

# USGS Cooperative Fish and Wildlife Research Units

## AREAS OF EXPERTISE



September 2015

**U.S. Geological Survey**  
**Ecosystems Mission Area**  
Anne E. Kinsinger, Associate Director



# Contents

<b>Introduction</b>	3
<b>USGS Mission Area Focal Areas</b>	4
Emerging Diseases and Biosecurity	4
Invasive Species	5
Advanced Technologies	6
Landscape Science	7
Energy and Wildlife	8
Ecosystem Services	9
Ecological Flows	10
<b>Thematic Areas of Expertise</b>	11
Adaptive Management	11
Climate Science	12
Conservation Genetics and Genomics	13
Ecological Stressors	14
Ecosystem Ecology	15
Ecotoxicology	16
Fish and Wildlife Health	17
Habitat and Population Monitoring	18
Harvest Management	19
Human Dimensions	20
Imperiled Species	21
Landscape Ecology	22
Marine Ecology	23
Population Dynamics, Demography, and Modeling	24
Quantitative Science	25
Restoration Ecology	26
Spatial Ecology	27
Species of Management Concern	28
Structured Decision Making	29
Urban Fish and Wildlife Ecology	30
Wetland Science	31
<b>Glossary</b>	32
<b>Contact Information for Unit Scientists</b>	34
<b>Senior Headquarters Unit Staff Directory</b>	38

# Introduction

The Cooperative Fish and Wildlife Research Units were established in 1935 as a collaborative effort among the federal government, state governments, land grant universities, and the Wildlife Management Institute. Currently there are 40 Units in 38 states assigned a mission to (1) deliver actionable science to cooperating agencies and organizations; (2) develop the workforce of the future through applied graduate education; and (3) fulfill the training and technical assistance needs of cooperators. Each Unit is staffed by federal scientists employed by the U.S. Geological Survey, Ecosystems Mission Area, Cooperative Fish and Wildlife Research Unit Program. They receive support from, and work closely with their respective state fish and wildlife agency. The Units also work with the U.S. Fish and Wildlife Service and other agencies and organizations to assist them with their science, education, and workforce development needs. Unit scientists are embedded in the graduate faculty of state land grant universities, and receive graduate faculty appointments, office and laboratory space, and administrative support from the universities. The research agenda for each Unit is approved by the Unit's Coordinating Committee, comprised of representatives from the U.S. Geological Survey, the state fish and wildlife agency, the university, the Wildlife Management Institute, and the U.S. Fish and Wildlife Service.

The purpose of this document is to provide an overview of the thematic science expertise of the Unit system as a whole. This can be used to assist in planning transboundary, multi-state landscape scale research, assist cooperators in finding particular experts to help meet science needs, and potentially for workforce planning. It can also assist in development of Unit-wide networks of expertise, where unit scientists can share information and collaborate on science endeavors. The document begins with focal thematic science areas of interest to the U.S. Geological Survey Ecosystems Mission Area (ECO). In addition to the 40 Units, ECO is comprised of 17 major research science centers, each with satellite field stations networked across the nation. Collectively, the Units and science centers contribute to these focal science themes, and this document may assist in fostering collaborations.

Thematic areas of expertise follow, representing priority science themes derived from planning documents developed by the Association of Fish and Wildlife Agencies, the U.S. Fish and Wildlife Service, and the U.S. Geological Survey. A glossary is provided that describes many of these themes.

Each science theme contains a list of Unit scientists who have expertise in that particular science thrust. A map for each theme provides a spatial view of the distribution of Units with that expertise (states highlighted in blue, with stars indicating if more than one Unit in a state that has separate fishery and wildlife Units has expertise). Contact information is provided alphabetically for each Unit scientist at the end of the document, with email and phone contact, as well as a link to each scientist's web page so the reader can learn more about a given scientist's ongoing and past research.

## USGS Ecosystems Mission Area Focal Areas

### Emerging Diseases and Biosecurity

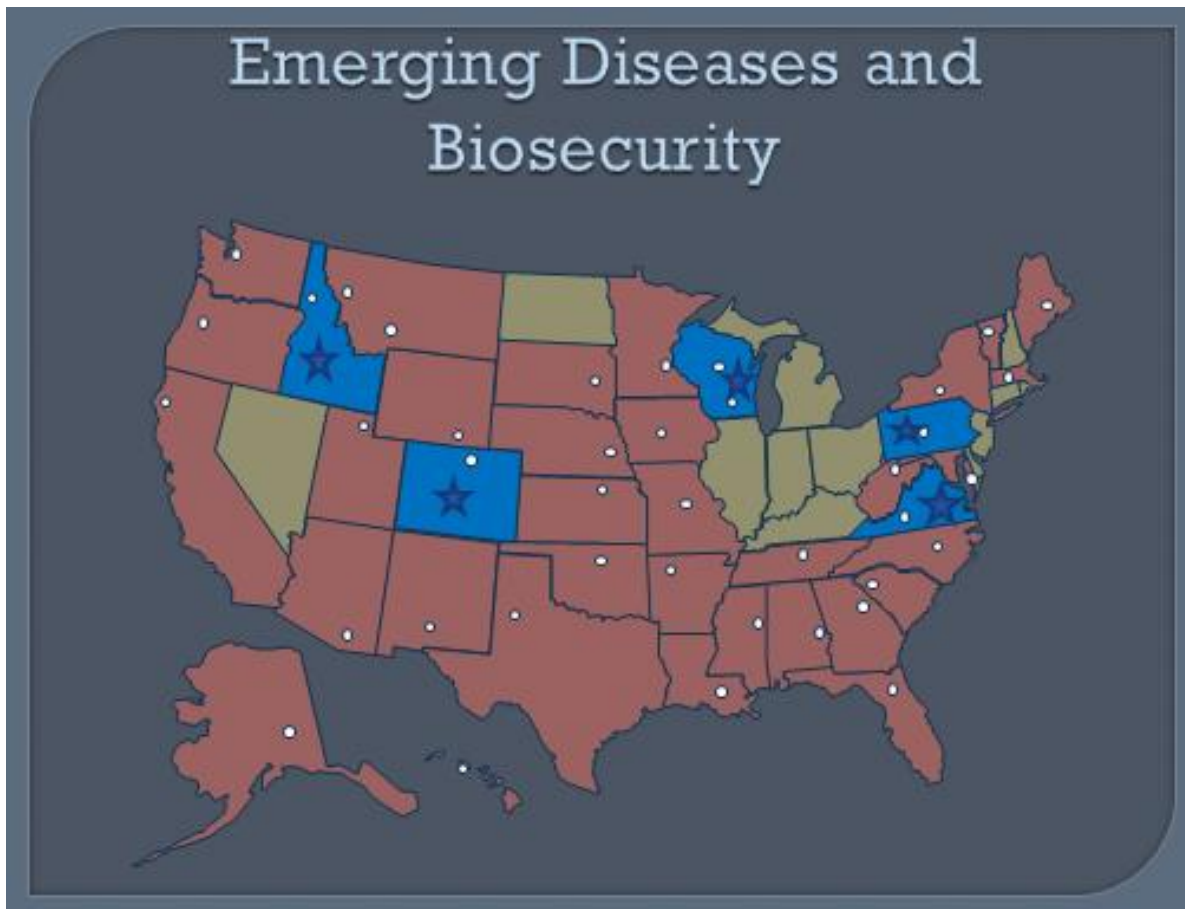
Mevin Hooten, CO CRU

Christine Moffitt, ID CRU

W. David Walter, PA CRU

W. Mark Ford, VA CRU

Michael Samuel, WI Wildlife CRU



## Invasive Species

Mark Wipfli, AK CRU

Scott Bonar, AZ CRU

Melanie Culver, AZ CRU

Daniel Magoulick, AR CRU

Dana Winkelman, CO CRU

Brian Irwin, GA CRU

Clint Moore, GA CRU

Michael Quist, ID CRU

Christine Moffitt, ID CRU

Clay Pierce, IA CRU

David Fulton, MN CRU

Alexander Zale, MT Fish CRU

Chris Guy, MT Fish CRU

Craig Allen, NE CRU

Kevin Pope, NE CRU

Colleen Caldwell, NM CRU

Tom Kwak, NC CRU

Jim Long, OK CRU

Katie Dugger, OR CRU

Steve Chipps, SD CRU

Phillip Bettoli, TN CRU

Reynaldo Patino, TX CRU

Phaedra Budy, UT CRU

Donna Parrish, VT CRU

Paul Angermeier, VA CRU

David Beauchamp, WA CRU

Stuart Welsh, WV CRU

Daniel Isermann, WI Fish CRU

Anna Chalfoun, WY CRU



## Advanced Technologies

Barry Grand, AL CRU

Scot Bonar, AZ CRU

Dana Winkelman, CO CRU

Mevin Hooten, CO CRU

William Kendall, CO CRU

Raymond Carthy, FL CRU

Clint Moore, GA CRU

Michael Quist, ID CRU

Joseph Zydlewski, ME CRU

David Fulton, MN CRU

Craig Allen, NE CRU

Scott Carleton, NM CRU

Carl Schreck, OR CRU

Duane Diefenbach, PA CRU

W. David Walter, PA CRU

Tim Grabowski, TX CRU

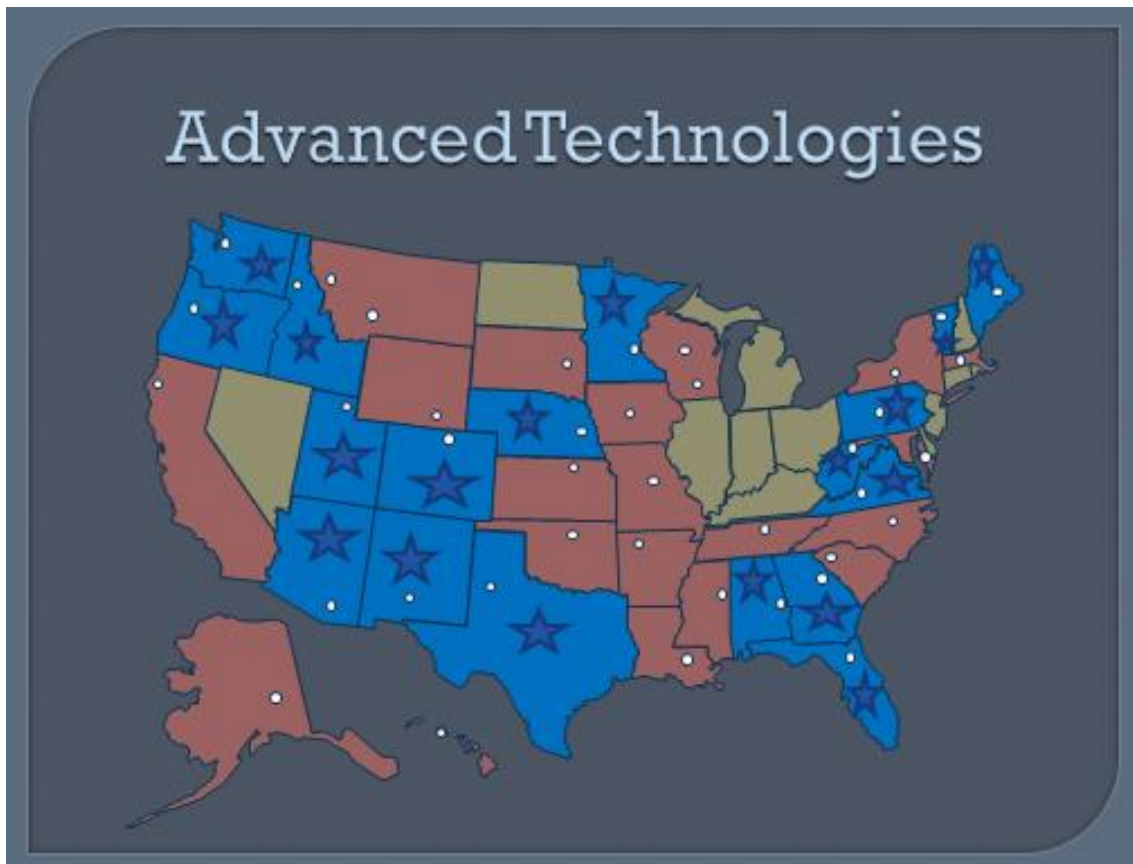
Thomas Edwards, UT CRU

Therese Donovan, VT CRU

W. Mark Ford, VA CRU

David Beauchamp, WA CRU

Stuart Welsh, WV CRU





## Landscape Science

Barry Grand, AL CRU

Elise Irwin, AL CRU

Brad Griffith, AK CRU

Jeff Falke, AK CRU

A. David McGuire, AK CRU

Mark Wipfli, AK CRU

Melanie Culver, AZ CRU

Daniel Magoulick, AR CRU

Mevin Hooten, CO CRU

Robert Klaver, IA CRU

Cynthia Loftin, ME CRU

David Fulton, MN CRU

Craig Paukert, MO CRU

Amanda Rosenberger, MO CRU

Elisabeth Webb, MO CRU

Craig Allen, NE CRU

Scott Carleton, NM CRU

Jaime Collazo, NC CRU

Shannon Brewer, OK CRU

Tyler Wagner, PA CRU

Reynaldo Patino, TX CRU

Thomas Edwards, UT CRU

Therese Donovan, VT CRU

Christine Ribic, WI Wildlife CRU

Annika Walters, WY CRU

Anna Chalfoun, WY CRU



## Energy and Wildlife

Brad Griffith, AK CRU

Joseph Zydlewski, ME CRU

Stephen DeStefano, MA CRU

Alexander Zale, MT Fish CRU

Christopher Guy, MT Fish CRU

Scott Carleton, NM CRU

Steve Chipps, SD CRU

Clint Boal, TX CRU

W. Mark Ford, VA CRU

Paul Angermeier, VA CRU

Petra Wood, WV CRU

Christine Ribic, WI Wildlife CRU

Matthew Kauffman, WY CRU

Annika Walters, WY CRU

Anna Chalfoun, WY CRU





## Ecosystem Services

Brad Griffith, AK CRU

A. David McGuire, AK CRU

Mark Wipfli, AK CRU

Christine Moffitt, ID CRU

Megan LaPeyre, LA CRU

Joseph Zydlewski, ME CRU

Harold Schramm, MS CRU

Chris Guy, MT Fish CRU

Craig Allen, NE CRU

Kevin Pope, NE CRU

Angela Fuller, NY CRU

Steve Chipps, SD CRU

Phaedra Budy, UT CRU

Paul Angermeier, VA CRU

Christine Ribic, WI Wildlife CRU



## Ecological Flows

Elise Irwin, AL CRU

Jeff Falke, AK CRU

Mark Wipfli, AK CRU

A. David McGuire, AK CRU

Scott Bonar, AZ CRU

Daniel Magoulick, AR CRU

Margaret Wilzbach, CA CRU

Dana Winkelman, CO CRU

Brian Irwin, GA CRU

Clay Pierce, IA CRU

Cynthia Loftin, ME CRU

Joseph Zydlewski, ME CRU

Allison Roy, MA CRU

Craig Paukert, MO CRU

Amanda Rosenberger, MO CRU

Alexander Zale, MT Fish CRU

Kevin Pope, NE CRU

Joseph (TJ) Fontaine, NE CRU

Shannon Brewer, OK CRU

Carl Schreck, OR CRU

James Peterson, OR CRU

Tyler Wagner, PA CRU

Steven Chipps, SD CRU

Tim Grabowski, TX CRU

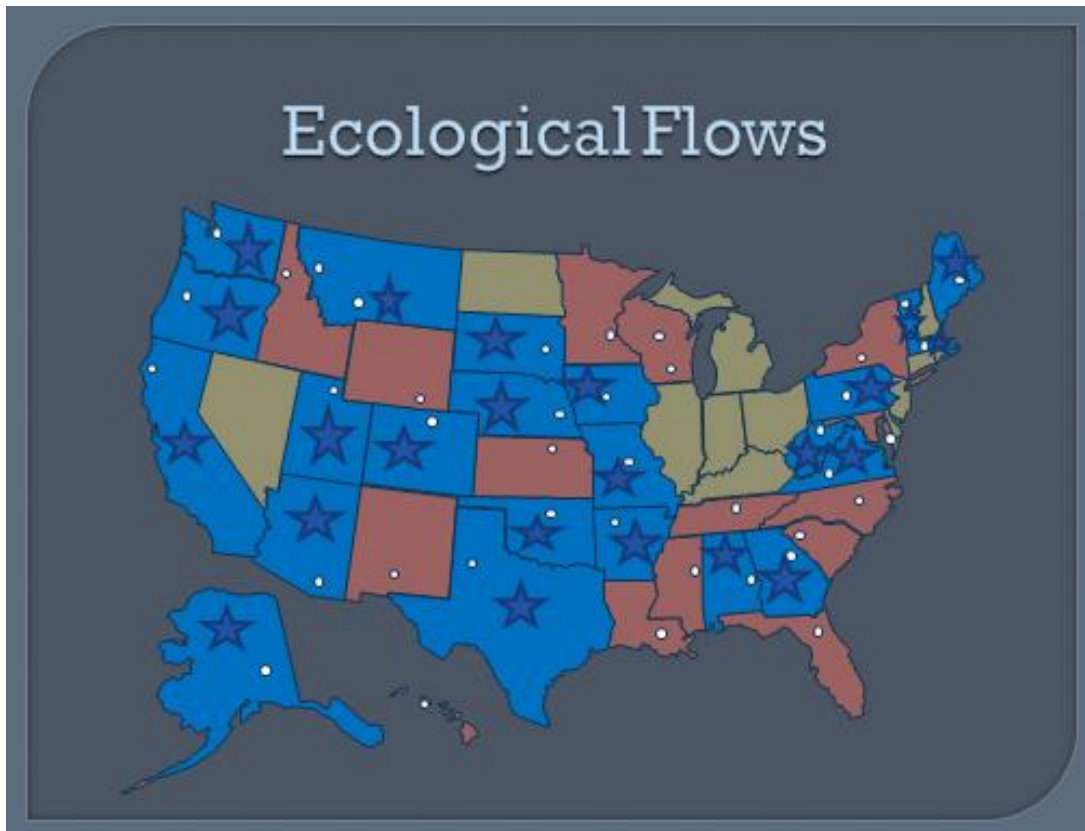
Phaedra Budy, UT CRU

Donna Parrish, VT CRU

Paul Angermeier, VA CRU

David Beauchamp, WA CRU

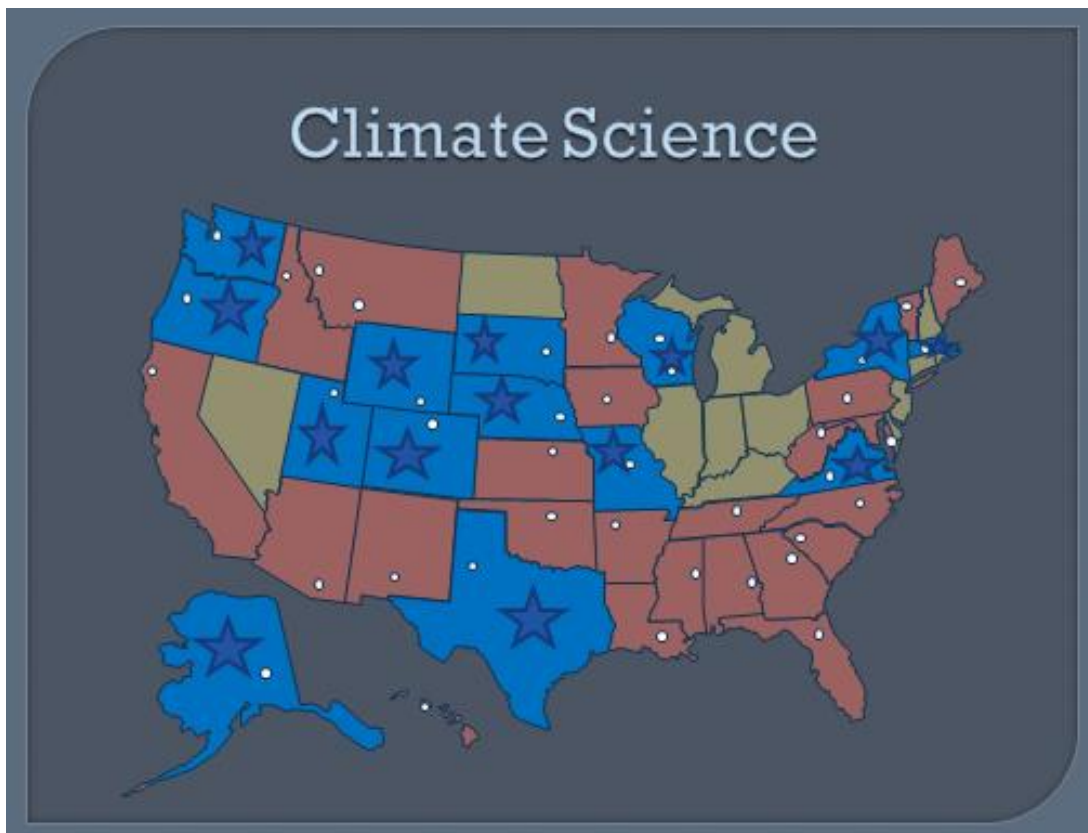
Stuart Welsh, WV CRU





## Climate Science

Brad Griffith, AK CRU  
A. David McGuire, AK CRU  
Dana Winkelman, CO CRU  
Stephen DeStefano, MA CRU  
Allison Roy, MA CRU  
Craig Paukert, MO CRU  
Craig Allen, NE CRU  
Joseph (TJ) Fontaine, NE CRU  
Colleen Caldwell, NM CRU  
James Cain, NM CRU  
Angela Fuller, NY CRU  
James Peterson, OR CRU  
Steve Chipps, SD CRU  
Reynaldo Patino, TX CRU  
Phaedra Budy, UT CRU  
W. Mark Ford, VA CRU  
Paul Angermeier, VA CRU  
Dave Beauchamp, WA CRU  
Chistine Ribic, WI Wildlife CRU  
Michael Samuel, WI Wildlife CRU  
Matthew Kauffman, WY CRU



## Conservation Genetics and Genomics

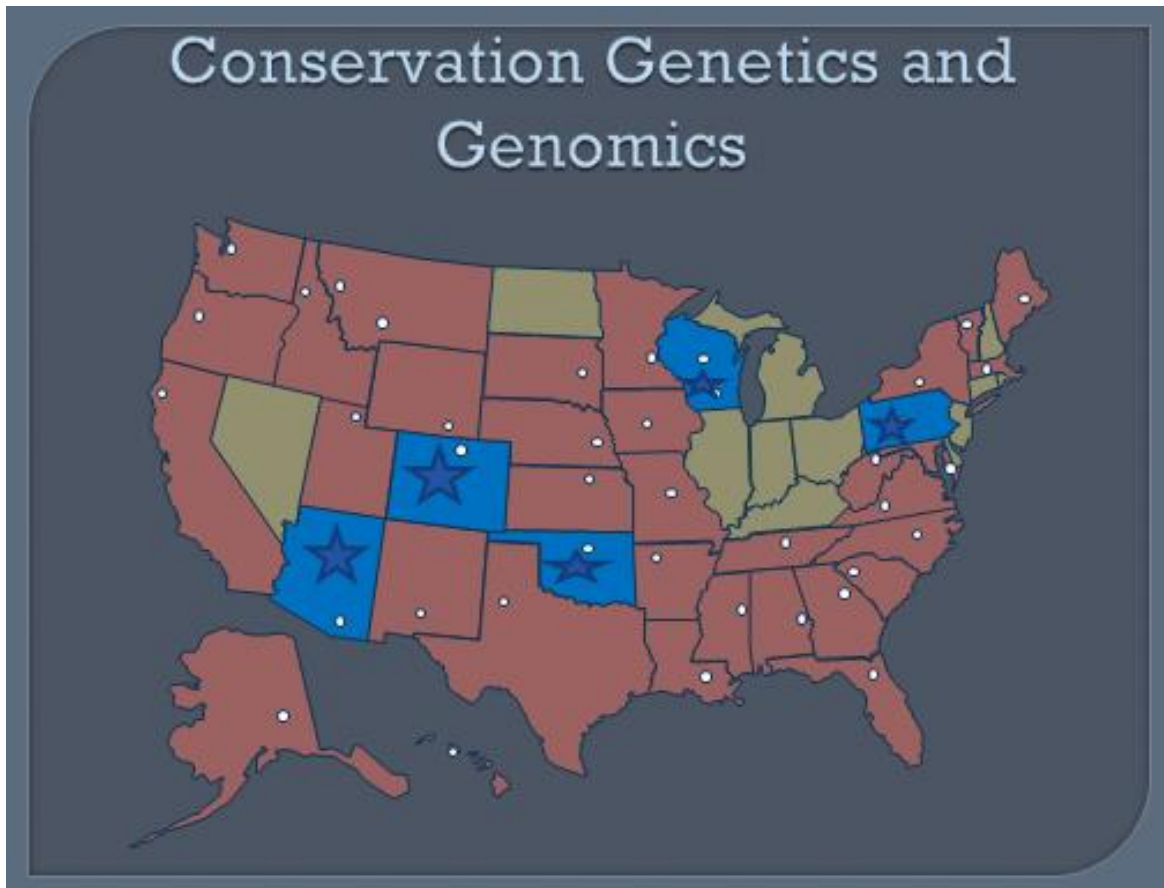
Melanie Culver, AZ CRU

Mevin Hooten, CO CRU

David Leslie, OK CRU

W. David Walter, PA CRU

Michael Samuel, WI Wildlife CRU



## Ecological Stressors

Brad Griffith, AK CRU  
 Jeff Falke, AK CRU  
 A. David McGuire, AK CRU  
 Scott Bonar, AZ CRU  
 Daniel Magoulick, AR CRU  
 Dana Winkelman, CO CRU  
 Abby Powell, FL CRU  
 Brian Irwin, GA CRU  
 Clay Pierce, IA CRU  
 Michael Quist, ID CRU  
 Christine Moffitt, ID CRU  
 Cynthia Loftin, ME CRU  
 Stephen DeStefano, MA CRU  
 Allison Roy, MA CRU  
 Amanda Rosenberger, MO CRU  
 Alexander Zale, MT Fish CRU  
 Craig Allen, NE CRU  
 Colleen Caldwell, NM CRU  
 Scott Carleton, NM CRU

Thomas Kwak, NC CRU  
 Carl Schreck, OR CRU  
 Daniel Roby, OR CRU  
 Katie Dugger, OR CRU  
 Tyler Wagner, PA CRU  
 Steven Chipps, SD CRU  
 Reynaldo Patino, TX CRU  
 Tim Grabowski, TX CRU  
 Clint Boal, TX CRU  
 W. Mark Ford, VA CRU  
 Paul Angermeier, VA CRU  
 David Beauchamp, WA CRU  
 Petra Wood, WV CRU  
 Christine Ribic, WI Wildlife CRU  
 Michael Samuel, WI Wildlife CRU  
 Matthew Kauffman, WY CRU  
 Annika Walters, WY CRU  
 Anna Chalfoun, WY CRU





## Ecosystem Ecology

Brad Griffith, AK CRU  
 A. David McGuire, AK CRU  
 Mark Wipfli, AK CRU  
 Daniel Magoulick, AR CRU  
 Dana Winkelman, CO CRU  
 Clay Pierce, IA CRU  
 David Haukos, KS CRU  
 Sammy King, LA CRU  
 Cynthia Loftin, ME CRU  
 Joseph Zydlewski, ME CRU  
 Harold Schramm, MS CRU  
 Amanda Rosenberger, MO CRU  
 Elisabeth Webb, MO CRU  
 Thomas Martin, MT Wildlife CRU  
 Craig Allen, NE CRU

Kevin Pope, NE CRU  
 Joseph (TJ) Fontaine, NE CRU  
 W. David Walter, PA CRU  
 Tyler Wagner, PA CRU  
 Steve Chipps, SD CRU  
 Joshua Stafford, SD CRU  
 Clint Boal, TX CRU  
 W. Mark Ford, VA CRU  
 Paul Angermeier, VA CRU  
 Christine Ribic, WI Wildlife CRU  
 Michael Samuel, WI Wildlife CRU  
 Petra Wood, WV CRU  
 Matthew Kauffman, WY CRU  
 Annika Walters, WY CRU  
 Anna Chalfoun, WY CRU



## Ecotoxicology

Dana Winkelman, CO CRU

Colleen Caldwell, NM CRU

Carl Schreck, OR CRU

Reynaldo Patino, TX CRU

Glenn VanBlaricom, WA CRU

Patricia Mazik, WV CRU



## **Fish and Wildlife Health (including Conservation Medicine)**

Mevin Hooten, CO CRU

Christine Moffitt, ID CRU

Carl Schreck, OR CRU

W. David Walter, PA CRU

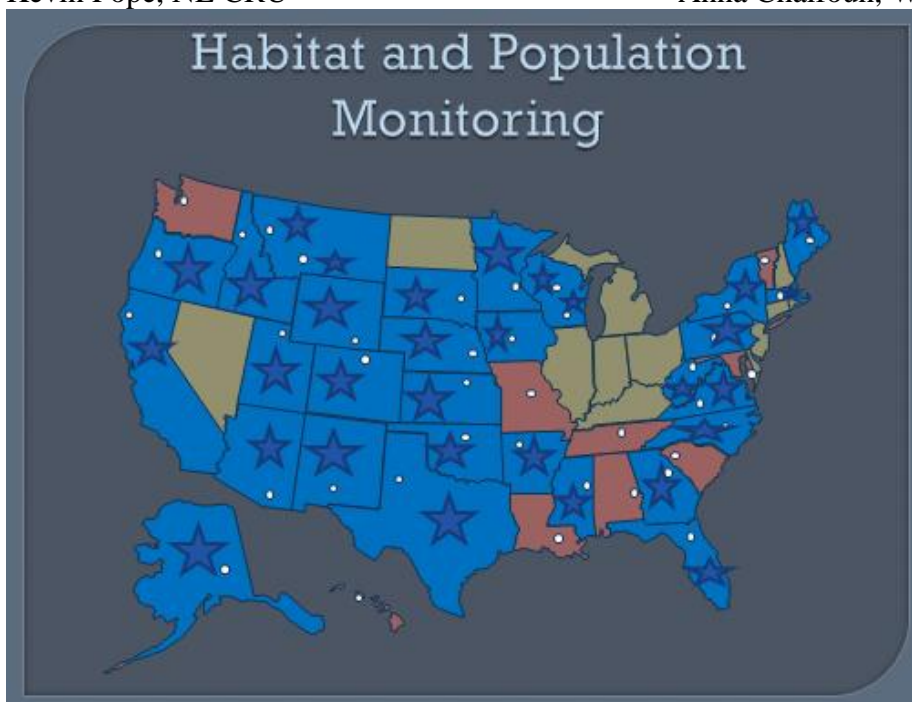
W. Mark Ford, VA CRU

Michael Samuel, WI CRU



## Habitat and Population Monitoring

Brad Griffith, AK CRU	Colleen Caldwell, NM CRU
Scott Bonar, AZ CRU	Scott Carleton, NM CRU
David Kremetz, AR CRU	James Cain, NM CRU
Margaret Wilzbach, CA CRU	Angela Fuller, NY CRU
Dana Winkelman, CO CRU	Theodore Simons, NC CRU
William Kendall, CO CRU	David Leslie, OK CRU
Mevin Hooten, CO CRU	Jim Long, OK CRU
Cecil Jennings, GA CRU	Daniel Roby, OR CRU
Clint Moore, GA CRU	James Peterson, OR CRU
Courtney Conway, ID CRU	Katie Dugger, OR CRU
Michael Quist, ID CRU	Duane Diefenbach, PA CRU
Robert Klaver, IA CRU	Steve Chipps, SD CRU
Clay Pierce, IA CRU	Joshua Stafford, SD CRU
Martha Mather, KS CRU	Reynaldo Patino, TX CRU
Joseph Zydlewski, ME CRU	Clint Boal, TX CRU
Stephen DeStefano, MA CRU	Tim Grabowski, TX CRU
Allison Roy, MA CRU	Phaedra Budy, UT CRU
David Andersen, MN CRU	W. Mark Ford, VA CRU
Harold Schramm, MS CRU	Paul Angermeier, VA CRU
Esteban Miranda, MS CRU	Petra Wood, WV CRU
Francisco Vilella, MS CRU	Stuart Welsh, WV CRU
Alexander Zale, MT Fish CRU	Daniel Isermann, WI Fish CRU
Christopher Guy, MT Fish CRU	Christine Ribic, WI Wildlife CRU
Michael Mitchell, MT Wildlife CRU	Matthew Kauffman, WY CRU
Joseph (TJ) Fontaine, NE CRU	Annika Walters, WY CRU
Kevin Pope, NE CRU	Anna Chalfoun, WY CRU



## Harvest Management

Scott Bonar, AZ CRU

Melanie Culver, AZ CRU

David Kremetz, AR CRU

William Kendall, CO CRU

Abby Powell, FL CRU

Clint Moore, GA CRU

Brian Irwin, GA CRU

Michael Quist, ID CRU

Robert Klaver, IA CRU

Joseph Zydlewski, ME CRU

Stephen DeStefano, MA CRU

David Andersen, MN CRU

David Fulton, MN CRU

Chris Guy, MT Fish CRU

Alexander Zale, MT Fish CRU

Michael Mitchell, MT Wildlife CRU

Kevin Pope, NE CRU

James Cain, NM CRU

Angela Fuller, NY CRU

David Leslie, OK CRU

Duane Diefenbach, PA CRU

Joshua Stafford, SD CRU

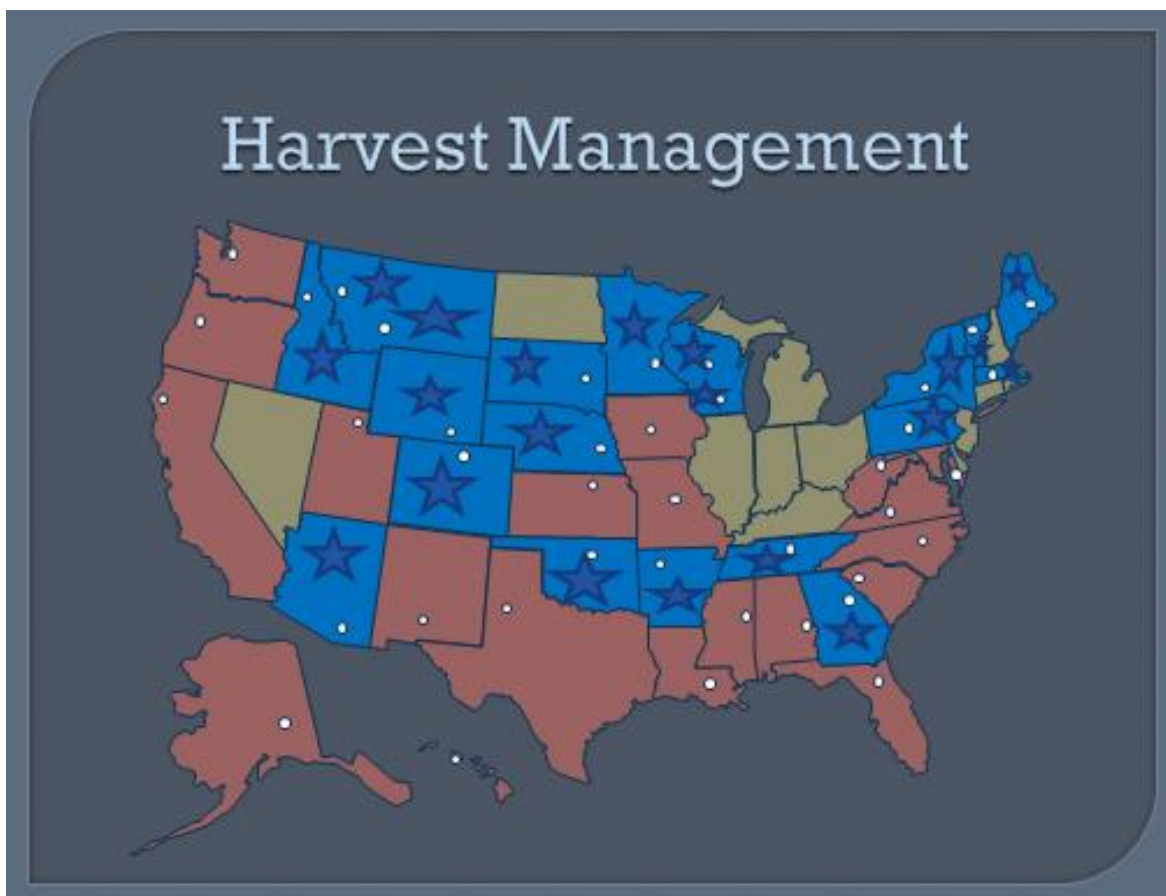
Phillip Bettoli, TN CRU

Therese Donovan, VT CRU

Daniel Isermann, WI Fish CRU

Michael Samuel, WI Wildlife CRU

Matthew Kauffman, WY CRU



## Human Dimensions

David Fulton, MN CRU

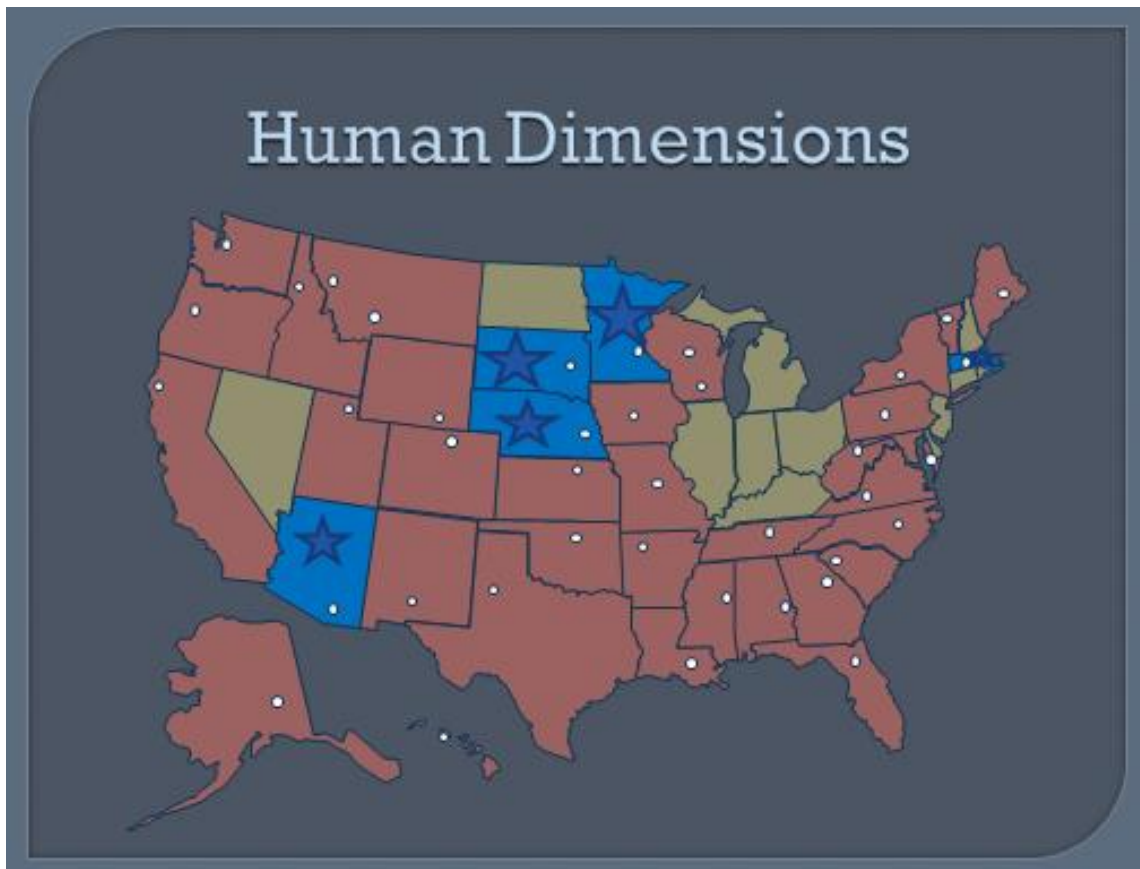
Larry Gigliotti, SD CRU

Stephen DeStefano, MA CRU

Joseph (TJ) Fontaine, NE CRU

Kevin Pope, NE CRU

Scott Bonar, AZ CRU





## Imperiled Species

Conor McGowan, AL CRU  
 Scott Bonar, AZ CRU  
 Melanie Culver, AZ CRU  
 David Kremetz, AR CRU  
 Daniel Magoulick, AR CRU  
 Dana Winkelman, CO CRU  
 William Kendall, CO CRU  
 Abby Powell, FL CRU  
 Raymond Carthy, FL CRU  
 Brian Irwin, GA CRU  
 Cecil Jennings, GA CRU  
 Clint Moore, GA CRU  
 Michael Quist, ID CRU  
 Robert Klaver, IA CRU  
 Clay Pierce, IA CRU  
 David Haukos, KS CRU  
 Sammy King, LA CRU  
 Cynthia Loftin, ME CRU  
 Joseph Zydlewski, ME CRU  
 Stephen DeStefano, MA CRU  
 Allison Roy, MA CRU  
 David Andersen, MN CRU  
 David Fulton, MN CRU  
 Amanda Rosenberger, MO CRU  
 Francisco Vilella, MS CRU  
 Alexander Zale, MT Fish CRU  
 Chris Guy, MT Fish CRU  
 Craig Allen, NE CRU  
 Colleen Caldwell, NM CRU  
 James Cain, NM CRU  
 Scott Carleton, NM CRU  
 Thomas Kwak, NC CRU  
 Jaime Collazo, NC CRU  
 Theodore Simons, NC CRU  
 David Leslie, OK CRU  
 Shannon Brewer, OK CRU  
 Carl Schreck, OR CRU  
 Daniel Roby, OR CRU  
 Katie Dugger, OR CRU  
 James Peterson, OR CRU  
 Patrick Jodice, SC CRU  
 Steven Chipps, SD CRU  
 Phillip Bettoli, TN CRU  
 Reynaldo Patino, TX CRU  
 Tim Grabowski, TX CRU  
 Clint Boal, TX CRU  
 Phaedra Budy, UT CRU  
 Thomas Edwards, UT CRU  
 Donna Parrish, VT CRU  
 W. Mark Ford, VA CRU  
 Paul Angermeier, VA CRU  
 Petra Wood, WV CRU  
 Stuart Welsh, WV CRU  
 Christine Ribic, WI Wildlife CRU  
 Anna Chalfoun, WY CRU



## Landscape Ecology

Barry Grand, AL CRU  
Elise Irwin, AL CRU  
Brad Griffith, AK CRU  
Jeff Falke, AK CRU  
A. David McGuire, AK CRU  
Mark Wipfli, AK CRU  
Melanie Culver, AZ CRU  
Daniel Magoulick, AR CRU  
Mevin Hooten, CO CRU  
Robert Klaver, IA CRU  
Cynthia Loftin, ME CRU  
David Fulton, MN CRU  
Craig Paukert, MO CRU  
Amanda Rosenberger, MO CRU  
Elisabeth Webb, MO CRU

Craig Allen, NE CRU  
Scott Carleton, NM CRU  
Jaime Collazo, NC CRU  
Shannon Brewer, OK CRU  
Tyler Wagner, PA CRU  
Joshua Stafford, SD CRU  
Thomas Edwards, UT CRU  
Therese Donovan, VT CRU  
W. Mark Ford, VA CRU  
Paul Angermeier, VA CRU  
Christine Ribic, WI Wildlife CRU  
Matthew Kauffman, WY CRU  
Annika Walters, WY CRU  
Anna Chalfoun, WY CRU



## Marine Ecology

William Kendall, CO CRU

Raymond Carthy, FL CRU

Megan LaPeyre, LA CRU

Katie Dugger, OR CRU

Patrick Jodice, SC CRU

Tim Grabowski, TX CRU

David Beauchamp, WA CRU

Glenn VanBlaricom, WA CRU



## Population Dynamics, Demography and Modeling

Barry Grand, AL CRU

Conor McGowan, AL CRU

Dana Winkelman, CO CRU

Bill Kendall, CO CRU

Abby Powell, FL CRU

Brian Irwin, GA CRU

Clint Moore, GA CRU

Courtney Conway, ID CRU

Michael Quist, ID CRU

Clay Pierce, IA CRU

David Haukos, KS CRU

Megan LaPeyre, LA CRU

Joseph Zydlewski, ME CRU

Stephen DeStefano, MA CRU

Allison Roy, MA CRU

David Andersen, MN CRU

Amanda Rosenberger, MO CRU

Christopher Guy, MT Fish CRU

Mike Mitchell, MT Wildlife CRU

Kevin Pope, NE CRU

James Cain, NM CRU

Scott Carleton, NM CRU

Angela Fuller, NY CRU

Jim Long, OK CRU

James Peterson, OR CRU

Katie Dugger, OR CRU

Duane Diefenbach, PA CRU

Tim Grabowski, TX CRU

Clint Boal, TX CRU

Phaedra Budy, UT CRU

W. Mark Ford, VA CRU

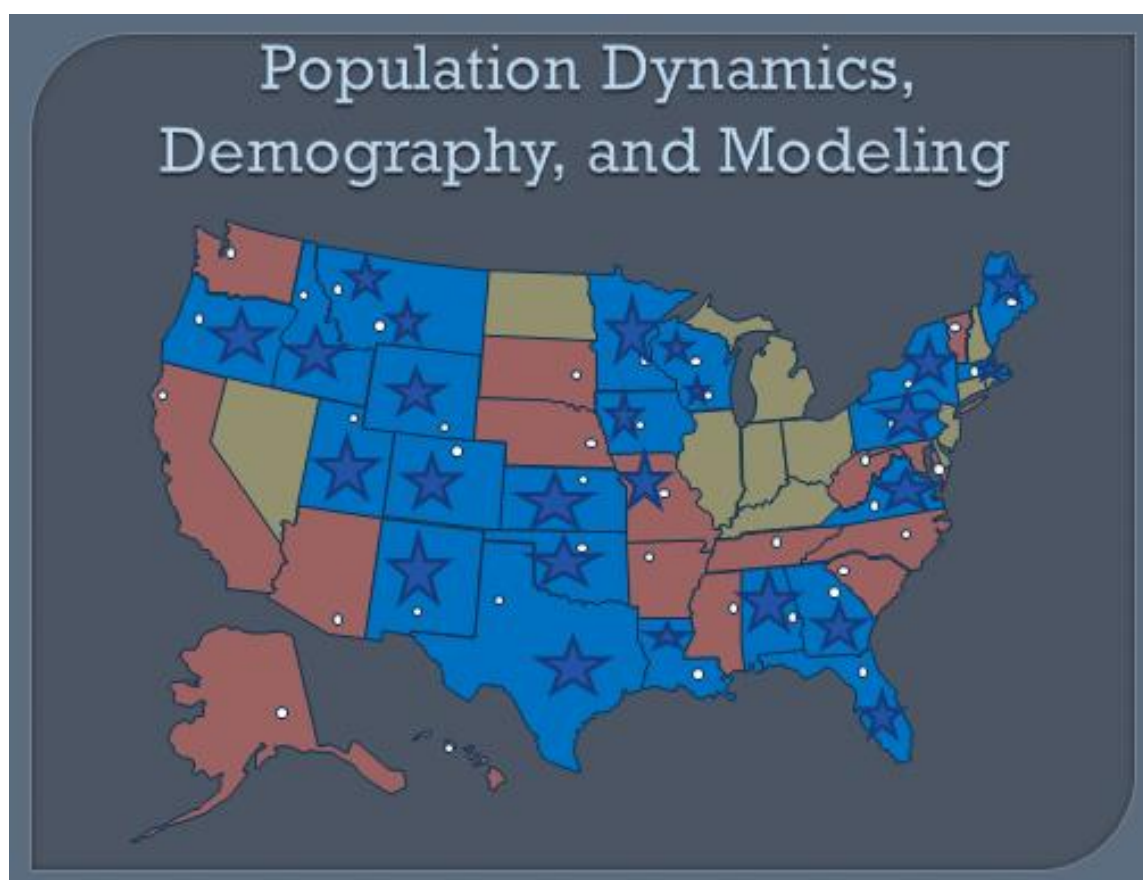
Paul Angermeier, VA CRU

Daniel Isermann, WI Fish CRU

Christine Ribic, WI Wildlife CRU

Michael Samuel, WI Wildlife CRU

Matthew Kauffman, WY CRU



## Quantitative Science

Bill Kendall, CO CRU

Mevin Hooten, CO CRU

Clint Moore, GA CRU

Brian Irwin, GA CRU

James Peterson, OR CRU

Duane Diefenbach, PA CRU

Thomas Edwards, UT CRU

Therese Donovan, VT CRU

Christine Ribic, WI Wildlife CRU

Michael Samuel, WI Wildlife CRU



## Restoration Ecology

Elise Irwin, AL CRU

David Krementz, AR CRU

Margaret Wilzbach, CA CRU

Sammy King, LA CRU

Megan LaPeyre, LA CRU

Joseph Zydlewski, ME CRU

Allison Roy, MA CRU

David Fulton, MN CRU

Alexander Zale, MT Fish CRU

Scott Carleton, NM CRU

Daniel Roby, OR CRU

Phaedra Budy, UT CRU

W. Mark Ford, VA CRU





## Spatial Ecology

Brad Griffith, AK CRU

Jeff Falke, AK CRU

A. David McGuire, AK CRU

Mevin Hooten, CO CRU

Cynthia Loftin, ME CRU

Stephen DeStefano, MA CRU

Mike Mitchell, MT Wildlife CRU

Joseph (TJ) Fontaine, NE CRU

Jim Long, OK CRU

W. David Walter, PA CRU

Thomas Edwards, UT CRU

W. Mark Ford, VA CRU

Paul Angermeier, VA CRU

Christine Ribic, WI Wildlife CRU

Matthew Kauffman, WY CRU



## Species of Management Concern

Barry Grand, AL CRU  
 Elise Irwin, AL CRU  
 Scott Bonar, AZ CRU  
 Melanie Culver, AZ CRU  
 Dana Winkelman, CO CRU  
 William Kendall, CO CRU  
 Abby Powell, FL CRU  
 Raymond Carthy, FL CRU  
 Brian Irwin, GA CRU  
 Clint Moore, GA CRU  
 Christine Moffitt, ID CRU  
 Michael Quist, ID CRU  
 Robert Klaver, IA CRU  
 Clay Pierce, IA CRU  
 David Haukos, KS CRU  
 Sammy King, LA CRU  
 Cynthia Loftin, ME CRU  
 Stephen DeStefano, MA CRU  
 David Andersen, MN CRU  
 David Fulton, MN CRU  
 Alexander Zale, MT Fish CRU  
 Chris Guy, MT Fish CRU  
 Mike Mitchell, MT Wildlife CRU  
 Joseph Fontaine, NE CRU  
 Colleen Caldwell, NM CRU  
 James Cain, NM CRU  
 Scott Carleton, NM CRU  
 Angela Fuller, NY CRU  
 Thomas Kwak, NC CRU  
 Jaime Collazo, NC CRU  
 Theodore Simons, NC CRU  
 David Leslie, OK CRU  
 Shannon Brewer, OK CRU  
 Jim Long, OK CRU  
 Carl Schreck, OR CRU  
 Daniel Roby, OR CRU  
 Katie Dugger, OR CRU  
 Duane Diefenbach, PA CRU  
 Tyler Wagner, PA CRU  
 Patrick Jodice, SC CRU  
 Steve Chipps, SD CRU  
 Joshua Stafford, SD CRU  
 Phillip Bettoli, TN CRU  
 Tim Grabowski, TX CRU  
 Clint Boal, TX CRU  
 Phaedra Budy, UT CRU  
 Donna Parrish, VT CRU  
 Therese Donovan, VT CRU  
 W. Mark Ford, VA CRU  
 Paul Angermeier, VA CRU  
 Petra Wood, WV CRU  
 Stuart Welsh, WV CRU  
 Daniel Isermann, WI Fish CRU  
 Christine Ribic, WI Wildlife CRU  
 Michael Samuel, WI Wildlife CRU  
 Annika Walters, WY CRU  
 Anna Chalfoun, WY CRU



## Structured Decision Making

Barry Grand, AL CRU

Conor McGowan, AL CRU

Elise Irwin, AL CRU

William Kendall, CO CRU

Brian Irwin, GA CRU

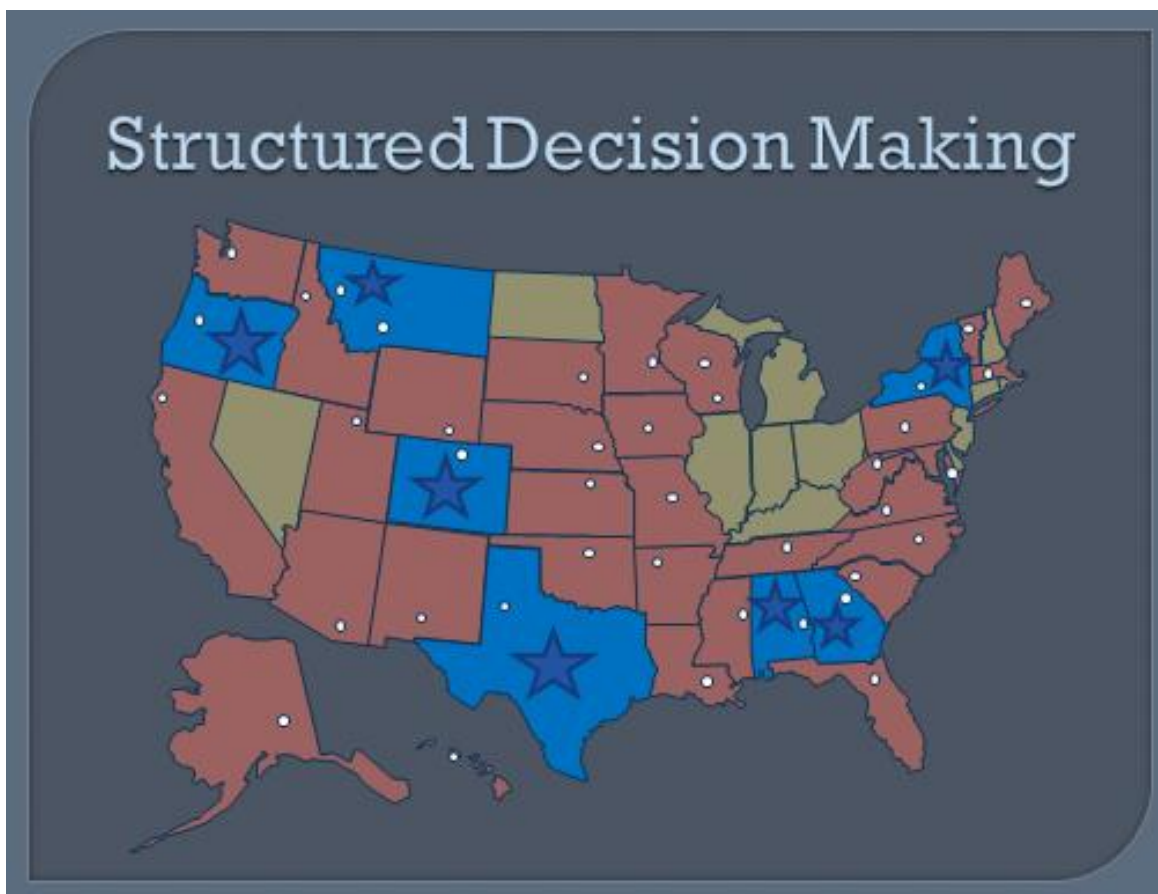
Clint Moore, GA CRU

Mike Mitchell, MT Wildlife CRU

Angela Fuller, NY CRU

James Peterson, OR CRU

Clint Boal, TX CRU



## Urban Fish and Wildlife Ecology

Stephen DeStefano, MA CRU

Allison Roy, MA CRU

Kevin Pope, NE CRU

Carl Schreck, OR CRU

Steve Chipps, SD CRU

Clint Boal, TX CRU

W. Mark Ford, VA CRU



## Wetland Science

A. David McGuire, AK CRU

Abby Powell, FL CRU

David Haukos, KS CRU

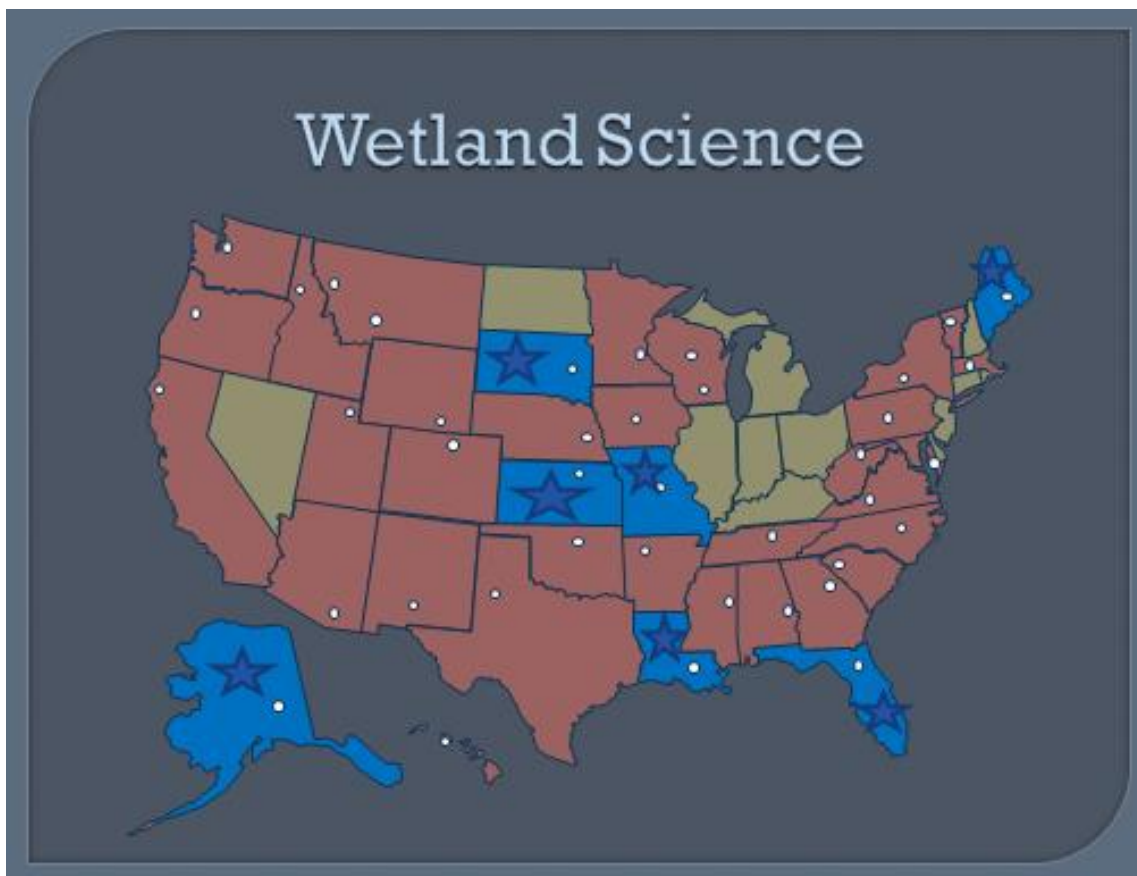
Sammy King, LA CRU

Megan La Peyre, LA CRU

Cynthia Loftin, ME CRU

Elisabeth Webb, MO CRU

Joshua Stafford, SD CRU



## Glossary

### **Advanced Tools/Technology**

Advanced Tools / Technology Development includes development and adaptation of new technologies and tools that increase effectiveness, efficiency, safety, accuracy, geographic extent, or timeliness of data gathering, dissemination, analysis, and interpretation of natural resource phenomena. It also includes development of new tools that assist natural resource managers in decision-making and adaptive management. Once these tools/technologies are developed and tested, projects using them would be listed under one of the other lines of work.

### **Ecological Stressors**

Ecological Stressors includes the study of the physical, chemical, and biological factors that impact the health and integrity of ecosystems and productivity of species, often changing the trajectories of species and ecosystems. These stressors can include natural environmental or anthropogenic factors (e.g., fire, climate change, energy development, storms). For purposes of this exercise, research into the effects of a stressor on an imperiled species or species of management concern should be included under the Imperiled Species and Species of Management Concern lines of work, respectively. Similarly, research into the effects of fish and wildlife diseases should be included in the Fish and Wildlife Health line of work.

### **Ecosystem Ecology**

Ecosystem Ecology includes the integrated study of biotic and abiotic components in the environment including processes (e.g. energy flow, materials cycling, competition, predation, habitat selection) and their interaction within an ecosystem framework. Projects could examine how ecosystems work and how processes relate to the chemical, geological, agronomical, hydrological, and biological elements in the environment. With humans as a dominant element of many ecosystems, human impacts and benefits (e.g. ecosystem services) could be addressed. Work may be related to a given kind of environment, such as aquatic systems, deserts, forests, and so forth. Work may also be related to a given species, population, or taxon (e.g. mammals) but would account for ecological relationships within the environments as a whole. While the science may have application for restoration (Restoration Science) or be of some relevance in a particular landscape scale program (Landscape Science), the primary thrust of the work classified here should be consideration of ecosystem components and how they dynamically interact.

### **Ecosystem Services**

An ecosystem service is any positive benefit provided to society by fish, wildlife, or components of ecosystems through their functions.

### **Imperiled Species**

Imperiled Species is the study of species and their habitats that are declining, rare, or uncommon; it includes species that are federally listed as threatened or endangered or identified as candidates for future listing consideration. It also includes the assessment of threats and the development of management tools to aid species recovery and monitoring.



**Invasive Species**

Invasive Species is the study of non-indigenous species that can adversely affect the habitats they invade environmentally, ecologically, and/or economically. It considers how invasive species can displace native species and their ability to dominate or alter an ecosystem, or enter an ecosystem beyond its natural range and cause economic or environmental harm. It can also include basic biology about invading species to determine potential spread and to develop control techniques.

**Landscape Science**

Landscape Science is the holistic study of the origin, structure, and dynamics of ecosystem components across broad geographic or watershed scales. It includes analysis of spatial and temporal information, effects of ecosystem stressors, and how such information can be scaled to address specific management needs and support decision-making at broad geographic scales. This category generally includes research on largely defined landscapes, such as the Chesapeake Bay, Everglades, Great Basin, and Great Lakes. It could also include landscape scale assessments and programs, such as the Wyoming Landscape Conservation Initiative and development of Rapid Ecoregional Assessments.

**Restoration Science**

Restoration Science is the research in support of the practice of ecological restoration and rehabilitation. It is the study of the traditional and developing practices of renewing, restoring, and adaptively managing degraded, damaged, or destroyed ecosystems through human intervention and action to re-establish ecosystem functions and services. It can include design of monitoring strategies and assessment of the effectiveness of restoration actions in support of adaptive management.

**Species of Management Concern**

Species of Management Concern is the study of species, subspecies, populations, or geographic segments of populations that warrant management or conservation attention, as identified by a natural resource management agency. Species of Management Concern may include a variety of species, including those that are considered at-risk, have economic or intrinsic value, or are overly abundant and therefore leading to management conflicts. This may include species specific subcategories, species guilds, and program areas, such as ARMI.

## Contact Information for Cooperative Fish and Wildlife Research Unit Scientists

- Craig Allen, NE CRU [allencr@unl.edu](mailto:allencr@unl.edu) (402) 472-0229  
[http://www.coopunits.org/Nebraska/People/Craig\\_Allen/index.html](http://www.coopunits.org/Nebraska/People/Craig_Allen/index.html)
- David Andersen, MN CRU [dea@umn.edu](mailto:dea@umn.edu) (612) 626-1222  
[http://www.coopunits.org/Minnesota/People/David\\_Andersen/index.html](http://www.coopunits.org/Minnesota/People/David_Andersen/index.html)
- Paul Angermeier, VA CRU [biota@vt.edu](mailto:biota@vt.edu) (540) 231-4501  
[http://www.coopunits.org/Virginia/People/Paul\\_Angermeier/index.html](http://www.coopunits.org/Virginia/People/Paul_Angermeier/index.html)
- David Beauchamp, WA CRU [davebea@uw.edu](mailto:davebea@uw.edu) (206) 543-6475  
[http://www.coopunits.org/Washington/People/Dave\\_Beauchamp/index.html](http://www.coopunits.org/Washington/People/Dave_Beauchamp/index.html)
- Phillip Bettoli, TN CRU [pbettoli@tntech.edu](mailto:pbettoli@tntech.edu) (931) 372-3086  
[http://www.coopunits.org/Tennessee/People/Phil\\_Bettoli/index.html](http://www.coopunits.org/Tennessee/People/Phil_Bettoli/index.html)
- Clint Boal, TX CRU [clint.boal@ttu.edu](mailto:clint.boal@ttu.edu) (806) 742-2851  
[http://www.coopunits.org/Texas/People/Clint\\_Boal/index.html](http://www.coopunits.org/Texas/People/Clint_Boal/index.html)
- Scott Bonar, AZ CRU [sbonar@ag.arizona.edu](mailto:sbonar@ag.arizona.edu) (520) 349-1894  
[http://www.coopunits.org/Arizona/People/Scott\\_Bonar/index.html](http://www.coopunits.org/Arizona/People/Scott_Bonar/index.html)
- Shannon Brewer, OK CRU [skbrewer@usgs.gov](mailto:skbrewer@usgs.gov) (405) 744-9841  
[http://www.coopunits.org/Oklahoma/People/Shannon\\_Brewer/index.html](http://www.coopunits.org/Oklahoma/People/Shannon_Brewer/index.html)
- Phaedra Budy, UT CRU [Phaedra.budy@usu.edu](mailto:Phaedra.budy@usu.edu) (435) 797-7564  
[http://www.coopunits.org/Utah/People/Phaedra\\_Budy/index.html](http://www.coopunits.org/Utah/People/Phaedra_Budy/index.html)
- James Cain, NM CRU [jwcain@nmsu.edu](mailto:jwcain@nmsu.edu) (575) 646-3382  
[http://www.coopunits.org/New\\_Mexico/People/James\\_Cain/index.html](http://www.coopunits.org/New_Mexico/People/James_Cain/index.html)
- Colleen Caldwell, NM CRU [ccaldwel@nmsu.edu](mailto:ccaldwel@nmsu.edu) (575) 646-8126  
[http://www.coopunits.org/New\\_Mexico/People/Colleen\\_Caldwell/index.html](http://www.coopunits.org/New_Mexico/People/Colleen_Caldwell/index.html)
- Scott Carleton, NM CRU [scarleton@usgs.gov](mailto:scarleton@usgs.gov) (575) 646-7196  
[http://www.coopunits.org/New\\_Mexico/People/Scott\\_Carleton/index.html](http://www.coopunits.org/New_Mexico/People/Scott_Carleton/index.html)
- Raymond Carthy, FL CRU [carthyr@wec.ufl.edu](mailto:carthyr@wec.ufl.edu) (352) 846-0545  
[http://www.coopunits.org/Florida/People/Raymond\\_Carthy/index.html](http://www.coopunits.org/Florida/People/Raymond_Carthy/index.html)
- Anna Chalfoun, WY CRU [achalfou@uwyo.edu](mailto:achalfou@uwyo.edu) (307) 766-6966  
[http://www.coopunits.org/Wyoming/People/Anna\\_Chalfoun/index.html](http://www.coopunits.org/Wyoming/People/Anna_Chalfoun/index.html)
- Steven Chipps, SD CRU [steven.chipps@sdsu.edu](mailto:steven.chipps@sdsu.edu) (605) 688-5467  
[http://www.coopunits.org/South\\_Dakota/People/Steven\\_Chipps/index.html](http://www.coopunits.org/South_Dakota/People/Steven_Chipps/index.html)
- Jaime Collazo, NC CRU [Jaime\\_Collazo@ncsu.edu](mailto:Jaime_Collazo@ncsu.edu) (919) 515-8837  
[http://www.coopunits.org/North\\_Carolina/People/Jaime\\_Collazo/index.html](http://www.coopunits.org/North_Carolina/People/Jaime_Collazo/index.html)
- Courtney Conway, ID CRU [cconway@usgs.gov](mailto:cconway@usgs.gov) (208) 885-6176  
[http://www.coopunits.org/Idaho/People/Courtney\\_Conway/index.html](http://www.coopunits.org/Idaho/People/Courtney_Conway/index.html)
- Melanie Culver, AZ CRU [culver@ag.arizona.edu](mailto:culver@ag.arizona.edu) (520) 626-3775  
[http://www.coopunits.org/Arizona/People/Melanie\\_Culver/index.html](http://www.coopunits.org/Arizona/People/Melanie_Culver/index.html)
- Stephen DeStefano, MA CRU [sdestef@eco.umass.edu](mailto:sdestef@eco.umass.edu) (413) 545-4889  
[http://www.coopunits.org/Massachusetts/People/Stephen\\_DeStefano/index.html](http://www.coopunits.org/Massachusetts/People/Stephen_DeStefano/index.html)
- Duane Diefenbach, PA CRU [ddiefenbach@psu.edu](mailto:ddiefenbach@psu.edu) (814) 865-3992  
[http://www.coopunits.org/Pennsylvania/People/Duane\\_Diefenbach/index.html](http://www.coopunits.org/Pennsylvania/People/Duane_Diefenbach/index.html)

Therese Donovan, VT CRU [tdonovan@uvm.edu](mailto:tdonovan@uvm.edu) (802) 656-2516  
[http://www.coopunits.org/Vermont/People/Terri\\_Donovan/index.html](http://www.coopunits.org/Vermont/People/Terri_Donovan/index.html)

Katie Dugger, OR CRU [Katie.dugger@oregonstate.edu](mailto:Katie.dugger@oregonstate.edu) (541) 737-2473  
[http://www.coopunits.org/Oregon/People/Katie\\_Dugger/index.html](http://www.coopunits.org/Oregon/People/Katie_Dugger/index.html)

Thomas Edwards, UT CRU [t.edwards@nr.usu.edu](mailto:t.edwards@nr.usu.edu) (435) 797-2529  
[http://www.coopunits.org/Utah/People/Thomas\\_Edwards/index.html](http://www.coopunits.org/Utah/People/Thomas_Edwards/index.html)

Jeff Falke, AK CRU [Jeffrey.Falke@alaska.edu](mailto:Jeffrey.Falke@alaska.edu) (907) 474-6044  
[http://www.coopunits.org/Alaska/People/Jeff\\_Falke/index.html](http://www.coopunits.org/Alaska/People/Jeff_Falke/index.html)

Joseph (TJ) Fontaine, NE CRU [jfontaine2@unl.edu](mailto:jfontaine2@unl.edu) (402) 472-0339  
[http://www.coopunits.org/Nebraska/People/Joseph\\_Fontaine/index.html](http://www.coopunits.org/Nebraska/People/Joseph_Fontaine/index.html)

W. Mark Ford, VA CRU [wmford@vt.edu](mailto:wmford@vt.edu) (540) 231-5927  
[http://www.coopunits.org/Virginia/People/Mark\\_Ford/index.html](http://www.coopunits.org/Virginia/People/Mark_Ford/index.html)

Angela Fuller, NY CRU [angela.fuller@cornell.edu](mailto:angela.fuller@cornell.edu) (607) 255-2841  
[http://www.coopunits.org/New\\_York/People/Angela\\_Fuller/index.html](http://www.coopunits.org/New_York/People/Angela_Fuller/index.html)

David Fulton, MN CRU [dcfulton@umn.edu](mailto:dcfulton@umn.edu) (612) 625-5256  
[http://www.coopunits.org/Minnesota/People/David\\_Fulton/index.html](http://www.coopunits.org/Minnesota/People/David_Fulton/index.html)

Larry Gigliotti, SD CRU [Larry.Gigliotti@sdsu.edu](mailto:Larry.Gigliotti@sdsu.edu) (605) 688-6717  
[http://www.coopunits.org/South\\_Dakota/People/Larry\\_Gigliotti/index.html](http://www.coopunits.org/South_Dakota/People/Larry_Gigliotti/index.html)

Tim Grabowski, TX CRU [tgabowski@usgs.gov](mailto:tgabowski@usgs.gov) (806) 742-2851  
[http://www.coopunits.org/Texas/People/Tim\\_Grabowski/index.html](http://www.coopunits.org/Texas/People/Tim_Grabowski/index.html)

Barry Grand, AL CRU [grandjb@auburn.edu](mailto:grandjb@auburn.edu) (334) 844-4796  
[http://www.coopunits.org/Alabama/People/Barry\\_Grand/index.html](http://www.coopunits.org/Alabama/People/Barry_Grand/index.html)

Brad Griffith, AK CRU [dbgriiffith@alaska.edu](mailto:dbgriiffith@alaska.edu) (907) 474-5067  
[http://www.coopunits.org/Alaska/People/Brad\\_Griffith/index.html](http://www.coopunits.org/Alaska/People/Brad_Griffith/index.html)

Christopher Guy, MT Fish CRU [cguy@montana.edu](mailto:cguy@montana.edu) (406) 994-3491  
[http://www.coopunits.org/Montana\\_Fish/People/Christopher\\_Guy/index.html](http://www.coopunits.org/Montana_Fish/People/Christopher_Guy/index.html)

David Haukos, KS CRU [dhaukos@ksu.edu](mailto:dhaukos@ksu.edu) (785) 532-5761  
[http://www.coopunits.org/Kansas/People/Dave\\_Haukos/index.html](http://www.coopunits.org/Kansas/People/Dave_Haukos/index.html)

Mevin Hooten, CO CRU [Mevin.Hooten@colostate.edu](mailto:Mevin.Hooten@colostate.edu) (970) 491-1415  
[http://www.coopunits.org/Colorado/People/Mevin\\_Hooten/index.html](http://www.coopunits.org/Colorado/People/Mevin_Hooten/index.html)

Brian Irwin, GA CRU [Irwin@uga.edu](mailto:Irwin@uga.edu) (706) 542-0790  
[http://www.coopunits.org/Georgia/People/Brian\\_Irwin/index.html](http://www.coopunits.org/Georgia/People/Brian_Irwin/index.html)

Elise Irwin, AL CRU [irwiner@auburn.edu](mailto:irwiner@auburn.edu) (334) 844-4796  
[http://www.coopunits.org/Alabama/People/Elise\\_Irwin/index.html](http://www.coopunits.org/Alabama/People/Elise_Irwin/index.html)

Daniel Isermann, WI Fish CRU [Dan.Isermann@uwsp.edu](mailto:Dan.Isermann@uwsp.edu) (715) 346-3221  
[http://www.coopunits.org/Wisconsin\\_Fish/People/Dan\\_Isermann/index.html](http://www.coopunits.org/Wisconsin_Fish/People/Dan_Isermann/index.html)

Cecil Jennings GA CRU [Jennings@uga.edu](mailto:Jennings@uga.edu) (706) 542-4837  
[http://www.coopunits.org/Georgia/People/Cecil\\_Jennings/index.html](http://www.coopunits.org/Georgia/People/Cecil_Jennings/index.html)

Patrick Jodice, SC CRU [pjodice@clermson.edu](mailto:pjodice@clermson.edu) (864) 656-6190  
[http://www.coopunits.org/South\\_Carolina/People/Patrick\\_Jodice/index.html](http://www.coopunits.org/South_Carolina/People/Patrick_Jodice/index.html)

Matthew Kauffman, WY CRU [mkauffm1@uwyo.edu](mailto:mkauffm1@uwyo.edu) (307) 766-6404  
[http://www.coopunits.org/Wyoming/People/Matthew\\_Kauffman/index.html](http://www.coopunits.org/Wyoming/People/Matthew_Kauffman/index.html)

Bill Kendall, CO CRU [William.Kendall@colostate.edu](mailto:William.Kendall@colostate.edu) (970) 491-7066  
[http://www.coopunits.org/Colorado/People/Bill\\_Kendall/index.html](http://www.coopunits.org/Colorado/People/Bill_Kendall/index.html)

Sammy King, LA CRU [sking16@lsu.edu](mailto:sking16@lsu.edu) (225) 578-7564  
[http://www.coopunits.org/Louisiana/People/Sammy\\_King/index.html](http://www.coopunits.org/Louisiana/People/Sammy_King/index.html)

Robert Klaver, IA CRU [bklaver@iastate.edu](mailto:bklaver@iastate.edu) (515) 294-7639  
[http://www.coopunits.org/Iowa/People/Bob\\_Klaver/index.html](http://www.coopunits.org/Iowa/People/Bob_Klaver/index.html)

David Kremenz, AR CRU [Kremenz@uark.edu](mailto:Kremenz@uark.edu) (479) 575-7560  
[http://www.coopunits.org/Arkansas/People/David\\_Kremenz/index.html](http://www.coopunits.org/Arkansas/People/David_Kremenz/index.html)

Thomas Kwak, NC CRU [tkwak@ncsu.edu](mailto:tkwak@ncsu.edu) (919) 513-2696  
[http://www.coopunits.org/North\\_Carolina/People/Thomas\\_Kwak/index.html](http://www.coopunits.org/North_Carolina/People/Thomas_Kwak/index.html)

Megan La Peyre, LA CRU [mlapey@lsu.edu](mailto:mlapey@lsu.edu) (225) 578-4180  
[http://www.coopunits.org/Louisiana/People/Megan\\_La\\_Peyre/index.html](http://www.coopunits.org/Louisiana/People/Megan_La_Peyre/index.html)

David Leslie, OK CRU [cleslie@usgs.gov](mailto:cleslie@usgs.gov) (405) 744-6342  
[http://www.coopunits.org/Oklahoma/People/David\\_\(Chip\)\\_Leslie\\_/index.html](http://www.coopunits.org/Oklahoma/People/David_(Chip)_Leslie_/index.html)

Cynthia Loftin, ME CRU [Cynthia.loftin@maine.edu](mailto:Cynthia.loftin@maine.edu) (207) 581-2843  
[http://www.coopunits.org/Maine/People/Cyndy\\_Loftin/index.html](http://www.coopunits.org/Maine/People/Cyndy_Loftin/index.html)

Jim Long, OK CRU [longjm@okstate.edu](mailto:longjm@okstate.edu) (405) 744-6342  
[http://www.coopunits.org/Oklahoma/People/Jim\\_Long/index.html](http://www.coopunits.org/Oklahoma/People/Jim_Long/index.html)

Daniel Magoulick, AR CRU [danmag@uark.edu](mailto:danmag@uark.edu) (479) 575-5449  
[http://www.coopunits.org/Arkansas/People/Dan\\_Magoulick/index.html](http://www.coopunits.org/Arkansas/People/Dan_Magoulick/index.html)

Thomas Martin, MT Wildlife CRU [Tom.martin@umontana.edu](mailto:Tom.martin@umontana.edu) (406) 243-5372  
[http://www.coopunits.org/Montana\\_Wildlife/People/Thomas\\_Martin/index.html](http://www.coopunits.org/Montana_Wildlife/People/Thomas_Martin/index.html)

Martha Mather, KS CRU [mmather@ksu.edu](mailto:mmather@ksu.edu) (785) 532-6522  
[http://www.coopunits.org/Kansas/People/Martha\\_Mather/index.html](http://www.coopunits.org/Kansas/People/Martha_Mather/index.html)

Patricia Mazik, WV CRU [pmazik@wvu.edu](mailto:pmazik@wvu.edu) (304) 293-4943  
[http://www.coopunits.org/West\\_Virginia/People/Pat\\_Mazik/index.html](http://www.coopunits.org/West_Virginia/People/Pat_Mazik/index.html)

Conor McGowan, AL CRU [cmcgowan@usgs.gov](mailto:cmcgowan@usgs.gov) (334) 844-9231  
[http://www.coopunits.org/Alabama/People/Conor\\_McGowan/index.html](http://www.coopunits.org/Alabama/People/Conor_McGowan/index.html)

A. David McGuire, AK CRU [adm McGuire@alaska.edu](mailto:adm McGuire@alaska.edu) (907) 474-6242  
[http://www.coopunits.org/Alaska/People/Dave\\_McGuire/index.html](http://www.coopunits.org/Alaska/People/Dave_McGuire/index.html)

Esteban Miranda, MS CRU [smiranda@cfr.msstate.edu](mailto:smiranda@cfr.msstate.edu) (662) 325-3217  
[http://www.coopunits.org/Mississippi/People/Leandro\\_Miranda/index.html](http://www.coopunits.org/Mississippi/People/Leandro_Miranda/index.html)

Mike Mitchell, MT Wildlife CRU [Mike.Mitchell@umontana.edu](mailto:Mike.Mitchell@umontana.edu) (406) 243-5372  
[http://www.coopunits.org/Montana\\_Wildlife/People/Mike\\_Mitchell/index.html](http://www.coopunits.org/Montana_Wildlife/People/Mike_Mitchell/index.html)

Christine Moffitt, ID CRU [cmoffitt@uidaho.edu](mailto:cmoffitt@uidaho.edu) (208) 885-7047  
[http://www.coopunits.org/Idaho/People/Christine\\_Moffitt/index.html](http://www.coopunits.org/Idaho/People/Christine_Moffitt/index.html)

Clint Moore, GA CRU [cmoore@warnell.uga.edu](mailto:cmoore@warnell.uga.edu) (706) 542-1166  
[http://www.coopunits.org/Georgia/People/Clinton\\_Moore/index.html](http://www.coopunits.org/Georgia/People/Clinton_Moore/index.html)

Abby Powell, FL CRU [abby.powell@alaska.edu](mailto:abby.powell@alaska.edu) (907) 474-5505  
[http://www.coopunits.org/Alaska/People/Abby\\_Powell/index.html](http://www.coopunits.org/Alaska/People/Abby_Powell/index.html)

Michael Quist, ID CRU [mcquist@uidaho.edu](mailto:mcquist@uidaho.edu) (208) 885-4064  
[http://www.coopunits.org/Idaho/People/Michael\\_Quist/index.html](http://www.coopunits.org/Idaho/People/Michael_Quist/index.html)

Donna Parrish, VT CRU [Donna.Parrish@uvm.edu](mailto:Donna.Parrish@uvm.edu) (802) 656-2693  
[http://www.coopunits.org/Vermont/People/Donna\\_Parrish/index.html](http://www.coopunits.org/Vermont/People/Donna_Parrish/index.html)

Reynaldo Patino, TX CRU [Reynaldo.patino@ttu.edu](mailto:Reynaldo.patino@ttu.edu) (806) 834-6483  
[http://www.coopunits.org/Texas/People/Reynaldo\\_Pati&ntilde;o/index.html](http://www.coopunits.org/Texas/People/Reynaldo_Pati&ntilde;o/index.html)

Craig Paukert, MO CRU [paukerc@missouri.edu](mailto:paukerc@missouri.edu) (573) 882-3524  
[http://www.coopunits.org/Missouri/People/Craig\\_Paukert/index.html](http://www.coopunits.org/Missouri/People/Craig_Paukert/index.html)

James Peterson, OR CRU [jt.peterson@oregonstate.edu](mailto:jt.peterson@oregonstate.edu) (541) 737-1963  
[http://www.coopunits.org/Oregon/People/Jim\\_Peterson/index.html](http://www.coopunits.org/Oregon/People/Jim_Peterson/index.html)

Clay Pierce, IA CRU [cpierce@iastate.edu](mailto:cpierce@iastate.edu) (515) 294-3159  
[http://www.coopunits.org/Iowa/People/Clay\\_Pierce/index.html](http://www.coopunits.org/Iowa/People/Clay_Pierce/index.html)

Kevin Pope, NE CRU [kpope2@unl.edu](mailto:kpope2@unl.edu) (402) 472-7028  
[http://www.coopunits.org/Nebraska/People/Kevin\\_Pope/index.html](http://www.coopunits.org/Nebraska/People/Kevin_Pope/index.html)

Abby Powell, FL CRU [abbypowell@ufl.edu](mailto:abbypowell@ufl.edu) (352) 846-0543  
[http://www.coopunits.org/Alaska/People/Abby\\_Powell/index.html](http://www.coopunits.org/Alaska/People/Abby_Powell/index.html)

Christine Ribic, WI Wildlife CRU [caribic@wisc.edu](mailto:caribic@wisc.edu) (608) 263-4519  
[http://www.coopunits.org/Wisconsin\\_Wildlife/People/Christine\\_Ribic/index.html](http://www.coopunits.org/Wisconsin_Wildlife/People/Christine_Ribic/index.html)

Daniel Roby, OR CRU [Daniel.roby@oregonstate.edu](mailto:Daniel.roby@oregonstate.edu) (541) 737-1955  
[http://www.coopunits.org/Oregon/People/Daniel\\_Roby/index.html](http://www.coopunits.org/Oregon/People/Daniel_Roby/index.html)

Amanda Rosenberger, MO CRU [rosenbergera@missouri.edu](mailto:rosenbergera@missouri.edu) (573) 882-9653  
[http://www.coopunits.org/Missouri/People/Amanda\\_Rosenberger/index.html](http://www.coopunits.org/Missouri/People/Amanda_Rosenberger/index.html)

Allison Roy, MA CRU [aroy@eco.umass.edu](mailto:aroy@eco.umass.edu) (413) 545-4895  
[http://www.coopunits.org/Massachusetts/People/Allison\\_Roy/index.html](http://www.coopunits.org/Massachusetts/People/Allison_Roy/index.html)

Michael Samuel, WI Wildlife CRU [mdsamuel@wisc.edu](mailto:mdsamuel@wisc.edu) (608) 263-6882  
[http://www.coopunits.org/Wisconsin\\_Wildlife/People/Mike\\_Samuel/index.html](http://www.coopunits.org/Wisconsin_Wildlife/People/Mike_Samuel/index.html)

Harold Schramm, MS CRU [hschramm@cfr.msstate.edu](mailto:hschramm@cfr.msstate.edu) (662) 325-7495  
[http://www.coopunits.org/Mississippi/People/Hal\\_Schramm/index.html](http://www.coopunits.org/Mississippi/People/Hal_Schramm/index.html)

Carl Schreck, OR CRU [carl.schreck@oregonstate.edu](mailto:carl.schreck@oregonstate.edu) (541) 737-1938  
[http://www.coopunits.org/Oregon/People/Carl\\_Schreck/index.html](http://www.coopunits.org/Oregon/People/Carl_Schreck/index.html)

Theodore Simons, NC CRU [tsimons@ncsu.edu](mailto:tsimons@ncsu.edu) (919) 515-2689  
[http://www.coopunits.org/North\\_Carolina/People/Ted\\_Simons/index.html](http://www.coopunits.org/North_Carolina/People/Ted_Simons/index.html)

Joshua Stafford, SD CRU [Joshua.stafford@sdsu.edu](mailto:Joshua.stafford@sdsu.edu) (605) 688-5759  
[http://www.coopunits.org/South\\_Dakota/People/Joshua\\_Stafford/index.html](http://www.coopunits.org/South_Dakota/People/Joshua_Stafford/index.html)

Glenn VanBlaricom, WA CRU [glennvb@uw.edu](mailto:glennvb@uw.edu) (206) 543-6475  
[http://www.coopunits.org/Washington/People/Glenn\\_VanBlaricom/index.html](http://www.coopunits.org/Washington/People/Glenn_VanBlaricom/index.html)

Francisco Vilella, MS CRU [fvilella@cfr.msstate.edu](mailto:fvilella@cfr.msstate.edu) (662) 325-0784  
[http://www.coopunits.org/Mississippi/People/Francisco\\_Vilella/index.html](http://www.coopunits.org/Mississippi/People/Francisco_Vilella/index.html)

Tyler Wagner, PA CRU [txw19@psu.edu](mailto:txw19@psu.edu) (814) 865-6592  
[http://www.coopunits.org/Pennsylvania/People/Tyler\\_Wagner/index.html](http://www.coopunits.org/Pennsylvania/People/Tyler_Wagner/index.html)

W. David Walter, PA CRU [wdwalter@psu.edu](mailto:wdwalter@psu.edu) (814) 867-4763  
[http://www.coopunits.org/Pennsylvania/People/David\\_Walter/index.html](http://www.coopunits.org/Pennsylvania/People/David_Walter/index.html)

Annika Walters, WY CRU [awalter8@uwyo.edu](mailto:awalter8@uwyo.edu) (307) 766-5473  
[http://www.coopunits.org/Wyoming/People/Annika\\_Walters/index.html](http://www.coopunits.org/Wyoming/People/Annika_Walters/index.html)

Elisabeth Webb, MO CRU [webbli@missouri.edu](mailto:webbli@missouri.edu) (573) 882-2591  
[http://www.coopunits.org/Missouri/People/Lisa\\_Webb/index.html](http://www.coopunits.org/Missouri/People/Lisa_Webb/index.html)

Stuart Welsh, WV CRU [swelsh@wvu.edu](mailto:swelsh@wvu.edu) (304) 293-5006  
[http://www.coopunits.org/West\\_Virginia/People/Stuart\\_Welsh/index.html](http://www.coopunits.org/West_Virginia/People/Stuart_Welsh/index.html)

Mark Wifli, AK CRU [mark.wifli@alaska.edu](mailto:mark.wifli@alaska.edu) (907) 474-6654  
[http://www.coopunits.org/Alaska/People/Mark\\_Wifli/index.html](http://www.coopunits.org/Alaska/People/Mark_Wifli/index.html)

Margaret Wilzbach, CA CRU [wilzbach@humboldt.edu](mailto:wilzbach@humboldt.edu) (707) 826-5645  
[http://www.coopunits.org/California/People/Peggy\\_Wilzbach/index.html](http://www.coopunits.org/California/People/Peggy_Wilzbach/index.html)

Dana Winkelman, CO CRU [Dana.Winkelman@colostate.edu](mailto:Dana.Winkelman@colostate.edu) (970) 491-1414  
[http://www.coopunits.org/Colorado/People/Dana\\_Winkelman/index.html](http://www.coopunits.org/Colorado/People/Dana_Winkelman/index.html)

Petra Wood, WV CRU [pbwood@wvu.edu](mailto:pbwood@wvu.edu) (304) 293-5090  
[http://www.coopunits.org/West\\_Virginia/People/Petra\\_Wood/index.html](http://www.coopunits.org/West_Virginia/People/Petra_Wood/index.html)

Alexander Zale, MT Fish CRU [zale@montana.edu](mailto:zale@montana.edu) (406) 994-2380  
[http://www.coopunits.org/Montana\\_Fish/People/Alexander\\_Zale/index.html](http://www.coopunits.org/Montana_Fish/People/Alexander_Zale/index.html)  
Joseph Zydlewski, ME CRU [jzydlewski@usgs.gov](mailto:jzydlewski@usgs.gov) (207) 581-2853  
[http://www.coopunits.org/Maine/People/Joseph\\_Zydlewski/index.html](http://www.coopunits.org/Maine/People/Joseph_Zydlewski/index.html)

## Senior Headquarters Staff

John F. Organ, Chief [jorgan@usgs.gov](mailto:jorgan@usgs.gov) (703) 648-4261  
[http://www.coopunits.org/Headquarters/People/John\\_Organ/index.html](http://www.coopunits.org/Headquarters/People/John_Organ/index.html)  
John D. Thompson, Deputy Chief [jthompson@usgs.gov](mailto:jthompson@usgs.gov) (703) 648-4262  
[http://www.coopunits.org/Headquarters/People/John\\_Thompson/index.html](http://www.coopunits.org/Headquarters/People/John_Thompson/index.html)  
Kevin Whalen, Unit Supervisor (South) [kwhalen@usgs.gov](mailto:kwhalen@usgs.gov) (703) 269-7711  
Michael Tome, Unit Supervisor (North) [mtome@usgs.gov](mailto:mtome@usgs.gov) (571) 334-9215  
[http://www.coopunits.org/Headquarters/People/Mike\\_Tome/index.html](http://www.coopunits.org/Headquarters/People/Mike_Tome/index.html)  
F. Joseph Margraf, Unit Supervisor (West) [fmargraf@usgs.gov](mailto:fmargraf@usgs.gov) (303) 656-0906  
Rita Raines, Administrative Officer [rraines@usgs.gov](mailto:rraines@usgs.gov) (702) 648-6967  
[http://www.coopunits.org/Headquarters/People/Rita\\_Raines/index.html](http://www.coopunits.org/Headquarters/People/Rita_Raines/index.html)  
Don Dennerline, Biologist [don\\_dennerline@usgs.gov](mailto:don_dennerline@usgs.gov) (706) 542-4988  
[http://www.coopunits.org/Headquarters/People/Don\\_Dennerline/index.html](http://www.coopunits.org/Headquarters/People/Don_Dennerline/index.html)