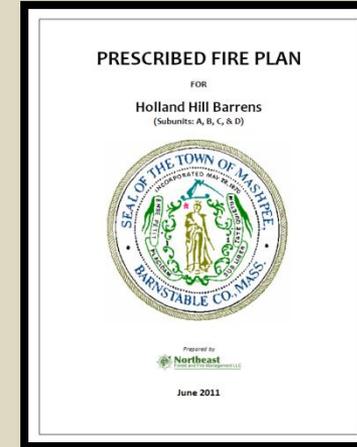


# TECHNICAL SESSION 1B: Prescribed Fire and Habitat Management for Rare Species, Declining Species, and Traditional Game Species



## Pre-implementation and Implementation Considerations



**Joel R. Carlson**  
Principal Consultant & Owner

**Northeast**  
Forest and Fire Management, LLC



**Protecting our Investment in Wildlife Diversity**  
New Tools for Wildlife Habitat Management on Public and Private Lands  
Division of Fisheries & Wildlife Field Headquarters, Westborough, MA

**Saturday, October 24, 2015**



# LAND MANAGEMENT PRACTICES BENEFITTING FROM FIRE

- Fire Hazard Reduction
- Fire Fighter Training
- Ecological or Rare Species Management
- Wildlife Management
- Turf Management
- Vista Maintenance
- Cultural Landscape Maintenance
- Mast & Berry Production
- Pasture Management
- Silviculture or Timber Management
- Invasive Species Management
- Pest Reduction
- Many Others





# WHAT IS A “PRESCRIBED BURN” OFTEN CALLED A “CONTROLLED BURN”



Any fire ignited by management actions to meet specific objectives.

A written, approved prescribed fire plan must exist, and environmental regulation requirements (where applicable) must be met, prior to ignition.

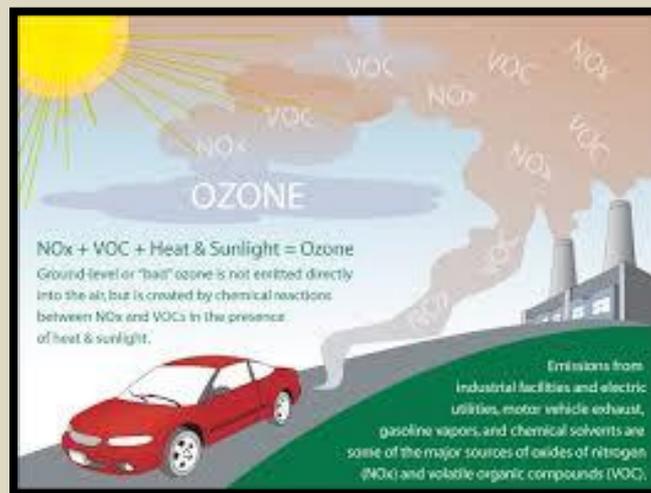
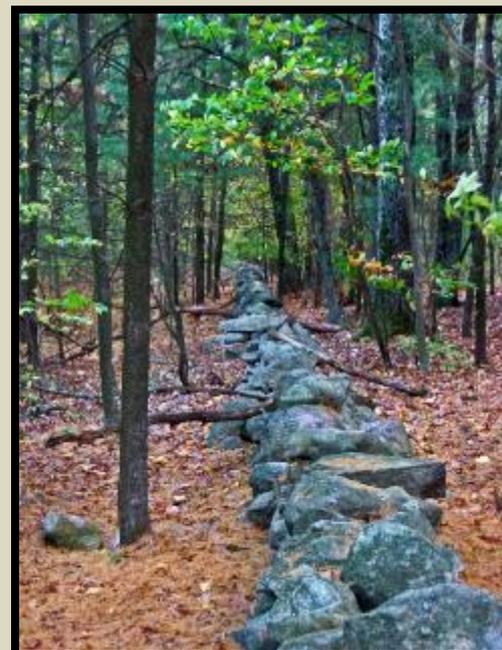


# QUALIFIED & EXPERIENCE PLANNERS & IMPLEMENTERS





# LEGAL AND REGULATORY FRAMEWORK





# PLANNING



1. Signature Page
  2. Go/No-Go Checklists
  3. Complexity Analysis Summary
  4. Description of Prescribed Fire Area
  5. Goals and Objectives
  6. Funding
  7. Prescription
  8. Scheduling
  9. Pre-Burn Considerations
  10. Briefing
  11. Organization and Equipment
  12. Communications
  13. Safety and Medical
  14. Test Fire
  15. Ignition Plan
  16. Holding Plan
  17. Contingency Plan
  18. Wildfire Conversion
  19. Smoke and Air Quality Management
  20. Monitoring
  21. Post-burn Activities
- Appendix A: Maps
- Appendix B: Fire Behavior Modeling
- Appendix C: Complexity Analysis
- Appendix D: Job Hazard Analysis
- Appendix E: Technical Reviewer Checklist



# SITE PREPARATION





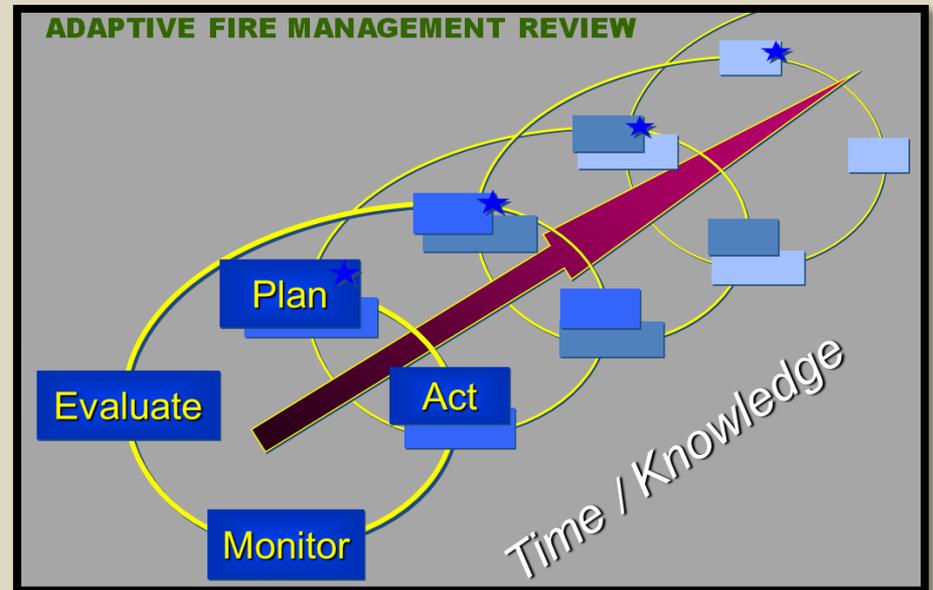
# IMPLEMENTATION OF A PRESCRIBED BURN





# POST BURN ACTIVITIES

- Check Burn Unit
- Assemble Project File
- Conduct any Needed Post Burn Monitoring
- Use the Adaptive Management Processes





# CONSIDERATIONS FOR LAND STEWARDS

- Long Ramp Up Period
- Funding Sources
- Unpredictability of Weather
- Public Relations
- Organizational Acceptance
- Need for Continued Management
- Liability
- Difficulty in Acquiring Specialized Crew and Equipment



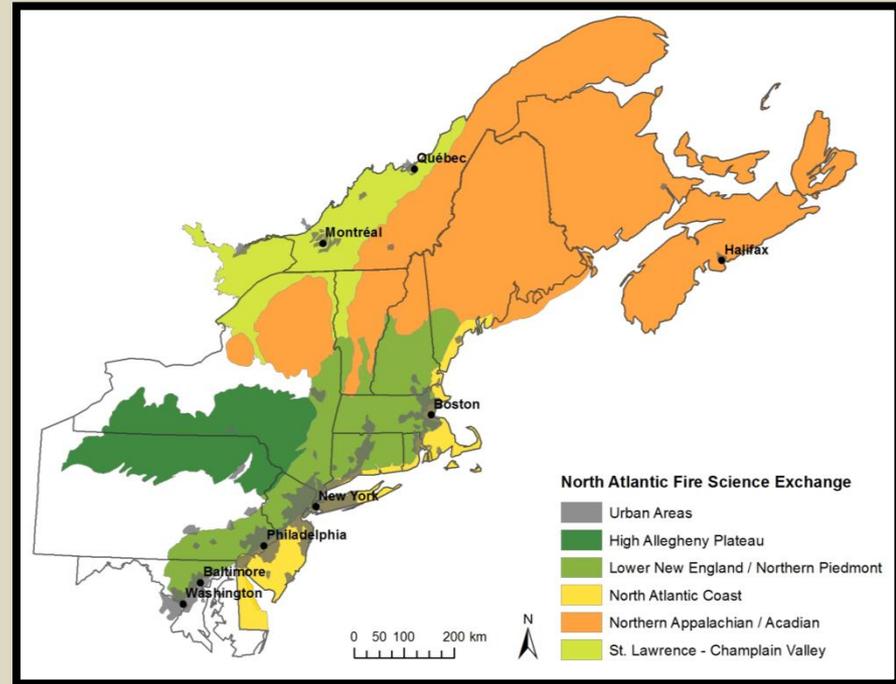


# North Atlantic Fire Science Exchange

*Fire science communication in a complex landscape.*



A member of the fire science exchange network



- Promote opportunities for communication.
- Focus on innovative solutions for our unique challenges.
- Provide easy access to current research and facilitate new research.
- Serve as an outlet for regional fire science.

North Atlantic Fire Science Exchange

JFSP FIRE SCIENCE EXCHANGE

Events & Webinars | Research & Publications | Partners & Tools | Funding | Community | About

**Topics**

- Model/Tool/Technology (27)
- Fire Communication & Education (24)
- Wildfire Operations & Management (21)
- Fire Ecology & Effects (17)
- Fuels & Fuel Treatments (17)
- Prescribed Fire (15)

See more ▼

**Types of Resources**

**Featured Events and Webinars**

- Field Trip: Pitch Pine- Oak Management in Central Pennsylvania, Habitat Restoration in Progress**  
Sep 22, 2015
- NAFSE Webinar: Fire and the Northern Long-Eared Bat**  
Sep 22, 2015
- November Capstone Workshop, Stockton University, NJ**  
Nov 4, 2015 – Nov 6, 2015

North Atlantic Fire Science Exchange

Timeline

171 likes • This week

Valerie Minshak and 23 other friends

87 post reach this week

What have you been up to?

Invite friends to like this Page

Promote Your Page

Contact with more of the people who interact with this Page

North Atlantic Fire Science Exchange

Heading out!

North Atlantic Fire Science Exchange

Group pool

Contributions

200 photos

North Atlantic Fire Sci

Fire science communication in a complex landscape

Tweets & replies

Photos & videos

Who to follow

North Atlantic Region

North Atlantic Fire Sci

North Atlantic Fire Science Exchange

Home

Videos

Playlists

Channels

Discussion

About

Channel type

Home

Videos

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Channels

Discussion

About



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Fire science communication in a complex landscape.

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**In this month's Newsletter:**

- [July Field Trip Recap](#)
- [JFSP Funding Announcement](#)
- In The News:** Steven Pyne's Box and Burn, July prescribed burn in NY, Stockton's forest management plan, Long Island southern pine beetle battle.
- Upcoming Events:** Field trips, webinars, workshops, and trainings.
- One Fire Day:** Short Stories of Memorable Fires, "The Birthday Burn"
- North Atlantic Fire Science Resource Highlight:** Fire management of Japanese Stiltgrass

North Atlantic Fire Science Exchange

**Research Brief for Resource Managers**

Release: July 2015

Contact: Dr. Inga P. La Puma

Phone: 732-447-7168

Email: inga.lapuma@rutgers.edu

North Atlantic Fire Science Exchange | c/o Eric Lane USDA Forest Service, Northern Research Station, 271 Mast Rd. Durham, NH 03824 USA

**Wildland-Urban Interface Focus: Using a probability model to map ignition hazards**

Peters MP, Iverson LR, Matthews SN, Prasad AM (2013) Wildfire hazard mapping: exploring site conditions in eastern US wildland-urban interfaces. *International Journal of Wildland Fire*, 22: 567-578.

**Management Implications**

- Creating maps of ignition probabilities is a great way to understand where and





*Conserving and promoting the region's native plants to ensure healthy, biologically diverse landscapes*



you are here: [home](#) → [learn](#) → [our programs](#) → [introduction to prescribed fire](#)

## Introduction to Prescribed Fire

Prescribed fire, when planned for and implemented properly, is an effective land management, restoration, and maintenance tool. Participants will receive an overview of: the resources available for assessing the benefits of prescribed fire; considerations for safe and responsible implementation of a prescribed burn; and guidelines on what to expect leading up to, during, and following a burn day. Participants are encouraged to bring information on a site where they are considering a prescribed fire. This course is designed as an introduction for land managers and is not intended to qualify anyone to conduct a prescribed burn.

**Thursday, March 3, 10 a.m.-4 p.m.**

**Location:** Garden in the Woods, Framingham, MA

**Program Code:** BOT1105

**Instructor:** [Joel Carlson](#)

**Fee:** \$57 (Member) / \$69 (Nonmember)

**Limit:** 30 **Certificate:** Elective: FB/Adv.FB **CEU:** 1 CFE; 5.5 AOLCP

**Cosponsor:** Massachusetts Association of Conservation Commissions

**Online Registration:**  [REGISTER](#)



### Fire on the New England Landscape

Fire has shaped the landscape of New England for thousands of years. In the last several decades, professionals have increasingly used prescribed fires, ignited to meet specific objectives, as a land management tool. Learn about the history of fire ecology in New England, what prescribed fire is, why it's used, and how can it be implemented safely.

**Friday, February 26, 6:30-9 p.m.**

**Location:** Garden in the Woods, Framingham, MA

**Program Code:** BOT1102

**Instructor:** [Joel Carlson](#)

**Fee:** \$33 (Member) / \$40 (Nonmember)

**Limit:** 70 **Certificate:** Elective: FB/Adv.FB **CEU:** 1 CFE; 2.5 AOLCP

**Cosponsor:** Massachusetts Association of Conservation Commissions

**Online Registration:**  [REGISTER](#)



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