

Building A Coalition For Conservation Under Climate Change

Olivia E. LeDee

Forest and Wildlife Ecology
University of Wisconsin-Madison

Acknowledgments

Karl Martin and Michael Meyer, Wisconsin DNR

Christine Ribic, USGS Wisconsin Cooperative Wildlife
Research Unit

Bill Karasov and Tim Van Deelen, UW-Madison

WI Department of Natural Resources, U.S. Fish and Wildlife
Service, U.S. Geological Survey

Wisconsin Initiative on Climate Change Impacts and
Climate and Wildlife Working Group members

UW-Madison, Department of Forest and Wildlife Ecology

Outline

- I. Wisconsin Initiative on Climate Change Impacts
- II. Wildlife Working Group
- III. Reflections

Early Movement...

- Questions from state legislators
- Concerns expressed by natural resource managers



Joint meeting between UW-Madison and WI DNR scientists and managers (Summer 2007)



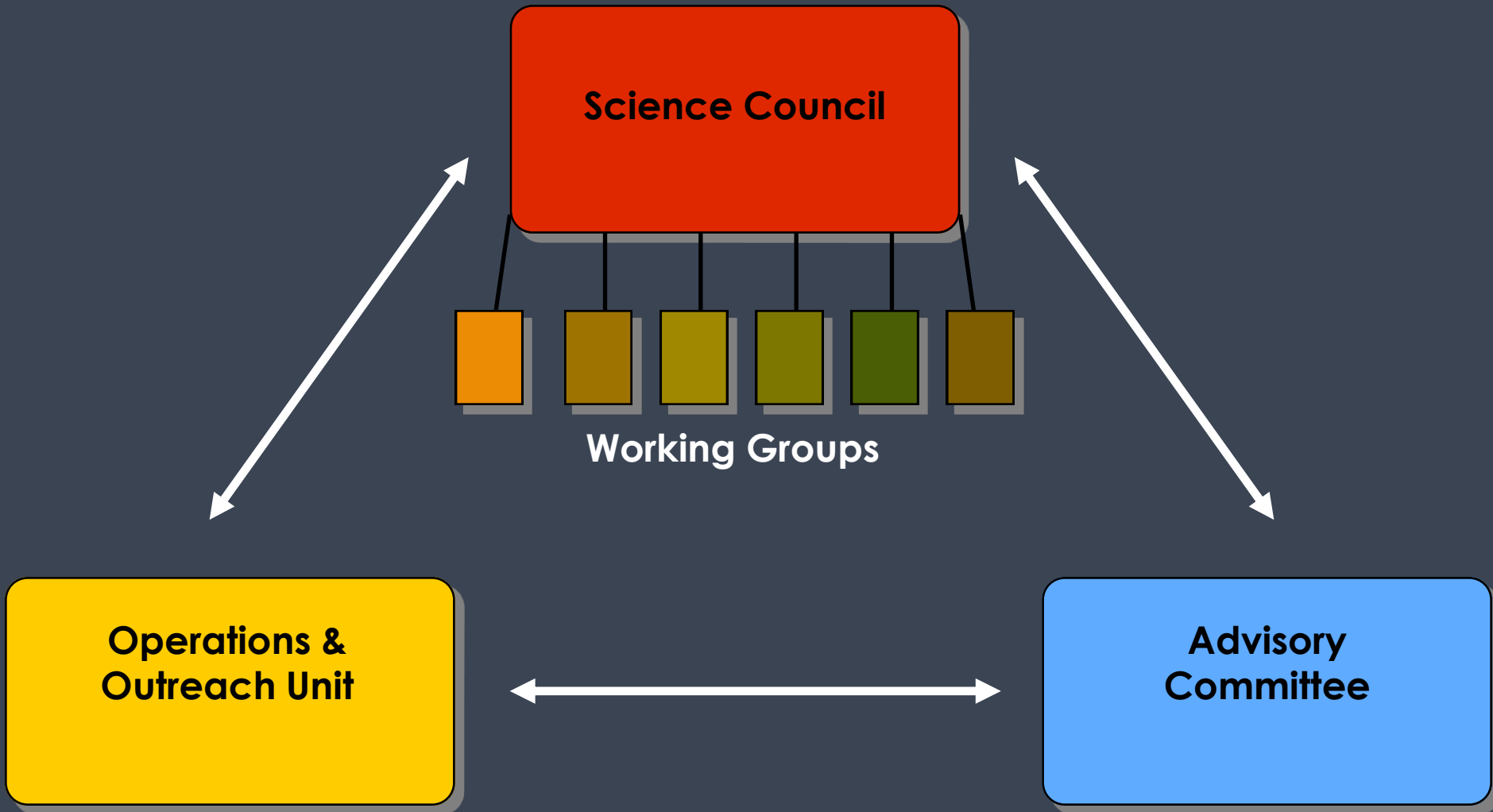
**WISCONSIN
INITIATIVE ON
CLIMATE
CHANGE
IMPACTS**



The University of Wisconsin,
The Wisconsin Department of Natural Resources
Other agencies and institutions

- 1) assesses and anticipate climate change impacts on specific Wisconsin natural resources
- 2) evaluate potential effects on industry, agriculture, tourism and other human activities
- 3) develop and recommend adaptation strategies

Structure



Science Council

Representatives from UW System, the WDNR and other state and federal agencies, universities, NGOs and institutions

- 1) Identify critical or emerging scientific questions related to the mission of WICCI
- 2) Organize and coordinate Working Groups
- 3) Provide leadership on climate change impact issues in Wisconsin

Operations & Outreach Unit

Logistical support and performs outreach functions related to the mission of WICCI (Nelson Institute for Environmental Studies)

Advisory Committee

Representatives of business interests, non-governmental organizations, municipalities, agencies, and other stakeholders



The screenshot shows the website <http://www.wicci.wisc.edu/resources.php>. The page features a red header with the WICCI logo and navigation links for "Climate Change", "Impacts", "Adaptation", and "Resources". Below the header, there is a large banner image of a bookshelf with the word "RESOURCES" overlaid. The main content area includes a description of the Resources section, a search bar, and a list of resources. The list has columns for Title, Doc Type, Author, and Date Added. A sidebar on the right shows "All Resources (92)" and "meeting minutes (25)".

WISCONSIN INITIATIVE ON CLIMATE CHANGE IMPACTS

About WICCI | Contacts | Enter Search

Climate Change | Impacts | Adaptation | Resources

Resources | Publications | News | Events & Meetings

RESOURCES

The Resources section is a space for WICCI affiliates to share documents, presentations, and other information with concerned citizens. Materials will be posted here regularly.

Visit News and Upcoming Events to see what is happening with WICCI.

Show 10 entries

Search:

Title	Doc Type	Author	Date Added
Climate Change and Runoff Management in Wisconsin	Presentation	David Liebl	2011-05-11
Adapting to Wisconsin's Changing Climate			

Tags

All Resources (92)

meeting minutes (25)

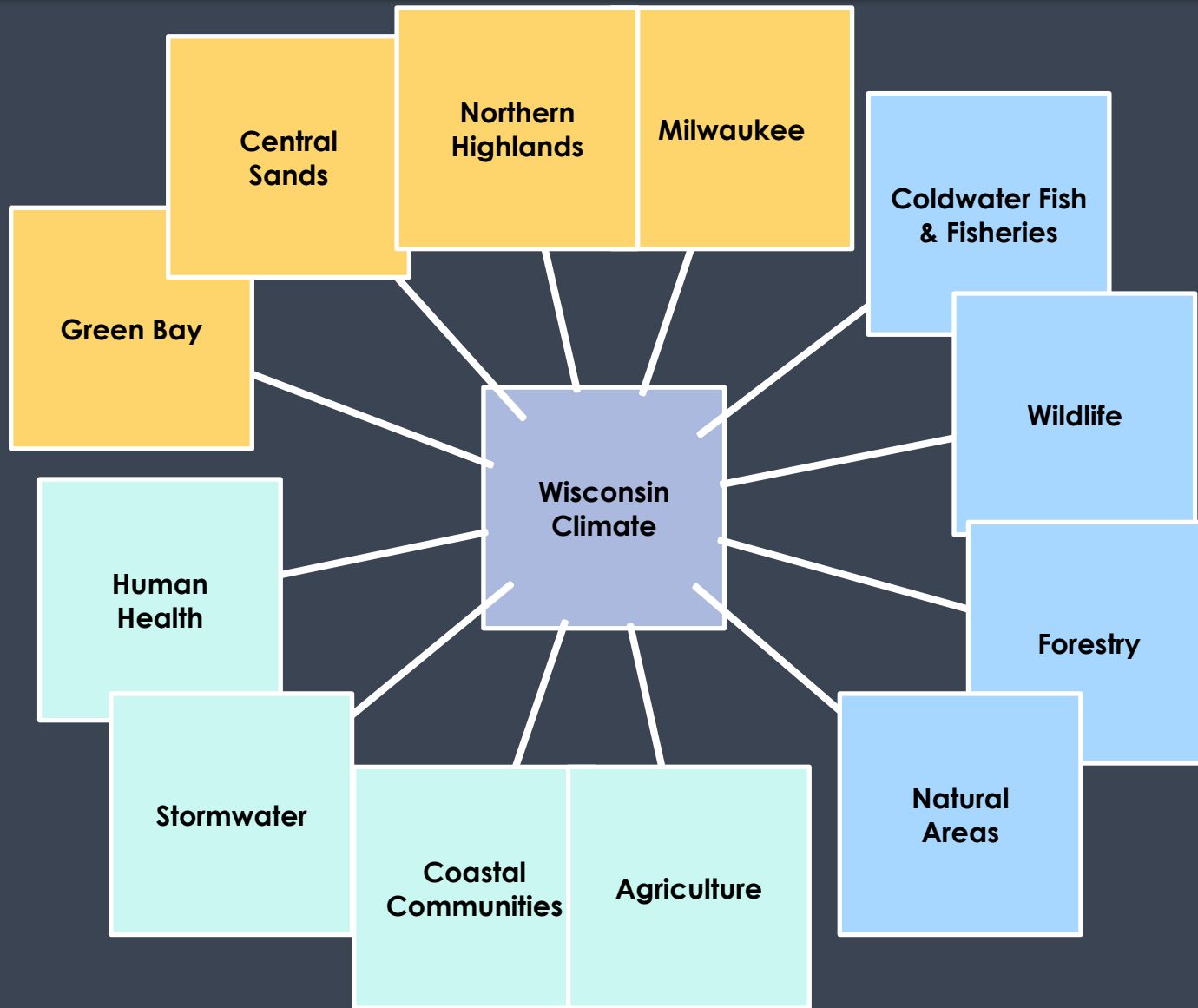


Working Groups

Scientists and practitioners from UW System, the WDNR and other state and federal agencies, universities, NGOs and institutions

- 1) Identify potential risks and vulnerabilities pertinent to topic area or region
- 2) Summarize existing information on climate change impacts
- 3) Identify data and research needed to assess future impacts
- 4) Recommend adaptation strategies

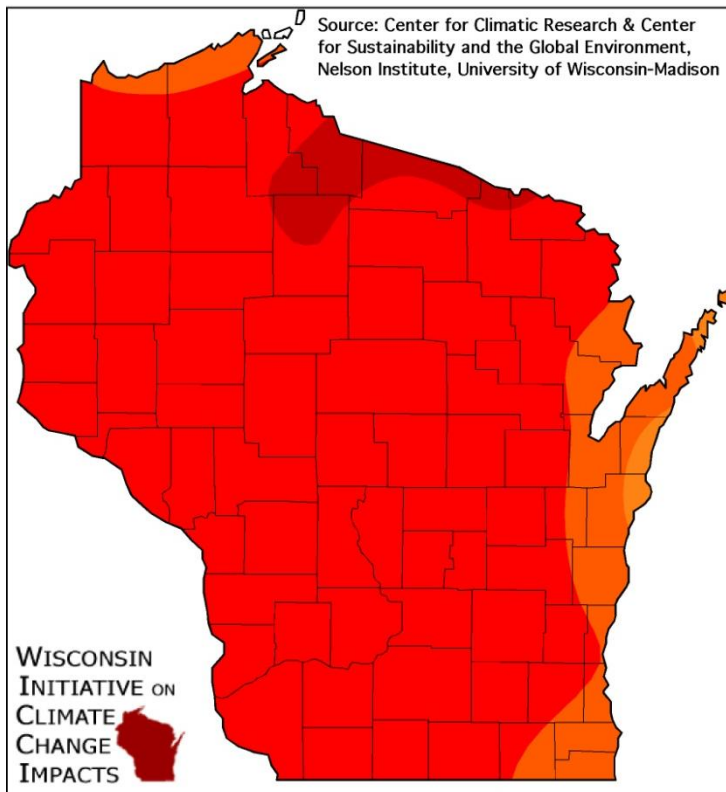
Working Groups



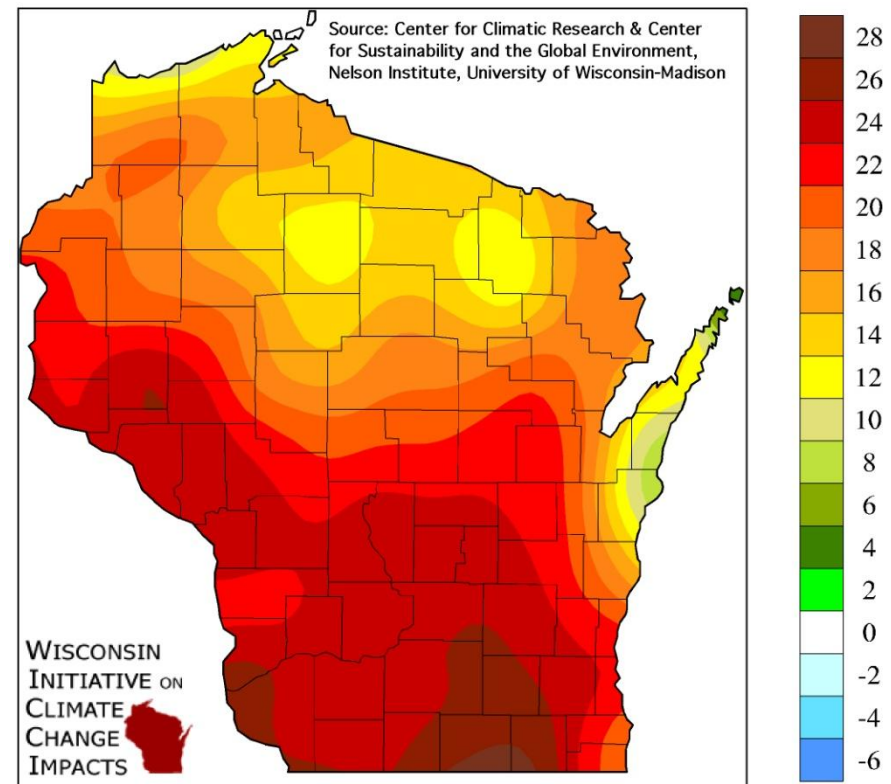
Climate

Scientists from UW Dept. of Atmospheric and Oceanic Sciences and Center for Climatic Research

Projected Change in Annual Average Temperature (°F) from 1980 to 2055



Projected Change in the frequency of $\geq 90^\circ\text{F}$ days per year from 1980 to 2055



Wildlife

>40 scientists and managers from WI
DNR, UW, USGS, FWS, TNC, USFS

Co-chairs: Karl Martin, Mike Meyer

Research Associate: Olivia LeDee (joint funding)

- 1) Outline current knowledge and identify information gaps
- 2) Conduct a risk assessment identifying likely threats to Wisconsin's wildlife
- 3) Develop adaptive management strategies

Objective I: What we know...



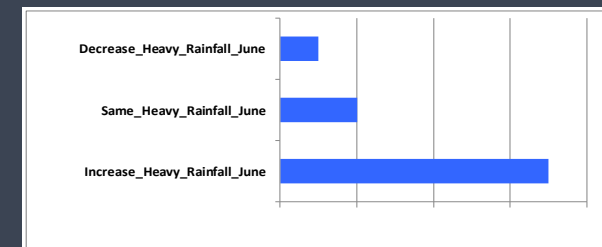
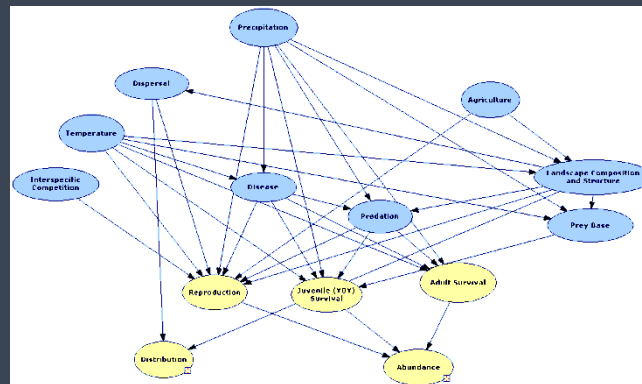
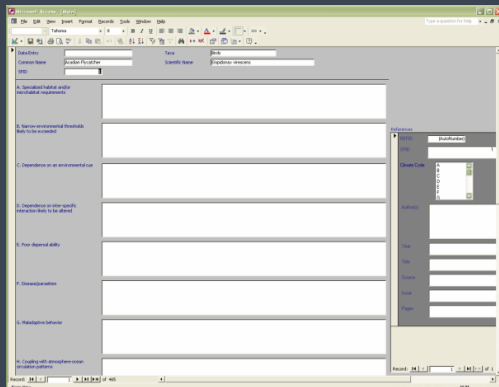
John Daddsman, WI DNR



Lesia Kardash.

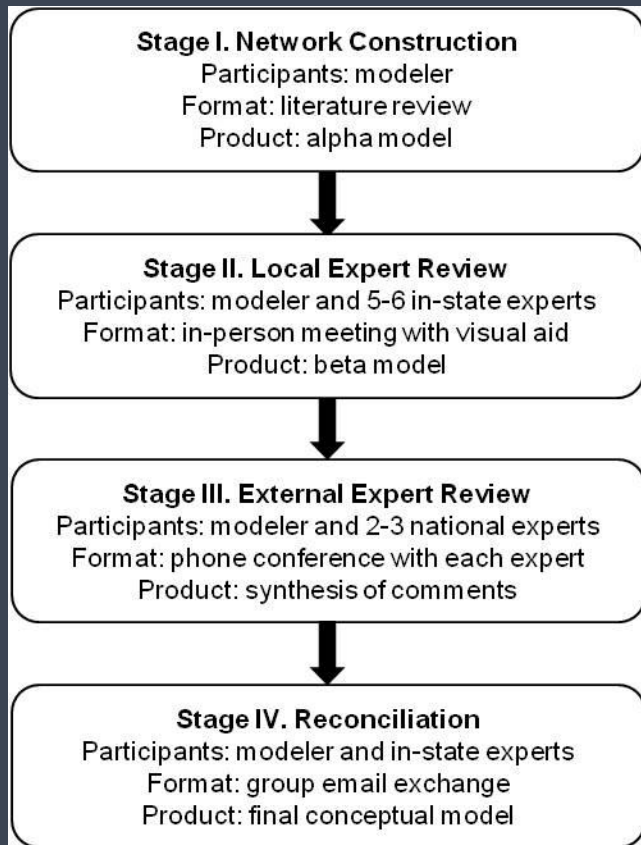
Objective II: Assessment

- 1) Screen 463 species for sensitivity to climate change
- 2) Produce detailed conceptual models for a subset of species
- 3) Quantify models where resources and data permit

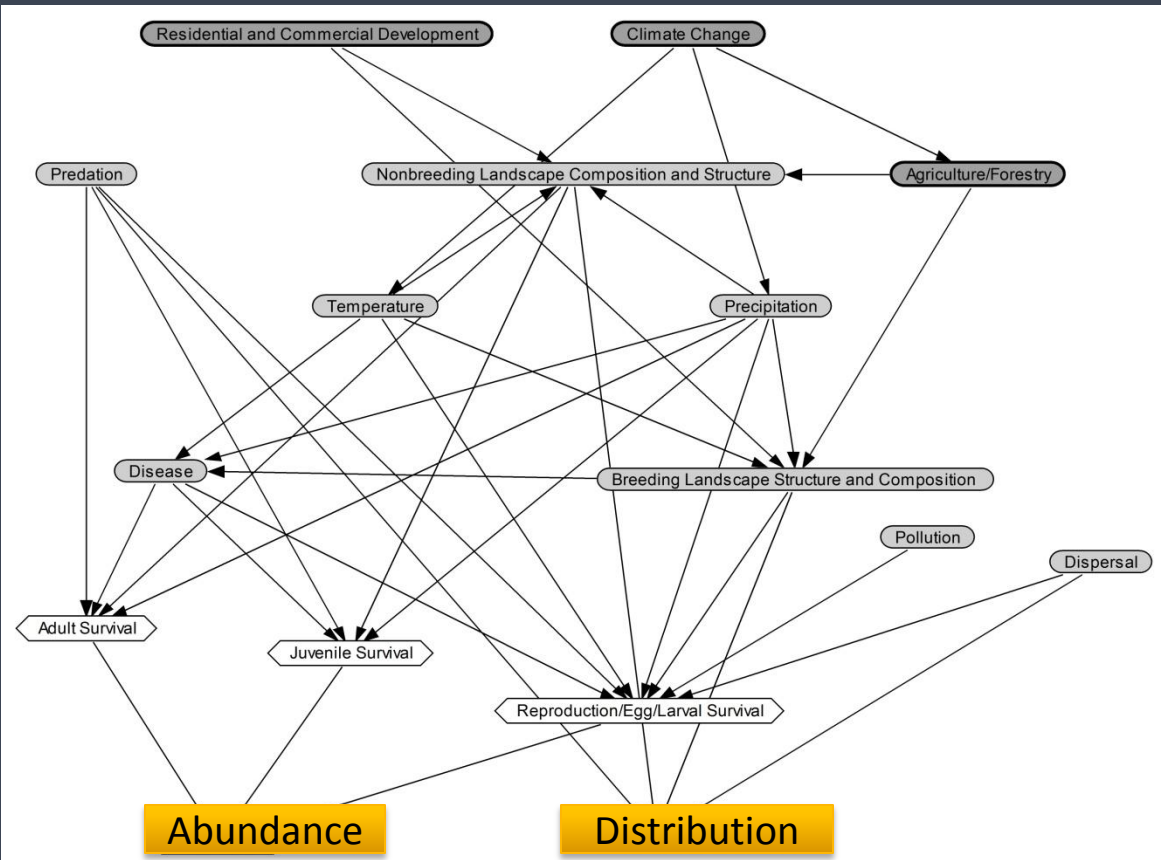


To Date...

Stages of collaborative, structured process



Final conceptual Bayesian network for the wood frog



Objective III: Adaption Planning

Forthcoming, 2012





Challenges...

- Multiple disciplines
- Varied backgrounds/roles - researchers, managers, policymakers, and non-scientists
- Few-no structural incentives
- Intergenerational disparity
- Sharing of ideas – intellectual integrity
- Group formation and collaboration
- Expectations

What worked...

- Experience working together (i.e. trust)
- Funding (shared resources)
- Interdisciplinary experience
- Cross-agency supervisors
- Early input
- Regular meetings
- Institutional culture
- Longer timeline

Looking back...

- Climate Data → Assessment
- Poor integration of practitioners
- Poor integration of social sciences
- Process skills
- Working group overlap
- Reconcile conflicting findings
- Peer review
- Anticipate/prepare for conflict
- What happens after “the big event”

Successful collaboration...

1. Get good quality information
2. Mobilize and develop capable people from a spectrum of interests
3. Provide them with opportunities for interaction and exploration (and incentives)
4. Enable them to implement solutions in a way that mobilizes resources and shares ownership
5. Mix thoroughly, provide adequate resources, and stand out of the way