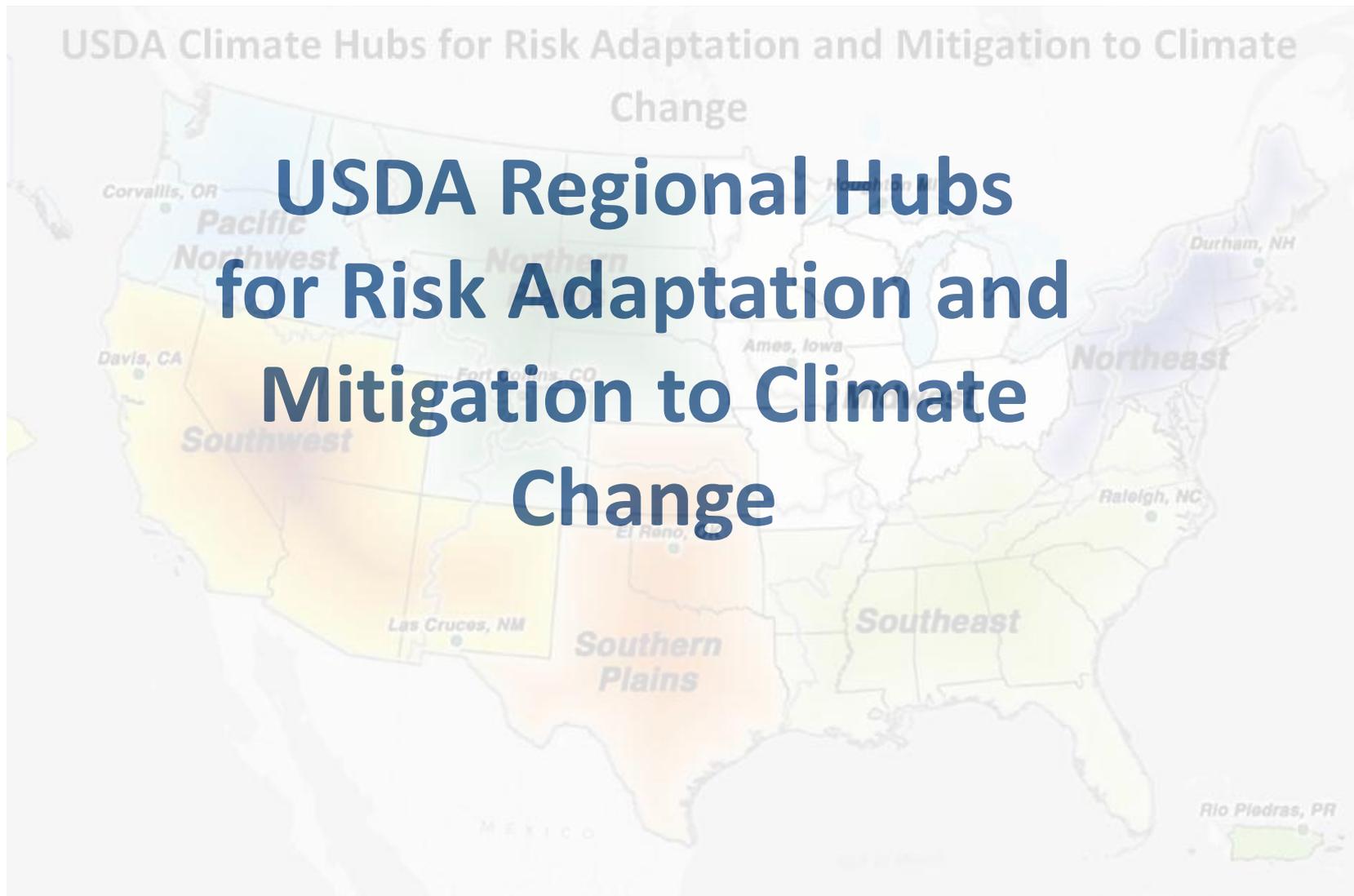
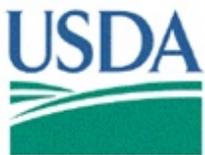


USDA Climate Hubs for Risk Adaptation and Mitigation to Climate Change

USDA Regional Hubs for Risk Adaptation and Mitigation to Climate Change





Today's Topics:

Climate Hub overview

Climate Hub regions & locations

Climate Hub selection process

Interagency cooperation

What's next



What are the Climate Hubs?



Vision: Agricultural production and natural resources maintained and strengthened under increasing climate variability and environmental change

Mission: To develop and deliver science-based, region-specific information and technologies to agricultural and natural resource managers that enable climate-smart decision-making and provide assistance to enable land managers to implement those decisions.



USDA Regional Climate Hubs will provide:

- **Technical Support**
- **Assessments and Forecasts**
- **Outreach and Education**

Conceptual Framework for a USDA Regional Hub

Science and Technology providers:

Federal Partners

NOAA RISA
USGS CSC
etc

USDA Intramural
Research
(ARS/FS/ERS/NRCS)

USDA Extramural
funded Research
(NIFA)

Non-Federal Partners

Agricultural
Experiment
Stations

Many others

Science
Coordination,
Synthesis, and
Tools

Links with other Hubs & National Coordinator

Technology Transfer providers:

Others

State
Agricultural
Extension

USDA Service
Centers

Forest Service
Threat Centers

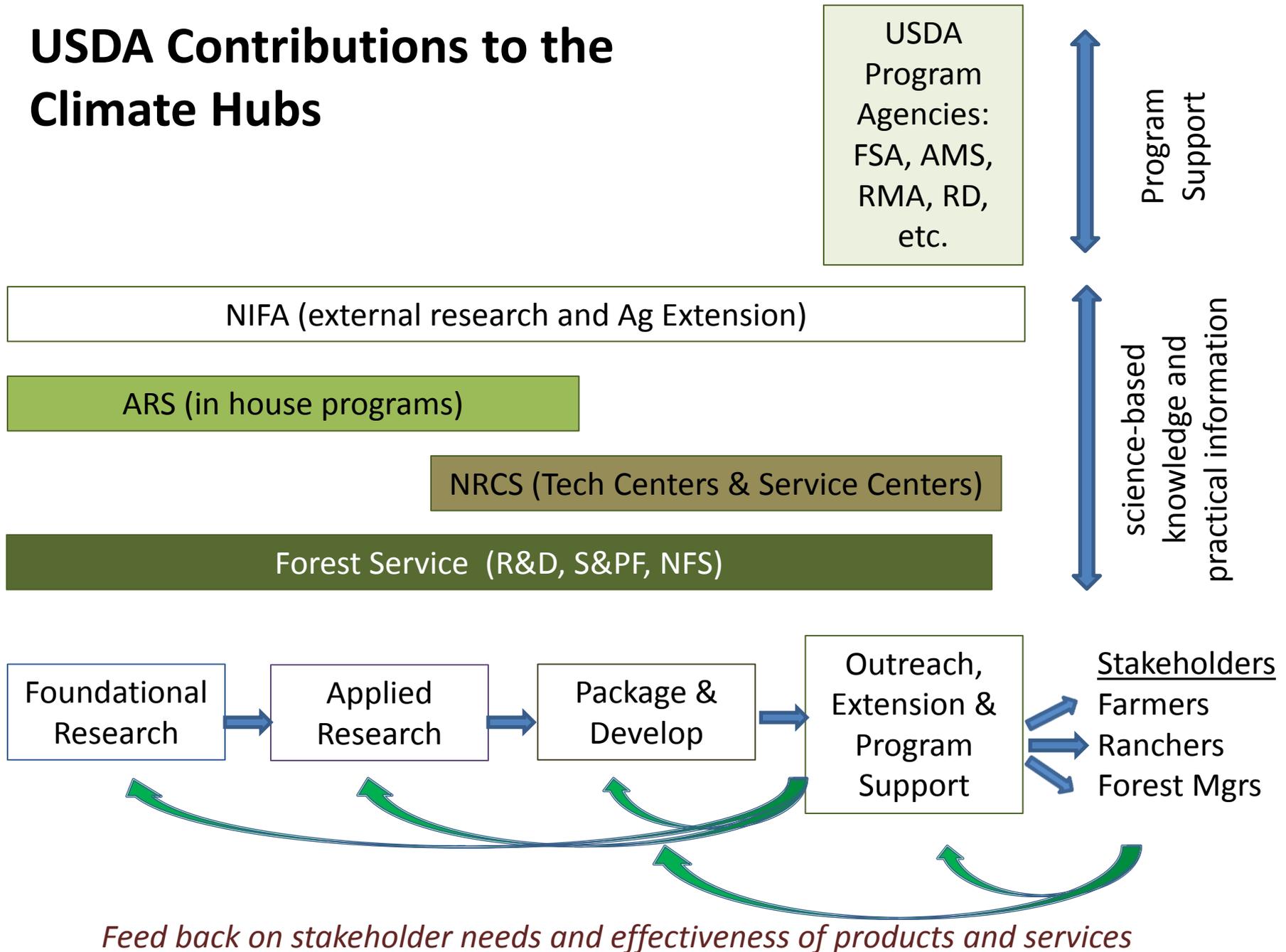
eXtension

Information and tools

Questions and feedback

Stakeholders and Stakeholder group: Farmers / Ranchers / Forest Managers / Tribes / States / Feds / LCCs / Others

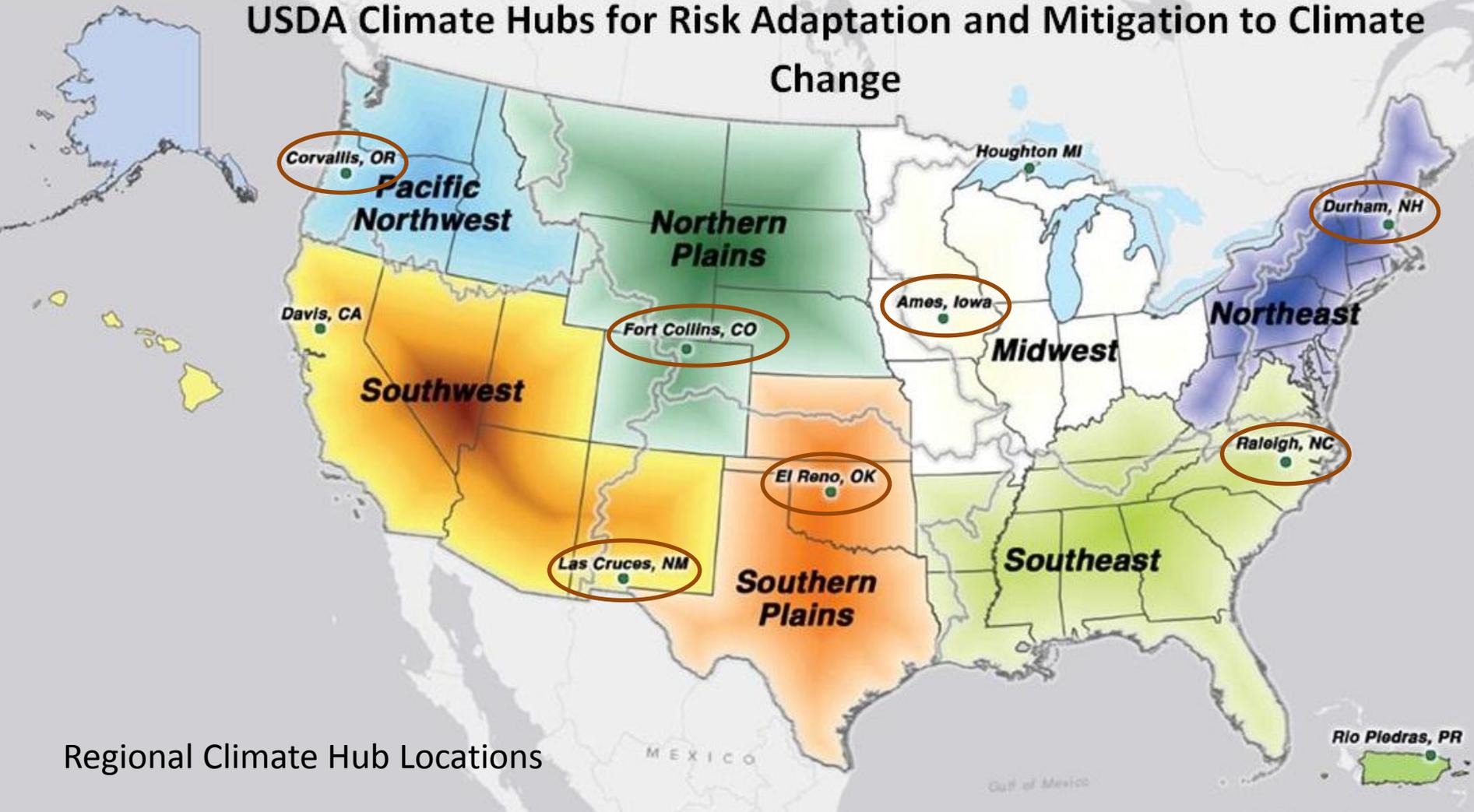
USDA Contributions to the Climate Hubs





Where are the Climate Hubs?

USDA Climate Hubs for Risk Adaptation and Mitigation to Climate Change



Regional Climate Hub Locations

USDA Climate Hubs for Risk Adaptation and Mitigation to Climate Change

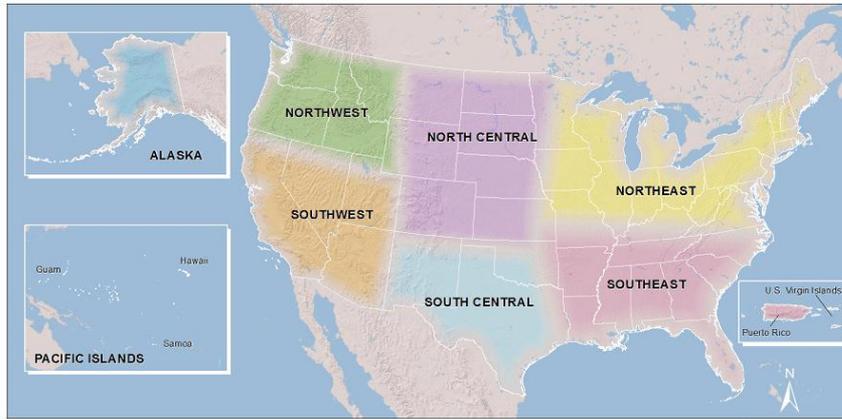


Sub - Hub Locations



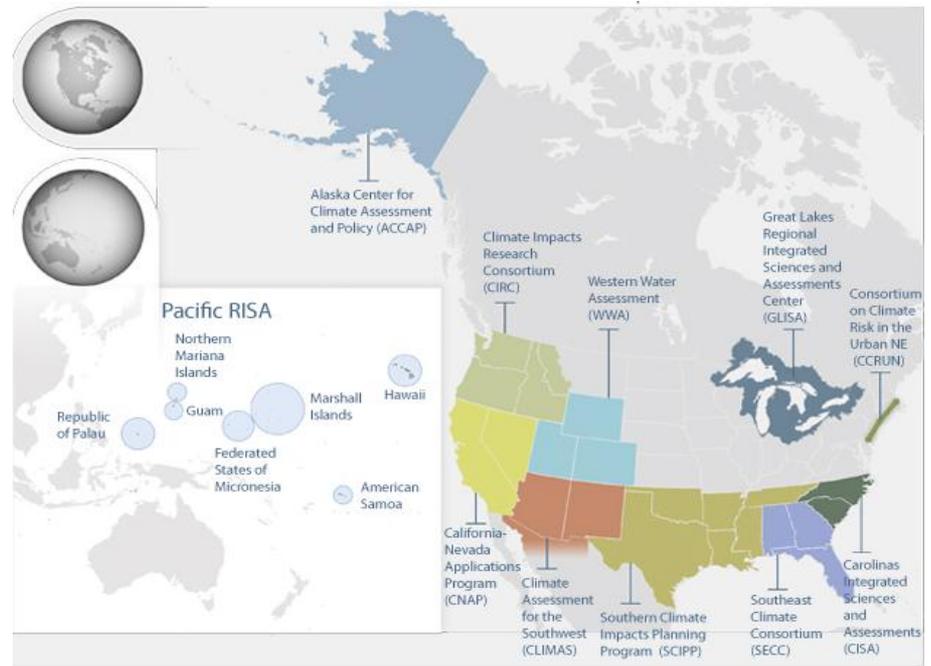
**Coordination with other federal
regional climate efforts**

USGS Climate Science Centers

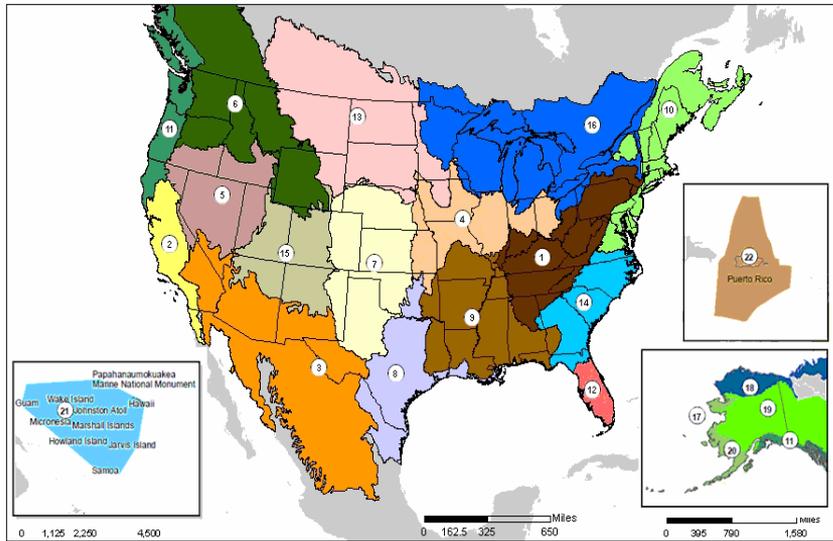


Other federal regional efforts associated with climate change

NOAA Regional Integrated Science and Assessments



FWS Landscape Conservation Cooperatives



- | | | | |
|---|-----------------------------------|-------------------------------------|----------------------|
| 1. Appalachian | 7. Great Plains | 13. Plains and Prairie Potholes | 19. Northwest Boreal |
| 2. California | 8. Gulf Coast Prairie | 14. South Atlantic | 20. Western Alaska |
| 3. Desert | 9. Gulf Coastal Plains and Ozarks | 15. Southern Rockies | 21. Pacific Islands |
| 4. Eastern Tallgrass Prairie and Big Rivers | 10. North Atlantic | 16. Upper Midwest and Great Lakes | 22. Caribbean |
| 5. Great Basin | 11. North Pacific | 17. Aleutian and Bering Sea Islands | Undesignated |
| 6. Great Northern | 12. Peninsular Florida | 18. Arctic | |
- Albers Equal Area Conic NAD83
Produced by FWS, IRFM, Denver, CO
Map Date: 12/4/2011



**What was the process
to choose the Hubs?**



June 2013

- Hubs announced

June-August 2013

- Internal, competitive process among USDA facilities to serve as a Hub

August 21, 2013

- Hub proposals due

September 2013-
January 2014

- Proposals reviewed by climate change experts (USDA, NOAA, CEQ, DOI)

February 5, 2014

- Hub locations announced



Proposals showed overwhelming support:

- **90** Universities
- **14** State Government Departments
- **5** Tribal Communities
- **3** Private Companies
- **34** NGO's
- **58** Partnerships with federal agencies, local offices, or federal initiatives



**Over 200
letters of
support**



What's next for the Hubs?



February-December 2014

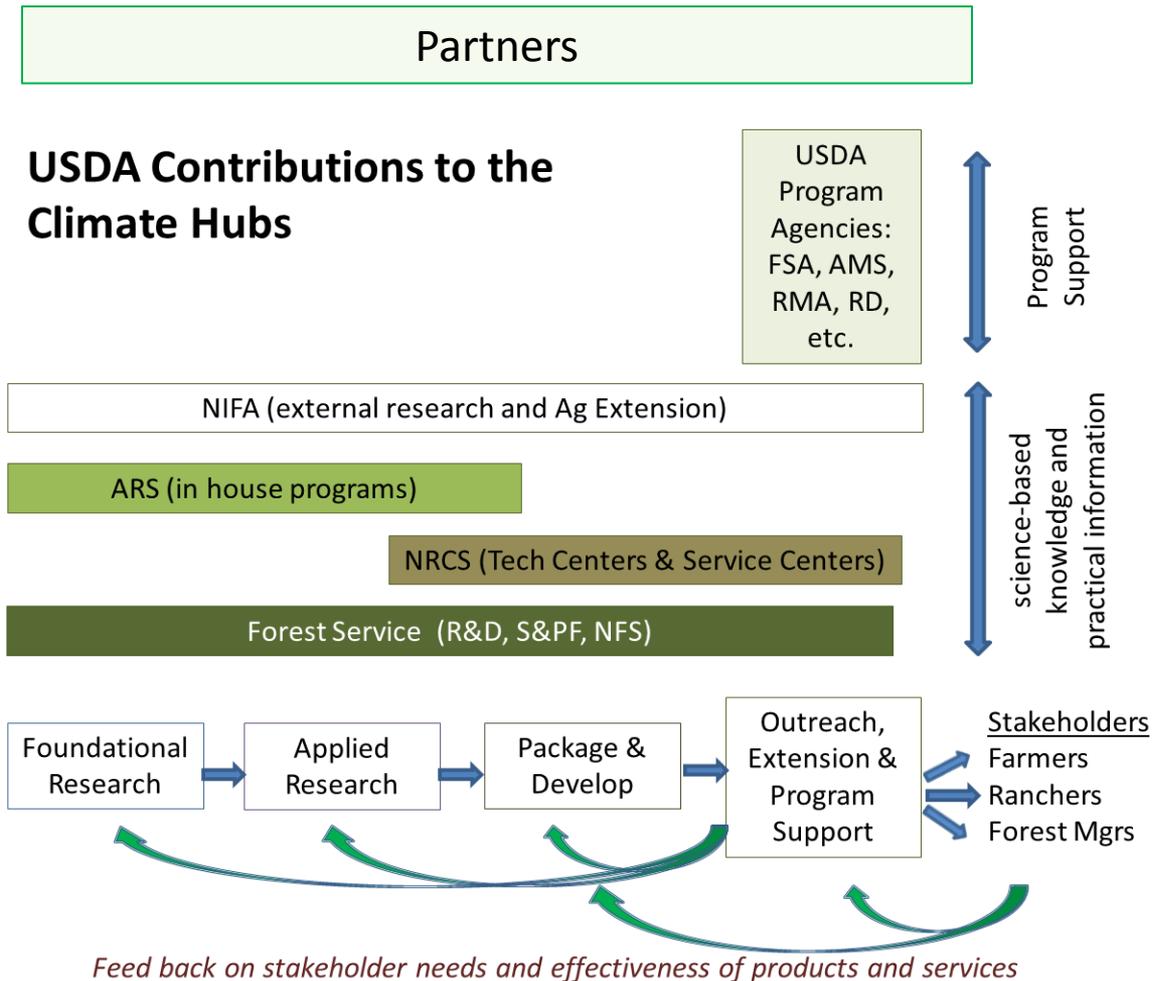
- Assess regional vulnerabilities to ID most pressing issues
- Establish work plans
- Work with partners and stakeholders to access needs and capabilities
- Establish web presence



- Assess regional vulnerabilities to ID most pressing issues

- What is currently most vulnerable to direct and indirect impacts of climate change
- What may be vulnerable in the near future

- Establish work plans

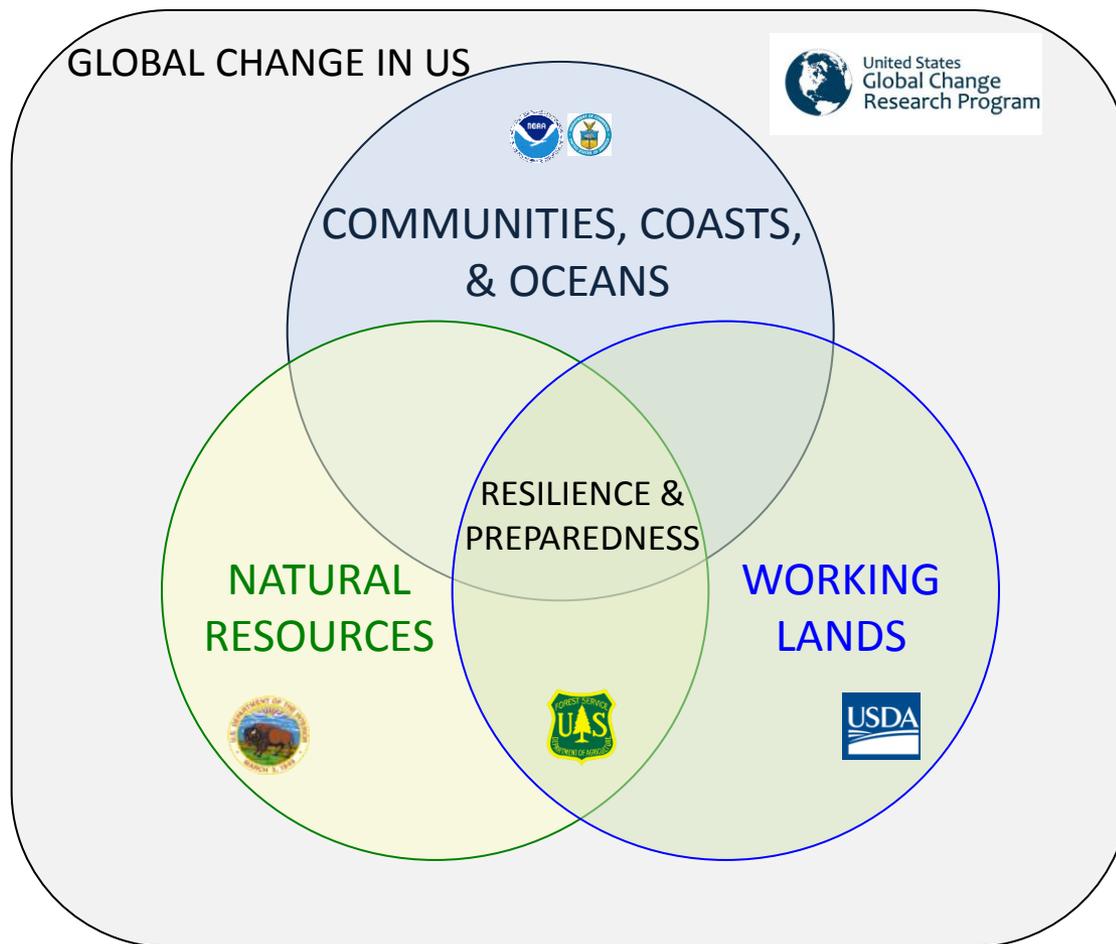




- Work with **partners** and stakeholders to access needs and capabilities

- State Agricultural Experiment Stations
- State Cooperative Extension Programs
- Department of Interior USGS Climate Science Centers
- DoI FWS Landscape Conservation Cooperatives
- NOAA Regional Integrated Sciences and Assessments Program (RISAs)

- Work with **partners** and stakeholders to access needs and capabilities





- Work with partners and **stakeholders** to access needs and capabilities

- Natural Resources – collaborate with CSCs, LCCs and other regional groups
- Agriculture – underrepresented in current regional climate change efforts

- Establish web presence

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 United States Department of Agriculture

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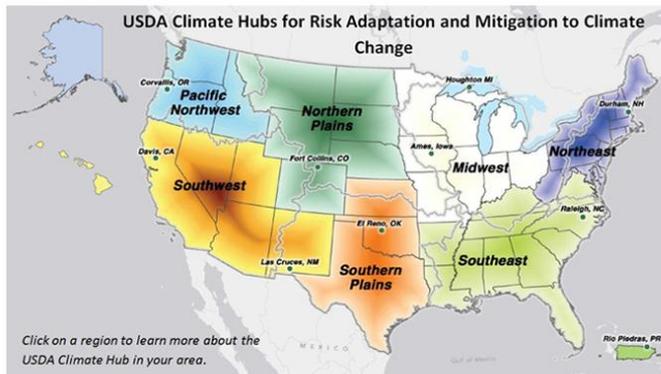
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Related Topics

- > Effects
- > Mitigation
- > Adaptation
- > Estimation Tools
- > Greenhouse Gas Inventory
- > Climate Change Science Plan
- > Climate Change Across USDA
- > USDA Regional Climate Hubs

USDA Regional Climate Hubs



What are USDA's Regional Climate Hubs?

USDA's regional hubs will deliver information to farmers, ranchers and forest landowners to help them adapt to climate change and weather variability. The Hubs will build capacity within USDA to provide information and guidance on technologies and risk management practices at regional and local scales. To learn about how climate change and weather variability are affecting agriculture in your area, click on a region of the map above. For more information on the Climate Hubs, check out the following resources:

- [USDA Regional Hubs for Risk Adaptation and Mitigation to Climate Change Factsheet](#)
- [Climate Hubs Charter](#)
- [To learn more about USDA's approaches to climate challenges, visit the USDA Climate Solutions page.](#)

Climate Hubs in the News

- [Press Release: Secretary Vilsack Announces Climate Hubs Locations \(February 5, 2014\)](#)
- [Press Release: Secretary Vilsack Outlines Vision for Agricultural Solutions to Environmental Challenges \(June 5, 2013\)](#)
- [Remarks as Prepared: Agriculture Secretary Outlines Vision for Agricultural Solutions to Environmental Challenges in Speech to the National Press Club \(June 5, 2013\)](#)

- Consistency over 7 Regional Climate Hubs
- Coordination with other government web sites
- "One stop shopping"
- Legacy web sites



Questions?



Revised USDA Climate Hub Regions



USDA Climate Hubs for Risk Adaptation and Mitigation to Climate Change

