

### **USDA Climate Hubs**

Diverse landscapes, risks and climate solutions





### Translating climate science into action

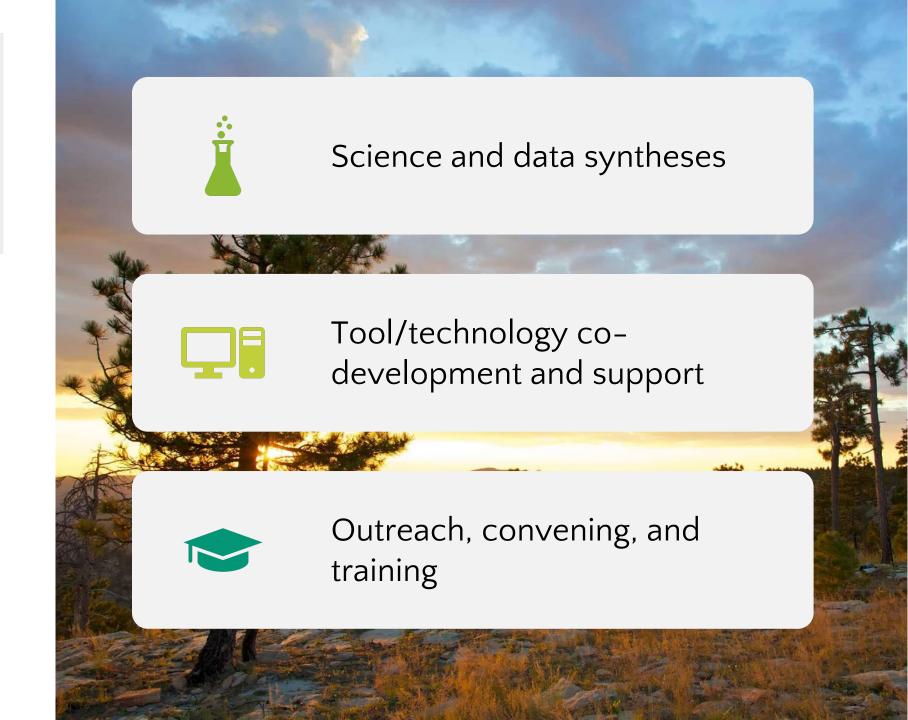




- Mission: Develop and deliver science-based, region-specific information and technologies to agricultural and natural resource managers that enable climateinformed decision-making.
- Vision: Robust and healthy agricultural production and natural resources under increasing climate variability and climate change.

### Goals

- Climate awareness
- Resilient, productive working lands



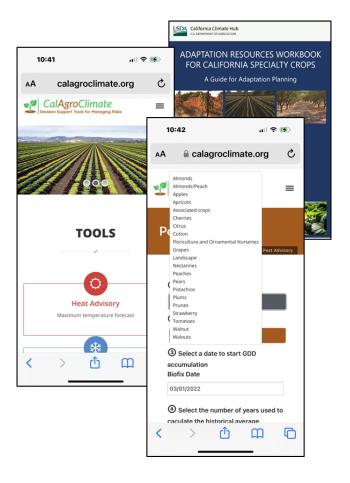
## California Hub – Enabling climate-informed decision making for California's natural and working lands

Climate impacts are far reaching across agriculture and forestry

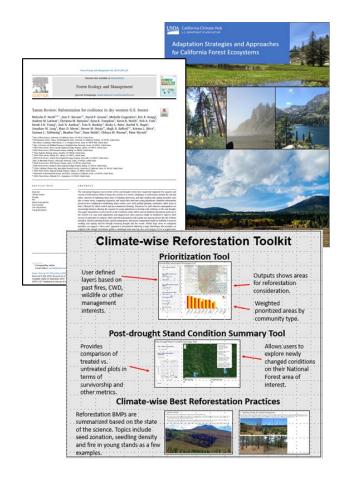




CalAgroClimate supports the largest subnational agricultural economy



Supporting climate-informed forest management and postfire reforestation





# Caribbean Hub – Connecting science and people to reduce climate risks and increase resilience of tropical forests and agriculture



- Climates range from arid grasslands to tropical rainforests
- Risks include hurricanes, drought, sea level rise, and high heat
- Spanish and English-speaking farmers, foresters, and advisors
- High diversity of people, crops, and governance

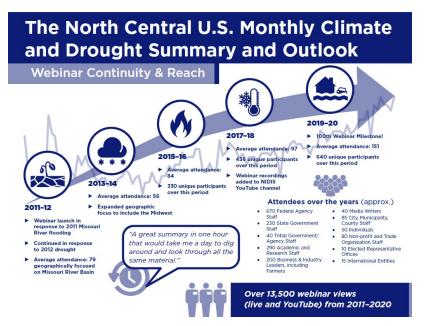


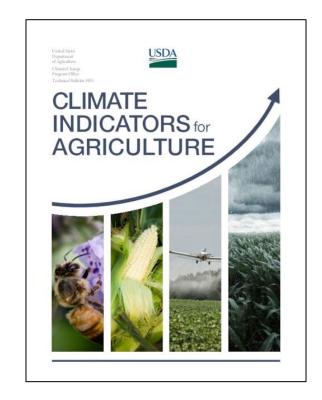






## Midwest Hub – Ag-climate change information/supporting decisions

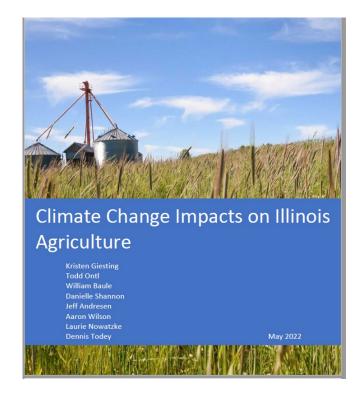






- Developing new information on climate impacts to ag (crops, insects, weeds)
- Describing climate change issues in agriculture
- Wide range of federal/state partners in coproducing and sharing information/products





### Climate Change Impacts on Illinois' Agriculture

### **Specific Products**

- USDA Climate Indicators
- State ag climate change summaries
- Wide range of impact assessments



### Northeast Hub - Advancing climate equity

A focus on facts, understanding, empathy, and action



Tribal Climate Equity Fellow (NRS)

Climate Equity Fellow (ORISE)

**Climate Equity Webinars** 

Art + Climate Equity

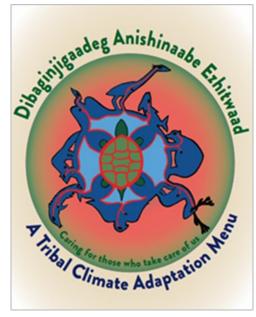
Our goal is to integrate climate equity into all our projects as part of "This is who we we are."



## Northern Forests Hub - Advancing Tribal priorities through climate change adaptation

- Co-developed the Tribal Climate Adaptation Menu (2019)
- Launched 57 adaptation projects at 8 in-person workshops
- Hosted a national webinar series on Climate Change Adaptation and the Tribal Forest Protection Act
- USFS collaboration through Tribal Forest Protection Act and projectlevel planning
- Helping tribal groups around the country create similar products









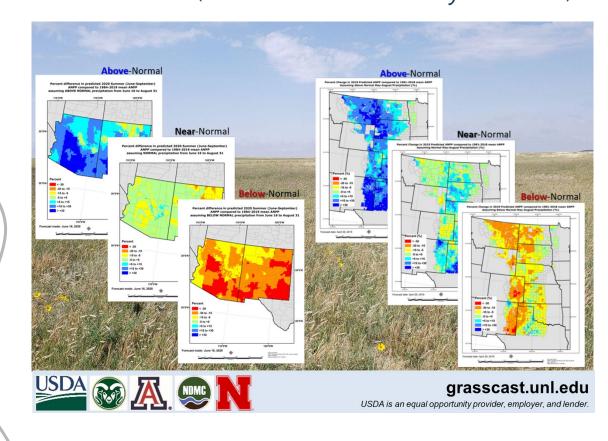


### Northern Plains Hub – building tools with agriculture

FARMERS TRUST <u>OTHER</u> FARMERS: **PEER-TO-PEER LEARNING** 



RANCHERS WANT <u>ACTIONABLE</u> INFO: **GRASS-CAST** (Grassland Productivity Forecast)

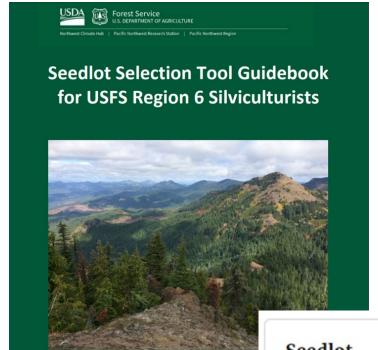


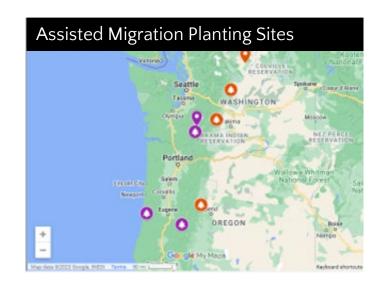


## **Northwest Climate Hub** – Facilitating climate-informed reforestation with the Seedlot Selection Tool



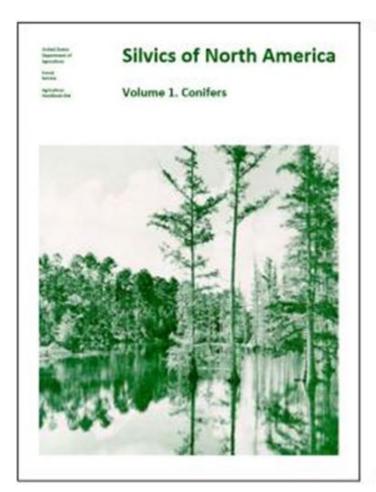




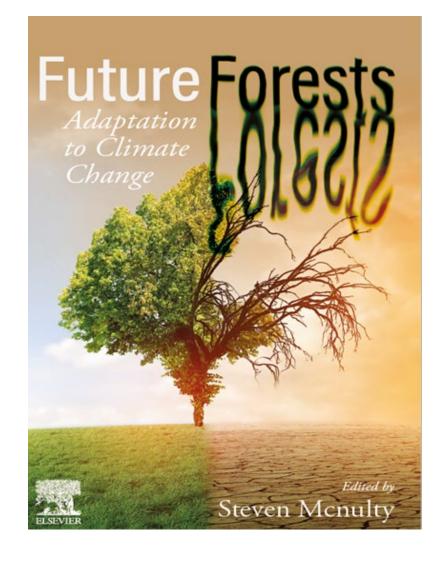




## Southeast Hub – Developing actionable forest management resources







### Southwest Hub - Building climate literacy and efficacy

### **CLIMATE CONVERSATIONS**

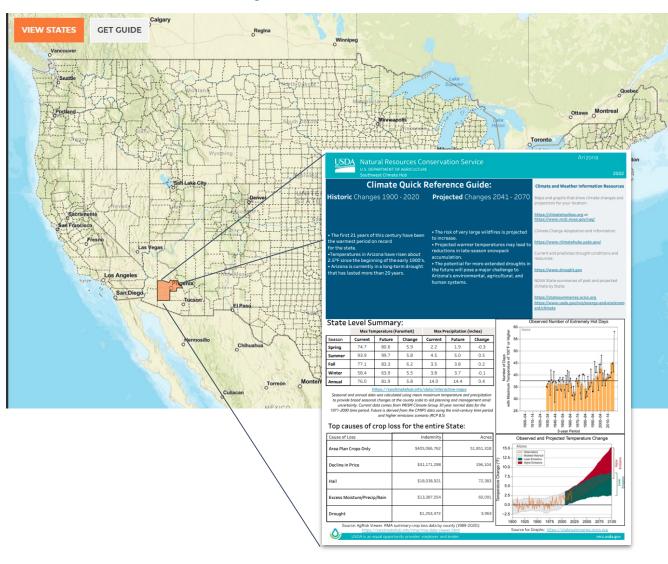




What words come to mind when you think about climate adaptation?

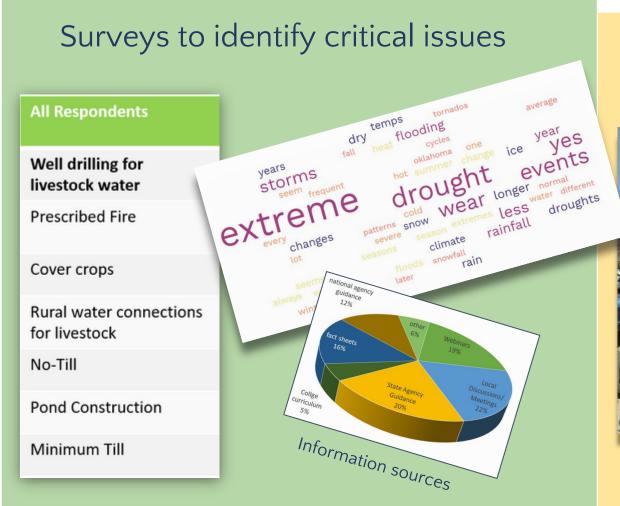


### CLIMATE QUICK REFERENCE GUIDES

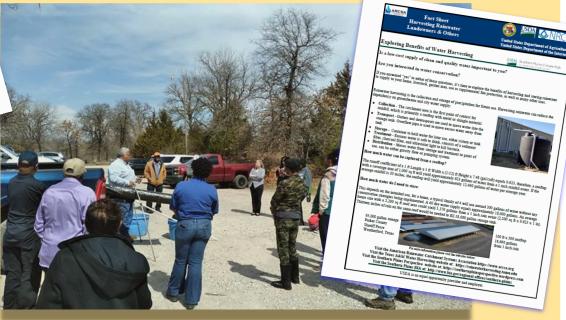




## Southern Plains Hub – Assessing county level needs and engaging underserved farmers and ranchers



Urban gardening and rainwater harvesting



Climate-smart ag. conversations, Luther, OK

### **Contacts**



#### California

Steven Ostoja steven.ostoja@usda.gov

### Caribbean

Nora Alvarez (Acting) nora.l.alvarezberrios@usda.gov

#### **Midwest**

Dennis Todey dennis.todey@usda.gov

### Northeast

Lindsey Rustad (Acting) lindsey.rustad@usda.gov

#### **Northern Forests**

Maria Janowiak (Acting) maria.janowiak@usda.gov

#### **Northern Plains**

Dannele Peck dannele.peck@usda.gov

#### Northwest

Jessica Halofsky jessica.halofsky@usda.gov

### **Southeast**

Steve McNulty steven.mcnulty@usda.gov

### **Southern Plains**

Andres Cibils andres.cibils@usda.gov

### Southwest

Emile Elias emile.elias@usda.gov

#### **USDA Climate Hubs Lead**

William Gould - william.a.gould@usda.gov

### **USDA Climate Hubs Coordinator**

Julian Reyes – julian.reyes@usda.gov

