



Michael Jacobson

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# The state of agroforestry in North America



Penn State **Extension**

# Association for Temperate Agroforestry

To promote the wider adoption of agroforestry by landowners in temperate regions of North America



ASSOCIATION FOR  
AFTA  
TEMPERATE AGROFORESTRY

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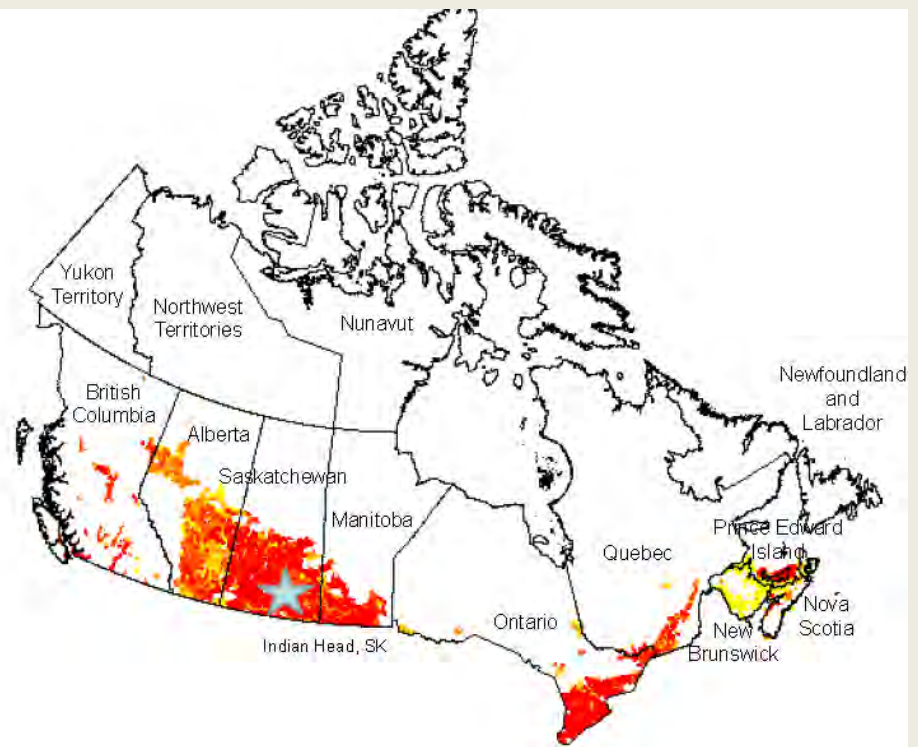
*Charlottetown, Prince Edward Island  
Canada*

13<sup>th</sup> North American  
Agroforestry Conference  
June 19-21, 2013  
[www.2013NAAC.com](http://www.2013NAAC.com)

North American  
Agroforestry Conference 2013  
*Agroforestry - Innovations in Agriculture*

- Established in 1991
  - Voluntary
  - Educational
- North American Agroforestry Conference
- Newsletters
- Website
- Technical and Policy Publications

# Canada: Prairie States Shelterbelt Program



# United States: Chesapeake Bay Riparian Buffer Program





# 600 Million Trees and Growing!

Since 1901  
in western Canada:  
Protecting soil, air and water  
Sequestering CO<sub>2</sub>  
Increasing biodiversity  
Saving energy

For more information:  
1-866-766-2284  
[www.agr.gc.ca/shelterbelt](http://www.agr.gc.ca/shelterbelt)

Trees distributed to farmers through the  
**PFRA Prairie Shelterbelt Program**

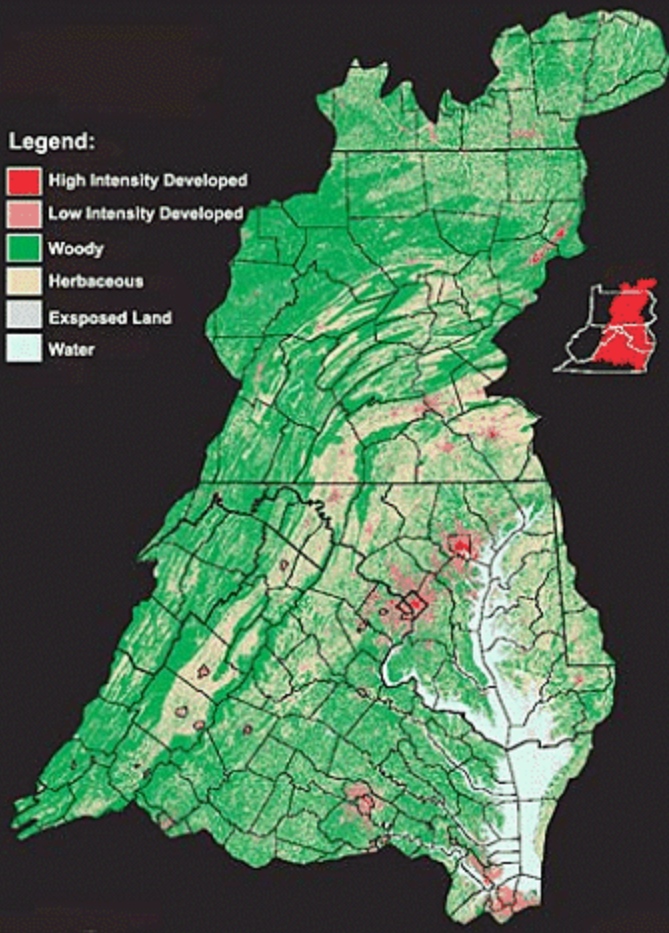




# Chesapeake Bay Watershed

## Legend:

- High Intensity Developed
- Low Intensity Developed
- Woody
- Herbaceous
- Exposed Land
- Water



# Agroforestry is happening out there!

In United States:

FY2008-2010 - \$27 million obligated for “agroforestry”

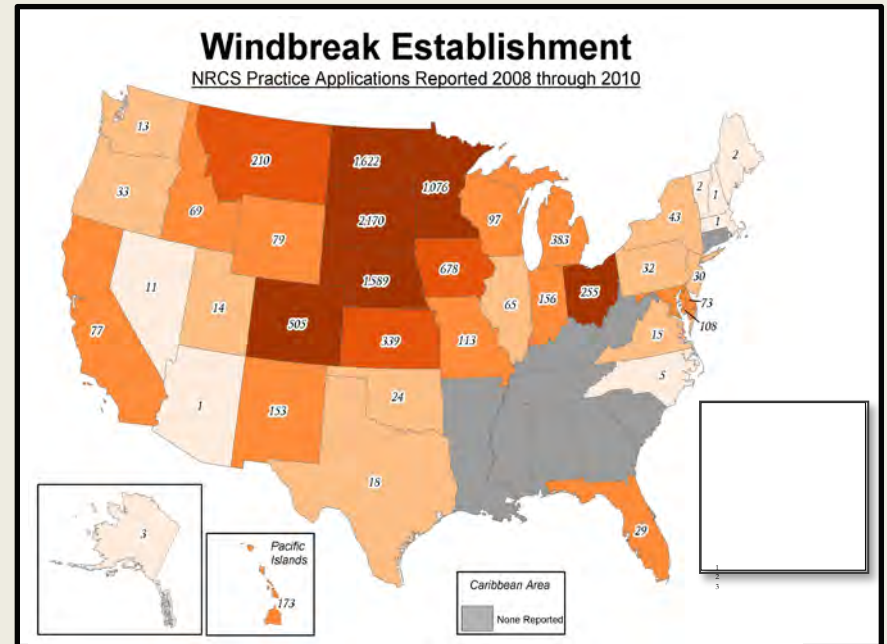
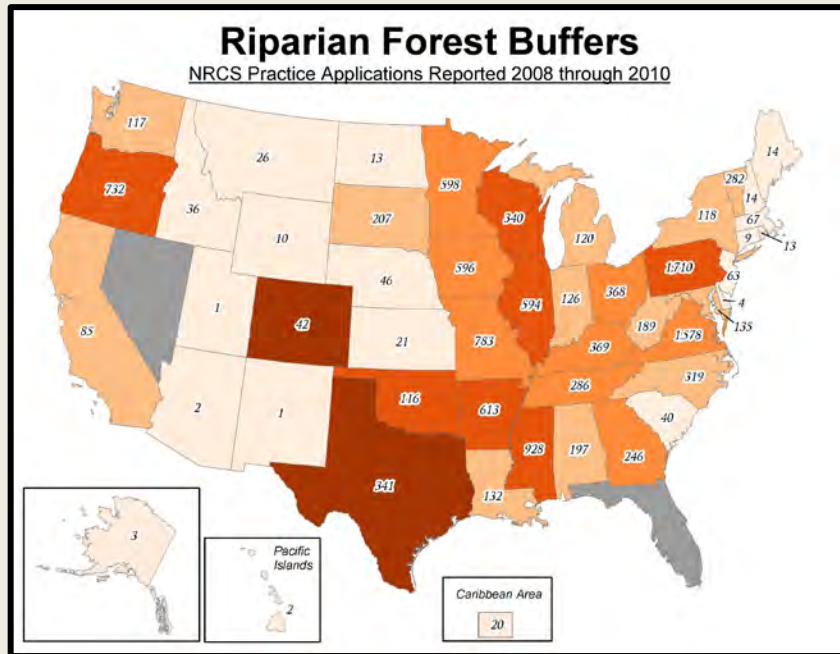
## NRCS Reported Practices

FY 2008, 2009, 2010		
NRCS Conservation Practices	Applied	Number
<i>Alley Cropping (ha)</i>	230	132
<i>Multi-Story Cropping (ha)</i>	95	49
<b><i>Riparian Forest Buffer (ha)</i></b>	<b>51.978</b>	<b>13,036</b>
<i>Silvopasture Establishment (ha)</i>	574	44
<b><i>Windbreak/Shelterbelt Establishment (m)</i></b>	<b>7,270,499</b>	<b>10,867</b>

Source: Performance Results System (PRS) NRCS Summary of Conservation Practice (Applied and reported practices )



# Agroforestry Application and Program Use with the 2008 Farm Bill, by State

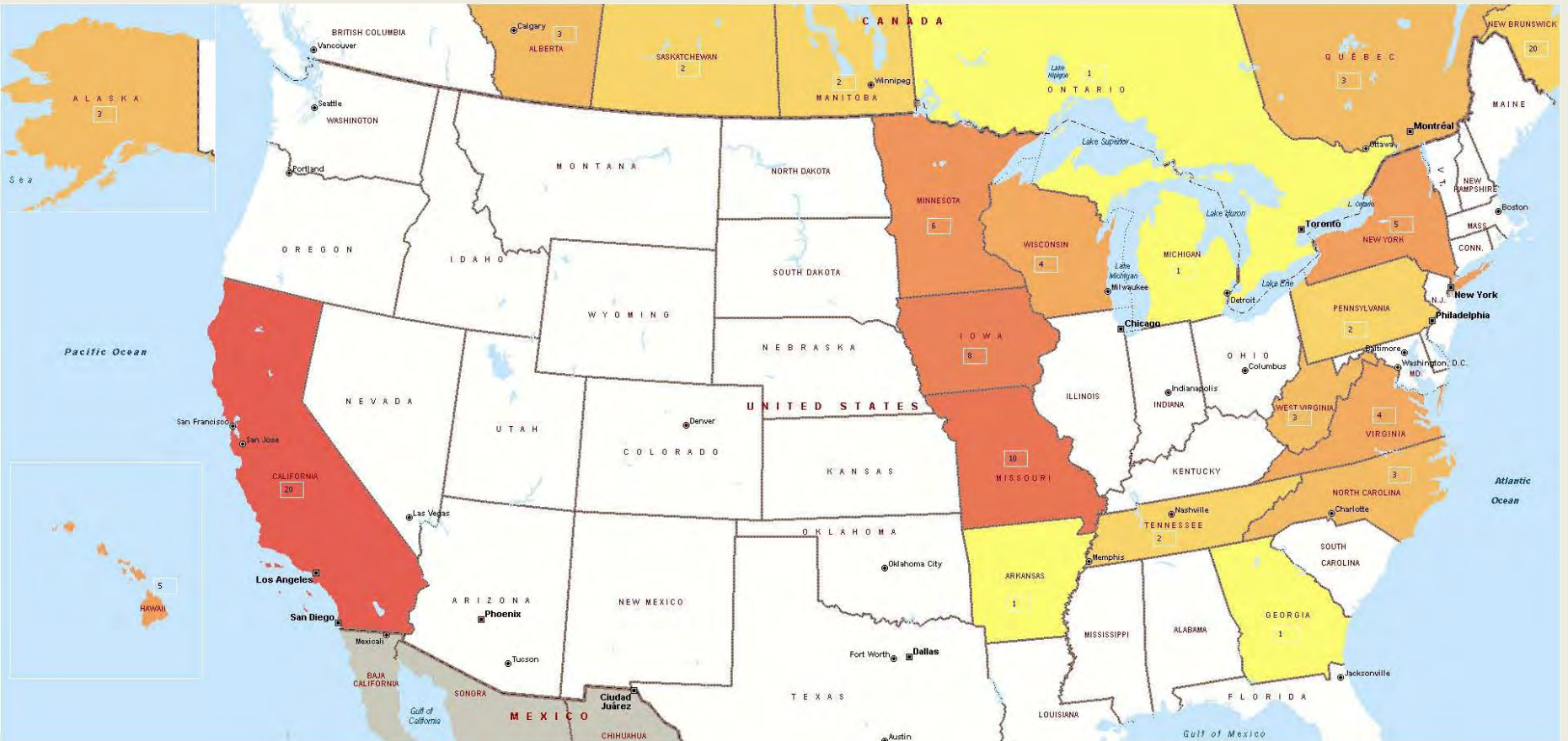


# Survey of practitioners in 2011

- Objectives
  - What is the extent of agroforestry
  - What type of program and practices
  - What can we learn from comparisons across countries, states, provinces and regions?
- Total responses- 67
- USA- 45 (covering 32 states)
- Canada -22 (covering all 10 provinces)

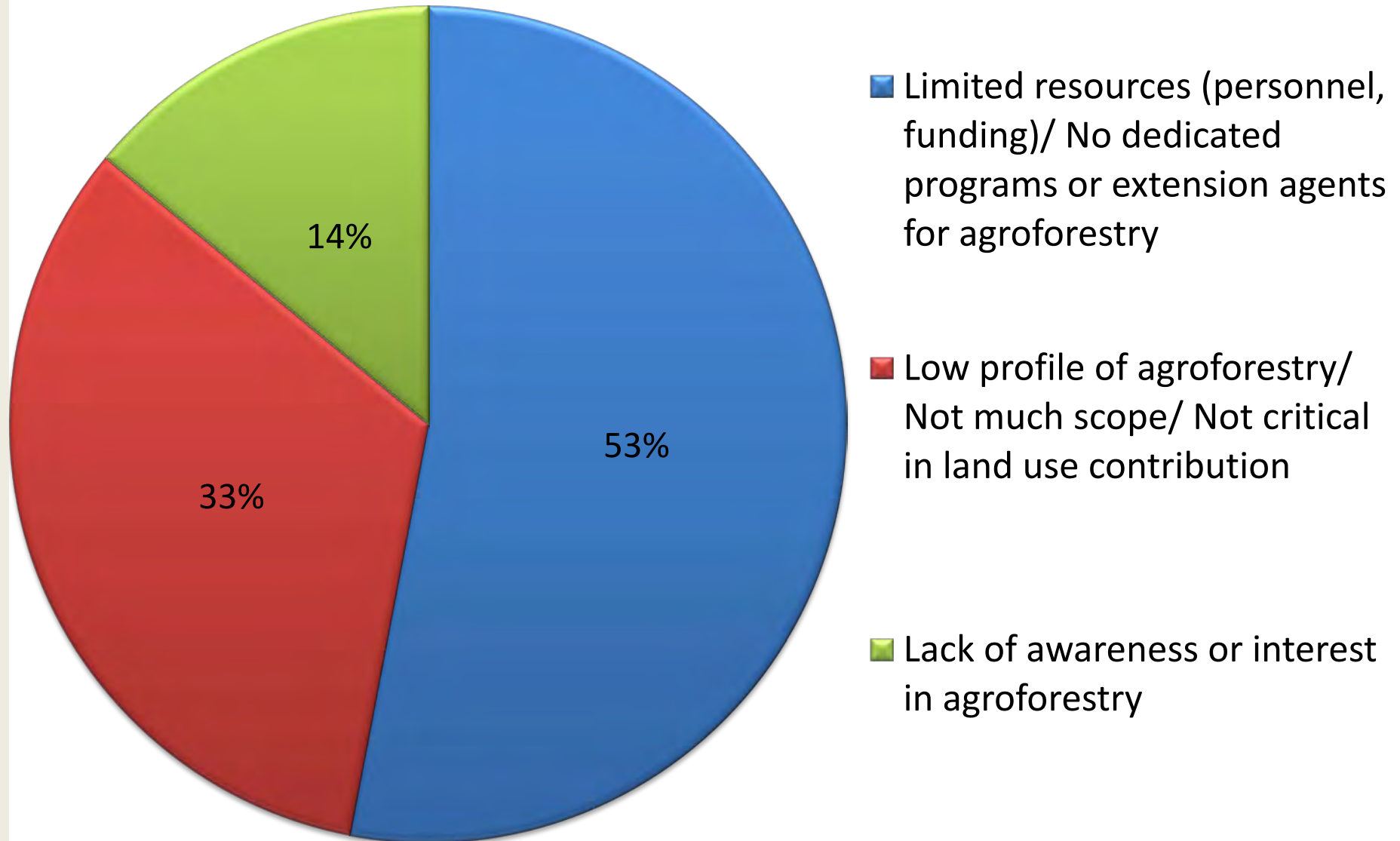


# States/provinces that have current program(s)



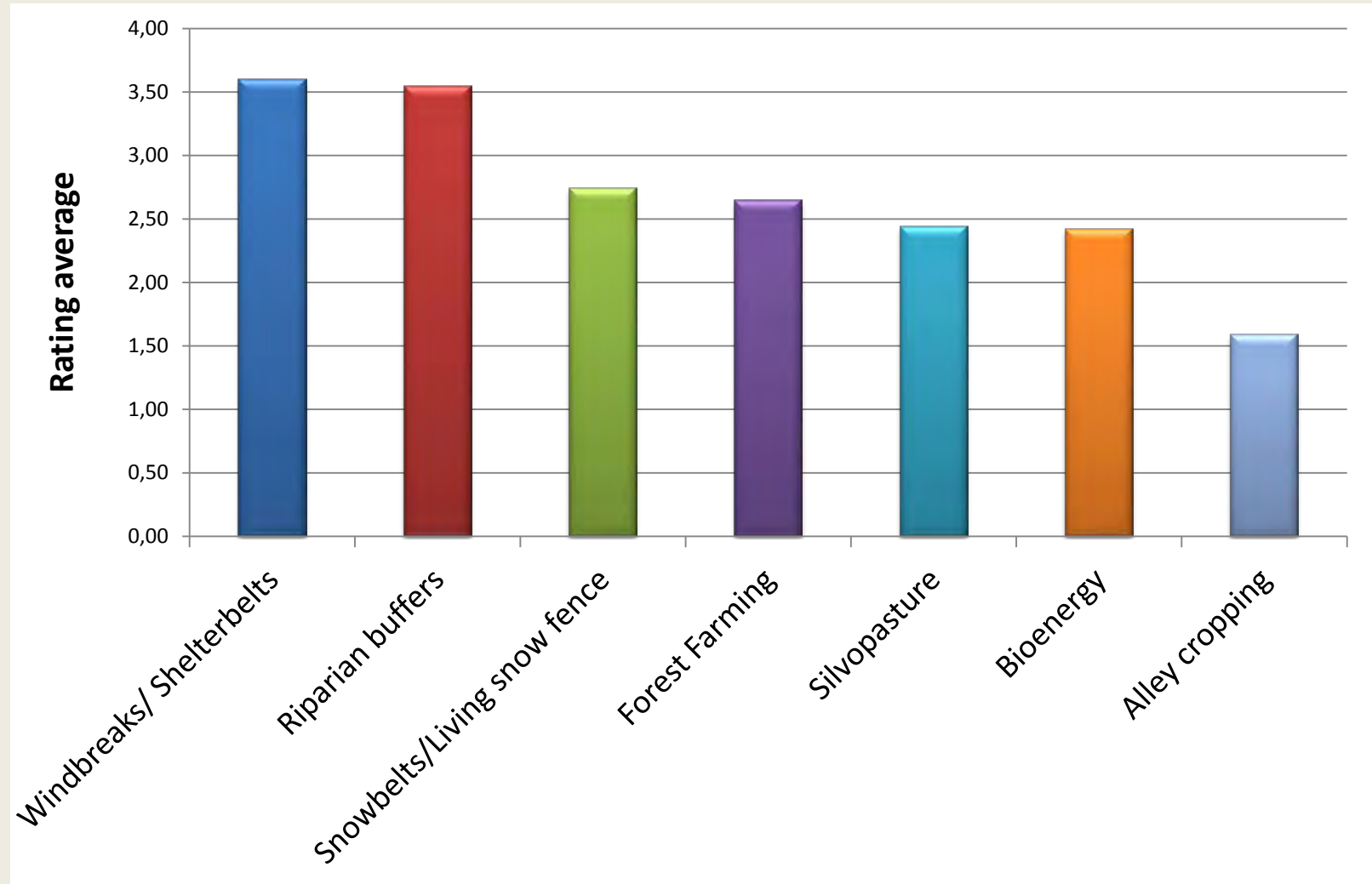
15 states and 6 provinces

# Why no agroforestry program in your state/ province?



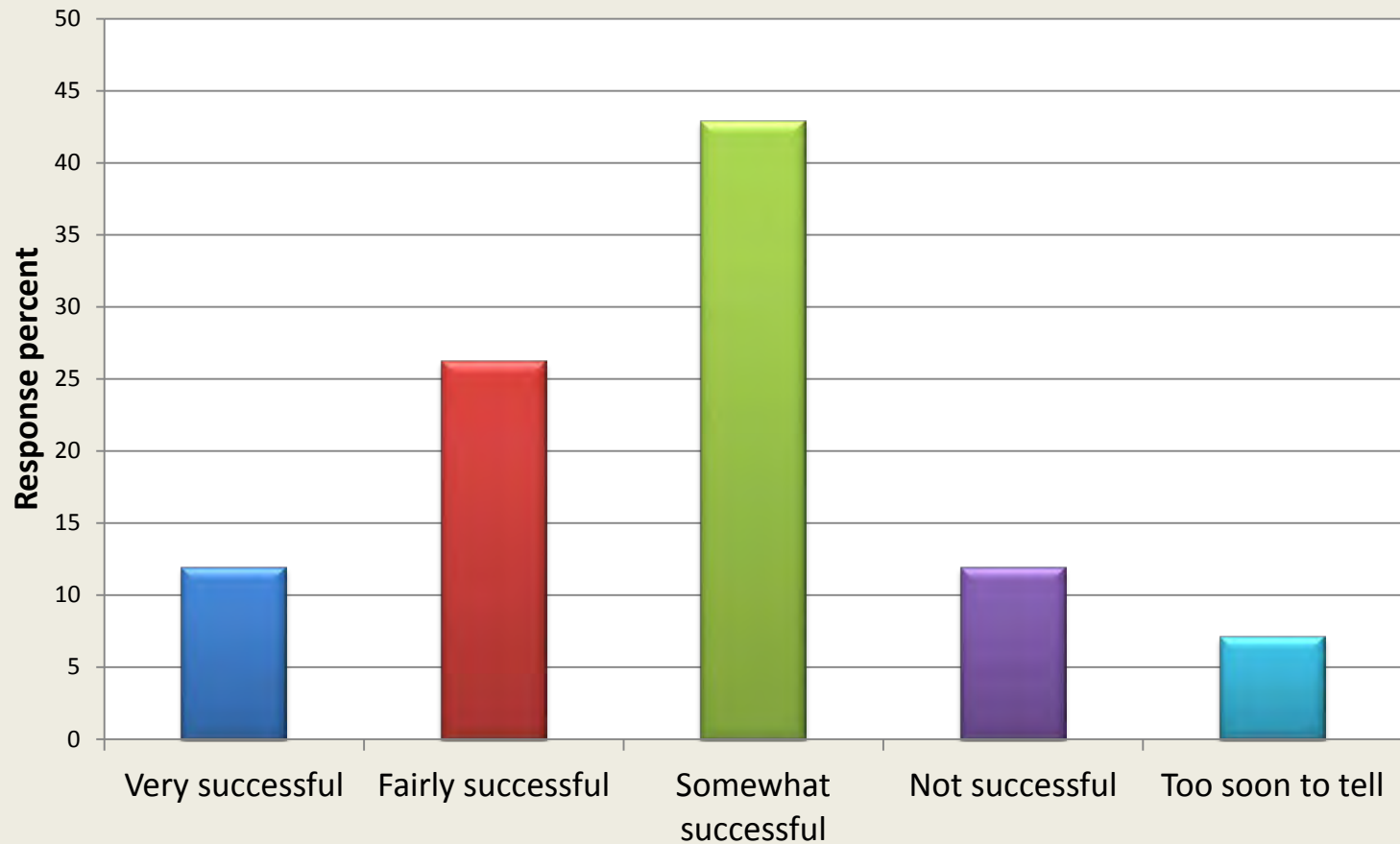


# Most common practices



Three most common agroforestry practices:  
Windbreaks/shelterbelts, riparian buffers, snowbelts

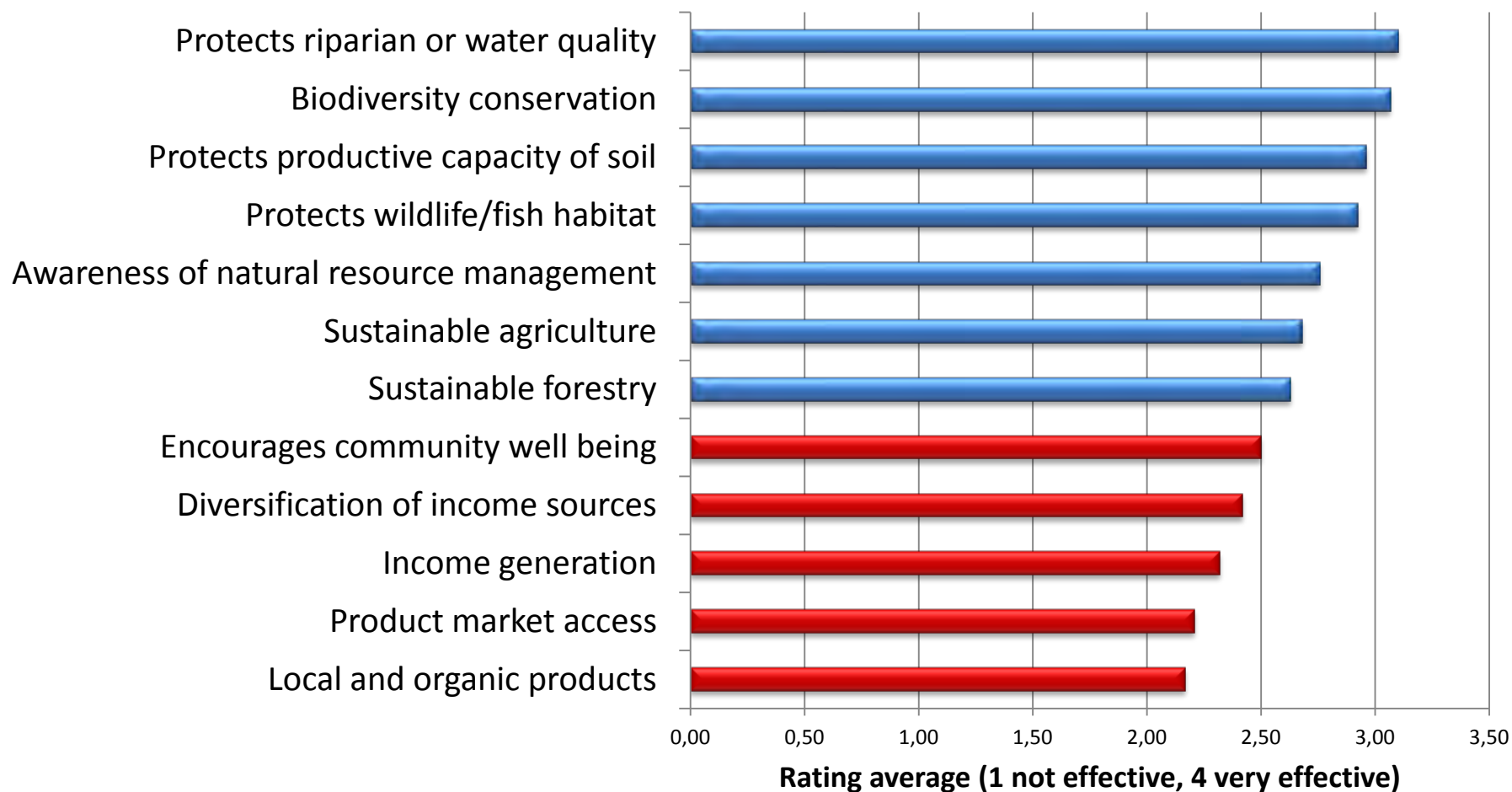
# Success of Programs



- One in ten said there programs were not successful
- In US 25% said very or fairly successful
- In Canada 60% said very or fairly successful

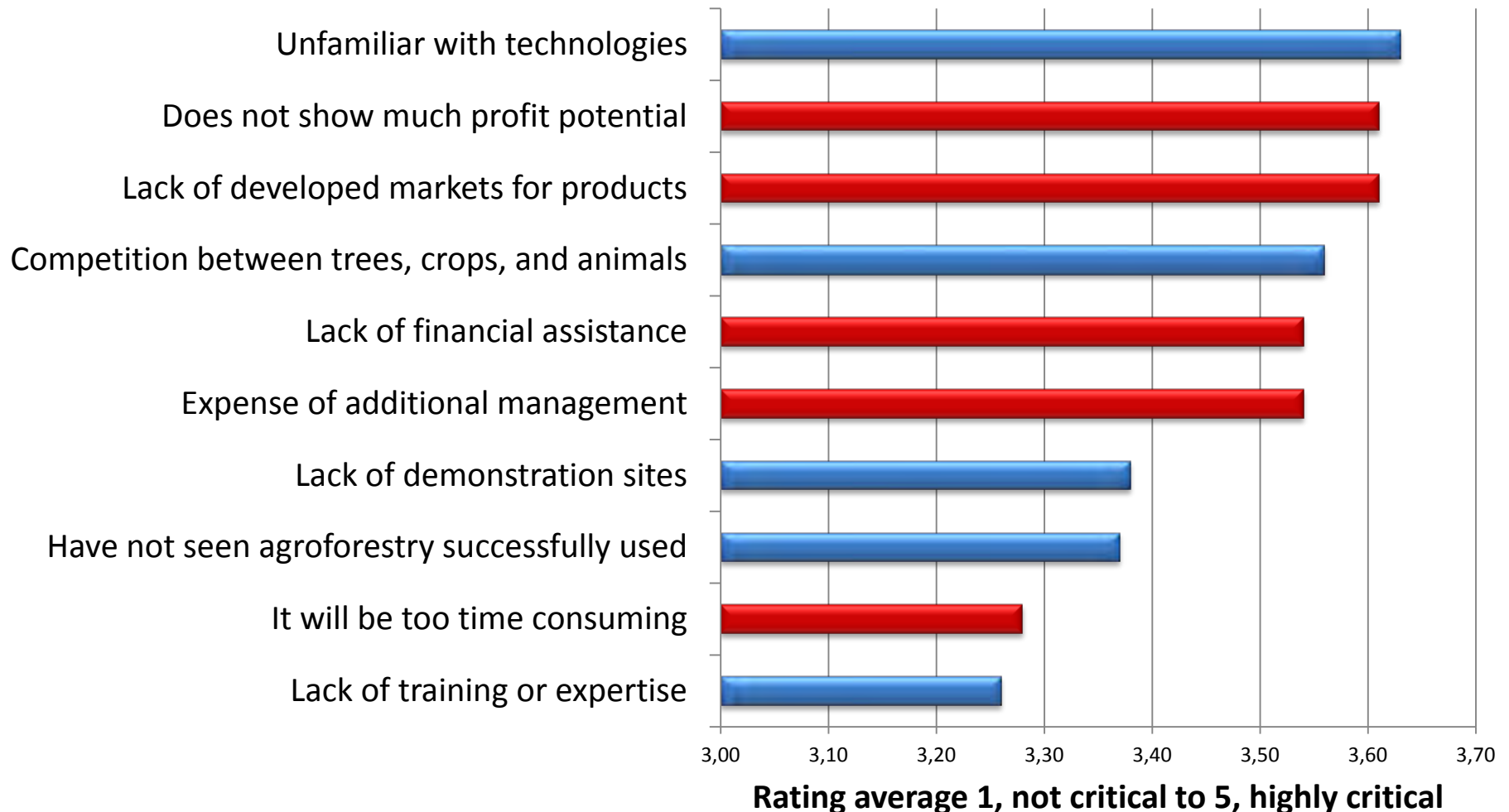


# Effectiveness in meeting objectives



- On average programs overall did provide some degree of effectiveness
- Most effective were environmental type objectives
- The least effective economic related objectives
- Results were similar in ranking for US and Canada

# Problems preventing widespread adoption of the programs by clients





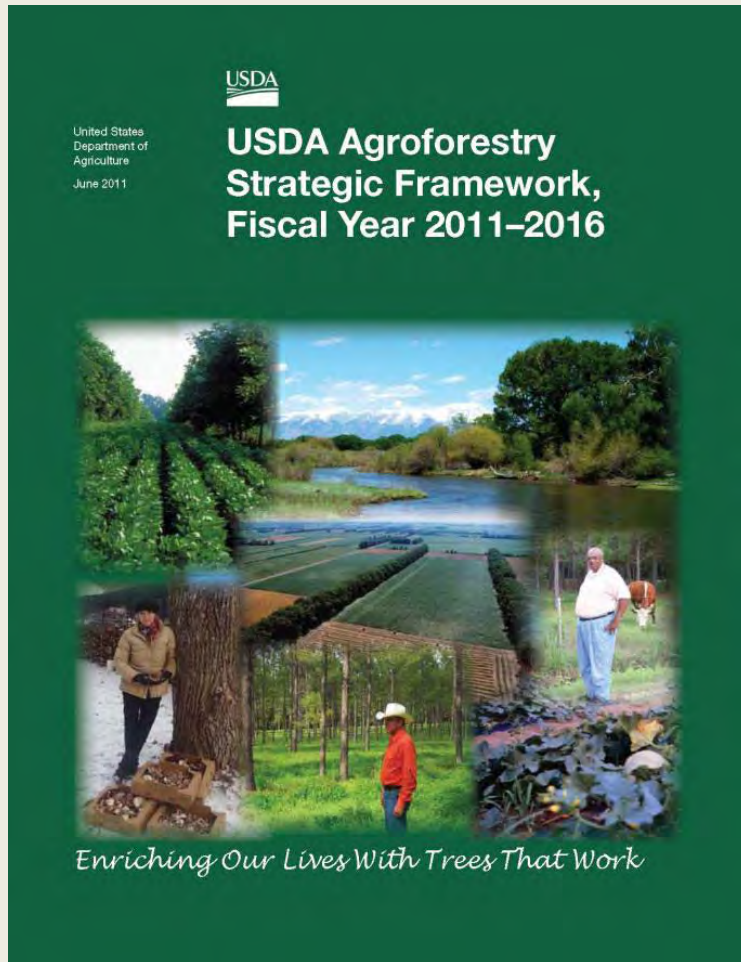
# Key factors

- Appreciate potential benefits
  - Changing role of food security and environment
- Understand complexity and recognizing economic benefits
  - Deal with separation between forestry and agriculture sectors
- Need for resources (personnel and funding)
  - Government recognition
  - Dedicated programs
  - Demonstration, trainings and annual events
- Collaboration (multi-disciplinary and local organizations)

# Survey Summary

- Lots of states missing or don't have programs
- There are good models out there as examples
- Most were average in terms of success
- Environmental issues trump economic in terms of effectiveness
- Economics is major obstacle
- Demonstrations and training is critical to adoption

# There is momentum!



- Agroforestry MOU between USDA and Agriculture and Agri-Food Canada
- Agroforestry as a climate change mitigation and adaption tool in support of the goals of the Global Research Alliance on Agricultural Greenhouse Gases, of which the US and Canada are both members



# How to better promote temperate agroforestry?

- Deliver information and program materials
  - Are we developing the right resources?
- Create collaborative mechanisms
  - Build support for agroforestry
- What about extramural funding?
  - Incentives/subsidies and grants



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