Cooperative Ecosystem Studies Units



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cesu.org

WEAVING PARTNERSHIPS | BUILDING KNOWLEDGE | SUSTAINING HERITAGE

- What is the Cooperative Ecosystem Studies Units Network?
- History
- Program Description
- Example projects
- Future of the CESU Network



What is the CESU Network?

A nationwide consortium of federal agencies, universities, conservation organizations, and other partners working together to support agency missions and informed public trust resource stewardship



What is the CESU Network?

Anthropology to Zoology
coordinated, collaborative, applied
natural and cultural resource issues
multiple scales
ecosystem context



What is the CESU Network?

13 federal agencies
231 universities (56 minority serving institutions)
69 state, tribal, and non-governmental
313 total partners (as of August 2012)

Since 1999, ~8,000 projects over \$800 million (estimated figures)



- **Bureau of Land Management**
- THE REPORT OF TH
- U.S. Fish and Wildlife Service
- U.S. Geological Survey



- **National Park Service**
- Bureau of Reclamation
- **BOEM Bureau of Ocean Energy Management**
- **ONRCS Natural Resources Conservation Service**
 - U.S. Forest Service
 - **Agricultural Research Service**
 - TORA
- National Oceanic and Atmospheric Administration
- National Aeronautics and Space Administration
- U.S. Army Corps of Engineers
- •
- **Department of Defense (Installations & Environment)**



CESU Network Objectives

- to provide timely scientific research, technical assistance, and education services to develop usable knowledge supporting public trust resource stewardship aligned with agency and partner missions;
- to create and maintain effective collaborative partnerships among federal and state agencies, universities, and other nonfederal partners to share resources and expertise;
- to promote/maintain high standards for scientific research, technical assistance, and educational activities and associated project outputs;
- to encourage professional development of federal scientists, technical staff, and managers through substantial involvement in projects;
- to help prepare future conservation professionals through direct involvement with real-life conservation issues and problem solving.

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1999

- Rocky Mountains University of Montana
- Colorado Plateau Northern Arizona University
- North Atlantic Coast University of Rhode Island
- Southern Appalachian Mountains University of Tennessee

1999 **2000**

- Desert Southwest University of Arizona
- Pacific Northwest University of Washington
- South Florida-Caribbean University of Miami
- Great Plains University of Nebraska, Lincoln

1999 2000 **2001**

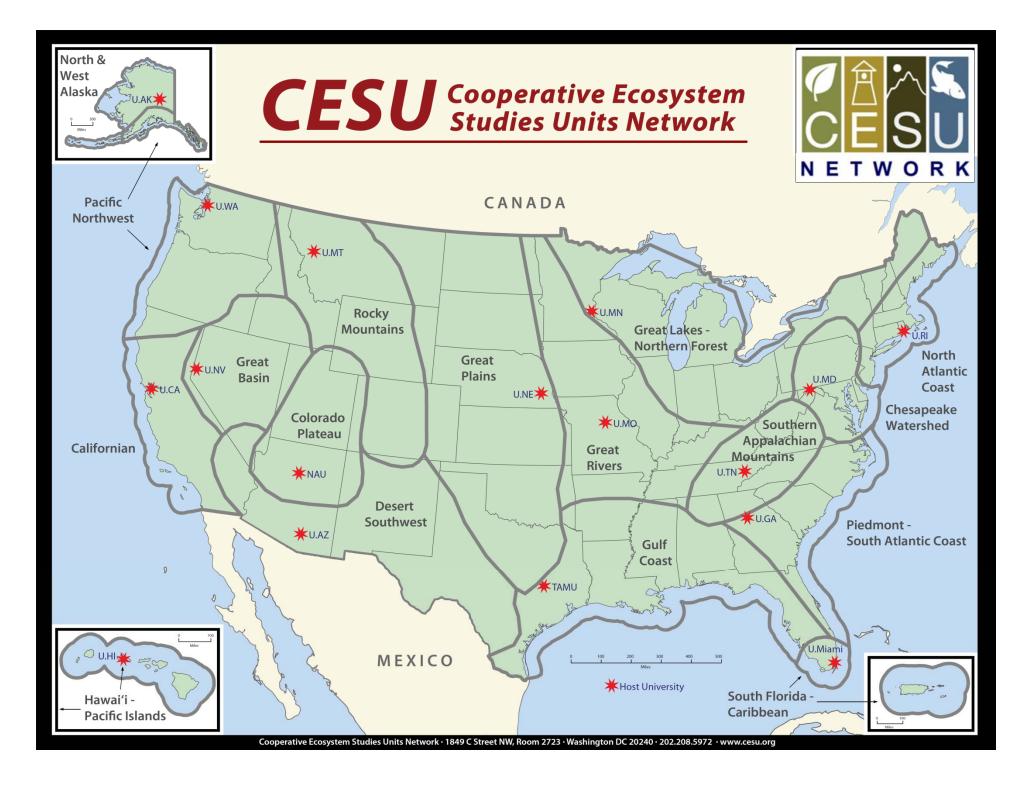
- Chesapeake Watershed University of Maryland
- Great Basin University of Nevada, Reno



- Great Lakes Northern Forest University of Minnesota
- Gulf Coast Texas A&M University



- North & West Alaska University of Alaska
- Piedmont South Atlantic Coast University of Georgia
- Upper and Middle Mississippi Valley (now Great Rivers) – University of Missouri
- Californian University of California, Berkeley
- Hawaii Pacific Islands University of Hawaii

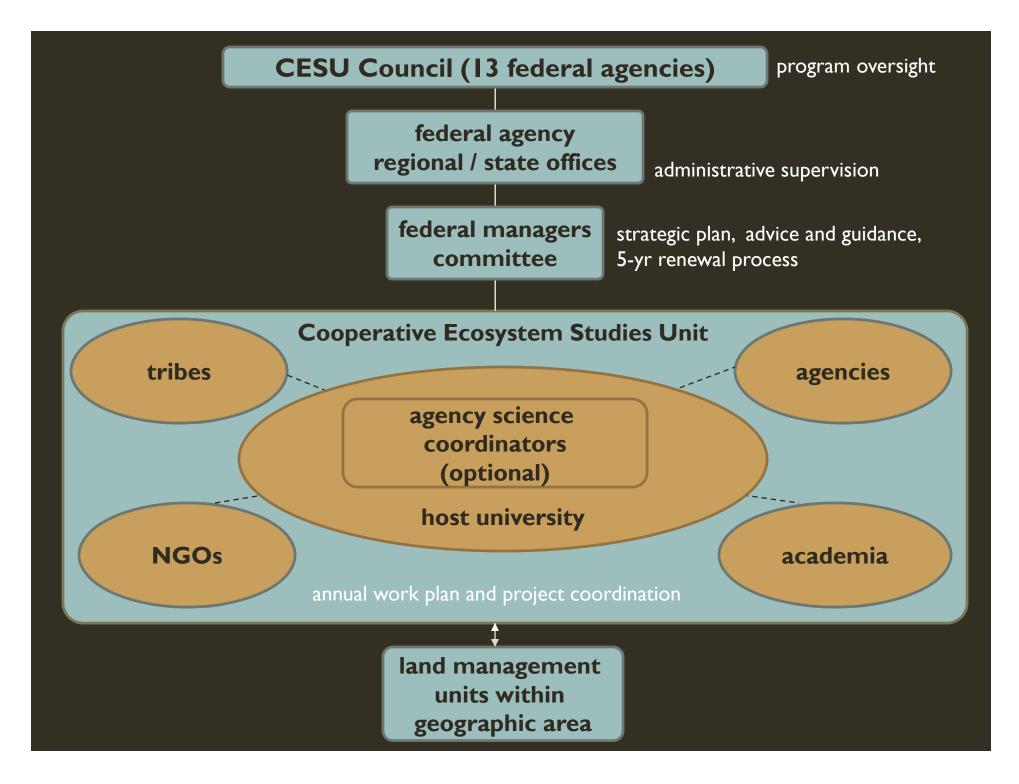


Program Description

established renewable Cooperative/Joint Venture Agreements with 5 year duration
agreements renewed based on mutual consent, self-assessment, federal agency assessment, and independent external review
many operational model variations

Program Description

- host university with administrative support staff
- multiple federal agencies
- partner institutions (at least one minority institution)
- federal managers committee
- role and mission statement
 - strategic plan and annual work plans
- website
- annual partners meeting



National Office Key Initiatives

10-year Program Evaluation and Project Inventory CESU Network Administrative History Strategic Plan Revision Administrative Handbook **Collaborative Science Program Summit** 2012 CESU Network National Meeting (June)





Cooperative Ecosystem Studies Units Network



Projects can be

- Research,
- Education, and/or
- Technical Assistance



Cooperative Ecosystem Studies Units Network



Regional Interagency Climate Change Workshop Series



Salt Marsh Restoration in Chesapeake Bay

NPS photo

denied .



ample Projects

Contaminants Assessment in Southeast Alaska



Example Projects

A Climate Change Education Module on Pacific Island Coral Reefs

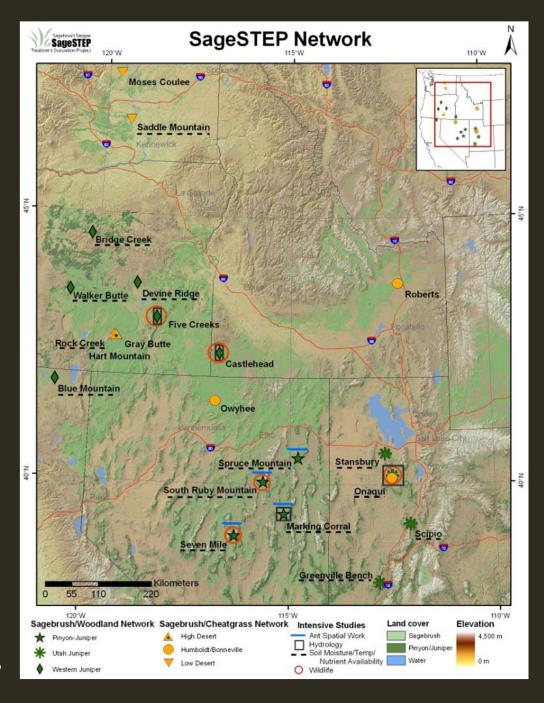
University of Maryland photo

Cooperative Ecosystem Studies Units Network



Example Projects

Sagebrush Steppe Treatment Evaluation Project (Sage STEP)



Sage STEP photo



Exotic Species Control in South Florida

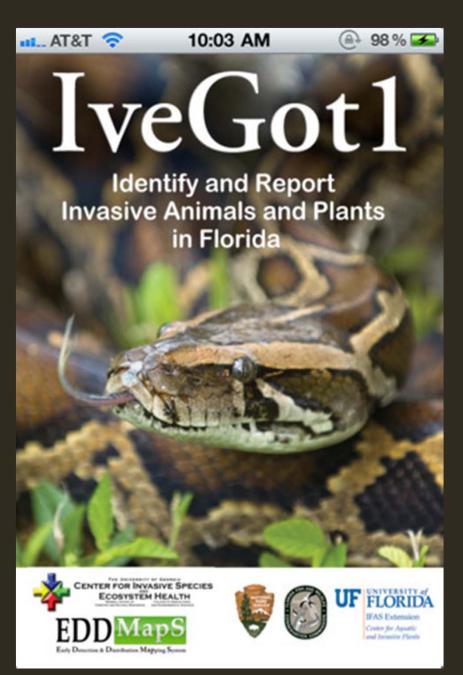
Example Projects

NPS photo



Example Projects

Mobile App to Identify and Track Invasive Exotics in Florida



University of Georgia photo



Archaeological Field School in Hawaii

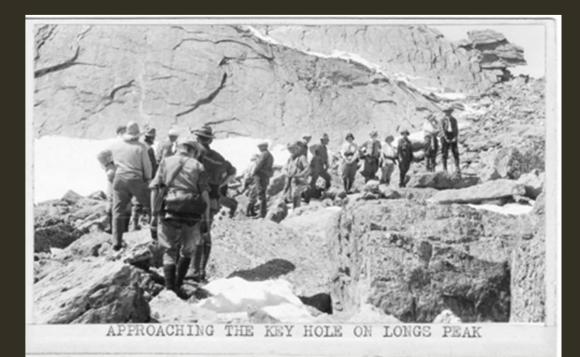


Developing, Testing, and Implementing the Recovery Credit System

Texas A&M University photo



Example Projects



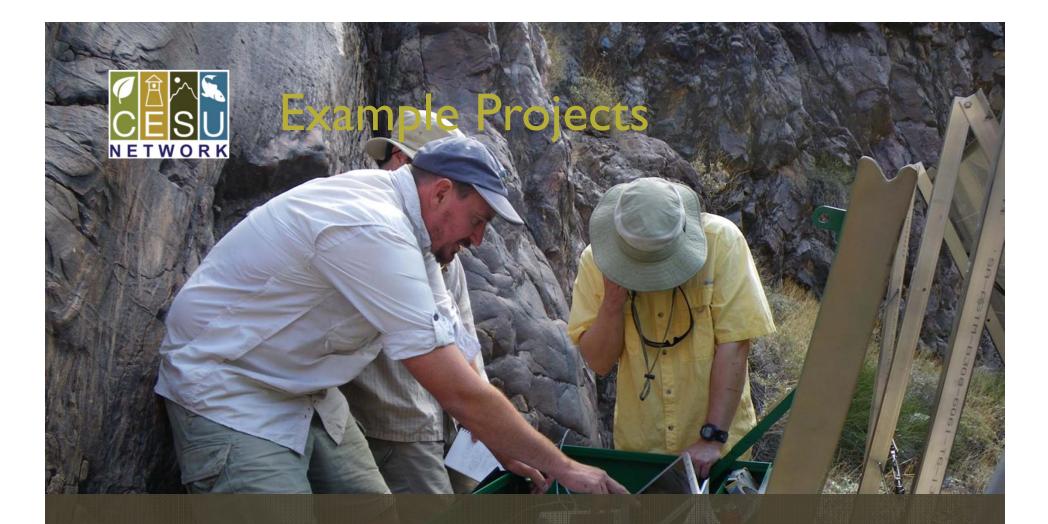
People and Nature on the Mountaintop

A Resource and Impact Study of Longs Peak in Colorado

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Costal Watershed Condition Assessments



Humpback Chub Reintroductions and PIT-tag Technology



NETWORK

Cornell University photo



Remote Sensing Training for the Natural Resources Conservation Service

West Virginia University photo

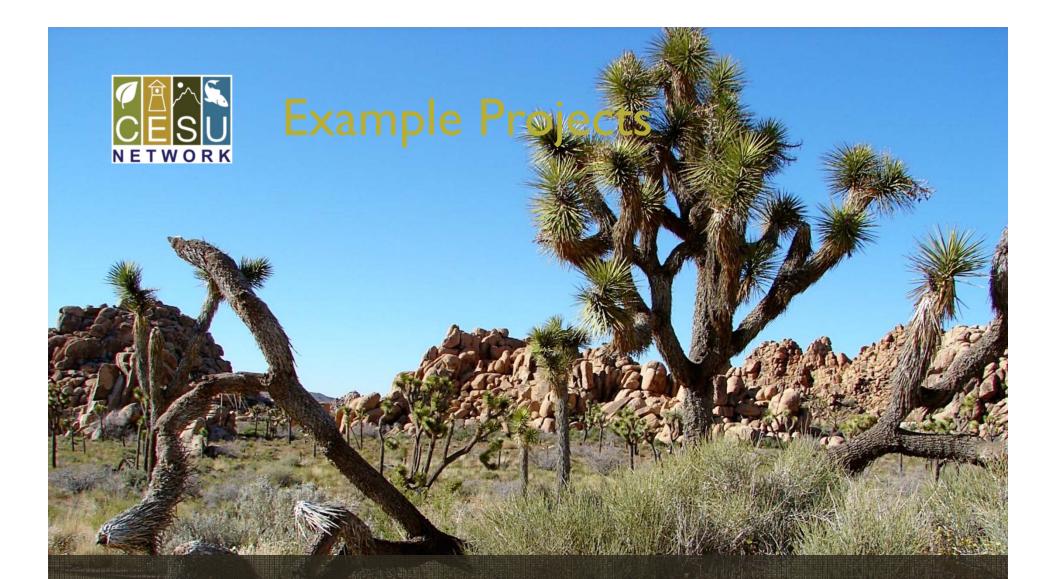


Natural and Cultural Crossroads: An Environmental History of Pecos National Historical Park



Example Projects

Documenting Fire History in National Parks, Monuments and Historic Sites of the Great Plains



Joshua Tree Vegetation Modeling: Predicting Shifts in the Face of Climate Change

University of California, Riverside, photo



Example Projects

Student Internships: Warriors Project







Example Projects

SERPPAS works to prevent encroachment around military lands, encourage compatible resource-use decisions, and improve coordination among regions, states, communities, and military services.



Cooperative Ecosystem Studies Units Network

Future of the **CESU** Network

- adding new federal and nonfederal partners
- expanding participation and scope of the CESU Network with existing network partners
 - sustainability science
 - green engineering and technology
 - renewable/sustainable energy
 - green workforce development
 - international collaboration
- elevating opportunities for capacity building for tomorrow's environmental professionals
 - national office fellowship program
 - system-wide internship program

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