North Atlantic Fire Science Exchange Oak Capstone Workshop Fire in Oak: Regional Differences, Local Applicability

Challenges for using fire in oak: Opportunities in Massachusetts
Westborough, MA

June 16, 2016





Challenges for using fire in oak: Opportunities in Massachusetts

- > Planning
- > Funding
- > Oak Regeneration



Planning

Natural Resources Conservation Service

- Environmental Quality Incentives Program
 - Eligibility
 - Privately held land

Department of Conservation & Recreation

- Forest Stewardship Program
 - Eligibility
 - Individuals, joint owners, groups and associations, nonprofits, long term lease holders, corporations without publicly traded stock

Prescribed Burn Plan Grant Funding



Natural Resources
Conservation Service

- Environmental Quality
 Incentives Program
 - Eligibility
 - Private forest land
 - Private farmland



U. S. Fish & Wildlife Service



- Partners for Fish and Wildlife Program
 - Eligibility
 - Private or Municipal land within a New England Cottontail



MassWildlife Habitat Management Grant Program

➤ Goals:

➤ Improve habitat for game species and/or for Species of Greatest Conservation Need identified in the Massachusetts State Wildlife Action Plan (SWAP) (special emphasis on State-Endangered and State-Threatened Species).



- > Expand public recreational opportunities for hunting, fishing, trapping, and other wildlife associated recreation on conserved lands.
- ➤ Eligible to owners of private or municipal conserved lands protected in fee or by a Conservation Restriction, land enrolled in Chapter 61,61A/B, or land under a current Landowner Incentive Program covenant

http://www.mass.gov/eea/agencies/dfg/dfw/wildlife-habitat-conservation/habitat-grant.html

MassWildlife Habitat Management Grant Program

- > \$350,000 in FY2016
- > 18 Projects
- ➤ 3 Prescribed Fire Projects totaling \$65,000



- •Brookfield and Ware The East Quabbin Land Trust: \$16,730 to use prescribed fire to restore Pitch Pine-Scrub Oakand wet meadow habitats on Frohloff Farm and Wendemuth Meadow Preserve.
- •Edgartown The Nature Conservancy: \$32,908 to conduct prescribed burns to maintain sandplain grassland habitat on the Katama Plains Conservation Area.
- •Nantucket MassAudubon: \$13,200 for prescribed burning at Sesechacha Heathland Wildlife Sanctuary to manage sandplain heathland habitat.

National Fish & Wildlife Foundation Grant Program



- > **NFWF** provides funding on a competitive basis to projects that sustain, restore, and enhance our nation's fish, wildlife, and plants and their habitats (>\$1,000,000 in 2015).
- >**NFWF** supports more than 70 grant programs to protect and restore our nation's wildlife and habitats.

>Who Can Apply

- ➤ Federal, state, and local governments, educational institutions, and nonprofit organizations are welcome to apply twice annually for matching grants from our conservation priority programs.
- For other funding opportunities, application timelines, scope and guidelines vary.

http://www.nfwf.org/whatwedo/grants/Pages/home.aspx

Natural Resources Conservation Service

- Environmental Quality Incentives Program
 - Eligibility
 - Privately owned forest land with a forest management plan prescribing the management

Department of Conservation & Recreation

- Community ForestStewardshipImplementation Grants
 - Eligibility
 - Town Forest or Water Supply land currently enrolled in the Forest Stewardship Program

Grant Funded Prescribed Burns



NRCS Funded Maritime Shrubland, Dartmouth

Contacts

• MassWildlife Habitat Management Grant Program James Burnham,

617-626-1586

NRCS Environmental Quality Incentives Program

Marianne Piché,

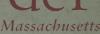
508-389-6313

 Department of Conservation and Recreation Forest Stewardship Program

Michael Downey,

978-368-0126 ext. 129







NRCS Funded Oak Regeneration, Granville





Oak Regeneration, Phillipston WMA















Forests of Massachusetts, 2014





Table 2.—Top 10 trees species by volume estimates, Massachusetts, 2009-2014

Rank	Species	Volume of live trees on forest land (million ft³)	Sampling error (%)	Change since 2009 (%)	Volume of sawtimber trees on timberland (million board ft)	Sampling error (%)	Change since 2009 (%)
1	Eastern white pine	2,099.8	7.8	13.2	9,291.2	8.5	17.0
2	Red maple	1439.1	5.8	4.3	3018.9	8.6	7.5
3	Northern red oak	988.8	8.2	9.4	3,633.5	9.1	11.0
4	Eastern hemlock	858	10.3	7.5	2278.6	11.9	4.2
5	Black oak	353.6	10.5	8.8	1,120.0	13.6	14.7
6	Sugar maple	320.2	12.8	-3.5	788.4	15.5	-1.9
7	White ash	305.7	14.0	-0.9	993.2	17.7	2.3
8	Sweet birch	269.1	11.5	12.1	568.2	17.1	15.4
9	White oak	243.4	10.3	15.1	744.5	14.2	18.8
10	Scarlet oak	225.6	13.2	2.7	645.6	15.6	1.5
	Other softwoods	223.2	15.2	8.7	547.0	18.2	14.3
	Other hardwoods	1099.4	6.2	2.4	2840.6	9.2	6.3
	All species	8,425.7	2.4	7.3	26,469.6	3.5	10.9



Forests of Massachusetts, 2014





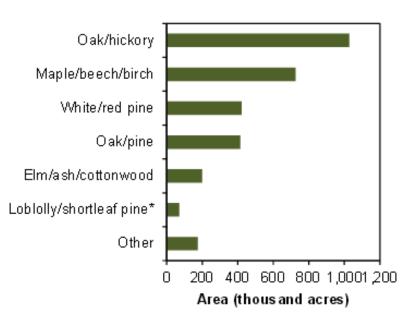


Figure 4.—Area of forest land by forest-type group, Mass achusetts, 2009-2014. * Represented by the pitch pine forest type in Massachusetts.

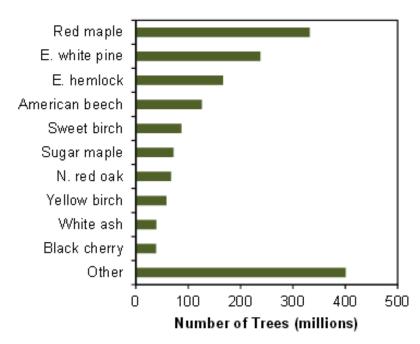


Figure 5.—Number of trees ≥1 in diameter by species, Mass achusetts, 2009-2014.