The South Atlantic Landscape Conservation Cooperative’s

Third Thursday Web Forum

What is PINEMAP and how could it help you?

Thursday, November 15, 2012
Third Thursday Web Forum Agenda

- Introductions
- Updates
- Monthly Topic: PINEMAP – What is it and how could it help you?
- Questions & Discussion of Monthly Topic
- Questions & Discussion of SALCC
- Close
Introductions

- Amy Keister, GIS Coordinator
- Ginger Deason, Information Transfer Specialist/Forest Service Liaison
- Heather Dinon Aldridge, Applied Climatologist, State Climate Office of North Carolina
Updates

- Natural resource indicators process officially approved
- Conservation Planning Atlas pilot project started
- US Fish & Wildlife Service, Region 4 GIS Committee meeting last week
- New look coming to web site soon + new projects page

- Any web site member can share news through a blog post

www.southatlanticlcc.org
What is PINEMAP and how could it help you?
Archived Weather Station Data

Maintain 37 weather stations
You can become a dot on the map!

- CoCoRaHS = Community Collaborative Rain, Hail & Snow Network
- Volunteer, grassroots precip network
- Sign-up: www.cocorahs.org
Daily Precipitation (inches x.xx), for the 24 hour period ending ~7:00 am
North Carolina 11/14/2012

www.cocorahs.org
What is PINEMAP??

- Pine Integrated Network: Education, Mitigation, and Adaptation Project

Institutions in PINEMAP domain in blue. Loblolly native range highlighted in green.
Why Climate and Southern Forests?

- Forest system is sensitive to climate:
  - Drought*, cold temps, damage from winter wx, flooding, extreme temp shifts, tropical storms
PINEMAP Audience:

Planted Pine in the Southern US (thousands acres)

- 14,169 Public
- 3,946 Private Corporate (cooperatives)
- 21,373 Private Non-Corporate / NIPF

- Cooperatives: scientists and land managers
- 10% of NIPF owners manage 70% of acres
Project Goals

To create, synthesize, & disseminate knowledge that enables southern forest landowners:

- to harness pine forest productivity to mitigate atmospheric CO$_2$
- to more efficiently utilize fertilizer inputs (e.g. N)
- to adapt forest mgmt approaches to increase resilience & reduce risk due to climate and other factors

Also, climate literacy!
Disciplinary Aims Contribute to Broader Integrated Project Goals

- **Aim 1** Monitoring Network
- **Aim 2** Multi-scale Models
- **Aim 3** Genetics
- **Aim 4** Economics, policy, LCA
- **Aim 5** Education
- **Aim 6** Extension
Meet Aim 6: Extension

land-grant → end-users
PINEMAP DSS overview

- Synthesizes PINEMAP research for forest landowners (industry, agency, Extension, etc.)
- Providing management guidance for a changing climate and for year-to-year & interannual climate variability
- Options for novice and advanced users
- Also includes:
  - PINEMAP information
  - Tools (online models, related material, etc.)
  - Tips (how to use and interpret DSS information)
Novice user – follow process

- About the Stand
- What do I want to do

- Establish New stands
- Improve Existing Stand

- Location
- Soil / Weather
- Limitations
- New / Existing
- If Existing - parameters

- Species selection
- Density
- Site Prep
- Soil Fertility
- Rotational Plan

Output:
- Production
- Risk assessment
- Ecosystem Service rates
- Carbon sequestration
- Other

- Density management
- Nutrition Management
- Competition Control

Output:
- Production
- Risk assessment
- Ecosystem Service rates
- Carbon sequestration
- Other
- Economics

Pine Integrated Network: Education, Mitigation, and Adaptation project (PINEMAP) is a Coordinated Agriculture Project funded by the USDA National Institute of Food and Agriculture
Advanced User – can skip around
Questions/Comments

Questions or comments about PINEMAP?

Questions or comments in general about the SALCC, what we’re doing, where we’re going, etc.?
Next Web Forum

- No SALCC Third Thursday Web Forum in December
- Look for the Forum to start back up in January!
  - Landscape Conservation Cooperatives and Climate Science Centers– An Evolving Relationship, Jerry McMahon (Director, SE CSC) and Rua Moredcai (Science Coordinator, SALCC)
  - January 17, 2013 10:00 am EST
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