



APPENDICES

A: Maps

B: Vernal Pool and Conservation Parcel Data

C: Americans with Disabilities Act (ADA) Self Evaluation

D: Public Survey Results

E: Potential Walking Loop Maps

F: BioMap2 Reports

OPEN SPACE AND RECREATION PLAN

2016-2022

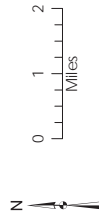
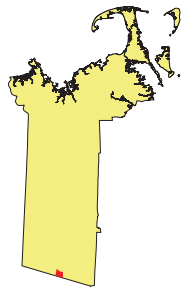
**Town of Richmond,
Massachusetts**

APPENDIX A: MAPS

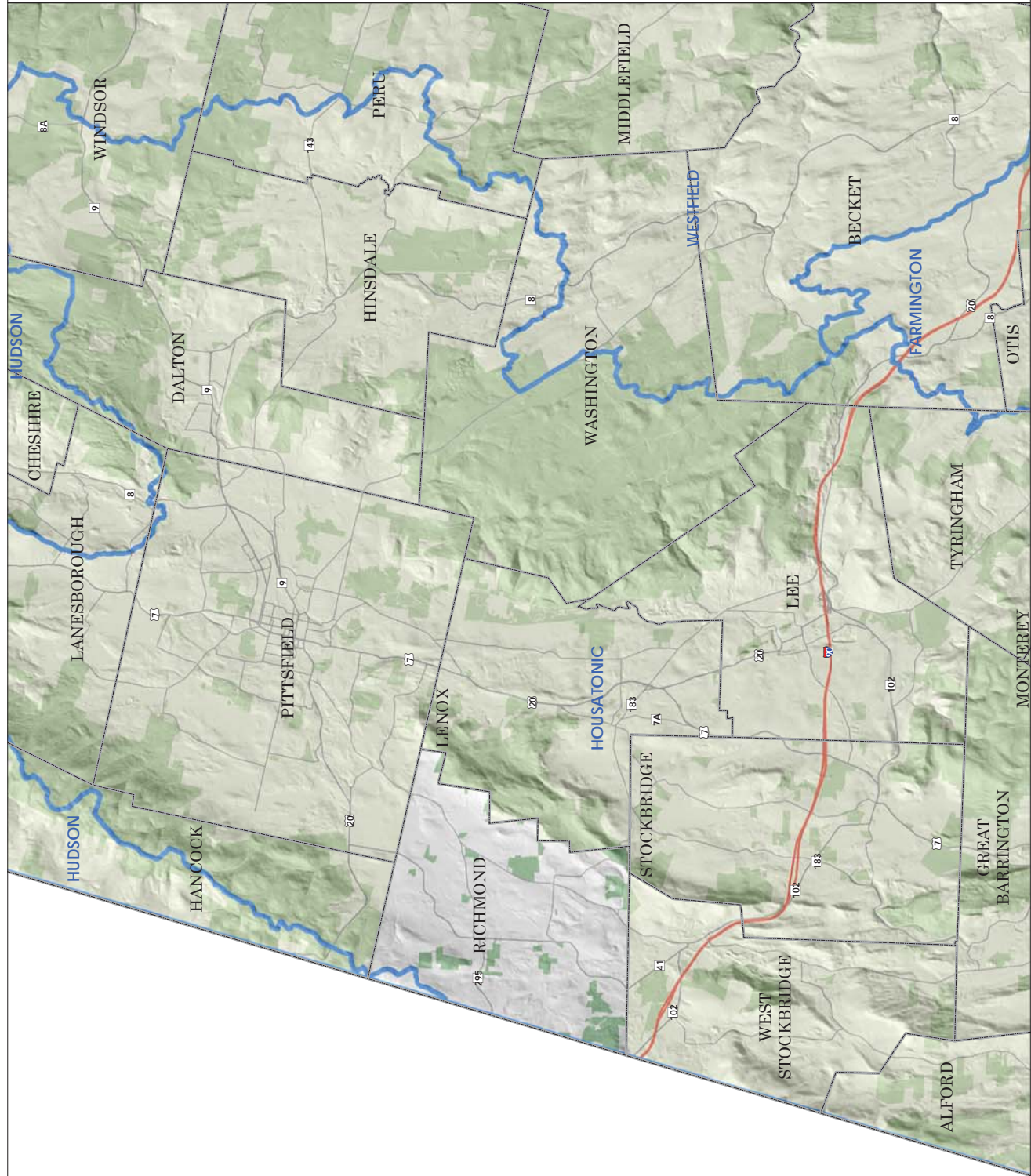
Town of Richmond Open Space and Recreation Plan

Map 1: Regional Context

- StateMask
- Towns
- Interstate
- Major Road
- Minor Road
- Major Watersheds
- Protected Land



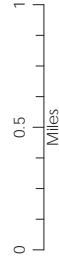
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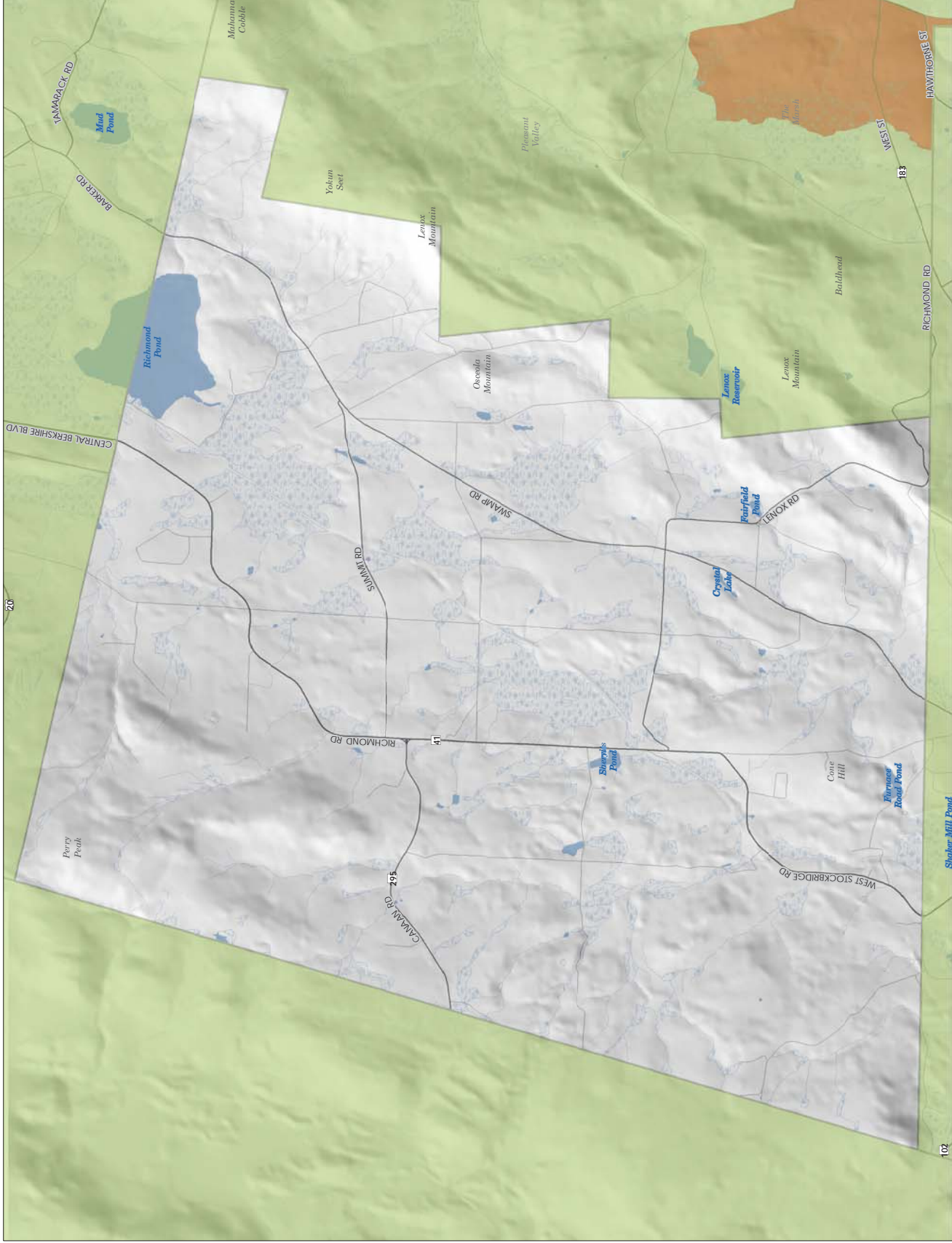
Town of Richmond Open Space and Recreation Plan

Map 2: Environmental Justice Populations

-  Towns
-  Interstate
-  Major Road
-  Minor Road
-  Local Road
-  Stream
-  Wetland
-  Open Water
-  Environmental Justice

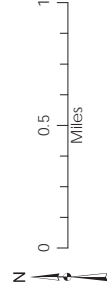


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Town of Richmond Open Space and Recreation Plan Map 3: Zoning

- COMM
- RA-A
- RA-C
- SR
- Floodplain Overlay District
- Wireless Communication Overlay District
- Scenic Mountain Act
- Towns
- Interstate
- Major Road
- Minor Road
- Local Road
- Stream
- Wetland
- Open Water



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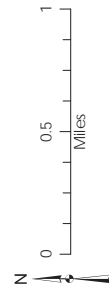


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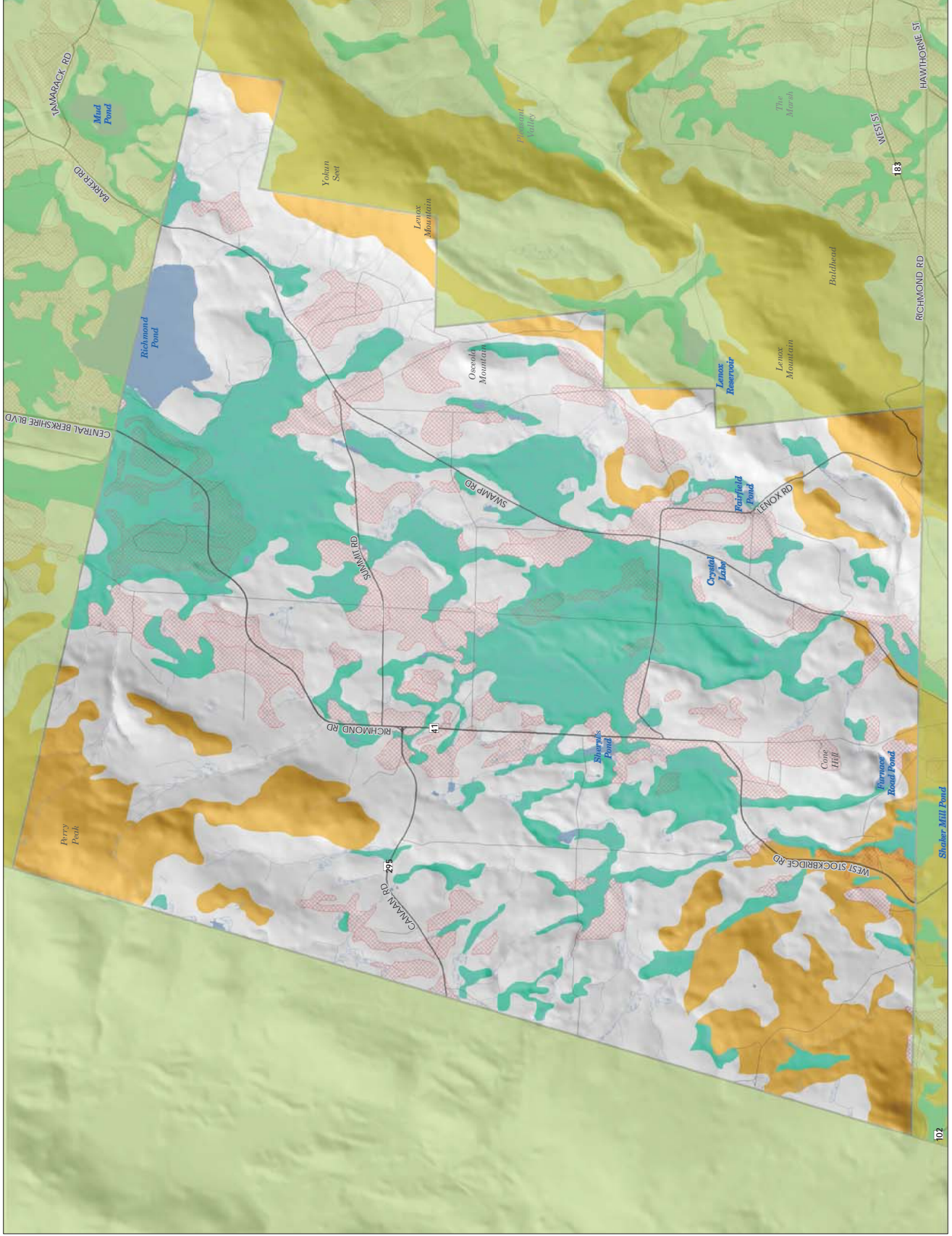
Open Space and Recreation Plan

Map 4: Soils and Geologic Features Map

- Prime Agricultural Soils
- Excessively Drained Soils
- Poorly Drained Soils
- Towns
- Interstate
- Major Road
- Minor Road
- Local Road
- Stream
- Wetland
- Open Water



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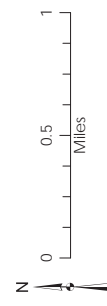


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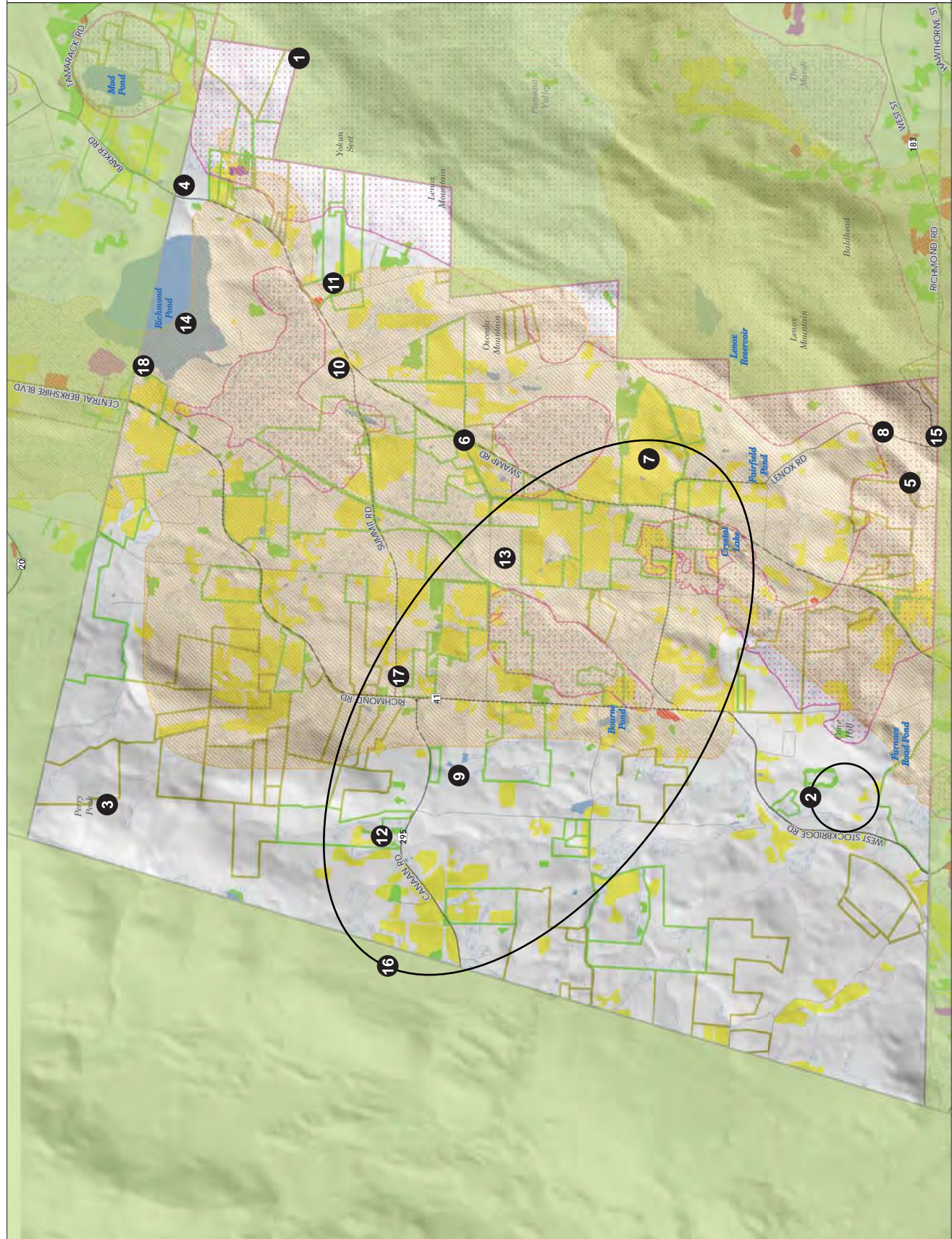
Open Space and Recreation Plan

Map 5: Unique Features Map

- Priority Conservation Area
- Chapter 61
- Chapter 61A
- DCR Scenic Landscapes
- Open Land
- Agricultural Land
- Commercial Land
- Industrial Land
- Towns
- Interstate
- Major Road
- Minor Road
- Local Road
- Stream
- Wetland
- Open Water



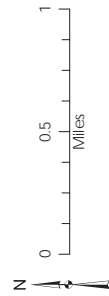
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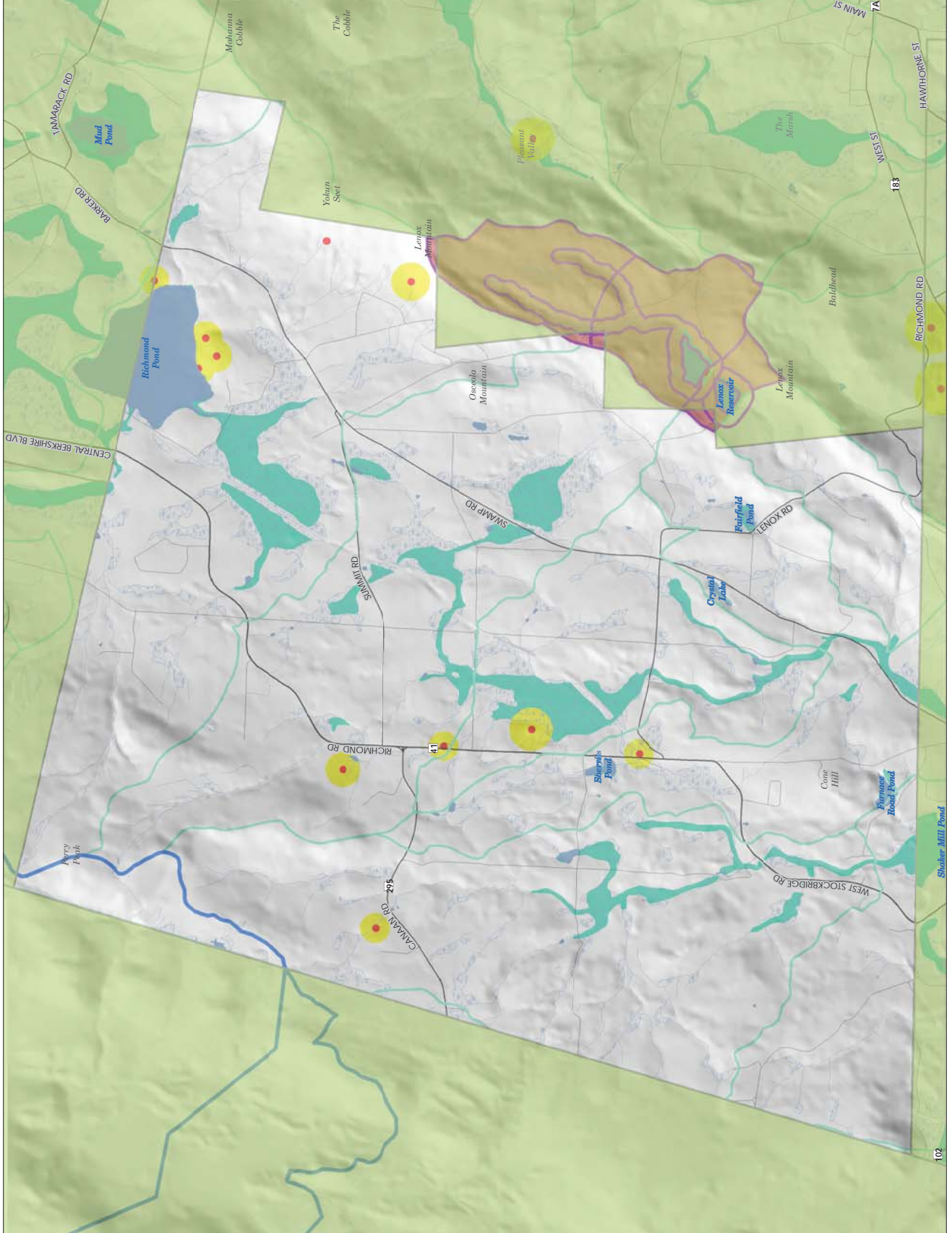
Map 6: Water Resources

- Public Water Supply Well
- Interim Wellhead Protection Area
- Surface Water Protection Zone
- Outstanding Resource Waters
- FEMA 100yr Floodplain
- Watersheds
- Subwatersheds
- Towns
- Interstate
- Major Road
- Minor Road
- Local Road
- Stream
- Wetland
- Open Water



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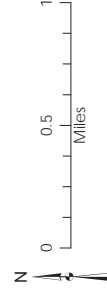
Berkshire Regional Planning Commission



Town of Richmond Open Space and Recreation Plan

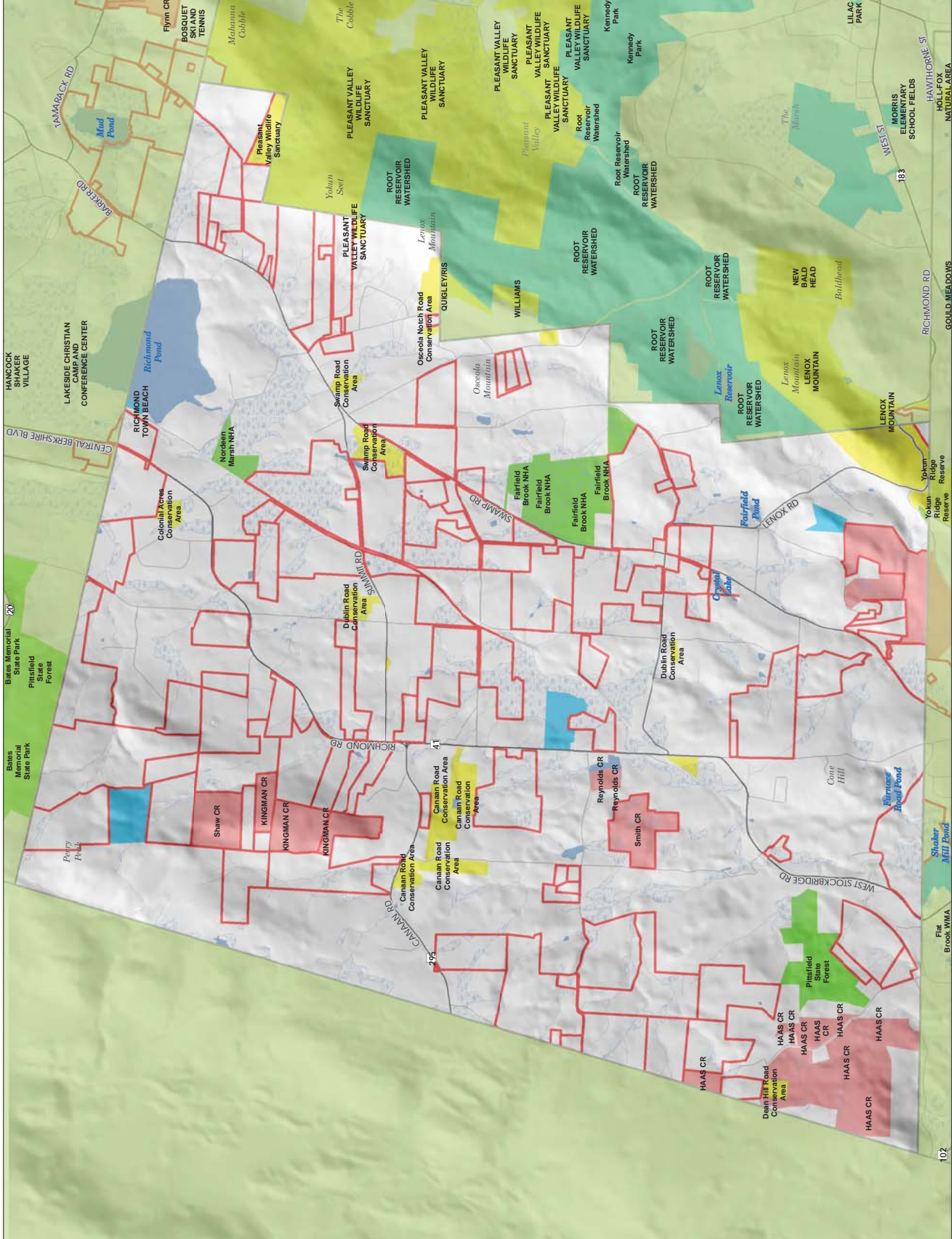
Map 7 Inventory of Land of Conservation and Recreation Interest

- State
- Municipality
- Land Trust
- Private
- Chapter 61, 61A, 61B
- Towns
- Interstate
- Major Road
- Minor Road
- Local Road
- Stream
- Welland
- Open Water

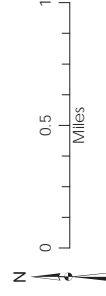


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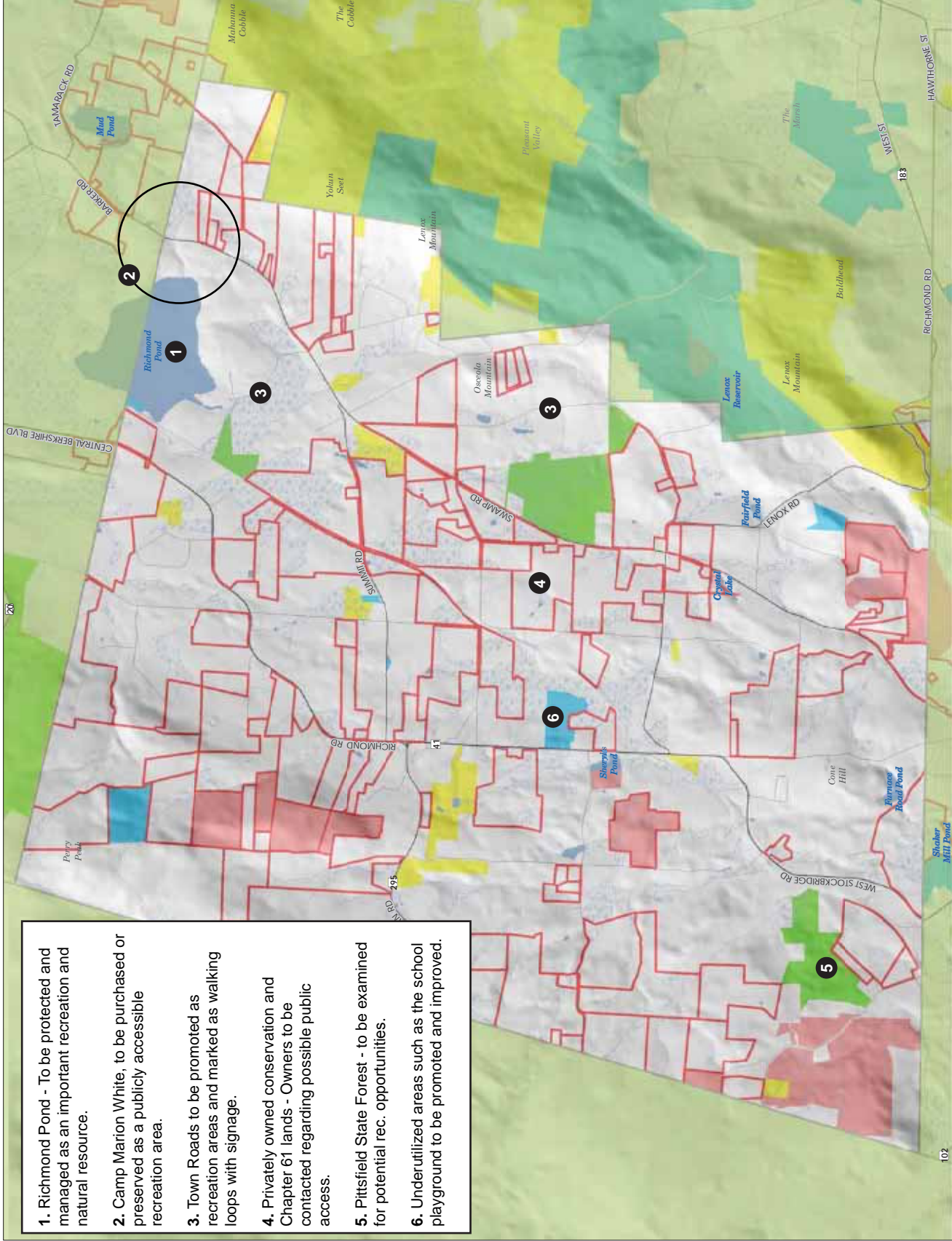
Town of Richmond Open Space and Recreation Plan Map 8: Action Plan



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Berkshire Regional Planning Commission

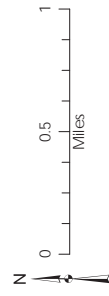
1. Richmond Pond - To be protected and managed as an important recreation and natural resource.
2. Camp Marion White, to be purchased or preserved as a publicly accessible recreation area.
3. Town Roads to be promoted as recreation areas and marked as walking loops with signage.
4. Privately owned conservation and Chapter 61 lands - Owners to be contacted regarding possible public access.
5. Pittsfield State Forest - to be examined for potential rec. opportunities.
6. Underutilized areas such as the school playground to be promoted and improved.



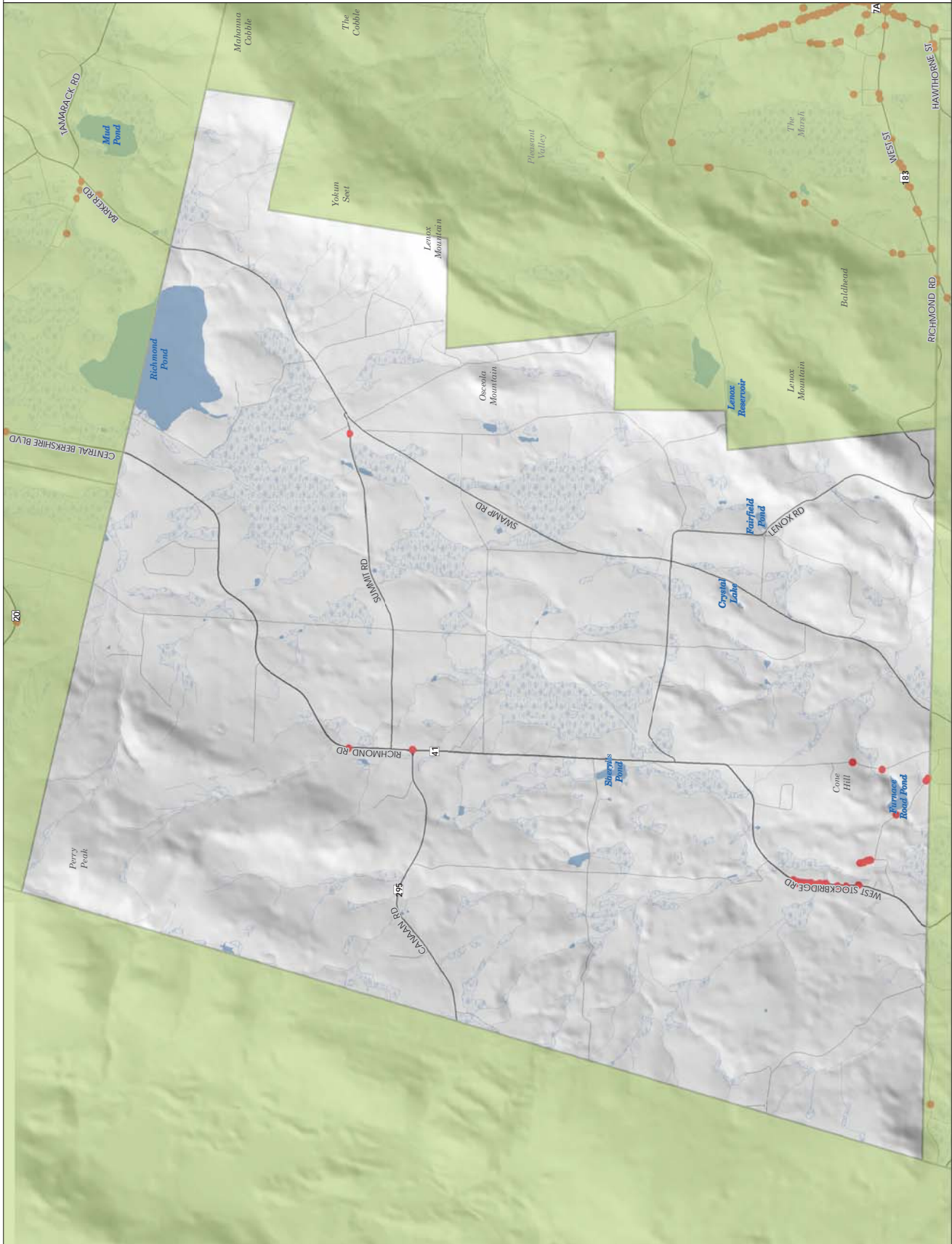
Town of Richmond Open Space and Recreation Plan

Map A: Historic Resources

- Historic Properties (MACRIS)
- ☐ Towns
- ↗ Interstate
- ↘ Major Road
- ↘ Minor Road
- ↘ Local Road
- ~ Stream
- ~ Wetland
- ~ Open Water

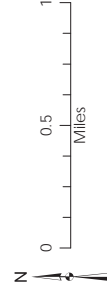


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Town of Richmond Open Space and Recreation Plan Map C: Current Land Use (2005)

- Forest
- Agriculture
- Commercial
- Industrial
- Multi-Family Residential
- Medium Density Residential
- Low Density Residential
- Very Low Density Residential
- Recreation
- Open Land
- Urban Public/Institutional
- Utilities / Transportation
- Water
- Towns
- Interstate
- Major Road
- Minor Road
- Local Road
- Stream
- Wetland
- Open Water



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Berkshire Regional Planning Commission

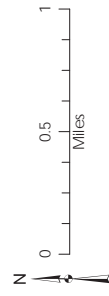


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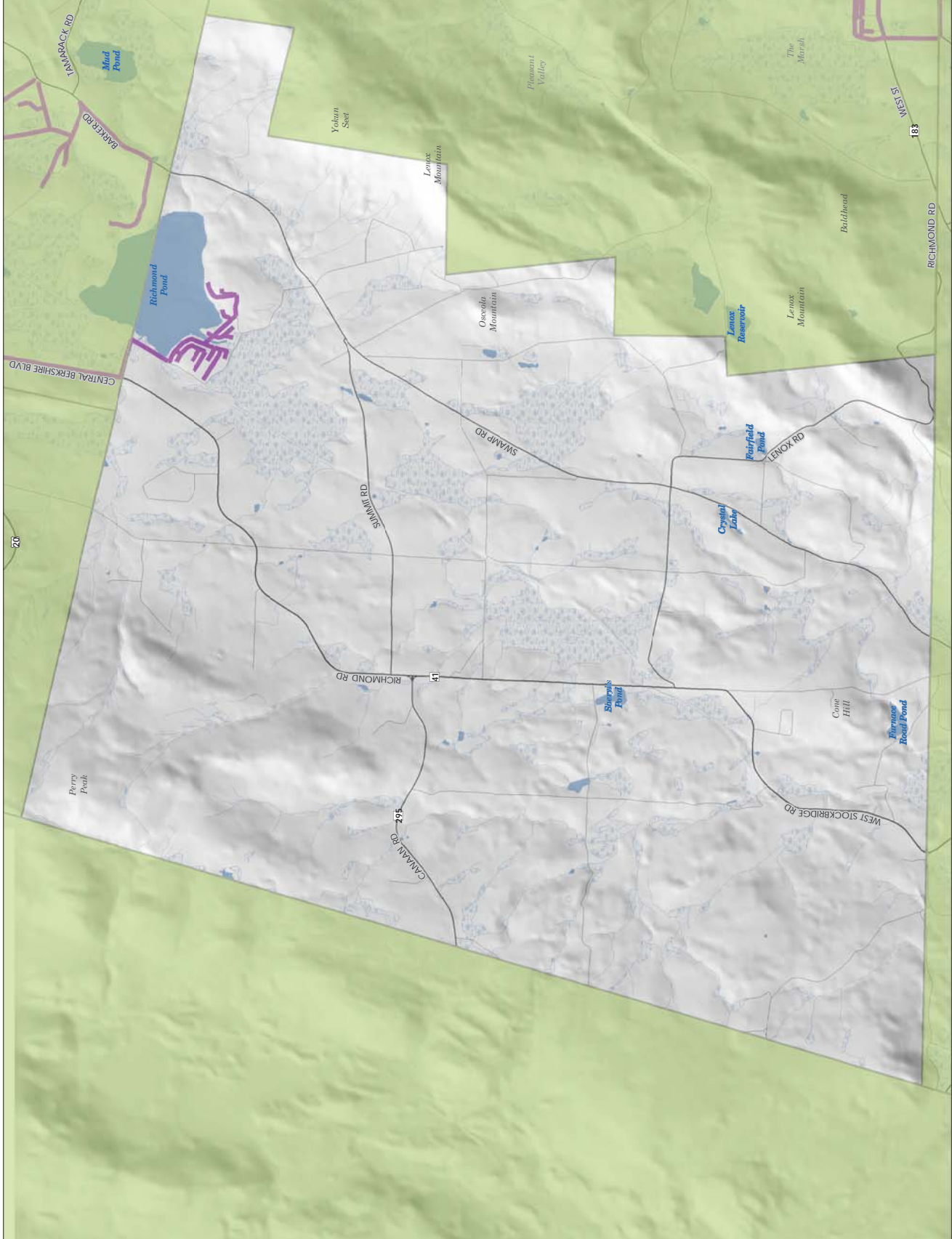
Open Space and Recreation Plan

Map D: Infrastructure

- Wastewater
- Towns
- Interstate
- Major Road
- Minor Road
- Local Road
- Stream
- Wetland
- Open Water

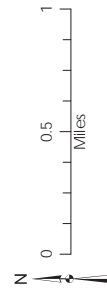


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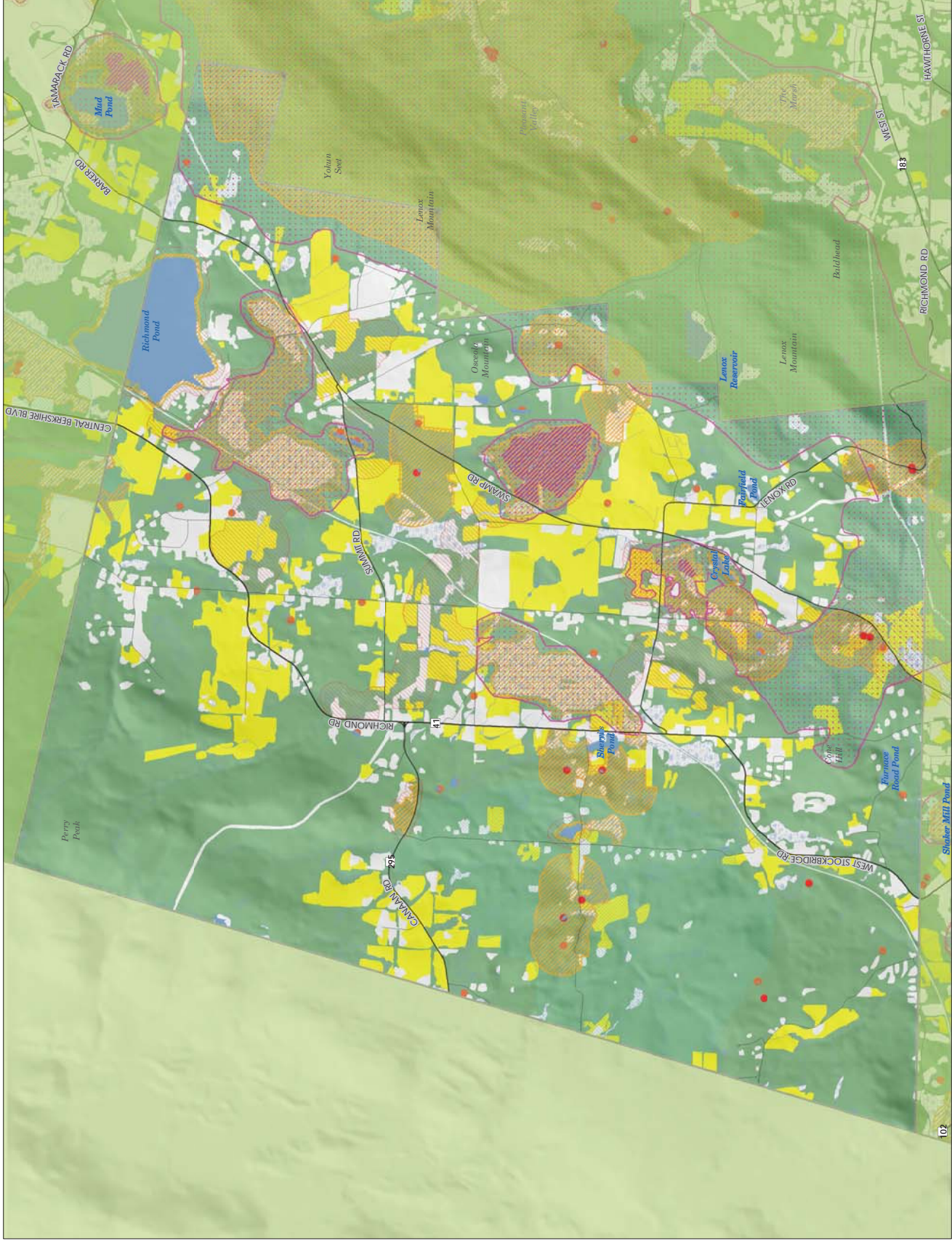


Town of Richmond Open Space and Recreation Plan Map F: Vegetation and Fisheries and Wildlife

- Critical Natural Landscapes
- Priority Conservation Area
- Certified Vernal Pool
- Potential Vernal Pool
- NHESP Priority Habitats of Rare Species
- BioMap2 Core Habitat
- Natural Communities
- Agriculture
- Forest
- Towns
- Interstate
- Major Road
- Minor Road
- Local Road
- Stream
- Wetland
- Open Water

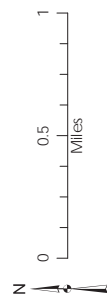


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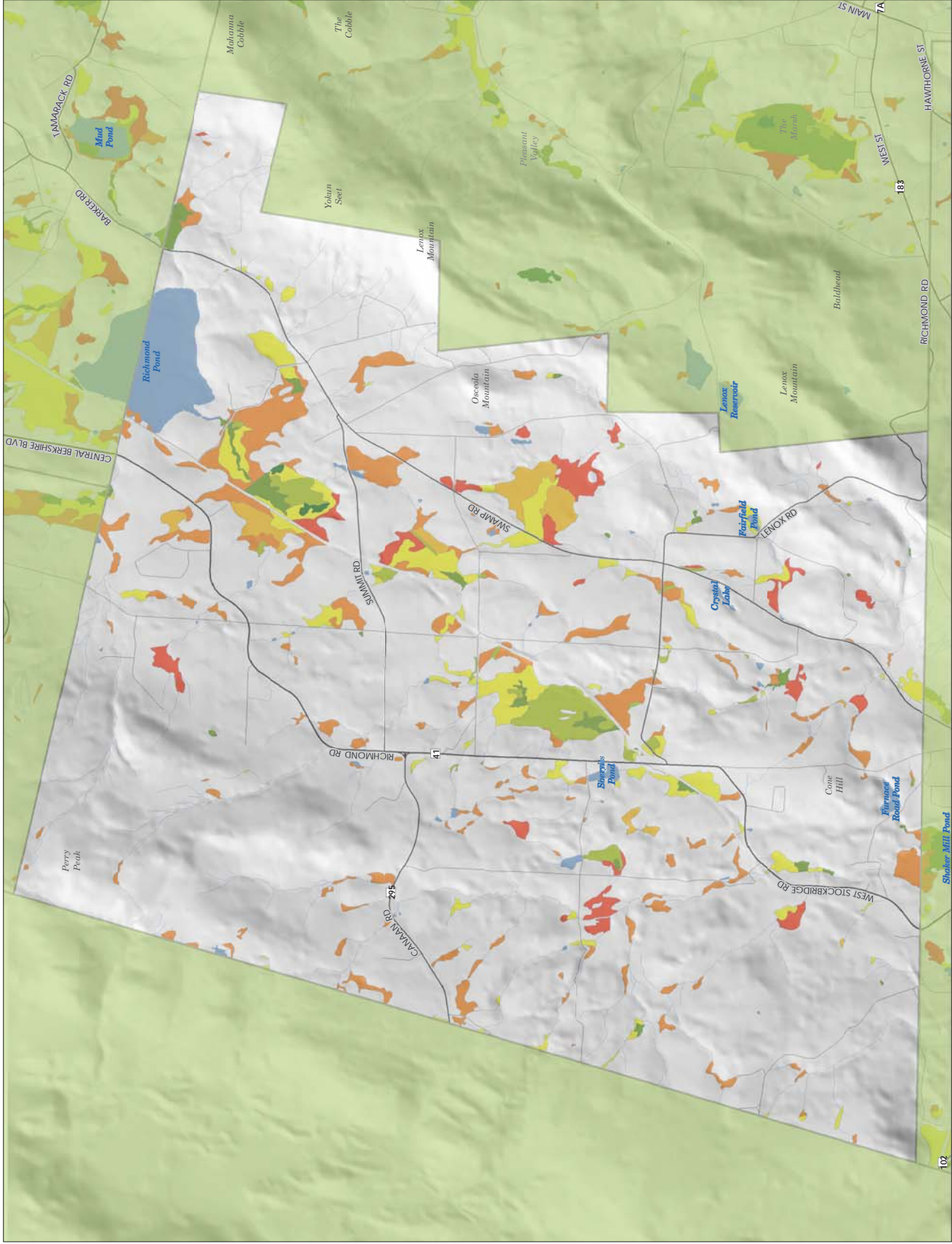


Town of Richmond Open Space and Recreation Plan Map G: Wetlands

- Bog
- Deep Marsh
- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees
- Open Water
- Towns
- Interstate
- Major Road
- Minor Road
- Local Road
- Stream



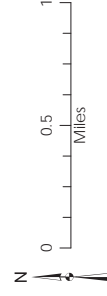
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Town of Richmond Open Space and Recreation Plan

MAP H: Buildable Land

- Partially Constrained Land
- Buildable Land
- Towns
- Interstate
- Major Road
- Minor Road
- Local Road
- Stream
- Wetland
- Open Water



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APPENDIX B: VERNAL POOL AND CONSERVATION PARCEL DATA

Table B1 - Parcels Containing Potential Vernal Pools		
See Vernal Pools Map, this appendix		
Source: Mass. GIS Wetlands		
MAP_PAR_ID	Label	SITE_ADDR
2491060002100000	106-21	FURNACE ROAD
2494020000800000	402-8	350 DUBLIN ROAD
2494020008700000	402-87	90 GRIST MILL ROAD
2494020009210000	402-92.1	0 STATE ROAD
2494020010700000	402-107	399 STATE ROAD
2494030001400000	403-14	1 SWAMP ROAD
2494040000100000	404-1	462 EAST ROAD
2494040003010000	404-30.1	0 YOKUN ROAD
2494050000500000	405-5	0 STATE ROAD
2494050002906000	405-29.6	1238 STATE ROAD
2494050005200000	405-52	311 SUMMIT ROAD
2494050005600000	405-56	670 DUBLIN ROAD
2494050006800000	405-68	687 SUMMIT ROAD
2494050007000000	405-70	0 SUMMIT ROAD
2494060001600000	406-16	80 CUNNINGHAM HILL ROAD
2494070001801000	407-18.1	80 BIRCH LANE
2494070005000000	407-50	638 ROSSITER ROAD
2494080007400000	408-74	0 DUBLIN ROAD
2494080010000000	408-100	0 SWAMP ROAD
2494080010600000	408-106	1151 EAST ROAD
2494080017100000	408-171	1921 DUBLIN ROAD
2494080017900000	408-179	2034 DUBLIN ROAD
2494090000920000	409-9.2	660 OSCEOLA ROAD
2494110002800000	411-28.1	2650 SWAMP ROAD
2494110006000000	411-60	1404 LENOX ROAD
2494120002210000	412-22.1	0 DEAN HILL ROAD
2494040000900000	404-9	0 EAST ROAD
2494080015700000	408-157	2050 SWAMP ROAD

Table B2 - Parcels Containing BioMap2 Core Habitat, Priority Habitat for Rare Species, and Priority Conservation Areas

See Priority Environmental Areas Map, this appendix

Source: Mass. GIS BioMap2

MAP_PAR_ID	Label	SITE_ADDR
2491010000100000	101-1	0 BOY'S CLUB ROAD
2491010000200000	101-2	0 BOY'S CLUB ROAD
2491010000300000	101-3	0 WALNUT ROAD
2491010000400000	101-4	WALNUT ROAD
2491010000500000	101-5	0 WALNUT ROAD
2491010000600000	101-6	WALNUT ROAD
2491010000700000	101-7	0 OAK ROAD
2491010000800000	101-8	WALNUT ROAD
2491010000900000	101-9	WALNUT ROAD
2491010001000000	101-10	0 WALNUT ROAD
2491010001100000	101-11	CHESTNUT STREET
2491010001600000	101-16	OAK ROAD
2491010001700000	101-17	59 OAK ROAD
2491010001800000	101-18	OAK ROAD
2491010001900000	101-19	SHORE ROAD
2491010002000000	101-20	85 OAK ROAD
2491010002100000	101-21	105 OAK ROAD
2491010002200000	101-22	MAPLE ROAD
2491010002220000	101-22.2	0 OAK ROAD
2491010002300000	101-23	0 SPRUCE ROAD
2491010002400000	101-24	0 OAK ROAD
2491010002500000	101-25	0 OAK ROAD
2491010002600000	101-26	0 OAK ROAD
2491010003400000	101-34	MAPLE ROAD
2491010003500000	101-35	0 MAPLE ROAD
2491010003600000	101-36	0 MAPLE ROAD
2491010003700000	101-37	MAPLE ROAD
2491010003800000	101-38	MAPLE ROAD
2491010003900000	101-39	0 MAPLE ROAD
2491010010000000	101-100	SHORE ROAD
2491010010300000	101-103	160 CHESTNUT STREET
2491010010600000	101-106	0 CHESTNUT STREET
2491010010610000	101-106.1	CHESTNUT STREET
2491010010700000	101-107	118 CHESTNUT STREET
2491010010800000	101-108	100 CHESTNUT STREET
2491010010900000	101-109	94 CHESTNUT STREET
2491010011000000	101-110	68 CHESTNUT STREET
2491010011100000	101-111	0 HEMLOCK ROAD
2491010011200000	101-112	HEMLOCK ROAD
2491010011300000	101-113	CHESTNUT STREET
2491010011500000	101-115	0 MAPLE ROAD



2491010011500000	101-115	0 MAPLE ROAD
2491010011800000	101-118	11 OAK ROAD
2491010011900000	101-119	0 CHERRY ROAD
2491010012000000	101-120	CHERRY ROAD
2491010012200000	101-122	24 CHERRY ROAD
2491010012300000	101-123	HEMLOCK ROAD
2491010012400000	101-124	7 BRIDGE STREET
2491010012700000	101-127	6 BRIDGE STREET
2491010013000000	101-130	211 SHORE ROAD
2491010013100000	101-131	219 SHORE ROAD
2491010013200000	101-132	235 SHORE ROAD
2491010013300000	101-133	0 SHORE ROAD
2491010013400000	101-134	0 SHORE ROAD
2491010013500000	101-135	257 SHORE ROAD
2491010013600000	101-136	263 SHORE ROAD
2491010013800000	101-138	293 SHORE ROAD
2491010013900000	101-139	311 SHORE ROAD
2491010014000000	101-140	323 SHORE ROAD
2491010014100000	101-141	0 SHORE ROAD
2491010014200000	101-142	0 SHORE ROAD
2491010014300000	101-143	314 SHORE ROAD
2491010014400000	101-144	310 SHORE ROAD
2491010014500000	101-145	302 SHORE ROAD
2491010014600000	101-146	300 SHORE ROAD
2491010014700000	101-147	292 SHORE ROAD
2491010014800000	101-148	290 SHORE ROAD
2491010014900000	101-149	278 SHORE ROAD
2491010015000000	101-150	274 SHORE ROAD
2491010015100000	101-151	0 SHORE ROAD
2491010015200000	101-152	SHORE ROAD
2491010015300000	101-153	248 SHORE ROAD
2491010015400000	101-154	240 SHORE ROAD
2491010015500000	101-155	230 SHORE ROAD
2491010015800000	101-158	212 SHORE ROAD
2491010015900000	101-159	210 SHORE ROAD
2491010016000000	101-160	208 SHORE ROAD
2491010016100000	101-161	200 SHORE ROAD

2491010016200000	101-162	192 SHORE ROAD
2491010016300000	101-163	0 SHORE ROAD
2491010016400000	101-164	9 BOAT LANE
2491010016500000	101-165	15 BOAT LANE
2491010016600000	101-166	0 BOAT LANE
2491010016700000	101-167	34 BOAT LANE
2491010016800000	101-168	22 BOAT LANE
2491010016900000	101-169	18 BOAT LANE
2491010017000000	101-170	144 SHORE ROAD
2491010017100000	101-171	140 SHORE ROAD
2491010017200000	101-172	132 SHORE ROAD
2491010017300000	101-173	130 SHORE ROAD
2491010017400000	101-174	0 SHORE ROAD
2491010017500000	101-175	120 SHORE ROAD
2491010017600000	101-176	0 SHORE ROAD
2491010017700000	101-177	SHORE ROAD
2491010017800000	101-178	106 SHORE ROAD
2491010017900000	101-179	27 EAST BEACH ROAD
2491010018100000	101-181	33 EAST BEACH ROAD
2491010018200000	101-182	0 EAST BEACH ROAD
2491010018300000	101-183	115 SHORE ROAD
2491010018400000	101-184	129 SHORE ROAD
2491010018500000	101-185	141 SHORE ROAD
2491010018600000	101-186	29 WILLOW ROAD
2491010018700000	101-187	43 WILLOW ROAD
2491010018800000	101-188	0 WILLOW ROAD
2491010018900000	101-189	0 WILLOW ROAD
2491010019000000	101-190	159 WILLOW ROAD
2491010019100000	101-191	9 CHERRY ROAD
2491010019200000	101-192	CHERRY ROAD
2491010019300000	101-193	25 CHERRY ROAD
2491010019400000	101-194	39 CHERRY ROAD
2491010019500000	101-195	51 CHERRY ROAD
2491010019700000	101-197	0 BEECH ROAD
2491020000100000	102-1	341 BOYS CLUB ROAD
2491020000200000	102-2.11	330 BRANCH FARM ROAD
2491020002900000	102-29	168 SWAMP ROAD
2491020002901000		
2491020003000000	102-30	57 LAKE ROAD
2491020003200000	102-32	37 LAKE ROAD EXT.
2491020003300000	102-33	39 LAKE ROAD EXT.
2491020003400000	102-34	57 LAKE ROAD EXT.
2491020003700000	102-37	70 LAKE ROAD EXT.
2491020003800000	102-38	58 LAKE ROAD EXT.
2491020003900000	102-39	56 LAKE ROAD EXT.
2491020004000000	102-40	0 LAKE ROAD EXT.



2491020004100000	102-41	40 LAKE ROAD EXT.
2491020004400000	102-44	87 LAKE ROAD
2491020004500000	102-45	95 LAKE ROAD
2491020004600000	102-46	LAKE ROAD
2491020004700000	102-47.2	42 LAKE ROAD EXT
2491020005100000	102-51	35 TRURAN LANE
2491020005300000	102-53	20 SWAMP ROAD
2491020005400000	102-54	SWAMP ROAD
2491030000220000	103-2.2	0 SWAMP ROAD
2491030000330000	103-3.3	0 SWAMP ROAD
2491030001100000	103-11	329 SWAMP ROAD
2491040000100000	104-1	0 BOY'S CLUB ROAD
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2491040003400000	104-34	101 SHORE ROAD
2491040003500000	104-35	SHORE ROAD
2491040003600000	104-36	109 SHORE ROAD
2491040003700000	104-37	0 SHORE ROAD
2491040003900000	104-39	18 EAST BEACH ROAD
2491040004000000	104-40	0 EAST BEACH ROAD
2491060002100000	106-21	FURNACE ROAD

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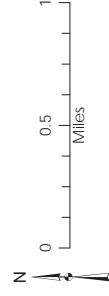
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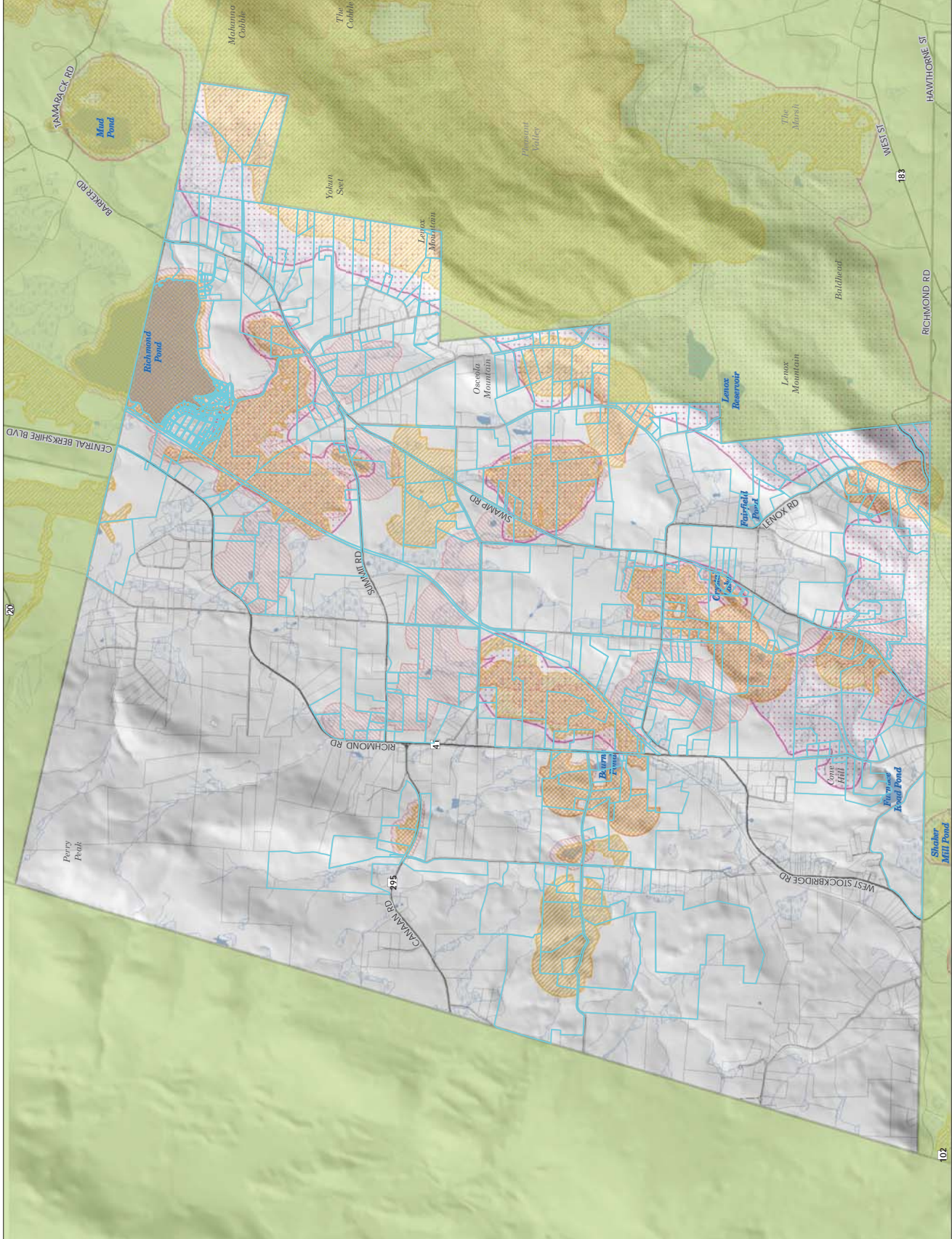
Open Space and Recreation Plan

Map I: Priority Environmental Areas

- NHESP Priority Habitats of Rare Species
- Priority Conservation Area
- BioMap2 Core Habitat
- Parcels
- Towns
- Interstate
- Major Road
- Minor Road
- Local Road
- Stream
- Wetland
- Open Water



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Town of Richmond

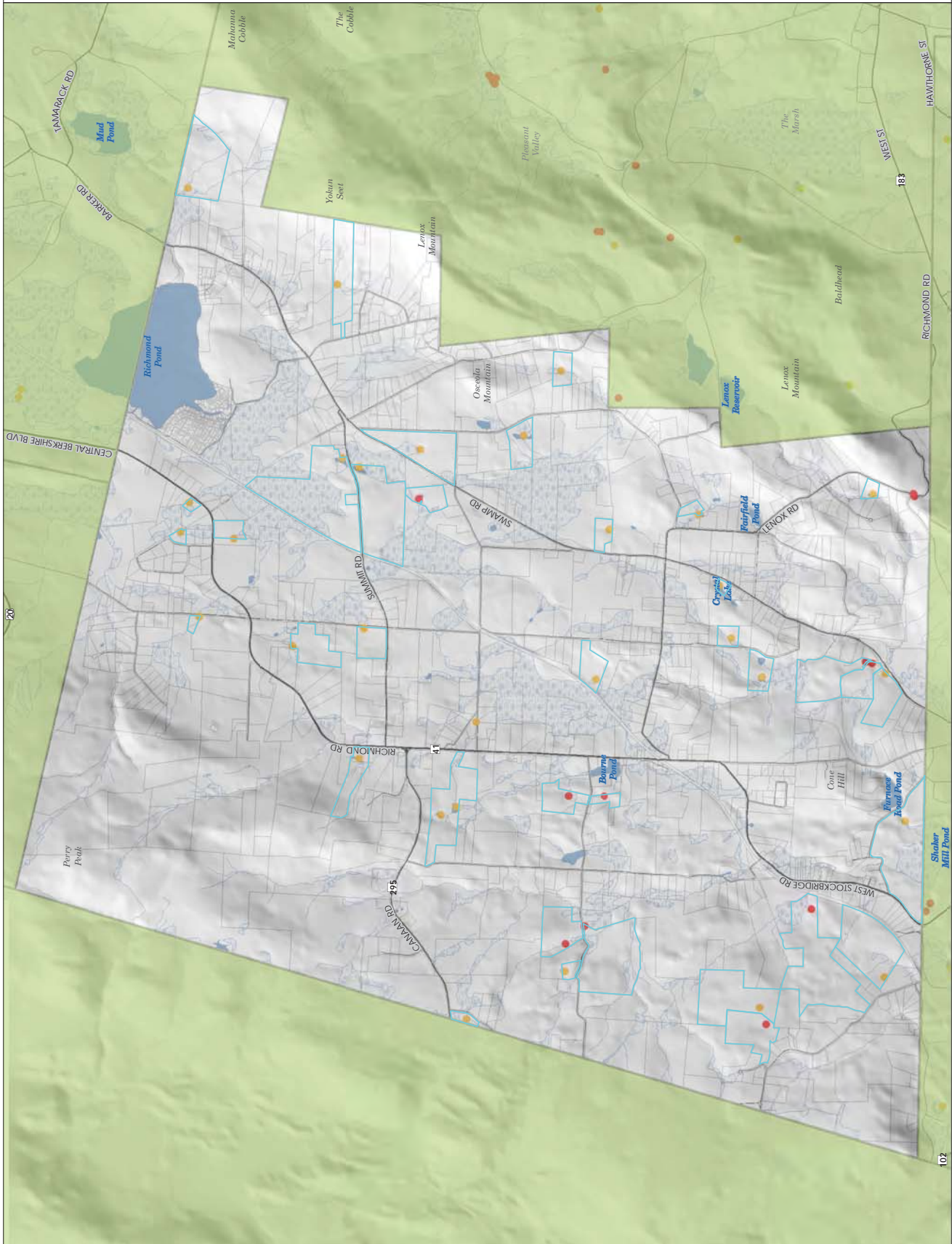
Open Space and Recreation Plan

MAP J: Vernal Pools

- Certified Vernal Pool
- Potential Vernal Pool
- ▭ Parcels
- ▭ Towns
- ▬ Interstate
- ▬ Major Road
- ▬ Minor Road
- ▬ Local Road
- ▬ Stream
- ▬ Wetland
- ▬ Open Water



This map was created by the Berkshire Regional Planning Commission and is intended for general planning purposes only. This map shall not be used for engineering, survey, or legal purposes. The map is based on GIS data provided by the Massachusetts Department of Transportation (MassDOT) and the Massachusetts Department of Environmental Protection (MassDEP). The map is not a warranty, representation, or endorsement by the Commission or the municipality may have supplied portions of this data.



APPENDIX C: ADA SELF EVALUATION



TOWN OF RICHMOND

Town Hall

1529 State Road

Richmond, Massachusetts 01254

Main Office: (413) 698-3355

Fax: (413) 698-3272

To whom it may concern:

The Town of Richmond is committed to providing access to its facilities and programs to all citizens, including those with disabilities. To confirm this commitment, the Town has appointed Town Administrator, Matthew M. Kerwood as its ADA Coordinator. In this role, Mr. Kerwood is responsible for ensuring the Town's compliance with the ADA, investigating complaints related to accessibility and recommending ways to address complaints.

The Town of Richmond does not discriminate on the basis of disability, and public notice of this policy has been in town hall and in five locations throughout town.

Matthew M. Kerwood
ADA Coordinator



TOWN OF RICHMOND

Town Hall

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Richmond, Massachusetts 01254

Main Office: (413) 698-3355

Fax: (413) 698-3272

Town of Richmond Grievance Procedure under The Americans with Disabilities Act

This Grievance Procedure is established to meet the requirements of the Americans with Disabilities Act of 1990 ("ADA"). It may be used by anyone who wishes to file a complaint alleging discrimination on the basis of disability in the provision of services, activities, programs, or benefits by the Town of Richmond. The Town's Personnel Policy governs employment-related complaints of disability discrimination.

The complaint should be in writing and contain information about the alleged discrimination such as name, address, phone number of complainant and location, date, and description of the problem. Alternative means of filing complaints, such as personal interviews or a tape recording of the complaint, will be made available for persons with disabilities upon request.

The complaint should be submitted by the grievant and/or his/her designee as soon as possible but no later than 60 calendar days after the alleged violation to:

Matthew M. Kerwood
Town Administrator/ADA Coordinator
1529 State Road
Richmond, MA 01254

Within 15 calendar days after receipt of the complaint, Mr. Kerwood or his designee will meet with the complainant to discuss the complaint and the possible resolutions.

Within 15 calendar days of the meeting, Mr. Kerwood or his designee will respond in writing, and where appropriate, in a format accessible to the complainant, such as large print, Braille, or audio tape. The response will explain the position of the Town of Richmond and offer options for substantive resolution of the complaint.

If the response by Mr. Kerwood or his designee does not satisfactorily resolve the issue, the complainant and/or his/her designee may appeal the decision within 15 calendar days after receipt of the response to the Board of Selectmen.

Within 15 calendar days after receipt of the appeal, the Board of Selectmen will meet with the complainant to discuss the complaint and possible resolutions. Within 15 calendar days after the meeting, the Board of Selectmen will respond in writing, and, where appropriate, in a format accessible to the complainant, with a final resolution of the complaint.

All written complaints received by Mr. Kerwood or his designee, appeals to the Board of Selectmen, and responses from these two offices will be retained by the Town of Richmond for at least three years.



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Richmond does not discriminate on the basis of disability in admission to, access to, or in the operation of its programs, services or activities. Richmond does not discriminate on the basis of disability in its hiring or employment practices.

This notice is provided as required by Title II of the Americans with Disabilities Act (ADA) of 1990.

Questions, concerns, complaints or requests for additional information regarding the ADA may be forwarded to Richmond's designated ADA coordinator.

Matthew M. Kerwood

Town Administrator

Town Hall

1529 State Road

Richmond, MA 01254

(413) 698-3882 phone

(413) 698-3272 Fax

m.kerwood@richmondma.org

Office hours: M-F 9:00AM-5:00PM

Individuals who need auxiliary aids for effective communication in programs and services of Richmond are invited to make their needs and preferences known to the ADA coordinator.

This notice is available in large print, and audiotape from the ADA coordinator.



TOWN OF RICHMOND

Town Hall

1529 State Road

Richmond, Massachusetts 01254

Main Office: (413) 698-3355

Fax: (413) 698-3272

Program applicants, members of the general public, employees, job applicants, and others are entitled to participate in and benefit from all town programs, activities, and services without regard to disability.

Copies of this notice are available upon request in alternate print format such as large print, audiotape, and computer disk. The Town's grievance procedure, self-evaluation, as well as ADA policies, practices and procedures are also available upon request.

Contact:

Matthew M. Kerwood

ADA Coordinator

(413) 698-3882

1529 State Road

Richmond, MA 01254



TOWN OF RICHMOND

Town Hall

1529 State Road

Richmond, Massachusetts 01254

Main Office: (413) 698-3355

Fax: (413) 698-3272

The Town of Richmond is proud to be an equal opportunity employer and applicants are considered for all positions without regard to race, color, creed, religion, sex, national origin, age, sexual preference, or the presence of a non-job related medical condition or handicap.

Matthew M. Kerwood
ADA Coordinator



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PROGRAM ACCESSIBILITY

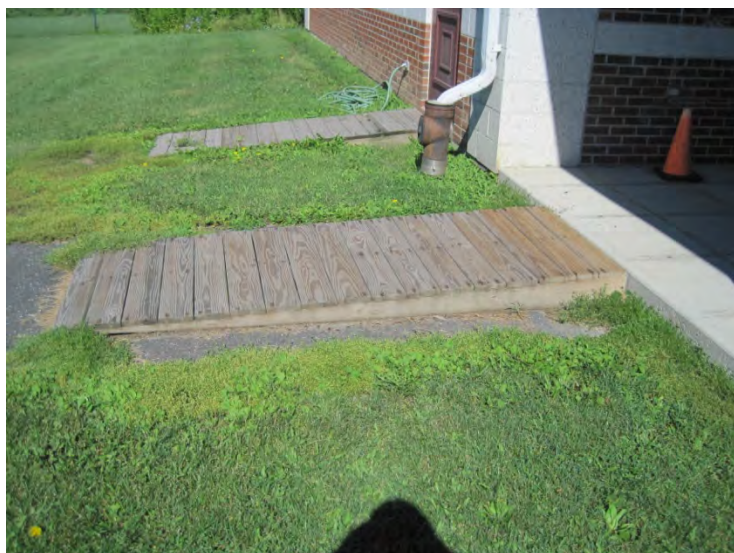
In developing the 2015-2020 Open Space and Recreation Plan, the Open Space Committee discussed the required recreation programs and lands inventory. Richmond maintains all of its recreation facilities and programs open to the general public and accessible to individuals with disabilities. The Town Hall has a ramp, the library and school have accessible entrances. The school has an elevator making all floors accessible to those with limited mobility.

Matthew M. Kerwood
ADA Coordinator

Richmond ADA Open Space and Recreation Transition Plan

A. Inventory of Open Spaces and Recreation Areas

Richmond School Playground



The only disabled access to the playground was through the school itself. The doors on the side of the school led out to a wooden ramp shown above. There are several issues with gaps at the beginning and the end of the ramp that may make wheelchair movement difficult.



The ramp leads to a paved path shown in the above photo. The path is of a steep grade and is rough in certain areas. Appropriate regrading of the path is needed to meet accessibility requirements.



At the bottom of the path, the connection to the playground has a large gap that would make wheelchair transitions difficult.



The playground equipment itself has a transition area that meets ADA requirements. Most likely, there are no pressing accessibility issues with the playground equipment.



There are many swings available on the swing set, although none that are ADA accessible. This would be a simple addition in order to improve accessibility at the recreation area.

Richmond Tennis Court



There is no accessible path to the tennis courts and the mowed grass path itself is of a very steep grade. The gate of the tennis court is also inaccessible and cannot be opened with a closed fist.

Richmond Town Beach



There are several accessibility recommendations that could be made at the Richmond Town Beach. There were no designated ADA designated parking spaces. The Town should designate ADA spaces in the lot with signage.

In addition, none of the picnic tables located throughout the park were wheelchair accessible, meaning there was not available space underneath the tables. The purchase and placement of at least one wheelchair accessible table could improve accessibility of the park.

The portable restroom was also not ADA accessible and the only public restroom available at the park. The restroom could be replaced with a larger more accessible one, allowing for use by those with disabilities and creating greater comfort for those without.

B. Transition Plan

Richmond Consolidated School Playground

Physical Obstacles	Actions to Be Taken	Date to Be Completed	Responsible Party
Height Gap on Wooden Ramp	Replace wooden ramp with one that allows for smooth transition	2021	School
Steep Paved Path	Repave / regrade path to meet accessibility requirements	2021	School
Gap at the end of the Paved Path	Repave path to allow for smooth transition	2021	School
No ADA Swing Set Options	Install or replace a swing with an appropriate ADA accessible swing or other accessible equipment	2021	School

Richmond Tennis Court

Physical Obstacles	Actions to Be Taken	Date to Be Completed	Responsible Party
No Accessible Path	Create a new accessible path to the entrance of the court	2021	DPW
Inaccessible Gate	Replace gate latch with one that can be opened with a closed fist	2021	DPW

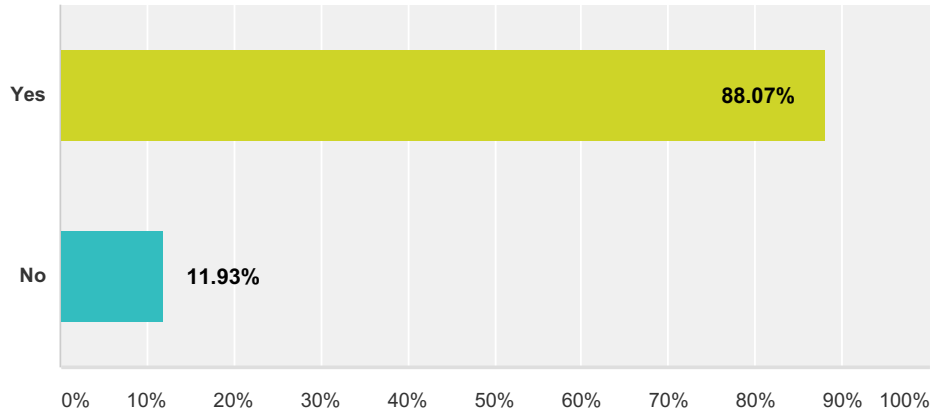
Richmond Town Beach

Physical Obstacles	Actions to Be Taken	Date to Be Completed	Responsible Party
Unmarked Parking Area	Designate ADA accessible parking spaces	2021	DPW
No ADA Accessible Picnic Tables	Purchase and install an ADA accessible table, preferably near a picnic grill	2021	DPW
Restroom Inaccessible	Replace portable restroom with an accessible one	2021	DPW

APPENDIX D: SURVEY RESULTS

Q1 Do you feel there is a need to preserve additional open space in the town of Richmond?

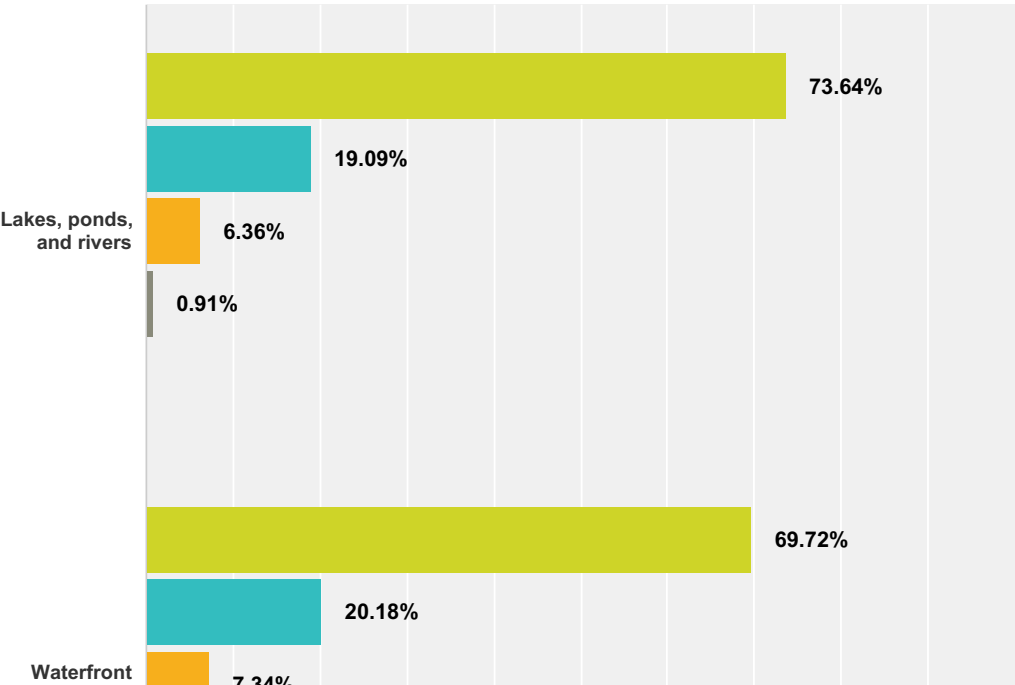
Answered: 109 Skipped: 4



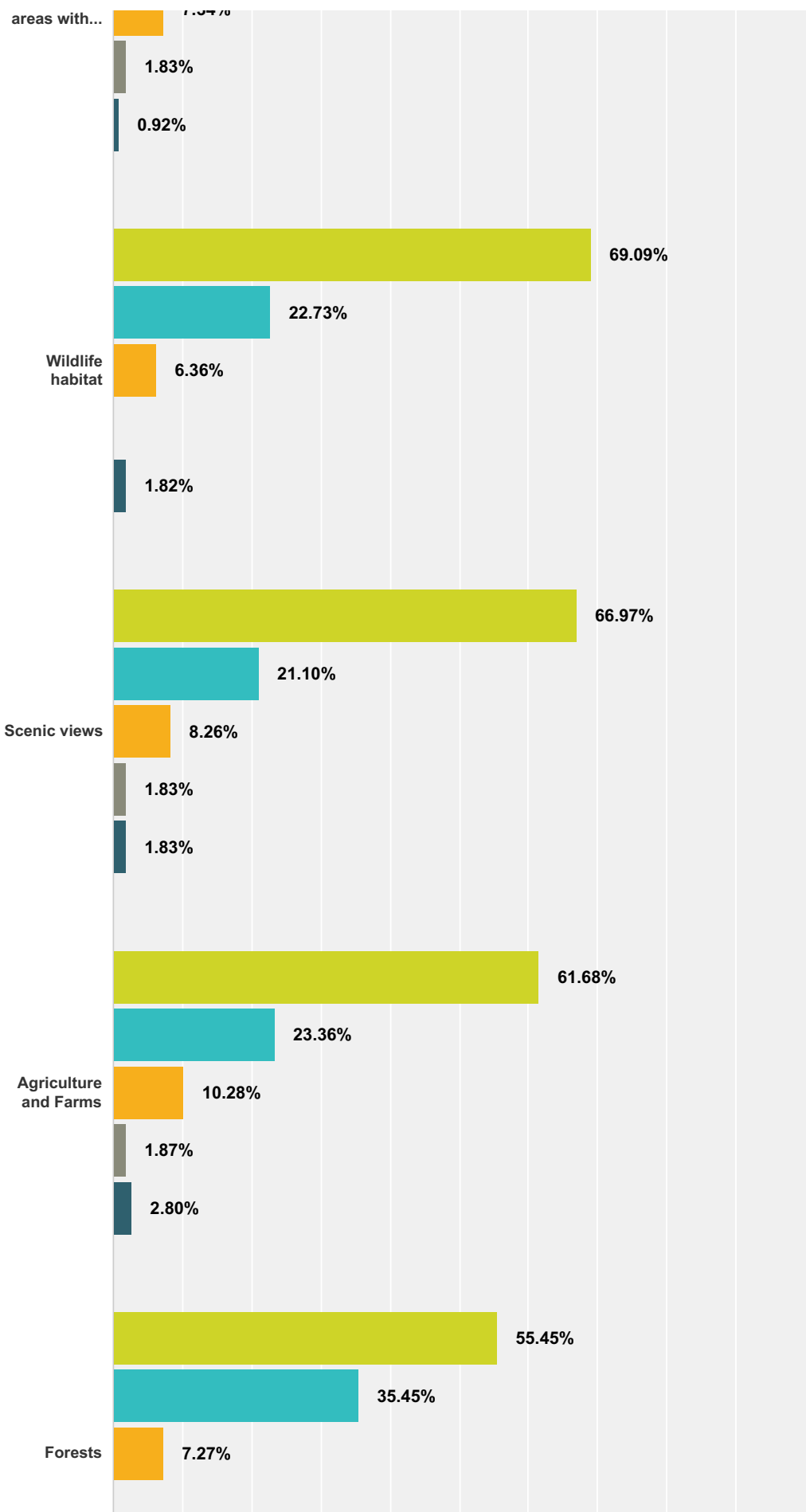
Answer Choices	Responses	
Yes	88.07%	96
No	11.93%	13
Total		109

Q2 How important is it for Richmond to preserve additional open space of the following types? (Please answer all)

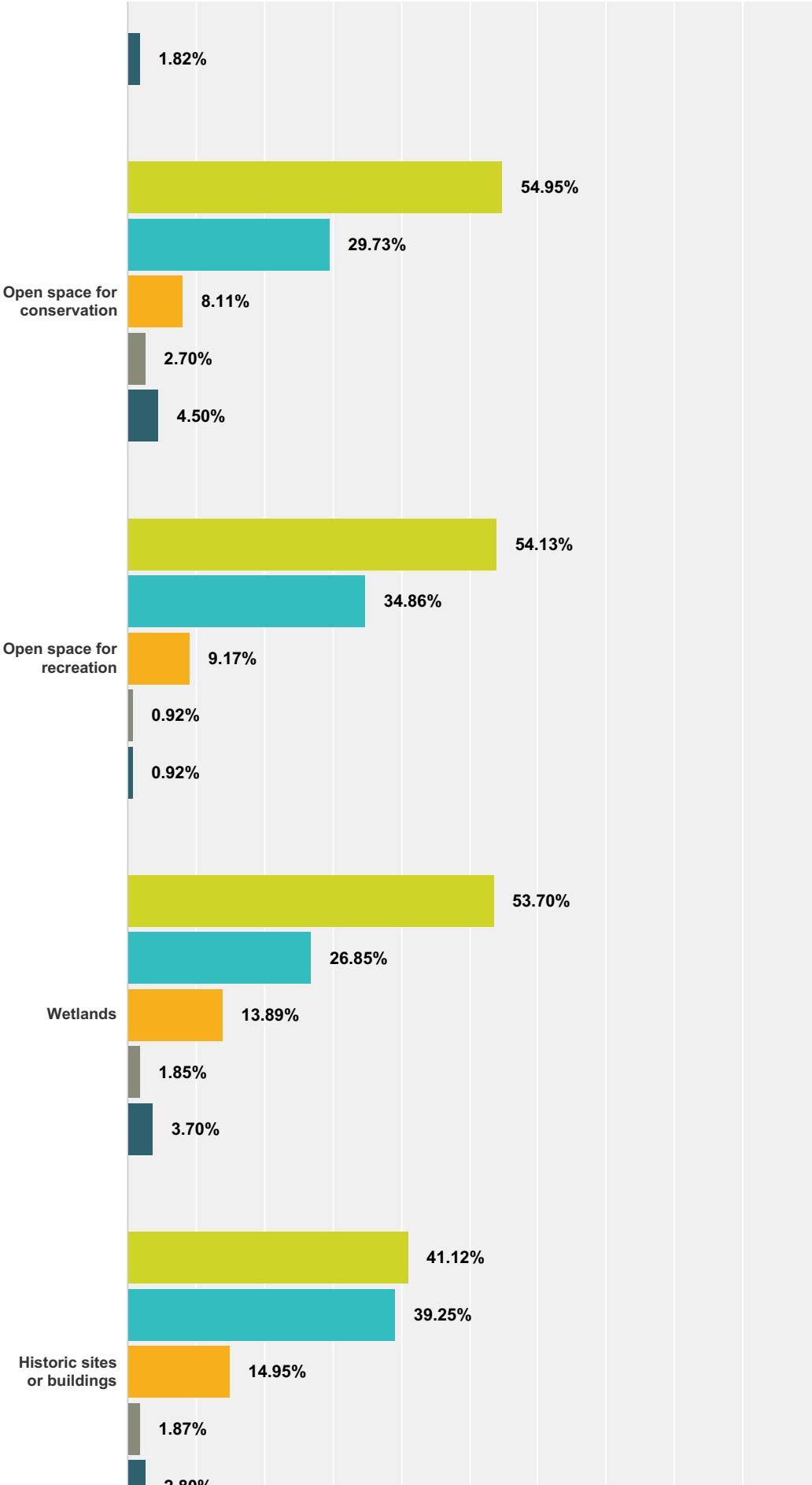
Answered: 111 Skipped: 2



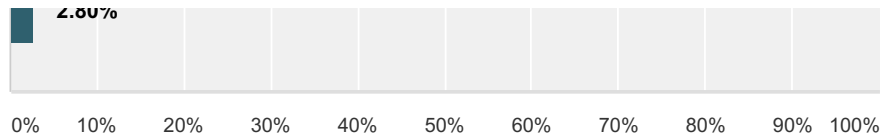
Richmond Open Space and Recreation Survey



Richmond Open Space and Recreation Survey



Richmond Open Space and Recreation Survey



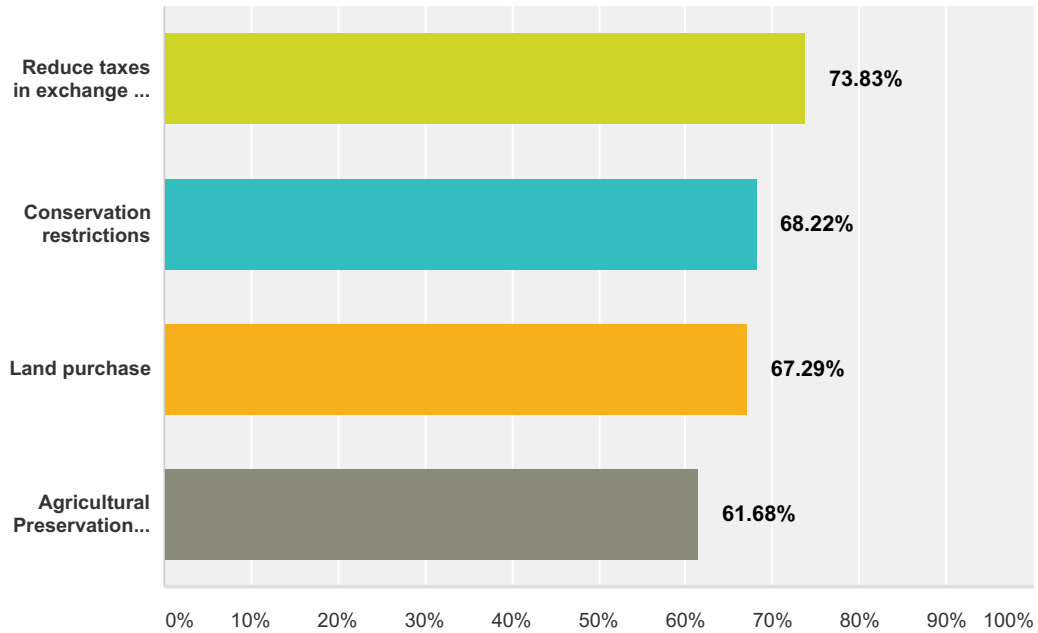
■ Most important
 ■ Somewhat important
 ■ Neither important or unimportant
 ■ Somewhat unimportant
 ■ Not important at all

	Most important	Somewhat important	Neither important or unimportant	Somewhat unimportant	Not important at all	Total
Lakes, ponds, and rivers	73.64% 81	19.09% 21	6.36% 7	0.91% 1	0.00% 0	110
Waterfront areas with public access	69.72% 76	20.18% 22	7.34% 8	1.83% 2	0.92% 1	109
Wildlife habitat	69.09% 76	22.73% 25	6.36% 7	0.00% 0	1.82% 2	110
Scenic views	66.97% 73	21.10% 23	8.26% 9	1.83% 2	1.83% 2	109
Agriculture and Farms	61.68% 66	23.36% 25	10.28% 11	1.87% 2	2.80% 3	107
Forests	55.45% 61	35.45% 39	7.27% 8	0.00% 0	1.82% 2	110
Open space for conservation	54.95% 61	29.73% 33	8.11% 9	2.70% 3	4.50% 5	111
Open space for recreation	54.13% 59	34.86% 38	9.17% 10	0.92% 1	0.92% 1	109
Wetlands	53.70% 58	26.85% 29	13.89% 15	1.85% 2	3.70% 4	108
Historic sites or buildings	41.12% 44	39.25% 42	14.95% 16	1.87% 2	2.80% 3	107

Q3 What land conservation tools should the Town of Richmond use to preserve additional open space? (Check all that apply)

Answered: 107 Skipped: 6

Richmond Open Space and Recreation Survey



Answer Choices	Responses
Reduce taxes in exchange for conservation of private land	73.83% 79
Conservation restrictions	68.22% 73
Land purchase	67.29% 72
Agricultural Preservation Restriction (APR)	61.68% 66
Total Respondents: 107	

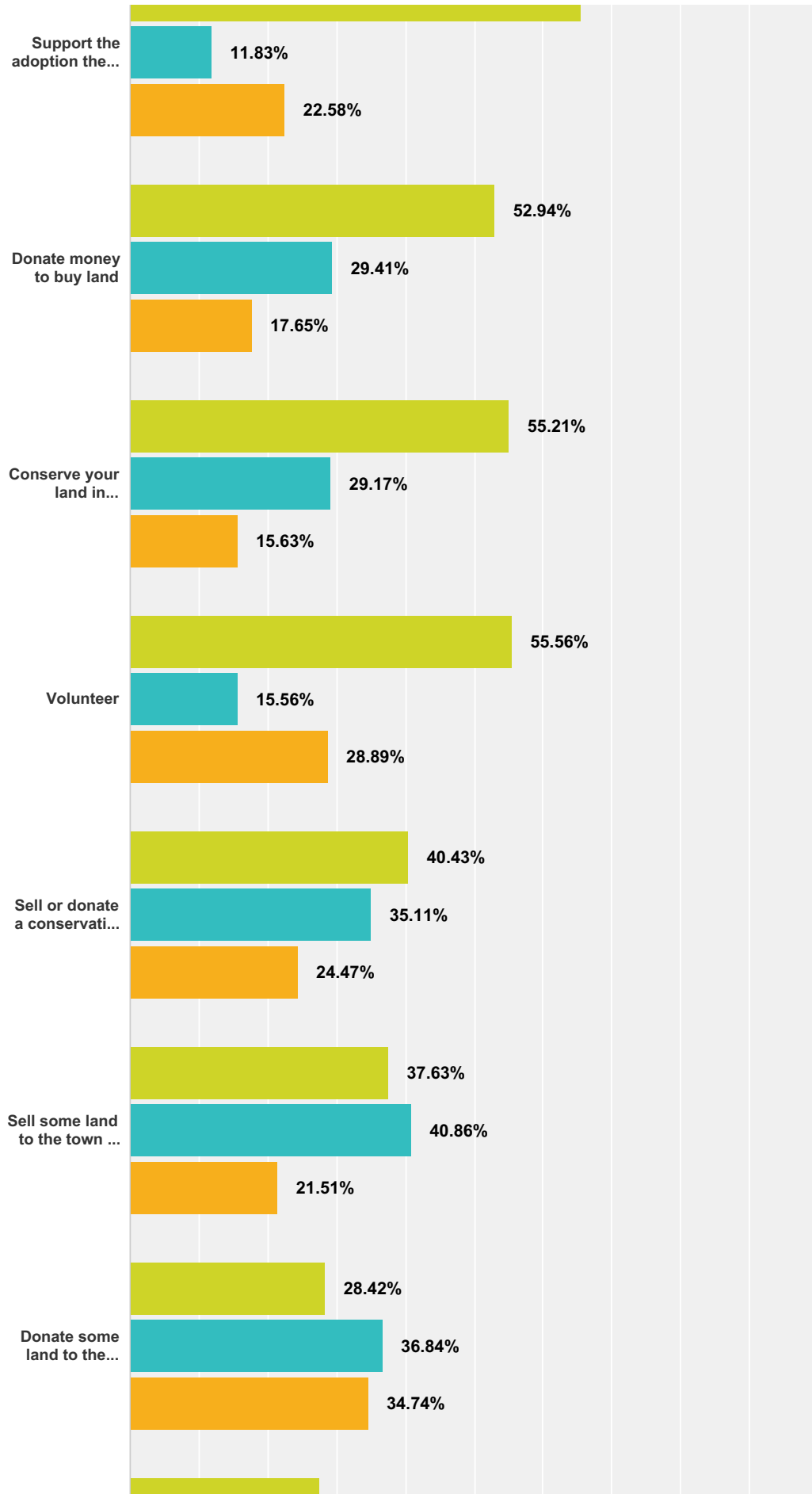
#	Other (please specify)	Date
1	these choices require prior knowledge that I don't have, what are the implications of each?	6/4/2015 10:12 PM
2	STOP TAKING LAND OFF THE TAX ROLLS AND RESTRICTING BUILDING	5/29/2015 3:57 PM
3	Community Rights Ordinance	5/29/2015 11:58 AM
4	buy land	5/26/2015 1:21 PM
5	Encourage landowners with large acreages to enter into Chapter 61 restrictions.	5/8/2015 2:00 PM
6	Partner with non-municipal organizations whose mission is open space conservation	4/26/2015 8:56 PM
7	None	4/24/2015 7:19 PM
8	Zoning	4/24/2015 2:25 PM
9	Nothing we already have too much land in the hands of the rich and the town that pay no taxes	4/24/2015 12:41 PM

Q4 To support the preservation of additional open space in Richmond, would you do the following?

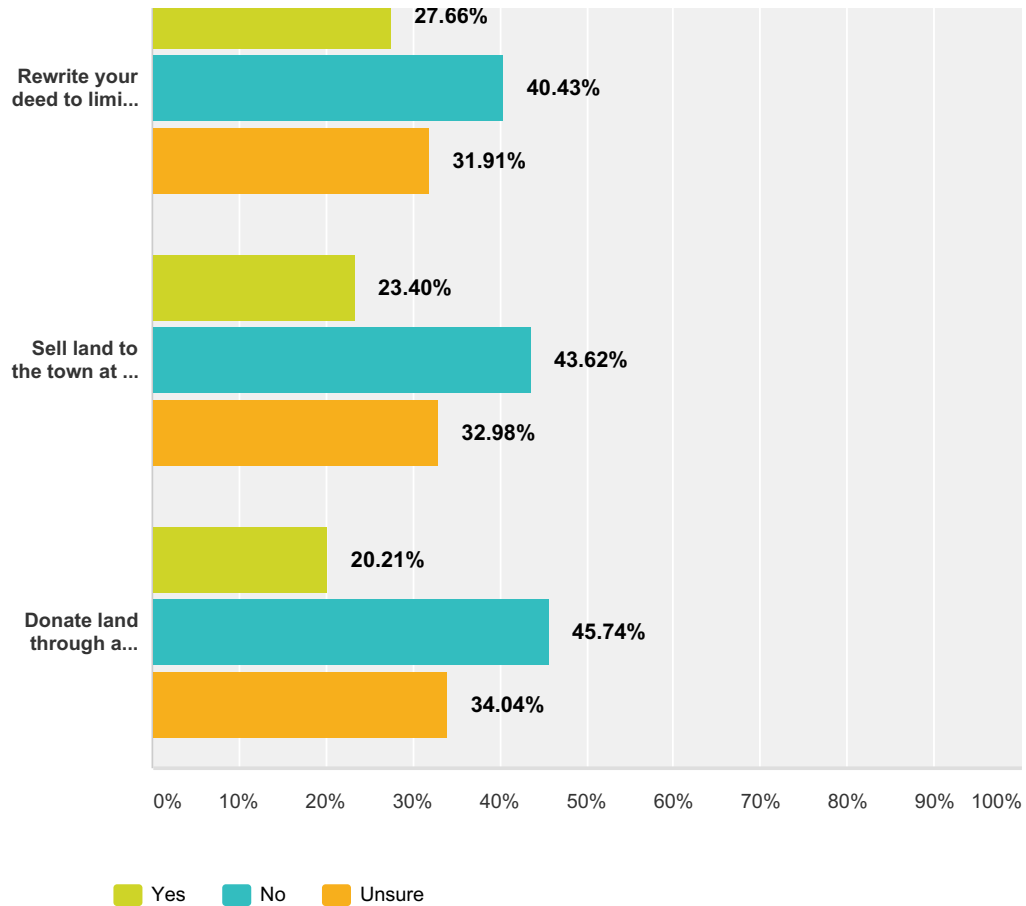
Answered: 108 Skipped: 5



Richmond Open Space and Recreation Survey



Richmond Open Space and Recreation Survey



	Yes	No	Unsure	Total
Support the adoption the Community Preservation Act (CPA) by the town	65.59% 61	11.83% 11	22.58% 21	93
Donate money to buy land	52.94% 54	29.41% 30	17.65% 18	102
Conserve your land in exchange for reduced taxes	55.21% 53	29.17% 28	15.63% 15	96
Volunteer	55.56% 50	15.56% 14	28.89% 26	90
Sell or donate a conservation restriction to protect your land from future development	40.43% 38	35.11% 33	24.47% 23	94
Sell some land to the town at fair market value	37.63% 35	40.86% 38	21.51% 20	93
Donate some land to the town or a land trust	28.42% 27	36.84% 35	34.74% 33	95
Rewrite your deed to limit future development of your land	27.66% 26	40.43% 38	31.91% 30	94
Sell land to the town at a "bargain price" (less than fair market value)	23.40% 22	43.62% 41	32.98% 31	94
Donate land through a bequest in your will	20.21% 19	45.74% 43	34.04% 32	94

#	Other (please specify)	Date
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Richmond Open Space and Recreation Survey

1	I don't have any land to bargain with	5/22/2015 10:45 AM
2	Our land is only 2.5 acres, the minimum size for a house, which we have built, so most of these do not apply.	5/19/2015 4:41 PM
3	not in a financial position to donate land or otherwise reduce assets	5/13/2015 8:16 PM
4	view over malnati farm from east road	5/13/2015 12:45 PM
5	If I had more than 2.8 acres I would do more of the above!	5/13/2015 12:35 PM
6	We already are bounded by conservation land	5/5/2015 7:59 AM
7	Details on CPA please	4/26/2015 3:30 PM
8	Change zoning to enable cluster development	4/24/2015 2:25 PM

Q5 What is the single biggest threat to open space in Richmond? (List only one)

Answered: 83 Skipped: 30

#	Responses	Date
1	Residential Development subdivision development	6/9/2015 4:12 PM
2	Development Development	6/8/2015 10:44 AM
3	Pollution pollution	6/7/2015 8:35 PM
4	Nothing/Dont know Nothing that I can think of at the moment	6/5/2015 12:22 PM
5	Zoning Zoning changes	6/5/2015 11:23 AM
6	Development housing developments	6/5/2015 11:19 AM
7	Pollution Pollution	6/2/2015 10:48 AM
8	Residential Development Overbuilding housing	6/1/2015 4:56 PM
9	People / Greed / Apathy rich city peopls	5/29/2015 10:04 PM
10	Development swamp encroachment	5/29/2015 8:53 PM
11	Pipeline Fossil Fuel Infrastructure	5/29/2015 11:58 AM
12	Pipeline possible pipelines	5/29/2015 11:44 AM
13	Development Development	5/29/2015 11:01 AM
14	Residential Development Large Housing Developers	5/29/2015 10:26 AM
15	Residential Development Mc Mansions (10 in the last 5 10 years <1 mile from my house on Dublin Road!)	5/27/2015 9:37 AM
16	Development People who come in and want to develop open spaces for themselves or financial gain	5/26/2015 4:53 PM
17	People / Greed / Apathy make open land more important than people who want to live here	5/26/2015 1:21 PM
18	Residential Development Over-development (residential)	5/25/2015 5:38 PM
19	Residential Development McMansions	5/24/2015 1:34 PM
20	Pipeline gas pipelines	5/24/2015 11:08 AM
21	Loss of Town Character loss of who or what is Richmond	5/22/2015 6:15 PM
22	Development development of any kind	5/22/2015 10:57 AM
23	Lack of Access Not being able to use it	5/22/2015 10:45 AM
24	Development Commercial development	5/22/2015 10:38 AM

Richmond Open Space and Recreation Survey

25	Development McMansions	5/22/2015 10:34 AM
26	Pipeline Pipeline	5/20/2015 5:41 PM
27	Residential Development Second-home development	5/19/2015 4:41 PM
28	Development developers	5/19/2015 6:18 AM
29	Residential Development sale for development	5/18/2015 10:55 AM
30	People / Greed / Apathy non caring government	5/17/2015 12:43 PM
31	Residential Development building houses on open land	5/16/2015 12:08 PM
32	People / Greed / Apathy greed	5/15/2015 12:47 PM
33	Development new road construction	5/15/2015 10:36 AM
34	Zoning Re-zoning 2.5 acre restriction	5/15/2015 9:39 AM
35	Residential Development McMansions	5/13/2015 10:09 PM
36	Residential Development residential development	5/13/2015 8:16 PM
37	Zoning The current zoning law	5/13/2015 2:51 PM
38	Residential Development New Homes	5/13/2015 2:22 PM
39	Development careless development	5/13/2015 12:45 PM
40	Development development	5/13/2015 12:35 PM
41	Development development	5/13/2015 12:12 PM
42	Development Overdevelopment of privately owned land	5/10/2015 8:30 AM
43	Aging Population The aging population. If Richmond continues to morph into a retirement community for snow birds and other second homeowners, it is likely that larger acreages (i.e., farms and woodlots) will continue to be subdivided in order to cater to increasing demand among seniors/retirees who want to live a "rural-ish" existence without having to assume the responsibilities of managing a large parcel.	5/8/2015 2:00 PM
44	Development man's development of buildings	5/8/2015 10:51 AM
45	Fracking fracking—it will ruin all open spaces	5/6/2015 8:42 PM
46	Development Developments	5/6/2015 8:42 PM
47	Residential Development Mega mansions	5/5/2015 7:59 AM
48	Loss of Wetlands People who damage wetlands	5/1/2015 11:48 PM
49	Residential Development McMansions	5/1/2015 10:05 AM
50	Development development	4/30/2015 8:53 AM
51	Residential Development subdivisions & development	4/29/2015 8:49 AM
52	Residential Development Building new houses	4/29/2015 5:49 AM
53	Development Too much development!	4/27/2015 12:45 PM
54	Residential Development building condos	4/27/2015 10:56 AM
55	Residential Development mcmansions	4/27/2015 10:33 AM
56	Residential Development new housing	4/26/2015 8:56 PM
57	Development Development	4/26/2015 3:52 PM
58	Development development	4/26/2015 3:30 PM
59	Residential Development building new houses	4/26/2015 8:53 AM
60	Development Development	4/26/2015 8:45 AM

Richmond Open Space and Recreation Survey

61	Development Development	4/25/2015 8:23 AM
62	Development Development	4/24/2015 7:51 PM
63	Residential Development Housing development	4/24/2015 7:36 PM
64	Environmentalists Enviromentalists	4/24/2015 7:19 PM
65	Residential Development new homes taking over open space	4/24/2015 5:57 PM
66	Development OVER DEVELOPMENT OF PRIVATE PROPERTY	4/24/2015 5:46 PM
67	Development Zoning Development - particularly reduced-lot-sized development	4/24/2015 2:26 PM
68	Zoning Zoning to chop the road frontage and land into small parcels (already accomplished).	4/24/2015 2:25 PM
69	Residential Development New housing	4/24/2015 1:58 PM
70	Residential Development Building new homes instead of buying existing homes for sale	4/24/2015 1:38 PM
71	Loss of Farms Decreased farming	4/24/2015 1:29 PM
72	Development building and redeveloping	4/24/2015 1:08 PM
73	Lack of a plan Lack of an agreed upon plan.	4/24/2015 1:05 PM
74	Becoming Less Rural Becoming less rural	4/24/2015 12:59 PM
75	Development Overdevelopment	4/24/2015 12:57 PM
76	Development More building	4/24/2015 12:43 PM
77	Land Trust The Richmond Land Trust and their mismanagement is the biggest threat to open space in Richmond	4/24/2015 12:41 PM
78	Residential Development LARGE NEW HOMES	4/24/2015 12:31 PM
79	Residential Development Wealthy development	4/24/2015 12:29 PM
80	Residential Development Condos	4/24/2015 12:29 PM
81	Loss of Farms Loss of Farms	4/24/2015 12:29 PM
82	Residential Development second homes	4/24/2015 12:27 PM
83	Loss of Farms Loss of farms	4/24/2015 12:25 PM

Q6 What is your favorite open space in Richmond? (List only one)

Answered: 91 Skipped: 22

#	Responses	Date
1	Other my backyard	6/9/2015 4:12 PM
2	Hollow Fields BNRC at Perry's Peak Road	6/8/2015 10:44 AM
3	Richmond Pond Richmond pond	6/7/2015 8:35 PM
4	Other My own woods	6/5/2015 12:22 PM
5	Other Cow farm/ hill on Swamp	6/5/2015 11:23 AM
6	Malnati Farm malnati's farm (east road)	6/5/2015 11:19 AM
7	Olivia's Overlook Olivia's overlook hiking area	6/4/2015 10:12 PM
8	Hollow Fields Hollow Fields Reserve	6/2/2015 10:48 AM
9	Boynton Field Boynton's lot between East Rd. and Osceola Rd.	6/1/2015 4:56 PM

Richmond Open Space and Recreation Survey

10	East Road/Views from Rd. Farm off East Rd	5/31/2015 1:33 PM
11	All like them all	5/29/2015 10:04 PM
12	Richmond Pond Richmond Pond	5/29/2015 8:53 PM
13	Perry's Peak Perry's Peak	5/29/2015 11:58 AM
14	Lenox Road Lenox Road	5/29/2015 11:44 AM
15	Hollow Fields hollow Fields	5/29/2015 11:33 AM
16	Malnati Farm The farm at Swamp and Lenox	5/29/2015 11:01 AM
17	Steven's Glen Stephen's Glen	5/27/2015 9:37 AM
18	Malnati Farm Malnatis Farm	5/26/2015 4:53 PM
19	Hollow Fields hollow farm	5/26/2015 1:21 PM
20	Richmond Pond Richmond Shores	5/25/2015 5:38 PM
21	Richmond Pond Richmond pond	5/24/2015 1:34 PM
22	Orchard bartletts orchard	5/24/2015 11:08 AM
23	Perry's Peak Perrys peak	5/22/2015 8:11 PM
24	East Road/Views from Rd. East Rd area	5/22/2015 6:15 PM
25	Richmond Pond area around Richmond Pond	5/22/2015 10:57 AM
26	Fire Tower Old Fire tower off Osceola Road	5/22/2015 10:45 AM
27	East Road/Views from Rd. East Road	5/22/2015 10:38 AM
28	Richmond Pond Richmond Pond	5/22/2015 10:34 AM
29	Richmond Pond Richmond Pond	5/19/2015 4:41 PM
30	Malnati Farm Richmond Pond	5/19/2015 8:59 AM
31	Malnati Farm The old Malnati farm on East Road	5/18/2015 10:55 AM
32	Richmond Pond Richmond Pond	5/17/2015 2:29 PM
33	East Road/Views from Rd. bench on East Road	5/17/2015 12:43 PM
34	Heron Rookery heron rookery	5/16/2015 12:08 PM
35	Richmond Pond Richmond Pond	5/15/2015 10:36 AM
36	Perry's Peak Perry's Peak area	5/15/2015 9:39 AM
37	Malnati Farm Malnati farm/Lenox Road	5/14/2015 10:09 PM
38	Lenox Mtn. Lenox Mountain	5/13/2015 10:09 PM
39	Malnati Farm malnati farm	5/13/2015 8:16 PM
40	East Road/Views from Rd. The view from the bench on EastRd.	5/13/2015 2:51 PM
41	Perry's Peak Perry's peak	5/13/2015 2:22 PM
42	Boynton Field boyton property	5/13/2015 12:45 PM
43	Sleepy Hollow Road Sleepy Hollow Road	5/13/2015 12:35 PM
44	Hollow Fields Hollow Fields	5/13/2015 12:12 PM
45	Richmond Pond Richmond Pond	5/10/2015 8:30 AM

Richmond Open Space and Recreation Survey

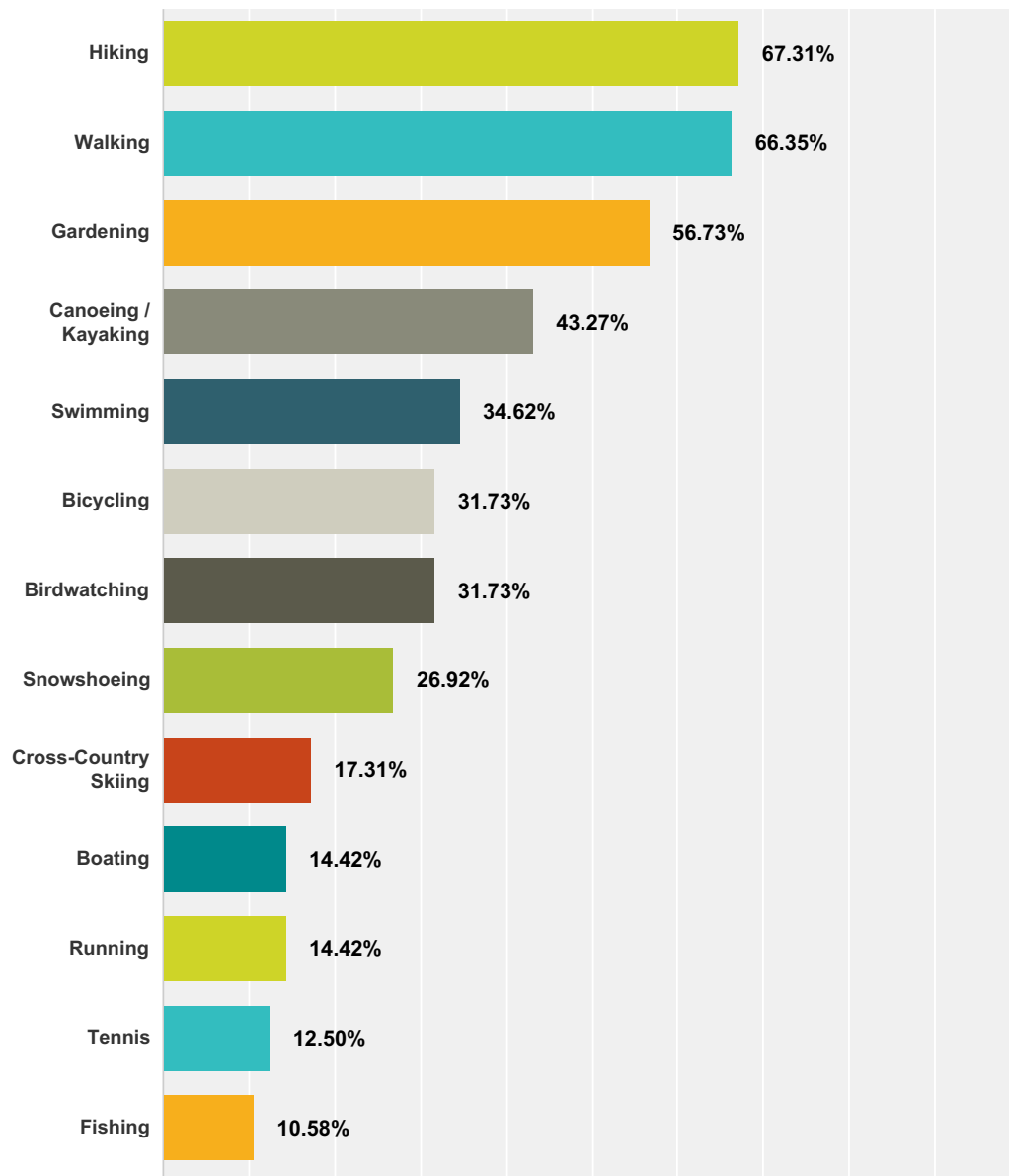
46	Perry's Peak Perry's Peak or the privately-own piece of former ag land on Sleepy Hollow Road that gets stocked with pheasants during the bird season..	5/8/2015 2:00 PM
47	Swamp Road Swamp road and Lenox Mt. Rd	5/8/2015 10:51 AM
48	Boynton Field Boynton Land Trust	5/6/2015 8:42 PM
49	Perry's Peak Perrys Peak	5/6/2015 8:42 PM
50	Boynton Field Boynton Field between Osceola and East Rd	5/5/2015 7:59 AM
51	Richmond Pond Richmond pond	5/1/2015 11:48 PM
52	Malnati Farm Malanatti Farm	5/1/2015 10:05 AM
53	Richmond Pond richmond pond and trails around it	4/30/2015 8:53 AM
54	Richmond Pond Richmond Pond's Watershed	4/29/2015 8:49 AM
55	Camp Marion White Camp Marion white	4/29/2015 5:49 AM
56	East Road/Views from Rd. East Rd	4/28/2015 11:31 AM
57	Richmond Pond Richmond Pond	4/28/2015 10:26 AM
58	East Road/Views from Rd. Views along East Road.	4/27/2015 12:45 PM
59	Camp Russell Camp Russell	4/27/2015 10:56 AM
60	Dirt Roads Open Fields Open fields along dirt roads!	4/26/2015 8:56 PM
61	Richmond Pond Richmond IPpnd	4/26/2015 3:52 PM
62	Fire Tower fire tower	4/26/2015 3:30 PM
63	Perry's Peak Perry's Peak	4/26/2015 8:53 AM
64	Richmond Pond Richmond Pond	4/25/2015 10:57 AM
65	Richmond Pond richmond pond	4/25/2015 8:23 AM
66	Richmond Pond Richmond pond	4/25/2015 6:31 AM
67	Richmond Pond Richmond Pond and it's shoreline	4/24/2015 7:51 PM
68	Richmond Pond Richmond Pond	4/24/2015 7:36 PM
69	Perry's Peak Perry's Peak	4/24/2015 7:19 PM
70	Fmr. Wm. Dixon Land Rt.41 Open Fields The big field(formerly Wm.& Hazel Dixon land on Rt.41)	4/24/2015 5:57 PM
71	None HAVE NONE	4/24/2015 5:46 PM
72	Olivia's Overlook olivia's overlook	4/24/2015 5:09 PM
73	Swamp Road Swamp Road	4/24/2015 3:05 PM
74	Historic Homes 18th century Richmond Homes	4/24/2015 2:26 PM
75	Perry's Peak Perry Peak	4/24/2015 2:25 PM
76	Richmond Pond Richmond POND	4/24/2015 2:05 PM
77	East Road/Views from Rd. Malnati Farm Malnotti farm overlook on East Rd.	4/24/2015 1:58 PM
78	Steven's Glen Stevens Glen	4/24/2015 1:38 PM
79	Open Fields Perry's Peak Fields to Perry's Peak	4/24/2015 1:29 PM
80	East Road/Views from Rd. East Road	4/24/2015 1:08 PM
81	Richmond Pond Richmond Pond	4/24/2015 1:05 PM
82	Lenox Mtn. Lenox Mtn.	4/24/2015 12:59 PM

Richmond Open Space and Recreation Survey

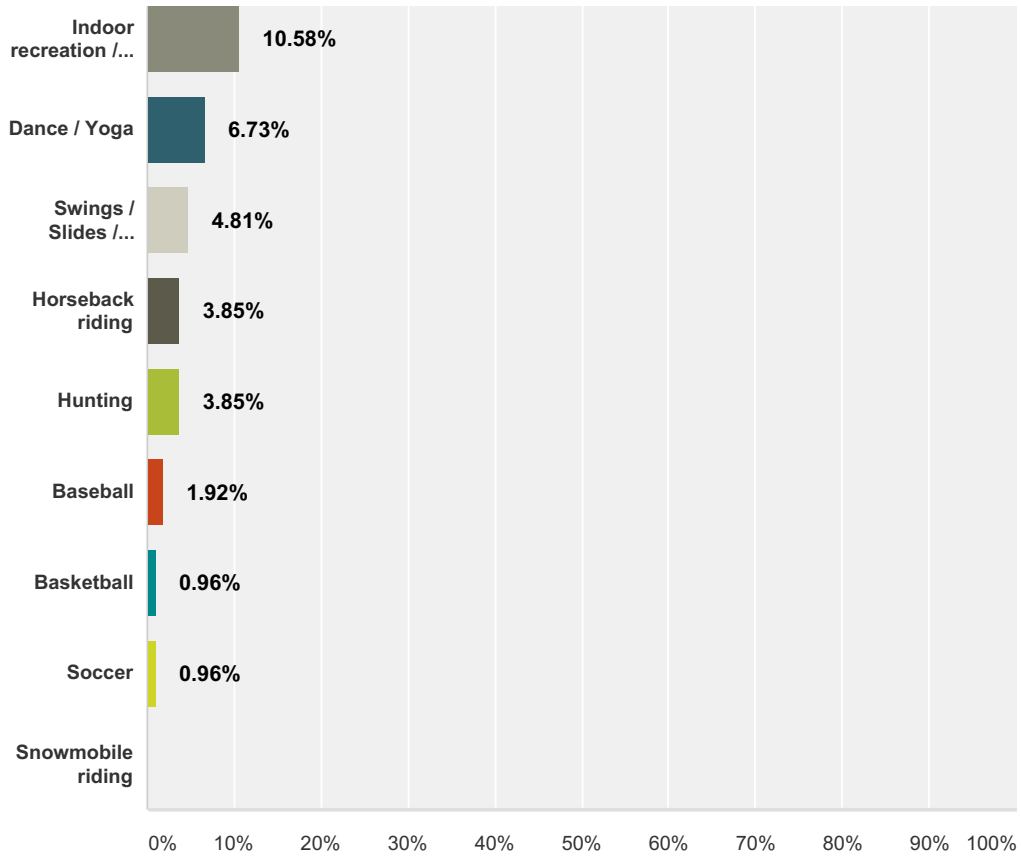
83	East Road/Views from Rd. East Road	4/24/2015 12:57 PM
84	East Road/Views from Rd. Malnati Farm East Road view of Malnati Farm from Reservoir Road	4/24/2015 12:43 PM
85	The ones people pay their fair taxes on	4/24/2015 12:41 PM
86	Open Fields farm fields with open vistas	4/24/2015 12:31 PM
87	Richmond Pond Richmond pond	4/24/2015 12:29 PM
88	East Road/Views from Rd. East Road	4/24/2015 12:29 PM
89	Perry's Peak Perry's Peak	4/24/2015 12:29 PM
90	Perry's Peak Perrys Peak area	4/24/2015 12:27 PM
91	Hollow Fields Hollow Fields	4/24/2015 12:25 PM

Q7 What are the top five (5) recreation activities you enjoy doing in Richmond? (Check a maximum of 5 boxes)

Answered: 104 Skipped: 9



Richmond Open Space and Recreation Survey



Answer Choices	Responses	
Hiking	67.31%	70
Walking	66.35%	69
Gardening	56.73%	59
Canoeing / Kayaking	43.27%	45
Swimming	34.62%	36
Bicycling	31.73%	33
Birdwatching	31.73%	33
Snowshoeing	26.92%	28
Cross-Country Skiing	17.31%	18
Boating	14.42%	15
Running	14.42%	15
Tennis	12.50%	13
Fishing	10.58%	11
Indoor recreation / Fitness activities	10.58%	11
Dance / Yoga	6.73%	7

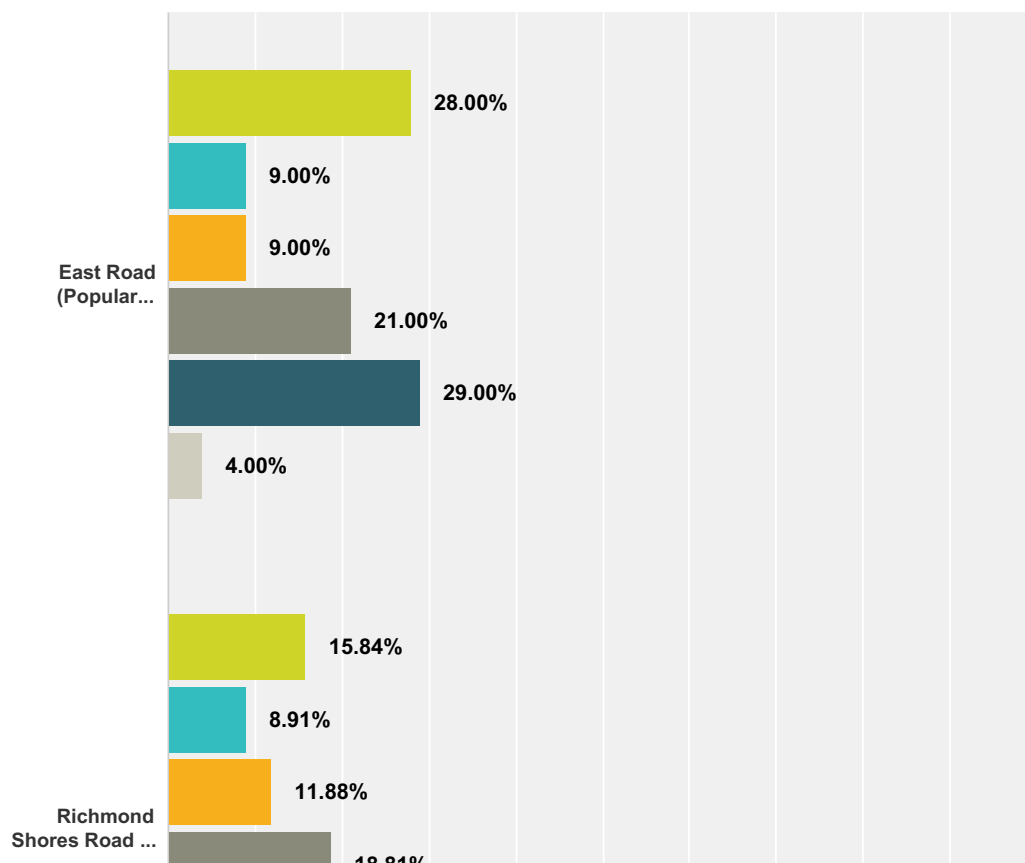
Richmond Open Space and Recreation Survey

Swings / Slides / Playgrounds	4.81%	5
Horseback riding	3.85%	4
Hunting	3.85%	4
Baseball	1.92%	2
Basketball	0.96%	1
Soccer	0.96%	1
Snowmobile riding	0.00%	0
Total Respondents: 104		

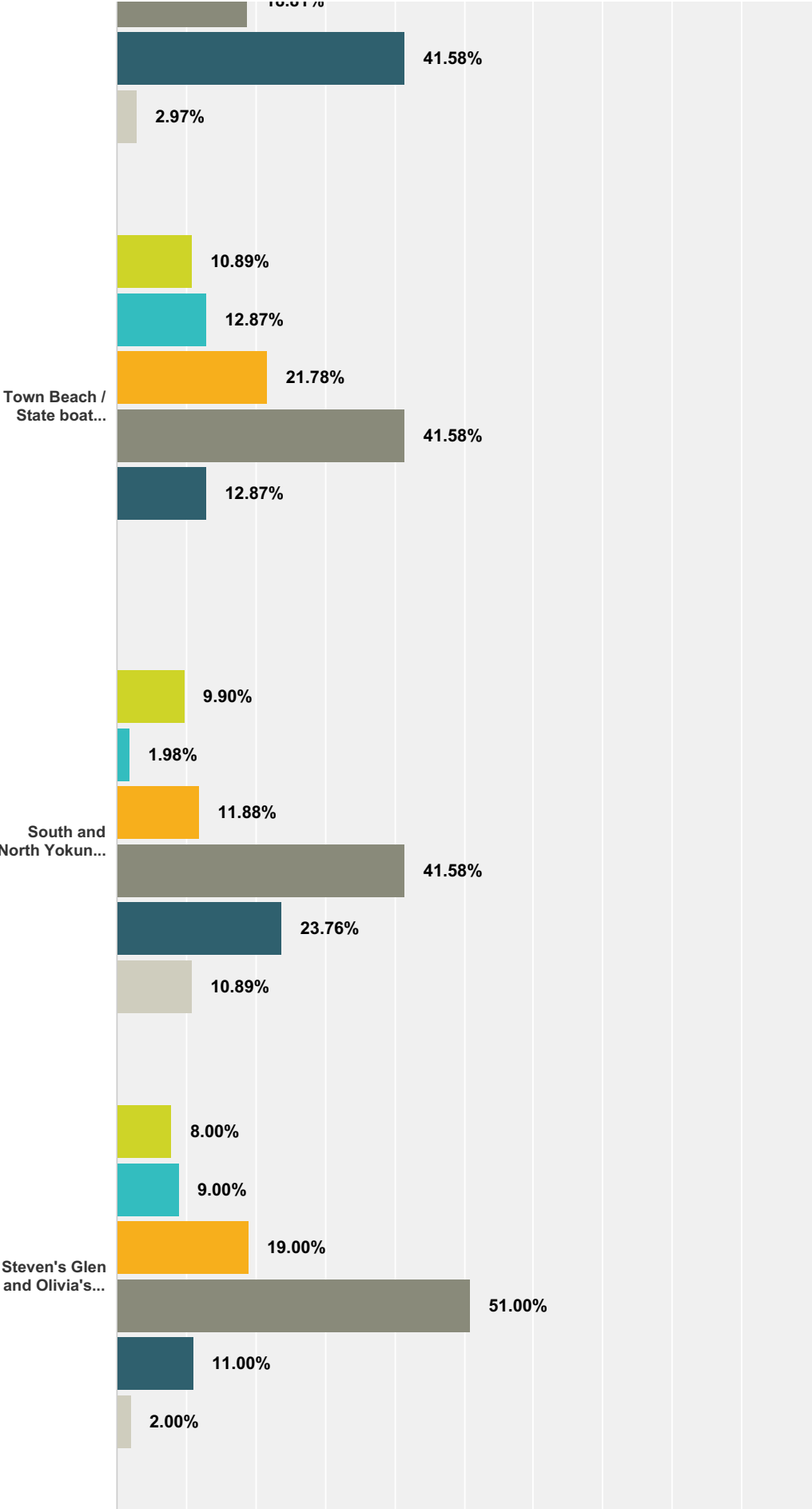
#	Other (please specify)	Date
1	Strven's Glen	5/20/2015 5:48 PM
2	Attendance at concerts and theatre performances.	5/19/2015 4:47 PM
3	walking dogs	5/19/2015 6:25 AM
4	Photography	5/13/2015 10:18 PM
5	Dog walking	4/24/2015 1:18 PM

Q8 How often do you use the following recreation areas in Richmond per year? (Please answer all items)

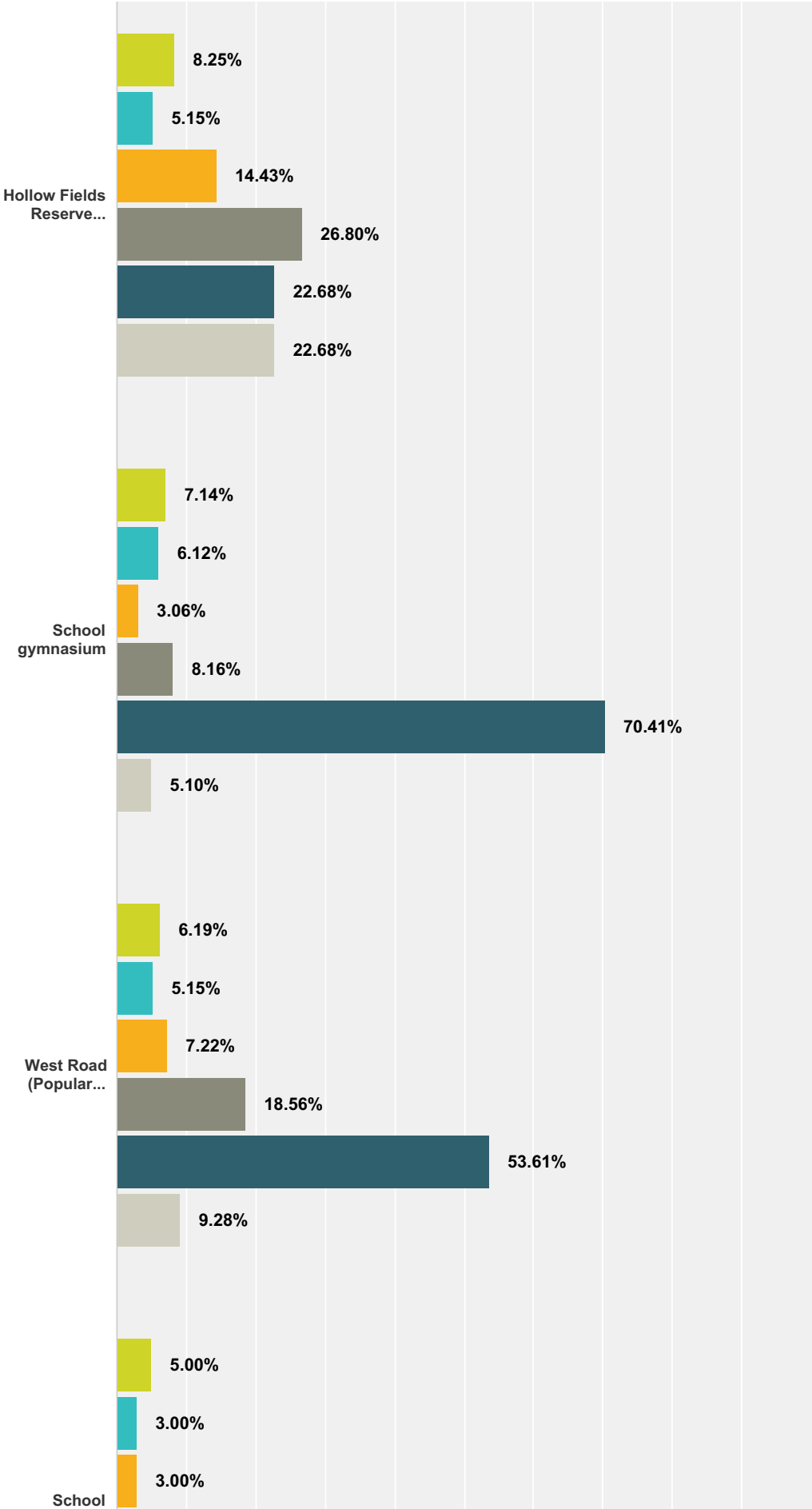
Answered: 103 Skipped: 10



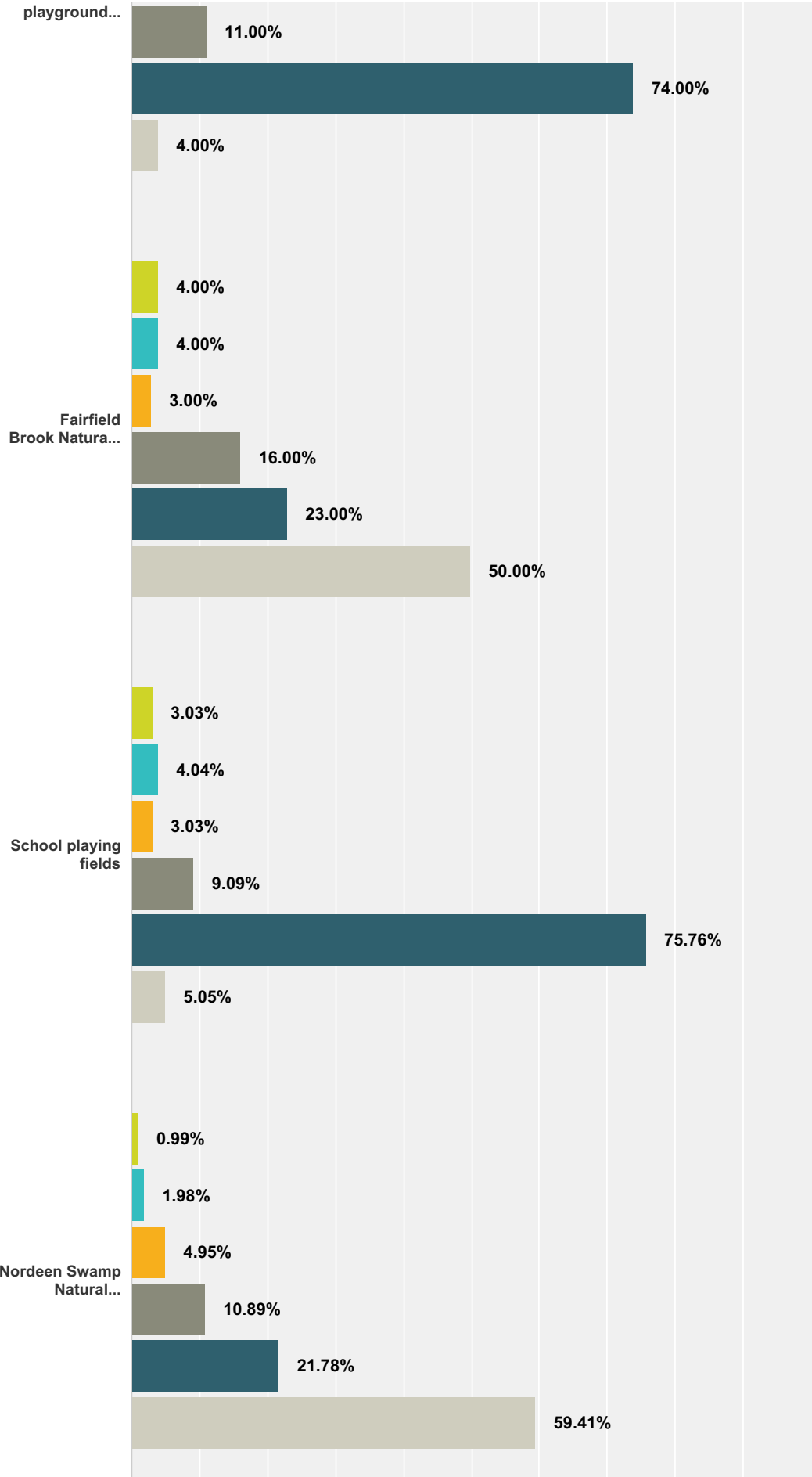
Richmond Open Space and Recreation Survey



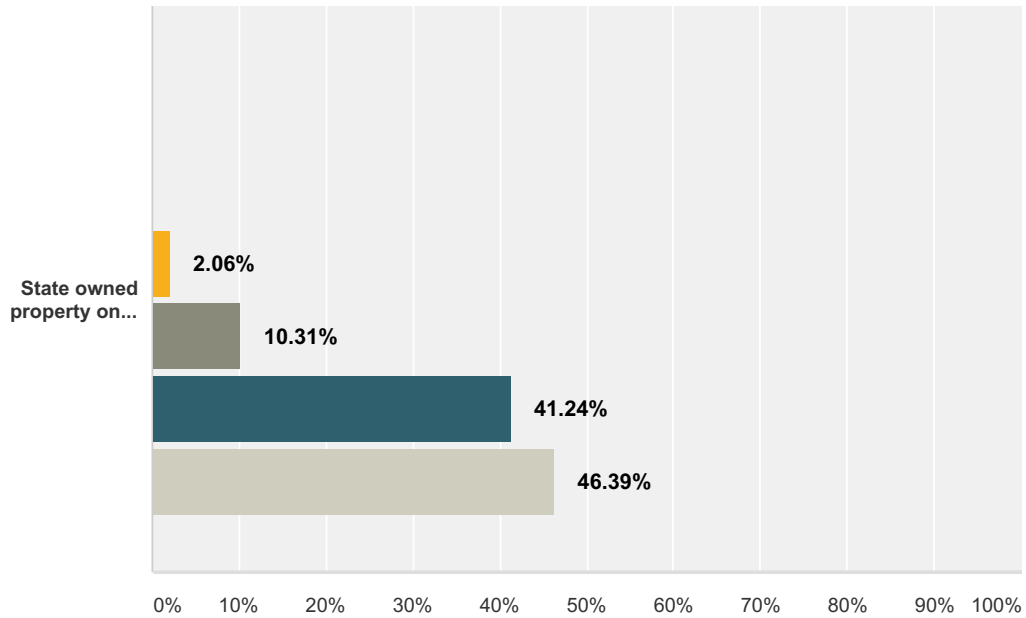
Richmond Open Space and Recreation Survey



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■ Very Frequently (16+ times)
 ■ Frequently (11-15 times)
 ■ Occasionally (6-10 times)
 ■ Sometimes (1-5 times)
 ■ Never
 ■ Haven't heard of it

	Very Frequently (16+ times)	Frequently (11-15 times)	Occasionally (6-10 times)	Sometimes (1-5 times)	Never	Haven't heard of it	Total
East Road (Popular walking and running area)	28.00% 28	9.00% 9	9.00% 9	21.00% 21	29.00% 29	4.00% 4	100
Richmond Shores Road / Boy's Club Road (Popular dog-walking/running/walking area)	15.84% 16	8.91% 9	11.88% 12	18.81% 19	41.58% 42	2.97% 3	101
Town Beach / State boat launch	10.89% 11	12.87% 13	21.78% 22	41.58% 42	12.87% 13	0.00% 0	101
South and North Yokun Ridge hiking trails (accessed from Lenox Road)	9.90% 10	1.98% 2	11.88% 12	41.58% 42	23.76% 24	10.89% 11	101
Steven's Glen and Olivia's Overlook (Accessed from Lenox Branch Road)	8.00% 8	9.00% 9	19.00% 19	51.00% 51	11.00% 11	2.00% 2	100
Hollow Fields Reserve (Accessed from Perry's Peak Road)	8.25% 8	5.15% 5	14.43% 14	26.80% 26	22.68% 22	22.68% 22	97
School gymnasium	7.14% 7	6.12% 6	3.06% 3	8.16% 8	70.41% 69	5.10% 5	98
West Road (Popular walking and running area)	6.19% 6	5.15% 5	7.22% 7	18.56% 18	53.61% 52	9.28% 9	97
School playground equipment	5.00% 5	3.00% 3	3.00% 3	11.00% 11	74.00% 74	4.00% 4	100
Fairfield Brook Natural Heritage Area also known as Fairfield Brook Wildlife Management Area or former Malnati Farm (Located between Swamp and East Roads)	4.00% 4	4.00% 4	3.00% 3	16.00% 16	23.00% 23	50.00% 50	100
School playing fields	3.03% 3	4.04% 4	3.03% 3	9.09% 9	75.76% 75	5.05% 5	99

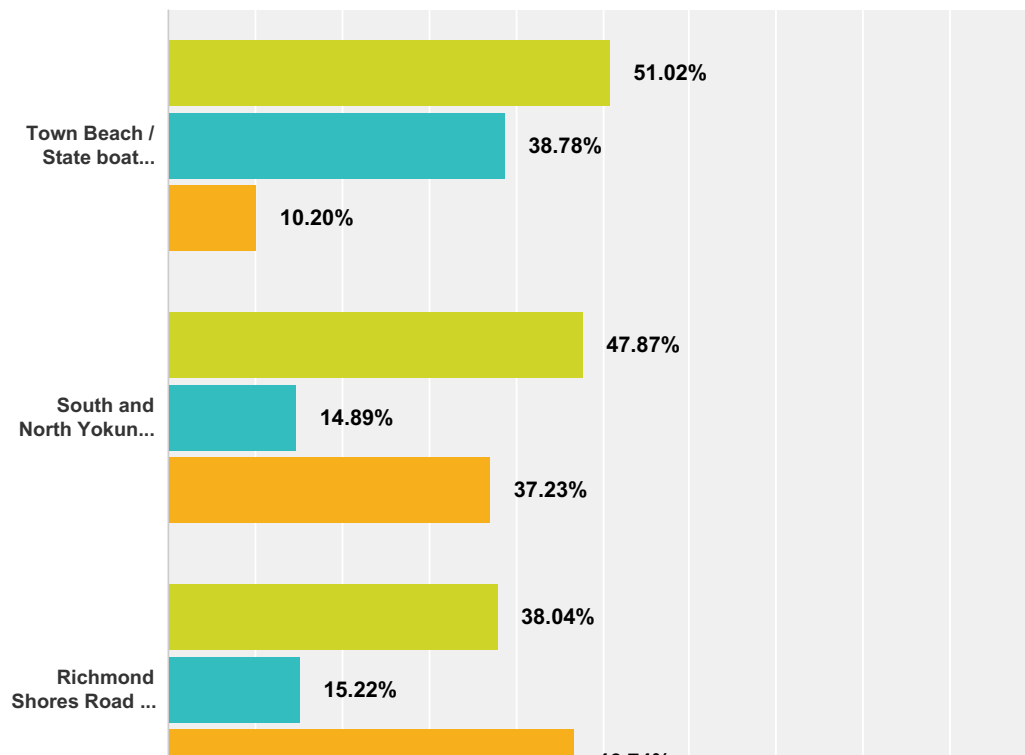
Richmond Open Space and Recreation Survey

Nordeen Swamp Natural Heritage Area also known as Richmond Fen Wildlife Management Area or Nordeen Swamp (Located off Richmond Shores Road)	0.99% 1	1.98% 2	4.95% 5	10.89% 11	21.78% 22	59.41% 60	101
State owned property on Dean Hill Road	0.00% 0	0.00% 0	2.06% 2	10.31% 10	41.24% 40	46.39% 45	97

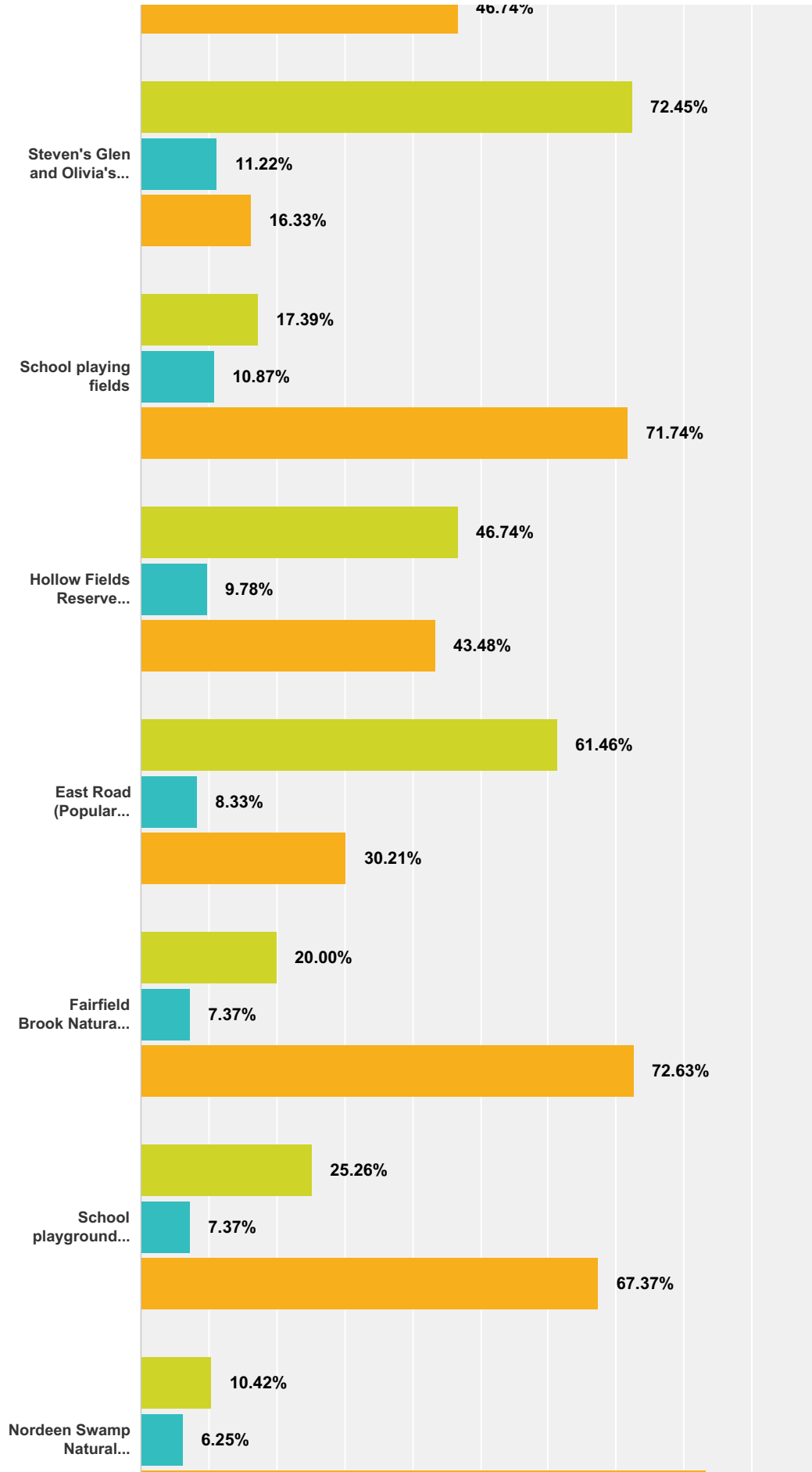
#	Other (please specify)	Date
1	Richmond Pond Canoeing	5/31/2015 1:38 PM
2	dublin road, furnance road for walking	5/26/2015 1:29 PM
3	As second-home owners, we spend only occasional periods in residence.	5/19/2015 4:47 PM
4	the 'havent' heard of its' were that I didn't know they were public areas	5/19/2015 6:25 AM
5	heron rookery	5/16/2015 12:14 PM
6	Don't have much time for recreation	5/13/2015 8:25 PM
7	I regularly hunt upland birds with my dog on the privately-owned piece of former ag land located on Sleepy Hollow Road near the Beagle Club.	5/8/2015 2:12 PM
8	Boynton field by permission	5/5/2015 8:05 AM
9	Camp Russell wooded open space	4/29/2015 9:05 AM
10	fire tower road starts at top of Osceola Road	4/26/2015 3:39 PM
11	Richmond pond more than 16 times in season	4/25/2015 9:06 AM
12	RE: Hollow Fields, I live on Perry's Peak Rd.	4/24/2015 1:45 PM

Q9 How would you rate the following recreation areas in Richmond? (Please answer all items)

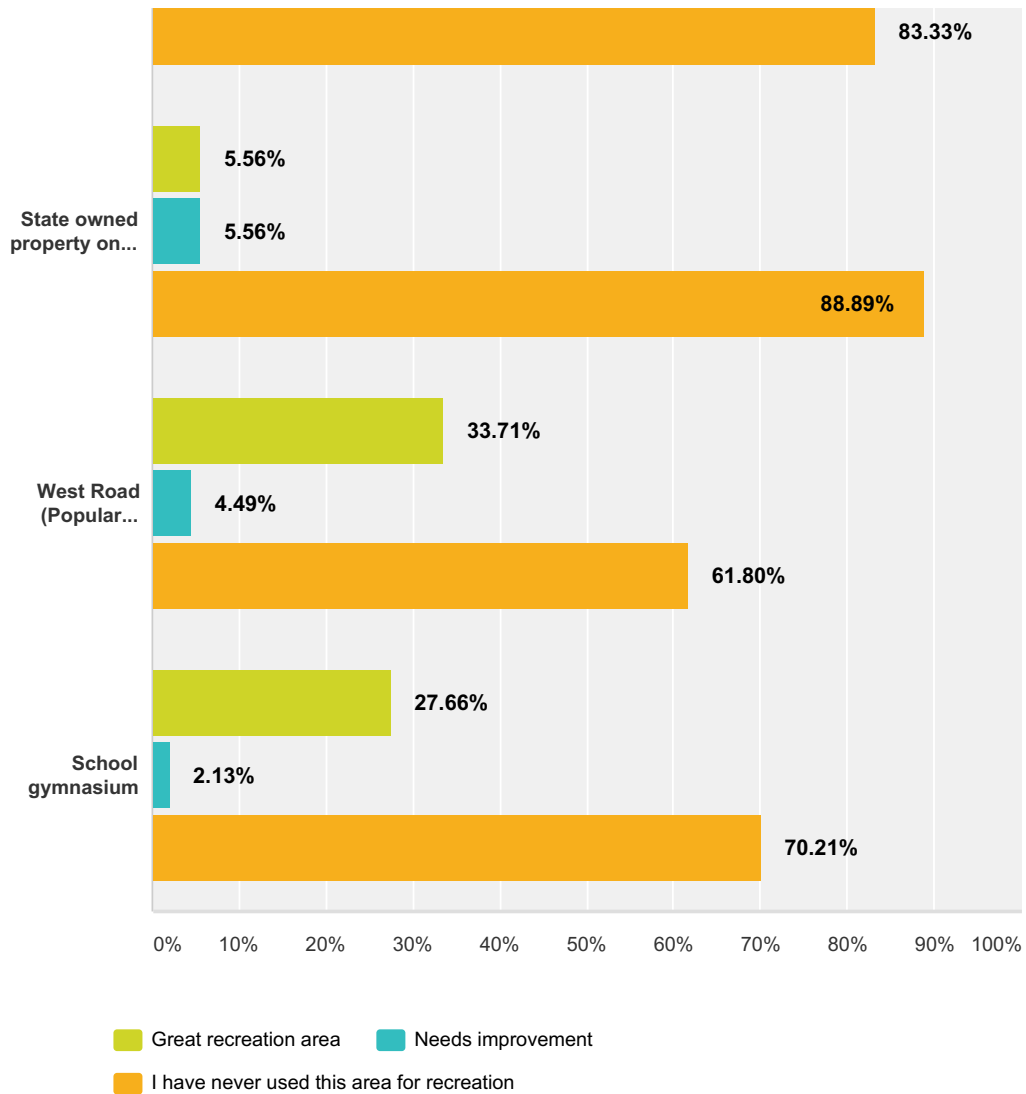
Answered: 101 Skipped: 12



Richmond Open Space and Recreation Survey



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	Great recreation area	Needs improvement	I have never used this area for recreation	Total
Town Beach / State boat launch	51.02% 50	38.78% 38	10.20% 10	98
South and North Yokun Ridge hiking trails (accessed from Lenox Road)	47.87% 45	14.89% 14	37.23% 35	94
Richmond Shores Road / Boy's Club Road (Popular dog-walking/running/walking area)	38.04% 35	15.22% 14	46.74% 43	92
Steven's Glen and Olivia's Overlook (Accessed from Lenox Branch Road)	72.45% 71	11.22% 11	16.33% 16	98
School playing fields	17.39% 16	10.87% 10	71.74% 66	92
Hollow Fields Reserve (Accessed from Perry's Peak Road)	46.74% 43	9.78% 9	43.48% 40	92
East Road (Popular walking and running area)	61.46% 59	8.33% 8	30.21% 29	96
Fairfield Brook Natural Heritage Area also known as Fairfield Brook Wildlife Management Area or former Malnati Farm (Located between Swamp and East Roads)	20.00% 19	7.37% 7	72.63% 69	95

Richmond Open Space and Recreation Survey

School playground equipment	25.26% 24	7.37% 7	67.37% 64	95
Nordeen Swamp Natural Heritage Area also known as Richmond Fen Wildlife Management Area or Nordeen Swamp (Located off Richmond Shores Road)	10.42% 10	6.25% 6	83.33% 80	96
State owned property on Dean Hill Road	5.56% 5	5.56% 5	88.89% 80	90
West Road (Popular walking and running area)	33.71% 30	4.49% 4	61.80% 55	89
School gymnasium	27.66% 26	2.13% 2	70.21% 66	94

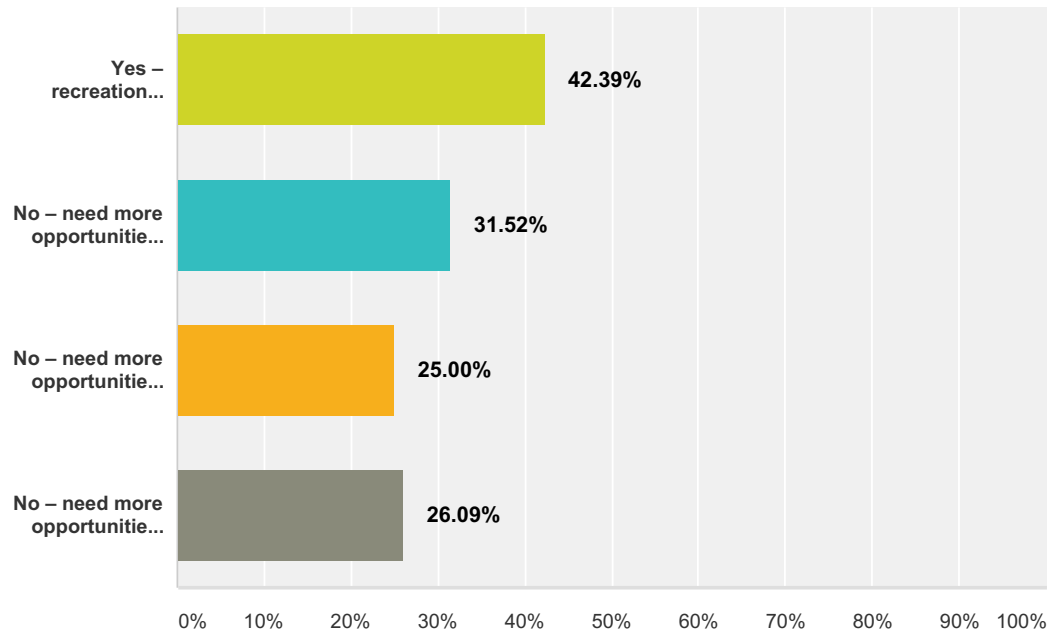
#	Please explain any improvements you would like to see in the areas listed above.	Date
1	open space around school could be cleared and maintained better, better drainage on field	6/9/2015 4:18 PM
2	playground equipment needs updating. Tennis upgrades: fence and gate and cracks in court.	6/5/2015 11:32 AM
3	improved boat launch ramp area and something to tie off boats	5/29/2015 4:04 PM
4	Trail markers, point of interest markers, trails cleared, fields lined for games	5/26/2015 5:05 PM
5	trailhead is not always maintained, town beach due to fence not always attractive, hiking trails from lenox road not always easy to park	5/26/2015 1:29 PM
6	I support purchasing a new town beach	5/24/2015 11:12 AM
7	n/a	5/22/2015 10:42 AM
8	Too many big rocks from road resurfacing to walk comfortably. I know it is hard to have it both ways.	5/18/2015 11:11 AM
9	roadways	5/15/2015 10:39 AM
10	Olivia's Overlook trails can be very confusing, as can Burbank trails. Sineage is poor.	5/14/2015 10:18 PM
11	Town Beach: If a little larger and a few more accessories, Town & Family Picnics & Outdoor Socials could be held and allow more use.	5/6/2015 7:19 PM
12	Preservation more important than recreation	4/29/2015 9:05 AM
13	More sand at the beach!	4/26/2015 9:12 PM
14	Hiking trails need to be better marker as I have not heard of some of these. Boat ramp needs better garbage manangement. Some worry about hunting	4/26/2015 3:39 PM
15	Properly maintained	4/25/2015 9:06 AM
16	Kayak/canoe put-in at boat launch area; porta-potty or modern pit toilet at boat launch ramp & at town beach	4/24/2015 7:48 PM
17	Anyone walking their dogs along East or West Roads should be instructed to clean up after them when they defecate. It is an insult to homeowners along the way when this is not done, and it is often. Dog owners should be instructed that cleaning up after their pets , and having them leashed is a law	4/24/2015 6:21 PM
18	The town is soaking the taxpayers dry with a school, road care, surveys and all these extra projects. We already know we need a town hall how much will that cost? We don't need more frivolous projects to satisfy the egos of a few who don't really care about the town but want their names associated with these projects	4/24/2015 2:00 PM
19	I would like to see an agreed upon dog play area where mine can get leash-free recreation with other friendly dogs.	4/24/2015 1:18 PM
20	Put up signs to identify the area and who owns it. Historical facts.	4/24/2015 1:04 PM
21	The town beach is an embarrassment and poorly run	4/24/2015 12:45 PM
22	trails	4/24/2015 12:37 PM
23	Is school gym available to public? could we have a fitness center there for use after school or in the evenings?	4/24/2015 12:33 PM

Richmond Open Space and Recreation Survey

24	Trails always need work though generally their in good shape. Signage at BNRC needs improvement as does parking. Playground equipment needs some repair.	4/24/2015 12:32 PM
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Q10 Do you think there are adequate recreation opportunities for all ages and abilities in Richmond? (Check all that apply)

Answered: 92 Skipped: 21



Answer Choices	Responses
Yes – recreation opportunities are adequate for all ages and abilities	42.39% 39
No – need more opportunities for children and younger residents	31.52% 29
No – need more opportunities for adults	25.00% 23
No – need more opportunities for older adults and people with disabilities	26.09% 24
Total Respondents: 92	

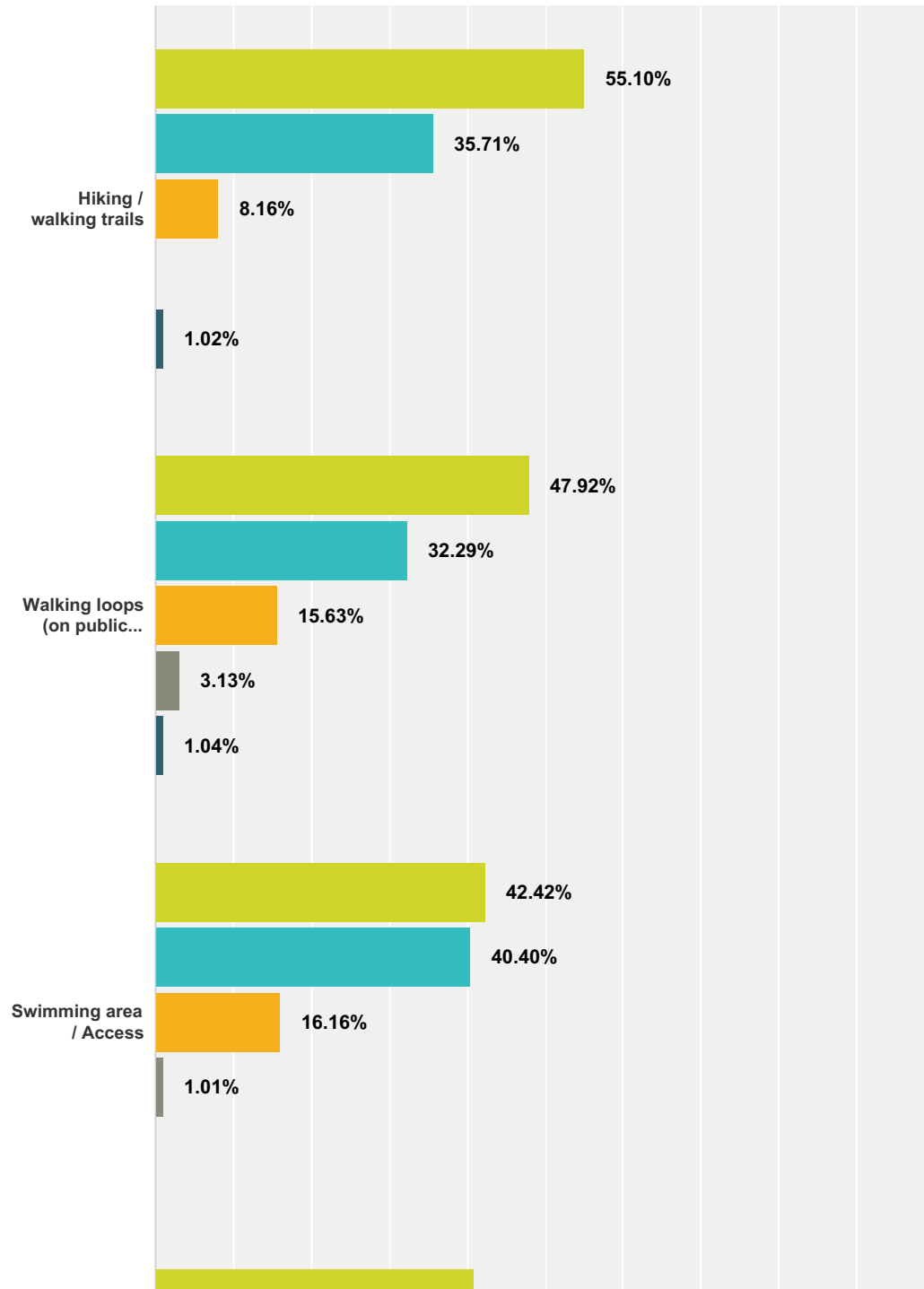
#	Other (please specify)	Date
1	Running trails with accessibility for jogging strollers, a sidewalk between school and post office would be great.	6/4/2015 10:22 PM
2	Congregation Space for teenagers	5/29/2015 12:05 PM
3	We have many available recreational opportunities and beautiful spaces, but you can never have too many! I would LOVE to see the Camp Marion White property acquired and utilized for camping, group gatherings, sports and hiking/ snowshoeing	5/26/2015 5:05 PM
4	now I do after the list above	5/22/2015 6:20 PM
5	need more dog friendly areas	5/19/2015 6:25 AM
6	trails with better accessibilty	4/26/2015 3:39 PM
7	Safe trails for dog walking, cross country skiing & hiking	4/24/2015 2:33 PM

Richmond Open Space and Recreation Survey

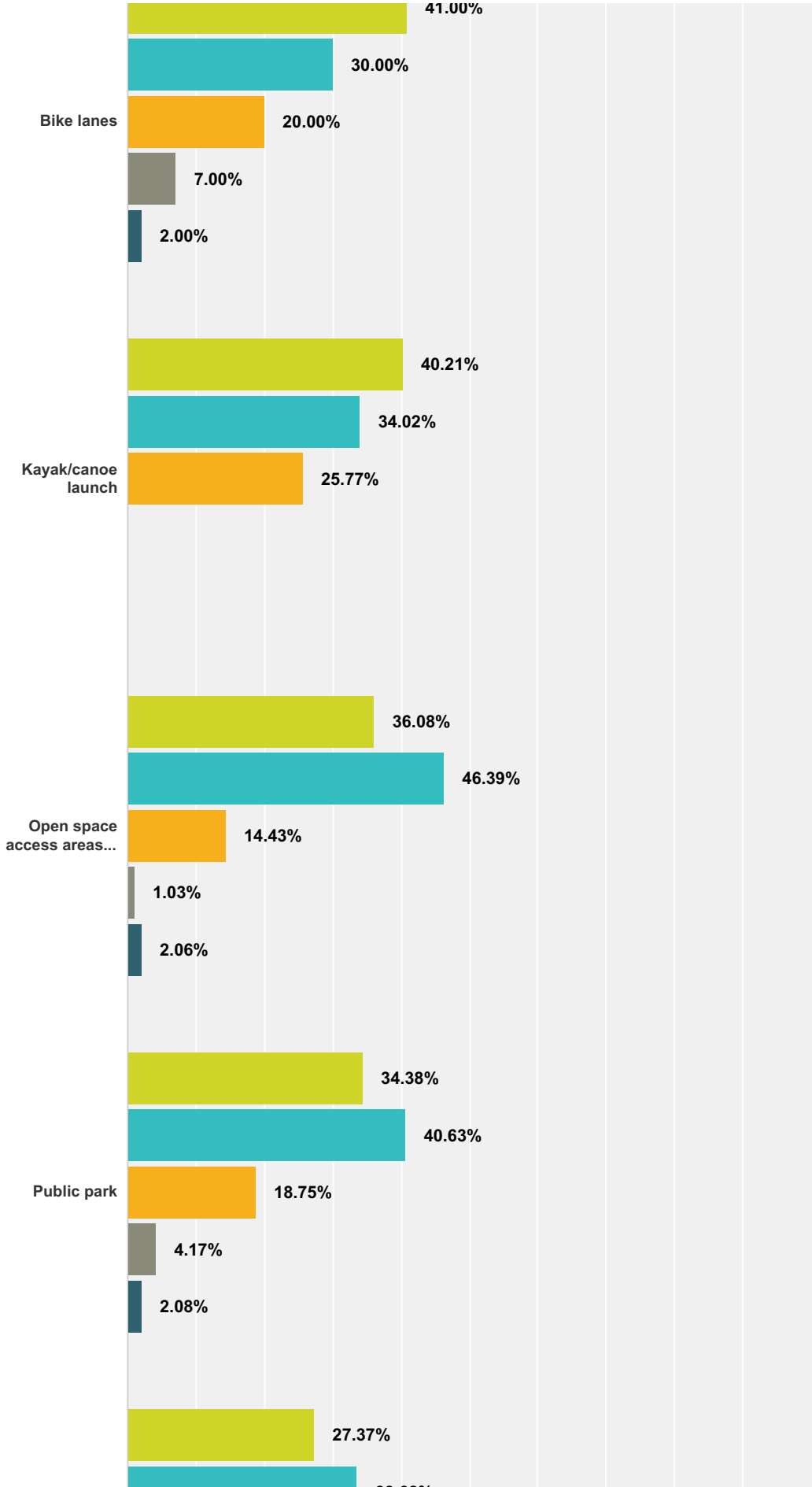
8	Maps of what's available would be helpful.	4/24/2015 1:40 PM
9	Note: I take my walks in the Pittsfield State Forrest.	4/24/2015 1:18 PM
10	Don't Know	4/24/2015 1:05 PM
11	Bike lanes	4/24/2015 12:34 PM

Q11 Please indicate your level of support for the following recreation improvements in Richmond. (Please answer all items)

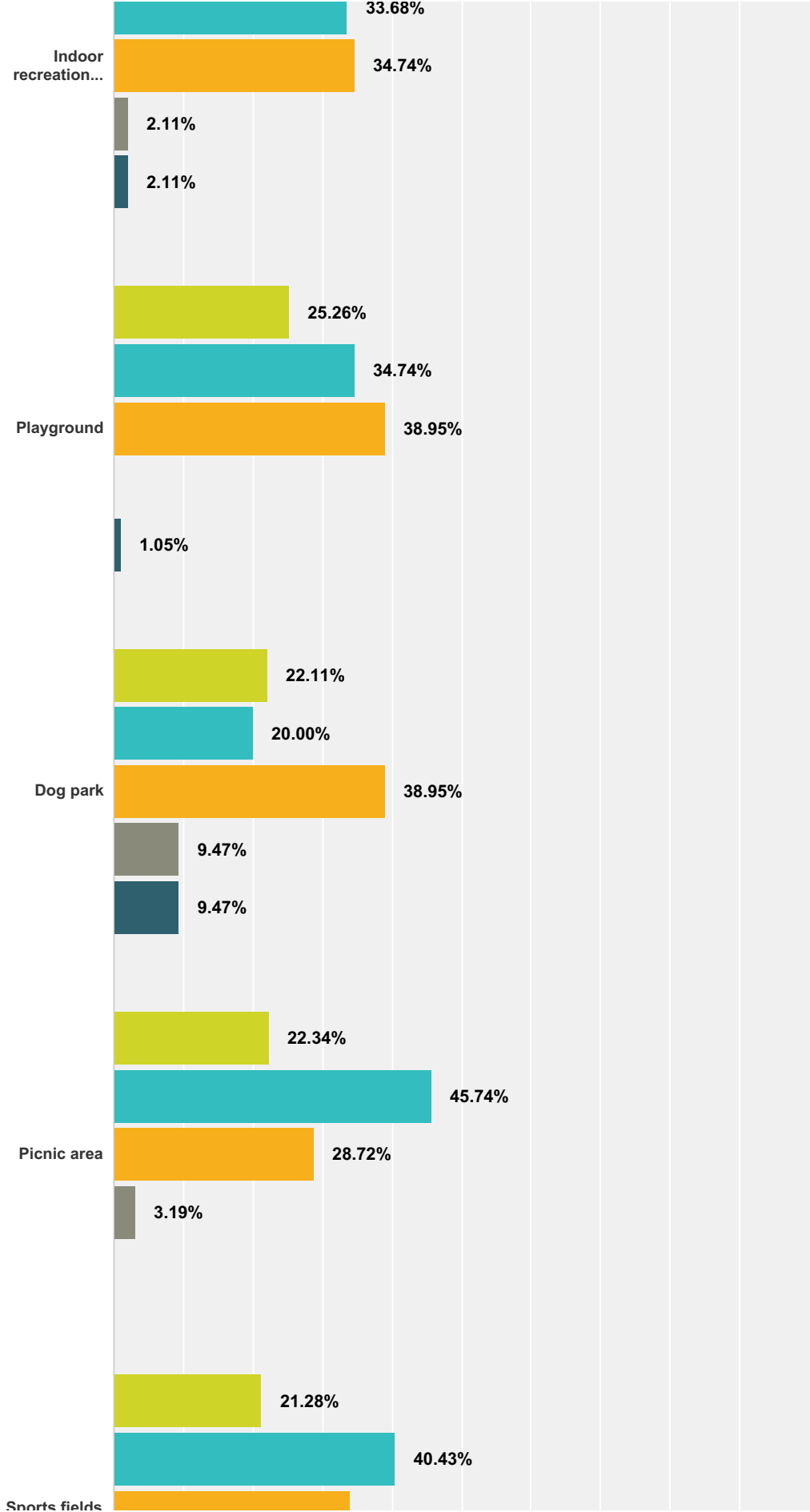
Answered: 102 Skipped: 11



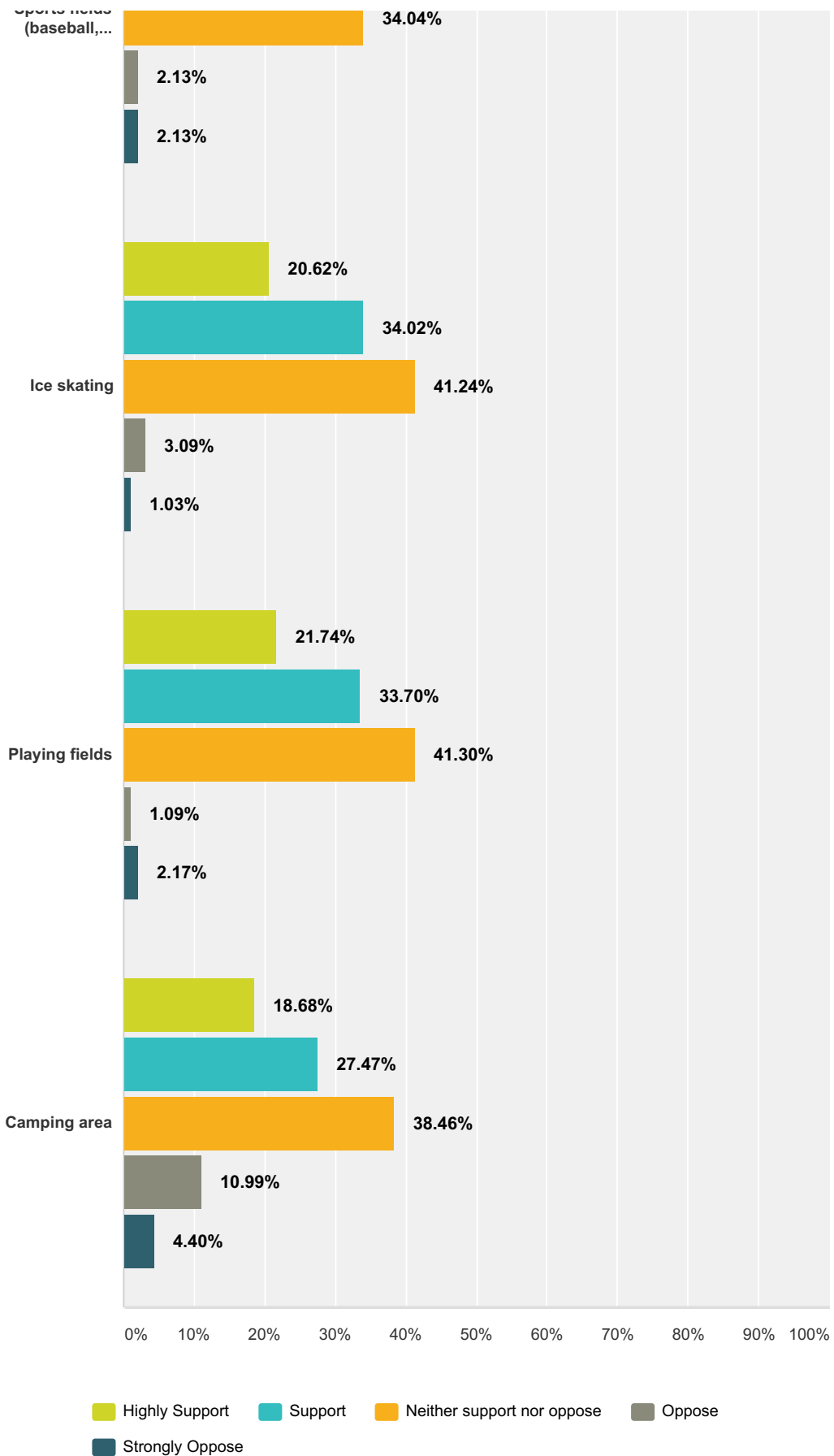
Richmond Open Space and Recreation Survey



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Richmond Open Space and Recreation Survey

	Highly Support	Support	Neither support nor oppose	Oppose	Strongly Oppose	Total
Hiking / walking trails	55.10% 54	35.71% 35	8.16% 8	0.00% 0	1.02% 1	98
Walking loops (on public roadways)	47.92% 46	32.29% 31	15.63% 15	3.13% 3	1.04% 1	96
Swimming area / Access	42.42% 42	40.40% 40	16.16% 16	1.01% 1	0.00% 0	99
Bike lanes	41.00% 41	30.00% 30	20.00% 20	7.00% 7	2.00% 2	100
Kayak/canoe launch	40.21% 39	34.02% 33	25.77% 25	0.00% 0	0.00% 0	97
Open space access areas (parking lots and trailheads)	36.08% 35	46.39% 45	14.43% 14	1.03% 1	2.06% 2	97
Public park	34.38% 33	40.63% 39	18.75% 18	4.17% 4	2.08% 2	96
Indoor recreation (fitness, weight lifting, yoga etc.)	27.37% 26	33.68% 32	34.74% 33	2.11% 2	2.11% 2	95
Playground	25.26% 24	34.74% 33	38.95% 37	0.00% 0	1.05% 1	95
Dog park	22.11% 21	20.00% 19	38.95% 37	9.47% 9	9.47% 9	95
Picnic area	22.34% 21	45.74% 43	28.72% 27	3.19% 3	0.00% 0	94
Sports fields (baseball, football, tennis)	21.28% 20	40.43% 38	34.04% 32	2.13% 2	2.13% 2	94
Ice skating	20.62% 20	34.02% 33	41.24% 40	3.09% 3	1.03% 1	97
Playing fields	21.74% 20	33.70% 31	41.30% 38	1.09% 1	2.17% 2	92
Camping area	18.68% 17	27.47% 25	38.46% 35	10.99% 10	4.40% 4	91

#	Other (please specify)	Date
1	dog park!!!!	5/19/2015 6:25 AM
2	Kayak race on Richmond Pond - let's do it!	5/15/2015 10:39 AM
3	I would love to see more active timber management on various large forested lots to create more early-successional habitat for many different species of wildlife that need such habitat. We have an over-abundance of mature hardwood forest that only supports a narrow range of species because it offers little or no understory vegetation	5/8/2015 2:12 PM
4	Much depends on meaning of "improvements"	4/29/2015 9:05 AM
5	trails accessible to the handicapped	4/26/2015 3:39 PM
6	Community Vegetable/ Flower Gardens	4/24/2015 6:21 PM
7	Horse trailer parking near accessible trails.	4/24/2015 1:40 PM

Q12 What type of recreation ACTIVITY do

Richmond Open Space and Recreation Survey

you want to see more of in Richmond? (List only one)

Answered: 59 Skipped: 54

#	Responses	Date
1	hiking to scenic trails	6/9/2015 4:18 PM
2	Cycling / Improvements biking	6/7/2015 8:52 PM
3	Walking / Improvements Walking with dog off leash	6/5/2015 12:26 PM
4	Indoor Rec. Activities community events such as ping pong tournament	6/5/2015 11:32 AM
5	Swimming Wish there was better swimming	6/5/2015 11:30 AM
6	Walking / Improvements Marked trails for running/ walking	6/4/2015 10:22 PM
7	Town Park a town park for all citizens at camp marion white	5/29/2015 8:58 PM
8	Golf GOLF	5/29/2015 4:04 PM
9	Indoor Rec. Activities workout in gym	5/29/2015 11:05 AM
10	Hiking / Improvements Bird Watching club/activitiesHiking where dogs are welcoms	5/27/2015 9:44 AM
11	Athletics/Team Sports Team sports	5/26/2015 5:05 PM
12	Cycling / Improvements biking lanes	5/26/2015 1:29 PM
13	Hiking / Improvements mapped hiking trails	5/24/2015 1:41 PM
14	Walking / Improvements organized walking and nature study	5/22/2015 11:06 AM
15	Hiking / Improvements hiking trails	5/22/2015 10:42 AM
16	Hiking / Improvements Well marked hiking trails.	5/19/2015 4:47 PM
17	dog park	5/19/2015 6:25 AM
18	Aerobics/Yoga Classes etc I love Christine Faber's tai chi weight class on Thursday and would welcome another during the week .	5/18/2015 11:11 AM
19	Town Park a park for many of the above activities	5/17/2015 12:47 PM
20	Hiking / Improvements hiking	5/16/2015 12:14 PM
21	Anything for Kids/Family Kid friendly activities	5/15/2015 10:39 AM
22	Rec. for Seniors Anything for seniors	5/15/2015 9:43 AM
23	Ice Skating Richmond Pond area cleared for ice skating	5/14/2015 10:18 PM
24	Picnic Areas more picnic areas	5/14/2015 3:32 PM
25	Bird Watching Guided bird walks	5/13/2015 10:18 PM
26	Hiking / Improvements trails	5/13/2015 12:50 PM
27	X-Country Skiing cross country ski	5/13/2015 12:17 PM
28	Hiking / Improvements hiking	5/10/2015 3:50 PM
29	Hiking / Improvements Hiking trails	5/10/2015 8:41 AM
30	Anything for Kids/Family Any number of outdoor recreational activities that appeal to young children and families. We need to everything we can to make this community more attractive to millenials and younger Gen Xers... as opposed to just Babyboomers and surviving members of the Greatest Generation.	5/8/2015 2:12 PM
31	Cycling / Improvements bike lanes or trails	5/8/2015 10:58 AM

Richmond Open Space and Recreation Survey

32	Tennis Tennis---life long sport...coed..all ages (and for disabled too!)	5/6/2015 8:47 PM
33	Hiking / Improvements Walking / Improvements Walking/hiking	5/6/2015 7:19 PM
34	Cycling / Improvements Safe biking for all ages	5/5/2015 8:05 AM
35	Boating Swimming Swimming and boating	5/2/2015 12:02 AM
36	Hiking / Improvements Walking / Improvements hiking,walking trails	4/30/2015 9:02 AM
37	Athletics/Team Sports Sports field	4/29/2015 7:31 PM
38	Walking / Improvements walking trails	4/29/2015 9:05 AM
39	Walking / Improvements Woods' walks	4/27/2015 1:02 PM
40	Walking / Improvements marked walking loops	4/27/2015 11:03 AM
41	Cycling / Improvements on-road cycling	4/26/2015 9:12 PM
42	Cycling / Improvements Hiking / Improvements safe biking and hiking	4/26/2015 3:39 PM
43	Walking / Improvements places to walk (not in the woods)	4/26/2015 8:58 AM
44	Sailing Sailing	4/25/2015 9:06 AM
45	Hiking / Improvements Walking / Improvements hiking/walking trails	4/24/2015 7:48 PM
46	Golf Course Golf course	4/24/2015 7:26 PM
47	Rec. for Seniors Development of park area for Senior Citizens with benches.	4/24/2015 6:21 PM
48	Indoor Rec. Activities ADULT INDOOR ACTIVITIES	4/24/2015 5:50 PM
49	Running Running	4/24/2015 5:15 PM
50	Cycling / Improvements Bike trails	4/24/2015 4:52 PM
51	Indoor Rec. Activities Indoor activities	4/24/2015 2:16 PM
52	Walking / Improvements Safer walking/hiking areas	4/24/2015 2:03 PM
53	Hiking / Improvements hiking trails	4/24/2015 1:19 PM
54	Swimming swimming	4/24/2015 1:18 PM
55	Walking / Improvements Safe walking, bike riding	4/24/2015 1:05 PM
56	X-Country Skiing Cross country skiing	4/24/2015 12:43 PM
57	Hiking / Improvements organized walks and hikes	4/24/2015 12:36 PM
58	Indoor Rec. Activities Fitness center facility	4/24/2015 12:33 PM
59	Hiking / Improvements Hiking	4/24/2015 12:32 PM

Q13 What type of recreation IMPROVEMENTS would you like to see more of in Richmond? (List as many as you like)

Answered: 54 Skipped: 59

#	Responses	Date
1	Boat / Speed monitoring Cycling Improvements Walking / Safer Walking please build ****bike lanes**** walking trails. please limit motorboat activity on richmond pond	6/7/2015 8:52 PM
2	Athletic Fields / Courts fix tennis court!	6/5/2015 11:32 AM

Richmond Open Space and Recreation Survey

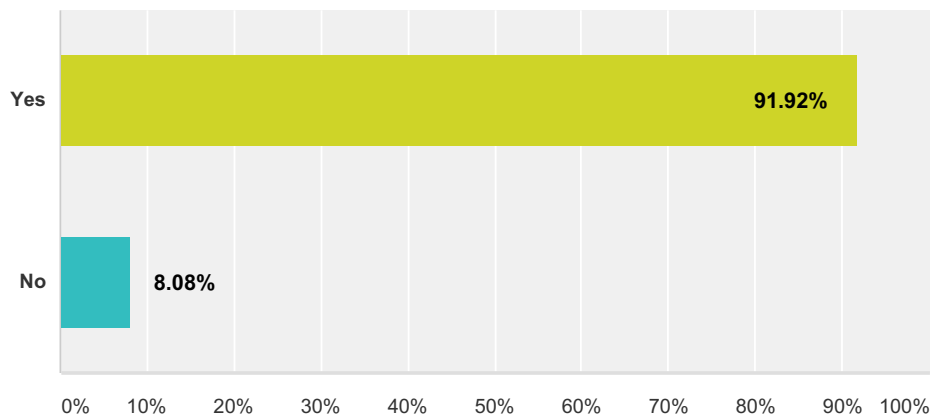
3	All checked above	6/5/2015 11:30 AM
4	Park Walking / Safer Walking Running trails, park/ playground areas where people can convene, playground that's not on school grounds	6/4/2015 10:22 PM
5	Athletic Fields / Courts Bocce Ball	6/2/2015 10:50 AM
6	Golf BUILD A GOLF COURSE ON SOME OF THE TOWN OR CONSERVED LAND TO BRING IN TAX REVENUE	5/29/2015 4:04 PM
7	Trailheads / Access Better parking	5/27/2015 9:44 AM
8	Improve Town Beach Fields lined, trail heads marked, picnic area established, town beach improvements	5/26/2015 5:05 PM
9	Promote Ex. Recreation clear trail maps	5/26/2015 1:29 PM
10	Maintain current areas good maintenance of current facilities	5/22/2015 11:06 AM
11	None n/a	5/22/2015 10:42 AM
12	Camp Marion White enjoy what we have but need more play recreation possibilities for children i.e buy camp property	5/20/2015 5:48 PM
13	Improve Town Beach Improvements to the town beach on Richmond Pond. Trail markings on Yokun Ridge and Olivia's Outlook.	5/19/2015 4:47 PM
14	Dog Park creation of a dog park	5/19/2015 6:25 AM
15	Walking / Safer Walking A walking trail that is paved.	5/18/2015 11:11 AM
16	Park park for group activities	5/17/2015 12:47 PM
17	More Open Space as much open land as possible	5/16/2015 12:14 PM
18	Beautify / Improve Roads roadways, community offerings	5/15/2015 10:39 AM
19	Indoor Rec. Activities Programmed use of school gym	5/15/2015 9:43 AM
20	Education / Interpretive Painting classes and lectures in town hall auditorium Not known if tennis group still exists? Unicycle lessons/team for adults and kids	5/14/2015 10:18 PM
21	None I feel the amount of public access areas is quite acceptable at this time	5/14/2015 3:32 PM
22	Education / Interpretive Educational nature walks	5/13/2015 10:18 PM
23	Hiking / Trails trails	5/13/2015 12:50 PM
24	Improve Town Beach town beach improvement of all kinds	5/13/2015 12:17 PM
25	Promote Ex. Recreation better info about existing areas/trail maps	5/10/2015 3:50 PM
26	Park Parks & gardens	5/10/2015 8:41 AM
27	See response to #12.	5/8/2015 2:12 PM
28	Cycling Improvements Safer roads for biking.	5/8/2015 10:58 AM
29	Park A park for all ages. Some nice equipment for seniors, a playground for younger...skatepark possibly for teens and some pagodas for sunny days with gardens	5/6/2015 8:47 PM
30	Hiking / Trails Off Road Walking/hiking loops	5/6/2015 7:19 PM
31	Beautify / Improve Roads Roads need improvement	5/5/2015 8:05 AM
32	More Open Space More preserved land	5/2/2015 12:02 AM
33	Boat / Speed monitoring monitoring speed boating on the pond	4/30/2015 9:02 AM
34	"Green" Improvements "improvements" as long as they are preservation oriented and "green" in nature	4/29/2015 9:05 AM
35	Walking / Safer Walking marked walking loops	4/27/2015 11:03 AM

Richmond Open Space and Recreation Survey

36	Camp Marion White Cycling Improvements Maintain current areas Maintain current open spaces, especially open fields and former agricultural areas, especially those with best vistas. Increase safety of on-road cycling through more 'share the road' signage, and wider shoulders (but not wider roads, which encourages speeding). Look at ways to keep the Girls Scouts Camp on Richmond Pond preserved as open space, if threatened with development.	4/26/2015 9:12 PM
37	Trailheads / Access better easier trailheads	4/26/2015 3:39 PM
38	Promote Ex. Recreation booklet with maps and descriptions regarding recreation areas available to residents	4/26/2015 8:58 AM
39	Hiking / Trails Picnic area Swimming Water Access Hiking trails, swimming boating areas, picnic areas	4/25/2015 9:06 AM
40	Camp Marion White Park Town park preferably at Richmond Pond (Camp Marion White property)	4/24/2015 7:48 PM
41	None None	4/24/2015 7:26 PM
42	Beautify / Improve Roads More places developed into flower gardens, such as at entrances to town, the entrances to town roads, such as the big triangle at the Rt.295 end of West Road, etc.	4/24/2015 6:21 PM
43	Indoor Rec. Activities ADULT INDOOR ACTIVITIES	4/24/2015 5:50 PM
44	Athletic Fields / Courts Baseball field	4/24/2015 5:15 PM
45	Athletic Fields / Courts more tennis courts	4/24/2015 4:52 PM
46	Indoor Rec. Activities Indoor various exercise classes	4/24/2015 2:16 PM
47	Improve Town Beach Richmond Town Beach is a mess	4/24/2015 2:03 PM
48	Promote Ex. Recreation Better information on areas available for hiking.	4/24/2015 1:40 PM
49	Dog Park Walking / Safer Walking Dog park Side walks for safe walking	4/24/2015 1:18 PM
50	Water Access Better water access	4/24/2015 1:05 PM
51	Less Development Less development.	4/24/2015 1:04 PM
52	Improve Town Beach Fix the town beach, the road to the town beach	4/24/2015 12:45 PM
53	Trailheads / Access trailhead parking access to walking/hiking areas	4/24/2015 12:33 PM
54	Birdwatching Trailheads / Access Birdwatching (habitat-creation or -improvement), better parking/access for trails.	4/24/2015 12:32 PM

Q14 Would you support the purchase / preservation of Camp Marion White by the Town of Richmond, local land trusts, or a combination of both?

Answered: 99 Skipped: 14

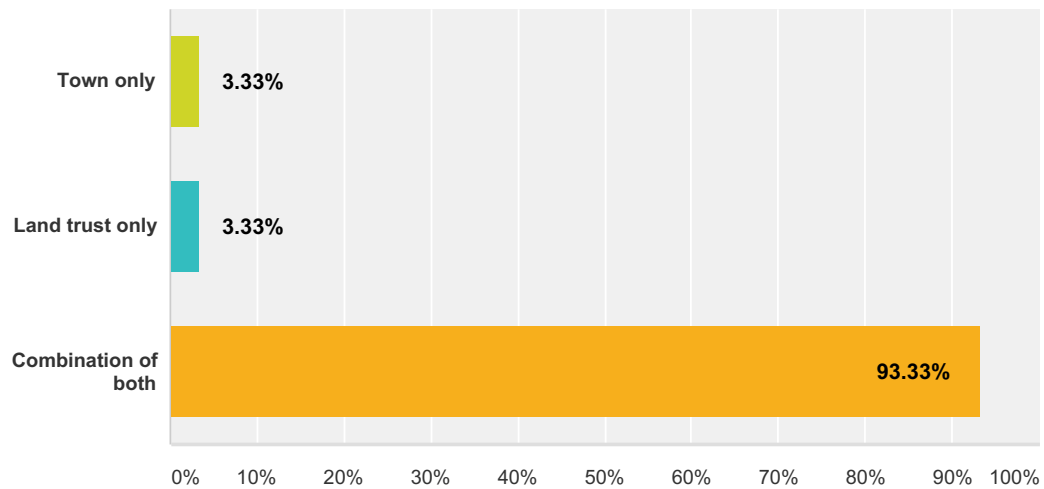


Richmond Open Space and Recreation Survey

Answer Choices	Responses
Yes	91.92% 91
No	8.08% 8
Total	99

Q15 If you answered "Yes" to the question above, how should the purchase move forward?

Answered: 90 Skipped: 23

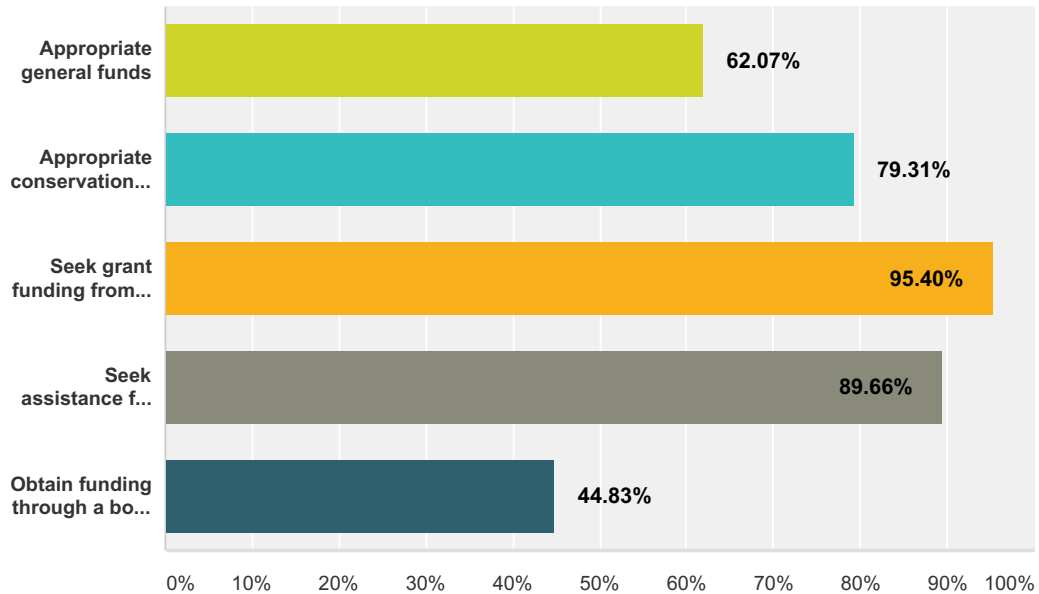


Answer Choices	Responses
Town only	3.33% 3
Land trust only	3.33% 3
Combination of both	93.33% 84
Total	90

Q16 To support the purchase / preservation of Camp Marion White, should the town do the following? (Check all that apply)

Answered: 87 Skipped: 26

Richmond Open Space and Recreation Survey

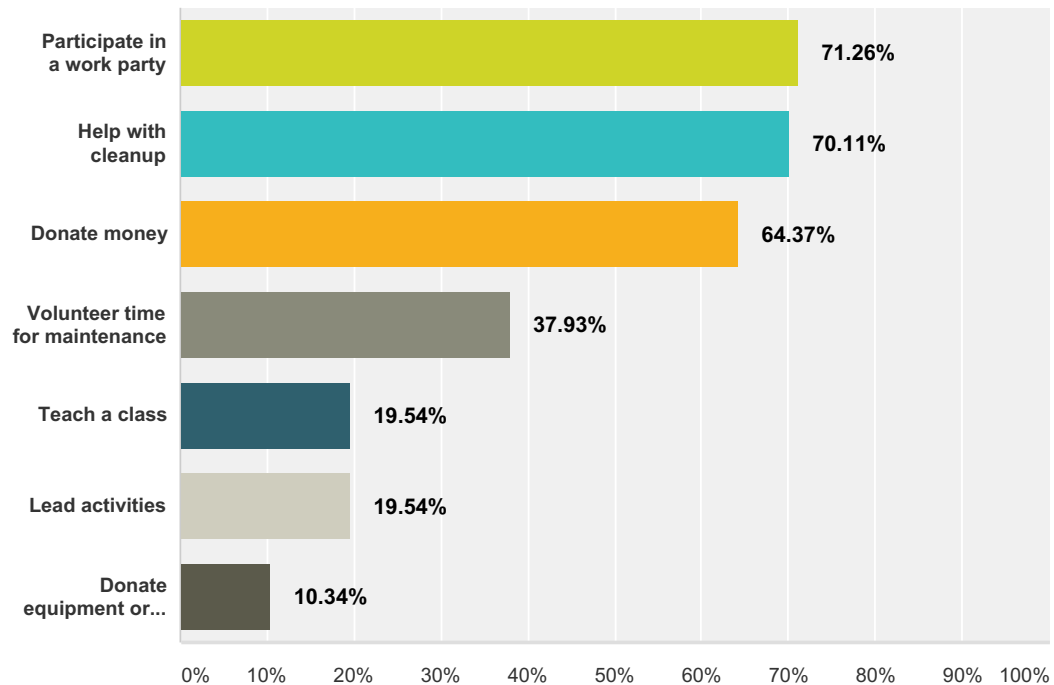


Answer Choices	Responses
Appropriate general funds	62.07% 54
Appropriate conservation funds	79.31% 69
Seek grant funding from the state	95.40% 83
Seek assistance from local land trusts	89.66% 78
Obtain funding through a bond measure	44.83% 39
Total Respondents: 87	

#	Other (please specify)	Date
1	Fund Raiser	5/29/2015 12:11 PM
2	uninformed	5/22/2015 8:34 PM
3	Have a fund-raiser	5/13/2015 10:23 PM
4	seek donation from girl scouts	5/13/2015 12:52 PM
5	fund raising events	5/8/2015 11:01 AM
6	Do anything so that land DOES not become private land!	5/6/2015 9:33 PM
7	Solicit Donations	5/6/2015 7:19 PM
8	bond? taxes?	4/26/2015 3:42 PM
9	Seek contributions from resident	4/25/2015 9:06 AM
10	Seek out former Camp Marion White campers & staff for contributions	4/24/2015 7:58 PM
11	Seek donations from individuals	4/24/2015 6:30 PM
12	No town money	4/24/2015 2:01 PM
13	All of the above	4/24/2015 1:00 PM
14	Not sure on item 15 & 16 - I'd need more info	4/24/2015 12:50 PM
15	A waste of money	4/24/2015 12:48 PM

Q17 To support the purchase / preservation of Camp Marion White, would you do the following? (Check all that apply)

Answered: 87 Skipped: 26



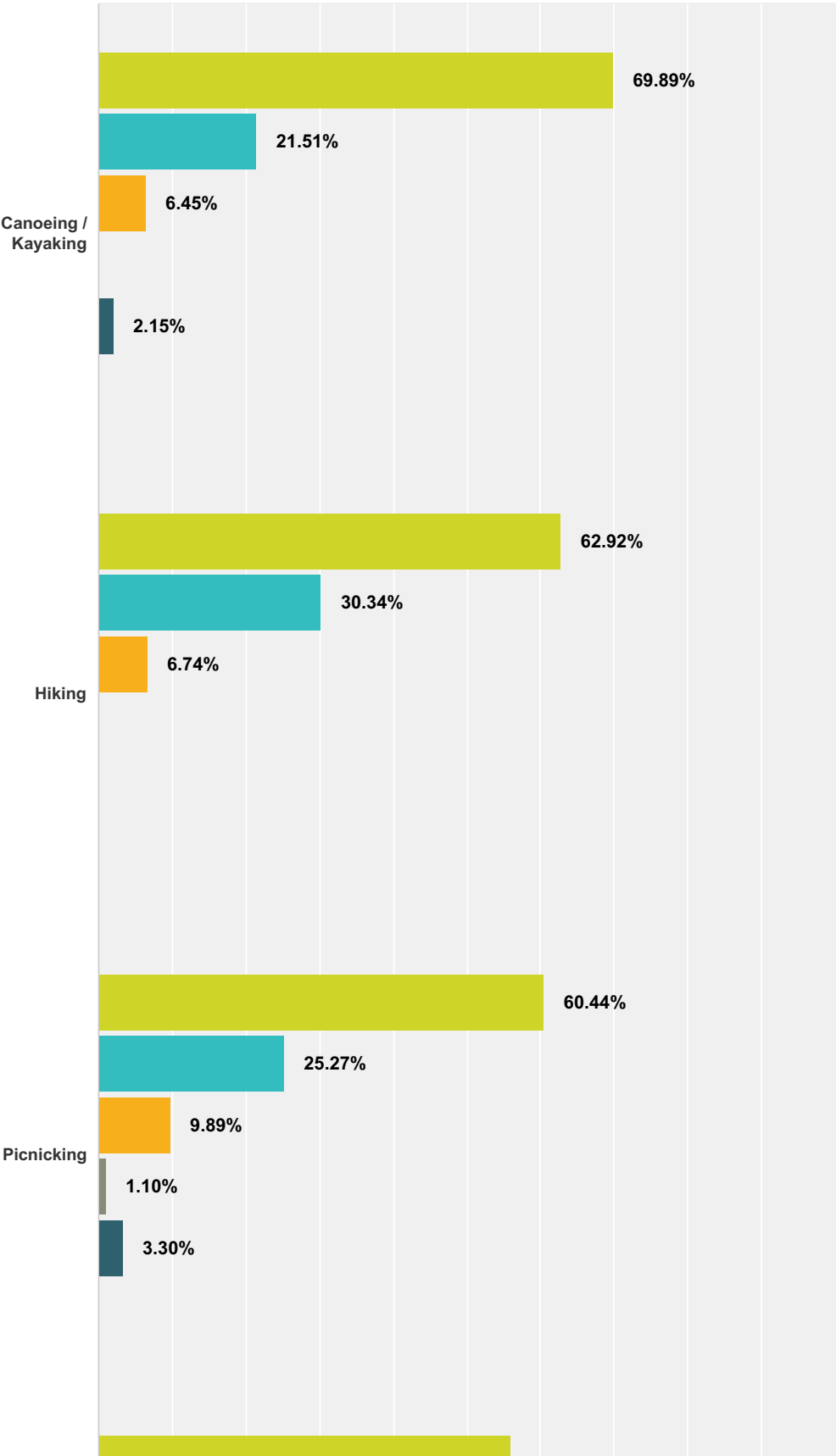
Answer Choices	Responses
Participate in a work party	71.26% 62
Help with cleanup	70.11% 61
Donate money	64.37% 56
Volunteer time for maintenance	37.93% 33
Teach a class	19.54% 17
Lead activities	19.54% 17
Donate equipment or materials	10.34% 9
Total Respondents: 87	

#	Other (please specify)	Date
1	help with dog park creation	5/19/2015 6:29 AM
2	serve on Camp Marion White "working group"	4/24/2015 7:58 PM
3	Make them pay taxes	4/24/2015 2:01 PM
4	A waste of money	4/24/2015 12:48 PM

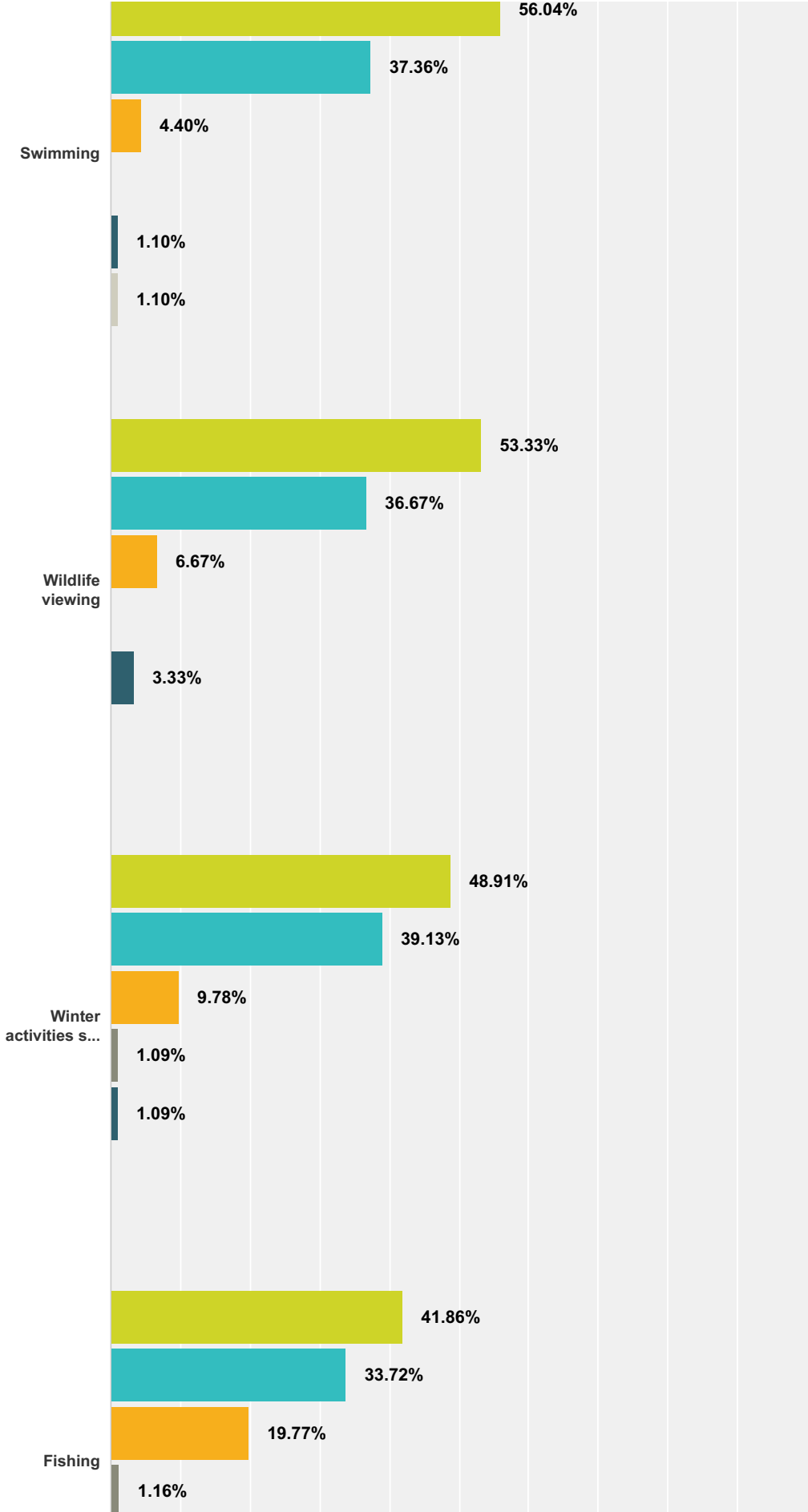
Q18 If Camp Marion White were to be

**purchased / preserved, what USES would
be important for you to see there?**

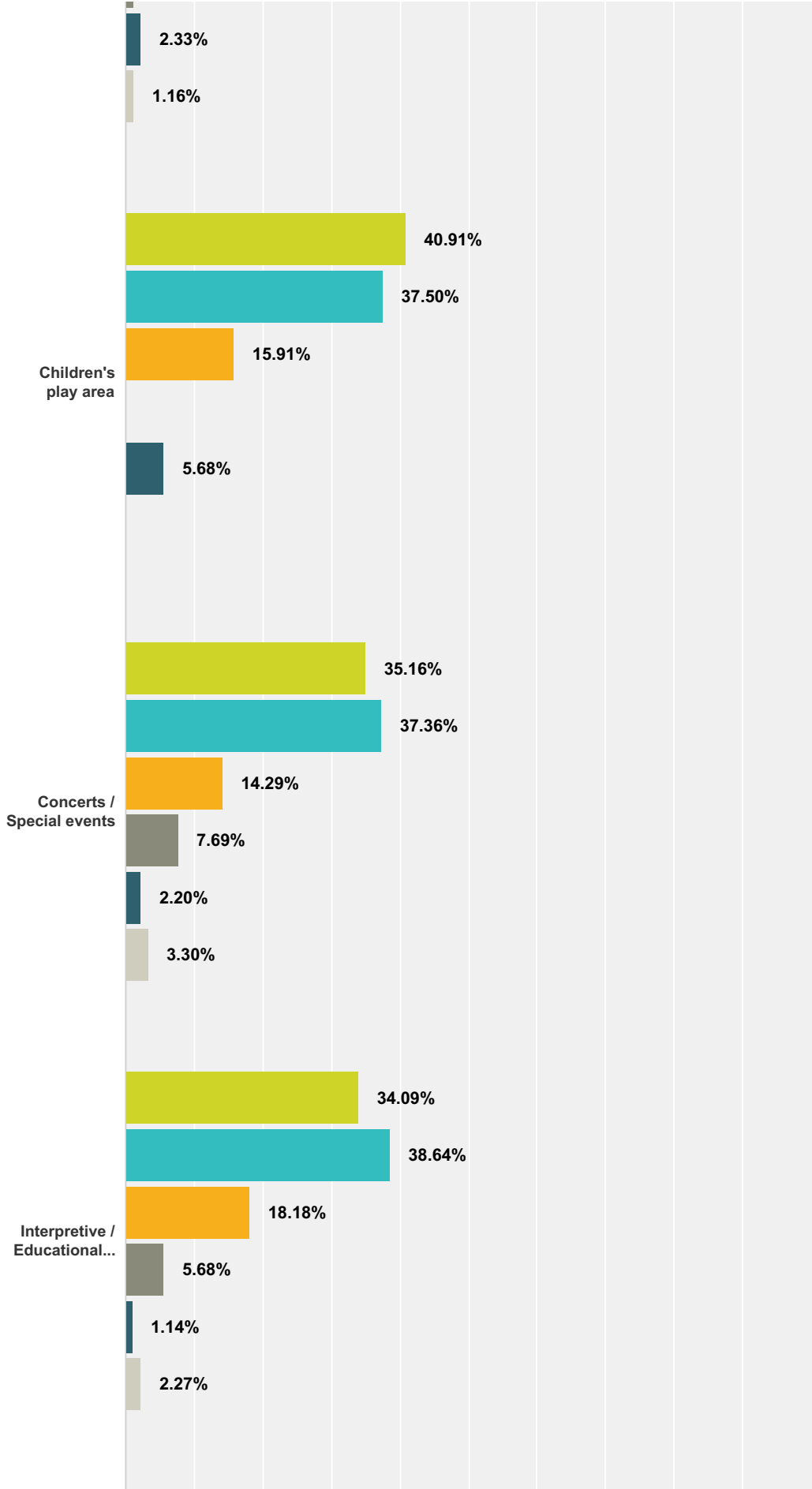
Answered: 93 Skipped: 20



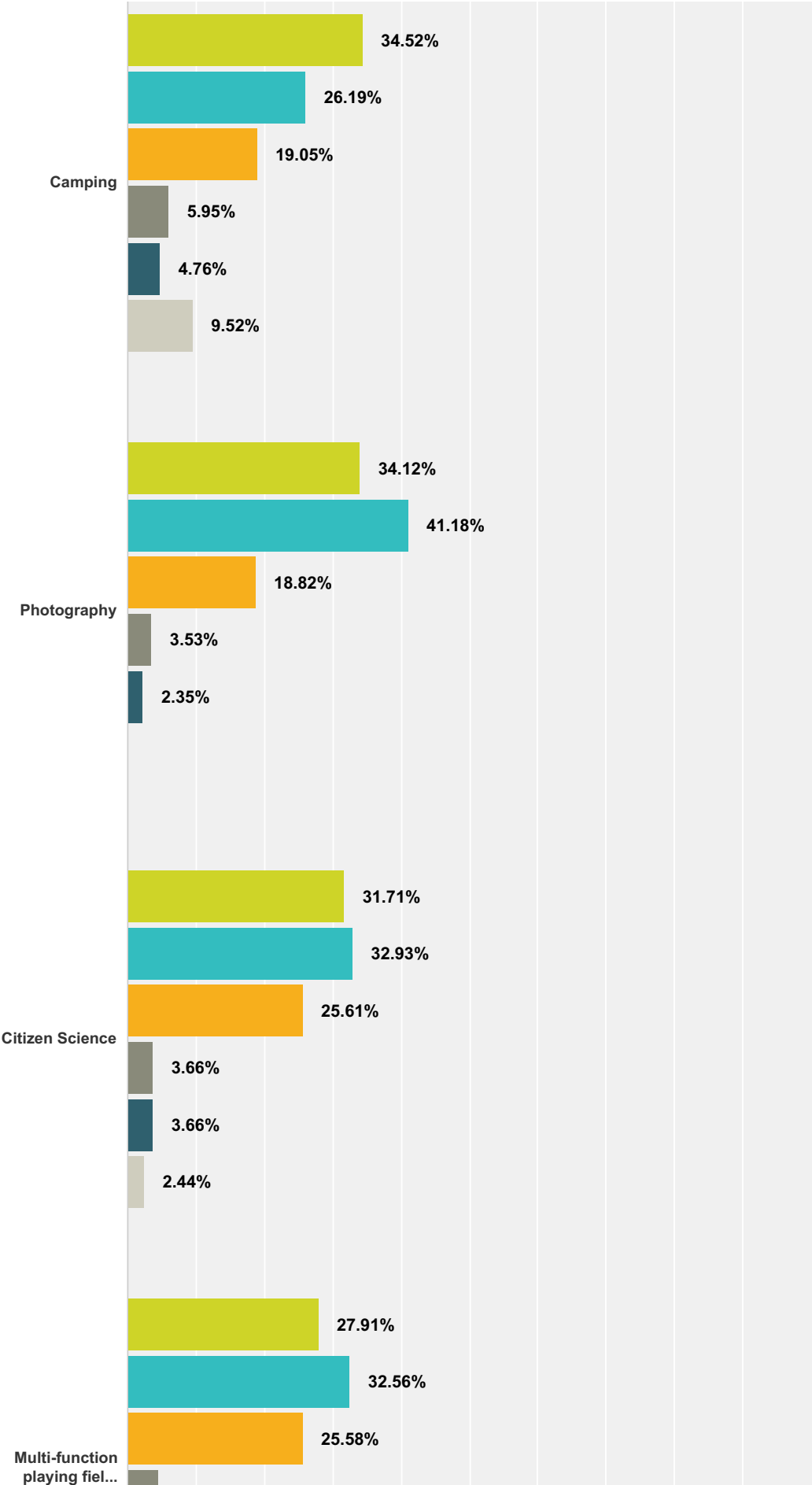
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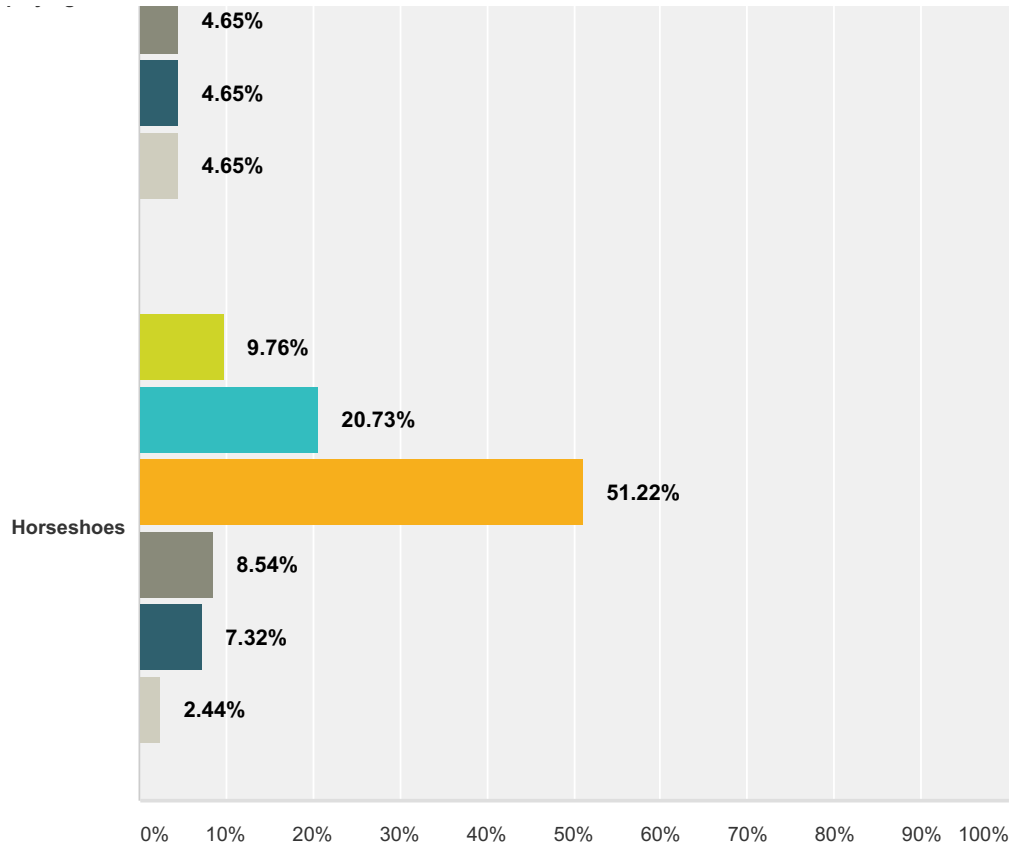
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Richmond Open Space and Recreation Survey



Richmond Open Space and Recreation Survey



■ Most important
 ■ Somewhat important
 ■ Neither important nor unimportant
 ■ Somewhat unimportant
 ■ Not important at all
 ■ Should not be allowed

	Most important	Somewhat important	Neither important nor unimportant	Somewhat unimportant	Not important at all	Should not be allowed	Total
Canoeing / Kayaking	69.89% 65	21.51% 20	6.45% 6	0.00% 0	2.15% 2	0.00% 0	93
Hiking	62.92% 56	30.34% 27	6.74% 6	0.00% 0	0.00% 0	0.00% 0	89
Picnicking	60.44% 55	25.27% 23	9.89% 9	1.10% 1	3.30% 3	0.00% 0	91
Swimming	56.04% 51	37.36% 34	4.40% 4	0.00% 0	1.10% 1	1.10% 1	91
Wildlife viewing	53.33% 48	36.67% 33	6.67% 6	0.00% 0	3.33% 3	0.00% 0	90
Winter activities such as ice skating, cross-country skiing and snowshoeing	48.91% 45	39.13% 36	9.78% 9	1.09% 1	1.09% 1	0.00% 0	92
Fishing	41.86% 36	33.72% 29	19.77% 17	1.16% 1	2.33% 2	1.16% 1	86
Children's play area	40.91% 36	37.50% 33	15.91% 14	0.00% 0	5.68% 5	0.00% 0	88
Concerts / Special events	35.16% 32	37.36% 34	14.29% 13	7.69% 7	2.20% 2	3.30% 3	91

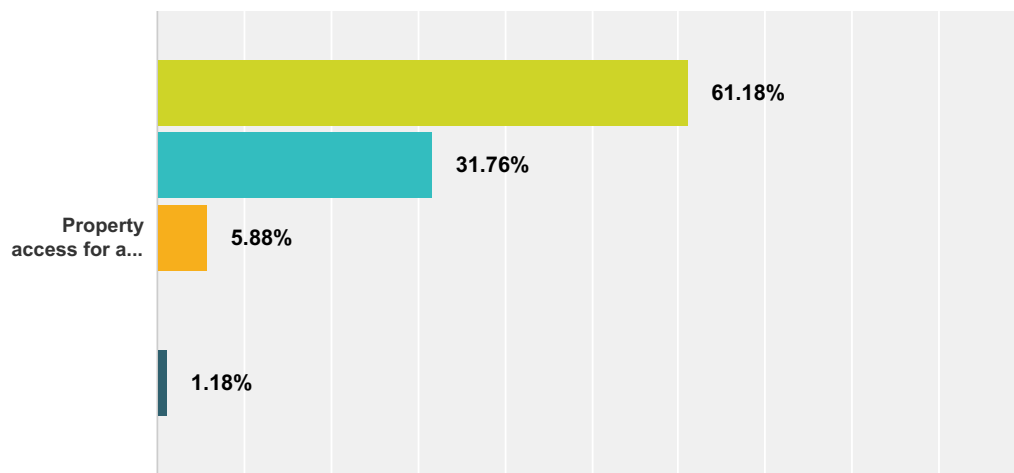
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Interpretive / Educational programming	34.09% 30	38.64% 34	18.18% 16	5.68% 5	1.14% 1	2.27% 2	88
Camping	34.52% 29	26.19% 22	19.05% 16	5.95% 5	4.76% 4	9.52% 8	84
Photography	34.12% 29	41.18% 35	18.82% 16	3.53% 3	2.35% 2	0.00% 0	85
Citizen Science	31.71% 26	32.93% 27	25.61% 21	3.66% 3	3.66% 3	2.44% 2	82
Multi-function playing fields or courts	27.91% 24	32.56% 28	25.58% 22	4.65% 4	4.65% 4	4.65% 4	86
Horseshoes	9.76% 8	20.73% 17	51.22% 42	8.54% 7	7.32% 6	2.44% 2	82

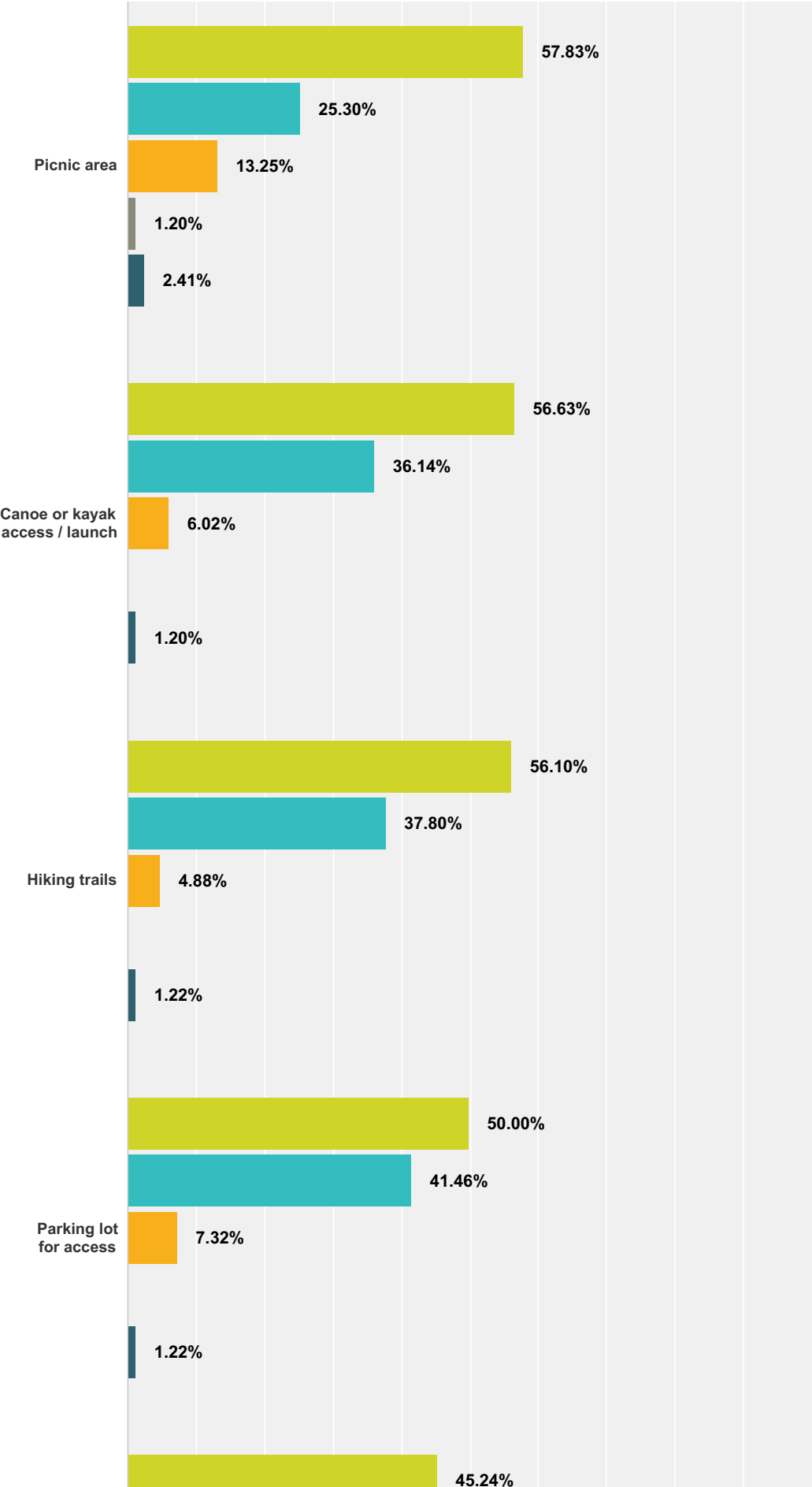
#	Other suggested uses (please specify)	Date
1	a handicapped access walking trail and swimming platform	5/29/2015 9:01 PM
2	Congregation Space for Teenagers	5/29/2015 12:11 PM
3	Continued support of scouting groups	5/26/2015 5:10 PM
4	dog park	5/19/2015 6:29 AM
5	rental for private use	5/13/2015 12:20 PM
6	Farm camp!	5/6/2015 9:33 PM
7	Handicapped! access!	4/26/2015 3:42 PM
8	allow the property to be rented for functions, group outings, company picnics	4/24/2015 5:19 PM
9	I think a private enterprise with Town restrictions would supply better capital and overall management of this area.	4/24/2015 2:05 PM
10	Dog park	4/24/2015 1:48 PM
11	I would like to see the annual town picnic at that location.	4/24/2015 1:27 PM

Q19 If Camp Marion White were to be purchased / preserved, what IMPROVEMENTS would be important for you to see there?

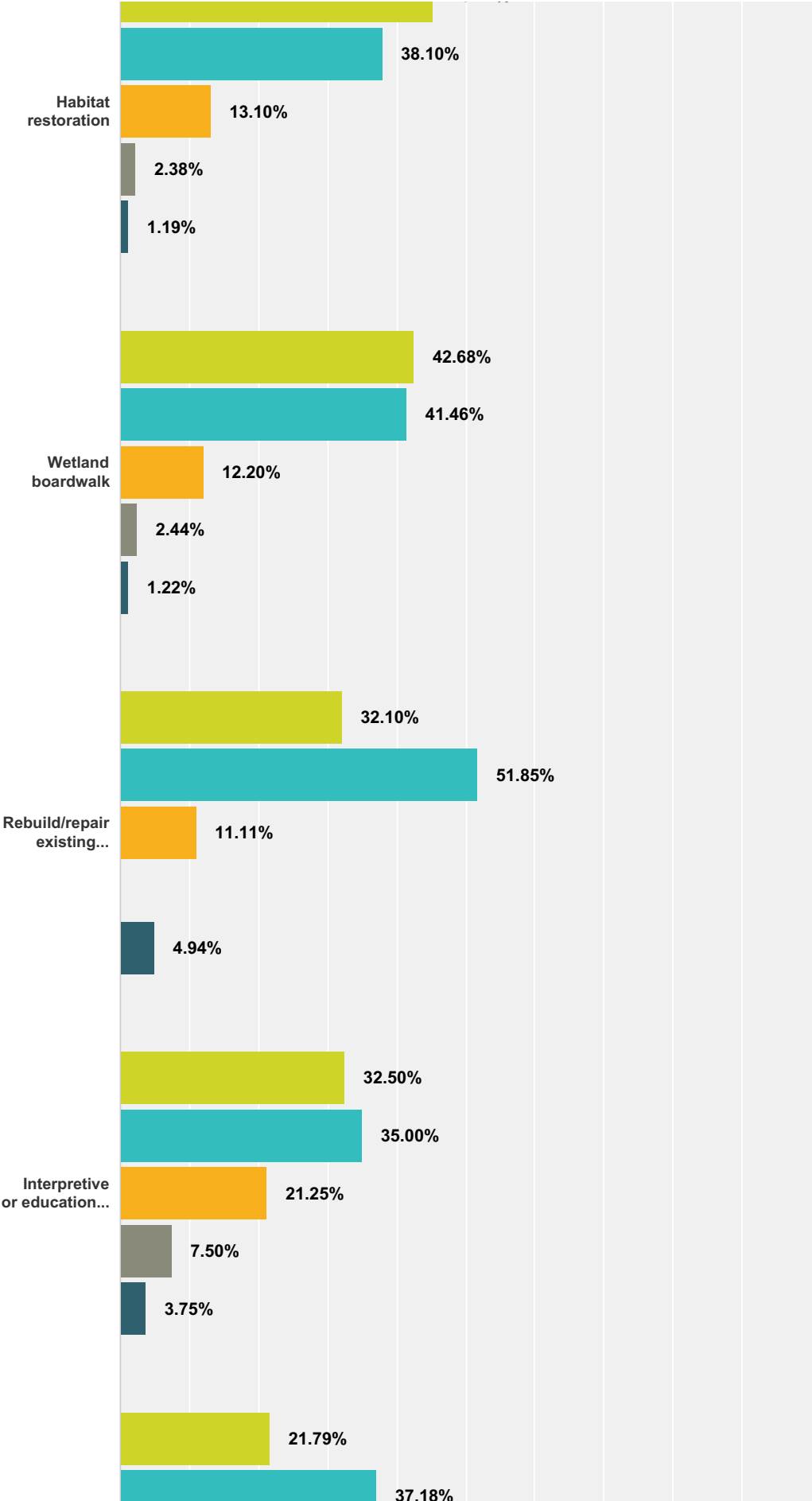
Answered: 88 Skipped: 25



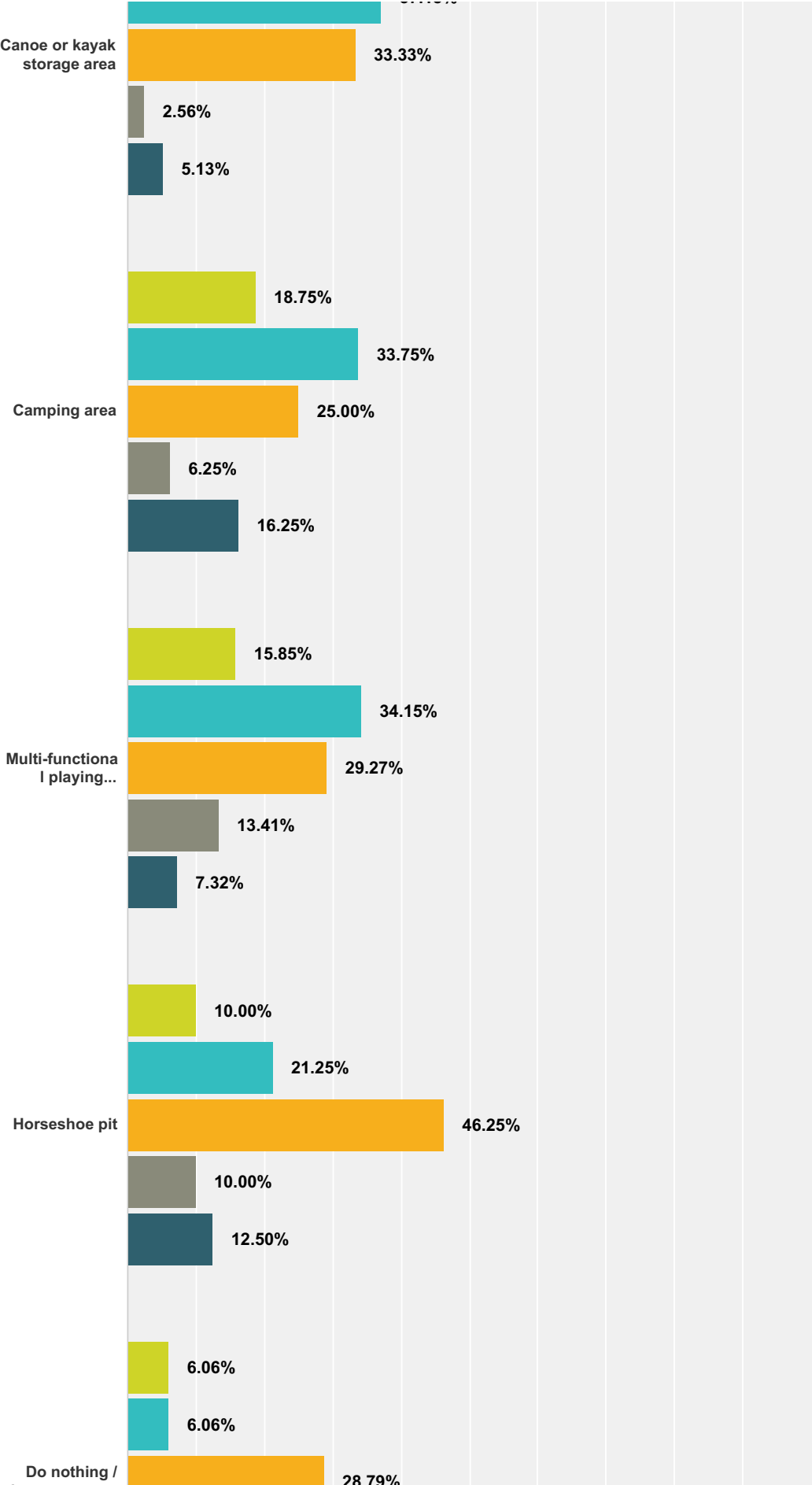
Richmond Open Space and Recreation Survey



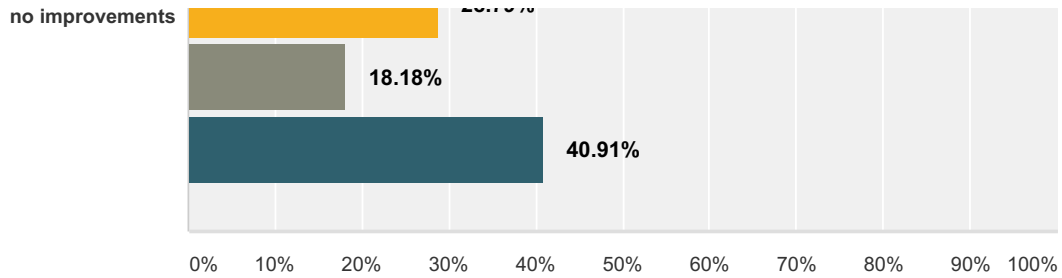
Richmond Open Space and Recreation Survey



Richmond Open Space and Recreation Survey



Richmond Open Space and Recreation Survey



■ Most important
 ■ Somewhat unimportant
 ■ Not important at all

	Most important	Somewhat important	Neither important nor unimportant	Somewhat unimportant	Not important at all	Total
Property access for all ages and abilities	61.18% 52	31.76% 27	5.88% 5	0.00% 0	1.18% 1	85
Picnic area	57.83% 48	25.30% 21	13.25% 11	1.20% 1	2.41% 2	83
Canoe or kayak access / launch	56.63% 47	36.14% 30	6.02% 5	0.00% 0	1.20% 1	83
Hiking trails	56.10% 46	37.80% 31	4.88% 4	0.00% 0	1.22% 1	82
Parking lot for access	50.00% 41	41.46% 34	7.32% 6	0.00% 0	1.22% 1	82
Habitat restoration	45.24% 38	38.10% 32	13.10% 11	2.38% 2	1.19% 1	84
Wetland boardwalk	42.68% 35	41.46% 34	12.20% 10	2.44% 2	1.22% 1	82
Rebuild/repair existing buildings	32.10% 26	51.85% 42	11.11% 9	0.00% 0	4.94% 4	81
Interpretive or educational trail	32.50% 26	35.00% 28	21.25% 17	7.50% 6	3.75% 3	80
Canoe or kayak storage area	21.79% 17	37.18% 29	33.33% 26	2.56% 2	5.13% 4	78
Camping area	18.75% 15	33.75% 27	25.00% 20	6.25% 5	16.25% 13	80
Multi-functional playing fields or courts	15.85% 13	34.15% 28	29.27% 24	13.41% 11	7.32% 6	82
Horseshoe pit	10.00% 8	21.25% 17	46.25% 37	10.00% 8	12.50% 10	80
Do nothing / no improvements	6.06% 4	6.06% 4	28.79% 19	18.18% 12	40.91% 27	66

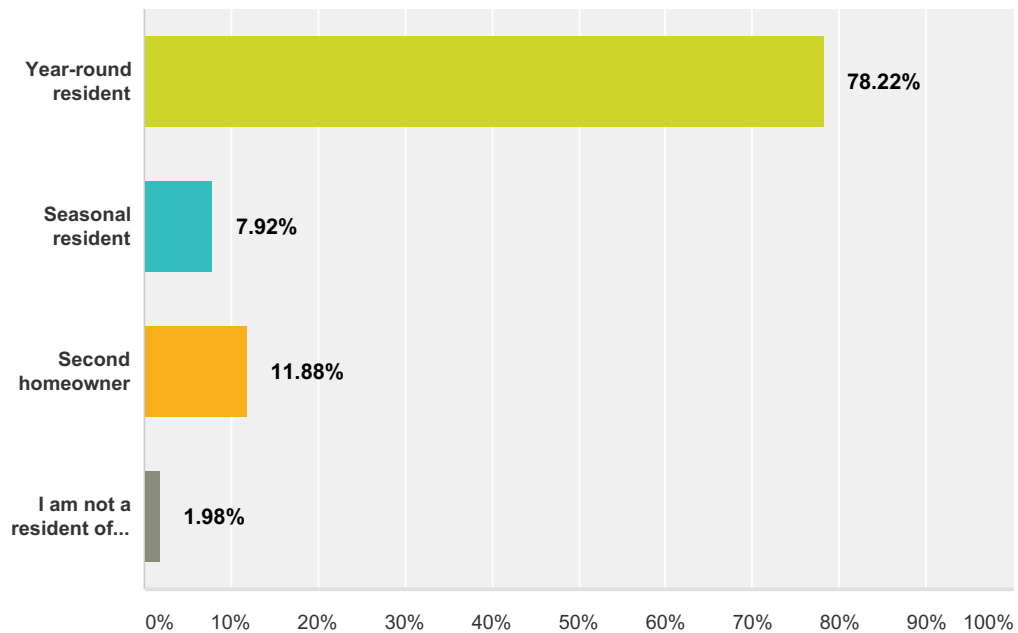
#	Other suggested improvements (please specify)	Date
1	I cannot answer any questions about Camp Marion White at this time.	6/5/2015 2:05 PM
2	bathroom	5/29/2015 9:01 PM
3	BUILD A GOLF COURSE	5/29/2015 4:07 PM

Richmond Open Space and Recreation Survey

4	See Above	5/29/2015 12:11 PM
5	Re establish appropriate fire pits	5/26/2015 5:10 PM
6	Never been so do not know what's needed	5/22/2015 8:34 PM
7	fenced area for dog park, 3+ acres	5/19/2015 6:29 AM
8	Preserve it from unrestricted development. "Affordable housing complex for Richmond seniors with lakefront view?"	5/14/2015 10:24 PM
9	Fitness trail with stops where participants do an exercise, then go on.	5/13/2015 10:23 PM
10	Connecting into Richmond sewer & Pittsfield water source.	4/24/2015 7:58 PM
11	Fix the roads and culverts	4/24/2015 2:01 PM
12	Repair buildings to the extent they present a risk or are useful toward a documented plan.	4/24/2015 1:27 PM
13	Don't know the area at all	4/24/2015 1:07 PM
14	Don't know the property well enough to know	4/24/2015 12:50 PM
15	children's play area	4/24/2015 12:41 PM

Q20 Are you a year-round resident, seasonal resident, or second homeowner in Richmond?

Answered: 101 Skipped: 12



Answer Choices	Responses
Year-round resident	78.22% 79
Seasonal resident	7.92% 8
Second homeowner	11.88% 12
I am not a resident of Richmond	1.98% 2

Richmond Open Space and Recreation Survey

Total

101

Q21 What is your age?

Answered: 95 Skipped: 18

#	Responses	Date
1	45-64 48	6/9/2015 4:22 PM
2	45-64 52	6/7/2015 9:00 PM
3	45-64 51	6/5/2015 11:36 AM
4	20-44 37	6/4/2015 10:26 PM
5	65+ 89	6/2/2015 10:51 AM
6	65+ 83	6/1/2015 5:07 PM
7	65+ 66	5/31/2015 1:41 PM
8	na	5/29/2015 9:01 PM
9	20-44 43	5/29/2015 4:08 PM
10	45-64 60+	5/29/2015 12:11 PM
11	45-64 56	5/29/2015 11:44 AM
12	65+ 78	5/29/2015 11:11 AM
13	45-64 55	5/28/2015 9:49 PM
14	45-64 60	5/27/2015 9:49 AM
15	45-64 46	5/26/2015 5:11 PM
16	45-64 55	5/26/2015 1:31 PM
17	45-64 54	5/24/2015 1:44 PM
18	45-64 55	5/24/2015 11:15 AM
19	65+ 80	5/24/2015 7:40 AM
20	45-64 63	5/22/2015 8:35 PM
21	65+ 69	5/22/2015 8:19 PM
22	65+ 76	5/22/2015 11:10 AM
23	20-44 low 40"s	5/22/2015 11:02 AM
24	65+ 70-75	5/22/2015 10:44 AM
25	65+ 65	5/22/2015 10:44 AM
26	45-64 60+	5/20/2015 5:51 PM
27	65+ 70	5/19/2015 4:50 PM
28	45-64 46	5/19/2015 6:29 AM
29	45-64 64	5/18/2015 11:22 AM
30	65+ 80	5/17/2015 2:37 PM
31	65+ 65	5/17/2015 12:51 PM
32	65+ 76	5/16/2015 12:18 PM

Richmond Open Space and Recreation Survey

33	20-44 37	5/15/2015 10:41 AM
34	65+ 79	5/15/2015 9:46 AM
35	45-64 60	5/14/2015 10:24 PM
36	65+ 69 years	5/14/2015 3:42 PM
37	65+ 80	5/13/2015 10:24 PM
38	45-64 64	5/13/2015 8:33 PM
39	65+ 85 yrs.	5/13/2015 3:03 PM
40	65+ 74	5/13/2015 12:53 PM
41	45-64 59	5/13/2015 12:20 PM
42	45-64 63	5/10/2015 3:53 PM
43	65+ 71	5/10/2015 8:47 AM
44	65+ 69	5/8/2015 3:42 PM
45	20-44 32	5/8/2015 2:16 PM
46	65+ 73	5/8/2015 11:01 AM
47	20-44 43	5/6/2015 9:33 PM
48	65+ 66	5/6/2015 8:57 PM
49	65+ 70	5/6/2015 7:19 PM
50	65+ 65	5/5/2015 8:10 AM
51	45-64 51	5/2/2015 12:06 PM
52	65+ 76	5/2/2015 12:11 AM
53	45-64 50	5/1/2015 10:08 AM
54	65+ 80=	4/30/2015 9:06 AM
55	20-44 42	4/29/2015 7:36 PM
56	65+ 77	4/29/2015 9:20 AM
57	45-64 54	4/29/2015 5:58 AM
58	65+ 72	4/28/2015 10:38 AM
59	65+ 80 years	4/27/2015 1:08 PM
60	45-64 54	4/27/2015 12:48 PM
61	45-64 52	4/27/2015 10:42 AM
62	20-44 34	4/26/2015 9:20 PM
63	65+ 67	4/26/2015 4:09 PM
64	45-64 53	4/26/2015 3:42 PM
65	65+ 66	4/26/2015 9:02 AM
66	20-44 40	4/26/2015 8:53 AM
67	45-64 60	4/25/2015 11:03 AM
68	65+ 66	4/25/2015 9:06 AM
69	65+ 66	4/25/2015 6:37 AM
70	45-64 55	4/24/2015 8:01 PM

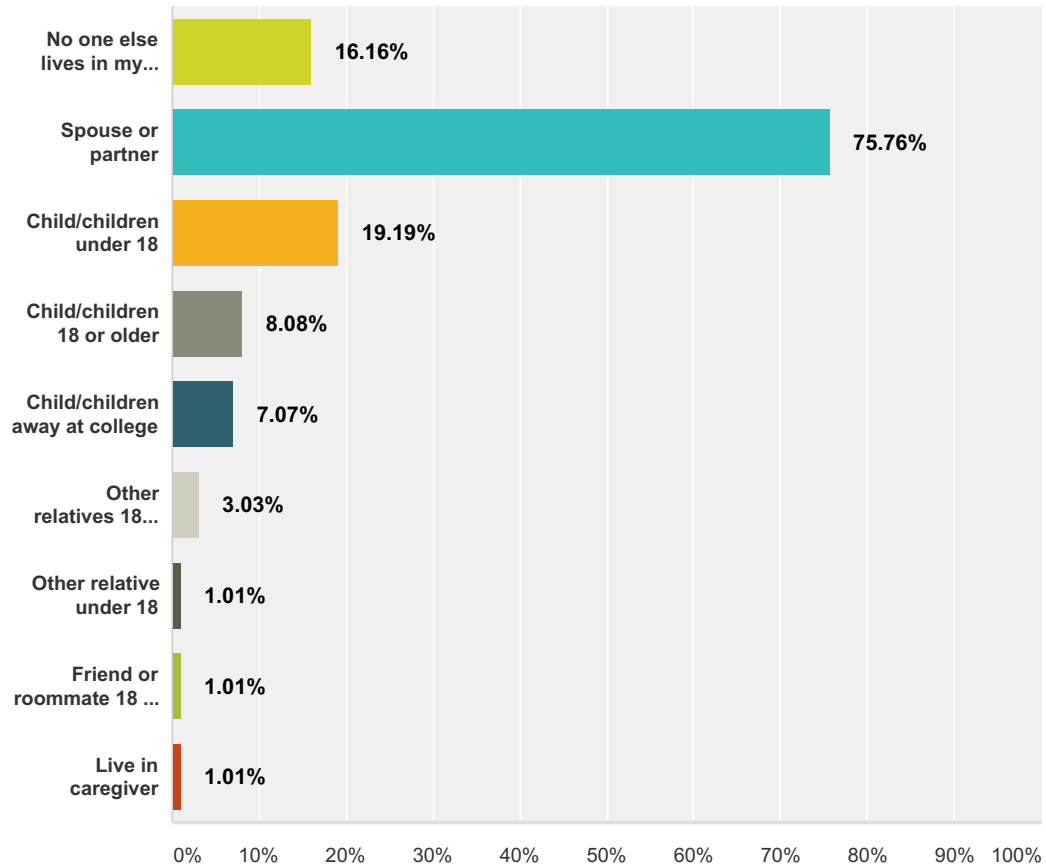
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71	65+ 67	4/24/2015 7:59 PM
72	20-44 21+	4/24/2015 7:31 PM
73	65+ 77	4/24/2015 5:54 PM
74	20-44 44	4/24/2015 5:19 PM
75	45-64 59	4/24/2015 4:55 PM
76	65+ 68	4/24/2015 3:14 PM
77	65+ eligible for social security	4/24/2015 2:38 PM
78	65+ 74	4/24/2015 2:38 PM
79	65+ 65	4/24/2015 2:20 PM
80	45-64 62	4/24/2015 2:06 PM
81	Old enough to know better	4/24/2015 2:02 PM
82	45-64 57	4/24/2015 1:49 PM
83	65+ 65	4/24/2015 1:48 PM
84	65+ 67	4/24/2015 1:28 PM
85	20-44 30	4/24/2015 1:21 PM
86	20-44 29	4/24/2015 1:08 PM
87	45-64 64	4/24/2015 1:07 PM
88	45-64 58	4/24/2015 1:00 PM
89	45-64 61	4/24/2015 12:53 PM
90	65+ 65	4/24/2015 12:50 PM
91	45-64 54	4/24/2015 12:48 PM
92	65+ 70	4/24/2015 12:42 PM
93	65+ 68	4/24/2015 12:37 PM
94	45-64 60	4/24/2015 12:36 PM
95	20-44 40	4/24/2015 12:35 PM

**Q22 In addition to you, who else lives in
your home? (Check all that apply)**

Answered: 99 Skipped: 14

Richmond Open Space and Recreation Survey



Answer Choices	Responses	
No one else lives in my house	16.16%	16
Spouse or partner	75.76%	75
Child/children under 18	19.19%	19
Child/children 18 or older	8.08%	8
Child/children away at college	7.07%	7
Other relatives 18 or older	3.03%	3
Other relative under 18	1.01%	1
Friend or roommate 18 or older	1.01%	1
Live in caregiver	1.01%	1
Total Respondents: 99		



APPENDIX E: POTENTIAL WALKING LOOP MAPS





APPENDIX F: BIOMAP2 REPORTS

BioMap2

CONSERVING THE BIODIVERSITY OF
MASSACHUSETTS IN A CHANGING WORLD

Richmond

Produced in 2012

This report and associated map provide information about
important sites for biodiversity conservation in your area.

**This information is intended for conservation planning, and is
not intended for use in state regulations.**





Table of Contents

Introduction

What is *BioMap2* – Purpose and applications

One plan, two components

Understanding Core Habitat and its components

Understanding Critical Natural Landscape and its components

Understanding Core Habitat and Critical Natural Landscape Summaries

Sources of Additional Information

Richmond Overview

Core Habitat and Critical Natural Landscape Summaries

Elements of *BioMap2* Cores

Core Habitat Summaries

Elements of *BioMap2* Critical Natural Landscapes

Critical Natural Landscape Summaries





Introduction

The Massachusetts Department of Fish & Game, through the Division of Fisheries and Wildlife's Natural Heritage & Endangered Species Program (NHESP), and The Nature Conservancy's Massachusetts Program developed *BioMap2* to protect the state's biodiversity in the context of climate change.

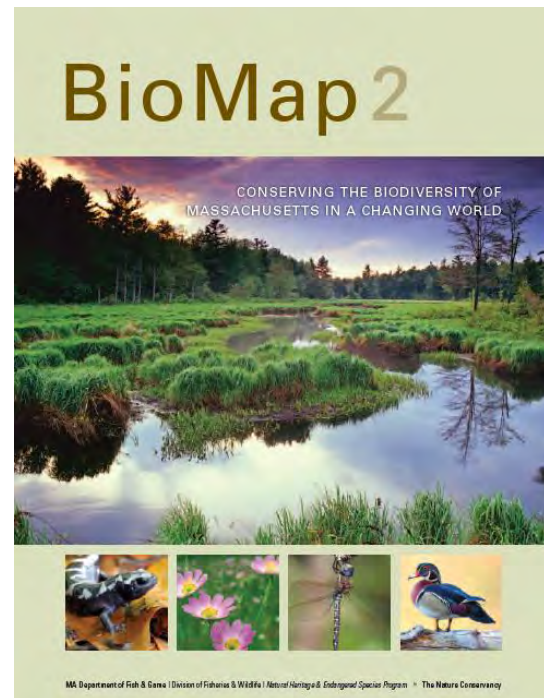
BioMap2 combines NHESP's 30 years of rigorously documented rare species and natural community data with spatial data identifying wildlife species and habitats that were the focus of the Division of Fisheries and Wildlife's 2005 State Wildlife Action Plan (SWAP). *BioMap2* also integrates The Nature Conservancy's assessment of large, well-connected, and intact ecosystems and landscapes across the Commonwealth, incorporating concepts of ecosystem resilience to address anticipated climate change impacts.

Protection and stewardship of *BioMap2* Core Habitat and Critical Natural Landscape is essential to safeguard the diversity of species and their habitats, intact ecosystems, and resilient natural landscapes across Massachusetts.

What Does Status Mean?

The Division of Fisheries and Wildlife determines a status category for each rare species listed under the Massachusetts Endangered Species Act (MESA), M.G.L. c.131A, and its implementing regulations 321 CMR 10.00. Rare species are categorized as Endangered, Threatened or of Special Concern according to the following:

- Endangered species are in danger of extinction throughout all or a significant portion of their range or are in danger of extirpation from Massachusetts.



Get your copy of the *BioMap2* report! Download from www.mass.gov/nhesp or contact Natural Heritage at 508-389-6360 or natural.heritage@state.ma.us.

- Threatened species are likely to become Endangered in Massachusetts in the foreseeable future throughout all or a significant portion of their range.
- Special Concern species have suffered a decline that could threaten the species if allowed to continue unchecked or occur in such small numbers or with such restricted distribution or specialized habitat requirements that they could easily become Threatened in Massachusetts.

In addition NHESP maintains an unofficial watch list of plants that are tracked due to potential conservation interest or concern, but are not regulated under the Massachusetts Endangered Species Act or other laws or regulations. Likewise, described natural communities are not regulated by any law or regulations, but they can help to identify





ecologically important areas that are worthy of protection. The status of natural communities reflects the documented number and acreages of each community type in the state:

- Critically Imperiled communities typically have 5 or fewer documented good sites or have very few remaining acres in the state.
- Imperiled communities typically have 6-20 good sites or few remaining acres in the state.
- Vulnerable communities typically have 21-100 good sites or limited acreage across the state.
- Secure communities typically have over 100 sites or abundant acreage across the state; however, excellent examples are identified as Core Habitat to ensure continued protection.

In 2005 the Massachusetts Division of Fisheries and Wildlife completed a comprehensive State Wildlife Action Plan (SWAP) documenting the status of Massachusetts wildlife and providing recommendations to help guide wildlife conservation decision-making. SWAP includes all the wildlife species listed under the Massachusetts Endangered Species Act (MESA), as well as more than 80 species that need conservation attention but do not meet the requirements for inclusion under MESA. The SWAP document is organized around habitat types in need of conservation within the Commonwealth. While the original BioMap focused primarily on rare species protected under MESA, *BioMap2* also addresses other Species of Conservation Concern, their habitats, and the ecosystems that support them to create a spatial representation of most of the elements of SWAP.

BioMap2: One Plan, Two Components

BioMap2 identifies two complementary spatial layers, Core Habitat and Critical Natural Landscape.

Core Habitat identifies key areas that are critical for the long-term persistence of rare species and other Species of Conservation Concern, as well as a wide diversity of natural communities and intact ecosystems across the Commonwealth. Protection of Core Habitats will contribute to the conservation of specific elements of biodiversity.

Critical Natural Landscape identifies large natural Landscape Blocks that are minimally impacted by development. If protected, these areas will provide habitat for wide-ranging native species, support intact ecological processes, maintain connectivity among habitats, and enhance ecological resilience to natural and anthropogenic disturbances in a rapidly changing world. Areas delineated as Critical Natural Landscape also include buffering upland around wetland, coastal, and aquatic Core Habitats to help ensure their long-term integrity.

The long-term persistence of Massachusetts biological resources requires a determined commitment to land and water conservation. Protection and stewardship of both Critical Natural Landscapes and Core Habitats are needed to realize the biodiversity conservation vision of *BioMap2*.

Components of Core Habitat

Core Habitat identifies specific areas necessary to promote the long-term persistence of rare species, other Species of Conservation Concern, exemplary natural communities, and intact ecosystems.

Rare Species

There are 432 native plant and animal species listed as Endangered, Threatened or Special Concern under the Massachusetts Endangered Species Act (MESA) based on their rarity, population trends, and threats to survival. For





Table 1. Species of Conservation Concern described in the State Wildlife Action Plan and/or included on the MESA List and for which habitat was mapped in *BioMap2*. Note that plants are not included in SWAP, and that marine species such as whales and sea turtles are not included in *BioMap2*.

Taxonomic Group	MESA-listed Species	Non-listed Species of Conservation Concern
Mammals	4	5
Birds	27	23
Reptiles	10	5
Amphibians	4	3
Fish	10	17
Invertebrates	102	9
Plants	256	0
Total	413	62

BioMap2, NHESP staff identified the highest quality habitat sites for each non-marine species based on size, condition, and landscape context.

Other Species of Conservation Concern

In addition to species on the MESA List described previously, the State Wildlife Action Plan (SWAP) identifies 257 wildlife species and 22 natural habitats most in need of conservation within the Commonwealth. *BioMap2* includes species-specific habitat areas for 45 of these species and habitat for 17 additional species which was mapped with other coarse-filter and fine-filter approaches.

Priority Natural Communities

Natural communities are assemblages of plant and animal species that share a common environment and occur together repeatedly on the landscape. *BioMap2* gives conservation

priority to natural communities with limited distribution and to the best examples of more common types.

Vernal Pools

Vernal pools are small, seasonal wetlands that provide important wildlife habitat, especially for amphibians and invertebrate animals that use them to breed. *BioMap2* identifies the top 5 percent most interconnected clusters of Potential Vernal Pools in the state.

Forest Cores

In *BioMap2*, Core Habitat includes the best examples of large, intact forests that are least impacted by roads and development, providing critical habitat for numerous woodland species. For example, the interior forest habitat defined by Forest Cores supports many bird species sensitive to the impacts of roads and development, such as the Black-throated Green Warbler, and helps maintain ecological processes found only in unfragmented forest patches.

Wetland Cores

BioMap2 used an assessment of Ecological Integrity to identify the least disturbed wetlands in the state within undeveloped landscapes—those with intact buffers and little fragmentation or other stressors associated with development. These wetlands are most likely to support critical wetland functions (i.e., natural hydrologic conditions, diverse plant and animal habitats, etc.) and are most likely to maintain these functions into the future.

Aquatic Cores

To delineate integrated and functional ecosystems for fish species and other aquatic





Species of Conservation Concern, beyond the species and exemplary habitats described above, *BioMap2* identifies intact river corridors within which important physical and ecological processes of the river or stream occur.

Components of Critical Natural Landscape

Critical Natural Landscape identifies intact landscapes in Massachusetts that are better able to support ecological processes and disturbance regimes, and a wide array of species and habitats over long time frames.

Landscape Blocks

BioMap2 identifies the most intact large areas of predominately natural vegetation, consisting of contiguous forests, wetlands, rivers, lakes, and ponds, as well as coastal habitats such as barrier beaches and salt marshes.

Upland Buffers of Wetland and Aquatic Cores

A variety of analyses were used to identify protective upland buffers around wetlands and rivers.

Upland Habitat to Support Coastal Adaptation

BioMap2 identifies undeveloped lands adjacent to and up to one and a half meters above existing salt marshes as Critical Natural Landscapes with high potential to support inland migration of salt marsh and other coastal habitats over the coming century.

The conservation areas identified by *BioMap2* are based on breadth and depth of data, scientific expertise, and understanding of Massachusetts' biodiversity. The numerous sources of information and analyses used to

Legal Protection of Biodiversity

BioMap2 presents a powerful vision of what Massachusetts would look like with full protection of the land most important for supporting the Commonwealth's biodiversity. While *BioMap2* is a planning tool with *no regulatory function*, all state-listed species enjoy legal protection under the [Massachusetts Endangered Species Act \(M.G.L. c.131A\)](#) and its implementing regulations ([321 CMR 10.00](#)). Wetland habitat of state-listed wildlife is also protected under the [Wetlands Protection Act Regulations \(310 CMR 10.00\)](#). The *Natural Heritage Atlas* contains maps of [Priority Habitats and Estimated Habitats](#), which are used, respectively, for regulation under the Massachusetts Endangered Species Act and the Wetlands Protection Act. For more information on rare species regulations, and to view Priority and Estimated Habitat maps, please see the [Regulatory Review](#) page at <http://www.mass.gov/eea/agencies/dfg/dfw/natural-heritage/regulatory-review/>.

BioMap2 is a conservation planning tool that does not, in any way, supplant the Estimated and Priority Habitat Maps which have regulatory significance. Unless and until the BioMap2 vision is fully realized, we must continue to protect our most imperiled species and their habitats.

create Core Habitat and Critical Natural Landscape are complementary, and outline a comprehensive conservation vision for Massachusetts, from rare species to intact landscapes. In total, these robust analyses define a suite of priority lands and waters that, if permanently protected, will support Massachusetts' natural systems for generations to come.





Understanding Core Habitat Summaries

Following the Town Overview, there is a descriptive summary of each Core Habitat and Critical Natural Landscape that occurs in your city or town. These summaries highlight some of the outstanding characteristics of each Core Habitat and Critical Natural Landscape, and will help you learn more about your city or town's biodiversity. You can find out more information about many of these species and natural communities by looking at specific fact sheets at www.mass.gov/nhesp.

Additional Information

For copies of the full *BioMap2* report, the Technical Report, and an [interactive mapping tool](#), visit the *BioMap2* [website](#) via the Land Protection and Planning tab at www.mass.gov/nhesp. If you have any questions about this report, or if you need help protecting land for biodiversity in your community, the Natural Heritage & Endangered Species Program staff looks forward to working with you.

Contact the Natural Heritage & Endangered Species Program

By phone 508-389-6360
By fax 508-389-7890
By email natural.heritage@state.ma.us
By Mail 100 Hartwell Street, Suite 230
West Boylston, MA 01583

The GIS datalayers of *BioMap2* are available for download from MassGIS at www.mass.gov/mgis.



**Natural Heritage
& Endangered
Species Program**

Massachusetts Division of Fisheries and Wildlife
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For more information on rare species and natural communities, please see our fact sheets online at www.mass.gov/nhesp.



Town Overview

Richmond lies on the border of the Taconic Mountains and the Western New England Marble Valleys/Berkshire Valley/Housatonic and Hoosic Valley Ecoregions. The Taconic Mountains Ecoregion is an area of high hills and low mountains that contain the highest point in the state, Mt. Greylock. Streams are high gradient and lakes and ponds are rare. Vegetation is generally northern hardwoods with some spruce-fir at higher elevations. The Western New England Marble Valleys Ecoregion is an area drained by the Hoosic and Housatonic Rivers. This ecoregion harbors farms, evergreen forests, transition and northern hardwood forests, and calcareous fens. The limestone-rich bedrock in the area creates alkaline lakes and streams.



Richmond at a Glance

- Total Area: 12,178 acres (19.0 square miles)
- Human Population in 2010: 1,475
- Open space protected in perpetuity: 993 acres, or 8.2% percent of total area*
- BioMap2 Core Habitat: 1,830 acres
- BioMap2 Core Habitat Protected: 218 acres or 11.9%
- BioMap2 Critical Natural Landscape: 3,759 acres
- BioMap2 Critical Natural Landscape Protected: 401 acres or 10.7%.

BioMap2 Components

Core Habitat

- 5 Exemplary or Priority Natural Community Cores
- 1 Forest Core
- 3 Wetland Cores
- 9 Aquatic Cores
- 19 Species of Conservation Concern Cores**
 - 4 birds, 1 amphibian, 1 fish, 1 insect, 14 plants

Critical Natural Landscape

- 2 Landscape Blocks
- 6 Wetland Core Buffers
- 8 Aquatic Core Buffers

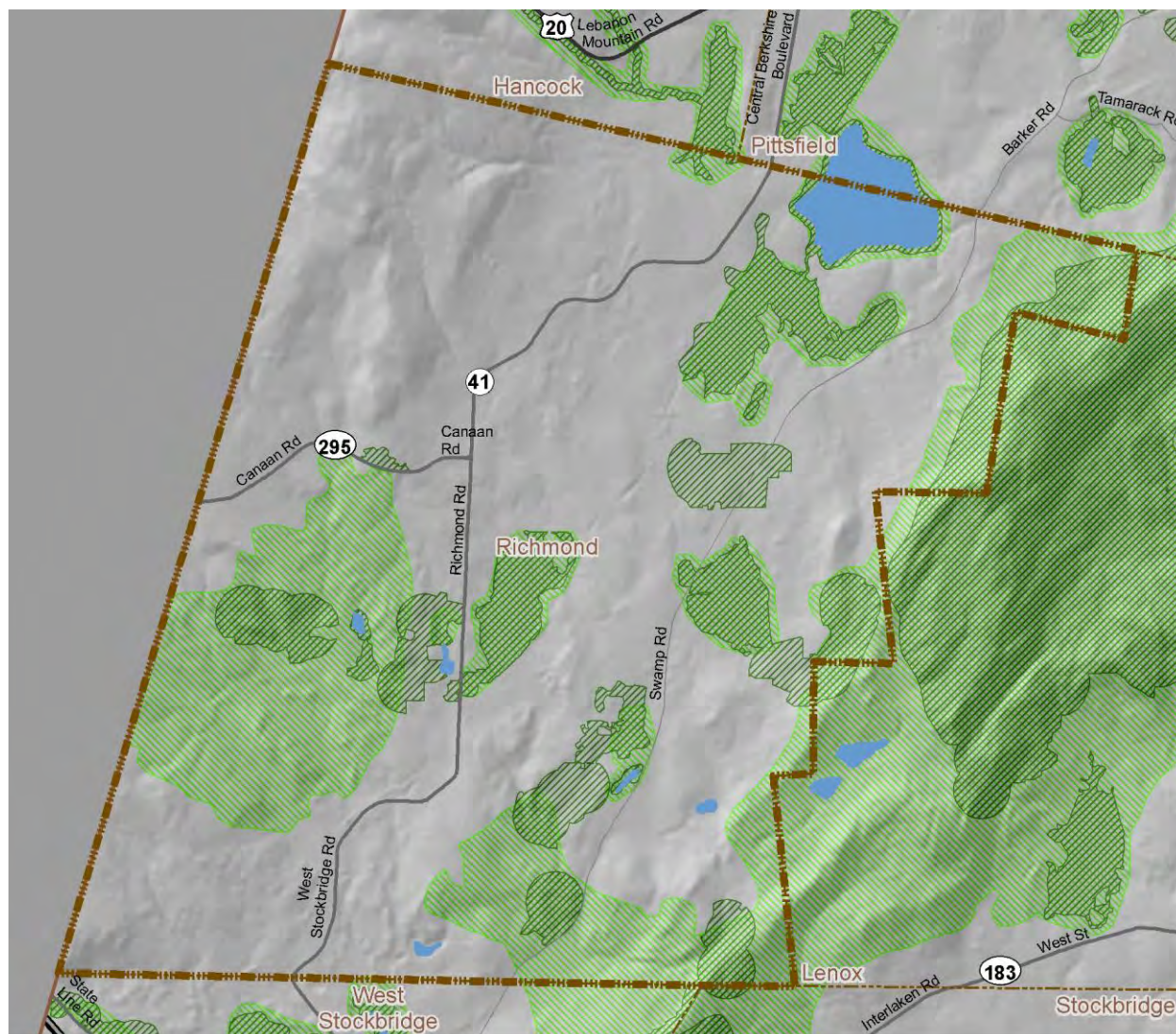
* Calculated using MassGIS data layer "Protected and Recreational Open Space—March, 2012".

** See next pages for complete list of species, natural communities and other biodiversity elements.





BioMap2 Core Habitat and Critical Natural Landscape in Richmond

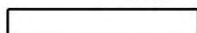


BioMap2 Core Habitat



BioMap2 Critical Natural Landscape

1 Mile



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Massachusetts Division of Fisheries and Wildlife

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phone: 508-389-6360 fax: 508-389-7890



**Species of Conservation Concern, Priority and Exemplary Natural Communities,
and Other Elements of Biodiversity in Richmond**

Insects

Butterflies

[Dion Skipper](#), (*Euphyes dion*), T

Amphibians

[Jefferson Salamander](#), (*Ambystoma jeffersonianum*), SC

Fishes

[Bridle Shiner](#), (*Notropis bifrenatus*), SC

Birds

[American Bittern](#), (*Botaurus lentiginosus*), E

[Sedge Wren](#), (*Cistothorus platensis*), E

[Common Moorhen](#), (*Gallinula chloropus*), SC

[Sora](#), (*Porzana carolina*), Non-listed SWAP

Plants

[Lyre-leaved Rock-cress](#), (*Arabis lyrata*), E

[Foxtail Sedge](#), (*Carex alopecoidea*), T

[Creeping Sedge](#), (*Carex chordorrhiza*), E

[Hitchcock's Sedge](#), (*Carex hitchcockiana*), SC

[Fen Sedge](#), (*Carex tetanica*), SC

[Hemlock Parsley](#), (*Conioselinum chinense*), SC

[Intermediate Spike-sedge](#), (*Eleocharis intermedia*), T

[Slender Cottongrass](#), (*Eriophorum gracile*), T

[Labrador Bedstraw](#), (*Galium labradoricum*), T

[Barren Strawberry](#), (*Geum fragarioides*), SC

[Woodland Millet](#), (*Milium effusum*), T

[Hill's Pondweed](#), (*Potamogeton hillii*), SC

[Great Laurel](#), (*Rhododendron maximum*), T

[Slender Blue-eyed Grass](#), (*Sisyrinchium mucronatum*), E

Priority Natural Communities

[Black Ash-Red Maple-Tamarack Calcareous Seepage Swamp](#), S2

[Calcareous Seepage Marsh](#), S2

[Calcareous Sloping Fen](#), S2

[Calcareous Rocky Summit/Rock Outcrop Community](#), S2

Other BioMap2 Components

[Forest Core](#)

[Aquatic Core](#)

[Wetland Core](#)





[Landscape Block](#)

[Aquatic Core Buffer](#)

[Wetland Core Buffer](#)

E = Endangered

T = Threatened

SC = Special Concern

S1 = Critically Imperiled communities, typically 5 or fewer documented sites or very few remaining acres in the state.

S2 = Imperiled communities, typically 6-20 sites or few remaining acres in the state.

S3 = Vulnerable communities, typically have 21-100 sites or limited acreage across the state.



**Natural Heritage
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Species Program**

Massachusetts Division of Fisheries and Wildlife

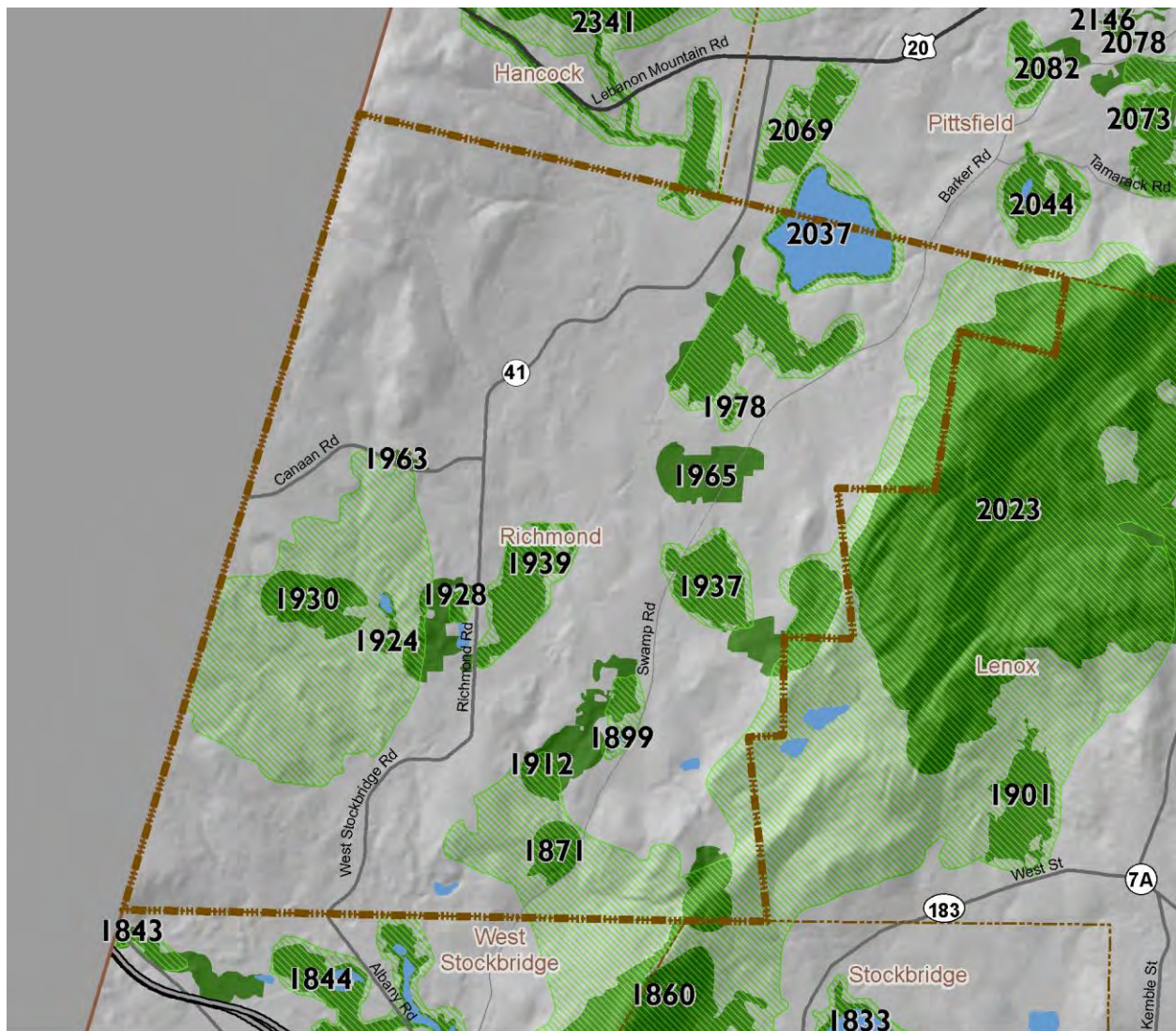
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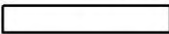
BioMap2 Core Habitat in Richmond

Core IDs correspond with the following element lists and summaries.



-  BioMap2 Core Habitat
-  BioMap2 Critical Natural Landscape

1 Mile



Natural Heritage
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Massachusetts Division of Fisheries and Wildlife

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phone: 508-389-6360 fax: 508-389-7890

For more information on rare species and natural communities, please see our fact sheets online at www.mass.gov/nhesp.

Elements of BioMap2 Cores

This section lists all elements of BioMap2 Cores that fall *entirely or partially* within Richmond. The elements listed here may not occur within the bounds of Richmond.

Core 1860

Forest Core

Wetland Core

Aquatic Core

Species of Conservation Concern

Downy Arrowwood	<i>Viburnum rafinesquianum</i>	E
Hill's Pondweed	<i>Potamogeton hillii</i>	SC
Long-leaved Bluet	<i>Houstonia longifolia</i>	E
Lyre-leaved Rock-cress	<i>Arabidopsis lyrata</i>	E
Smooth Rock-cress	<i>Boechera laevigata</i>	SC
Jefferson Salamander	<i>Ambystoma jeffersonianum</i>	SC
Sora	<i>Porzana carolina</i>	Non-listed SWAP

Core 1871

Species of Conservation Concern

Jefferson Salamander	<i>Ambystoma jeffersonianum</i>	SC
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Core 1899

Aquatic Core

Species of Conservation Concern

Hill's Pondweed	<i>Potamogeton hillii</i>	SC
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Core 1912

Aquatic Core

Priority & Exemplary Natural Communities

Black Ash-Red Maple-Tamarack Calcareous Seepage Swamp	S2
Calcareous Sloping Fen	S2

Species of Conservation Concern

Barren Strawberry	<i>Geum fragarioides</i>	SC
Fen Sedge	<i>Carex tetanica</i>	SC
Hitchcock's Sedge	<i>Carex hitchcockiana</i>	SC
Labrador Bedstraw	<i>Galium labradoricum</i>	T
Slender Blue-eyed Grass	<i>Sisyrinchium mucronatum</i>	E
Jefferson Salamander	<i>Ambystoma jeffersonianum</i>	SC



**Core 1924**

Wetland Core

Aquatic Core

Species of Conservation Concern

Hill's Pondweed

Potamogeton hillii

SC

Core 1928

Aquatic Core

Species of Conservation Concern

Labrador Bedstraw

Galium labradoricum

T

Jefferson Salamander

Ambystoma jeffersonianum

SC

Core 1930

Species of Conservation Concern

Jefferson Salamander

Ambystoma jeffersonianum

SC

Core 1937

Aquatic Core

Priority & Exemplary Natural Communities

Black Ash-Red Maple-Tamarack Calcareous Seepage Swamp

S2

Calcareous Rocky Summit/Rock Outcrop Community

S2

Calcareous Seepage Marsh

S2

Species of Conservation Concern

Great Laurel

Rhododendron maximum

T

Hemlock Parsley

Conioselinum chinense

SC

Labrador Bedstraw

Galium labradoricum

T

Woodland Millet

Milium effusum

T

Jefferson Salamander

Ambystoma jeffersonianum

SC

Core 1939

Wetland Core

Aquatic Core

Species of Conservation Concern

Fen Sedge

Carex tetanica

SC

Intermediate Spike-sedge

Eleocharis intermedia

T

Slender Cottongrass

Eriophorum gracile

T

American Bittern

Botaurus lentiginosus

E

Sedge Wren

Cistothorus platensis

E

Core 1963

Species of Conservation Concern

Hitchcock's Sedge

Carex hitchcockiana

SC

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phone: 508-389-6360 fax: 508-389-7890

**Core 1965**

Species of Conservation Concern

Jefferson Salamander	<i>Ambystoma jeffersonianum</i>	SC
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Core 1978

Aquatic Core

Species of Conservation Concern

Hill's Pondweed	<i>Potamogeton hillii</i>	SC
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Core 2023

Forest Core

Wetland Core

Aquatic Core

Vernal Pool Core

Priority & Exemplary Natural Communities

Rich, Mesic Forest Community		S3
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Species of Conservation Concern

Adder's-tongue Fern	<i>Ophioglossum pusillum</i>	T
Back's Sedge	<i>Carex backii</i>	E
Bush's Sedge	<i>Carex bushii</i>	E
Chestnut-colored Sedge	<i>Carex castanea</i>	E
Crooked-stem Aster	<i>Symphotrichum prenanthoides</i>	SC
Dwarf Scouring-rush	<i>Equisetum scirpoides</i>	SC
Fen Sedge	<i>Carex tetanica</i>	SC
Handsome Sedge	<i>Carex formosa</i>	T
Hill's Pondweed	<i>Potamogeton hillii</i>	SC
Hitchcock's Sedge	<i>Carex hitchcockiana</i>	SC
Intermediate Spike-sedge	<i>Eleocharis intermedia</i>	T
Northern Bedstraw	<i>Galium boreale</i>	E
Pale Green Orchis	<i>Platanthera flava</i> var. <i>herbiola</i>	T
Smooth Rock-cress	<i>Boechera laevigata</i>	SC
Early Hairstreak	<i>Erora laeta</i>	T
Mustard White	<i>Pieris oleracea</i>	T
Four-toed Salamander	<i>Hemidactylium scutatum</i>	Non-listed SWAP
Jefferson Salamander	<i>Ambystoma jeffersonianum</i>	SC
Spring Salamander	<i>Gyrinophilus porphyriticus</i>	Non-listed SWAP

Core 2037

Wetland Core

Aquatic Core

Species of Conservation Concern

Creeping Sedge	<i>Carex chordorrhiza</i>	E
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Foxtail Sedge	<i>Carex alopecoidea</i>	T
Slender Cottongrass	<i>Eriophorum gracile</i>	T
Dion Skipper	<i>Euphyes dion</i>	T
Bridle Shiner	<i>Notropis bifrenatus</i>	SC
American Bittern	<i>Botaurus lentiginosus</i>	E
Common Moorhen	<i>Gallinula chloropus</i>	SC
Sora	<i>Porzana carolina</i>	Non-listed SWAP

Core 2341B

Forest Core		
Wetland Core		
Aquatic Core		
Vernal Pool Core		
Priority & Exemplary Natural Communities		
Rich, Mesic Forest Community		S3
Species of Conservation Concern		
Bristly Black Currant	<i>Ribes lacustre</i>	SC
Crooked-stem Aster	<i>Symphotrichum prenanthoides</i>	SC
Jefferson Salamander	<i>Ambystoma jeffersonianum</i>	SC
Spring Salamander	<i>Gyrinophilus porphyriticus</i>	Non-listed SWAP





Core Habitat Summaries

Core 1860

A 1,761-acre Core Habitat featuring Forest Core, Wetland Core, Aquatic Core, and Species of Conservation Concern.

Forest Cores are the best examples of large, intact forests that are least impacted by roads and development. Forest Cores support many bird species sensitive to the impacts of roads and development and help maintain ecological processes found only in unfragmented forest patches.

Though small from a statewide perspective, this 1,106-acre Forest Core is the third largest in the ecoregion. It provides important habitat in the otherwise fragmented Berkshire Valleys ecoregion. This core is partially protected, with additional protection needed to support habitat functions.

Wetland Cores are the least disturbed wetlands in the state within undeveloped landscapes—those with intact buffers and little fragmentation or other stressors associated with development. These wetlands are most likely to support critical wetland functions (i.e., natural hydrologic conditions, diverse plant and animal habitats, etc.) and are most likely to maintain these functions into the future.

Aquatic Cores are intact river corridors within which important physical and ecological processes of the river or stream occur. They delineate integrated and functional ecosystems for fish species and other aquatic Species of Conservation Concern.

This shrub occurs on open rocky ridgelines, lightly wooded summits, and dry rocky slopes in open northern hardwood stands.

Hill's Pondweed is an herbaceous, submersed, aquatic plant with very slender stems. Hill's Pondweed's habitat is cold, clean, alkaline bodies of water.

Long-leaved Bluet grows in dry, sunny or lightly shaded habitats. Rocky openings with ledges and bedrock exposures are particularly favorable; dry sterile fields, gravel banks, roadsides, quarries and similar human-influenced habitats also provide suitable habitat.

In Massachusetts, Lyre-leaved Rock-cress, a member of the mustard family, inhabits thin soils and crevices of calcareous rocky cliffs, outcrops, and ledges, in full to filtered sun.

In Massachusetts, Smooth Rock-cress, a biennial mustard, inhabits rich, rocky deciduous woods, rich rocky hillsides, ledges, talus slopes, and floodplain thickets and woodlands. It occupies open to shaded sites on dry to mesic soils.

Adult and juvenile Jefferson Salamanders inhabit upland forests during most of the year, where they reside in small-mammal burrows and other subsurface retreats. Adults migrate during late winter or early spring to breed in vernal pools and fish-free areas of swamps, marshes, or similar wetlands. Larvae metamorphose in late summer or early fall, whereupon they disperse into upland forest.

Soras are secretive marshbirds that typically nest in dense cattail marshes with interspersed open water.





Core 1871

A 62-acre Core Habitat featuring a Species of Conservation Concern.

Adult and juvenile Jefferson Salamanders inhabit upland forests during most of the year, where they reside in small-mammal burrows and other subsurface retreats. Adults migrate during late winter or early spring to breed in vernal pools and fish-free areas of swamps, marshes, or similar wetlands. Larvae metamorphose in late summer or early fall, whereupon they disperse into upland forest.

Core 1899

An 8-acre Core Habitat featuring Aquatic Core and a Species of Conservation Concern.

Aquatic Cores are intact river corridors within which important physical and ecological processes of the river or stream occur. They delineate integrated and functional ecosystems for fish species and other aquatic Species of Conservation Concern.

Hill's Pondweed is an herbaceous, submersed, aquatic plant with very slender stems. Hill's Pondweed's habitat is cold, clean, alkaline bodies of water.

Core 1912

A 168-acre Core Habitat featuring Aquatic Core, Priority Natural Communities, and Species of Conservation Concern.

Aquatic Cores are intact river corridors within which important physical and ecological processes of the river or stream occur. They delineate integrated and functional ecosystems for fish species and other aquatic Species of Conservation Concern.

Black Ash-Red Maple-Tamarack Calcareous Seepage Swamps are mixed deciduous-coniferous forested swamps occurring in areas where there is calcium-rich groundwater seepage. This nutrient enrichment supports many rare calcium-loving plant species. This small example of a Black Ash-Red Maple-Tamarack Calcareous Seepage Swamp is in good condition and is associated with several state-listed plant species.

Calcareous Sloping Fens are open, sedge-dominated wetlands occurring on slight to moderate slopes where there is calcareous groundwater seepage. They tend to be "hot spots" for uncommon species, often containing multiple state-listed species. This small calcareous sloping fen is in a pipeline cut maintained by mowing the surrounding agriculture field. It has diverse native species and some invasive exotics.

Barren Strawberry is a short herbaceous perennial that occurs on rich soils near streams in a variety of forest types.

In Massachusetts, the Fen Sedge grows primarily in open, wet fens and meadows where there is calcareous groundwater seepage. It also occurs in openings within large calcareous seepage swamps.

Hitchcock's Sedge occurs in rich mesic woods, often in areas overlying calcareous bedrock.

Labrador Bedstraw, a slender perennial herb of the madder family, inhabits calcareous fens, wet meadows, and swamps, often on hummocks or tussocks in full or filtered sunlight.





Slender Blue-eyed Grass, a member of the Iris family, inhabits sunny, calcium-rich wetlands. These include fields, meadows, borders of calcareous fens, and, occasionally, moist roadsides with limey soils.

Adult and juvenile Jefferson Salamanders inhabit upland forests during most of the year, where they reside in small-mammal burrows and other subsurface retreats. Adults migrate during late winter or early spring to breed in vernal pools and fish-free areas of swamps, marshes, or similar wetlands. Larvae metamorphose in late summer or early fall, whereupon they disperse into upland forest.

Core 1924

A 21-acre Core Habitat featuring Wetland Core, Aquatic Core, and a Species of Conservation Concern.

Wetland Cores are the least disturbed wetlands in the state within undeveloped landscapes—those with intact buffers and little fragmentation or other stressors associated with development. These wetlands are most likely to support critical wetland functions (i.e., natural hydrologic conditions, diverse plant and animal habitats, etc.) and are most likely to maintain these functions into the future.

Aquatic Cores are intact river corridors within which important physical and ecological processes of the river or stream occur. They delineate integrated and functional ecosystems for fish species and other aquatic Species of Conservation Concern.

Hill's Pondweed is an herbaceous, submersed, aquatic plant with very slender stems. Hill's Pondweed's habitat is cold, clean, alkaline bodies of water.

Core 1928

A 109-acre Core Habitat featuring Aquatic Core and Species of Conservation Concern.

Aquatic Cores are intact river corridors within which important physical and ecological processes of the river or stream occur. They delineate integrated and functional ecosystems for fish species and other aquatic Species of Conservation Concern.

Labrador Bedstraw, a slender perennial herb of the madder family, inhabits calcareous fens, wet meadows, and swamps, often on hummocks or tussocks in full or filtered sunlight.

Adult and juvenile Jefferson Salamanders inhabit upland forests during most of the year, where they reside in small-mammal burrows and other subsurface retreats. Adults migrate during late winter or early spring to breed in vernal pools and fish-free areas of swamps, marshes, or similar wetlands. Larvae metamorphose in late summer or early fall, whereupon they disperse into upland forest.

Core 1930

A 127-acre Core Habitat featuring a Species of Conservation Concern.

Adult and juvenile Jefferson Salamanders inhabit upland forests during most of the year, where they reside in small-mammal burrows and other subsurface retreats. Adults migrate during late winter or early spring to breed in vernal pools and fish-free areas of swamps, marshes, or similar wetlands. Larvae metamorphose in late summer or early fall, whereupon they disperse into upland forest.





Core 1937

A 300-acre Core Habitat featuring Aquatic Core, Priority Natural Communities, and Species of Conservation Concern.

Aquatic Cores are intact river corridors within which important physical and ecological processes of the river or stream occur. They delineate integrated and functional ecosystems for fish species and other aquatic Species of Conservation Concern.

Black Ash-Red Maple-Tamarack Calcareous Seepage Swamps are mixed deciduous-coniferous forested swamps occurring in areas where there is calcium-rich groundwater seepage. This nutrient enrichment supports many rare calcium-loving plant species. This is a large example of a good-quality Black Ash - Red Maple - Tamarack Calcareous Seepage Swamp that is associated with several state-listed plant species.

Calcareous Rocky Summit/Rock Outcrop Communities are sparsely vegetated, dry, open communities, typically found on the ridge tops in the marble regions of Berkshire County. Their open aspect is maintained by trees uprooting and falling. This small calcareous rock outcrop has good diversity and moderate landscape context in association with other priority communities.

Calcareous Seepage Marshes are marshy wetlands enriched by calcareous groundwater seepage. Of the three types of calcareous fen communities described in Massachusetts, they are intermediate in richness and in botanical rarities. This large seepage marsh has good native diversity and some patches of non-native invasive species. It is surrounded by another priority community.

Great Laurel, a member of the Heath family, is an evergreen shrub or small tree that grows up to 10 m high. It is a plant of moist woods, swamps, and the edges of ponds.

In Massachusetts, Hemlock Parsley is usually found in swamps, wet meadows, bogs or fens, and marshy forests. It can tolerate shady environments and wet, acidic soils, although it is usually found in less acidic (circumneutral to limy) wetlands.

Labrador Bedstraw, a slender perennial herb of the madder family, inhabits calcareous fens, wet meadows, and swamps, often on hummocks or tussocks in full or filtered sunlight.

Woodland Millet is typically found on steep slopes in rich, mesic forest communities with calcareous soils. Its microhabitat often includes the drier, rocky upper slopes of the woodland.

Adult and juvenile Jefferson Salamanders inhabit upland forests during most of the year, where they reside in small-mammal burrows and other subsurface retreats. Adults migrate during late winter or early spring to breed in vernal pools and fish-free areas of swamps, marshes, or similar wetlands. Larvae metamorphose in late summer or early fall, whereupon they disperse into upland forest.

Core 1939

A 160-acre Core Habitat featuring Wetland Core, Aquatic Core, and Species of Conservation Concern.

Wetland Cores are the least disturbed wetlands in the state within undeveloped landscapes—those with intact buffers and little fragmentation or other stressors associated with development. These wetlands are most likely to support critical wetland functions (i.e., natural hydrologic conditions, diverse plant and animal habitats, etc.) and are most likely to maintain these functions into the future.





The 127-acre Wetland Core is among the largest 20% of Wetland Cores statewide and in this ecoregion.

Aquatic Cores are intact river corridors within which important physical and ecological processes of the river or stream occur. They delineate integrated and functional ecosystems for fish species and other aquatic Species of Conservation Concern.

In Massachusetts, the Fen Sedge grows primarily in open, wet fens and meadows where there is calcareous groundwater seepage. It also occurs in openings within large calcareous seepage swamps.

In Massachusetts, Intermediate Spike-sedge, a small, densely tufted annual, is found on muddy, alkaline river banks and pond shores, usually during periods of low water when mud is exposed.

Slender Cottongrass is a plant of swamps and peatlands. Habitats in Massachusetts include acidic and calcareous fens and portions of seepage swamps.

American Bitterns are heron-like birds that nest primarily in large cattail, tussock or shrub marshes and are very sensitive to disturbance.

Sedge Wrens nest in large wet meadows. They are sensitive to changes in hydrology and seral succession.

Core 1963

An 11-acre Core Habitat featuring a Species of Conservation Concern.

Hitchcock's Sedge occurs in rich mesic woods, often in areas overlying calcareous bedrock.

Core 1965

A 125-acre Core Habitat featuring a Species of Conservation Concern.

Adult and juvenile Jefferson Salamanders inhabit upland forests during most of the year, where they reside in small-mammal burrows and other subsurface retreats. Adults migrate during late winter or early spring to breed in vernal pools and fish-free areas of swamps, marshes, or similar wetlands. Larvae metamorphose in late summer or early fall, whereupon they disperse into upland forest.

Core 1978

An 8-acre Core Habitat featuring Aquatic Core and a Species of Conservation Concern.

Aquatic Cores are intact river corridors within which important physical and ecological processes of the river or stream occur. They delineate integrated and functional ecosystems for fish species and other aquatic Species of Conservation Concern.

Hill's Pondweed is an herbaceous, submersed, aquatic plant with very slender stems. Hill's Pondweed's habitat is cold, clean, alkaline bodies of water.

Core 2023

A 3,414-acre Core Habitat featuring Forest Core, Wetland Core, Aquatic Core, Vernal Pool Core, Priority Natural Communities, and Species of Conservation Concern.

The Core Habitat of Lenox Mountain and Yokun Brook is home to 20 rare and uncommon species of plants and animals. A Forest Core covers much of Lenox Mountain itself. One of the state's best populations of Jefferson Salamanders is found in the lowlands and lower slopes of the mountain, along





Yokun Brook. The rich bedrock here, especially along Yokun Brook and near Mahanna Cobble, supports four Endangered plants, as well as eleven other rare plants.

Rich, Mesic Forests are a variant of northern hardwood forests, dominated by sugar maple with a diverse herbaceous layer that includes many spring wild flowers, in a moist, nutrient-rich environment. This Core has two examples of Rich, Mesic Forest including one that is of moderate size, but in very good condition, with topographical diversity - rock outcrops, gullies, and the like - that provides a rich array of microhabitats for various unusual plant species.

Forest Cores are the best examples of large, intact forests that are least impacted by roads and development. Forest Cores support many bird species sensitive to the impacts of roads and development and help maintain ecological processes found only in unfragmented forest patches.

Wetlands Cores are the least disturbed wetlands in the state within undeveloped landscapes — those with intact buffers and little fragmentation or other stressors associated with development. These wetlands are most likely to support critical wetland functions (i.e., natural hydrologic conditions, diverse plant and animal habitats, etc.) and are most likely to maintain these functions into the future.

Aquatic Cores are intact river corridors within which important physical and ecological processes of the river or stream occur. They delineate integrated and functional ecosystems for fish species and other aquatic Species of Conservation Concern.

Vernal pools are small, seasonal wetlands that provide important wildlife habitat, especially for amphibians and invertebrate animals that use them to breed. *BioMap2* identifies the top 5 percent most interconnected clusters of Potential Vernal Pools in the state.

Core 2037

A 525-acre Core Habitat featuring Wetland Core, Aquatic Core, and Species of Conservation Concern.

Wetland Cores are the least disturbed wetlands in the state within undeveloped landscapes — those with intact buffers and little fragmentation or other stressors associated with development. These wetlands are most likely to support critical wetland functions (i.e., natural hydrologic conditions, diverse plant and animal habitats, etc.) and are most likely to maintain these functions into the future.

The 176-acre Wetland Core is among the largest 20% of Wetland Cores statewide and in this ecoregion.

Aquatic Cores are intact river corridors within which important physical and ecological processes of the river or stream occur. They delineate integrated and functional ecosystems for fish species and other aquatic Species of Conservation Concern.

Creeping Sedge is a perennial, herbaceous, grass-like plant of sphagnum bogs and fens, usually in areas over calcareous bedrock. It is named for its unusual prostrate, creeping growth pattern, where decumbent stems from the previous year send up new shoots from the nodes.

Foxtail Sedge is a perennial, herbaceous, grass-like plant found in calcareous wet meadows of river floodplains.

Slender Cottongrass is a plant of swamps and peatlands. Habitats in Massachusetts include acidic and calcareous fens and portions of seepage swamps.





Dion Skipper Butterflies inhabit sedge wetlands. Adults nectar in nearby upland fields.

Bridle Shiners are small (<5 cm) minnows that are found in clear water in slack areas of streams and rivers and are also found in lakes and ponds.

American Bitterns are heron-like birds that nest primarily in large cattail, tussock or shrub marshes and are very sensitive to disturbance.

Common Moorhens are fowl-like marshbirds that typically nest in dense cattail beds adjacent to open water.

Soras are secretive marshbirds that typically nest in dense cattail marshes with interspersed open water.

Core 2341B

A 10,352-acre section of a larger 11,593-acre Core Habitat featuring Forest Core, Wetland Core, Aquatic Core, Vernal Pool Core, Priority Natural Communities, and Species of Conservation Concern.

Much of the Town of Hancock and of Pittsfield State Forest is in a large Forest Core that stretches north-south along the Taconic Range here. Although this part of a Core Habitat is not a rare species hotspot, it does support three rare species, including several good populations of Jefferson Salamander.

Rich, Mesic Forests are a variant of northern hardwood forests, dominated by sugar maple with a diverse herbaceous layer that includes many spring wild flowers, in a moist, nutrient-rich environment. This patch of Rich, Mesic Forest is surrounded by a large area of northern hardwood forest. There are scattered invasive species throughout this working forest.

Forest Cores are the best examples of large, intact forests that are least impacted by roads and development. Forest Cores support many bird species sensitive to the impacts of roads and development and help maintain ecological processes found only in unfragmented forest patches.

Wetlands Cores are the least disturbed wetlands in the state within undeveloped landscapes—those with intact buffers and little fragmentation or other stressors associated with development. These wetlands are most likely to support critical wetland functions (i.e., natural hydrologic conditions, diverse plant and animal habitats, etc.) and are most likely to maintain these functions into the future.

Aquatic Cores are intact river corridors within which important physical and ecological processes of the river or stream occur. They delineate integrated and functional ecosystems for fish species and other aquatic Species of Conservation Concern.

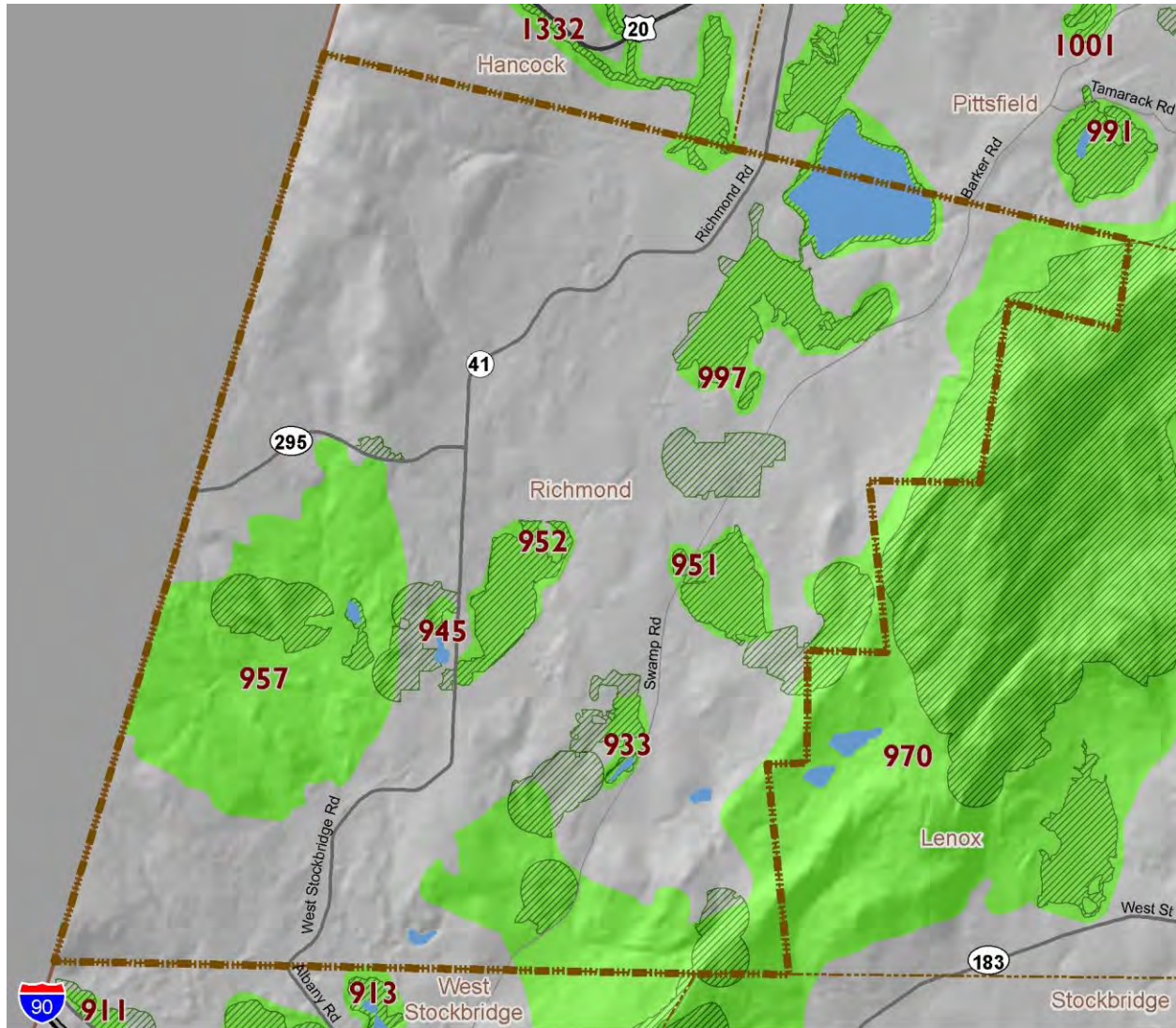
Vernal pools are small, seasonal wetlands that provide important wildlife habitat, especially for amphibians and invertebrate animals that use them to breed. *BioMap2* identifies the top 5 percent most interconnected clusters of Potential Vernal Pools in the state.





BioMap2 Critical Natural Landscape in Richmond

Critical Natural Landscape IDs correspond with the following element lists and summaries.



BioMap2 Core Habitat



BioMap2 Critical Natural Landscape

1 Mile



Natural Heritage
& Endangered
Species Program

Massachusetts Division of Fisheries and Wildlife

1 Rabbit Hill Road, Westborough, MA 01581

phone: 508-389-6360 fax: 508-389-7890

For more information on rare species and natural communities, please see our fact sheets online at www.mass.gov/nhesp.



Elements of BioMap2 Critical Natural Landscapes

This section lists all elements of BioMap2 Critical Natural Landscapes that fall *entirely or partially* within Richmond. The elements listed here may not occur within the bounds of Richmond.

CNL 913

Aquatic Core Buffer

CNL 933

Aquatic Core Buffer

Wetland Core Buffer

CNL 945

Aquatic Core Buffer

CNL 951

Aquatic Core Buffer

Wetland Core Buffer

CNL 952

Aquatic Core Buffer

Wetland Core Buffer

CNL 957

Aquatic Core Buffer

Landscape Block

Wetland Core Buffer

CNL 970

Aquatic Core Buffer

Landscape Block

Wetland Core Buffer

CNL 997

Aquatic Core Buffer

Wetland Core Buffer

CNL 1332

Aquatic Core Buffer

Landscape Block

Wetland Core Buffer





Critical Natural Landscape Summaries

CNL 913

A 377-acre Critical Natural Landscape featuring Aquatic Core Buffer.

A variety of analyses were used to identify protective upland buffers around wetlands and rivers. One, the variable width buffers methodology, included the most intact areas around each wetland and river, by extending deeper into surrounding unfragmented habitats than into developed areas adjacent to each wetland. Other upland buffers were identified through the rare species habitat analysis. In this way, the conservation of wetland buffers will support the habitats and functionality of each wetland, and also include adjacent uplands that are important for many species that move between habitat types.

CNL 933

A 61-acre Critical Natural Landscape featuring Aquatic Core Buffer and Wetland Core Buffer.

A variety of analyses were used to identify protective upland buffers around wetlands and rivers. One, the variable width buffers methodology, included the most intact areas around each wetland and river, by extending deeper into surrounding unfragmented habitats than into developed areas adjacent to each wetland. Other upland buffers were identified through the rare species habitat analysis. In this way, the conservation of wetland buffers will support the habitats and functionality of each wetland, and also include adjacent uplands that are important for many species that move between habitat types.

CNL 945

A 16-acre Critical Natural Landscape featuring Aquatic Core Buffer.

A variety of analyses were used to identify protective upland buffers around wetlands and rivers. One, the variable width buffers methodology, included the most intact areas around each wetland and river, by extending deeper into surrounding unfragmented habitats than into developed areas adjacent to each wetland. Other upland buffers were identified through the rare species habitat analysis. In this way, the conservation of wetland buffers will support the habitats and functionality of each wetland, and also include adjacent uplands that are important for many species that move between habitat types.

CNL 951

A 171-acre Critical Natural Landscape featuring Aquatic Core Buffer and Wetland Core Buffer.

A variety of analyses were used to identify protective upland buffers around wetlands and rivers. One, the variable width buffers methodology, included the most intact areas around each wetland and river, by extending deeper into surrounding unfragmented habitats than into developed areas adjacent to each wetland. Other upland buffers were identified through the rare species habitat analysis. In this way, the conservation of wetland buffers will support the habitats and functionality of each wetland, and also include adjacent uplands that are important for many species that move between habitat types.





CNL 952

A 203-acre Critical Natural Landscape featuring Aquatic Core Buffer and Wetland Core Buffer.

A variety of analyses were used to identify protective upland buffers around wetlands and rivers. One, the variable width buffers methodology, included the most intact areas around each wetland and river, by extending deeper into surrounding unfragmented habitats than into developed areas adjacent to each wetland. Other upland buffers were identified through the rare species habitat analysis. In this way, the conservation of wetland buffers will support the habitats and functionality of each wetland, and also include adjacent uplands that are important for many species that move between habitat types.

CNL 957

A 1,348-acre Critical Natural Landscape featuring Aquatic Core Buffer, Wetland Core Buffer and Landscape Block.

A variety of analyses were used to identify protective upland buffers around wetlands and rivers. One, the variable width buffers methodology, included the most intact areas around each wetland and river, by extending deeper into surrounding unfragmented habitats than into developed areas adjacent to each wetland. Other upland buffers were identified through the rare species habitat analysis. In this way, the conservation of wetland buffers will support the habitats and functionality of each wetland, and also include adjacent uplands that are important for many species that move between habitat types.

Landscape Blocks, the primary component of Critical Natural Landscapes, are large areas of intact predominately natural vegetation, consisting of contiguous forests, wetlands, rivers, lakes, and ponds, as well as coastal habitats such as barrier beaches and salt marshes. Pastures and power-line rights-of-way, which are less intensively altered than most developed areas, were also included since they provide habitat and connectivity for many species. Collectively, these natural cover types total 3.6 million acres across the state. An Ecological Integrity assessment was used to identify the most intact and least fragmented areas. These large Landscape Blocks are most likely to maintain dynamic ecological processes such as buffering, connectivity, natural disturbance, and hydrological regimes, all of which help to support wide-ranging wildlife species and many other elements of biodiversity.

In order to identify critical Landscape Blocks in each ecoregion, different Ecological Integrity thresholds were used to select the largest intact landscape patches in each ecoregion while avoiding altered habitat as much as possible. This ecoregional representation accomplishes a key goal of *BioMap2* to protect the ecological stages that support a broad suite of biodiversity in the context of climate change. Blocks were defined by major roads, and minimum size thresholds differed among ecoregions to ensure that *BioMap2* includes the best of the best in each ecoregion.

CNL 970

An 8,426-acre Critical Natural Landscape featuring Aquatic Core Buffer, Wetland Core Buffer and Landscape Block.

A variety of analyses were used to identify protective upland buffers around wetlands and rivers. One, the variable width buffers methodology, included the most intact areas around each wetland and river, by extending deeper into surrounding unfragmented habitats than into developed areas adjacent to each





wetland. Other upland buffers were identified through the rare species habitat analysis. In this way, the conservation of wetland buffers will support the habitats and functionality of each wetland, and also include adjacent uplands that are important for many species that move between habitat types.

Landscape Blocks, the primary component of Critical Natural Landscapes, are large areas of intact predominately natural vegetation, consisting of contiguous forests, wetlands, rivers, lakes, and ponds, as well as coastal habitats such as barrier beaches and salt marshes. Pastures and power-line rights-of-way, which are less intensively altered than most developed areas, were also included since they provide habitat and connectivity for many species. Collectively, these natural cover types total 3.6 million acres across the state. An Ecological Integrity assessment was used to identify the most intact and least fragmented areas. These large Landscape Blocks are most likely to maintain dynamic ecological processes such as buffering, connectivity, natural disturbance, and hydrological regimes, all of which help to support wide-ranging wildlife species and many other elements of biodiversity.

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At 8,079 acres, this is one of a few Landscape Blocks, and the fourth largest Block, in the Berkshire Valleys ecoregion, especially important in an otherwise more fragmented ecoregion. This Block is partially protected.

CNL 997

An 829-acre Critical Natural Landscape featuring Aquatic Core Buffer and Wetland Core Buffer.

A variety of analyses were used to identify protective upland buffers around wetlands and rivers. One, the variable width buffers methodology, included the most intact areas around each wetland and river, by extending deeper into surrounding unfragmented habitats than into developed areas adjacent to each wetland. Other upland buffers were identified through the rare species habitat analysis. In this way, the conservation of wetland buffers will support the habitats and functionality of each wetland, and also include adjacent uplands that are important for many species that move between habitat types.

CNL 1332

An 84,791-acre Critical Natural Landscape featuring Aquatic Core Buffer, Wetland Core Buffer and Landscape Block.

A variety of analyses were used to identify protective upland buffers around wetlands and rivers. One, the variable width buffers methodology, included the most intact areas around each wetland and river, by extending deeper into surrounding unfragmented habitats than into developed areas adjacent to each wetland. Other upland buffers were identified through the rare species habitat analysis. In this way, the conservation of wetland buffers will support the habitats and functionality of each wetland, and also include adjacent uplands that are important for many species that move between habitat types.





Landscape Blocks, the primary component of Critical Natural Landscapes, are large areas of intact predominately natural vegetation, consisting of contiguous forests, wetlands, rivers, lakes, and ponds, as well as coastal habitats such as barrier beaches and salt marshes. Pastures and power-line rights-of-way, which are less intensively altered than most developed areas, were also included since they provide habitat and connectivity for many species. Collectively, these natural cover types total 3.6 million acres across the state. An Ecological Integrity assessment was used to identify the most intact and least fragmented areas. These large Landscape Blocks are most likely to maintain dynamic ecological processes such as buffering, connectivity, natural disturbance, and hydrological regimes, all of which help to support wide-ranging wildlife species and many other elements of biodiversity.

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Natural Heritage &
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To learn more about the Natural Heritage & Endangered Species Program and the Commonwealth's rare species, visit our web site at www.mass.gov/nhesp.