores	124	Boston Basin	Boston Harbor, Charles	Boston, Quincy	1st Suffolk; Norfolk and Plymouth; 2nd Suffolk	11th Suffolk, 13th Suffolk, 1st Norfolk, 2nd Norfolk, 6th Suffolk	-
South Boston Beaches	153	Boston Basin	Boston Harbor	Boston	1st Suffolk	13th Suffolk, 4th Suffolk	-
Southwest Corridor	225	Boston Basin	Boston Harbor, Charles	Boston	2nd Suffolk; Suffolk and Norfolk	11th Suffolk, 15th Suffolk, 3rd Suffolk, 6th Suffolk, 7th Suffolk, 9th Suffolk	-

Water Resources											
<i>Planning Unit</i>	<i>Lake, Pond and Reservoir, ac</i>	<i>Lake, Pond and Reservoir, %</i>	<i>Wetland, ac</i>	<i>Wetland, %</i>	<i>River and Stream, mi</i>	<i>Regulatory Buffer, ac</i>	<i>Regulatory Buffer, %</i>	<i>Coastline, mi</i>	<i>Certified Vernal Pool, #</i>	<i>Potential Vernal Pool, #</i>	<i>Vernal Pool Density, #/ac</i>
Dorchester Beaches	-	-	4.25	6.0	-	6.65	9.4	2.932553	-	-	-
Emerald Necklace A	0.48	0.5	-	-	-	3.77	4.3	-	-	1	0.0114
Neponset River B	2.41	0.5	210.58	41.1	1.2190	266.17	52.0	2.281948	-	-	-
Quincy Shores	1.67	1.4	23.77	19.2	0.5588	36.56	29.6	3.831258	-	-	-
South Boston Beaches	-	-	-	-	0.2238	-	-	5.409169	-	-	-
Southwest Corridor	-	-	0.41	0.2	-	0.39	0.2	-	-	-	-

Shore District, Continued

Forest Resources					
<i>Planning Unit</i>	<i>Forest Reserve, ac</i>	<i>Forest Reserve, %</i>	<i>Forest Cover, ac</i>	<i>Forest Cover, %</i>	<i>Wildland, ac</i>
Dorchester Beaches	-	-	-	-	-
Emerald Necklace A	-	-	3.15	3.6	-
Neponset River B	-	-	60.64	11.8	-
Quincy Shores	-	-	20.40	16.5	-
South Boston Beaches	-	-	-	-	-
Southwest Corridor	-	-	-	-	-

Threatened and Endangered Species								
<i>Planning Unit</i>	<i>Priority Habitat, ac</i>	<i>Priority Habitat, %</i>	<i>Estimated Habitat, ac</i>	<i>Estimated Habitat, %</i>	<i>BioMap Core Habitat, ac</i>	<i>BioMap Core Habitat, %</i>	<i>Living Waters Core Habitat, ac</i>	<i>Living Waters Core Habitat, %</i>
Dorchester Beaches	-	-	-	-	-	-	-	-
Emerald Necklace A	4.99	5.7	4.99	5.7	-	-	0.10	0.1
Neponset River B	-	-	-	-	-	-	0.16	0.0
Quincy Shores	-	-	-	-	-	-	-	-
South Boston Beaches	0.25	0.2	-	-	-	-	-	-
Southwest Corridor	-	-	-	-	-	-	-	-

Shore District, Continued

Infrastructure														
<i>Planning Unit</i>	<i>Road and Trails, mi</i>	<i>Road and Trail Density, mi/ac</i>	<i>Dam #, Significant Hazard</i>	<i>Dam #, High Hazard</i>	<i>Dam #, Low Hazard</i>	<i>Dam #, Non-Jurisdictional</i>	<i>Dam, Total #</i>	<i>Athletic Field, #</i>	<i>Beach, #</i>	<i>Boat Ramp, #</i>	<i>Parking Lot, #</i>	<i>Picnic Area, #</i>	<i>Play-ground, #</i>	<i>Structure, #</i>
Dorchester Beaches	-	-	-	-	-	-	-	-	2	2	3	6	2	14
Emerald Necklace A	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neponset River B	-	-	1	-	-	-	1	-	-	-	2	1	-	23
Quincy Shores	-	-	-	-	-	-	-	-	1	-	1	-	-	10
South Boston Beaches	-	-	-	-	-	-	-	4	5	-	4	4	4	44
Southwest Corridor	-	-	-	-	-	-	-	1	-	-	-	-	9	5

South Berkshire District

General Information							
<i>Planning Unit</i>	<i>Acres</i>	<i>Ecoregion</i>	<i>Drainage Basin</i>	<i>Town</i>	<i>Senate Legislative District</i>	<i>House Legislative District</i>	<i>ACEC</i>
Appalachian Trail A	549	Berkshire-Vermont Upland, Hudson Highlands, Taconic Mountains	Housatonic	Egremont, Great Barrington, Monterey, Mount Washington	Berkshire, Hampshire, and Franklin	4th Berkshire	Karner Brook Watershed, Schenob Brook Drainage Basin
Beartown	20921	Berkshire-Vermont Upland, Hudson Highlands, Taconic Mountains	Farmington, Housatonic	Becket, Great Barrington, Lee, Monterey, New Marlborough, Otis, Sandisfield, Sheffield, Stockbridge, Tyringham	Berkshire, Hampshire, and Franklin	2nd Berkshire, 4th Berkshire	-
Granville	2432	Hudson Highlands	Farmington	Granville, Tolland	2nd Hampden and Hampshire	3rd Hampden, 4th Berkshire	-
Mount Washington	8179	Taconic Mountains	Housatonic, Hudson	Egremont, Mount Washington, Sheffield	Berkshire, Hampshire, and Franklin	4th Berkshire	Karner Brook Watershed, Schenob Brook Drainage Basin
Tolland	14583	Berkshire-Vermont Upland, Hudson Highlands	Connecticut, Farmington, Housatonic, Westfield	Becket, Blandford, Chester, Huntington, Montgomery, Otis, Sandisfield, Tolland	Berkshire, Hampshire, and Franklin; 2nd Hampden and Hampshire	1st Franklin, 1st Hampshire, 2nd Berkshire, 4th Berkshire	-

Water Resources											
<i>Planning Unit</i>	<i>Lake, Pond and Reservoir, ac</i>	<i>Lake, Pond and Reservoir, %</i>	<i>Wetland, ac</i>	<i>Wetland, %</i>	<i>River and Stream, mi</i>	<i>Regulatory Buffer, ac</i>	<i>Regulatory Buffer, %</i>	<i>Coastline, mi</i>	<i>Certified Vernal Pool, #</i>	<i>Potential Vernal Pool, #</i>	<i>Vernal Pool Density, #/ac</i>
Appalachian Trail A	-	-	3.28	0.6	1.9261	72.40	13.2	-	-	-	-
Beartown	534.09	2.6	1420.09	6.8	35.7427	2887.99	13.8	-	7	26	0.0016
Granville	6.56	0.3	105.57	4.3	7.4064	417.29	17.2	-	-	1	0.0004
Mount Washington	20.57	0.3	67.20	0.8	18.1406	723.02	8.8	-	-	16	0.0020
Tolland	1165.52	8.0	1185.61	8.1	29.8744	2992.82	20.5	-	-	15	0.0010

South Berkshire District, Continued

Forest Resources					
<i>Planning Unit</i>	<i>Forest Reserve, ac</i>	<i>Forest Reserve, %</i>	<i>Forest Cover, ac</i>	<i>Forest Cover, %</i>	<i>Wildland, ac</i>
Appalachian Trail A	539.72	98.2	546.18	99.4	-
Beartown	1219.76	5.8	19294.76	92.2	33.63
Granville	163.60	6.7	2392.77	98.4	-
Mount Washington	6359.65	77.8	7725.61	94.5	648.87
Tolland	1817.49	12.5	12662.92	86.8	-

Threatened and Endangered Species								
<i>Planning Unit</i>	<i>Priority Habitat, ac</i>	<i>Priority Habitat, %</i>	<i>Estimated Habitat, ac</i>	<i>Estimated Habitat, %</i>	<i>BioMap Core Habitat, ac</i>	<i>BioMap Core Habitat, %</i>	<i>Living Waters Core Habitat, ac</i>	<i>Living Waters Core Habitat, %</i>
Appalachian Trail A	438.20	79.7	437.99	79.7	426.67	77.6	-	-
Beartown	244.00	1.2	152.17	0.7	5084.20	24.3	37.05	0.2
Granville	-	-	-	-	1064.59	43.8	-	-
Mount Washington	7548.71	92.3	7525.62	92.0	7982.69	97.6	-	-
Tolland	1713.84	11.8	1665.19	11.4	281.58	1.9	988.86	6.8

Infrastructure														
<i>Planning Unit</i>	<i>Road and Trail, mi</i>	<i>Road and Trail Density, mi/ac</i>	<i>Dam #, Significant Hazard</i>	<i>Dam #, High Hazard</i>	<i>Dam #, Low Hazard</i>	<i>Dam #, Non-Jurisdictional</i>	<i>Dam, Total #</i>	<i>Athletic Field, #</i>	<i>Beach, #</i>	<i>Boat Ramp, #</i>	<i>Parking Lot, #</i>	<i>Picnic Area, #</i>	<i>Play-ground, #</i>	<i>Structure, #</i>
Appalachian Trail A	29.3203	0.0534	-	-	-	-	-	-	-	-	-	-	-	-
Beartown	100.1339	0.0048	1	5	2	-	8	4	4	4	-	-	-	15
Granville	16.6485	0.0068	-	-	-	1	1	-	-	-	-	-	-	7
Mount Washington	56.0217	0.0068	-	-	1	1	2	3	4	4	-	-	-	26
Tolland	99.4181	0.0068	-	2	2	2	6	-	-	-	-	-	-	27

South Coast District

General Information							
<i>Planning Unit</i>	<i>Acres</i>	<i>Ecoregion</i>	<i>Drainage Basin</i>	<i>Town</i>	<i>Senate Legislative District</i>	<i>House Legislative District</i>	<i>ACEC</i>
Borderland	1776	Gulf of Maine Coastal Plain	Boston Harbor, Taunton	Easton, Sharon	Norfolk, Bristol, and Plymouth	11th Plymouth, 8th Norfolk	Canoe River Aquifer
F. Gilbert Hills	3535	Gulf of Maine Coastal Plain, Southeast New England Coastal Hills and Plain	Blackstone, Charles, Taunton	Bellingham, Dover, Foxborough, Franklin, Medfield, Millis, Norfolk, Plainville, Sherborn, Wrentham	Bristol and Norfolk; Norfolk, Bristol, and Middlesex; 2nd Middlesex and Norfolk; Worcester and Norfolk	10th Norfolk, 13th Norfolk, 18th Worcester, 1st Bristol, 5th Middlesex, 9th Norfolk	-
Fort Phoenix	597	Narragansett-Bristol Lowland and Islands	Buzzards Bay	Fairhaven, Mattapoisett, New Bedford	2nd Bristol and Plymouth	10th Bristol, 13th Bristol	-
Freetown-Fall River	11169	Narragansett-Bristol Lowland and Islands	Buzzards Bay, Narragansett Bay, Taunton	Berkley, Dartmouth, Fall River, Freetown, New Bedford	1st Bristol and Plymouth; 2nd Bristol and Plymouth	11th Bristol, 12th Bristol, 6th Bristol, 7th Bristol, 8th Bristol, 9th Bristol	-
Horseneck	1264	Narragansett-Bristol Lowland and Islands	Buzzards Bay	Dartmouth, Westport	1st Bristol and Plymouth; 2nd Bristol and Plymouth	8th Bristol, 9th Bristol	-
Massasoit	1655	Gulf of Maine Coastal Plain, Narragansett-Bristol Lowland and Islands	Narragansett Bay, Taunton	Bridgewater, Lakeville, Middleborough, Raynham, Rehoboth, Taunton, West Bridgewater	Bristol and Norfolk; 1st Bristol and Plymouth; 1st Plymouth and Bristol; Norfolk, Bristol, and Plymouth	10th Plymouth, 12th Bristol, 12th Plymouth, 3rd Bristol, 4th Bristol, 8th Plymouth	Canoe River Aquifer

Water Resources											
<i>Planning Unit</i>	<i>Lake, Pond and Reservoir, ac</i>	<i>Lake, Pond and Reservoir, %</i>	<i>Wetland, ac</i>	<i>Wetland, %</i>	<i>River and Stream, mi</i>	<i>Regulatory Buffer, ac</i>	<i>Regulatory Buffer, %</i>	<i>Coastline, mi</i>	<i>Certified Vernal Pool, #</i>	<i>Potential Vernal Pool, #</i>	<i>Vernal Pool Density, #/ac</i>
Borderland	177.78	10.0	303.91	17.1	6.2907	550.54	31.0	-	-	20	0.0113
F. Gilbert Hills	64.08	1.8	501.90	14.2	9.1606	789.26	22.3	-	3	41	0.0124
Fort Phoenix	8.32	1.4	160.96	27.0	0.9729	201.27	33.7	4.6276	1	9	0.0168
Freetown-Fall River	77.86	0.7	2253.15	20.2	16.5807	2401.03	21.5	0.9412	16	81	0.0087
Horseneck	27.97	2.2	270.27	21.4	2.9408	392.79	31.1	11.8326	1	14	0.0119
Massasoit	206.29	12.5	274.04	16.6	6.6659	596.21	36.0	-	2	12	0.0085

South Coast District, Continued

Forest Resources					
<i>Planning Unit</i>	<i>Forest Reserve, ac</i>	<i>Forest Reserve, %</i>	<i>Forest Cover, ac</i>	<i>Forest Cover, %</i>	<i>Wildland, ac</i>
Borderland	-	-	1454.92	81.9	-
F. Gilbert Hills	-	-	3120.75	88.3	-
Fort Phoenix	-	-	427.46	71.6	-
Freetown-Fall River	-	-	10676.55	95.6	-
Horseneck	-	-	287.24	22.7	-
Massasoit	-	-	1152.58	69.7	-

Threatened and Endangered Species								
<i>Planning Unit</i>	<i>Priority Habitat, ac</i>	<i>Priority Habitat, %</i>	<i>Estimated Habitat, ac</i>	<i>Estimated Habitat, %</i>	<i>BioMap Core Habitat, ac</i>	<i>BioMap Core Habitat, %</i>	<i>Living Waters Core Habitat, ac</i>	<i>Living Waters Core Habitat, %</i>
Borderland	1389.90	78.3	1389.90	78.3	1681.51	94.7	-	-
F. Gilbert Hills	525.49	14.9	9.03	0.3	1000.76	28.3	-	-
Fort Phoenix	365.41	61.2	365.22	61.2	448.20	75.1	-	-
Freetown-Fall River	2660.63	23.8	2506.14	22.4	10942.57	98.0	961.31	8.6
Horseneck	878.13	69.5	754.84	59.7	1056.48	83.6	-	-
Massasoit	267.43	16.2	213.79	12.9	1164.66	70.4	1.24	0.1

Infrastructure														
<i>Planning Unit</i>	<i>Road and Trail, mi</i>	<i>Road and Trail Density, mi/ac</i>	<i>Dam #, Significant Hazard</i>	<i>Dam #, High Hazard</i>	<i>Dam #, Low Hazard</i>	<i>Dam #, Non-Jurisdictional</i>	<i>Dam, Total #</i>	<i>Athletic Field, #</i>	<i>Beach, #</i>	<i>Boat Ramp, #</i>	<i>Parking Lot, #</i>	<i>Picnic Area, #</i>	<i>Play-ground, #</i>	<i>Structure, #</i>
Borderland	19.4651	0.0110	9	-	-	-	9	-	-	-	5	-	-	22
F. Gilbert Hills	3.7946	0.0011	2	-	-	-	2	-	-	-	3	-	-	8
Fort Phoenix	6.4518	0.0108	-	-	-	-	-	2	1	-	-	-	-	5
Freetown-Fall River	119.0212	0.0107	-	-	-	-	-	-	-	-	-	-	-	34
Horseneck	2.1446	0.0017	-	-	-	1	1	1	6	3	5	-	1	27
Massasoit	30.4676	0.0184	5	1	-	-	6	-	2	1	7	1	-	12

West District

General Information							
<i>Planning Unit</i>	<i>Acres</i>	<i>Ecoregion</i>	<i>Drainage Basin</i>	<i>Town</i>	<i>Senate Legislative District</i>	<i>House Legislative District</i>	<i>ACEC</i>
Brook Farm	955	Boston Basin, Gulf of Maine Coastal Plain	Charles	Boston, Dedham, Needham, Newton	1st Middlesex and Norfolk; Norfolk, Bristol, and Middlesex; Suffolk and Norfolk	10th Suffolk, 11th Norfolk, 12th Middlesex, 13th Norfolk	-
Chestnut Hill	44	Boston Basin	Charles	Boston	2nd Suffolk and Middlesex	18th Suffolk	-
Elm Bank	182	Gulf of Maine Coastal Plain	Charles	Dover, Natick, Needham, Wellesley	Bristol and Norfolk; Norfolk, Bristol, and Middlesex	13th Norfolk, 14th Norfolk	-
Hammond Pond	139	Boston Basin	Charles	Boston, Brookline, Newton	1st Middlesex and Norfolk; Suffolk and Norfolk	10th Suffolk, 12th Middlesex	-
Stony Brook	678	Boston Basin, Gulf of Maine Coastal Plain	Boston Harbor, Charles	Boston, Dedham	Suffolk and Norfolk	10th Suffolk, 11th Norfolk, 14th Suffolk	Fowl Meadow and Ponkapoag Bog
Upper Basin A	247	Boston Basin	Charles	Needham, Newton, Waltham, Wellesley, Weston	1st Middlesex and Norfolk; Norfolk, Bristol, and Middlesex; 2nd Suffolk and Middlesex; Third Middlesex	10th Middlesex, 11th Middlesex, 12th Middlesex, 13th Norfolk, 14th Norfolk	-
Wilson Mountain	215	Boston Basin, Gulf of Maine Coastal Plain	Charles	Dedham	Suffolk and Norfolk	11th Norfolk	-

Water Resources											
<i>Planning Unit</i>	<i>Lake, Pond and Reservoir, ac</i>	<i>Lake, Pond and Reservoir, %</i>	<i>Wetland, ac</i>	<i>Wetland, %</i>	<i>River and Stream, mi</i>	<i>Regulatory Buffer, ac</i>	<i>Regulatory Buffer, %</i>	<i>Coastline, mi</i>	<i>Certified Vernal Pool, #</i>	<i>Potential Vernal Pool, #</i>	<i>Vernal Pool Density, #/ac</i>
Brook Farm	47.29	5.0	575.44	60.2	4.1877	787.50	82.5	-	1	14	0.0157
Chestnut Hill	1.07	2.5	-	-	-	13.93	32.0	-	-	-	-
Elm Bank	0.33	0.2	16.12	8.9	0.0687	37.88	20.8	-	-	2	0.0110
Hammond Pond	2.49	1.8	38.20	27.4	0.1191	48.98	35.2	-	1	3	0.0287
Stony Brook	11.79	1.7	65.53	9.7	2.5151	178.73	26.36	-	2	16	0.0265
Upper Basin A	8.70	3.5	21.81	8.8	0.6438	153.03	62.0	-	1	4	0.0202
Wilson Mountain	0.78	0.4	13.91	6.5	1.2258	31.50	14.6	-	-	3	0.0139

West District, Continued

Forest Resources					
<i>Planning Unit</i>	<i>Forest Reserve, ac</i>	<i>Forest Reserve, %</i>	<i>Forest Cover, ac</i>	<i>Forest Cover, %</i>	<i>Wildland, ac</i>
Brook Farm	-	-	338.79	35.5	-
Chestnut Hill	-	-	32.00	73.5	-
Elm Bank	-	-	110.21	60.6	-
Hammond Pond	-	-	119.90	86.1	-
Stony Brook	-	-	531.72	78.4	-
Upper Basin A	-	-	138.69	56.2	-
Wilson Mountain	-	-	192.83	89.6	-

Threatened and Endangered Species								
<i>Planning Unit</i>	<i>Priority Habitat, ac</i>	<i>Priority Habitat, %</i>	<i>Estimated Habitat, ac</i>	<i>Estimated Habitat, %</i>	<i>BioMap Core Habitat, ac</i>	<i>BioMap Core Habitat, %</i>	<i>Living Waters Core Habitat, ac</i>	<i>Living Waters Core Habitat, %</i>
Brook Farm	674.11	70.6	159.77	16.7	7.72	0.8	-	-
Chestnut Hill	-	-	-	-	-	-	-	-
Elm Bank	7.87	4.3	7.87	4.3	-	-	0.62	0.3
Hammond Pond	-	-	-	-	-	-	-	-
Stony Brook	405.04	59.7	135.00	19.9	416.82	61.5	-	-
Upper Basin A	-	-	-	-	-	-	-	-
Wilson Mountain	2.09	1.0	2.09	1.0	-	-	-	-

West District, Continued

Infrastructure														
<i>Planning Unit</i>	<i>Road and Trail, mi</i>	<i>Road and Trail Density, mi/ac</i>	<i>Dam #, Significant Hazard</i>	<i>Dam #, High Hazard</i>	<i>Dam #, Low Hazard</i>	<i>Dam #, Non-Jurisdictional</i>	<i>Dam, Total #</i>	<i>Athletic Field, #</i>	<i>Beach, #</i>	<i>Boat Ramp, #</i>	<i>Parking Lot, #</i>	<i>Picnic Area, #</i>	<i>Play-ground, #</i>	<i>Structure, #</i>
Brook Farm	-	-	-	-	-	-	-	-	-	-	-	-	1	5
Chestnut Hill	-	-	-	1	-	-	1	-	-	-	-	-	-	-
Elm Bank	-	-	-	-	-	-	-	4	-	2	-	-	-	11
Hammond Pond	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Stony Brook	19.4139	0.0286	-	-	-	-	-	10	-	-	-	3	5	8
Upper Basin A	-	-	-	1	-	-	1	-	-	-	2	1	-	4
Wilson Mountain	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Region Summary Tables

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Central Region

	Blackstone Valley District	Connecticut Valley District	Quabbin Highlands District
Acres	17755	17265	46761
Lake, Pond and Reservoir, ac	477.65	105.20	438.33
Wetland, ac	1679.33	569.38	2560.14
River and Stream, mi	77.0665	41.9100	97.8868
Regulatory Buffer, ac	4143.15	2170.56	5944.04
Coastline, mi	-	-	-
Certified Vernal Pool, #	34	27	23
Potential Vernal Pool, #	141	81	120
Forest Reserve, ac	-	-	-
Forest Cover, ac	15440.91	15223.06	45981.80
Wildland, ac	48.76	71.85	4.44
Priority Habitat, ac	4991.84	9431.08	4447.77
Estimated Habitat, ac	4723.73	7951.68	4046.71
BioMap Core Habitat, ac	11831.54	10627.68	9173.11
Living Waters Core Habitat, ac	0.72	92.41	45.16
Road and Trail, mi	232.1011	272.6025	395.7261
Rail Corridor, mi	18	10.5	15.2
Parkway, mi	-	-	-
Dam, #	26	8	16
Fire Tower, #	5	4	3
Athletic Field, #	4	4	2
Beach, #	9	4	6
Boat Ramp, #	10	12	5
Parking Lot, #	21	43	34
Picnic Area, #	12	11	15
Playground, #	1	2	-
Structure, #	84	88	133
Pool, #	3	7	3
Rink, #	2	3	1
Boat Club, #	-	-	-
Friends Group, #	3	2	1
Year-round Employee, #	25	27	31
Seasonal Employee, #	71	82	95
Interpretive Program, #	176	-	226
Interpretive Program Attendance, #	6291	-	4261

Harbor Region

	Island District	Shore District
Acres	824	1171
Lake, Pond and Reservoir, ac	6.87	4.56
Wetland, ac	46.44	239.02
River and Stream, mi	8.6060	2.0016
Regulatory Buffer, ac	39.51	313.54
Coastline, mi	26.5331	14.4549
Certified Vernal Pool, #	-	-
Potential Vernal Pool, #	-	1
Forest Reserve, ac	-	-
Forest Cover, ac	162.18	84.19
Wildland, ac	-	-
Priority Habitat, ac	79.92	5.24
Estimated Habitat, ac	36.50	4.99
BioMap Core Habitat, ac	397.26	-
Living Waters Core Habitat, ac	-	0.26
Road and Trail, mi	-	-
Rail Corridor, mi	-	-
Parkway, mi	1.5483	41.0700
Dam, #	-	1
Fire Tower, #	-	-
Athletic Field, #	1	5
Beach, #	10	8
Boat Ramp, #	-	2
Parking Lot, #	13	10
Picnic Area, #	18	11
Playground, #	1	15
Structure, #	159	96
Pool, #	1	5
Rink, #	1	4
Boat Club, #	1	8
Friends Group, #	4	11
Year-round Employee, #	35	45
Seasonal Employee, #	113	133
Interpretive Program, #	-	-
Interpretive Program Attendance, #	-	-

North Region

	Charles District	Coastal District	Fells District
Acres	574	1270	4030
Lake, Pond and Reservoir, ac	1.69	97.86	114.00
Wetland, ac	14.69	702.25	297.60
River and Stream, mi	0.4247	9.5453	10.1854
Regulatory Buffer, ac	247.45	845.58	875.45
Coastline, mi	-	28.6832	1.3806
Certified Vernal Pool, #	-	-	37
Potential Vernal Pool, #	-	-	133
Forest Reserve, ac	-	-	-
Forest Cover, ac	34.08	15.55	2983.91
Wildland, ac	-	-	-
Priority Habitat, ac	-	104.41	1295.82
Estimated Habitat, ac	-	104.41	31.20
BioMap Core Habitat, ac	-	-	2846.52
Living Waters Core Habitat, ac	-	-	-
Road and Trail, mi	-	-	-
Rail Corridor, mi	-	-	-
Parkway, mi	56.8523	29.3576	52.2788
Dam, #	3	-	22
Fire Tower, #	-	-	2
Athletic Field, #	-	9	9
Beach, #	-	5	2
Boat Ramp, #	-	1	3
Parking Lot, #	9	2	33
Picnic Area, #	3	1	14
Playground, #	8	2	10
Structure, #	50	22	46
Pool, #	7	2	5
Rink, #	5	4	4
Boat Club, #	12	1	6
Friends Group, #	11	7	8
Year-round Employee, #	39	38	25
Seasonal Employee, #	33	107	63
Interpretive Program, #	-	-	-
Interpretive Program Attendance, #	-	-	-

Northeast Region

	Atlantic District	Great Brook District	Metro West District
Acres	11087	14197	9648
Lake, Pond and Reservoir, ac	276.88	191.47	1656.79
Wetland, ac	2277.99	1502.50	1418.02
River and Stream, mi	43.5008	28.8658	33.2872
Regulatory Buffer, ac	3194.13	2692.15	3870.52
Coastline, mi	17.6679	-	-
Certified Vernal Pool, #	129	28	9
Potential Vernal Pool, #	228	100	73
Forest Reserve, ac	-	-	-
Forest Cover, ac	9192.36	12602.18	6645.81
Wildland, ac	12.52	7.43	-
Priority Habitat, ac	4407.24	3522.31	2224.04
Estimated Habitat, ac	4379.65	3175.31	1385.84
BioMap Core Habitat, ac	8682.73	2934.17	1228.66
Living Waters Core Habitat, ac	19.44	122.41	559.71
Road and Trail, mi	149.2168	60.4798	48.2599
Rail Corridor, mi	-	11	-
Parkway, mi	-	-	-
Dam, #	13	9	18
Fire Tower, #	3	2	2
Athletic Field, #	5	1	1
Beach, #	6	6	6
Boat Ramp, #	7	5	7
Parking Lot, #	28	20	12
Picnic Area, #	11	11	14
Playground, #	3	1	-
Structure, #	112	90	41
Pool, #	3	1	1
Rink, #	3	1	1
Boat Club, #	-	-	-
Friends Group, #	5	4	4
Year-round Employee, #	34	15	11
Seasonal Employee, #	121	62	54
Interpretive Program, #	385	492	67
Interpretive Program Attendance, #	8678	10856	1800

South Region

	Blue Hills District	West District
Acres	7523	2460
Lake, Pond and Reservoir, ac	117.42	72.46
Wetland, ac	1765.55	731.01
River and Stream, mi	26.8799	8.7601
Regulatory Buffer, ac	2089.09	1251.55
Coastline, mi	-	-
Certified Vernal Pool, #	27	5
Potential Vernal Pool, #	86	42
Forest Reserve, ac	-	-
Forest Cover, ac	5687.68	1464.14
Wildland, ac	-	-
Priority Habitat, ac	6296.31	1089.11
Estimated Habitat, ac	5742.17	304.73
BioMap Core Habitat, ac	5856.35	424.54
Living Waters Core Habitat, ac	-	0.62
Road and Trail, mi	-	19.4139
Rail Corridor, mi	-	-
Parkway, mi	21.7003	25.2946
Dam, #	3	2
Fire Tower, #	2	2
Athletic Field, #	-	14
Beach, #	-	-
Boat Ramp, #	-	2
Parking Lot, #	20	2
Picnic Area, #	7	4
Playground, #	2	6
Structure, #	95	28
Pool, #	1	2
Rink, #	2	4
Boat Club, #	-	-
Friends Group, #	2	8
Year-round Employee, #	27	22
Seasonal Employee, #	48	28
Interpretive Program, #	76	12
Interpretive Program Attendance, #	4919	456

Southeast Region

	Cape Cod District	South Coast District
Acres	28799	19995
Lake, Pond and Reservoir, ac	958.42	562.30
Wetland, ac	1725.88	3764.23
River and Stream, mi	26.0877	42.6115
Regulatory Buffer, ac	3426.32	4931.10
Coastline, mi	37.5958	17.4013
Certified Vernal Pool, #	21	23
Potential Vernal Pool, #	167	177
Forest Reserve, ac	-	-
Forest Cover, ac	23310.11	17119.49
Wildland, ac	108.37	-
Priority Habitat, ac	22293.32	6086.99
Estimated Habitat, ac	11683.76	5238.92
BioMap Core Habitat, ac	27307.32	16294.17
Living Waters Core Habitat, ac	405.74	962.54
Road and Trail, mi	57.4939	181.3448
Rail Corridor, mi	22	4
Parkway, mi	-	-
Dam, #	2	18
Fire Tower, #	13	7
Athletic Field, #	-	3
Beach, #	3	9
Boat Ramp, #	2	4
Parking Lot, #	58	20
Picnic Area, #	14	1
Playground, #	3	1
Structure, #	249	108
Pool, #	-	4
Rink, #	1	5
Boat Club, #	-	-
Friends Group, #	8	7
Year-round Employee, #	44	34
Seasonal Employee, #	125	119
Interpretive Program, #	302	224
Interpretive Program Attendance, #	8477	11573

West Region

	Central Berkshire District	North Berkshire District	South Berkshire District
Acres	44936	59661	46664
Lake, Pond and Reservoir, ac	737.37	563.71	1726.74
Wetland, ac	2137.51	1041.65	2781.75
River and Stream, mi	98.3044	159.4139	93.0902
Regulatory Buffer, ac	5428.32	5666.03	7093.53
Coastline, mi	-	-	-
Certified Vernal Pool, #	2	9	7
Potential Vernal Pool, #	47	101	58
Forest Reserve, ac	8057.92	19379.81	10100.23
Forest Cover, ac	42756.38	56545.89	42622.23
Wildland, ac	756.89	3427.56	682.50
Priority Habitat, ac	2453.15	19850.70	9944.75
Estimated Habitat, ac	2197.34	5971.39	9780.97
BioMap Core Habitat, ac	17338.98	31701.53	14839.73
Living Waters Core Habitat, ac	82.16	257.50	1025.91
Road and Trail, mi	484.0142	713.3302	301.5425
Rail Corridor, mi	-	11	-
Parkway, mi	-	-	-
Dam, #	15	11	17
Fire Tower, #	2	4	4
Athletic Field, #	-	2	7
Beach, #	4	4	8
Boat Ramp, #	6	5	8
Parking Lot, #	19	26	-
Picnic Area, #	3	4	-
Playground, #	-	-	-
Structure, #	69	103	75
Pool, #	-	-	-
Rink, #	-	1	-
Boat Club, #	-	-	-
Friends Group, #	-	3	1
Year-round Employee, #	15	19	15
Seasonal Employee, #	37	35	34
Interpretive Program, # *	192	136	102
Interpretive Program, # *	4237	1368	505

* Interpretive program and attendance data from 2007.

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Statewide Summary Table

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Statewide Summary

	Central Region	Harbor Region	North Region	Northeast Region	South Region	Southeast Region	West Region	Total
Acres	81780	1995	5874	34932	9983	48794	151261	334619
Lake, Pond and Reservoir, ac	1021.18	11.43	213.54	2125.10	189.88	1520.73	3027.81	8109.67
Wetland, ac	4808.84	285.46	1014.53	5198.51	2496.56	5490.10	5960.91	25254.91
River and Stream, mi	216.8633	10.6075	20.1555	105.6539	35.6400	68.6992	350.8085	808.4279
Regulatory Buffer, ac	12257.74	353.05	1968.47	9756.79	3340.65	8357.42	18187.87	54221.99
Coastline, mi	-	40.9880	30.0638	17.6679	-	54.9972	-	143.7169
Certified Vernal Pool, #	84	-	37	166	32	44	18	381
Potential Vernal Pool, #	342	1	133	401	128	344	206	1555
Forest Reserve, ac	-	-	-	-	-	-	37537.96	37537.96
Forest Cover, ac	74645.78	246.37	3033.54	28440.35	7151.82	40429.60	141924.50	295871.96
Wildland, ac	125.05	-	-	19.95	-	108.37	4866.96	5120.33
Priority Habitat, ac	18870.69	85.17	1400.23	10153.59	7385.42	28380.31	32248.60	98524.01
Estimated Habitat, ac	16722.12	41.49	135.61	8940.80	6046.91	16922.69	17949.70	66759.32
BioMap Core Habitat, ac	31632.34	397.26	2846.52	12845.56	6280.89	43601.50	63880.23	161484.30
Living Waters Core Habitat, ac	138.29	0.26	-	701.56	0.62	1368.28	1365.57	3574.58
Road and Trail, mi	900.4297	-	-	257.9565	19.4139	238.8387	1498.8869	2915.5257
Rail Corridor, mi	43.7	-	-	11	-	26	11	91.7
Parkway, mi	-	42.6183	138.4887	-	46.9949	-	-	228.1019
Dam, #	50	1	25	40	5	20	43	184
Fire Tower, #	12	-	2	7	4	20	10	55
Athletic Field, #	10	6	18	7	14	3	9	67
Beach, #	19	18	7	18	-	12	16	90
Boat Ramp, #	27	2	4	19	2	6	19	79
Parking Lot, #	98	23	44	60	22	78	45	370
Picnic Area, #	38	29	18	36	11	15	7	154
Playground, #	3	16	20	4	8	4	-	55
Structure, #	305	255	118	243	123	357	247	1648
Pool, #	13	6	14	5	3	4	-	45
Rink, #	6	5	13	5	6	6	1	42
Boat Club, #	-	9	19	-	-	-	-	28
Friends Group, #	6	15	26	13	10	15	4	89
Year-round Employee, #	83	80	102	60	49	78	49	501
Seasonal Employee, #	248	246	203	237	76	244	106	1360
Interpretive Program, #	402*	-	-	944	88	526	430**	2390
Interpretive Program Attendance, #	10552*	-	-	21334	5375	20050	6110**	63421

* Interpretive program and attendance data does not include CT Valley District.

** Interpretive program and attendance data from 2007.

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Prioritizing RMPs

A second goal of this Survey was to create a prioritized list of RMPs. The final list, presented in Chapter 7, incorporates information from the prioritized lists developed for natural resources (this Chapter), cultural resources (Chapter 4), recreational activities (Chapter 5) and operation and management considerations (Chapter 6). The first three lists reflect resource types whose protection, promotion and enhancement are specified in the DCR’s mission statement. The following describes steps taken to create the prioritized list of RMPs based on natural resources data.

It is important to note that each part of the five multi-part planning units (Appalachian Trail, Emerald Necklace, Neponset River, Rumney Marsh and Upper Basin) was combined before completing the process steps below. For example, the three parts of the Appalachian Trail Planning Unit (A, B and C) are 550, 591 and 343 acres, respectively. These values were combined to create a 1,484 acre Appalachian Trail RMP.

In order to equitably prioritize the RMPs, the following natural resources variables, were used: 1) percent ACEC, 2) percent priority habitat, 3) percent estimated habitat, 4) percent regulatory buffer and 5) vernal pool density. These variables were chosen because of their value as a statewide indicator of plant and wildlife habitat.

First, each RMP was assigned a rank for each natural resources variable. RMPs with the highest percentage were assigned a rank of one. RMPs with the same percentage were assigned the same rank. For example, the Fowl Meadow RMP contains 94.88% priority habitat – the highest percentage of all the RMPs – so, it was assigned a rank of one for the percent priority habitat variable (see Table 3.1). On the contrary, the Southwest Corridor RMP does not contain any priority habitat (0%) – the same as 14 other RMPs – so, it was assigned a rank of 66 for the percent priority habitat variable.

Table 3.1. Natural resources prioritization process steps.

RMP	% ACEC Rank	% PriHab Rank	% EstHab Rank	% Reg. Buffer Rank	Vernal Pool Density Rank	Total Metric Rank	Final Rank
Fowl Meadow	2	1	1	5	4	13	1
Southwest Corridor	24	66	63	78	68	299	80

Next, a total metric rank was calculated for each RMP by summing the five natural resources variable ranks. So, in the case of the Fowl Meadow RMP (see Table 3.1), a total metric rank of 13 was calculated by adding each natural resources variable rank together ($2 + 1 + 1 + 5 + 4 = 13$). The same is true for the Southwest Corridor RMP ($24 + 66 + 63 + 78 + 68 = 299$).

Finally, the total metric rank was sorted in ascending order to create the final rank for each RMP (see Table 3.2). RMPs with the same total metric rank were assigned the same final rank. In this step, the lowest number is best because it represents an RMP, like the Fowl Meadow RMP, that was assigned a higher rank in each of the natural resources variables. The Southwest Corridor RMP received a final rank of 80 – the lowest ranked RMP – because of its lower ranks in each of the natural resources variables.

Table 3.2. Prioritized list of RMPs, based on natural resources data.

RMP	Rank	RMP	Rank	RMP	Rank
Fowl Meadow	1	Middlesex Fells	28	Monroe	55
J. Harry Rich	2	Chicopee	29	Halibut Point	56
Blue Hills	3	Wells	30	Mount Greylock	57
Borderland	4	Massasoit	31	Otter River	57
Brook Farm	4	Douglas	32	Savoy	57
Fort Phoenix	6	Myles Standish	33	Wilson Mountain	60
Harold Parker	6	Freetown-Fall River	34	Erving	61
Horseneck	6	Upper Basin	34	Leominster	62
Nickerson	9	Walden	34	Dunn Pond	63
Stony Brook	10	CT River Greenway	37	D.A.R.	64
Salisbury Beach	11	Rumney Marsh	38	Carroll Holmes	65
Lawrence Heritage	12	Islands	39	Chestnut Hill	66
Quincy Quarries	13	Willard Brook	39	Wachusett Mountain	66
Great Brook Farm	14	Maudslay	41	Weir River/Nantasket Beach	68
Bradley Palmer	15	Catamount	42	October Mountain	69
Shawme Crowell	16	Elm Bank	42	Quincy Shores	69
Pilgrim	17	Hammond Pond	44	Beartown	71
Robinson	18	Rutland	45	Pittsfield	72
Holyoke Range	19	Breakheart	46	Granville	73
Cochituate	20	F. Gilbert Hills	47	Boston Harbor Islands	74
Wompatuck	20	Lower Basin	48	Dorchester Beaches	75
Mount Washington	22	Emerald Necklace	49	Revere Beach	76
Neponset River	22	Appalachian Trail	50	Weymouth Back River	76
Hopkinton	24	Alewife Brook	51	South Boston Beaches	78
Quinsigamond	24	Mystic River	52	Lynn Shores	79
Waquoit Bay	24	Beaver Brook	53	Southwest Corridor	80
Blackstone Heritage	27	Tolland	54		

Chapter 4. Assessment of Cultural Resources

Cultural resources are places and things that offer evidence of past human activity, are at least 50-years old, and have important historical, cultural, scientific, or technological associations. They are one of three resource types whose protection, promotion, and enhancement are specified in the DCR's mission statement.

A variety of cultural resources occur on DCR properties, including historic districts, sites, buildings, structures, landscapes, objects, ethnographic resources and archaeological resources. Some of these resources are of national or international significance (e.g., Walden Pond), while others are significant at the state or local level. The DCR Office of Cultural Resources (OCR) preserves the cultural heritage of Massachusetts through stewardship of these cultural resources, through training, education and advocacy, and by developing tools to protect historic landscapes. The OCR also contributes to the cultural resources text in RMPs.

Despite the importance of cultural resources, and the DCR's commitment to these resources, there is no single data set that contains information to guide their stewardship. Unlike the natural resources and infrastructure information presented in Chapter 3, there are no statewide digital data to help protect, promote, or enhance cultural resources. Instead, cultural resources data exist as numerous reports, forms and files.

We conducted a survey to assess the cultural resources of every DCR property, and to obtain information needed to prioritize planning units on the basis of cultural resources.

Cultural Resources Survey

Design. A survey was developed to obtain standardized, statewide cultural resources information for both DCR fee-owned properties and DCR held conservation restrictions. (Properties included in this survey are identified in Appendix I.) This survey was initially designed as an expert opinion survey to be completed by OCR staff members. However, OCR staff members modified the surveys and

associated instructions so that all responses were based on reports, files, and correspondence rather than on expert opinion.

Eighteen surveys, one for each DCR district, excluding the Golf Courses District, were provided to OCR staff. Each survey included three questions, one each on the value of, threat to, and amount of knowledge on, each property's cultural resources. These questions, potential answers and associated point values are identified below. (Additional information on questions and potential responses is provided in Appendix III.)

Question 1. *On a scale of 1–10, what is the value of the cultural resources on this property?* This question assessed significance on the basis of National Register (NR) criteria. Potential responses and associated point values include:

1. Unknown
2. None
4. Local
6. State
8. National
10. National Historic Landmark

Question 2. *On a scale of 1–10, what is the threat to the integrity of the cultural resources on this property?* This question assessed threats to the integrity of a resource or the integrity of a potential historic district. Potential responses and associated point values include:

1. Unknown
2. None
4. Low threat
6. Retains integrity
8. Diminished integrity
10. On the cusp of losing integrity

Question 3. *On a scale of 1–10, what is the amount of knowledge of the cultural resources on this property?* This question assessed the type and relative amount of information contained within OCR records. Potential responses and associated point values include:

1. Unknown
2. None
4. 1980 Cultural Resources Inventory (CRI) forms only
6. CRI and Massachusetts Historic Commission (MHC) forms
8. MHC forms and other survey and Cultural Landscape Reports, Building Conditions Assessments, or NR nominations
10. Documentation and planning files

Point values for all three questions were entered into an Excel spreadsheet, by property, to facilitate data exploration and analysis. Those wishing to access this file are directed to: *W:\Planning and Resource Protection\Regional Planning\Regional Planning Shared Documents\RMP Statewide Survey\Cultural Resources Survey Responses.*

Findings. Responses to Question 1 revealed that cultural resources values are presently unknown for approximately one-half of DCR properties (51%, Figure 4.1). An additional 2% of properties are known to have no significant cultural resources. All remaining properties (47%) are eligible for the National Register, although not all are listed. Eighteen percent of properties are significant at the local level; the same percentage is significant at the state level. Only 9% of properties are significant at the national level; this includes all urban parks established prior to 1956 and those properties listed on the National Register of Historic Places with nomination notes indicating a national significance. Eight properties (2%) are, or include, a National Historic Landmark.

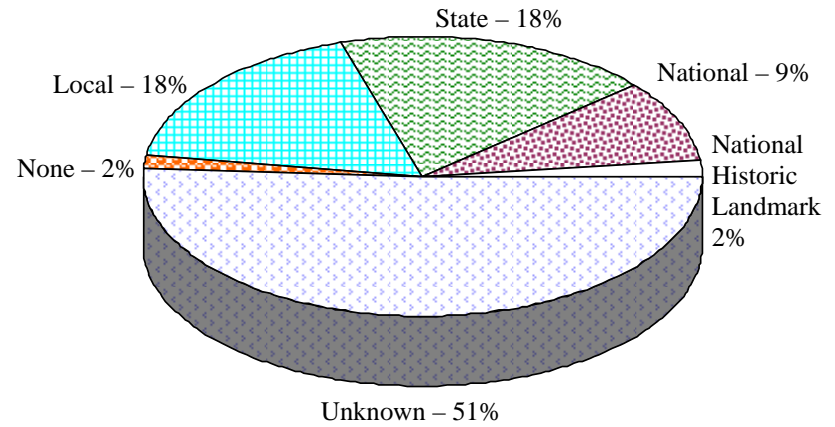


Figure 4.1. Level of significance of the cultural resources on DCR properties, as identified by responses to Question 1. Numbers represent the percentage of DCR properties in a given significance category.

Responses to Question 2 revealed that we lack information on the threats to the integrity of cultural resources at most DCR properties. (Figure 4.2) This reflects all properties with cultural resources of unknown significance, and some properties where the significance is known. One out of five DCR properties (20%) has cultural resources that are intact or mostly intact. This includes those properties where there is little or no threat, as well as properties where threats exist but the area retains its integrity. Nine percent of properties are in the process of losing the integrity of their cultural resources.

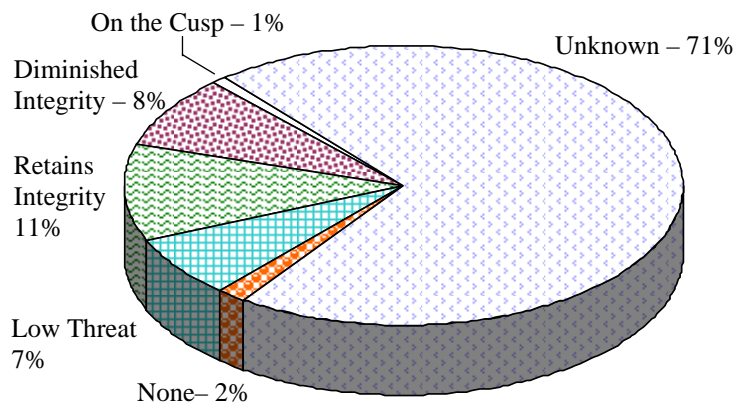


Figure 4.2. Level of threat to the integrity of cultural resources on DCR properties, as identified by responses to Question 2. Numbers represent the percentage of DCR properties at a given threat level.

The OCR has information on the cultural resources of slightly more than one-half of DCR properties. Sources of information include data associated with the 1980 Cultural Resources Inventory, MHC forms, survey reports, Cultural Landscape Reports, Building Conditions Assessments, National Register nomination forms, and planning files. The type, quality and quantity of this information vary greatly among properties. Information on sources of cultural resources information is presented in Figure 4.3.

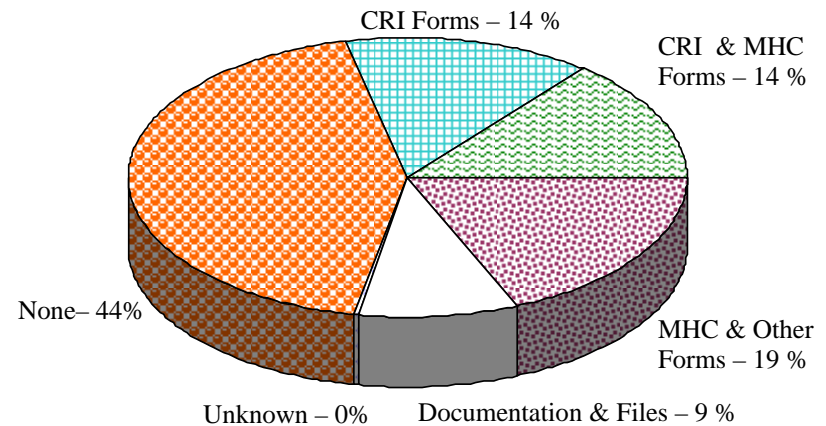


Figure 4.3. Type and relative amount of cultural resources information associated with DCR properties, as identified by responses to Question 3.

Scoring Cultural Resources Values

Responses to the cultural resources survey questions were used to generate cultural resources scores for every property and planning unit. These scores serve as an index to the relative importance each planning unit's cultural resources, from the perspective of prioritizing future RMPs.

Property Scores. Point values associated with Questions 1, 2 and 3 were used to create a cultural resources score for each property. This score was calculated using the following formula:

$$\text{Cultural Resources Score} = Q1 + Q2 + (10-Q3)$$

Where Q1, Q2 and Q3 are the number of points associated with responses to Questions 1, 2 and 3, respectively. Using this approach, properties with high resource values, high threats, and little information receive the highest cultural resources score. Potential scores range from 3–29. Because of the discontinuous nature of each question's point values, not all numbers in this range were possible. Cultural resources scores, and the number of properties associated with each score, are presented in Figure 4.4.

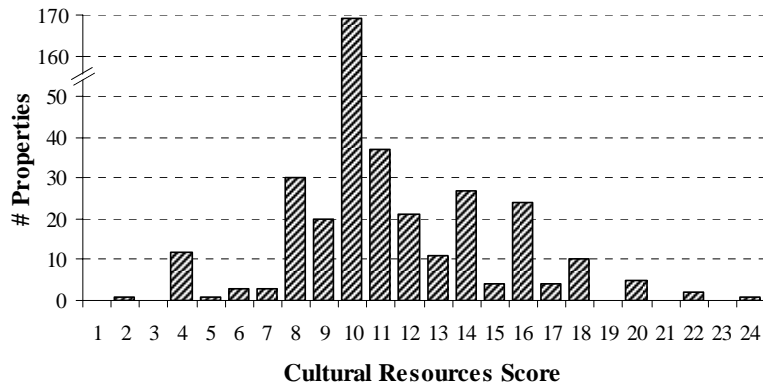


Figure 4.4. Cultural resources scores for DCR properties.

One-hundred and sixty-nine DCR properties (approximately 44%) have a cultural resources score of ten. This includes 158 properties (41%) where the value of, and threat to the integrity of, cultural resources are unknown and there is no information on file with the OCR. These are the properties for which an accurate cultural resources score cannot be determined due to a lack of information. Additional information is needed on these properties. The remaining 11 properties with a cultural resources score of ten represent varying combinations of value, threat and information.

Most categories of DCR lands are represented among those properties with a score of ten and lacking in cultural resources information. Areas that receive little public use, such as properties on which the DCR holds conservation restrictions and Flood Control Sites, have scores of ten; but so too do a variety of forests, parks, reservations, playgrounds, piers and boat ramps (e.g., Gilbert A. Bliss State Forest, Johnny Appleseed State Park, Nasketucket Bay State Reservation).

Planning Unit Scores. Resource Management Plans are prepared for planning units, so cultural resources scores must be identified and considered at this level. Because the number of properties varies

among planning units, from 1–13, planning unit scores cannot be the sum of individual property scores. Planning unit scores must include all properties while accounting for differences in the number of properties per planning unit.

Means and standard deviations were used to describe a planning unit’s cultural resources score (Table 4.1). The mean value is the mathematical average of cultural resources scores for all properties within a planning unit. Standard deviation is a statistical estimator of the dispersal of numbers around the mean; it provides an index of the variability of cultural resources scores within a planning unit. Means and standard deviations were calculated in Excel using the AVERAGE and STDEV functions, respectively. Also included in Table 4.1 is the maximum and minimum cultural resources score for each planning unit, and the number of properties within each planning unit.

Information in Table 4.1 reveals high standard deviations associated with the mean cultural resources scores for several of the planning units. This indicates great variation in cultural resources scores among properties within those units. Because of this variation, mean scores tell us little about a planning unit’s cultural resources.

The observed variation may reflect actual differences in cultural resources or it may reflect the state of our knowledge. A diverse group of properties, some of which have high cultural resources scores while others have low cultural resources scores, would have a high standard deviation. For example, planning units with a mixture of culturally significant and non-significant properties, such as those that include Heritage State Parks, would have high levels of variation. However, most of the observed variability is attributable to the lack of cultural resources information for over one-half of the properties. Only 20 of 86 planning units (23.3%) have information on all properties within the unit. The remaining planning units each have one or more properties that lack cultural resources information. Three planning units, J. Harry Rich, Wilson Mountain, and Islands, lack cultural resources information for all properties.

Table 4.1. Cultural resources scores for planning units. The mean score, standard deviation (SD), minimum score (Min.), maximum score (Max.) and number of properties (*n*) are presented for each planning unit. Data are presented alphabetically by region, district and planning unit.

Region	District	Planning Unit	Mean	SD	Min.	Max.	<i>n</i>
Central	Blackstone	Blackstone Heritage	11.80	2.05	10	15	5
		Douglas	12.00	N/A	12	12	1
		Quinsigamond	9.00	2.45	4	10	6
		Rutland	9.78	1.20	8	12	9
		Wells	9.33	2.24	4	12	9
	CT Valley	Chicopee	10.40	3.29	8	16	5
		CT River Greenway	10.08	1.38	8	13	12
		Holyoke Range	10.71	3.40	4	14	7
		Robinson	13.00	4.24	10	16	2
	Quabbin Highlands	Carroll Holmes	11.17	1.94	9	14	6
		Dunn Pond	11.00	1.41	10	12	2
		Erving	11.43	2.07	10	16	7
		Leominster	12.00	3.46	10	16	3
		Otter River	10.38	1.04	9	13	13
		Wachusett Mountain	11.50	0.71	11	12	2
Harbor	Island	Boston Harbor Islands	20.00	N/A	20	20	1
		Weir River/Nantasket Beach	12.50	3.00	10	16	4
		Weymouth Back River	9.67	0.58	9	10	3
	Shore	Dorchester Beaches	10.50	1.51	8	13	8
		Emerald Necklace A	12.00	2.83	10	14	2
		Neponset River B	10.00	3.27	6	14	4
		Quincy Shores	12.50	3.00	10	16	4
		South Boston Beaches	13.00	4.24	10	16	2
		Southwest Corridor	12.00	2.83	10	14	2
North	Charles	Emerald Necklace B	18.00	N/A	18	18	1
		Lower Basin	11.71	2.93	10	18	7
		Upper Basin B	14.00	5.66	10	18	2
	Coastal	Lynn Shores	10.83	3.31	7	17	6
		Revere Beach	11.83	4.02	10	20	6
		Rumney Marsh A	9.50	0.58	9	10	4

Table 4.1. Cultural resources scores for planning units. Continued.

Region	District	Planning Unit	Mean	SD	Min.	Max.	n
North (continued)	Fells	Alewife Brook	20.00	N/A	20	20	1
		Beaver Brook	14.00	0.00	14	14	2
		Breakheart	15.50	3.54	13	18	2
		Middlesex Fells	17.00	4.36	10	22	5
		Mystic River	11.43	2.51	10	16	7
		Rumney Marsh B	11.00	N/A	11	11	1
Northeast	Atlantic	Bradley Palmer	10.75	2.38	8	16	8
		Halibut Point	10.00	0.00	10	10	2
		Harold Parker	12.50	4.95	9	16	2
		Lawrence Heritage	11.33	2.31	10	14	3
		Maudslay	12.00	2.00	10	14	3
		Salisbury Beach	10.33	2.08	8	12	3
	Great Brook	Great Brook Farm	10.29	4.64	5	20	7
		J. Harry Rich	7.00	4.24	4	10	3
		Walden	15.50	2.12	14	17	2
		Willard Brook	9.00	5.76	2	18	6
	Metro West	Cochituate	9.83	2.40	7	14	6
Hopkinton		10.40	1.43	9	14	10	
South	Blue Hills	Blue Hills	12.67	4.62	10	18	3
		Fowl Meadow	16.00	1.41	15	17	2
		Neponset River A	16.00	2.83	14	18	2
		Quincy Quarries	16.00	N/A	16	16	1
	West	Brook Farm	13.40	4.77	8	20	5
		Chestnut Hill	10.00	N/A	10	10	1
		Elm Bank	10.50	1.00	10	12	4
		Hammond Pond	11.00	1.73	10	13	3
		Stony Brook	11.00	2.38	8	14	7
		Upper Basin A	11.75	3.50	8	16	4
Wilson Mountain	9.00	1.41	8	10	2		

Table 4.1. Cultural resources scores for planning units. Continued.

Region	District	Planning Unit	Mean	SD	Min.	Max.	n
Southeast	Cape Cod	Islands	7.50	3.50	8	16	4
		Myles Standish	12.83	2.56	10	16	2
		Nickerson	13.00	4.24	10	16	8
		Pilgrim	10.00	1.07	8	12	6
		Shawme Crowell	10.50	2.39	6	14	8
		Waquoit Bay	9.80	0.45	9	10	5
		Wompatuck	10.00	2.83	8	14	4
	South Coast	Borderland	14.00	N/A	14	14	1
		F. Gilbert Hills	9.80	1.30	8	11	5
		Fort Phoenix	13.75	6.85	10	24	4
		Freetown-Fall River	12.58	4.86	8	22	7
		Horseneck	10.80	3.03	8	16	5
		Massasoit	10.17	0.41	10	11	6
		West	Central Berkshire	Appalachian Trail B	11.00	N/A	11
D.A.R.	10.30			2.21	8	16	10
October Mountain	9.67			1.53	8	11	3
Pittsfield	11.00			3.28	8	18	9
North Berkshire	Appalachian Trail C		11.00	N/A	11	11	1
	Catamount		10.50	0.55	10	11	6
	Mount Greylock		10.75	2.50	8	14	4
	Monroe		10.57	1.72	9	14	7
	Savoy		11.83	3.31	9	16	6
South Berkshire	Appalachian Trail A		15.00	N/A	15	15	1
	Beartown		8.89	4.04	4	14	9
	Granville		11.00	N/A	11	11	1
	Mount Washington		13.75	4.50	7	16	4
	Tolland		8.67	4.46	4	16	6

An accurate description of the cultural resources values of properties, planning units, and the entire DCR system, requires additional information. Emphasis should be placed on obtaining information on the 195 properties for which the cultural resources value are unknown, and on the additional 65 properties that have cultural resources information but lack information on threats to those resources. Given the extent of the missing information, it will take years before we have an accurate, comprehensive understanding of the cultural resources of DCR's fee-owned properties and properties on which the DCR holds a conservation restriction.

Prioritizing RMPs. One outcome of the Statewide Survey is a prioritized list of RMPs (Chapter 7). This list is based upon the integration of four prioritized lists developed from natural resources (Chapter 3), cultural resources (this Chapter), recreational activities (Chapter 5) and operation and management considerations (Chapter 6).

As indicated above, mean scores do not accurately reflect the value of a planning unit's cultural resources. Because of this, mean scores were not used to generate a prioritized cultural resources list. Instead, the highest score for a property within a planning unit (i.e., the maximum score, Table 4.1) was used to prioritize.

There are strengths and weaknesses in using the maximum score for prioritization. The chief strength is that these data exist for nearly all planning units and are less sensitive to a lack of cultural resources information than are mean scores. As a result, maximum scores typically reflect cultural resources and not a lack of knowledge about a property. In addition, the maximum score represents the property with the most important cultural resources in a planning unit. The chief weakness is that our prioritization is based on only one property, rather than all properties in the planning unit. As a result, the maximum score approach does not accurately reflect the cultural resources of the entire planning unit. For example, the Beaver Brook Planning Unit has a maximum score of 14, and includes two properties with that score. The Lawrence Heritage Planning Unit also has a maximum score of 14, but includes only one property with a

score of 14. The maximum score approach ranks both planning units equally, because only the single highest score is considered.

Although flawed, the maximum score approach is the best approach available. Once data are available for all properties, an alternative approach to scoring should be identified and the prioritization recalculated.

A prioritized list of RMPs is presented in Table 4.2. Ranks were assigned by first sorting planning units by maximum score. The planning unit with the greatest maximum score was then assigned a rank of one; the planning unit with the second greatest maximum score was assigned a rank of two, and so on. Properties with the same maximum score were assigned the same rank. For example, both the Freetown-Fall River and Middlesex Fells Planning Units have maximum values of 22, and both RMPs are assigned a rank of two (Table 4.2).

Five RMPs include multiple planning units, they are: Appalachian Trail, Emerald Necklace, Neponset River, Rumney Marsh, and Upper Basin. These RMPs were ranked using the highest score for any of the related planning units included in the RMP. For example, the Appalachian Trail was ranked on the basis of the Appalachian Trail A Planning Unit, which has a maximum score of 15, rather than on the Appalachian Trail B or Appalachian Trail C Planning Units, both of which have maximum scores of 11.

Table 4.2. Prioritized list of RMPs, based on cultural resources assessment.

RMP	Rank	RMP	Rank	RMP	Rank
Fort Phoenix	1	Mystic River	19	CT River Greenway	55
Freetown-Fall River	2	Pilgrim	19	Dorchester Beaches	53
Middlesex Fells	2	Quincy Quarries	19	Hammond Pond	53
Alewife Brook	4	Quincy Shores	19	Otter River	53
Boston Harbor Islands	4	Robinson	19	Douglas	59
Brook Farm	4	Savoy	19	Dunn Pond	59
Great Brook Farm	4	South Boston Beaches	19	Elm Bank	59
Revere Beach	4	Tolland	19	Nickerson	59
Blue Hills	9	Weir River/Nantasket Beach	19	Rutland	59
Breakheart	9	Appalachian Trail	37	Salisbury Beach	59
Lower Basin	9	Blackstone Heritage	37	Wachusett Mountain	59
Neponset River	9	Beartown	39	Wells	59
Pittsfield	9	Beaver Brook	39	Catamount	67
Upper Basin	9	Borderland	39	F. Gilbert Hills	67
Willard Brook	9	Carroll Holmes	39	Granville	67
Fowl Meadow	16	Cochituate	39	Massasoit	67
Lynn Shores	16	Emerald Necklace	39	October Mountain	67
Walden	16	Holyoke Range	39	Rumney Marsh	67
Bradley Palmer	19	Hopkinton	39	Chestnut Hill	73
Chicopee	19	Lawrence Heritage	39	Halibut Point	73
D.A.R.	19	Maudslay	39	Islands	73
Erving	19	Monroe	39	J. Harry Rich	73
Harold Parker	19	Mount Greylock	39	Quinsigamond	73
Horseneck	19	Shawme Crowell	39	Waquoit Bay	73
Leominster	19	Southwest Corridor	39	Weymouth Back River	73
Mount Washington	19	Stony Brook	39	Wilson Mountain	73
Myles Standish	19	Wompatuck	39		

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Chapter 5. Assessment of Recreational Activities

Recreation is the third and final resource type whose protection, promotion, and enhancement is specified in the DCR's mission statement. As such, it is the third metric used to prioritize RMPs.

Statewide data are lacking on the number of recreationists using DCR properties, their satisfaction with these experiences, and their impacts on natural or cultural resources. In the absence of such information, the diversity of recreational activities within planning units was used for prioritization. This information was obtained by surveying district managers.

District Manager Survey. Surveys were administered in face-to-face interviews with DSPR and DUPR district managers. Surveys were conducted at the district manager level because of their excellent working knowledge of the properties under their jurisdiction and because all DCR properties could be covered within a manageable number of meetings (i.e., 18).

The District Manager Survey included two separate but related topics, recreational activities and management issues. This chapter considers only those survey results related to recreational activities. Survey results related to management issues have been incorporated into the operation and management considerations metric (Chapter 6).

District managers were provided a comprehensive list of authorized recreational activities that occur throughout the DCR system, and asked to identify those that occur at each property under their jurisdiction. A copy of the survey is included in Appendix IV, and a full listing of responses is available at *W:\Planning and Resource Protection\Regional Planning\Regional Planning Shared Documents\RMP Statewide Survey\District Manager Survey Responses*.

“Costs” of Recreation Management. As mentioned previously, the intensity of visitor use at a given property could not be considered because of the absence of reliable, statewide data. In their absence,

we characterized the relative level of effort and responsibility associated with managing various recreational activities by assigning a point value of one, two, three, or four to each activity, with four representing the most management intensive recreational activity.

Recreational activities and their associated point values are shown in Table 5.1. Activities that require high levels of staffing (e.g., athletic field maintenance) were typically assigned point values of three, while passive recreational activities were typically assigned a point value of one. Activities with intermediate staffing and/or facility maintenance needs were assigned a point value of two. Camping and OHV use were identified by field operations staff as the most management intensive recreational activities permitted on DCR properties; they were assigned a point value of four.

Swimming is a unique activity, in that it received two different point scores. Guarded swimming was assigned a point value of three, because of the staffing required to operate a safe waterfront area. In contrast, unguarded swimming was assigned a point value of one because of the absence of waterfront safety staff or pool maintenance. The *2008 Waterfront Services Schedule* (<http://www.mass.gov/dcr/recreate/waterfront.htm>) was used to determine which DCR swimming facilities were guarded versus unguarded.

Prioritizing RMPs. Recreational activity point values were assigned to each planning unit. If a recreational activity occurred on any property within a planning unit, the associated point value was assigned to that unit. For example, field sports occur at Cochituate State Park, so the entire Cochituate planning unit was assigned three points for that activity. A planning unit's total point value was calculated by adding together point values for all recreational activities that occur in that unit.

Most RMPs contain only a single planning unit. Because of this, the total point score for most RMPs is the same as the total point score

for their associated planning unit. However, this does not hold true when an RMP contains multiple planning units.

Five RMPs include multiple planning units (i.e., Appalachian Trail, Emerald Necklace, Neponset River, Rumney Marsh, and Upper Basin). For each of these RMPs the associated planning units were merged. For example, the Rumney Marsh A and Rumney Marsh B planning units were combined to form the Rumney Marsh RMP. If a recreational activity occurred within one of the component planning units, the RMP was assigned the point value for that activity.

RMPs were then sorted in descending order, on the basis of total point value. The RMP with the highest point value was assigned the highest rank (i.e., 1). RMPs with the same total point value were assigned the same rank.

A prioritized list of RMPs, based on recreational activities, is presented in Table 5.2. Information in this table is integrated with prioritized lists derived from natural resource data (Chapter 3), cultural resource data (Chapter 4) and operation and management considerations (Chapter 6) to produce an overall prioritized list of RMPs. This overall list is presented in Chapter 7.

Table 5.1. Recreational activities and associated point values.

Recreational Activity	Point Value
Field sports	3
Court sports (e.g., tennis, basketball)	1
Playground/tot lot activities	2
Special events (e.g., concerts, Earth Day)	3
Nature study (e.g., bird watching)	1
Interpretive programs	2
Universal access programs or facility use	1
Picnicking	2
Swimming (guarded)	3
Swimming (unguarded)	1
Fishing	1
Boating, motorized	2
Boating, non-motorized	1
Camping (all forms)	4
Hunting	1
Trails use, non-motorized	-
Walking/jogging/running	1
Hiking	1
Horseback riding	2
Biking, pavement	1
Biking, mountain	2
Pet walking	1
Cross country skiing	1
Snowshoeing	1
Trails use, motorized	-
Snowmobiling	2
OHV use	4
Geocaching/letterboxing/questing	1
Other (e.g., rock climbing, ice skating, downhill skiing)	3

Table 5.2. Prioritization of RMPs, based on the Recreational Activities section of the District Manager Survey.

RMP	Rank	RMP	Rank	RMP	Rank
Beartown	1	Holyoke Range	28	Upper Basin	51
Blue Hills	1	Mount Greylock	28	Wachusett Mountain	51
Breakheart	3	Salisbury Beach	28	CT River Greenway	57
Massasoit	3	Stony Brook	28	Weymouth Back River	57
Tolland	3	Waquoit Bay	28	Brook Farm	59
D.A.R.	6	Beaver Brook	33	Robinson	59
Freetown-Fall River	6	Borderland	33	Elm Bank	61
Harold Parker	6	Bradley Palmer	33	Mount Washington	61
Rutland	6	Leominster	33	Alewife Brook	63
Horseneck	10	Weir River/Nantasket Beach	33	Granville	63
Middlesex Fells	10	Blackstone Heritage	38	Catamount	65
Myles Standish	10	Carroll Holmes	38	Dorchester Beaches	65
Pittsfield	10	Fort Phoenix	38	Quincy Quarries	65
Cochituate	14	Lynn Shores	38	Rumney Marsh	65
Hopkinton	14	Neponset River	38	Islands	69
Erving	16	Otter River	38	Quincy Shores	69
Mystic River	16	Lawrence Heritage	44	Walden	71
Nickerson	16	F. Gilbert Hills	45	Chestnut Hill	72
Great Brook Farm	19	Quinsigamond	45	Southwest Corridor	72
Shawme Crowell	19	Revere Beach	45	Halibut Point	74
Wompatuck	19	Boston Harbor Islands	48	J. Harry Rich	74
Douglas	22	Chicopee	48	Hammond Pond	76
Lower Basin	22	October Mountain	48	Fowl Meadow	77
Monroe	22	Dunn Pond	51	Appalachian Trail	78
Savoy	22	Maudslay	51	Wilson Mountain	79
Wells	22	Pilgrim	51	Emerald Necklace	80
Willard Brook	22	South Boston Beaches	51		

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Chapter 6. Operation and Management Considerations

A prioritized list of RMPs, based on the three resource types specified in the DCR's mission statement, was developed and reviewed by DCR staff members. This prioritization combined the rankings for each of the three metrics previously discussed (natural resources, cultural resources and recreational activities; see Chapters 3-5, respectively), and resulted in a preliminary "overall" prioritization. This preliminary prioritization was presented to DCR senior staff, regional directors, district managers and Bureau of Planning and Resource Protection staff members at a series of meetings convened in late 2008. From these meetings emerged the consensus that additional factors, important to the operation and management of a park, should be incorporated into the prioritization. A fourth metric, consisting of several individual variables was developed.

Twenty-five variables were considered for possible inclusion in the operation and management considerations metric. These variables were identified by DCR staff members at the meetings in late 2008, or by senior staff at subsequent meetings in early 2009. Possible variables addressed such topics as abutter issues, forestry, funding, legal obligations, park management, partnerships, planning, socioeconomic factors and visitation. A list of all variables considered is provided in Appendix V.

Determination of which variables were included in the operation and management considerations metric was based on data standards used throughout the Statewide Survey. First, data had to be applicable to the entire State; variables based on data from a single district, region, multiple districts or regions, or a division were not considered. Next, data had to be consistent. This means that for each variable all data were collected in the same manner. In addition, data had to be recent to be included in the metric. Finally, the value of a variable had to differ among RMPs. Applying these criteria resulted in eight variables being included in the operation and management considerations metric.

Variables Included in the Metric

Obligations to Remediate Known Environmental Hazards.

Massachusetts General Law, Chapter 21E (i.e., the Massachusetts Superfund law) identifies contaminated properties and specifies a procedural approach to, and timeline for, remediating these sites. The presence of contaminants and the associated monitoring and clean-up activities have the potential to affect a property's natural, cultural and recreational resources. Planning units with contaminated sites, referred to as 21E sites, would benefit from an RMP that identifies the contaminants, their potential impacts on resources, and desired resource conditions after the clean-up. Because of this, planning units with 21E sites should be considered for RMPs ahead of those that lack such sites.

Planning units with contaminated sites were identified using the Mass DEP Tier Classified Oil and/or Hazardous Material Sites (MGL C.21E) Datalayer (www.mass.gov/mgis/c21e.htm). Twenty-seven contaminated sites were identified on DCR properties.

Points were assigned based on the number of open, tier classified 21E sites within a planning unit (Table 6.1).

Funding for Implementation. Although RMPs contain recommendations, funding may not be available to implement those recommendations. Parks with dedicated funds have an increased capacity to implement an RMP's recommendations. Because of this, planning units with dedicated funds should be considered for RMPs ahead of those that lack such funds.

Locations of iron rangers (i.e., cylindrical metal donation "boxes") were obtained from the DCR's Conservation Trust web page (www.mass.gov/dcr/stewardship/trust/ironRangerLocations.htm). Information on other property-specific dedicated funds was provided by Stephen Scapicchio, Acting Revenue Director.

Points were assigned on the basis of funding source (Table 6.1).

Visitation - Scale of Attraction. Parks with high rates of visitation may be subjected to greater impacts to their resources and, therefore, require a greater level of maintenance and visitor services than parks with low visitation. Because of this, heavily used parks should be considered for RMPs ahead of those with lower levels of visitation.

In the absence of statewide, systematic visitor counts, the DCR's Benchmark data were used as an index to the relative level of visitation. Benchmark data were generated in 2005, and reflect the DCR's senior staff's estimate of the level of visitation to properties. Visitation ranged from one to five, with one being the lowest and five the highest level of visitation.

Points were assigned to individual properties directly from the Benchmark data set (Table 6.1). The maximum score for any property within a planning unit was assigned to the entire planning unit.

Management Challenges. Properties facing multiple management challenges (e.g., staffing, public safety) are presumed to face greater impacts to their resources and operations than are those properties that face few management challenges. Because of this, the relative number of management challenges may be considered an indicator of the relative urgency of need for an RMP.

Information on the number of management challenges that occur at each property was obtained from the District Manager Survey (see Chapter 5). A copy of the survey is included in Appendix IV, and a full listing of responses is available at *W:\Planning and Resource Protection\Regional Planning\Regional Planning Shared Documents\RMP Statewide Survey\District Manager Survey Responses*.

Points were assigned on the basis of the number of primary management concerns identified by district managers for all properties within a planning unit (Table 6.1).

Capital Improvements. Capital projects can increase the protection of natural and cultural resources, enhance a property's recreational facilities and improve infrastructure. RMPs identify needed capital

projects and direct such projects to locations consistent with a planning unit's Land Stewardship Zoning. The integration of capital improvements and resource management planning can maximize the benefits to DCR properties. However, for this to occur, RMPs must be produced far enough in advance of the planned project to influence its timing, location and design. Because of this, planning units containing properties with future planned capital projects should be considered for RMPs ahead of those that do not.

Information on planned capital projects was obtained from the DCR's approved Capital Spending Plan (file FY09 Capital Spending Plan CSP 20081223.xls). Projects were considered if they met two criteria: 1) projects must occur in the future (i.e., FY10-13) so that an RMP can be prepared prior to the start of construction; and 2) projects must involve new construction rather than the replacement, in kind, of existing structures and other infrastructure.

Points were assigned on the basis of whether or not a future capital project was approved for a property (Table 6.1).

Previous Plans. A review of previous planning documents identified 12 planning units with a recent master or management plan for one or more properties in that unit (Appendix VI). Such plans may form the basis for much of an RMP. Because of this, planning units with recent master or management plans should be given priority for RMPs.

Points were assigned on the basis of the existence of a plan, and the geographic scope of that plan (Table 6.1).

Environmental Justice. Environmental Justice (EJ) is "the equal protection and meaningful involvement of all people with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies and the equitable distribution of environmental benefits" (www.mass.gov/Eoeea/docs/eea/ej/ej_policy_english.pdf). The Executive Office of Energy and Environmental Affairs and its agencies shall "more effectively create, restore, and maintain open spaces located in neighborhoods where EJ populations reside." Preparation of RMPs is one means by

which this may be accomplished. Because of this, planning units that contain EJ populations should be considered for RMPs ahead of those that do not.

Planning units with Environmental Justice populations were identified using the Environmental Justice Population data layer (www.mass.gov/mgis/cen2000_ej.htm).

Points were assigned based on whether or not any portion of a planning unit fell within an EJ population neighborhood (Table 6.1).

Land Acquisition Target Areas. Land acquisition is one tool with which the DCR protects “our common wealth of natural, cultural and recreational resources.” Newly acquired lands typically lack management goals and strategies, and create new management challenges for DCR field staff. In contrast, existing DCR properties without RMPs often have *de facto* management goals and strategies in place. Because of this, planning units in which ongoing land acquisition occurs should be considered for RMPs ahead of those that do not.

Land acquisition target areas were identified by the DCR’s Land Protection Program (LPP) staff members. In early 2009, a meeting was convened to update the DCR’s land acquisition target areas. LPP staff members were provided district maps that depicted Areas of Critical Environmental Concern, Priority Habitat, Estimated Habitat, roads, town boundaries, hydrology, open space, rail corridors and topography. A total of 49 land acquisition target areas were drawn on these maps, and the boundaries of these areas were digitized into a GIS datalayer. A list of DCR properties within the draft target areas was developed, and subsequently reviewed and refined by the LPP staff members.

Points were assigned on the basis of whether or not any portion of a planning unit fell within a land acquisition target area (Table 6.1).

Prioritizing RMPs. Operation and management considerations point values were totaled for each RMP. RMPs were then sorted in descending order, on the basis of total point value. The RMP with

the highest point value was assigned the highest rank (i.e., 1). RMPs with the same total point value were assigned the same rank.

A prioritized list of RMPs, based on the operation and management considerations metric, is presented in Table 6.2. Information in this table is integrated with prioritized lists derived for natural resources, cultural resources and recreational activities (Chapters 3-5, respectively) to produce an overall prioritized sequence of RMPs. This sequence is presented in Chapter 7.

Table 6.1. Operation and management considerations variables and associated point values.

Variable	Point Value
Obligations to Remediate Known Environmental Hazards	
1 active tier classified site	1
2 active tier classified sites	2
3 active tier classified sites	3
4 active tier classified sites	4
Funding for Implementation	
1 or more Iron Rangers	2
Other dedicated funding source	5
Visitation (Scale of Attraction)	
Benchmark value of 1	1
Benchmark value of 2	2
Benchmark value of 3	3
Benchmark value of 4	4
Benchmark value of 5	5
Management Challenges	
0 Primary challenges	0
1 Primary challenges	1
2 or 3 Primary challenges	2
4 or 5 Primary challenges	3
6 or 7 Primary challenges	4
8 or more Primary challenges	5
Capital Improvements	
A new capital project scheduled for FY10-13	5
Previous Plans	
A recent plan exist for 1 or more properties, but not entire planning unit	2
A recent plan exist for all properties in the planning unit	5
Environmental Justice	
Any portion of planning unit within an Environmental Justice area	5
Land Acquisition	
Any portion of planning unit within land acquisition target area	5

Table 6.2. Prioritization of RMPs based on operation and management considerations.

RMP	Rank	RMP	Rank	RMP	Rank
Fowl Meadow	1	South Boston Beaches	27	Carroll Holmes	55
Lower Basin	1	Great Brook Farm	29	Chestnut Hill	55
Mount Greylock	1	Southwest Corridor	29	D.A.R.	55
Beaver Brook	4	Horseneck	31	Middlesex Fells	55
Boston Harbor Islands	4	Lawrence Heritage	31	Mount Washington	55
Hopkinton	4	Nickerson	31	October Mountain	55
Myles Standish	4	Stony Brook	31	Beartown	61
Freetown-Fall River	8	Waquoit Bay	31	Dunn Pond	61
Holyoke Range	9	Willard Brook	31	F. Gilbert Hills	61
Neponset River	9	Bradley Palmer	37	Massasoit	61
Weir River/Nantasket Beach	9	Breakheart	37	Quincy Shores	61
Blackstone Heritage	12	Chicopee	37	Otter River	66
Blue Hills	12	Cochituate	37	Rutland	66
CT River Greenway	12	Douglas	37	Walden	66
Lynn Shores	12	Erving	37	Brook Farm	69
Rumney Marsh	12	Mystic River	37	Elm Bank	70
Salisbury Beach	12	Pittsfield	37	Islands	70
Appalachian Trail	18	Quinsigamond	37	Wells	70
Emerald Necklace	18	Savoy	37	Maudslay	73
Fort Phoenix	18	Tolland	37	Borderland	74
Leominster	18	Upper Basin	37	Hammond Pond	74
Monroe	18	Wachusett Mountain	37	Quincy Quarries	76
Pilgrim	18	Dorchester Beaches	50	Catamount	77
Revere Beach	18	Halibut Point	50	Granville	77
Shawme Crowell	18	Harold Parker	50	J. Harry Rich	79
Wompatuck	18	Robinson	50	Wilson Mountain	80
Alewife Brook	27	Weymouth Back River	50		

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Chapter 7. Prioritizing Resource Management Plans

Resource Management Plans, and the process of preparing them, have changed. Early efforts varied in content and geographic scope, and properties in these plans were selected opportunistically rather than through a structured process. Over time, the concept of planning units, rather than individual properties, was adopted and a standard format and set of contents emerged. Although the structure of RMPs was standardized, the selection of which plan to prepare was not.

A prioritized sequence of RMPs creates predictability by permitting the development of a long-term schedule of RMP Program activities. Such a schedule enables RMP Program staff, Office of Cultural Resources staff, administrative and field operations staff and other DCR personnel who participate in the RMP planning process to schedule their time so that people and information are available when needed; thereby maximizing efficiency. In addition, a prioritized list provides a clear sequence that may be communicated to elected officials and other stakeholders regarding planning activities for local DCR properties.

In order to proactively determine the sequence of future RMPs, a prioritized list was developed. Prioritization was based on natural resources, cultural resources, recreational activities and operation and management considerations; see Chapters 3, 4, 5 and 6, respectively. The first three metrics were selected because they reflect the DCR's mission "to protect, promote, and enhance our common wealth of natural, recreational, and cultural resources." The fourth was selected because it reflects a variety of factors that influence both the immediate and long-term operation of parks.

An overall prioritization rank was determined for each RMP. Ranks from the individual metrics (i.e., natural resources, cultural resources, recreational activities and operation and management considerations) were summed for each RMP, and the RMP with the lowest value was assigned an overall rank of one. The RMP with the second lowest value was assigned a rank of two, and so on, until all RMPs were assigned a rank. RMPs with the same value were

assigned the same rank. A prioritized list of RMPs is presented in Table 7.1.

Once prioritized, RMPs were sorted into ten tiers (Table 7.1). Most tiers contain eight RMPs; however, tied values resulted in some tiers having slightly more or less than eight RMPs. This tiered approach was selected for two reasons: data quality issues, and flexibility in scheduling.

Although the prioritization process used the best available data, some were incomplete or subjective. (See Chapters 3, 4, 5, 6 and 8 for data-related caveats.) An absolute ranking of RMPs from 1-80 implies a level of certainty that may not be supported by these data. Using tiers implies that the value of RMPs is similar within tiers, and that RMPs in low-numbered tiers have a more urgent planning need than do RMPs in high-numbered tiers.

Using tiers provides flexibility in the sequence of RMP preparation. An absolute ranking of 1-80 suggests that plans will be prepared in sequence, from the highest rank to the lowest; tiers imply no such requirement. Instead, the use of tiers only requires that tiers be addressed in sequence. Within a tier, the sequence of RMP preparation may be modified in response to extrinsic factors such as new agency initiatives or changing priorities.

Table 7.1. Prioritized list for the preparation of RMPs. See text for guidance on applying these rankings.

RMP	Rank	RMP	Rank	RMP	Rank	RMP	Rank
Tier 1		Tier 2		Tier 3		Tier 4	
Blue Hills	1	Hopkinton	9	Willard Brook	17	Blackstone Heritage	25
Freetown-Fall River	2	Lower Basin	10	Bradley Palmer	18	Pittsfield	26
Fort Phoenix	3	Shawme Crowell	11	Pilgrim	19	Mystic River	27
Myles Standish	4	Wompatuck	12	Salisbury Beach	20	Lawrence Heritage	27
Horseneck	4	Fowl Meadow ⁴	12	Stony Brook ¹	21	Beaver Brook ²	27
Great Brook Farm	6	Holyoke Range	12	Cochituate	22	Weir River/Nantasket Beach	27
Neponset River	7	Breakheart	12	Tolland	23	Boston Harbor Islands ⁴	31
Harold Parker	8	Middlesex Fells	16	Nickerson	24	Leominster	31
Tier 5		Tier 6		Tier 7		Tier 8	
Upper Basin	33	Alewife Brook ⁴	41	Massasoit	49	Appalachian Trail	58
Erving	33	Revere Beach	41	Mount Washington	50	Walden	59
Chicopee	35	Lynn Shores	41	Quincy Quarries	51	Emerald Necklace ⁴	59
Mount Greylock	35	Robinson	44	Beartown	51	Carroll Holmes	61
Brook Farm	37	Borderland	45	South Boston Beaches	53	Maudslay	62
Monroe	38	Waquoit Bay ³	46	Rutland	54	Otter River	63
D.A.R.	39	Douglas	46	Wells	55	Wachusett Mountain ³	64
Savoy	39	CT River Greenway	48	Quinsigamond	56		
				Rumney Marsh	56		
Tier 9		Tier 10					
Quincy Shores	65	Islands	73				
Southwest Corridor	66	Hammond Pond	73				
F. Gilbert Hills	66	Halibut Point	75				
J. Harry Rich	68	Weymouth Back River	76				
Elm Bank	69	Catamount	77				
Dunn Pond	70	Chestnut Hill ¹	78				
October Mountain	71	Granville	79				
Dorchester Beaches	72	Wilson Mountain	80				

1. This RMP has been approved by the DCR Stewardship Council.
2. This RMP is in draft form.
3. The DCR has a legal responsibility to update this plan every five years.
4. A recent master and/or management plan exists for every property included in this RMP. See Chapter 6 for additional information.

The following guidelines should be applied to the information contained in Table 7.1 to determine the sequence of future Resource Management Plans:

- RMP preparation should begin with Tier 1.
- Within tiers, RMPs should be prepared according to rank, unless extraordinary circumstances warrant a change of sequence.
- RMPs within a tier should be completed *before* beginning RMPs in any other tier.
- Legal obligations to update specific plans (i.e., Wachusett Mountain, Waquoit Bay) will result in a change in RMP sequence.
- The acquisition of significant new properties may warrant a change in RMP sequence.

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Chapter 8. Issues, Challenges and Opportunities

This Survey had four objectives. The first was to group DCR properties into planning units in order to determine the number of RMPs needed to cover “all reservations, parks, and forests.” The second objective was to establish an accessible data resource that would facilitate the preparation of RMPs by collecting and synthesizing readily available digital data. The third objective was to create a “roadmap” to future planning efforts by producing a sequence of plans based on a systematic assessment of resource values and operation and management considerations. These three objectives were achieved in Chapters 2, 3 and 7, respectively.

The fourth objective, and the focus of this chapter, is to identify data gaps that may hinder efforts to prepare RMPs. The following assessment of data gaps presents: 1) issues and challenges that affected the production of this Survey and hence, future RMPs; and 2) opportunities for the RMP Program to proceed in producing plans in light of these issues.

Issues and Challenges

Data Gaps. Future resource management planning efforts will benefit from both the existing data compiled for this Survey (e.g., Chapter 2 and Appendix VI) and, to a lesser degree, new data created for the purpose of prioritization in this Survey (i.e., Chapters 4, 5 and 6). However, significant gaps remain in the quality and quantity of spatial and attribute data that are typically used in RMPs.

Existing Data. As noted in Chapter 3, there are a number of caveats relating to the quality and quantity of readily available data sources crucial to the preparation of an RMP. One such data source is the GIS Open Space datalayer. As with RMPs, this Survey relied heavily on the accuracy and completeness of spatial and attribute information in the Open Space datalayer; all property names, acreages and geographical boundaries for DCR properties were derived from this layer.

The identification of planning units (Chapter 2) revealed some data quality issues with the Open Space datalayer, which in turn, created certain challenges in developing this Survey. In some instances, the property name used to identify a specific property in the Open Space datalayer was not consistent with the name for the same property normally used by field staff. In other cases, properties identified as having a DCR interest (owned in fee or deed restriction) in the Open Space datalayer did not align with a field staff member’s conception of DCR ownership and responsibilities in the planning unit. For the purpose of this Survey, some of the errors were corrected. However, other errors remain and will need to be corrected as RMPs are prepared, in order to improve the accuracy of the information.

Another known data gap involves incomplete or inconsistent data within the infrastructure databases. As referenced in Chapter 3, CAMIS was used to obtain information on buildings, and FAMIS was used to obtain information on other infrastructure including boat ramps, parking lots and recreational facilities. Both databases contain incomplete information on certain infrastructure types or, in some cases, lack information on a property’s known infrastructure. In addition, these databases do not contain fields that would prove useful in preparing an RMP, such as an up-to-date assessment of building condition or the relative level of ongoing maintenance that a particular piece of infrastructure requires. Furthermore, standardized data entry protocols were not uniformly used in populating these databases. This makes it difficult to accumulate information on a single resource, as a particular infrastructure type may be populated in a number of different spellings or formats. The end result is that these data need to be verified and, in some cases, new information will need to be created in conjunction with field staff to produce an RMP.

Table 8.1 identifies data that require verification during the resource management planning process. For RMPs, it is essential that property boundaries are verified using an on-the-ground survey. In addition,

line data for trails and roads for some properties will need to be created. Property names must be verified with field staff to ensure uniformity. Additional information that is not included in an existing data source may need to be obtained on a case by case basis. For example, some properties owned or managed by the DCR are not included in the Open Space datalayer, but need to be included in an RMP.

Table 8.1. Required corrections of existing data for RMPs.

Data	Source	Attributes for Correction
Open Space	MassGIS, via DCR	Property names
		Boundaries
		Acreages
FAMIS	DCR	Incomplete data on certain Infrastructure
		Lack of uniformity in data entry
		Additional information needed (e.g. compliance with the American Disabilities Act)
CAMIS	DCAM	Data not current (2000)
		Additional information (e.g. compliance with the American Disabilities Act)
		Lack of uniformity in data entry
Roads and Trails	DCR	Location, lengths of existing roads and trails

New Data. Chapters 4, 5 and 6 contain new data developed during this Survey. The cultural resources data were derived from reports, files and correspondence. The recreational activities and operation and management considerations data were at least partially derived from DCR staff. The subjectivity of these data limits their application as significant data sources for RMPs. Also, as RMPs are produced, information on management challenges will need to be verified with park staff to ensure that the information is up-to-date. Recreation use data and visitation estimates are important considerations for management planning; however, no reliable statewide data exist for either. Visitation estimates for each property

would be especially useful in determining recreation impacts to properties and demonstrating planning need. It should be noted that the Bureau of Recreation collects annual estimates from field staff for properties within the DSPR, but similar information is not currently collected for properties within the DUPR.

An intensive data collection process will likely need to occur for cultural resources when preparing future RMPs. As mentioned in Chapter 4, the level of significance of cultural resources is unknown for approximately one-half of DCR properties. In addition, over 70% of DCR properties have no current systematic assessment of the level of threat to the cultural resources present on that property. The statutory requirement to produce RMPs that “provide for the protection of ...cultural resources” will likely require the generation of new cultural resources information. The information derived from these efforts will contribute to the development of a more comprehensive cultural resources data set, and the improved protection and stewardship of these resources.

Opportunities

This Survey is a useful tool for preparing future RMPs. For the first time, the RMP program has the following at its disposal.

- The assignment of each DCR property (via an agency-wide, consensus-driven process) to a particular planning unit that will serve as the basis for future RMPs.
- A systematic collection of the best available data, existing and new, typically useful for preparing RMPs, with a keen sense of the data’s strengths and weaknesses.
- A recommended sequence of RMPs based on resource value and planning need. This sequence has built-in flexibility to accommodate modification of the plan sequence in response to extraordinary circumstances.
- A systematic review of the state of knowledge of cultural resources on DCR properties. This review created an awareness of cultural resources data gaps, and contributed to the direction of future OCR activities.

- A data set of previous planning efforts undertaken by DCR and its preceding agencies, including information on each document's potential compatibility with the RMP scope. This data set is of value to a variety of DCR activities (e.g., non-RMP activities, land protection, resource management) and is widely available to DCR personnel.

The contents of this Survey provide an opportunity to increase the pace of preparing RMPs, and to prepare them in a sequence that first addresses those planning units in greatest need of such plans. Information compiled while preparing this Survey provides a starting point for all future RMPs. As a result of this Survey, the RMP Program now has an increased knowledge of every DCR property, and the types and quality of data associated with these properties. This information will be applied to the preparation of future RMPs.

In moving forward, it appears that two options exist. First, RMPs can be prepared using the existing "as-is" information with limited attention to fixing data gaps. This option would ensure that RMPs are completed at a quicker pace; however, the level of confidence that the resulting RMP contains a true and accurate assessment of existing resources and would be diminished. In using this option, the data gaps may be apparent during the plan review process and may require additional effort and time to correct them. This option would also require a pre-determined level of data quality that is acceptable for RMP purposes. It is important to keep in mind that for any RMP, certain data such as property boundaries, acreages and locations of trails and roads, must be verified.

Another option is to use the production of RMPs as an opportunity to systematically verify existing information and augment data gaps on the property level. Although this option will prolong the RMP processes, the end result will be the production of a plan that would be better equipped to attain approval during the plan review stage, and would better meet the statutory intent of preparing RMPs. It would also result in information useful for all DCR bureaus and for field operations. The production of this Survey in itself should quicken the process of fixing data gaps, as the gaps can be quickly

identified for a particular planning unit. While it must be acknowledged that not all gaps can be fixed for a particular RMP, it is envisioned that some of the gaps can be augmented in the RMP process and will result in an improved planning resource for the DCR.

Finally, it should be recognized that complete, accurate data sets for preparing RMPs will likely never exist. The absence of ideal data does not stop the RMP planning process; rather, the process proceeds with an awareness of the strengths and limitations inherent in the available data and their impacts on decision-making. This Statewide Survey provides such an awareness, thereby improving the quality and value of future RMPs.

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Appendix I. Planning Units and Properties

Region	District	Planning Unit	Property
Central	Blackstone	Wells	BRIMFIELD STATE FOREST
Central	Blackstone	Wells	EAST BRIMFIELD RESERVOIR
Central	Blackstone	Wells	LAMBERTON BROOK F.C.S.
Central	Blackstone	Wells	LEADMINE POND PUBLIC ACCESS
Central	Blackstone	Wells	OPACUM WOODS
Central	Blackstone	Wells	STREETER POINT RECREATION AREA
Central	Blackstone	Wells	SUCKER BROOK F.C.S.
Central	Blackstone	Wells	WELLS STATE PARK
Central	Blackstone	Wells	WEST BROOKFIELD STATE FOREST
Central	Blackstone	Douglas	DOUGLAS STATE FOREST
Central	Blackstone	Quinsigamond	COLD HARBOR BROOK F.C.S.
Central	Blackstone	Quinsigamond	GEORGE H. NICHOLS F.C.S.
Central	Blackstone	Quinsigamond	HOP BROOK F.C.S.
Central	Blackstone	Quinsigamond	OAK ISLAND BOAT RAMP
Central	Blackstone	Quinsigamond	QUINSIGAMOND STATE PARK
Central	Blackstone	Quinsigamond	RAWSON HILL BROOK F.C.S.
Central	Blackstone	Rutland	BARRE STATE FOREST
Central	Blackstone	Rutland	HORSE POND F.C.S.
Central	Blackstone	Rutland	KITTREDGE F.C.S.
Central	Blackstone	Rutland	MOORE STATE PARK
Central	Blackstone	Rutland	MOOSE HILL F.C.S.
Central	Blackstone	Rutland	NORTH BROOKFIELD STATE FOREST
Central	Blackstone	Rutland	OAKHAM STATE FOREST
Central	Blackstone	Rutland	RUTLAND STATE PARK
Central	Blackstone	Rutland	SPENCER STATE FOREST
Central	Blackstone	Blackstone Heritage	BLACKSTONE RIVER & CANAL HSP
Central	Blackstone	Blackstone Heritage	HASSANAMESIT WOODS
Central	Blackstone	Blackstone Heritage	LEGG FARM
Central	Blackstone	Blackstone Heritage	PURGATORY CHASM STATE RESERVATION
Central	Blackstone	Blackstone Heritage	SUTTON STATE FOREST
Central	CT Valley	Chicopee	CHICOPEE MEMORIAL STATE PARK
Central	CT Valley	Chicopee	CHICOPEE STATE BOAT RAMP
Central	CT Valley	Chicopee	LAKE LORRAINE STATE PARK
Central	CT Valley	Chicopee	LUDLOW STATE FOREST
Central	CT Valley	Chicopee	RED BRIDGE STATE PARK

Region	District	Planning Unit	Property
Central	CT Valley	CT River Greenway	CADWELL FOREST
Central	CT Valley	CT River Greenway	CENTRAL REGION HEADQUARTERS
Central	CT Valley	CT River Greenway	CONNECTICUT RIVER GREENWAY STATE PARK
Central	CT Valley	CT River Greenway	J. ELWELL CONSERVATION AREA
Central	CT Valley	CT River Greenway	M & M TRAIL
Central	CT Valley	CT River Greenway	MONTAGUE STATE FOREST
Central	CT Valley	CT River Greenway	MOUNTAIN ROAD RESERVOIR
Central	CT Valley	CT River Greenway	MT SUGARLOAF STATE RESERVATION
Central	CT Valley	CT River Greenway	MT TOBY STATE FOREST
Central	CT Valley	CT River Greenway	NORTHFIELD STATE FOREST WEST
Central	CT Valley	CT River Greenway	UMASS DEMONSTRATION FOREST
Central	CT Valley	CT River Greenway	UNIVERSITY OF MASSACHUSETTS FARM
Central	CT Valley	Holyoke Range	CONNECTICUT RIVER GREENWAY STATE PARK
Central	CT Valley	Holyoke Range	DINOSAUR FOOTPRINTS
Central	CT Valley	Holyoke Range	HOLYOKE HERITAGE STATE PARK
Central	CT Valley	Holyoke Range	HOLYOKE RANGE STATE PARK
Central	CT Valley	Holyoke Range	LITTLE TOM MOUNTAIN
Central	CT Valley	Holyoke Range	MT TOM STATE RESERVATION
Central	CT Valley	Holyoke Range	SKINNER STATE PARK
Central	CT Valley	Robinson	HAMPTON PONDS STATE PARK
Central	CT Valley	Robinson	ROBINSON STATE PARK
Central	Quabbin Highlands	Dunn Pond	DUNN POND STATE PARK
Central	Quabbin Highlands	Dunn Pond	GARDNER HERITAGE STATE PARK
Central	Quabbin Highlands	Otter River	FEDERATION OF WOMENS CLUBS STATE FOREST
Central	Quabbin Highlands	Otter River	HUBBARDSTON STATE FOREST
Central	Quabbin Highlands	Otter River	LAKE DENNISSON STATE RECREATION AREA
Central	Quabbin Highlands	Otter River	LAWTON STATE FOREST
Central	Quabbin Highlands	Otter River	NEW SALEM STATE FOREST
Central	Quabbin Highlands	Otter River	OTTER RIVER STATE FOREST
Central	Quabbin Highlands	Otter River	PETERSHAM STATE FOREST
Central	Quabbin Highlands	Otter River	ROYALSTON FALLS
Central	Quabbin Highlands	Otter River	ROYALSTON STATE FOREST
Central	Quabbin Highlands	Otter River	TEMPLETON DEVELOPMENTAL CENTER
Central	Quabbin Highlands	Otter River	TEMPLETON STATE FOREST
Central	Quabbin Highlands	Otter River	WILLIAMSVILLE POND BOAT RAMP
Central	Quabbin Highlands	Otter River	WINCHENDON STATE FOREST
Central	Quabbin Highlands	Leominster	JOHNNY APPLESEED STATE PARK
Central	Quabbin Highlands	Leominster	LANCASTER STATE FOREST
Central	Quabbin Highlands	Leominster	LEOMINSTER STATE FOREST

Region	District	Planning Unit	Property
Central	Quabbin Highlands	Wachusett Mountain	WACHUSETT MOUNTAIN STATE RESERVATION
Central	Quabbin Highlands	Wachusett Mountain	WESTMINSTER STATE FOREST
Central	Quabbin Highlands	Erving	ERVING STATE FOREST
Central	Quabbin Highlands	Erving	HOSMER WOODS
Central	Quabbin Highlands	Erving	MT GRACE STATE FOREST
Central	Quabbin Highlands	Erving	NORTHFIELD STATE FOREST EAST
Central	Quabbin Highlands	Erving	ORANGE STATE FOREST
Central	Quabbin Highlands	Erving	SONG MEMORIAL FOREST
Central	Quabbin Highlands	Erving	WARWICK STATE FOREST
Central	Quabbin Highlands	Carroll Holmes	CARROLL HOLMES RECREATION AREA
Central	Quabbin Highlands	Carroll Holmes	FISKE POND CONSERVATION AREA
Central	Quabbin Highlands	Carroll Holmes	MONTAGUE STATE FOREST
Central	Quabbin Highlands	Carroll Holmes	NEW SALEM STATE FOREST
Central	Quabbin Highlands	Carroll Holmes	SHUTESBURY STATE FOREST
Central	Quabbin Highlands	Carroll Holmes	WENDELL STATE FOREST
Harbor	Island	Boston Harbor Islands	BOSTON HARBOR ISLANDS STATE PARK
Harbor	Island	Weir River/Nantasket Beach	FORT REVERE
Harbor	Island	Weir River/Nantasket Beach	HULL SHORE RESERVATION
Harbor	Island	Weir River/Nantasket Beach	NANTASKET BEACH RESERVATION
Harbor	Island	Weir River/Nantasket Beach	WEIR RIVER ESTUARY PARK
Harbor	Island	Weymouth Back River	ABIGAIL ADAMS STATE PARK
Harbor	Island	Weymouth Back River	STODDERS NECK
Harbor	Island	Weymouth Back River	WEBB MEMORIAL STATE PARK
Harbor	Shore	Dorchester Beaches	COLUMBIA ROAD PARK
Harbor	Shore	Dorchester Beaches	COMMERCIAL POINT
Harbor	Shore	Dorchester Beaches	CONLEY AND TENEAN ST PARK
Harbor	Shore	Dorchester Beaches	MCMORROW PLAYGROUND
Harbor	Shore	Dorchester Beaches	PATTENS COVE
Harbor	Shore	Dorchester Beaches	SAVIN HILL/MALIBU BEACH
Harbor	Shore	Dorchester Beaches	TENEAN BEACH
Harbor	Shore	Dorchester Beaches	VICTORY ROAD PARK
Harbor	Shore	Emerald Necklace A	FRANKLIN PARK ZOO
Harbor	Shore	Emerald Necklace A	OLD KELLY RINK
Harbor	Shore	Neponset River B	BAKER CHOCOLATE FACTORY
Harbor	Shore	Neponset River B	JORDAN MARSH SERVICE CNTR AREA
Harbor	Shore	Neponset River B	NEPONSET RIVER RESERVATION
Harbor	Shore	Neponset River B	SQUANTUM POINT PARK

Region	District	Planning Unit	Property
Harbor	Shore	Quincy Shores	DOROTHY QUINCY HOUSE
Harbor	Shore	Quincy Shores	MORTON STREET
Harbor	Shore	Quincy Shores	QUINCY SHORE RESERVATION
Harbor	Shore	Quincy Shores	TOOHIG PARK
Harbor	Shore	South Boston Beaches	MARINE PARK
Harbor	Shore	South Boston Beaches	OLD HARBOR RESERVATION
Harbor	Shore	Southwest Corridor	ROXBURY HERITAGE STATE PARK
Harbor	Shore	Southwest Corridor	SOUTHWEST CORRIDOR
North	Charles	Emerald Necklace B	CHARLES RIVER RESERVATION
North	Charles	Lower Basin	CHARLES RIVER RESERVATION
North	Charles	Lower Basin	CITY SQUARE STATE PARK
North	Charles	Lower Basin	FOSS PARK
North	Charles	Lower Basin	KENNEDY PARK
North	Charles	Lower Basin	LOWELL PARK
North	Charles	Lower Basin	MUSEUM OF SCIENCE
North	Charles	Lower Basin	NEW CHARLES RIVER DAM
North	Charles	Upper Basin B	CHARLES RIVER RESERVATION
North	Charles	Upper Basin B	DEALTRY POOL
North	Coastal	Lynn Shores	KINGS BEACH
North	Coastal	Lynn Shores	LYNN FISHING PIER
North	Coastal	Lynn Shores	LYNN HERITAGE STATE PARK
North	Coastal	Lynn Shores	LYNN SHORE RESERVATION
North	Coastal	Lynn Shores	NAHANT BEACH/LYNN SHORE RESERVATION
North	Coastal	Lynn Shores	WILLIS FISHING PIER
North	Coastal	Revere Beach	CHELSEA CREEK BEACH
North	Coastal	Revere Beach	CONSTITUTION BEACH
North	Coastal	Revere Beach	MARY O'MALLEY WATERFRONT PARK
North	Coastal	Revere Beach	REVERE BEACH RESERVATION
North	Coastal	Revere Beach	SHORT BEACH
North	Coastal	Revere Beach	WINTHROP BEACH
North	Coastal	Rumney Marsh A	BELLE ISLE MARSH RESERVATION
North	Coastal	Rumney Marsh A	LINDEN AND TOWN LINE BROOK
North	Coastal	Rumney Marsh A	RUMNEY MARSH RESERVATION
North	Coastal	Rumney Marsh A	TOWN LINE BROOK
North	Fells	Alewife Brook	ALEWIFE BROOK RESERVATION
North	Fells	Beaver Brook	BEAVER BROOK RESERVATION
North	Fells	Beaver Brook	MET STATE HOSPITAL
North	Fells	Breakheart	BREAKHEART RESERVATION
North	Fells	Breakheart	LYNN WOODS RESERVATION

Region	District	Planning Unit	Property
North	Fells	Middlesex Fells	FELLSMERE PARK
North	Fells	Middlesex Fells	FLYNN RINK
North	Fells	Middlesex Fells	MIDDLESEX FELLS RESERVATION
North	Fells	Middlesex Fells	SPOT POND BROOK
North	Fells	Middlesex Fells	STONE ZOO
North	Fells	Mystic River	AMELIA EARHART DAM
North	Fells	Mystic River	ANTHONY A. LACONTE RINK
North	Fells	Mystic River	DUGGER PARK
North	Fells	Mystic River	MEDFORD BOAT CLUB
North	Fells	Mystic River	MYSTIC LAKES
North	Fells	Mystic River	MYSTIC RIVER RESERVATION
North	Fells	Mystic River	VETERANS MEMORIAL PARK
North	Fells	Rumney Marsh B	SAUGUS RIVER RESERVATION
Northeast	Atlantic	Bradley Palmer	BALDPATE POND STATE PARK
Northeast	Atlantic	Bradley Palmer	BAY CIRCUIT TRAIL
Northeast	Atlantic	Bradley Palmer	BRADLEY PALMER STATE PARK
Northeast	Atlantic	Bradley Palmer	CLEVELAND FARM STATE FOREST
Northeast	Atlantic	Bradley Palmer	GEORGETOWN-ROWLEY STATE FOREST
Northeast	Atlantic	Bradley Palmer	PINE SWAMP
Northeast	Atlantic	Bradley Palmer	PINGREE FARM
Northeast	Atlantic	Bradley Palmer	WILLOWDALE STATE FOREST
Northeast	Atlantic	Halibut Point	HALIBUT POINT STATE PARK
Northeast	Atlantic	Halibut Point	STATE FISH PIER
Northeast	Atlantic	Harold Parker	BOXFORD STATE FOREST
Northeast	Atlantic	Harold Parker	HAROLD PARKER STATE FOREST
Northeast	Atlantic	Lawrence Heritage	GREYCOURT STATE PARK
Northeast	Atlantic	Lawrence Heritage	LAWRENCE HERITAGE STATE PARK
Northeast	Atlantic	Lawrence Heritage	PEMBERTON PARK
Northeast	Atlantic	Maudslay	ATTITASH PUBLIC ACCESS
Northeast	Atlantic	Maudslay	CHASE FARM
Northeast	Atlantic	Maudslay	MAUDSLAY STATE PARK
Northeast	Atlantic	Salisbury Beach	PLUM ISLAND STATE RESERVATION
Northeast	Atlantic	Salisbury Beach	SALISBURY BEACH STATE RESERVATION
Northeast	Atlantic	Salisbury Beach	SANDY POINT STATE RESERVATION

Region	District	Planning Unit	Property
Northeast	Great Brook	Great Brook Farm	BILLERICA STATE FOREST
Northeast	Great Brook	Great Brook Farm	CARLISLE STATE FOREST
Northeast	Great Brook	Great Brook Farm	GOVERNOR THOMAS DUDLEY PARK
Northeast	Great Brook	Great Brook Farm	GREAT BROOK FARM STATE PARK
Northeast	Great Brook	Great Brook Farm	GROTON FIRE TOWER
Northeast	Great Brook	Great Brook Farm	LOWELL HERITAGE STATE PARK
Northeast	Great Brook	Great Brook Farm	LOWELL-DRACUT-TYNGSBOROUGH STATE FOREST
Northeast	Great Brook	Walden	WALDEN POND STATE RESERVATION
Northeast	Great Brook	Walden	WALDEN WOODS
Northeast	Great Brook	J. Harry Rich	HAYES CONSERVATION LAND
Northeast	Great Brook	J. Harry Rich	J. HARRY RICH STATE FOREST
Northeast	Great Brook	J. Harry Rich	THRONE HILL CONSERVATION AREA
Northeast	Great Brook	Willard Brook	ASHBURNHAM STATE FOREST
Northeast	Great Brook	Willard Brook	BUSH HILL
Northeast	Great Brook	Willard Brook	MOUNT WATATIC RESERVATION
Northeast	Great Brook	Willard Brook	SQUANNACOOK BROOK STATE FOREST
Northeast	Great Brook	Willard Brook	TOWNSEND STATE FOREST
Northeast	Great Brook	Willard Brook	WILLARD BROOK STATE FOREST
Northeast	Metro West	Cochituate	BARE HILL POND PUBLIC ACCESS
Northeast	Metro West	Cochituate	BAY CIRCUIT TRAIL
Northeast	Metro West	Cochituate	CALLAHAN STATE PARK
Northeast	Metro West	Cochituate	COCHITUATE STATE PARK
Northeast	Metro West	Cochituate	DELANEY F.C.S.
Northeast	Metro West	Cochituate	MARLBOROUGH-SUDBURY STATE FOREST
Northeast	Metro West	Hopkinton	ASHLAND STATE PARK
Northeast	Metro West	Hopkinton	BAREFOOT BROOK F.C.S.
Northeast	Metro West	Hopkinton	BREWER BROOK F.C.S.
Northeast	Metro West	Hopkinton	CEDAR SWAMP
Northeast	Metro West	Hopkinton	FAIRBANKS LAND
Northeast	Metro West	Hopkinton	HOPKINTON STATE PARK
Northeast	Metro West	Hopkinton	ROSS F.C.S.
Northeast	Metro West	Hopkinton	TYLER F.C.S.
Northeast	Metro West	Hopkinton	UPTON STATE FOREST
Northeast	Metro West	Hopkinton	WHITEHALL STATE PARK
South	Blue Hills	Blue Hills	BLUE HILLS RESERVATION
South	Blue Hills	Blue Hills	CAMP SAYRE
South	Blue Hills	Blue Hills	TOWN BROOK FLOOD CONTROL

Region	District	Planning Unit	Property
South	Blue Hills	Fowl Meadow	BLUE HILLS RESERVATION
South	Blue Hills	Fowl Meadow	NEPONSET RIVER RESERVATION
South	Blue Hills	Neponset River A	BRUSH HILL RD
South	Blue Hills	Neponset River A	NEPONSET RIVER RESERVATION
South	Blue Hills	Quincy Quarries	BLUE HILLS RESERVATION
South	West	Brook Farm	BROOK FARM
South	West	Brook Farm	CHARLES RIVER RESERVATION
South	West	Brook Farm	CUTLER PARK
South	West	Brook Farm	HAVEY BEACH
South	West	Brook Farm	RIVERDALE PARK
South	West	Chestnut Hill	CHESTNUT HILL RESERVATION
South	West	Elm Bank	CHARLES RIVER RESERVATION
South	West	Elm Bank	ELM BANK
South	West	Elm Bank	RED WING BAY
South	West	Elm Bank	VILLAGE FALLS PARK
South	West	Hammond Pond	HAMMOND POND RESERVATION
South	West	Hammond Pond	HANCOCK WOODS
South	West	Hammond Pond	LOST POND RESERVATION
South	West	Stony Brook	BELLEVUE HILL
South	West	Stony Brook	CAMP MEIGS
South	West	Stony Brook	COLELLA FIELD AND PLAYGROUND
South	West	Stony Brook	DESANTIS PARK
South	West	Stony Brook	MOTHER BROOK RESERVATION
South	West	Stony Brook	SHERRIN AND DALE ST PLAYGROUND
South	West	Stony Brook	STONY BROOK RESERVATION
South	West	Upper Basin A	CHARLES RIVER RESERVATION
South	West	Upper Basin A	FOREST GROVE
South	West	Upper Basin A	HEMLOCK GORGE RESERVATION
South	West	Upper Basin A	RIVERWALK PARK
South	West	Wilson Mountain	WILSON MOUNTAIN
South	West	Wilson Mountain	WILSON MOUNTAIN RESERVATION
Southeast	Cape Cod	Islands	JOSEPH SYLVIA STATE BEACH
Southeast	Cape Cod	Islands	MANUEL F. CORRELLUS STATE FOREST
Southeast	Cape Cod	Islands	NANTUCKET STATE FOREST
Southeast	Cape Cod	Islands	SOUTH BEACH STATE PARK

Region	District	Planning Unit	Property
Southeast	Cape Cod	Pilgrim	BAY FARM
Southeast	Cape Cod	Pilgrim	JONES RIVER
Southeast	Cape Cod	Pilgrim	KINGSTON STATE FOREST
Southeast	Cape Cod	Pilgrim	MYLES STANDISH MONUMENT STATE RESERVATION
Southeast	Cape Cod	Pilgrim	PILGRIM MEMORIAL STATE PARK
Southeast	Cape Cod	Pilgrim	PILGRIM NATIONAL MONUMENT
Southeast	Cape Cod	Myles Standish	CAMP CACHELOT WCE
Southeast	Cape Cod	Myles Standish	MYLES STANDISH STATE FOREST
Southeast	Cape Cod	Nickerson	BREWSTER STATE FOREST
Southeast	Cape Cod	Nickerson	COLES POND AT CROWES PASTURE CONSERVATION AREA
Southeast	Cape Cod	Nickerson	CROWES PASTURE/QUIVETT CREEK MARSH
Southeast	Cape Cod	Nickerson	HAWKSNEST STATE PARK
Southeast	Cape Cod	Nickerson	HIGH HEAD
Southeast	Cape Cod	Nickerson	HOFE LAND
Southeast	Cape Cod	Nickerson	NAMSKAKET SEA PATH
Southeast	Cape Cod	Nickerson	NICKERSON STATE PARK
Southeast	Cape Cod	Shawme Crowell	BARNSTABLE STATE FOREST
Southeast	Cape Cod	Shawme Crowell	BAYVIEW FARMS
Southeast	Cape Cod	Shawme Crowell	ELLISVILLE HARBOR STATE PARK
Southeast	Cape Cod	Shawme Crowell	SALT MEADOW
Southeast	Cape Cod	Shawme Crowell	SANDWICH STATE FOREST
Southeast	Cape Cod	Shawme Crowell	SANDY NECK
Southeast	Cape Cod	Shawme Crowell	SCUSSET BEACH STATE RESERVATION
Southeast	Cape Cod	Shawme Crowell	SHAWME-CROWELL STATE FOREST
Southeast	Cape Cod	Waquoit Bay	PERRY LOT
Southeast	Cape Cod	Waquoit Bay	QUASHNET WOODS STATE RESERVATION
Southeast	Cape Cod	Waquoit Bay	SOUTH CAPE BEACH STATE PARK
Southeast	Cape Cod	Waquoit Bay	WAQUOIT BAY NERR
Southeast	Cape Cod	Waquoit Bay	WASHBURN ISLAND
Southeast	Cape Cod	Wompatuck	AMES NOWELL STATE PARK
Southeast	Cape Cod	Wompatuck	CUSHING MEMORIAL STATE PARK
Southeast	Cape Cod	Wompatuck	TRIPHAMMER WOODS
Southeast	Cape Cod	Wompatuck	WOMPATUCK STATE PARK
Southeast	South Coast	Borderland	BORDERLAND STATE PARK
Southeast	South Coast	Fort Phoenix	FT PHOENIX BEACH STATE RESERVATION
Southeast	South Coast	Fort Phoenix	NASKETUCKET BAY STATE RESERVATION
Southeast	South Coast	Fort Phoenix	STATE PIER SCHOONER ERNESTINA
Southeast	South Coast	Fort Phoenix	WEST ISLAND STATE RESERVATION

Region	District	Planning Unit	Property
Southeast	South Coast	Freetown-Fall River	ACUSHNET CEDAR SWAMP STATE RESERVATION
Southeast	South Coast	Freetown-Fall River	BERKLEY STATE FOREST
Southeast	South Coast	Freetown-Fall River	DIGHTON ROCK STATE PARK
Southeast	South Coast	Freetown-Fall River	FALLRIVER HERITAGE STATE PARK
Southeast	South Coast	Freetown-Fall River	FREETOWN FALL RIVER STATE FOREST
Southeast	South Coast	Freetown-Fall River	SE MASS BIORESERVE
Southeast	South Coast	Freetown-Fall River	SOUTH WATUPPA BOAT RAMP
Southeast	South Coast	Horseneck	ALLENS POND WILDLIFE SANCTUARY
Southeast	South Coast	Horseneck	DEMAREST LLOYD STATE PARK
Southeast	South Coast	Horseneck	GUNNING ISLAND
Southeast	South Coast	Horseneck	HORSENECK BEACH STATE RESERVATION
Southeast	South Coast	Horseneck	LITTLE PINE ISLAND
Southeast	South Coast	Massasoit	BRIDGEWATER STATE FOREST
Southeast	South Coast	Massasoit	MASSASOIT STATE PARK
Southeast	South Coast	Massasoit	RAYNHAM STATE FOREST
Southeast	South Coast	Massasoit	REHOBOTH STATE FOREST
Southeast	South Coast	Massasoit	WATSON POND STATE PARK
Southeast	South Coast	Massasoit	WEST BRIDGEWATER STATE FOREST
Southeast	South Coast	F. Gilbert Hills	BRISTOL BLAKE STATE RESERVATION
Southeast	South Coast	F. Gilbert Hills	F. GILBERT HILLS STATE FOREST
Southeast	South Coast	F. Gilbert Hills	FRANKLIN STATE FOREST
Southeast	South Coast	F. Gilbert Hills	MEDFIELD CHARLES RIVER STATE RESERVATION
Southeast	South Coast	F. Gilbert Hills	WRENTHAM STATE FOREST
West	Central Berkshire	Appalachian Trail B	APPALACHIAN TRAIL CORRIDOR
West	Central Berkshire	D.A.R.	BRYANT MOUNTAIN STATE FOREST
West	Central Berkshire	D.A.R.	CONWAY STATE FOREST
West	Central Berkshire	D.A.R.	D.A.R. STATE FOREST
West	Central Berkshire	D.A.R.	DEAD BRANCH STATE FOREST
West	Central Berkshire	D.A.R.	DEER HILL STATE RESERVATION
West	Central Berkshire	D.A.R.	GILBERT A. BLISS STATE FOREST
West	Central Berkshire	D.A.R.	KRUG SUGARBUSH
West	Central Berkshire	D.A.R.	O'NEIL HILL
West	Central Berkshire	D.A.R.	WINDSOR STATE FOREST
West	Central Berkshire	D.A.R.	WORTHINGTON STATE FOREST
West	Central Berkshire	October Mountain	BECKET STATE FOREST
West	Central Berkshire	October Mountain	LAUREL LAKE BOAT RAMP
West	Central Berkshire	October Mountain	OCTOBER MOUNTAIN STATE FOREST

Region	District	Planning Unit	Property
West	Central Berkshire	Pittsfield	ASHMERE LAKE STATE PARK
West	Central Berkshire	Pittsfield	BALANCE ROCK STATE PARK
West	Central Berkshire	Pittsfield	BATES MEMORIAL STATE PARK
West	Central Berkshire	Pittsfield	MIDDLEFIELD STATE FOREST
West	Central Berkshire	Pittsfield	PERU STATE FOREST
West	Central Berkshire	Pittsfield	PITTSFIELD STATE FOREST
West	Central Berkshire	Pittsfield	RICHMOND STATE FOREST
West	Central Berkshire	Pittsfield	SOUTH MOUNTAIN
West	Central Berkshire	Pittsfield	WAHCONAH FALLS STATE PARK
West	North Berkshire	Appalachian Trail C	APPALACHIAN TRAIL CORRIDOR
West	North Berkshire	Catamount	BUCKLAND STATE FOREST
West	North Berkshire	Catamount	CATAMOUNT STATE FOREST
West	North Berkshire	Catamount	H.O. COOK STATE FOREST
West	North Berkshire	Catamount	LEYDEN STATE FOREST
West	North Berkshire	Catamount	SHELBURNE STATE FOREST
West	North Berkshire	Catamount	SOUTH RIVER STATE FOREST
West	North Berkshire	Mount Greylock	FIELD FARM
West	North Berkshire	Mount Greylock	GREYLOCK GLEN
West	North Berkshire	Mount Greylock	MT GREYLOCK STATE RESERVATION
West	North Berkshire	Mount Greylock	TACONIC TRAIL STATE FOREST
West	North Berkshire	Monroe	BEAR SWAMP
West	North Berkshire	Monroe	CLARKSBURG STATE FOREST
West	North Berkshire	Monroe	FLORIDA STATE FOREST
West	North Berkshire	Monroe	MONROE STATE FOREST
West	North Berkshire	Monroe	NATURAL BRIDGE STATE PARK
West	North Berkshire	Monroe	ROWE STATE FOREST
West	North Berkshire	Monroe	WESTERN GATEWAY HSP
West	North Berkshire	Savoy	DUBUQUE MEMORIAL STATE FOREST
West	North Berkshire	Savoy	FLORIDA STATE FOREST
West	North Berkshire	Savoy	MOHAWK TRAIL STATE FOREST
West	North Berkshire	Savoy	REED BROOK PRESERVE
West	North Berkshire	Savoy	SAVOY MOUNTAIN STATE FOREST
West	North Berkshire	Savoy	WILCOX HOLLOW STATE FOREST
West	South Berkshire	Appalachian Trail A	APPALACHIAN TRAIL CORRIDOR

Region	District	Planning Unit	Property
West	South Berkshire	Beartown	ARTHUR WHARTON SWANN STATE FOREST
West	South Berkshire	Beartown	BEARTOWN STATE FOREST
West	South Berkshire	Beartown	CAMPBELLS FALLS STATE PARK
West	South Berkshire	Beartown	COOKSON STATE FOREST
West	South Berkshire	Beartown	EAST MOUNTAIN STATE FOREST
West	South Berkshire	Beartown	FOUNTAIN POND PARK
West	South Berkshire	Beartown	SANDISFIELD STATE FOREST
West	South Berkshire	Beartown	SILVER BROOK NORTH F.C.S.
West	South Berkshire	Beartown	SILVER BROOK SOUTH F.C.S.
West	South Berkshire	Beartown	SUNSET FARM
West	South Berkshire	Granville	GRANVILLE STATE FOREST
West	South Berkshire	Mount Washington	BASHBISH FALLS STATE PARK
West	South Berkshire	Mount Washington	JUG END STATE RESERVATION
West	South Berkshire	Mount Washington	MT EVERETT STATE RESERVATION
West	South Berkshire	Mount Washington	MT WASHINGTON STATE FOREST
West	South Berkshire	Tolland	C.M. GARDNER STATE PARK
West	South Berkshire	Tolland	CHESTER-BLANDFORD STATE FOREST
West	South Berkshire	Tolland	CLAM LAKE F.C.S.
West	South Berkshire	Tolland	HUNTINGTON STATE FOREST
West	South Berkshire	Tolland	OTIS STATE FOREST
West	South Berkshire	Tolland	TOLLAND STATE FOREST

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Appendix II. GIS Supplemental Information

The following is a summary of the methodology used by the DCR Bureau of Planning and Resource Protection GIS Program (GIS Program) to generate and present data within this Statewide Survey (Survey).

Open Space. The MassGIS Open Space datalayer (<http://www.mass.gov/mgis/osp.htm>) was used to identify DCR owned, both fee and deed restriction, and managed property. Several properties missing from the datalayer were also included in the Survey. These properties were in draft form, as developed by the GIS Program, and acquired by the DCR up to and including fiscal year 2007.

For the purpose of the Survey, properties within the DCR Golf Courses District were removed from the analysis. Properties with “parkway,” “drive,” “boulevard,” “pool,” “rink,” “tower” and “rail trail” in their name were also excluded from the analysis. Exceptions to this include Dealtry Memorial Pool, John W. Flynn Memorial Skating Rink, Groton Fire Tower, Anthony A. LoConte Memorial Skating Rink and Old Kelly Skating Rink due to their physical characteristics (e.g., contiguous to or comprised of large areas of Open Space).

Due to the time constraints associated with the Survey, property names, boundaries and acreages could not be verified. Therefore, all property attributes are approximate.

FAMIS. The number of boat ramps, parking lots and recreational facilities (athletic fields, beaches, picnic sites and playgrounds) associated with each property was determined with FAMIS – Facility Administration and Maintenance Information System – a database maintained by the DCR.

Using FAMIS spreadsheets, which were assembled by the FAMIS Program Coordinator, and Microsoft Excel, a DCR GIS specialist created pivot tables based on “SITE CODE” – a four character code unique to each property – for each of the features listed above. Each

pivot table was then imported into Microsoft Access and joined by “SITE CODE” to a lookup table, which linked “SITE CODE” to a full property name, planning unit, district and region. For properties that span multiple planning units (e.g., Blue Hills Reservation), features were manually divided into the appropriate planning unit based on “ENTITY NAME” – a descriptive field within FAMIS. A make-table query was used to compile each property, by its full name, planning unit, district and region, and the count of each feature. Properties with null values for each feature were removed from the final list.

Due to the time constraints associated with the Survey, existing FAMIS records could not be verified, partial FAMIS records could not be completed and missing FAMIS records could not be obtained.

CAMIS. The number of structures associated with each property was determined with CAMIS – Capital Asset Management Information System – a database maintained by the Division of Capital Asset Management (DCAM). It is important to note that a datalayer of CAMIS structures, as created by MassGIS, was used as the starting point for the following process steps.

Using ArcGIS, a DCR GIS specialist selected all of the structures where “AGENCY” was equal to “DEM” or “MDC” and exported the records into Microsoft Access. There, pools, rinks and towers were removed to eliminate overlap between in-house datalayers. Next, full property names were assigned to each structure.

For DEM structures, the first four characters of “FACILITYCO” (equivalent to the FAMIS “SITE CODE” described above) were joined to the lookup table described above to determine the full property name. For MDC structures, a combination of the point location and “SITE_DESC” – a descriptive field within CAMIS – were used to manually identify the full property name. Structures that could not be assigned a full property name were eliminated. The records were then exported into Microsoft Excel, where a pivot table

was created to compile each property, by its full name, and the number of structures.

The pivot table was imported back into Microsoft Access, where the full property name was joined to the lookup table described above in order to assign a planning unit, district and region. For properties that span multiple planning units (e.g., Blue Hills Reservation), the number of structures were manually divided into the appropriate planning unit based on the point location and "SITE_DESC."

Due to the time constraints associated with the Survey, records within the CAMIS datalayer could not be verified, including spatial accuracy, partial records could not be completed and missing records could not be obtained.

Property-level Calculations. The following datalayers were processed by a DCR GIS specialist using ArcGIS ModelBuilder. The base model consisted of four standard geoprocessing tools: intersect, dissolve, add field and calculate field. Intersect converted areas where DCR property and one of the datalayers below overlapped into a new datalayer. Dissolve simplified the new datalayer based on property name, property type (fee or deed restriction), planning unit name, district name, region name and property acres. Two new fields were then added and calculated; one for the value of the new datalayer (acres, miles, etc.) and another for the percent of DCR property included in the new datalayer. Variations were made to the base model depending on the type of calculation that needed to be made (area, length, etc.).

Datalayer Name	Source	Additional Information
Ecoregion	DCR, Forestry and Fire Control	-
Drainage Basin	MassGIS	http://www.mass.gov/mgis/maj_bas.htm
Town	MassGIS	http://www.mass.gov/mgis/towns.htm
Senate Legislative District	MassGIS	http://www.mass.gov/mgis/senate02.htm
House Legislative District	MassGIS	http://www.mass.gov/mgis/house02.htm
ACEC	MassGIS	http://www.mass.gov/mgis/acecs.htm
National Hydrography Data Set	USGS	http://nhd.usgs.gov/
DEP Wetlands (12K)	MassGIS	http://www.mass.gov/mgis/wetdep.htm
USGS Hydrography (25K)	MassGIS	http://www.mass.gov/mgis/hd.htm
State Outline	MassGIS	http://www.mass.gov/mgis/outline.htm
Forest Reserves	DCR, Forestry and Fire Control	-
Land Use (1999)	MassGIS	http://www.mass.gov/mgis/lus.htm
Wildlands	DCR, Forestry and Fire Control	-
Priority Habitat	MassGIS	http://www.mass.gov/mgis/prihab.htm
Estimated Habitat	MassGIS	http://www.mass.gov/mgis/esthab.htm
BioMap Core Habitat	MassGIS	http://www.mass.gov/mgis/biocore.htm
Living Waters Core Habitat	MassGIS	http://www.mass.gov/mgis/lwcore.htm
Roads and Trails	DCR, Forestry and Fire Control	-

The following datalayers were also processed at the property-level by a DCR GIS specialist using two different ArcGIS geoprocessing tools: join and intersect.

Certified and potential vernal pools were spatially joined to the DCR property datalayer. The result, in the form of a new datalayer, provided a count of the vernal pools within each property. Vernal pool density was then calculated using the calculate field tool within ArcGIS.

Intersect was used to determine the number of dams within each property. By using intersect, both the count and hazard class of dams could be manually tabulated.

Datalayer Name	Source	Additional Information
Certified Vernal Pool	MassGIS	http://www.mass.gov/mgis/cvp.htm
Potential Vernal Pool	MassGIS	http://www.mass.gov/mgis/pvp.htm
Dam	DCR, Engineering	-

Property-level Data Limitations.

Lakes, Ponds and Reservoirs. Miscalculations will be present where DCR property and lake, pond or reservoir boundaries overlap or are otherwise not concurrent.

Rivers and Streams. In order to measure the length of rivers and streams, a combination of centerline and flowline data were necessitated. Given the nature of this data set, miscalculations will be present where DCR property shares a boundary with a wide river or stream (e.g. Connecticut River).

Wetlands. The following hydrographic categories were combined to create a general wetlands category: marsh, wooded marsh and salt marsh.

Regulatory Buffer. The USGS 1:25,000 hydrography datalayer was used for this property-level calculation due to the advantages it afforded over a more accurate scale of statewide hydrography. The most noteworthy of which included a lesser density, which led to slightly easier processing and the categorization of perennial streams.

In order to estimate the regulatory buffer and not exceed the regulations set forth by the Rivers Protection Act, rivers, lakes and ponds (derived from the datalayer’s open water categorization) were buffered at 100 feet rather than 200 feet. Perennial streams, a separate categorization within the datalayer, were buffered at 200 feet.

Coastline. Inland segments of the coastline congruent with the Charles River, Mystic River, Neponset River and Merrimack River were removed from the total mileage.

Roads and Trails. The data set has not been compiled statewide. Only roads and trails collected as of October 8, 2008 were included in the analysis. The level of completeness varies district to district; some were reviewed and corrected in detail, others contained the raw GPS data.

Certified and Potential Vernal Pools. The potential for overlap between both categories of vernal pools and omission within each category of vernal pools exists.

Dams. Dam attributes used for analysis, including “LOCATION,” “REGION,” “LATITUDE” and “LONGITUDE,” were only as accurate as the Office of Dam Safety database. Dams located in the Quabbin-Ware and Wachusett-Sudbury Regions were removed from the Survey.

In order to increase the match rate between dams and their respective properties, dams within 100 feet of a property were spatially corrected to be within the bounds of the property before performing the intersect. In addition, dams without latitude and longitude coordinates were compared an earlier version of the Office of Dam Safety database. Latitude and longitude coordinates were adopted from the earlier version, where applicable.

District-level Calculations. The following datalayers were processed at the district-level by a DCR GIS specialist using ArcGIS. Each datalayer was spatially joined with a DCR Regions and Districts datalayer. The result, in the form of a new datalayer, provided a count of fire towers, boat clubs, skating rinks and swimming pools within each district.

Datalayer Name	Source	Additional Information
Fire Tower	DCR, Planning	-
Boat Club	DCR, Planning	-
Skating Rink	DCR, Planning	-
Swimming Pool	DCR, Planning	-

The parkway datalayer (source: DCR, Planning; additional information: none) was also processed at the district-level by a DCR GIS specialist using four different ArcGIS geoprocessing tools. First, an intersect between the parkway datalayer and the DCR Regions and Districts datalayer assigned a district name to each segment of parkway. Next, each parkway segment was dissolved on district name. Finally, a new field was added and calculated to determine the total length of parkway in each district.

District-level Data Limitations.

Fire Tower. The fire tower datalayer was not reviewed by the Bureau of Forestry and Fire Control. A DCR GIS specialist researched the datalayer and spatially corrected each point, where appropriate, using color orthophotography (MassGIS, 2005) and pictometry.

Boat Club. The boat club datalayer reflects only those clubs holding a current (2008) lease with the DCR. A DCR GIS specialist researched the datalayer and spatially corrected each point to rooftop accuracy using color orthophotography (MassGIS, 2005) and pictometry.

Skating Rink and Swimming Pool. The spatial accuracy and up-to-date operational status of the buildings contained in the skating rink and swimming pool datalayer varies.

Appendix III. Cultural Resources Survey Instructions

The following instructions were developed by the DCR Office of Cultural Resources (OCR) for use with the cultural resources questionnaire portion of the statewide survey (Chapter 4). These instructions have been reformatted for this report. Minor annotations have also been made; they are identified by “square brackets” (i.e., [annotation]).

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Directions. Each form should take 15-20 minutes to complete utilizing information available in the CRI [Cultural Resources Inventory] files and on shared drives. Complete your forms using pencil, and note your name or initials at the bottom of the form. Follow the scoring criteria below.

Archaeology and Heritage Parks. Tom [Mahlstedt] will review all facilities for archaeological value and will amend scores as needed. Do not make guesses about archaeological value – just score the facilities based on the cultural resource information available in the files.

Flag all forms that include heritage parks. One person will evaluate those facilities as a group.

Scoring Criteria. OCR will use some of the 1-10 values for rating the level of value, threat and knowledge of the areas included in each planning unit. For each question, 1 will represent unknown, and 2, 4, 6, 8, 10 will represent the level of known information.

QUESTION #1: VALUE

Definition. Significance based on NR [National Register] criteria; 50-year rule applies unless there is a justifiable exception (note exception on survey form). For properties with one resource on or eligible for the NR, use the level of significance for that resource as the significance for the entire property. The highest level of significance within an area prevails.

Possible Answers.

1 - Unknown

2 - None

4 - Local

- CRI forms include well-documented cellar holes or other significant resources
- On or eligible for NR, level of significance not known
- Resource is NR-listed and nomination notes local significance

6 - State

- Resource is NR-listed and nomination notes state significance
- Significant to the development of the state parks system (generally includes those properties dating from 1898-1942 or those that contain CCC-era [Civilian Conservation Corps-era] resources)
- State-level thematic or multiple property National Register listings:
 - Water Supply System of Greater Boston Thematic Resource Area
 - Massachusetts State Hospitals Multiple Property Submission

8 - National

- All Urban Parks pre-1956
- Resource is listed and nomination notes national significance

10 - National Historic Landmark

Sources.

- Jeffrey [Harris]’s spreadsheets on the shared drive are a good tool for this question, but the files should also be consulted. When referencing Jeffrey’s list, please note on the spreadsheet if the NR nomination is not in the file. *W:\Planning and Resource Protection\Cultural Resources\NationalRegister*
- CRI Files
- CCC Report

QUESTION #2: THREAT

Definition. Threat to integrity of resource or integrity of potential district.

Possible Answers.

1 - Unknown

2 - None

4 - Low Threat

- Area retains integrity; contributing features are in good condition and are being maintained

6 - Retains Integrity

- Contributing resources in fair condition, maintenance or moderate capital investment needed

8 - Diminished Integrity

- contributing resources in poor condition
- loss of one or more contributing features
- major capital investment needed to protect resource

10 - Resource is on the cusp of losing integrity

- Contributing features are in the process of being lost
- Property actively losing its historic significance
- Immediate intervention required to preserve resource

Sources.

- MHC [Massachusetts Historic Commission] correspondence files in CRI (look for findings of adverse effect, MOAs [Memoranda of Agreement])
- Planning documents
- Project files contained in the CRI

QUESTION #3: AMOUNT OF KNOWLEDGE

Definition. Amount of information contained within OCR records. Assessment of knowledge should not include leaving the floor to look for records in other offices.

Possible Answers.

1 – Unknown (if no records exist, select 2)

2 – None

- Folder is empty or no folder exists

4 – 1980 CRI forms only

6 – CRI forms + MHC forms

- Or some level of verified, updated information

8 – MHC forms and other survey and Cultural Landscape Reports, Building Conditions Assessments, NR nominations

- This is a higher level and quality of documentation

10 – Documentation + planning

- Files include field verified survey information with management/treatment recommendations. Examples include RMP or PHLI [Parks Heritage Landscape Inventory] level info; parks included in DEM's [Department of Environmental Management's] 2002 pilot inventory project

Sources.

- CRI
- List of planning documents compiled by RMP staff:
W:\Planning and Resource Protection\Regional Planning\Resource Management Planning\OCR Materials - For Survey\Plan Inventory_for_OCR.xls
- List of PHLI reports: *W:\Planning and Resource Protection\Cultural Resources\HLPI\PHLI\assignments.doc*
- DEM 2002 pilot inventory sites include: Bristol Blake State Reservation, Billerica/Warren H. Manning State Forest, Purgatory Chasm State Reservation, Robinson State Park, and Mohawk Trail State Forest

Appendix IV. District Manager Survey

The following text and survey forms were provided as an introduction and explanation for district managers in advance of face-to-face interviews.

Recreational Activities. This question is intended to identify all authorized recreational activities and the five most popular recreational activities that occur on each property within your District.

Please read the recreational activity list below and identify all that occur on the subject property by placing a checkmark in the “Occurs on Property” column. If an activity occurs on the subject property, but is not included on the recreational activity list, please identify it in the “Other” category.

Finally, identify the five most popular activities, based on the number of participants, on the subject property with a checkmark in the “Top Five Activities” column.

Recreational Activity	Occurs on Property	Top Five Activities
Field sports		
Court sports (tennis, basketball)		
Playground / tot lot activities		
Special events (concerts, Earth Day)		
Nature study (leaf peeping, bird watching)		
Interpretive programs		
Universal access programs or facility use		
Picnicking		
Swimming		
Fishing		
Boating, motorized		
Boating, non-motorized		
Camping (all forms)		
Hunting		
Trails use, non-motorized		
Walking / jogging / running		
Hiking		
Horseback riding		
Biking, pavement		
Biking, mountain		
Pet walking		
Cross country skiing		
Snowshoeing		
Trails use, motorized		
Snowmobiling		
OHV use		
Geocaching / letterboxing / questing		
Other (rock climbing, ice skating, downhill skiing)		

Priority Management Issues. This question is intended to identify what you consider to be the main challenges facing each property within your District.

Please review the table below and identify your level of concern about the listed management issues as they relate to the subject property. If a management issue of concern is not included on the list, please identify it in the “Other” category.

Your level of concern should be reported as a number, using the following categories: primary (1), secondary (2), minor (3) or N/A.

Management Issue	Level of Concern (Primary = 1, Secondary = 2, Minor = 3 or N/A)
Level of year-round staffing	
Level of seasonal staffing	
Public safety issues related to the condition of recreational facilities	
Other public safety issues	
Condition of management and maintenance facilities	
Condition or current inventory of vehicles and equipment	
Uncontrolled access to outlying portions of the property	
Illegal OHV use	
Illegal activities, other than OHVs, that generate incident reports (e.g. trash dumping, after-hours gatherings, vandalism, theft)	
Boundary encroachments	
Protection of important or sensitive natural or cultural resources	
Conflicts between recreational uses	
Other (specify)	

Appendix V. Variables Considered for Inclusion in the Operation and Management Considerations Metric

Variable	Included	Reason for Inclusion/Exclusion from Metric
Abutter issues	No	There are no consistent, statewide data.
Commissioner's Decision	No	The Commissioner has the authority to identify RMPs to be prepared outside of the normal prioritized sequence.
Forestry – Active forestry	No	This variable applies only to DSPR properties.
Forestry – Old growth	No	This variable applies only to DSPR properties.
Forestry – Pest outbreaks	No	RMPs cannot be prepared in a timely enough manner to respond to a pest outbreak (e.g., Asian long-horned beetle) once they have begun.
Funding - Capital projects	Yes	There are consistent, statewide data.
Funding – Dedicated funds for implementation	Yes	There are consistent, statewide data.
Funding - External planning funds	No	No external funding to prepare RMPs was identified.
Legal obligation – Remediation of environmental hazards	Yes	There are consistent, statewide data.
Legal obligation - Planning	No	Planning units with a legal obligation to prepare an RMP (e.g., Waquoit Bay) are prepared outside of the normal prioritized sequence.
Management – Management challenges	Yes	Consistent, statewide data were generated as part of this Statewide Survey.
Management – Camping areas	No	Camping areas are already considered in the Recreation metric.
Management – OHV use	No	This variable applies only to DSPR properties.
Partnerships – Potential for joint planning	No	No current joint planning opportunities were identified.
Partnerships – Potential for leveraging funds	No	There are no consistent, statewide data.
Planning – Previous planning documents	Yes	Consistent, statewide data were generated as part of this Statewide Survey.
Planning – Land acquisition target areas	Yes	Consistent, statewide data were generated as part of this Statewide Survey.
Planning – Build out data	No	Consistent, statewide data are dated and no longer available. Updated data are not available statewide.
Planning – Economic development zones	No	There are no consistent, statewide data.
Planning – Regional planning efforts	No	There are no consistent, statewide data.
Planning – Transit oriented development	No	There are no consistent, statewide data.
Socioeconomic Factors - Environmental justice	Yes	There are consistent, statewide data. It is the policy of the EOEEA agencies to consider Environmental Justice.
Socioeconomic Factors - Public health	No	There are consistent, statewide data on public health. However, there are no consistent, statewide data that permit associating park users with particular DPH regions.
Visitation – Scale of attraction	Yes	There are consistent, statewide data.
Visitation – Iconic parks	No	There are no consistent, statewide data.

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Appendix VI. Inventory and Review of Previous Planning Documents

Identifying and integrating information from previous planning documents is a standard part of preparing an RMP. Archival and Internet searches are performed for each plan to identify those documents that may help inform that RMP. An inventory of relevant planning documents for all DCR properties would minimize the need for plan by plan literature reviews and, potentially, decrease the time required to prepare an RMP; no such inventory exists.

RMPs integrate information from a variety of documents, on a variety of topics (e.g., natural resources, cultural resources, recreation, operations). Typically, no one document contains sufficient information to inform the entire RMP. However, a single document could serve as the basis for an RMP if it contains current information with similar content and geographic scopes to those of an RMP. The identification of such plans requires an extensive review of planning documents, characterization of their contents, and an assessment of whether specific documents have content suitable to serve as the basis of an RMP.

We conducted an inventory and review of previous planning documents in order to identify those documents of value to the preparation of RMPs. Our objectives were to: inventory readily available planning documents; characterize the contents of these documents with regard to the information needs of RMPs; and assess the potential for existing plans to serve as the basis of future RMPs.

Inventory of Planning Documents.

Planning documents were identified by reviewing physical collections of documents, and by conducting Internet searches. Specific sources of information are identified in Table VI.1.

Table VI.1. Sources of information contained in the inventory.

<i>Archives</i>
DCR Archives – Danvers
<i>Program Libraries and Files</i>
Area of Critical Environmental Concern Program – Boston
Blue Hills Reservation – Milton
Office of Cultural Resources – Boston
Resource Management Planning Program – Boston
<i>Employee Libraries and Files</i>
Baecker, J. – Boston
Cavanagh, P. – Milton
Church, P. – Milton
Haak, B. – Milton
Lash, J. – West Boylston
Mahlstedt, T. – Boston
Provencher, S. – Boston
Stokinger, B. – Boston and Stoneham*
<i>Internet</i>
JSTOR – www.jstor.org
WorldCat – www.worldcat.org
<i>Miscellaneous</i>
Clean State Report Library – Boston*
Massachusetts Natural Heritage and Endangered Species Program – Westborough

* Relocated to the DCR Archives in Danvers.

Search terms associated with the Internet varied among web sites. For JSTOR, a database that contains over 17 million scholarly and technical articles, individual searches were conducted for each property, by name. (See Appendix I for a list of these properties.) Not all articles identified by JSTOR were included in the data set. Articles with only a tangential connection to a property were excluded. For example, an article on the distribution of Ceryambicid beetles in Massachusetts, which lists Myles Standish State Forest

among hundreds of site locations, was not included. In contrast, an article on estimating deer population numbers, which reports on research conducted at Myles Standish, was included. In addition, the number of entries was limited for two properties; Walden Pond State Reservation and Brook Farm. Our JSTOR searches returned nearly 800 articles on Walden Pond and over 1,000 articles on Brook Farm. Entries on these properties were limited to a few key articles.

A different approach was used to search WorldCat; an online catalog of the holdings of over 10,000 libraries. Rather than searching by individual property name, four broad searches were used; “Massachusetts” and “State Park,” “Massachusetts” and “State Forest,” “Massachusetts” and “State Reservation,” and “Massachusetts,” and “Metropolitan Park Commission.” All references identified by WorldCat were included in the data set if they involved one or more DCR properties.

Documents identified included reports prepared by the DCR, its preceding agencies, and consultants; plans prepared by other state, local, and federal agencies; documents prepared by non-profit organizations; Massachusetts Historic Commission (MHC) documents; articles from technical and scientific journals; and academic documents (e.g., theses, class projects). ***It is important to note that our search included only readily accessible documents, was not intended to be a comprehensive inventory, and that some previous plans were not encountered during the inventory process.***

We limited our search to only those document types with direct applicability to the preparation of RMPs. Master plans, management plans, and reports on natural resources, cultural resources and recreation are included in the inventory. Requests for proposals (RFPs), engineering plans, MHC project notification forms, memoranda and other similar documents were not included.

A document inventory was created in Microsoft Excel. For each document we entered bibliographic information (e.g., authorship, title, date), the names of applicable DCR properties and planning units, characterizations of the plan’s contents and scope, and the location(s) of that document. This spreadsheet was used for all

analyses of previous planning documents and their contents. Information on the design and contents of this spreadsheet is provided at the end of this Appendix.

The plan inventory data set was developed specifically for this Statewide Survey and was never intended to be updated on an ongoing basis. However, it is anticipated that periodic updates will occur as RMPs are prepared.

The plan inventory is available as a read-only file on the “Causeway Workgroup” drive. Those wishing to access this file are directed to: *W:\Planning and Resource Protection\Regional Planning\Regional Planning Shared Documents\Plan Inventory Data Set.*

Characterization of Previous Planning Documents.

We identified 1,979 documents, ranging in date from 1849 to 2008. Most documents (1,666, 83.7%) were produced since the 1980’s. The number of documents, by decade, is presented in Figure VI.1.

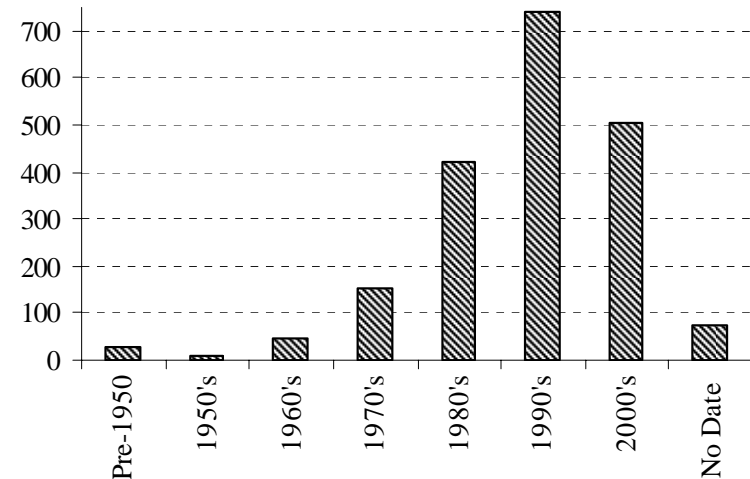


Figure VI.1. Number of documents in the plan inventory, presented by decade.

It is unknown if the number of plans, over time, reflects the actual temporal distribution of documents produced, or only the current availability of these plans. Given the DCR’s extensive archival efforts, and the review of files of several long-time employees, it is likely that the inventory reasonably reflects documents produced in recent decades.

The subject matter of each document was determined on the basis of its title, table of contents, and abstract or executive summary, as available. Typically, the document was reviewed quickly to confirm the subject matter. Rarely, subject matter was determined by reading the entire document.

Each plan was initially characterized as a Management Plan, Master Plan, or “Other” type of plan. Management Plans have a primary emphasis on operations, and contain terms such as management plan, management framework, maintenance plan, restoration plan, GOALS plan, RMP, and habitat management guidelines in their title, abstract, or executive summary. Master Plans have a primary emphasis on infrastructure and not operations, and include the words “master plan” in their titles. The “Other” plan category includes documents that are neither Management nor Master plans (e.g., biodiversity assessments, Clean State reports).

The majority of documents in the plan inventory ($n = 1,624$, 82.0%) were classified as “Other.” Management Plans ($n = 223$, 11.3%) were the second most common document type. Master Plans were the least common document type ($n = 132$, 6.7%). The distribution of plan types, by decade, is presented in Figure VI.2.

After being classified to type, each document was further classified by the assignment of a modifier. Modifiers are descriptive terms that provide additional information about the contents of a document. The variety of potential modifiers differs among plan types.

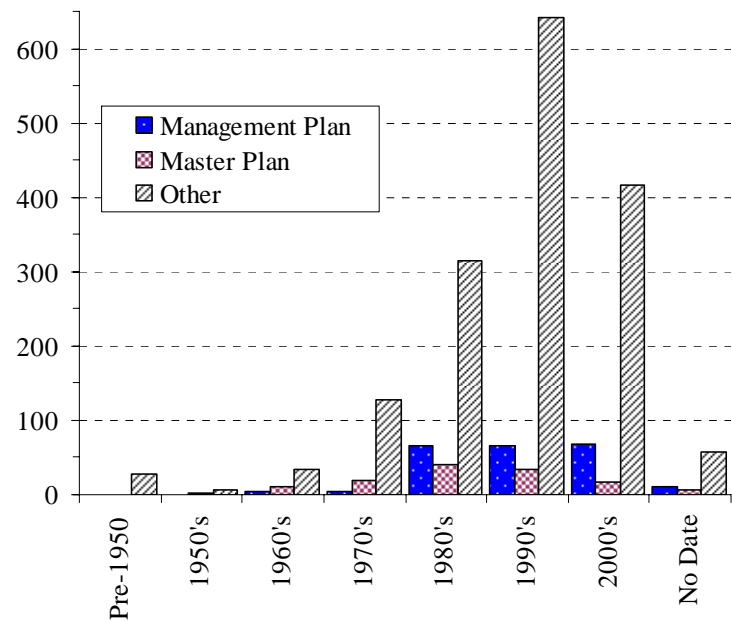


Figure VI.2. Numbers and types of documents, presented by decade.

Potential modifiers of Management Plans include cultural resources (Cultural), Environmental Impact Reports and Environmental Impact Statements (EIR), forest management plans (Forest), Guidelines for Operations and Land Stewardship plans (GOALS), natural resources plans and studies (Natural), recreation-related plans and surveys (Recreation), Resource Management Plans (RMP), vegetation management plans (VMP), and plans not characterized by any of these modifiers (No Modifier). The frequency of Management Plans, by modifier type, is presented in Figure VI.3.

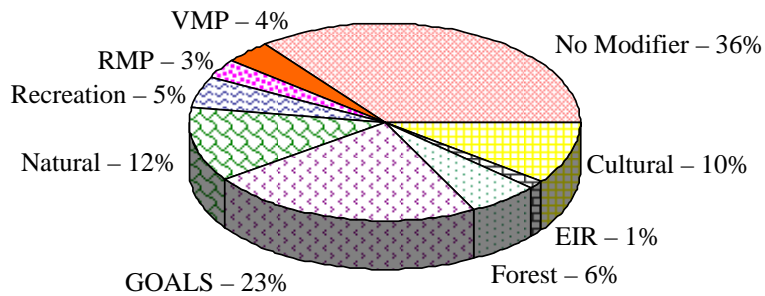


Figure VI.3. Types and percentages of Management Plans ($n = 223$) identified in the inventory of previous planning documents.

Management Plans identified in the inventory include both comprehensive planning documents and documents that focus on the management of a particular aspect of a property. Comprehensive planning documents include RMPs and GOALS plans, which together represent approximately one-quarter of the inventory's Management Plans. More than one-third of Management Plans focus on specialized topics, including vegetation, forests, natural resources, recreation and cultural resources. Management Plans with the EIR modifier are National Park Service documents prepared for the Boston Harbor Islands. Plans without modifiers represent a mixture of comprehensive and specialized plans. This includes comprehensive management plans not produced by the GOALS or RMP programs, maintenance plans, management plans for specific portions of a DCR property (e.g., dune management) and landscape-level Management Plans (e.g., plans at the river or watershed level).

Potential modifiers of Master Plans include Cultural, EIR, Recreation and No Modifier. The frequency of Master Plans, by modifier type, is presented in Figure VI.4.

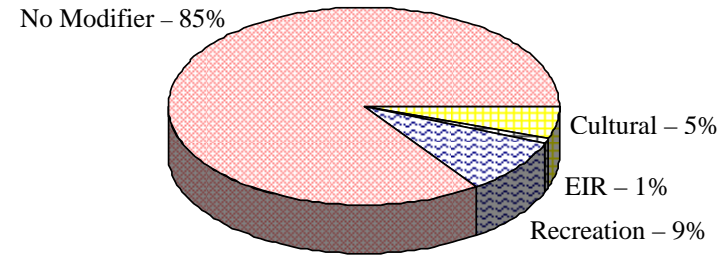


Figure VI.4. Types and percentages of Master Plans ($n = 132$) identified in the inventory of previous planning documents.

Few Master Plans were assigned modifiers. These plans typically focus on the design of a building, property, or multiple properties, rather than a particular resource or activity. However, some plans were assigned modifiers. The Recreation modifier was used for Master Plans involving trails or recreational facilities. The term Cultural was used to modify plans for DCR properties of unique cultural value (e.g., Plymouth Rock). A combined Master Plan and Draft EIR for Elm Bank Reservation was assigned the modifier EIR.

Potential modifiers of "Other" plans include Cultural, EIR, Natural, Recreation, No Modifier and Clean State. This latter term is used for environmental compliance audits conducted in the late 1990's and similar documents. The frequency of "Other" Plans, by modifier type, is presented in Figure VI.5.

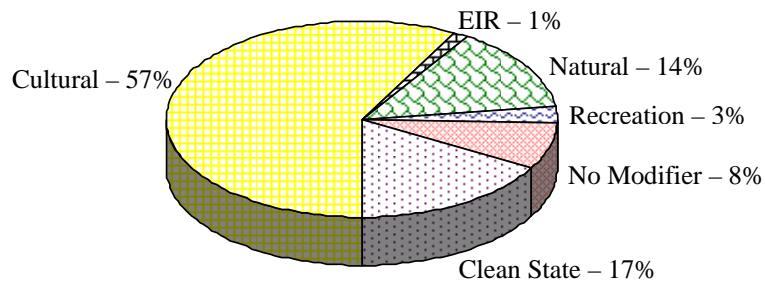


Figure VI.5. Types and percentages of Other Plans ($n = 1,624$) identified in the inventory of previous planning documents.

Cultural resources documents comprise the majority of “Other” plans. Of the 938 cultural resources documents in “Other,” 432 are MHC forms. Although not plans, these forms contain information useful for the preparation of RMPs, and are included in the plan inventory.

Clean State reports are also non-traditional planning documents that contain information useful for the preparation of RMPs. These documents contain environmental compliance checklists and an accompanying narrative. The large number of Clean State documents in the inventory (270) is due to the scope of these documents. Clean State reports typically include a single building, which often results in multiple reports for individual DCR properties.

Natural resource documents characterized as “Other” primarily include biological inventories and assessments. Also included are scientific articles that describe biological research conducted on DCR properties.

Documents assigned the Recreation modifier include plans for, and assessment of the impacts of, campsites, hiking trails, mountain bike trails, rail trails and OHV trails. In addition, the category also contains customer satisfaction surveys for recreational activities on DCR properties.

Documents classified as No Modifier in the “Other” category have little in common. They are grouped together because they involve DCR properties, but cannot be otherwise classified. This highly diverse group of plans includes such topics as renewable energy, assessments of buildings, educational and interpretive displays, behavioral and sociological perceptions of parks and guides to specific DCR properties.

All documents classified as EIR involve facility upgrades or other changes to DCR properties. These documents were typically prepared by the DCR, leaseholders on DCR properties, and utility companies with easements across DCR properties. Some of these plans involve projects proposed for properties prior to their ownership by the DCR.

Assessment of the Potential of Existing Plans to Serve as the Basis of Future RMPs.

Previous planning documents may serve as the basis for future RMPs if they are comprehensive in scope, include all properties within a planning unit, and contain current information. In order to identify those documents with the potential to be converted into an RMP, we systematically reduced the number of entries in our plan inventory.

We first identified those plans with comprehensive scopes. Plans characterized as “Other” were removed from the data set. Management Plans with the modifier Cultural, Forest, Natural, Recreation, or VMP were also removed from the data set, as were Master Plans with the Cultural or Recreation modifier.

Next, we removed those documents with inappropriate geographic scopes. Only those plans with information applicable to an entire property or planning unit remained in the data set.

Finally, we eliminated all preliminary plans from the data set. This included most draft documents and executive summaries. When the data set contained only the draft version of a plan, the most recent draft was retained and all earlier versions were removed. Similarly, executive summaries were retained if the full version of the plan was not in the data set.

The resulting data set contains 136 Management or Master plans with information on entire properties or planning units. The contents and geographic scope of these documents were considered potentially appropriate to serve as the basis for RMPs. The number of plans, by decade, is presented in Figure V.6.

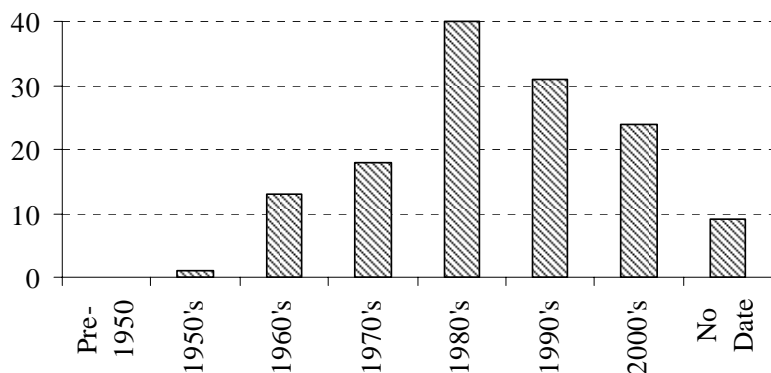


Figure VI.6. Decade of origin of comprehensive planning documents.

Because RMPs are prepared for planning units, determining the suitability of the comprehensive planning documents to serve as the basis for future RMPs requires that these documents be considered at the planning unit level.

Thirteen planning units (15.1%) have *no previous Management or Master plans* for any property in the planning unit. The administrative location and identity of planning units lacking previous planning documents is provided in Table VI.2.

Table VI.2. Planning units ($n = 13$) that lack a master or management plan for any property in that planning unit.

Region	District	Planning Unit
Central	Blackstone	Wells
Central	Blackstone	Quinsigamond
Central	Connecticut Valley	Chicopee
Central	Quabbin Highlands	Leominster
Harbor	Island	Weymouth Back River
North	Fells	Breakheart
North	Fells	Rumney Marsh B
Northeast	Atlantic	Lawrence Heritage
Northeast	Great Brook	Great Brook Farm
Northeast	Metro West	Hopkinton
South	West	Hammond Pond
South	West	Wilson Mountain
Southeast	South Coast	Borderland

Fifty-five planning units (65.5%) have a previous Management or Master plan for *at least one, but not all*, properties in that unit. Twelve of these units have plans written this decade (Table VI.3), and may be considered current.

Table VI.3. Planning units ($n = 12$) with a recent master or management plan for one or more properties in that unit.

Region	District	Planning Unit
Northeast	Metrowest	Cochituate
Harbor	Shore	Dorchester Beaches
Harbor	Shore	Emerald Necklace A
Southeast	South Coast	Fort Phoenix
Southeast	South Coast	Horseneck
Southeast	Cape Cod	Pilgrim
North	Coastal	Lynn Shores
Northeast	Atlantic	Salisbury Beach
Southeast	Cape Cod	Shawme Crowell
Southeast	Cape Cod	Waquoit Bay
Harbor	Island	Weir River/Nantasket Beach
Northeast	Great Brook	Willard Brook

Only Eighteen planning units (20.9%) have a previous planning document *for every property* in that unit. These 18 planning units are identified in Table VI.4. Also identified in that table are the date and title of the most recent planning document associated with these planning units.

Sixteen RMPs are represented by the 18 planning units listed in Table VI.4. The difference between the number of plans and planning units is because the Appalachian Trail includes multiple planning units.

Eight of the planning units in Table VI.4 are associated with planning documents written in this decade; these documents are considered “current.” They contain information less likely in need of updating than do older documents. Because of this, current documents are considered suitable to serve as the basis of RMPs.

Resource Management Plans already exist for three of the planning units, in Table VI.4, with current planning documents. The Chestnut Hill and Stony Brook planning units have RMPs approved by the DCR Stewardship Council. The third planning unit, Beaver Brook, has a draft RMP. It is anticipated that this draft will be finalized and submitted to the Stewardship Council in 2009.

The five remaining planning units with current planning documents are Alewife Brook, Boston Harbor Islands, Emerald Necklace B, Fowl Meadow, and Neponset River A. Each has unique considerations that merit individual discussion.

The recent master plan for Alewife Brook Reservation and Alewife Brook provides information useful for incorporation into the Alewife Brook RMP. This master plan, which was produced by the MDC, places emphasis on the planning unit’s hydrology and role as a greenway. Standard RMP contents, such as a detailed inventory of cultural resources, land stewardship zoning, infrastructure, mapping and operations are absent, as are cost estimates for the current plan’s recommendations.

Extensive planning documents exist for the Boston Harbor Islands planning unit. Many of these documents, including plans that focus

on natural resources, cultural resources and visitor carrying capacity, were produced by the National Park Service (NPS). The NPS also produced the General Management Plan identified in Table VI.4. The two major challenges associated with preparing an RMP for the Boston Harbor Islands planning unit are extracting and synthesizing relevant data from NPS documents, and generating DCR-specific information (e.g., operations, RMP standard maps).

The current Emerald Necklace plan involves multiple properties, only some of which are DCR-owned. This plan lacks most of the information contained in typical RMP, but does provide a vision and context for the Emerald Necklace RMP. In addition, although this plan covers a planning unit, it does not cover an entire RMP. This is because there are two planning units (Emerald necklace A and B) in the RMP.

The previous Fowl Meadow management plan is for the Ponkapoag/Fowl Meadow Area of Critical Environmental Concern. This document includes a subset of topics to be addressed in the Fowl Meadow RMP. Among those components of an RMP absent from this management plan are land stewardship zoning, infrastructure, operations and mapping. This plan will provide supplemental information for the future preparation of the Fowl Meadow RMP.

The Neponset River Master Plan contains much of the information included in an RMP (e.g., cost estimates for recommendations, staffing needs, stakeholder input). However, the geographic scope of this plan does not match that of the Neponset River RMP. The scope of this RMP covers both that of the master plan referenced in Table VI.4 as well as that of the earlier (1996) Master Plan for the Lower Neponset River Reservation. Both plans will need to be updated and expanded if they are to serve as the basis of the Neponset River RMP.

Although there are no existing plans that can be readily converted to RMPs, some existing master and management plans may serve as the basis for future RMPs. Of the five planning units with recent comprehensive documents, the Boston Harbor Islands and, to a lesser degree, the Alewife Brook and Neponset River Planning Units have plans that may serve as the basis for preparing the corresponding RMPs.

Part of the difficulty in converting existing master or management plans into an RMP is that neither document type has the same intent, scope, or format as an RMP. Efforts to incorporate standard RMP elements into ongoing and future master and management planning efforts will enhance the ability to convert other plan types into future RMPs.

Table VI.4. Planning units ($n = 18$) with a master or management plan for all properties within that unit, and the title of the most recent plan for a property within that unit.

Planning Unit	Date	Plan Title
Alewife Brook	2003	Alewife Brook Reservation and Alewife Brook master plan
Appalachian Trail A	1982	Management plan for the Appalachian Trail in Massachusetts
Appalachian Trail B	1982	Management plan for the Appalachian Trail in Massachusetts
Appalachian Trail C	1982	Management plan for the Appalachian Trail in Massachusetts
Beaver Brook*	2006	Expanded Beaver Brook Reservation resource management plan.
Boston Harbor Islands	2002	Boston Harbor Islands. A National Park Area. General Management Plan.
Chestnut Hill**	2006	Chestnut Hill Reservation resource management plan.
Douglas	1992	GOALS. November 1992. Douglas State Forest
Dunn Pond	1997	State forests and parks in the northeastern Connecticut Valley region. GOALS. May 1997.
Emerald Necklace B	2001	Back Bay Fens, the Riverway, Olmstead Park, Jamaica Pond. The Emerald Necklace.
Fowl Meadow	2007	Ponkapoag/Fowl Meadow Area of Critical Environmental Concern resource management plan.
Granville	1969	Granville State Forest master plan.
Harold Parker	1993	One special park. Planning report for the Harold A. Parker State Forest. December 1993.
Mount Washington	1996	Final management plan. Jug End State Reservation and Wildlife Management Area.
Neponset River A	2006	Neponset River Reservation. Master plan, phase II. From Paul's Bridge to Central Avenue. Boston and Milton, MA.
Quincy Quarries	1985	Quincy Quarries management plan.
Southwest Corridor	1987	Roxbury Heritage State Park master plan. 1987
Stony Brook**	2008	Resource Management Plan. Stony Brook Reservation.

* Draft RMP.

** RMP approved by the DCR Stewardship Council.

Finally, it must be noted that the RMP planning process identifies a planning unit’s additional planning needs, including the need for master plans. In the future, master plans will derive from RMPs, with the content of the RMP informing the master planning process.

Previous Planning Documents and the Prioritization of Future RMPs. Information on recent master and management plans was incorporated into the Operations and Management Considerations metric (Chapter 6) and used to help prioritize the sequence of future Resource Management Plans.

Structure of the Plan Inventory Data Set. The plan inventory data set was created in Microsoft Excel version 2002. It consists of 19 columns and 2,660 rows. Each column contains either a plan attribute (e.g., title) or information required to sort documents. A list of column headings and associated data are presented in Table VI.5. Each row contains information on a single document, as it relates to a particular property. Plans that cover multiple properties have multiple entries (i.e., rows), one for each property associated with the plan.

Table VI.5. Structure and contents of plan inventory data set.

Column Header	Associated Data
Record ID	A sequential number assigned to each row for the purpose of sorting. Multiple entries (i.e., rows) of the same document were assigned different Record ID values. These values are not permanently associated with a given entry.
Property	The name of the DCR property associated with the document.
Planning Unit	The name of the DCR planning unit associated with the document.
Author	The name, or names, of the plan’s authors. Names of individual authors were used when available; otherwise, institutional authorship (e.g., Massachusetts Department of Conservation and Recreation) was used.
Date	Year (e.g., 1972) that the plan was produced. When a plan lacked a date, the term “ND” (i.e., no date) was assigned.
Title	The name of the document, presented as it occurs on the document’s cover.
Document ID	A unique number permanently assigned to a given document. Every occurrence of this document in the data set has the same Document ID number.
Plan Type 1	Main characterization of a plan’s subject matter; Management Plan, Master Plan, or Other. See Chapter 5 for additional information.
Plan Type 2	A modifying term used to further characterize a document’s subject matter. Plan Type 2 entries vary with information contained in the Plan Type 1 column. Acceptable entries are identified below. Management Plan – Cultural, EIR, Forest, GOALS, Natural, Recreation, RMP, VMP and No Modifier. Master Plan – Cultural, EIR, Recreation and No Modifier. Other – Clean State, Cultural, EIR, Natural, Recreation and No Modifier. Additional information on these terms is provided in Chapter 5.

Table VI.5. Structure and contents of plan inventory data set. Continued.

Column Header	Associated Data
Plan Scope	<p>The geographic scope of the document. Acceptable entries, and explanations of these entries, are identified below.</p> <p>Facility – Document is applicable to less than an entire property (e.g., a building’s master plan).</p> <p>Property – Document is applicable to an entire property.</p> <p>District – Document is applicable to an entire DCR district.</p> <p>Region – Document is applicable to an entire DCR region.</p> <p>Division – Document applies to either all DSPR properties or all DUPR properties.</p> <p>System – Document is applicable to the entire DCR system.</p> <p>Other Scale – Document not specific to the DCR system and usually based on large geographic areas (e.g., watersheds).</p>
Archive (Y/N)	<p>Identifies if the document is in the DCR archives in Danvers. Acceptable entries, and explanations of these entries, are identified below.</p> <p>Y – Document confirmed to occur in the archives.</p> <p>N – Document confirmed to not occur in the archives.</p> <p>U – Unknown if the document occurs in the archives. Many unknown documents likely occur in the archives, but their occurrence was not confirmed for this project.</p>
Box	<p>The boxes at the DCR archives are not numbered, but some boxes are labeled by site name. When a document was known to occur in the archives, and when that box was labeled, identifying information is entered here. Additional entries for this column include N/A (not applicable), NR (not recorded) and TBD (to be determined).</p>
Other Location	<p>The location(s) of documents occurring elsewhere than the DCR archives. Acceptable entries, and explanations of these entries, are identified below.</p> <p>ACEC – Files of the ACEC Program, Causeway Street, Boston.</p> <p>Baecker – Files of Jim Baecker, Causeway Street, Boston.</p> <p>BHRS-Library – Library in rangers’ office, Blue Hills Reservation</p> <p>BHRS-P. Church – Office of South Region, Regional Director, Blue Hills Reservation.</p> <p>BHRS-RMP – RMP Planner’s office, Blue Hills Reservation.</p> <p>Ecology – Files of Jack Lash, West Boylston or Heather Warchaloski, Causeway Street, Boston.</p> <p>N/A – There are no known locations for this document.</p> <p>NHESP – Documents on file at the Natural Heritage and Endangered Species Program’s office, Westborough</p> <p>OCR – Files of the Office of Cultural Resources, Causeway Street, Boston</p> <p>Provencher – Files of Shaun Provencher, Causeway Street, Boston</p> <p>RMP – Resource Management Planning Program library, Causeway Street, Boston</p> <p>STOKE – Files of Bill Stokinger, Causeway Street, Boston</p> <p>TFM – Files of Thomas F. Mahlstedt, Causeway Street, Boston</p> <p>Web – The document is available via the Internet.</p>

Table VI.5. Structure and contents of plan inventory data set. Continued.

Column Header	Associated Data
PDF	The name of the PDF version of the document cover and table of contents, if applicable. Only documents in the DCR archives or Bill Stokinger's files at Middlesex Fells Reservation (now at the DCR Archives) were partially scanned and entered into the data set at a later time. Information from all other documents was directly entered into the data set.
Link	If a document is available on the Internet, its URL is identified here. If a document is not available on the Internet, the term "N/A" is used in this column.
Comment	Additional information on the document is provided here.
Verified	An indication that the information in the citation is correct. A document's information was considered verified if it was reviewed and its information recorded, or if there were two or more reliable references to the document. "Yes" indicates that the document was verified, and "No" indicates that it was not.
Document Type	An indication of the format of the document. Acceptable entries, and explanations of these entries, are identified below. Academic – All academic documents, including theses, dissertations, honors theses, course projects, etc. Book – Documents in the form of a book or booklet. MHC Form – Document is a Massachusetts Historic Commission form. National Register – Document involves a property that is either on the National Register of Historic Places or is a national landmark. Plan – A broad category that includes all documents not classified as another document type.
Preliminary Document	When multiple versions of a document occur in the inventory, all except the most recent are categorized as a Preliminary Document.