



**EVERSOURCE ENERGY, EASTERN & WESTERN, MA**

**2019 YEARLY OPERATIONAL PLAN**

**NATURAL HERITAGE ENDANGERED SPECIES PROGRAM**

**MECHANICAL AND INTEGRATED VEGETATION MANAGEMENT  
PROGRAMS**



Submitted by:  
Eversource

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## SUMMARY

In compliance with the Massachusetts Department of Agricultural Resources' Rights-of-Way Regulations (333 CMR 11.00), this Yearly Operational Plan (YOP) informs municipalities of Eversource Energy, Eastern & Western MA's intent to utilize an integrated vegetation management plan that includes the use of herbicides on electric rights-of-way (ROW) in 2019. Our Integrated Vegetation Management program is outlined in our five-year Vegetation Management Plan. ROWs treated in 2018 are included in this YOP in case they need a "touch-up" spot treatment.

This YOP identifies target vegetation; the affected rights-of-way and towns; the herbicides, rates and methods of application; alternative control methods; the individual responsible for supervising the YOP, and the qualified contractors that will perform the application. It explains how sensitive areas; buffer zones and sites where herbicides are either restricted or not permitted are identified, appropriately marked, treated and protected. It addresses procedures for the mixing, handling and loading of herbicide concentrates. Finally, it includes Herbicide Fact Sheets and Labels, a list of emergency resources and telephone numbers, and maps marked with known Sensitive Areas.

The YOP process provides for a forty-five day public review and comment period, in conjunction with the twenty-one day municipal rights-of-way notification period. These review periods give communities an opportunity to provide information that will help identify additional areas that may require specific precautions or protection. Finally, notice will be published in general circulation newspapers at least 48 hours before the scheduled application.

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## I. INTRODUCTION

In compliance with Commonwealth of Massachusetts' Rights-of-Way Vegetation Management Regulations (333 CMR 11.00) Eversource Energy, Eastern & Western MA's Yearly Operational Plan (YOP) details our vegetation management program for 2019. This YOP is consistent with the terms and procedures set forth in the Eversource Energy, Vegetation Management Plan's (VMP's) per 333 CMR 11.05; with the Massachusetts Pesticide Control Act (Chapter 132B); with all pertinent clauses in Chapter 85 of the Acts of 2000; with the Massachusetts Endangered Species Act (MESA; MGL c. 131 A) and regulations (321 CMR 10.00), and with all Federal and State acts and regulations that apply to right-of-way vegetation management.

Eversource delivers electricity to 1.3 million customers in 136 municipalities. Electricity is transmitted over hundreds of miles of distribution and transmission rights-of-way (ROW) throughout the western, eastern, southeastern, and cape and islands regions of Massachusetts. To ensure safe reliable electric service, Eversource must keep these ROWs free from hazards and encroachments. In this effort, the vegetation on the ROW corridors must be maintained at an early stage of plant succession (herbaceous plants and shrubs).

Using the Integrated Vegetation Management Program (IVM) described in the VMP's, Eversource's program is based on a 4-year selective herbicide application and where appropriate mechanical treatment cycle. This program allows for the safe delivery of reliable electric service and supports a healthier more diverse habitat for wildlife that depends upon early successional landscapes (See VMP's for further description of Eversource's IVM program). The VMP's can be viewed at <https://www.eversource.com/content/ema-c/about/about-us/doing-business-with-us/municipal-officials/transmission-vegetation-management>.

## II. CHAPTER 132B AND 333 CMR 11.00

The purpose of this chapter is to conform the laws of the commonwealth to the Federal Insecticide, Fungicide, and Rodenticide Act, Public Law 92-516, as amended, and the regulations promulgated there under and to establish a regulatory process in the commonwealth. The exclusive authority in regulating the labeling, distribution, sale, storage, transportation, use and application, and disposal of pesticides in the commonwealth shall be determined by this chapter. (*MGL 132B, Section 1*)

Chapter 132b (Massachusetts Pesticide Control Act) was created to ensure a clear and uniform set of standards for the entire Commonwealth of Massachusetts ***in order to protect the public from the negative impacts that arise from fragmented, decentralized, sets of standards***. In this effort, the Commonwealth, through the Department of Agricultural Resources (DAR) retains the sole right to regulate the use of pesticides, including herbicides, throughout Massachusetts. DAR takes this responsibility extremely seriously and the regulations promulgated under Chapter 132b are stricter than Federal standards.

The purpose of 333 CMR 11.00 is to establish a statewide and uniform regulatory process which will minimize the uses of, and potential impacts from herbicides in right of way on human health and the environment while allowing for the benefits to public safety provided by the selective use of herbicides (*333 CMR 11.01*).

333 CMR 11.00 is the most comprehensive rights of way regulation in New England. It requires an Integrated Pest Management (in this case IVM) approach to right of way vegetation management; the establishment of standards and procedures to prevent unreasonable risks to humans or the environment, and a multi-layered system of public and municipal notification that requests input about environmentally and culturally sensitive areas. All of this is outlined in the Eversource VMPs, annual YOPs, *The Environmental Monitor* Notice, 21-day notification, Public Water Supplier notification and 48- hour newspaper notice which serve as guides for the public, state and municipal officials, vegetation management contractors and Eversource personnel.

To ensure compliance with Chapter 132b and 333 CMR 11.00, DAR performs routine inspections of rights-of-way treatment crews, retains chemists, and perform further tests before approving a limited list of herbicides approved for use in Sensitive Areas (pursuant to 333 CMR 11.04 (1)(d)).

As detailed in the VMP's and YOP, Eversource Energy, Eastern & Western MA's IVM program strictly adheres to all the requirements of Chapter 132b and 333 CMR 11.00. Eversource only retains herbicide application treatment contractors that hold Massachusetts' certifications and licenses to apply pesticides, which require ongoing training to maintain. All Sensitive Areas (see section V) are treated appropriately using either mechanical treatment methods or Commonwealth of Massachusetts recommended herbicides for use in Sensitive Areas. In fact, Eversource only uses these recommended herbicides on the entire length and cleared width of its ROW corridors.

Beyond the requirements of 333 CMR 11.00 and in compliance with Chapter 216 of the Acts of 2012, Eversource also notifies "abutters" (houses and businesses that abut the rights-of-way being treated in that year) within view of the ROWs before treatments begin. Treatment contractors are required to leave door hangers or talk personally with abutters which allow the contractor to answer site specific questions, identify private wells and help explain the program.

### III. LOCATION OF INTENDED TREATMENTS

In 2019 Eversource plans on completing herbicide applications on 45 transmission and distribution line ROWs as listed in Table I. Table II includes the 32 ROWs treated in 2018 which might need "touch-up" spot treatments. At least one of the ROWs scheduled for a 2019 IVM treatment pass through the 66 municipalities in Table III. Table IV is a list of the 41 towns with at least one 2018 ROW that might need a "touch-up" spot treatment. Please note that some of these towns appear on both lists and the total number of municipalities is 94 (see Appendix I. Maps). Table V is a list of mechanical only rights-of-way and Table VI is a list of ROWs that might need on demand/emergency mechanical only treatments.

*a. Integrated Vegetation Management Herbicide Treatments:*

**Table I. 2019 Rights-of-Way:**

<b>Eastern MA (EMA) Rights-of-Way</b>		
<b>ROW</b>	<b>Segment Name</b>	<b>Treatment Method</b>
<b>Electric Transmission Rights of Way</b>		
EMA-4 A,E,W	Sta. 447 Walpole - Sta. 65 Medway - Grid tie, Sta. 146 Walpole - Sta. 150 Weymouth	IVM, Side Prune & Tree Removals
EMA-8-2	Sta 342 Sudbury - Sta 282 Waltham	IVM, Side Prune & Tree Removals
EMA-13,13A	Sta 447 Medway - Uxbridge / RI State Line	IVM, Side Prune & Tree Removals
EMA-142	Crystal Spring Tap	IVM, Side Prune & Tree Removals
EMA-143	Montaup Tap, Ind. Park Sub (New Bedford) to High Hill Sub (Dartmouth)	IVM, Side Prune & Tree Removals
EMA-145	Tremont to Canal	IVM, Side Prune & Tree Removals
EMA-18	Sta 488 Chelsea - Grid Revere Line	IVM, Side Prune & Tree Removals
EMA-180	EHV - Canal to Pilgrim Tap	IVM
EMA-244	Horse Pond Tap - Manomet	IVM, Side Prune & Tree Removals
EMA-340	Bourne - Falmouth Tap	IVM, Side Prune & Tree Removals
EMA-341	Falmouth Tap	IVM
EMA-344	Barnstable Switching Station - Hyannis Junction	IVM, Side Prune & Tree Removals
EMA-345	Falmouth Tap - Shoot Flying Hill Rd.	IVM, Side Prune & Tree Removals
EMA-347	Harwich Tap (Dennis) - West Harwich Sub	IVM
EMA-349	Orleans - Wellfleet	IVM, Side Prune & Tree Removals
<b>ROW</b>	<b>Segment Name</b>	<b>Treatment Method</b>
<b>Electric Distribution Rights of Way</b>		
EMA-201	R/W241 - Kingston Sub also includes spur to S.Dux Sub	IVM
EMA-210	Wareham Sub - East Wareham Tap	IVM
EMA-212	Buzzards Bay Sub - Onset Sub	IVM
EMA-215	Marshfield - Brant Rock	IVM
EMA-301	Wellfleet Bulk - Truro	IVM
EMA-302	Hyannis - Harwich	IVM
EMA-303	Harwich - Goose Pond	IVM
EMA-304	Falmouth - Woods Hole	IVM
EMA-307	Otis Sub #515 - R/W 342	IVM
EMA-310	Otis Sub - Hatchville	IVM
EMA-311	North Falmouth Tap	IVM
EMA-313	Sandwich Tap	IVM
EMA-314	Hatchville Sub - Brick Kiln Rd	IVM

<b>Western MA (WMA) Rights-of-Way</b>		
<b>ROW</b>	<b>Segment Name</b>	<b>Treatment Method</b>
<b>Electric Transmission Rights of Way</b>		
WMA-WT-11	Ludlow T/L to Shutesbury, Leverett T/L	IVM, Side Prune & Tree Removals
WMA-WT-12	Cumberland to Montague to Amherst to Chicopee T/L	IVM, Side Prune & Tree Removals
WMA-WT-13	Shutesbury T/L to Northfield Substation to NH State Line	IVM, Side Prune & Tree Removals
<b>ROW</b>	<b>Segment Name</b>	<b>Treatment Method</b>
<b>Electric Distribution Rights of Way</b>		
WMA-D01	Podick - UMASS	IVM, Side Prune & Tree Removals
WMA-D05	Midway - Hadley	IVM, Side Prune & Tree Removals
WMA-D10	Amherst - Mill Street	IVM, Side Prune & Tree Removals
WMA-D11	Lanes Quarry - Bay Road	IVM, Side Prune & Tree Removals
WMA-D13	Cumber - Route 5	IVM, Side Prune & Tree Removals
WMA-D14	Cumber - S. Deerfield	IVM, Side Prune & Tree Removals
WMA-D15	Warner Brothers Tap	IVM, Side Prune & Tree Removals
WMA-D18	Montague - Mount Herman	IVM, Side Prune & Tree Removals
WMA-D19	Montague - Franklin	IVM, Side Prune & Tree Removals
WMA-D20	Montague - Millers Falls	IVM, Side Prune & Tree Removals
WMA-D21	Montague - Overland	IVM, Side Prune & Tree Removals
WMA-D22	Lake Pleasant Tap	IVM, Side Prune & Tree Removals
WMA-D23	Montague - Mountain Road	IVM, Side Prune & Tree Removals
WMA-D71	Podick - Montague Road	IVM, Side Prune & Tree Removals

**/Table II. List of Potential Touch-up Rights-of-Way from 2018 YOP:**

<b>Eastern MA (EMA) ROW's</b>	
<b>ROW</b>	<b>Line Name</b>
<b>Electric Transmission Rights of Way</b>	
EMA-9	R/W 5 - Sta.375 Dragon Court
EMA-10	Sta. 447 Walpole - Sta. 148 Needham
EMA-14	ROW 9 - US I93 Reading T/L
EMA-15	Pilgrim - Snake Hill
EMA-141	Wing Lane – Arsene
EMA-180	EHV- Canal to Pilgrim Tap
EMA-241	Brook St. - West Pond
EMA-243	Kingston – Marshfield
EMA-280	Pilgrim Tap-Bridgewater
<b>ROW</b>	<b>Line Name</b>
<b>Electric Distribution Rights of Way</b>	
EMA-2	Medway to Hopkinton
EMA-206	R/W 205 - R/W 208, Marshfield
EMA-207	Duxbury-Brant Rock
EMA-208	Marshfield-Seaview
EMA-209	East Marion Sub - Tempest Knob Sub
EMA-211	Horse Pond Tap - Buzzards Bay Sub
EMA-213	Newfield-Cordage Tap
EMA-214	N Plymouth Sub - Cordage Tap

<b>Western MA (WMA) ROW's</b>	
<b>ROW</b>	<b>Line Name</b>
<b>Electric Transmission Rights of Way</b>	
WMA-WT-01	Berkshire – Ashfield
WMA-WT-02	Berkshire - Dorren, NY
WMA-WT-03	Northfield - Ashfield
<b>ROW</b>	<b>Line Name</b>
<b>Electric Distribution Rights of Way</b>	
WMA-D12	Cumber-Gardnerfls
WMA-D16	Cumber-Greenfield
WMA-D24	Deerfield-Conway
WMA-D25	Plainfield – Cummington – Chesterfield
WMA-D28	Partridge-Route 7
WMA-D30	Doreen-Dalton Ave
WMA-D35	Doreen-Dalton Sub
WMA-D40	Crane Tap-Dalton Sub
WMA-D42	Clark Rd-North St.
WMA-D43	Berkshire -Frank Schnops
WMA-D65	Partridge-Dalton Ave
WMA-D68	Greenfield-Main St.

**Table III: List of Affected 2019 IVM (herbicide) Municipalities:**

Eastern MA (EMA) Municipalities		
Acushnet#	Harwich	Randolph
Avon	Holbrook	Sandwich
Barnstable	Hopkinton#	Sharon
Bellingham	Kingston#	Stoughton
Blackstone	Mashpee	Sudbury
Bourne#	Marshfield	Truro
Braintree	Mattapoisett	Uxbridge
Canton	Medway#	Walpole#
Chatham	Mendon	Waltham
Chelsea	Millis	Wareham#
Dartmouth	Millville	Wayland
Dennis	New Bedford	Wellfleet
Duxbury	Norfolk	Weston
Eastham	Orleans	Weymouth
Falmouth	Plymouth#	Yarmouth
Franklin		

Western MA (WMA) Municipalities		
Amherst	Granby	Northfield#
Belchertown	Greenfield#	Pelham
Chicopee	Hadley	Shutesbury
Deerfield#	Leverett	South Hadley
Easthampton	Ludlow	Sunderland
Erving#	Montague#	Warwick
Gill	Wendell	

#also has a right(s)-of-way scheduled for a “touch-up” treatment

**Table IV: List of Affected 2018 IVM (herbicide) Municipalities that have potential “touch up” treatment:**

Eastern MA (EMA) Municipalities		
Acushnet	Hopkinton	Plymouth
Bridgewater	Kingston	Plympton
Burlington	Marion	Walpole
Carver	Marshfield	Wareham
Dover	Medfield	Westwood
Duxbury	Medway	Wilmington
Fairhaven	Middleborough	Woburn
Holliston		

Western MA (WMA) Municipalities		
Ashfield	Erving	Northfield
Cheshire	Greenfield	Pittsfield
Chesterfield	Hancock	Plainfield
Conway	Hinsdale	Peru
Cummington	Lanesborough	Shelburne
Dalton	Montague	Windsor
Deerfield		

*b. Mechanical Only Treatments*

**Table V. 2019 Mechanical Only Treatment Rights-of-Way:**

Eastern MA (EMA) Rights-of-Way		
ROW	Line Name	Treatment Method
<b>Electric Transmission Rights of Way</b>		
EMA-346E	Harwich - Orleans	Hand Cut & Mow Floor, Side Prune, Tree Removals
EMA-346W	Barnstable Switching Station - Harwich Tap	Hand Cut & Mow Floor, Side Prune, Tree Removals



<b>ROW</b>	<b>Line Name</b>	<b>Treatment Method</b>
<b>Electric Distribution Rights of Way</b>		
EMA-WW	New Bedford Water Works R/W -Freetown	Hand Cut & Mow Floor, Side Prune, Tree Removals
EMA-146	Fairhaven to Marion	Hand Cut & Mow Floor, Side Prune, Tree Removals
EMA-202	West Pond- Manomet 4kV sub	Hand Cut & Mow Floor, Side Prune, Tree Removals
EMA-203	West Pond- East Carver Sub	Hand Cut & Mow Floor, Side Prune, Tree Removals
EMA-204	S Ply Sub - R/W 202	Hand Cut & Mow Floor, Side Prune, Tree Removals
EMA-205	Dux Sub - Pine Street, Marshfield	Hand Cut & Mow Floor, Side Prune, Tree Removals
EMA-309	Osterville Tap	Hand Cut & Mow Floor, Side Prune, Tree Removals
EMA-312	Barnstable Tap	Hand Cut & Mow Floor, Side Prune, Tree Removals

<b>Western MA (WMA) Rights-of-Way</b>		
<b>ROW</b>	<b>Line Name</b>	<b>Treatment Method</b>
<b>Electric Transmission Rights of Way</b>		
WMA-WT-32A	Cobble Mtn.	Hand Cut & Mow Floor, Side Prune, Tree Removals
<b>Electric Distribution Rights of Way</b>		
none	None	n/a

*c. On Demand / Emergency Mechanical Only Treatments*

**Table VI. 2019 On Demand / Emergency Mechanical Only Rights-of-Way:**

<b>Eastern MA Transmission Rights-of-Way (EMA)</b>	
<b>ROW</b>	<b>ROW Name</b>
EMA-3	455 Framingham to Grid Southboro to Station 110 W. Roxbury
EMA-4A,E,W	Station 447 Walpole - Station 65 Medway - Grid tie, Station 146 Walpole - Station 150 Weymouth
EMA-4B	Canton Tap
EMA-5	Station 211 - Woburn - Grid Billerica
EMA-6-6c	Station 478 Holbrook - Station 451 Whitman
EMA-7	Station 65 Medway - Station 240 Framingham
EMA-8-1	Station 240 Framingham - Station 342 Sudbury
EMA-8-2	Station 342 Sudbury - Station 282 Waltham
EMA-8-3	Station 211 - Woburn - Station 282 Waltham
EMA-9	R/W 5 - Station 375 Dragon Court
EMA-10	Station 447 Walpole - Station 148 Needham
EMA-13-13A	Station 447 Medway - Uxbridge RI line
EMA-14	R/W 9 - I-93 Reading T/L
EMA-15	Pilgrim - Snake Hill
EMA-16	Tap to Whitman
EMA-18	Station 488 Chelsea - Grid Revere Line
EMA-140	Acushnet to Tremont
EMA-141	Wing Lane – Arsene
EMA-142	Crystal Spring Tap
EMA-143	Montaup Tap, Industrial Park Sub (New Bedford) to High Hill Sub (Dartmouth)
EMA-144	High Hill to Fisher Road
EMA-145	Tremont to Canal
EMA-180	EHV- Canal - Pilgrim Tap
EMA-240	Tremont – Kingston
EMA-241	Brook St. - West Pond
EMA-242	Kingston – Whitman
EMA-243	Kingston – Marshfield
EMA-244	Horse Pond Tap – Manomet
EMA-280	Pilgrim Tap – Bridgewater
EMA-340	Bourne - Falmouth Tap
EMA-341	Falmouth Tap
EMA-342E	Quaker Meeting House Rd. - Shoot Flying Hill Rd.
EMA-342W	Bourne - Quaker Meeting House Rd.
EMA-343	Shoot Flying Hill Rd. - Barnstable Switching Station
EMA-344	Barnstable Switching Station - Hyannis Junction
EMA-345	Falmouth Tap - Shoot Flying Hill Rd.
EMA-346E	Harwich – Orleans
EMA-346W	Barnstable Switching Station - Harwich Tap
EMA-347	Harwich Tap (Dennis) - West Harwich Substation
EMA-349	Orleans – Wellfleet
EMA-350	Bourne SW - Canal Crossing
EMA-380	EHV Canal – Bourne
EMA-381	345 Cross Over

<b>Eastern MA Distribution Rights-of-Way (EMA)</b>	
<b>ROW</b>	<b>ROW Name</b>
EMA-NBBP	2-103-103 & 2-101-101
EMA-WW	New Bedford Water Works R/W – Freetown
EMA-1	Southborough to Hopkinton
EMA-2	Medway to Hopkinton
EMA-101	Fair Haven - Long Road
EMA-146	Fairhaven to Marion
EMA-201	R/W 241 - Kingston Sub also includes spur to South Dux Sub
EMA-202	West Pond - Manomet 4kV sub
EMA-203	West Pond - East Carver Sub
EMA-204	South Plymouth Sub - R/W 202
EMA-205	Duxbury Sub - Pine Street, Marshfield
EMA-206	R/W 205 - R/W 208, Marshfield
EMA-207	Duxbury - Brant Rock
EMA-208	Marshfield – Seaview
EMA-209	East Marion Sub - Tempest Knob Sub
EMA-210	Wareham Sub - East Wareham Tap
EMA-211	Horse Pond Tap - Buzzards Bay Sub
EMA-212	Buzzards Bay Sub - Tempest Knob Sub (Minot St)
EMA-213	Newfield - Cordage Tap
EMA-214	North Plymouth Sub - Cordage Tap
EMA-215	Marshfield - Brant Rock
EMA-301	Wellfleet Bulk – Truro
EMA-302	Hyannis - Harwich
EMA-303	Harwich - Goose Pond
EMA-304	Falmouth - Woods Hole
EMA-305	West Chop - Vineyard Haven
EMA-306	Vineyard Haven - Edgartown <i>forest tap</i>
EMA-307	Otis Sub #515 - R/W 342
EMA-309	Barnstable Tap
EMA-310	Otis Sub - Hatchville
EMA-311	North Falmouth Tap
EMA-312	Osterville Tap
EMA-313	Sandwich Tap
EMA-314	Hatchville Sub – Brick Kiln Rd
EMA-319	Goose Pond – Orleans

<b>Western MA Transmission Rights-of-Way (WMA)</b>	
<b>ROW</b>	<b>ROW Name</b>
WMA-WT-01	Berkshire – Ashfield
WMA-WT-02	Doreen - Berkshire; Berkshire - New York; NEPCO - Doreen; Berkshire - New York
WMA-WT-03	Northfield – Ashfield
WMA-WT-11	Ludlow T/L to Shutesbury/Leverett T/L
WMA-WT-12	Cumberland-Montague-Amherst-Chicopee T.L.
WMA-WT-13	New Hampshire-Northfield-Shutesbury Town Line
WMA-WT-21	Midway-Mt. Tom-Fairmont-Holyoke-CT River
WMA-WT-22	CT River-Agawam-W. Springfield Station-Elm
WMA-WT-23	East Springfield - Orchard – Ludlow
WMA-WT-24	MA State Line - Agawam - Franconia and Ludlow T.L - CT
WMA-WT-31	Oswald Tap, Pleasant Tap, Doreen - GE & Silver Lake, Doreen - Woodland
WMA-WT-32	Midway S/S to - Gunn - Buck Pond - Pochassic, Elm - Cobble Mtn.
WMA-WT-32A	Cobble Mtn.
WMA-WT-33	Pleasant Junction - Blandford - Southwick - CT State Line

<b>Western MA Distribution Rights-of-Way (WMA)</b>	
<b>ROW</b>	<b>ROW Name</b>
WMA-D01	Podick - UMASS
WMA-D02	Midway - Easthampton
WMA-D04	Midway - S. Amherst
WMA-D05	Midway - Hadley
WMA-D06	Strathmore - West Rd.
WMA-D07	Huntington - Chesterfield
WMA-D09	Huntington - Route 20
WMA-D10	Amherst - Mill St.
WMA-D11	Lanes Quarry - Bay Rd.
WMA-D12	Cumber.- Gardnerfls
WMA-D13	Cumber.- Route 5
WMA-D14	Cumber.- S. Deerfield
WMA-D15	Warner Brothers Tap
WMA-D16	Cumber. - Greenfield
WMA-D18	Montague - Mount Herman
WMA-D19	Montague - Franklin
WMA-D20	Montague - Millers Falls
WMA-D21	Montague - Overland
WMA-D22	Lake Pleasant Tap
WMA-D23	Montague - Mtn. Road
WMA-D24	Deerfield - Conway
WMA-D25	Plainfield - Cummington - Chesterfield
WMA-D27	Blanford - Huntington
WMA-D28	Partridge - Route 7
WMA-D29	Pleasant - Donovan
WMA-D30	Doreen - Dalton Ave.
WMA-D31	Donovan - Woodland
WMA-D32	Woodland - Lenox
WMA-D33	Doreen - Dorchester
WMA-D34	Blanford - E. Otis
WMA-D35	Doreen - Dalton Sub
WMA-D37	Oswald - Route 20
WMA-D38	Oswald - E.New Lenox
WMA-D39	Pomeroy - E. New Lenox
WMA-D40	Crane tap - Dalton Sub
WMA-D41	Pleasant - Fairview
WMA-D42	Clark Rd - North St.
WMA-D43	Berkshire - Frank Schnops
WMA-D44	Eastern States
WMA-D45	Piper - CT River
WMA-D45A	CT River - Chicopee
WMA-D46	Dwight Station Loop
WMA-D47	Bear Hole & Tap
WMA-D48	Paulding Tap
WMA-D49	Chicopee - Facemate
WMA-D50	Red Bridge
WMA-D51	Franconia - CL&P
WMA-D52	Agawam - Suffield St.
WMA-D54	Piper - Cayenne
WMA-D55	Southwick - Sodom
WMA-D56	Piper - Morgan
WMA-D58	Bondi's Island
WMA-D64	Silver S/S - Cooper
WMA-D65	Partridge - Dalton Av
WMA-D68	Greenfield - Main St.
WMA-D70	Gunn S/S - Plain Rd
WMA-D71	Poddick - Montague Rd.

## IV. IDENTIFICATION OF TARGET VEGETATION FOR HERBICIDE APPLICATIONS

Pursuant to the policy and intent set forth in the Eversource VMPs, all vegetation must be removed that obscures the ROW corridors and grows tall enough to interfere with the safe, efficient and legal operation of an electrical power line. In the wire zone, trees and brush are targeted, and native, low growing plant communities that have a mature height less than three feet are established. In the border zone, incompatible trees and brush are targeted, and the growth of native trees and shrubs that have a mature height less than 15 feet is encouraged.

The primary target is all trees species within the cleared width of the ROW; except in Priority Habitats that are under the purview of the Natural Heritage and Endangered Species Program of the Department of Fish and Game (NHESP), which will be treated on a case by case basis.

Examples of targets include, but are not limited to:

Alder	Cherry	Pine
Aspen	Hemlock	Maple
Beech	Hickory	Oak
Birch	Locust	Sassafras

There are more non-target vegetation species on an electric or gas ROW than targets. In fact, ROW's are one of the primary early successional plant communities remaining in New England. As a result, many plant and animal species use ROWs as their homes, feeding grounds or nurseries. Certain plant species, therefore, are generally encouraged on the ROW through the use of an IVM program (excluding invasive plant species):

- Most herbaceous growth is acceptable and encouraged
- Shrubs that mature less than 15 feet in height are only targets where due to their location or attributes they interfere with the function of the ROW.

Certain categories of non-tree species are targets under some circumstances, because of their location and/or their nature. Dense woody vegetation, shrubs and vines are targets where they are capable of interfering with the inspection and maintenance of the poles, wires, and along access roads, paths and gates which need to be kept clear, especially for emergencies.

Eversource intends to control plant species including invasive, poisonous plants and vines at their facilities. Invasive plant species have become an increasing concern throughout Massachusetts in areas that include ROW corridors where they can spread rapidly and move into the adjacent landscape. Eversource plans to use herbicides to spot treat poisonous plants at sites under its ROWs identified as having a high risk of posing a health hazard. This vegetation, likewise, poses a risk to the safety and health of all individuals working on or traversing a ROW and it can impede a rapid response in an emergency.

Examples of non-tree species generally considered targets, include, but are not limited to:

Autumn Olive	Hawthorne	Purple Loosestrife
Blackberry	Honeysuckle	Sumac (Staghorn and
Buckthorn	Japanese Knot Weed	Poison)
Common Reed	Multiflora Rose	Virginia Creeper
Grapevines	Oriental Bittersweet	Willow
Greenbriar	Poison Ivy	

## V. DEFINITION, IDENTIFICATION AND TREATMENT OF SENSITIVE AREAS

Sensitive Areas are those areas within a ROW in which public health, environmental concerns or agricultural interests warrant special protection to minimize the risk of unreasonable adverse effects.

The map(s) in Appendix I are a resource and a tool for both the public and the vegetation management crews. They contain the data necessary to identify, mark and treat Sensitive Areas appropriately.

The map(s) include known Sensitive Areas available at the printing of this YOP. Some Sensitive Areas are included in the base USGS topographic maps. The most current data available through Mass GIS such as public water suppliers, certified vernal pools, etc. and any data that Eversource has collected to date on areas such as private wells are added on top of the USGS data. At the time of treatment, any additional Sensitive Areas collected will be added to the maps utilized by our vegetation management contractors. Please note that Zone II's and limited spray areas are not mapped since Eversource Energy, will only use herbicides approved for use within this type of Sensitive Area in their 2019 IVM program.

There is one type of Sensitive Area not included on the maps that we are not authorized to publish: the locations of the Priority Habitats of state listed species as regulated by the Natural Heritage and Endangered Species Program (NHESP) of the Division of Fisheries & Wildlife. A map layer of Priority Habitats is available to the general public at <https://www.mass.gov/orgs/massgis-bureau-of-geographic-information>, but it is neither specific to areas of concern for herbicide applications nor does it include data on the individual species since the exact location and details of their habitat is protected. Please be assured that we follow all necessary precautions to stay in compliance with 321 CMR 10.00 and this YOP was approved by NHESP.

Prior to any herbicide application, Sensitive Areas will be identified and when necessary marked in the field by an experienced vegetation management treatment crew point person, by individuals trained in the identification of Sensitive Areas that require the use of GIS (geographic information systems) and GPS equipment, and/or by a NHESP approved botanist trained in the delineation of state-listed species.

Two simple descriptions guide the complex identification of the Sensitive Areas listed in 333 CMR 11.02: *Readily identifiable in the field* and *Not readily identifiable in the field*:

- A. *Readily identifiable in the field areas* will be treated and marked according to all applicable restrictions listed in 333 CMR 11.00 and the Eversource Energy, 5-year VMP's.
- B. *Not readily identifiable in the field areas* are identified by the use of the data marked on our maps and additional data collected in the YOP and notification processes before the time of treatment.

Eversource and contractor personnel assigned the task of identifying Sensitive Areas in the field will use the following sources and methods:

- A. Massachusetts Department of Environmental Protection (DEP) water supply maps/GIS mapping layers available through Mass GIS
- B. Massachusetts Department of Agricultural Resources (DAR) records of identified private wells along the ROW

- C. Correspondence and input from municipalities within the consecutive forty-five day YOP and twenty-one day municipal ROW notification review and comment periods and the 48 hour newspaper notification
- D. Correspondence and input from Eversource's abutter notification procedure
- E. A point person who precedes the treatment crew verifying identified Sensitive Areas and any additional areas that may require special precautions.

The following section details some of the Sensitive Areas that require special attention, particularly those that are classified as either no spray or *not readily identifiable in the field*:

*A. Limited Spray Areas:*

Per 333 CMR 11.02, the following need to be identified in the field, require the use of herbicides on the *DAR Rights-of-Way Sensitive Area Materials List*, and time restrictions between herbicide applications (see Appendix II, Sensitive Area Table). Please note that for 2019 IVM herbicide applications, Eversource is only using Sensitive Area approved herbicides on our entire ROW system:

- (a) any Zone II or IWPA
- (b) a distance of between 100 feet and 400 feet of any Class A Surface Water Source
- (c) a distance of between 10 and 200 feet of any tributary or associated surface water body where the tributary or associated surface water body runs outside the Zone A for the Class A surface water source
- (d) a lateral distance of between 100 and 200 feet for 400 feet upstream, on both sides of the river, of a Class B Drinking Water Intake
- (e) a distance of between 50 and 100 feet of any identified Private Well
- (f) a distance of between 10 and 100 feet of any Wetlands or Water Over Wetlands
- (g) a distance of between 10 feet from the mean annual high water line of any river and the outer boundary of the Riverfront Area
- (h) a distance of between ten feet from any Certified Vernal Pool and the outer boundary of any Certified Vernal Pool Habitat
- (i) a distance of 100 feet of any Agricultural or Inhabited Area.

Please Note that "(f)" is modified by the DAR (formerly Department of Food and Agriculture) *Decision*, dated October 12, 1995, concerning the wetland impact study conducted pursuant to 333 CMR 11.04(4)(c)(2). According to the *Decision*, Eversource may use herbicides within wetlands except on or within 10 feet of standing or flowing water (item "g" in the *no-spray areas* below was removed from the no spray list for utilities because it does not apply for the same reason).

*B. No-Spray Areas:*

Again, quoting from 333 CMR 11.02 the following no-spray areas need to be identified:

No-Spray Area, any area that is both within a Right-of-Way and within:

- (a) any Zone I
- (b) 100 feet of any Class A Surface Water Source
- (c) 100 feet of any tributary or associated surface water body where the

- tributary or associated surface water body runs within 400 feet of a Class A surface water source
- (d) 10 feet of any tributary or associated surface water body where the tributary or associated surface water body is at a distance greater than 400 feet from a Class A surface water source
- (e) a lateral distance of 100 feet for 400 feet upstream, on both sides of the river, of a Class B Drinking Water Intake
- (f) 50 feet of any identified Private Well [within 100 feet of the ROW]
- ...
- (h) 10 feet of the mean annual high-water line of any river
- (i) 10 feet of any Certified Vernal Pool.

*C. Identification and Treatment of Private Drinking Water Supplies*

No herbicide treatments will take place within fifty feet of any identified private wells located within one hundred (100) feet of a ROW. Eversource updates its private well records based on available data.

Municipalities should assist in the identification process and the DAR will be consulted again prior to the treatment in an attempt to keep the private drinking water supply information up-to-date.

Identified private drinking supplies within one hundred (100) feet of a ROW will be permanently recorded on appropriate maps.

*D. State-Listed Species Habitat*

Eversource recognizes the importance of the Massachusetts Endangered Species Act, M.G.L.C. 131 A, and its significance to ROW vegetation management. Eversource will comply with all applicable portions of this Act and the regulations promulgated thereunder. Eversource will also follow the rules and prohibitions directed at human activities which Take Species or alter their Significant Habitat (as of this printing there are no designated Significant Habitat in Massachusetts).

321 CMR 10.14, Massachusetts Endangered Species Act Regulations, Part II Exemptions and 333 CMR 11.04(3)(a-c) exempts utility ROW vegetation management from the permit process under the following conditions:

- (12) The management of vegetation within existing utility rights-of-way provided that the management is carried out in accordance with a vegetation management plan approved in writing by the Division prior to the commencement of work for which a review fee shall be charged, the amount of which shall be determined by the commissioner of administration under the provisions of M.G.L. c.7, § 3B...

To comply with exemption 10.14(12), Eversource submits this YOP to the NHESP for review.

The NHESP has delineated areas as Priority Habitat based on the "Best Scientific Evidence Available" to protect State-listed species from a "take." Under the approval process, details about the Priority Habitat of state-listed species that might be affected by our activities and management recommendations are shared with Eversource under strict confidentiality agreements. Using this data and best management practices, Eversource and contract personnel will follow the appropriate vegetation management treatment methods within these sensitive areas taking all



practical means and measures to modify ROW vegetation management procedures to avoid damage to state-listed species and their habitat.

To identify Priority Habitats, Eversource personnel, NHESP approved review botanists and vegetation management crews must use proper identification procedures. Contractors are, therefore, required to train their personnel to recognize the location of Priority Habitats using one of the following tools: paper maps, GPS coordinates and/or GIS systems.

## **VI. PROPOSED HERBICIDE TREATMENT METHODS**

Under Eversource's IVM program, combined with mechanical "prep-cutting," mowing and side-trimming activities, herbicide applications will be applied on foot using selective low pressure foliage treatments with backpack sprayers and cut stump or basal treatments. Experienced, Massachusetts licensed applicators will perform the selective herbicide treatments under the direct on site supervision of a certified applicator as required by Chapter 132B.

Eversource's herbicide program is a selective program scheduled to sustain acceptable vegetation control at minimal application rates. Using backpack sprayers, small amounts of herbicide are applied directly to the leaves, stumps or bark of the target vegetation. The average per acre rate of herbicide mix for Eversource's foliar program is under 5 gallons per acre and the actual amount of applied active ingredient is in the pints per acre range.

Eversource also chooses herbicide formulations that are low in acute toxicity, do not bio-accumulate and, as applied, have a short half-life with low soil mobility (see VMP's, Bibliography). Above and beyond the review by the Federal EPA, these herbicides are all carefully reviewed jointly by DAR and the Massachusetts Department of Environmental Protection for use in "limited spray" sensitive areas (including Zone IIs). Eversource takes this one step further and only uses sensitive area approved herbicides on their entire right-of-way system.

### *A. Methods:*

Eversource and contract personnel will utilize the most appropriate technique for the vegetation species, height, density, site and mandated restrictions. These methods as described in detail in the Eversource 5-year VMP's are briefly reviewed below:

**Low Volume Foliage Techniques** utilize hand-operated pumps or motorized, backpack sprayers. The motorized, backpack sprayer produces an air current that delivers small amounts of herbicide mixture from a portable spray tank to the target vegetation. The low-pressure hand-pump sprayer uses a column of water. In both cases, the amount of herbicide solution applied only dampens or lightly wets the target vegetation.

**Low-Volume Stem Basal:** the selective application of herbicides to the lower 6"-8" of the plant stem. The herbicide concentration is applied with low-pressure, backpack sprayers with special wand attachments and positive shut-off nozzle tips with small orifices.

**Cut Stump Surface Treatment (CST):** the application of an herbicide mixture to the cut surface of a stump immediately following or during a cutting operation. Application equipment includes low-volume, backpack, hand-pump sprayers; hand held squirt bottles; paintbrushes, or sponge applicators.

*B. Guidelines:*

1. All Sensitive Area restrictions will be followed.
2. Foliar and Basal treatments are used within the cleared width of the ROW for tree and shrub target species below 12 feet in height.
3. CST treatments are used in conjunction with hand-cutting and in situations including but not limited to: trees and shrubs that cannot be foliar treated, at road buffers, and around structures such as poles and gates.
4. Only mechanical treatment methods will be used in *no spray* Sensitive Areas, including but not limited to hand cutting, trimming and mowing.

*C. Treatment of Wetlands*

Herbicide applications in wetlands will be performed in accordance with 333 CMR 11.04 (4)(c)(2) relative to ROW management. Targets will be selectively treated with herbicides on the DAR's *Sensitive Area Material List* and will not be applied within ten (10) feet of standing or flowing water.

*D. Treatment of State-Listed Priority Habitats*

All vegetation management activities will be completed in compliance with the Massachusetts Endangered Species Act (MESA; MGL c. 131 A) and its regulations, 321 CMR 10.00.

## VII. PROPOSED HERBICIDES, CARRIERS, ADJUVANTS AND RATES

In 2019 only the Commonwealth of Massachusetts recommended herbicides listed below for use in Sensitive Areas—pursuant to 333 CMR 11.04 (1)(d)—will be used on the entire length and cleared width of Eversource Energy ROW corridors, in compliance with all labeled directions.

**Table VII. Tank Mix for Low Volume Foliage Applications:**

Herbicides & Adjuvants	Active Ingredient	EPA Registration Number(s)	Mix Concentration (per 100 gals. water)	Estimated Application Rate Per Acre
Rodeo	Glyphosate	62719-324	3-5%	16-128 oz.
Krenite S	Fosamine Ammonium	42750-247	6-10%	32-128 oz.
Garlon 4 Ultra	Triclopyr	62719-527	2-4%	16-128 oz.
Escort XP or Patriot	Metsulfuron-Methyl	432-1549 or 228-391	2-4 oz.	0.125-0.8 oz.
Arsenal Powerline or Polaris*	Imazapyr	241-431 or 228-534	0.125%-0.5%	2-8 oz.
Induce, Clean Cut, MSO, or Aqua Fac or equivalent surfactant†	n.a.‡	n.a.	0.125%-1%	1-16 oz.
Point Blank, Clasp or equivalent drift retardant	n.a.	n.a.	0.125%-0.5%	1-2 oz.
Carrier: Water	n.a.	n.a.	n.a.	n.a.

**Table VIII: Tank Mix for Poison Ivy, Vines, and Invasive Species**

Herbicides & Adjuvants	Active Ingredient	EPA Registration Number(s)	Mix Concentration (per 100 gals. water)
Rodeo	Glyphosate	62719-324	2-5%
Garlon 4 Ultra	Triclopyr	62719-527	2-4%
Escort XP or Patriot	Metsulfuron-Methyl	432-1549 or 228-391	1.25-4 oz.
Induce, Clean Cut, MSO, or equivalent surfactant	n.a.	n.a.	0.125%-1%
Point Blank, Clasp or equivalent drift retardant	n.a.	n.a.	4-16 oz.
Carrier: Water	n.a.	n.a.	n.a.

\*Imazapyr will not be applied on the same right-of-way in two consecutive years.

† Equivalent surfactants, drift retardants and basal oils will be used if those listed are no longer available or more effective alternatives become available.

‡ n.a.—not applicable

**Table IX. Tank Mixes for Cut Surface Treatment (CST) Applications:**

Herbicides & Adjuvants	Active Ingredient	EPA Registration Number(s)	Mix Concentration (per 100 gals. water)	Estimated Application Rate Per Acre
Rodeo	Glyphosate	62719-324	40% to 50%	Per density of target stems
Arsenal Powerline or Polaris	Imazapyr	241-431 or 228-534	3%-5% (mixed with Rodeo)	Per density of target stems
Carriers: Water or Windshield Washing Fluid	n.a.	n.a.	n.a.	n.a.

**Table X. Tank Mixes for Low-Volume Basal or Cut Surface Treatment (CST) Applications:**

Herbicides & Adjuvants	Active Ingredient	EPA Registration Number(s)	Mix Concentration (per 100 gals.)	Estimated Application Rate Per Acre
Garlon 4 Ultra	Triclopyr	62719-527	20%-30%	Per density of target stems
Polaris	Imazapyr	228-534	3%-5% (mixed with Garlon 4 Ultra)	Per density of target stems
Carrier: Arborchem's low odor basal oil or equivalent	n.a.	n.a.	n.a.	n.a.

## VIII. ALTERNATIVE MECHANICAL CONTROL TECHNIQUES

Areas not treated or prohibited from herbicide use, such as protective buffers for Sensitive Areas, will be maintained mechanically according to the specifications in the VMP's. The following is a brief review of these methods:

**Hand Cutting:** the use of chain and brush saws to remove the stem and/or branches from the plant's root system; can be combined with CST except in no-chemical restricted areas.

**Mowing:** the cutting, severing or shattering of vegetation by large rotary or flail mowers.

**Side Pruning:** side pruning or removal of encroaching tops and/or branches of trees growing on or near the ROW's and access roads.

## IX. COMPANIES THAT MAY PERFORM THE HERBICIDE TREATMENT

Vegetation Control Service, Inc.  
2342 Main Street  
Athol, MA 01331  
(978) 249-5348

Lewis Tree Service, Inc.  
300 Lucius Gordon Drive  
West Henrietta, NY 14586  
(585) 436-3208

Lucas Tree  
636 Riverside St.  
Portland, ME 04104  
(888) 845-7870

Tree Tech  
6 Springbrook Rd.  
Foxboro, MA 02035  
(888) 873-3832

Stanley Tree Service, Inc.  
662 Great Rd  
North Smithfield, RI 02896-6864  
(866) 765-4783

Rainbow Treecare  
11571 K-Tel Dr.  
Minnetonka, MN 55343  
(952) 922-3810

## **X. INDIVIDUAL RESPONSIBLE FOR SUPERVISING THE OPERATION PLAN**

William Hayes  
Supervisor  
Eversource Energy  
Transmission Vegetation Management  
247 Station Drive, SE-370  
Westwood, MA 02090-9230  
781-441-3932 (office)

## **XI. HERBICIDE FACT SHEETS**

Herbicide Fact Sheets prepared and provided by the DAR, explain technical information relative to the herbicide concentrates proposed for use during the 2019 treatment cycle. These are included in Appendix III, along with the manufacturer's labels in Appendix IV.

## **XII. PROCEDURES FOR HANDLING, MIXING AND LOADING HERBICIDE CONCENTRATES**

All herbicides will be handled, mixed and applied strictly according to *Label Instructions* and in compliance with all applicable federal and state laws and regulations. If possible, herbicide mixing should be done at the contractor's facilities and extreme care shall be exercised during all mixing, handling and loading in order to prevent careless spills or splashes. No herbicide concentrates will be mixed, handled or loaded on a ROW within one hundred (100) feet of a Sensitive Area.

## **XIII. EMERGENCY RESOURCES**

Eversource contracts with independent, professional, certified herbicide applicators that are responsible for the containment, clean up and reporting of chemical spills or accidents. The following is a guide to the information sources that, according to various regulations, must be available to the treatment crew in the event of a chemical spill or emergency situation:

- A. Technical Reference Materials:
  - a. Product Label
  - b. Product Material Safety Data Sheet (SDS)
  - c. Product Fact Sheet, if available

**B. Table XI. Herbicide Manufacturers:**

<b>MANUFACTURER</b>	<b>TELEPHONE NUMBER</b>	<b>SPECIAL INSTRUCTIONS</b>
Albaugh Inc.	800-247-8013	
BASF Corporation	800-832-4357	
Bayer Environmental Science	800-334-7577	
Dow Agro Sciences	800-992-5994	
Monsanto	314-694-4000	
Nufarm	877-325-1840	Medical Emergencies

C. **Table XII. State Agencies:**

STATE AGENCY	TELEPHONE NUMBER	SPECIAL INSTRUCTIONS
Massachusetts Pesticide Bureau	(617) 626-1700	A.S.A.P. (within 48 hours)
Massachusetts Department of Environmental Protection, Emergency Response Section	DEP 24 Hour Contact: (888) 304-1133 ----- Southeast Region: (508) 946-2700 ----- Northeast Region: (978) 694-3200 ----- Western Region: (413) 784-1100 ----- Central Region: (508) 792-7650	For emergencies involving reportable quantities of hazardous materials; required info: City/town, street address, site name (if applicable), material
Massachusetts Dept. of Public Health, Bureau of Env. Health Assessment Toxicology Program	(617) 624-5757	
Massachusetts Poison Information Centers	(800) 682-9211	For medical emergencies involving suspected or known pesticide poisoning symptoms

D. **Table XIII. Emergency Services:**

EMERGENCY SERVICE	TELEPHONE NUMBER	SPECIAL INSTRUCTIONS
Massachusetts State Police, Central Office	617-566-4500 or 911	
Local Fire / Police Dept.	911	
Chem Trec	800-424-9300	
Clean Harbors	800-OIL-TANK	
Pesticide Hotline	800-858-7378	PST: 8:00 am to 12:00 pm, Web: <a href="http://www.NPIC.orst.edu">www.NPIC.orst.edu</a>

E. Eversource contact in the case of a spill or accident is:

System Control  
Eversource  
247 Station Drive  
Westwood, MA 02090-9230  
(617)-541-7858

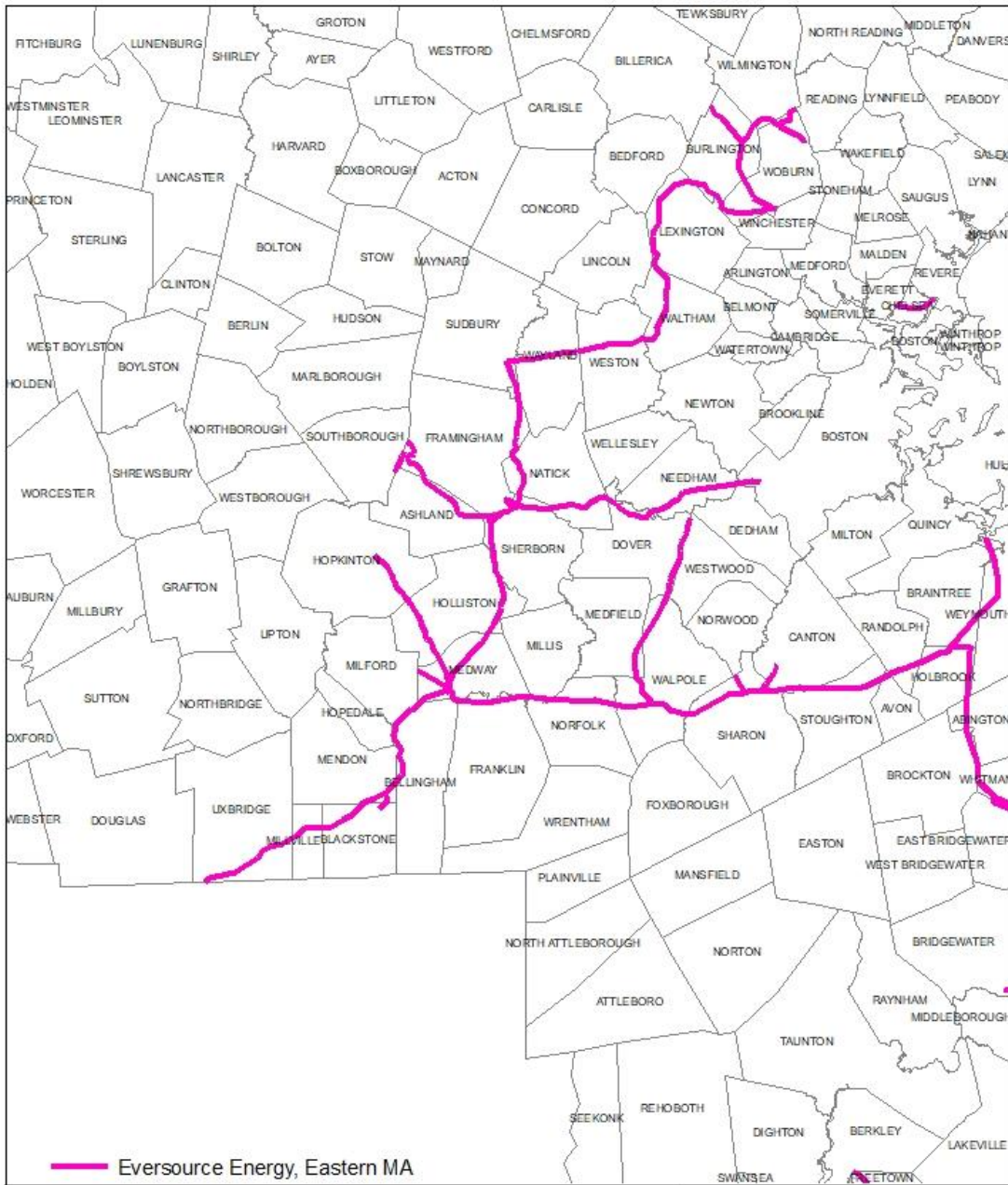
F. Table XIV. Local Emergency Numbers:

Non-911 Emergencies Services for Eversource Electric Municipalities

Town	Board of Health	Town/City Hall	Town	Board of Health	Town/City Hall
Acushnet	(508) 998-0275	(508) 998-0200	Marion	(508) 748-3530	(508) 748-3500
Amherst	(413) 259-3077	(413) 259-3035	Marshfield	(781) 834-5558	(781) 834-5563
Ashfield	(413) 628-4441	(413) 628-4441 x5	Mashpee	(508) 539-1426	(508) 539-1400
Avon	(508) 588-0414	(508) 588-0414	Mattapoissett	(508) 758-4100 x8	(508) 758-4100
Barnstable	(508) 862-4644	(508) 862-4610	Medfield	(508) 906-3006	(508) 906-3010
Belchertown	(413) 323-0406	(413) 323-0281	Medway	(508) 533-3206	(508) 533-3200
Bellingham	(508) 966-5820	(508) 966-5805	Mendon	(508) 634-2656	(508) 478-2737
Blackstone	(508) 883-1500 x129	(508) 883-1500	Middleborough	(508) 946-2408	(508) 946-2405
Bourne	(508) 862-4644	(508) 862-4610	Millis	(508) 376-7042	(508) 376-7040
Braintree	(781) 794-8090	(781) 794-8000	Millville	(508) 883-5041	(508) 883-1186
Bridgewater	(508) 697-0903	(508) 697-0919	Montague	(413) 863-3200 x205	(413) 863-3200 x104
Burlington	(781) 270-1955	(781) 270-1600	New Bedford	(508) 991-6199	(508) 979-1400
Canton	(781) 821-5021	(781) 821-5000	Norfolk	(508) 528-7747	(508) 528-1408
Carver	(508) 866-3420	(508) 866-3400	Northfield	(413) 498-2901	(413) 498-2901 x112
Chatham	(508) 945-5165	(508) 945-5100	Orleans	(508) 240-3700 x450	(508) 240-3700 x415
Chelsea	(617) 466-4090	(617) 466-4080	Pelham	(413) 253-0512	(413) 253-0512
Cheshire	(413) 743-0876	(413) 743-0876	Peru	(413) 655-8312	(413) 655-8312
Chesterfield	(413) 296-4771	(413) 296-4741	Pittsfield	(413) 499-9411	(413) 499-9361
Chicopee	(413) 594-1660	(413) 594-1466	Plainfield	(413) 634-5343	(413) 634-5420
Conway	(413) 369-4235 x8	(413) 369-4235 x4	Plymouth	(508) 747-1620 x118	(508) 747-1620 x106
Cummington	(413) 634-5757	(413) 634-5560	Plympton	(781) 585-7000	(781) 585-2700
Dalton	(413) 684-6111 x20	(413) 684-6111 x14	Randolph	(781) 961-0924	(781) 961-0900
Dartmouth	(508) 910-1804	(508) 910-1813	Sandwich	(508) 888-4200	(508) 888-5144
Deerfield	(413) 665-1400 x109	(413) 665-1400 x100	Sharon	(781) 784-1510	(781) 784-1515
Dennis	(508) 760-6158	(508) 394-8300	Shelburne	(413) 625-0300	(413) 625-0300
Dover	(508) 785-0032 x232	(508) 785-0032	Shutesbury	(413) 259-2122	(413) 259-1204
Duxbury	(781) 934-1105	(781) 934-1100	South Hadley	(413) 538-5017	(413) 538-5017 x201
Eastham	(508) 867-0343	(508) 867-6769	Stoughton	(781) 344-6960	(781) 341-1300 x163
Easthampton	(413) 529-1400 x430	(413) 529-1400 x460	Sudbury	(978) 443-2209 x1379	(978) 639-3381
Erving	(413) 422 2800 x101	(413) 422-2800 x101	Sunderland	(413) 665-1440	(413) 665-1440
Fairhaven	(508) 979-4022	(508) 979-4023	Truro	(508) 349-7004 x32	(508) 349-5505
Falmouth	(508) 495-7485	(508) 548-7611	Uxbridge	(508) 278-8600	(508) 278-8600
Franklin	(508) 520-4905	(508) 520-4900	Walpole	(508) 660-7320	(508) 660-7300
Gill	(413) 863-9347	(413) 863-8103	Waltham	(781) 314-3305	(781) 314-3100
Granby	(413) 467-7177	(413) 467-7177	Wareham	(508) 291-3100 x3197	(508) 291-3100
Greenfield	(413) 772-1404	(413) 772-1555	Warwick	(978) 544-6315	(978) 544-3402
Hadley	(413) 584-4562	(413) 584-1590	Wayland	(508) 358-3617	(508) 358-7755
Hancock	(413) 738-5225	(413) 738-5225	Wellfleet	(508) 349-0308	(508) 349-0300
Harwich	(508) 430-7509	(508) 430-7513	Wendell	(978) 544-3395 x106	(978) 544-3395 x2
Hinsdale	(413) 655-2300 x311	(413) 655-2300 x301	Weston	(781) 586-5030	(781) 586-5020
Holbrook	(781) 767-3030	(781) 767-4312	Westwood	(781) 320-1027	(781) 326-6450
Holliston	(508) 429-0605	(508) 429-0601	Weymouth	(781) 340-5008	(781) 335-2000
Hopkinton	(508) 497-9725	(508) 497-9700	Wilmington	(978) 658-4298	(978) 658-3311
Kingston	(781) 585-0503	(781) 585-0500	Windsor	(413) 684-3811 x7	(910) 620-0162
Lanesborough	(413) 442-1167 x28	(413) 442-1351	Woburn	(781) 932-4407	(781) 932-4400
Leverett	(413) 548-1022 x4	(413) 548-9150	Yarmouth	(508) 398-2231 x1241	(508) 398-2231
Ludlow	(413) 583-5600	(413) 583-5600 x1230			

**APPENDIX I:  
Maps**





— Eversource Energy, Eastern MA

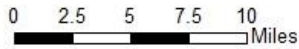


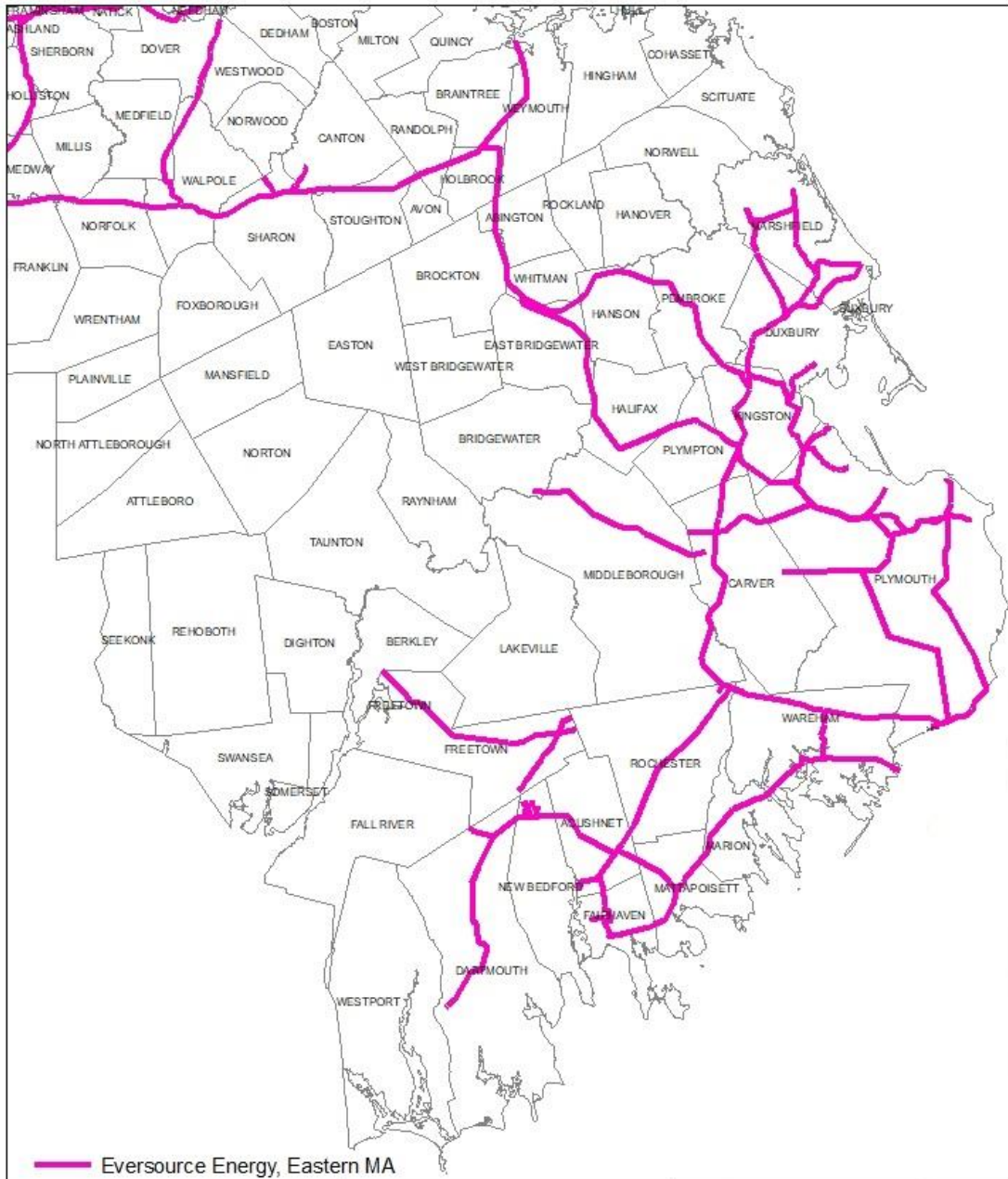
### Eversource Energy Eastern, MA System Map

Map 1 of 2

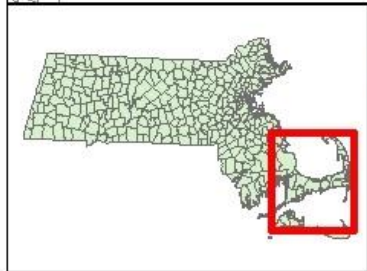
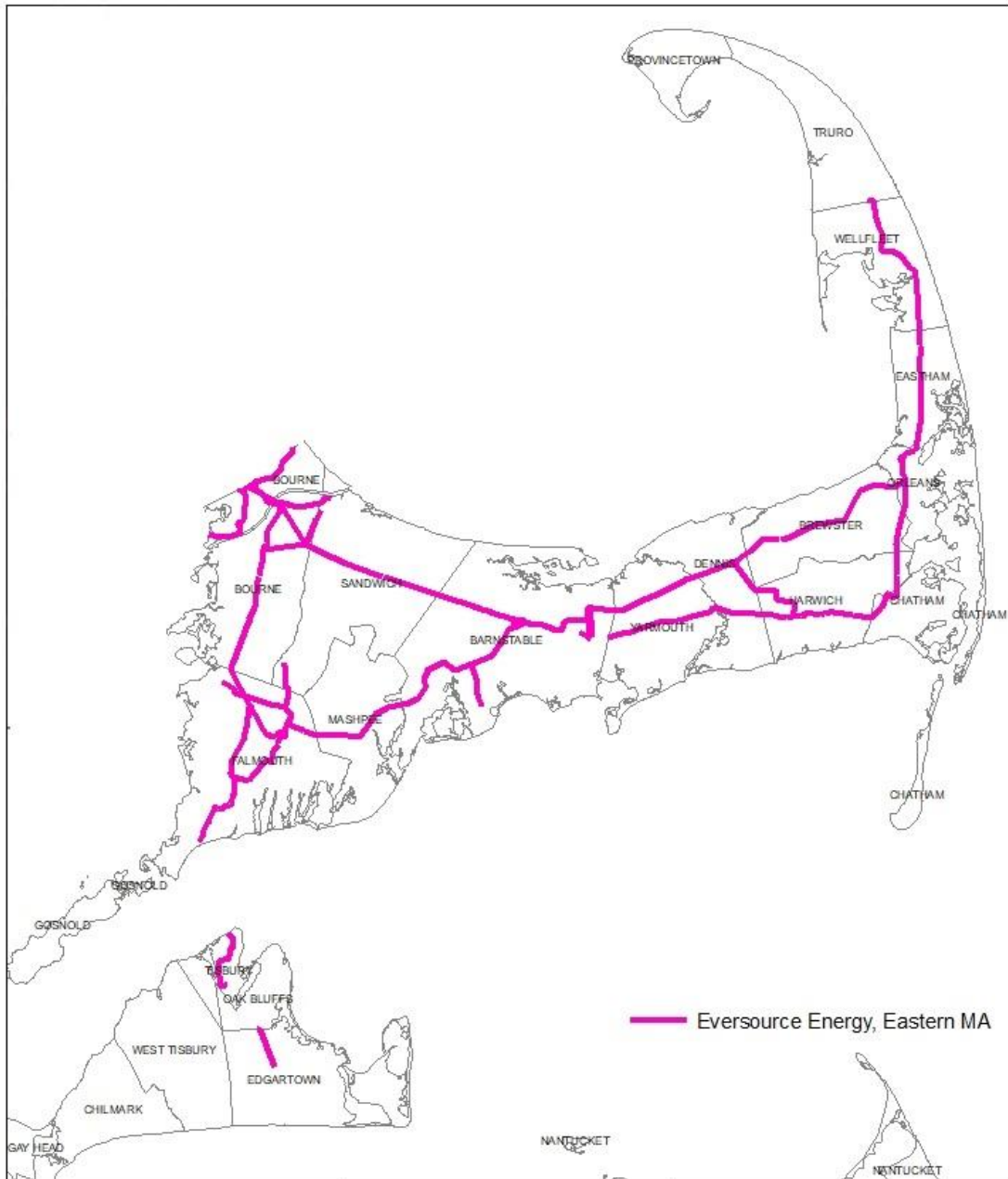


1:400,000

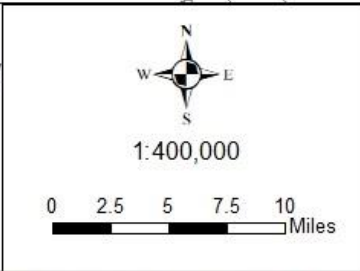


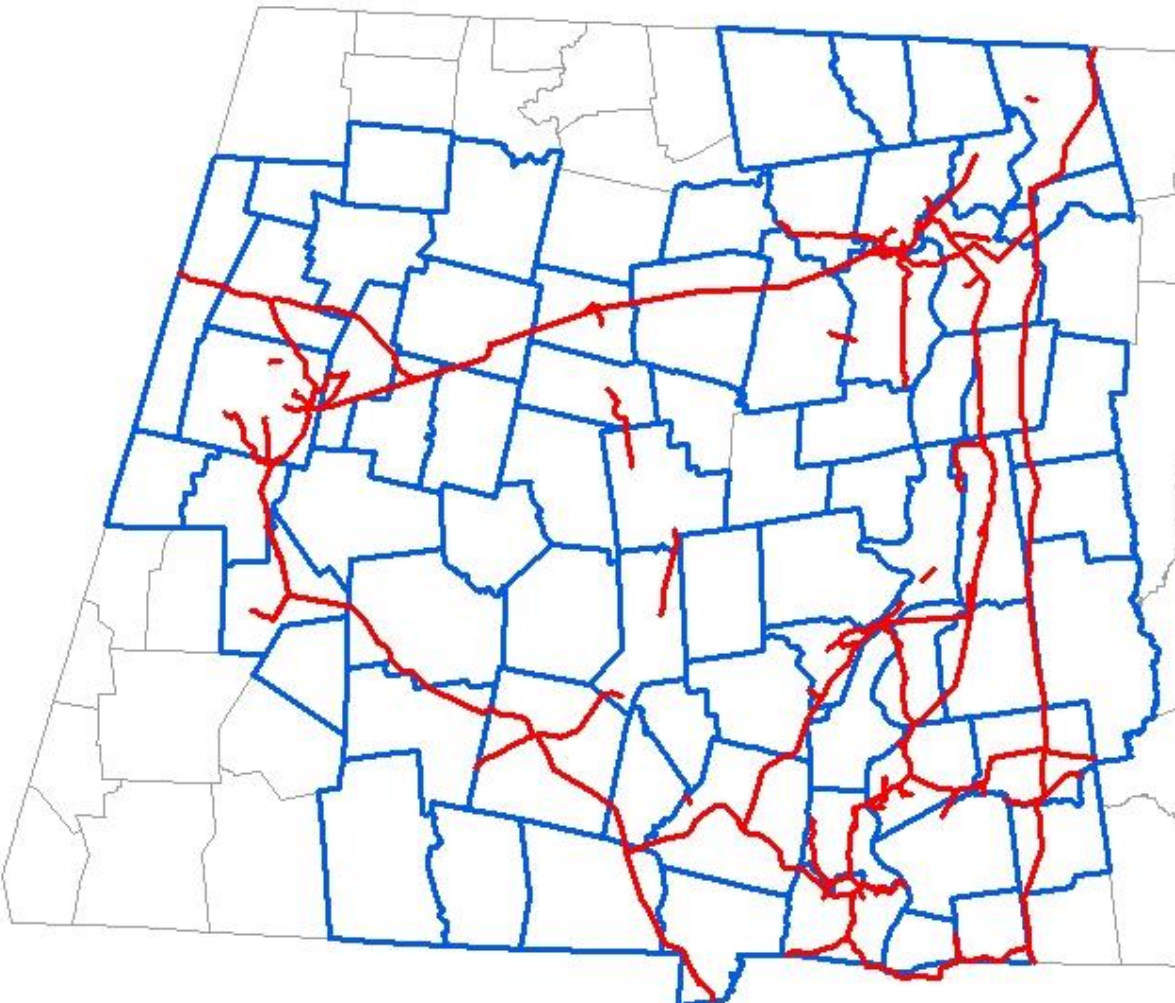


	<h2 style="text-align: center;">Eversource Energy Eastern, MA System Map</h2> <p style="text-align: right;">Map 2 of 2</p>	<p style="text-align: center;">1:400,000</p> <p style="text-align: center;">0 2.5 5 7.5 10 Miles</p>
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Eversource Energy  
Eastern, MA  
System Map





Eversource Energy  
Western, MA  
System Map



1:600,000



**APPENDIX II:  
Sensitive Area Table**

**CONTROL STRATEGIES FOR SENSITIVE AREAS<sup>#</sup>**

Sensitive Area	No-Spray and Limited Spray Areas (feet)	Control Method	Restriction Code
Public Ground Water Supplies	400'	Mechanical Only	None
Primary Recharge Area	Designated buffer zone or ½ mile radius	Mechanical, Recommended Herbicides*	24 months
Public Surface Water Supplies (Class A & Class B)	100'	Mechanical Only	None
	100'-400'	Recommended Herbicides	24 months
Tributary to Class A Water Source, within 400' upstream of water source	100'	Mechanical Only	None
	100'-400'	Recommended Herbicides	24 months
Tributary to Class A Water Source, greater than 400' upstream of water source	10'	Mechanical Only	None
	10'-200'	Recommended Herbicides	24 months
Class B Drinking Water Intake, within 400' upstream of intake	100'	Mechanical Only	None
	100'-200'	Recommended Herbicides	24 months
Private Drinking Water Supplies	50'	Mechanical Only	None
	50'-100'	Recommended Herbicides	24 months
Surface Waters	10'	Mechanical Only	None
	10'-100'	Recommended Herbicides	12 months
Rivers	10' from mean annual high water line	Mechanical Only	None
	10'-200'	Recommended Herbicides	12 months
Wetlands	100' (treatment in wetlands permitted up to 10' of standing water)*+	Low-pressure Foliar, CST, Basal Recommended Herbicides	24 months
Inhabited Areas	100' (for high-pressure foliar only)	Recommended Herbicides	12 months
Agricultural Area (Crops, Fruits, Pastures)	100' (for high-pressure foliar only)	Recommended Herbicides	12 months
Certified Vernal Pools	10'	Mechanical Only when water is present	None
Certified Vernal Pool Habitat	10'-outer boundary of habitat	No treatment without written approval per 321 CMR 10.14(12)	
Priority Habitat	No treatment without written approval per 321 CMR 10.14(12)		

Restrictions "24 Months": A minimum of twenty-four months shall elapse between applications

"12 Months": A minimum of twelve months shall elapse between applications

\*Massachusetts recommended herbicides for sensitive sites

+Per "Decision Concerning the Wetlands Impact Study"

#Table Compiled by Jeffrey M. Taylor, Vegetation Control Service, Inc.

**APPENDIX III:  
Herbicide Fact Sheets**

<https://www.mass.gov/service-details/rights-of-way-sensitive-area-materials-list>

## **APPENDIX IV: Herbicide Labels**

ARSENAL POWERLINE

[WWW.CDMS.NET/LDAT/LD86K002.PDF](http://WWW.CDMS.NET/LDAT/LD86K002.PDF)

ESCORT XP:

[HTTP://WWW.CDMS.NET/LDAT/LDCFM000.PDF](http://WWW.CDMS.NET/LDAT/LDCFM000.PDF)

GARLON 4 ULTRA:

[HTTP://WWW.CDMS.NET/LDAT/LD7IN006.PDF](http://WWW.CDMS.NET/LDAT/LD7IN006.PDF)

KRENITE S:

[HTTPS://S3-US-WEST-1.AMAZONAWS.COM/WWW.AGRIAN.COM/PDFS/KRENITE\\_S\\_LABEL11.PDF](https://s3-us-west-1.amazonaws.com/www.agrian.com/pdfs/KRENITE_S_LABEL11.PDF)

PATRIOT:

[HTTP://WWW.CDMS.NET/LDAT/LD6KH000.PDF](http://WWW.CDMS.NET/LDAT/LD6KH000.PDF)

POLARIS:

[HTTP://WWW.CDMS.NET/LDAT/LD8KR000.PDF](http://WWW.CDMS.NET/LDAT/LD8KR000.PDF)

RODEO:

[HTTP://WWW.CDMS.NET/LDAT/LD4TN013.PDF](http://WWW.CDMS.NET/LDAT/LD4TN013.PDF)