# Lisa Hayden New England Forestry Foundation



# My MassConn Woods

On-going initiative focused on landowner outreach for conservation & forest management since 2013







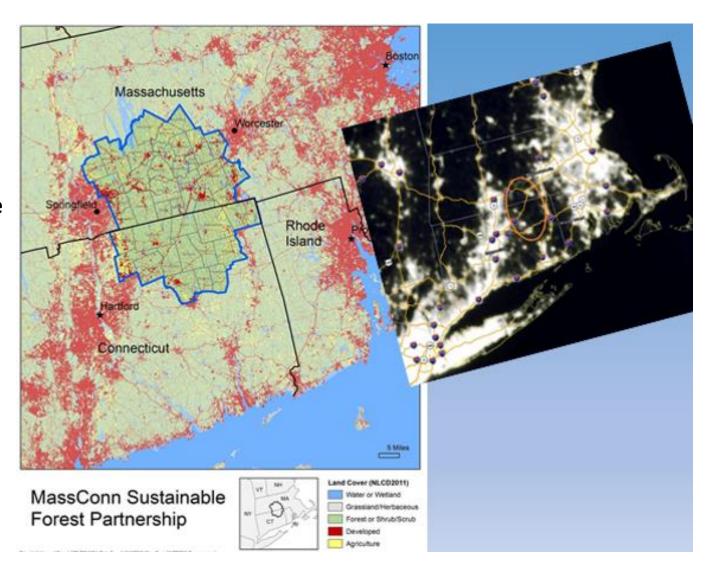


# MassConn Sustainable Forest Partnership

- 38 towns MA, CT
- 760,000 acres
- 76% forested
- 23% protected

#### **Conservation Goal:**

- 80,000 acres
- 33% of region



### MassConn Outreach since 2014

- "Touched" all 2,500 landowners owning 10+ acres in 10-town pilot region at least once
- 400 landowners owning >10,000 acres responded to 1 or more offers – expanded to all 38 towns
- Seeking repeated engagement over time events, email & offers for information or experts



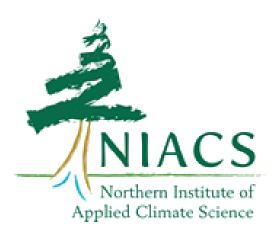
# First, a few questions...



- Has your land trust tried pro-active outreach to landowners? What have you done?
- Has your organization addressed climate change in some way? And have you communicated about it?
- Do you have a property or place in mind that may be vulnerable to climate change? If so, how?

#### Wildlife Conservation Society grant - 2016-17

How do we incorporate climate change into stewardship?

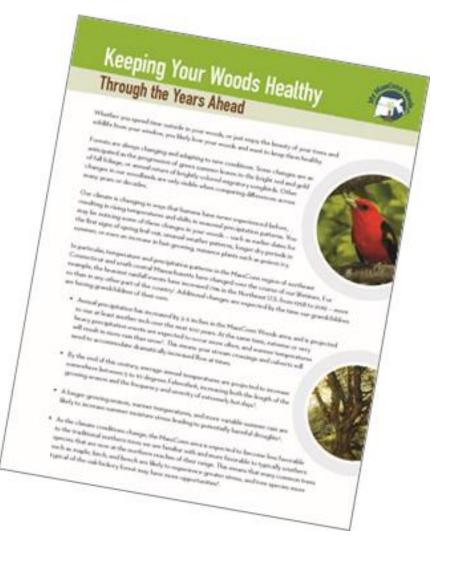




...Help foresters talk with landowners...

# Boiling it down for landowners...

#### Considerations for Your Woodlot The following are general recommendations to keep your woods healthy and able to adapt to changes into the future. While all of these actions are important, the checked recommendations are most applicable to your woods and your situation. To learn more, consult our fact sheet, consider working with a professional to implement these practices on the ground or visit our website at http://mymassconnwoods.org/. Top Forest Stressors to Keep an Eye Ox Extreme Weather Vulnerabilities Protect water and soils on your land Improve ability of your trees to resist bugs and disease Prevent and control non-native plants and weeds that threaten native plants and animals. Manage damage to young trees from excessive deer browsing Prepare for big weather events by promoting strong, healthy trees in your woodlot Respond quickly after big disturbance events to help your woods bounce back Promote a diversity of tree species Promote a diversity of tree sizes Protect rare or sensitive plant & animal communities Consider how your current trees will react to future conditions and which tree species you might want to promote Monitor your woods and the effect of different management tactics



**New Tools for Parcel Assessment Visits** 

# Equipping foresters for the conversation...

 Day-long training covering local climate effects, with working groups and field portion

- 100% of foresters surveyed found this training useful
- Forester companion piece: "field" cheat sheet to adaptation workbook

#### Climate Change & Our Forests



#### Guidance for Foresters and Land Managers

Forests are a defining feature of the landscape in "the MassConn Woods" of northeastern Connecticut and south central Massachusetts. These natural systems, so crucial to our history and current quality of life, provide many environmental, economic, and social benefits to the region.

These forests, primarily in private family or individual ownership, will increasingly be affected by a changing climate. Understanding these potential impacts is an important first step to sustaining healthy forests in the face of changing conditions.

#### THE CLIMATE HAS CHANGED

The Earth's climate is changing. Many trends have been tracked across the globe, some reaching back hundreds of thousands of years. Although the climate has always changed, the changes that have occurred over the past century are more profound than anything that has happened since the start of human civilization and have important effects on our current environment.

The average annual temperature in the area has risen more than 2°F since the late 1800s.\textstyle=
Temperatures warmed in all seasons, with winter warming by more than 3°F. Temperature records show that warming has accelerated in recent decades.

Winter temperatures increased by more than 3°F since the turn of the last century, and heavy rainfall events have become more common.

Precipitation also increased during this period, ranging from increases of approximately 3 inches across most of Connecticut to more than 5.5 inches in central Massachusetts. The greatest increase in precipitation has been in the fall, with smaller increases during spring and summer. Extreme predpitation events have increased substantially, particularly over the past several decades.

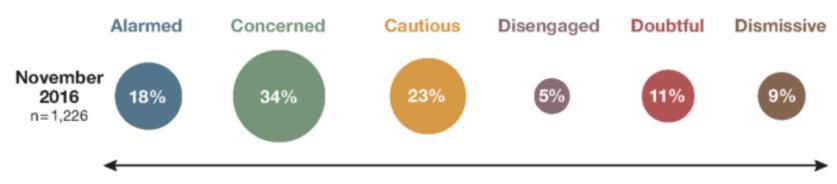
#### **CHANGES WILL CONTINUE**

It's impossible to predict exactly what will happen in the future, so global climate models can help us understand how the climate may react under various scenarios. There are many different models available and they provide an opportunity to understand the range of potential changes that may occur depending on the carbon-intensity of future energy sources.

#### Temperatures will increase

Climate models agree that temperatures will increase across all seasons in the region over the next century. The projected increase in annual temperature ranges from 3 to 10°F by the end of the century, depending upon future scenarios.<sup>3,4</sup> Growing seasons will continue to get longer as a result of warmer temperatures.

# Know your audience. What do they really believe?



Highest Belief in Global Warming Most Concerned Most Motivated

Proportion represented by area

Source: Yale / George Mason University

Least Motivated

# Find common ground.



## A "Four'easter" March





#### Harvest & Habitat Walks at Norcross Sanctuary

Folded Hills Forest 40-acre management site August 2016

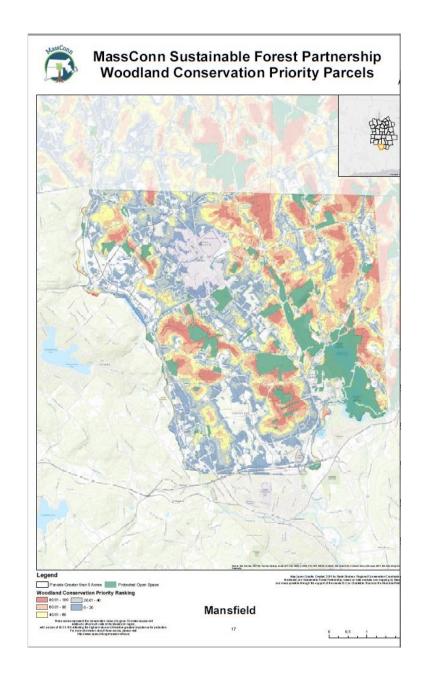


Whaleback Ridge Forest 20-acre harvest site May 2016

# Targeting Outreach

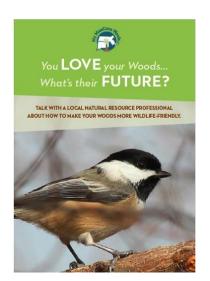
- Heat map: MassConn Ecological Priorities – Red = top 20%
- Tool for strategic landowner outreach:

Using GIS data to pull mailing list for outreach from highranking parcel ownerships – 25+ acres



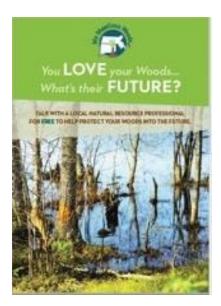
#### Talking Climate Change...

### What messages resonate?



Wildlife

- Direct mail to 613 MA, 424 CT owners of 30+ acres across 38 towns
- Also offered "free" forester visits at MassConn events and Woodland Ambassador workshops



**Extreme Weather** 



**Healthy Woods** 

#### **Considerations for Your Woodlot**

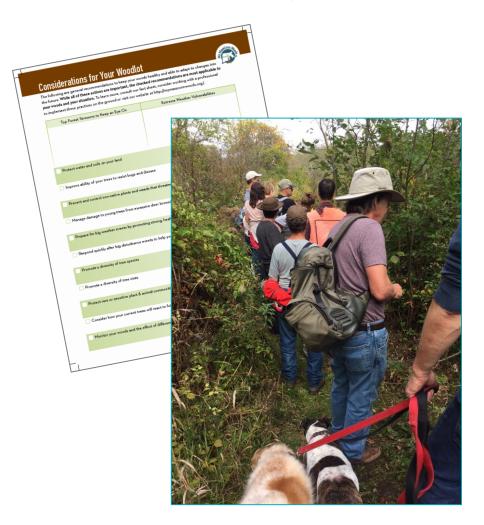


Climate-Informed Practices:

- ✓ Treated/removed invasives (12 acres barberry, knotweed, multiflora rose)
- ✓ Timber harvested to diversify age classes & species (40 acres)
- ✓ Clear-cut with reserves for wildlife habitat (4.5 acres)

#### **Considerations for Your Woodlot**

29 acres - Woodstock, CT



#### Forester Recommended:

- ✓ Continue to remove invasives, replace with natives (protect soil, H2O)
- ✓ Thin, release crop/mast trees (prepare for weather; promote strong trees)
- ✓ Release white pine regeneration (promote diversity of tree species)

#### Results

Exceeded Goal: 500 acres under climate-informed management

#### To Date:

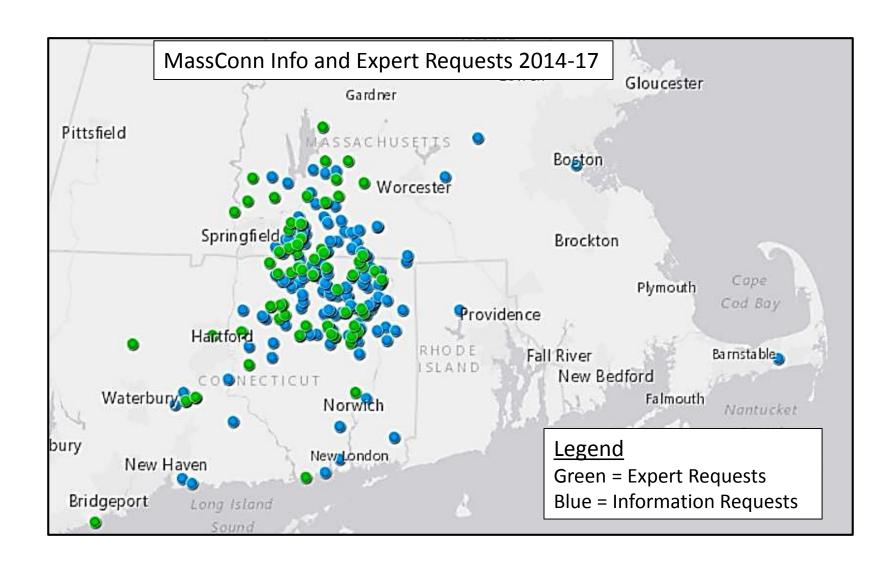
- Engaging landowners owning ~3,000 acres
- 40 parcel visits conducted by 6 trained consulting foresters
- Individual support for a dozen owners to apply for cost-share, incorporate climate in plans or practices



**So far: 1,228 acres** 

 Feeding the pipeline: 47 forest resilience info packets to 2016 non-responders

### MassConn Hand-raisers (by mailing address)



### **NEFF 3-year Forest Service grant**

- Complete MassConn outreach with partners (more Checklist forester visits!)
- Identify demo sites in key CT & MA landscapes

#### **OUTCOMES:**

- Prioritize parcels that rank high for TNC Climate Resilience
- Train 25 more CT & MA foresters
- Adaptation assessments on 2500 acres; 50 owners with management plan or added climate component



#### Conclusions

- Families and individuals provide tremendous opportunity for landscape-scale impact.
- We can reach and engage this critical ownership audience –
   even on complex issues like climate.



### How can you address climate resilience?



- Considering forest management on land trust property?
- Interested in planning for climate change on your lands?

#### Tools are Available

- -Parcel-level forest adaptation
- -Climate messaging for owners

To access resources developed for the MassConn Woods RCP, visit:

http://www.forestadaptation.org/massconn

# How do you communicate to your stakeholders about climate change?

The Massachusetts Ecosystem Climate Adaptation Network (Mass ECAN), is a new community of practice for climate adaptation practitioners interested in ecosystem resilience and natural resources conservation in Massachusetts. Learn more and join at massecan.org

Do you have communications or outreach materials (newsletter article, mailing, op-ed, etc.) that discuss climate change and your work that you would like to share and showcase?

Mass ECAN's Communications Expert Work Group, with the Open Space Institute and Land Trust Alliance, are collecting examples of land trust communications products addressing climate change.

Email Melissa Ocana, <a href="mocana@umass.edu">mocana@umass.edu</a>, or provide your email and we'll reach out.

