



Karner Blue Butterfly HCP

Progress Report

1994 – 2010

April 7, 2010

Overview

- 1994-1999 Stage 1 – HCP Development
- 1999–2009 Stage 2 – Implementation
 - 1999-2001 - Getting started
 - 2001-2003 - Gaining Experience (and data)
 - 2003-2005 - Begin Streamlining
 - 2005-2009 - The 5-Point Plan
- 2009 Renew Permit
- 2010-20__ Stage 3 – Performing (stability)
(Recovery?)

2005-2009

The 5-Point Plan

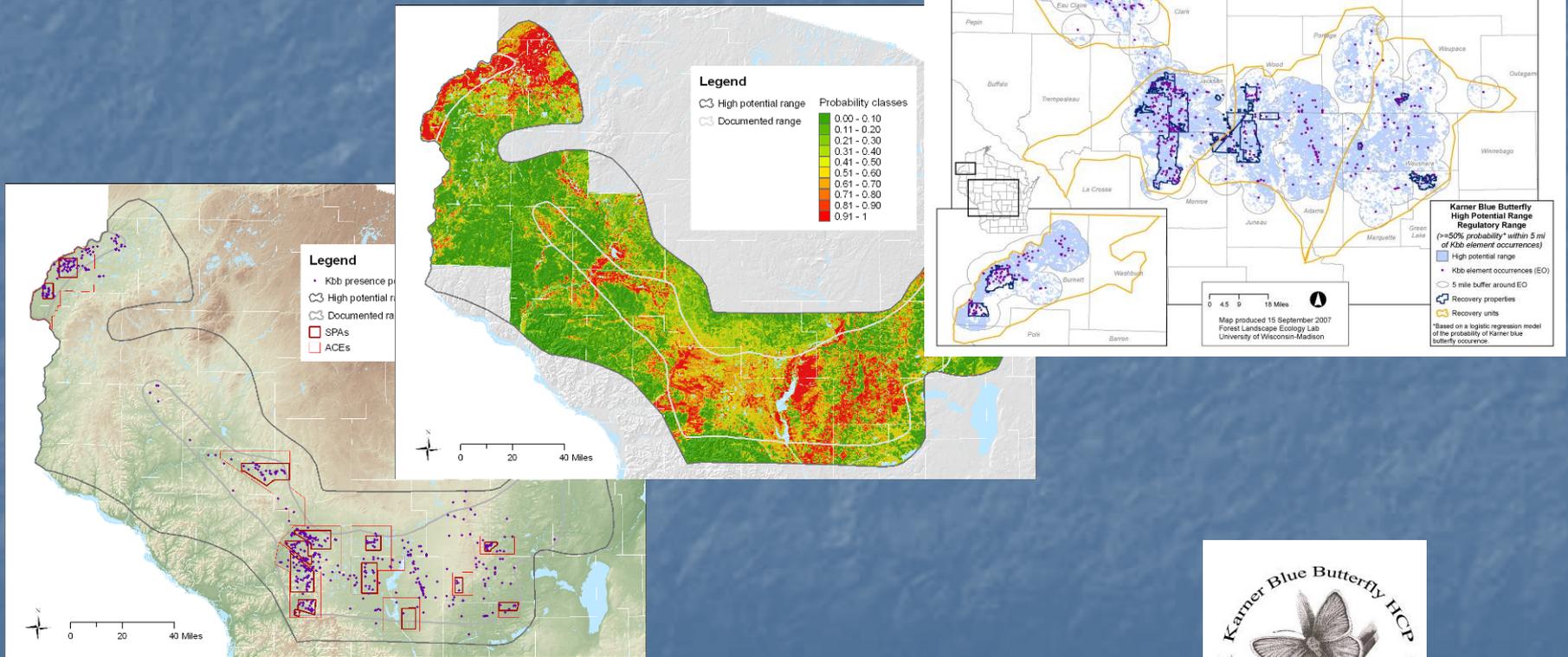
The 5 Point Plan is a formal structured approach to adaptive management

- The HCP proved to be complex
- Adaptive management was helter-skelter
- Needed a structured approach
- Partners endorsed this idea at 2006 HCP Team meeting

The 5-Points

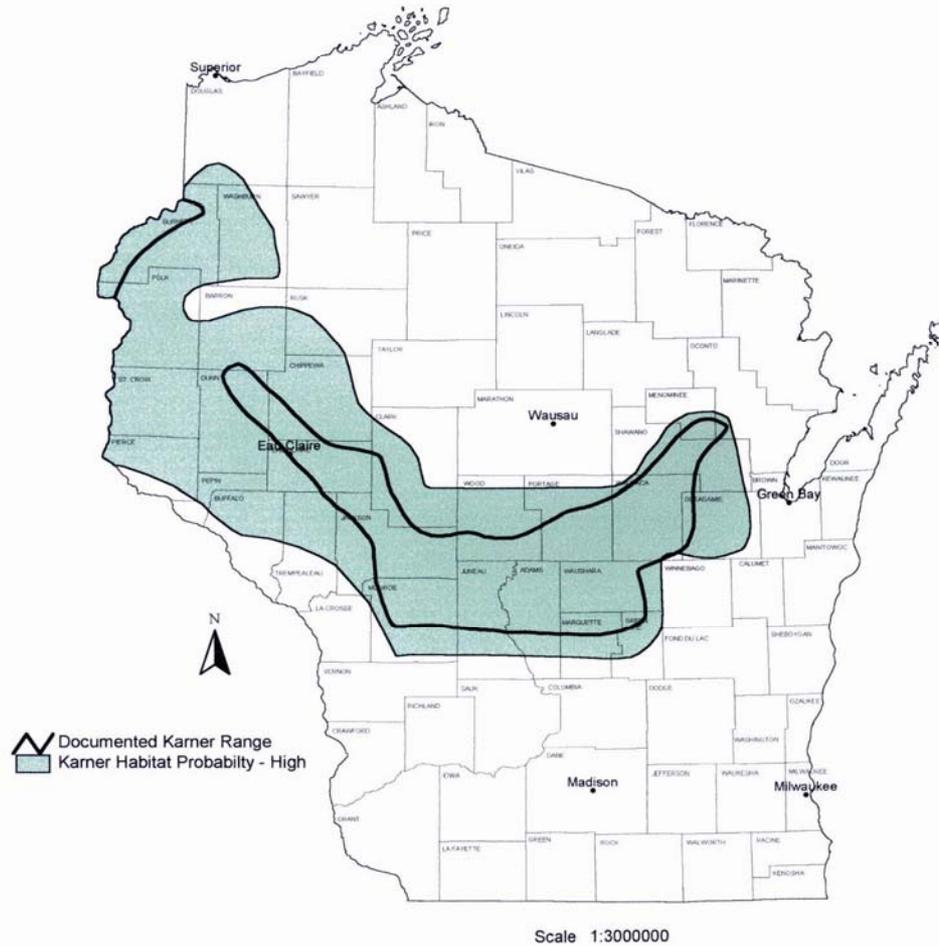
- Point 1 – Focus where it is important (where Kbb are and especially recovery areas)
- Point 2 – Streamline Processes
- Point 3 – Improve HCP Guidelines and Protocols
- Point 4 – Support Recovery
- Point 5 – Renew the Permit

1. Focus on what's important



Karner Blue Butterfly

High Potential Habitat and Documented Range In Wisconsin



The Wisconsin Karner Blue Butterfly Habitat Conservation Planning Team has determined and approved the range and habitat probability of the Karner in the state of Wisconsin. This information has been developed to aid in the planning of the statewide Karner HCP. 11/12/96

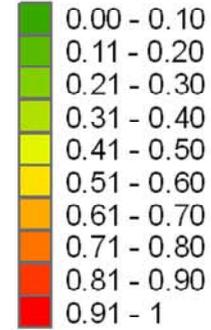
KBB Probability Model

Legend

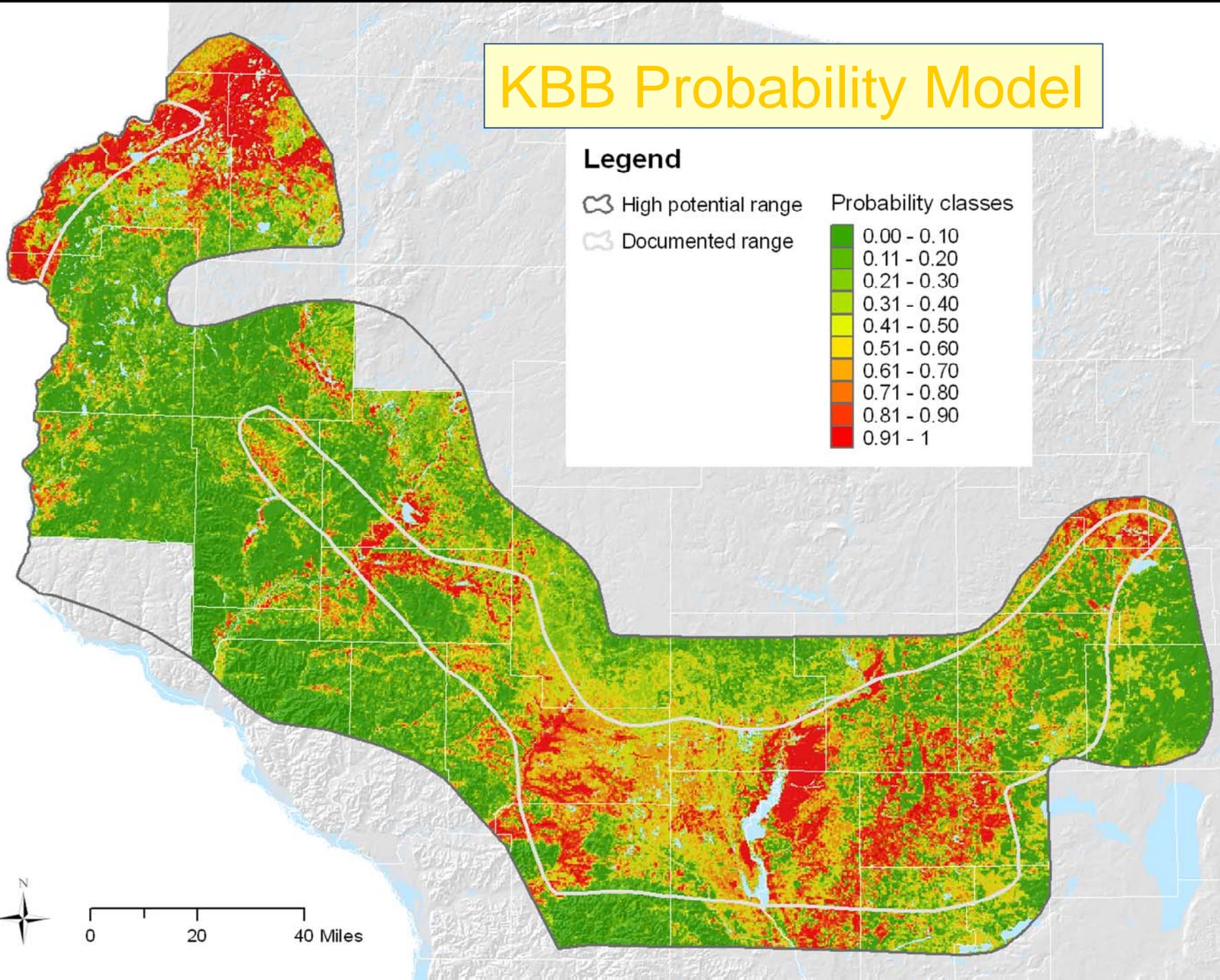
 High potential range

 Documented range

Probability classes



0 20 40 Miles



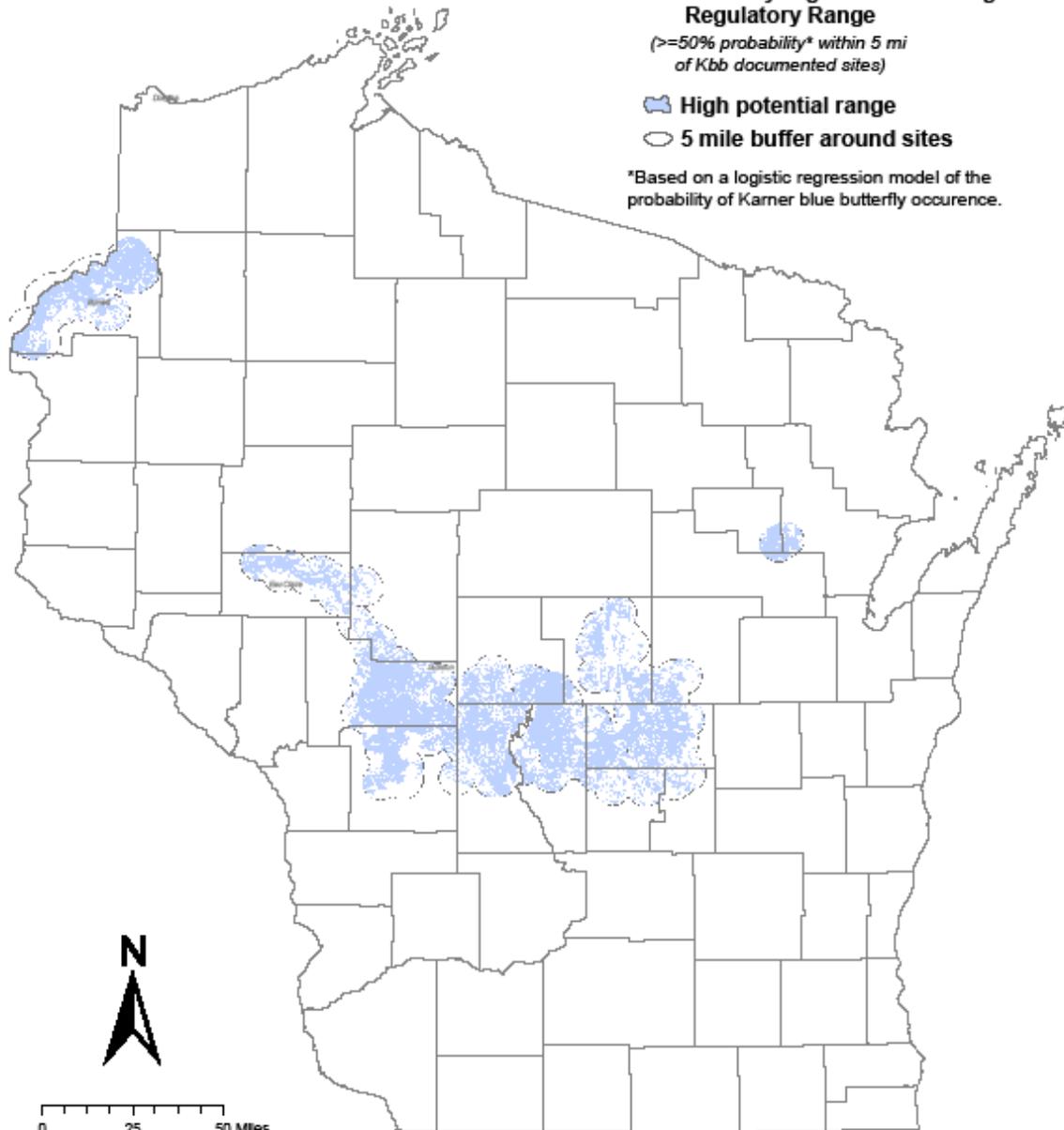
Karner Blue Butterfly High Potential Range Regulatory Range

($\geq 50\%$ probability* within 5 mi
of Kbb documented sites)

 High potential range

 5 mile buffer around sites

*Based on a logistic regression model of the
probability of Karner blue butterfly occurrence.



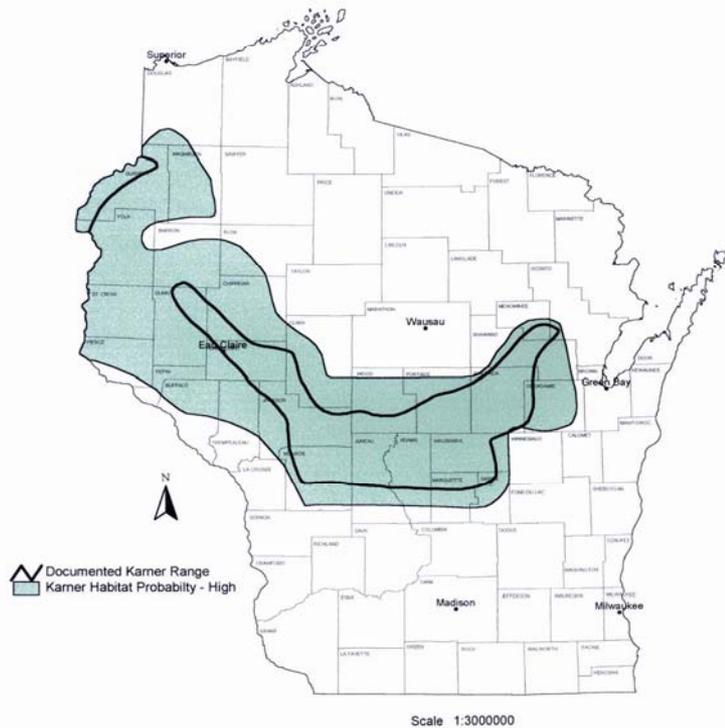
Map produced 15 April 2008
Forest Landscape Ecology Lab
University of Wisconsin-Madison

Kbb High Potential Range (regulatory range)

10.5 million acres

1.9 million acres

Karner Blue Butterfly High Potential Habitat and Documented Range In Wisconsin



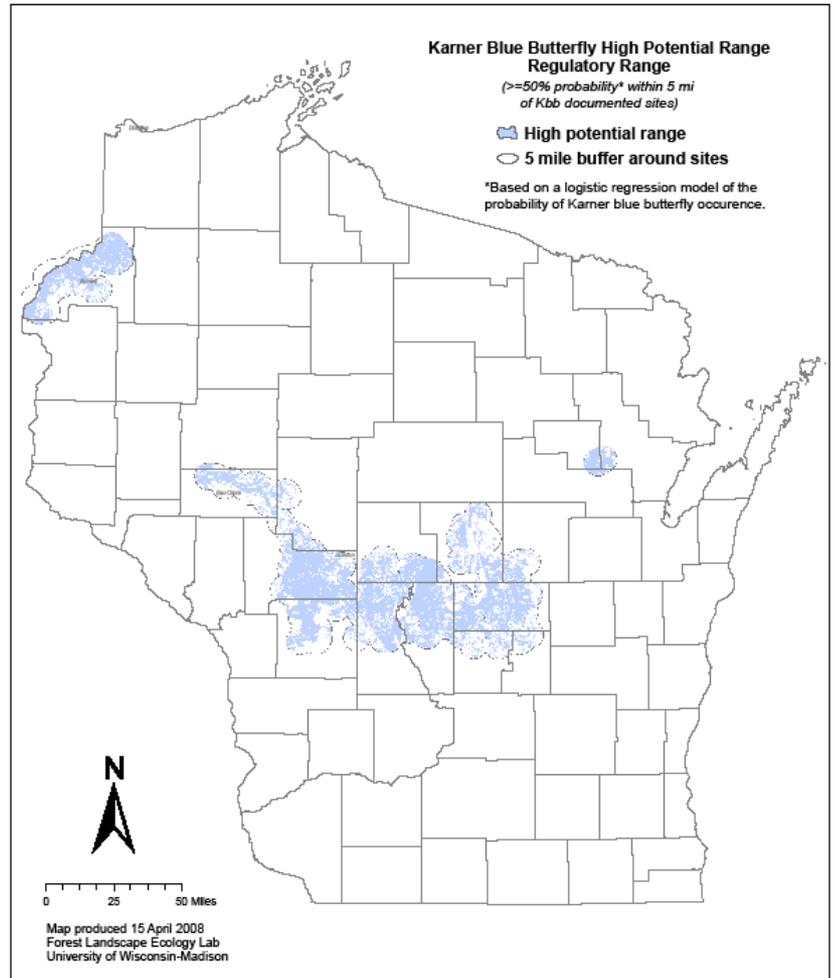
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Karner Blue Butterfly High Potential Range Regulatory Range

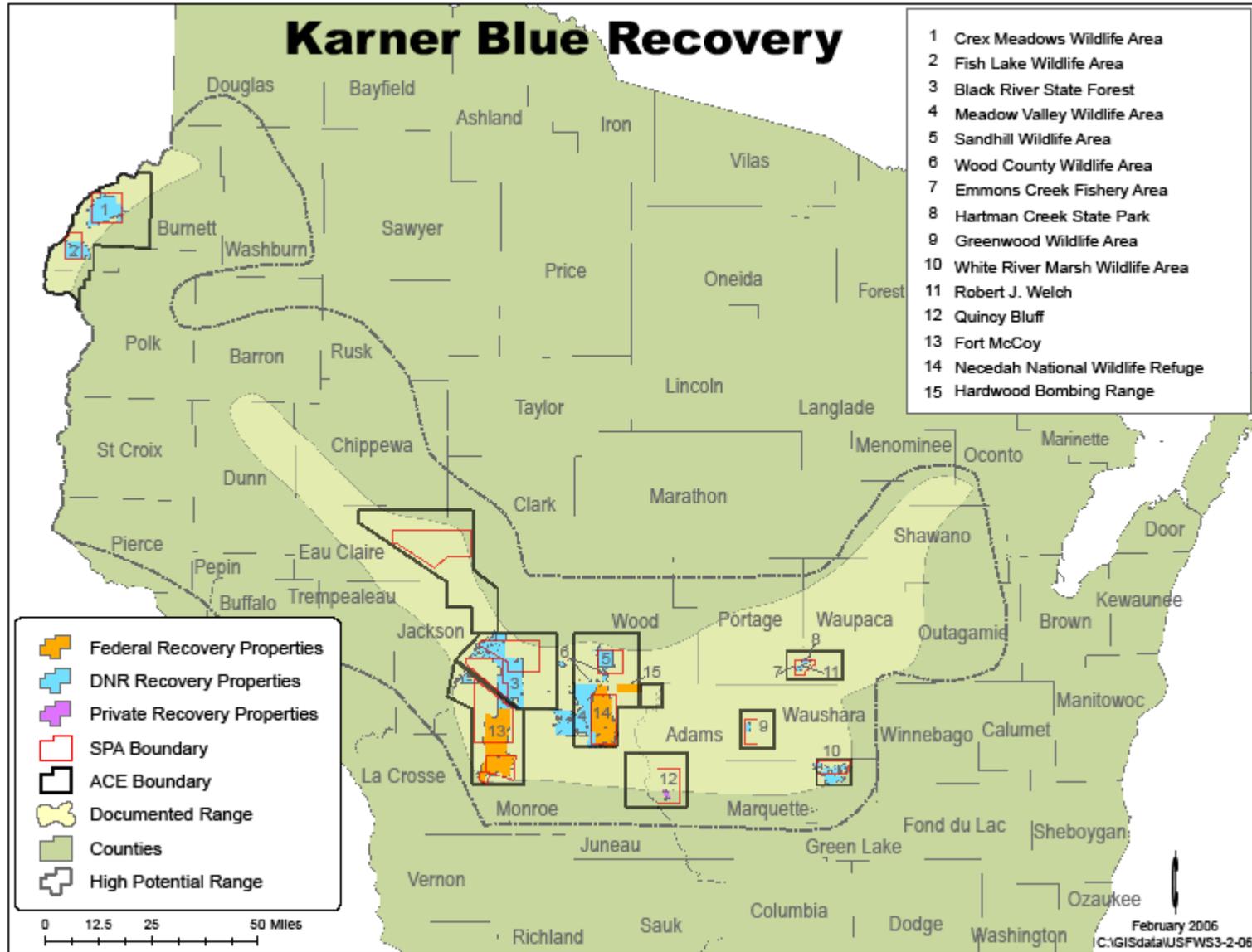
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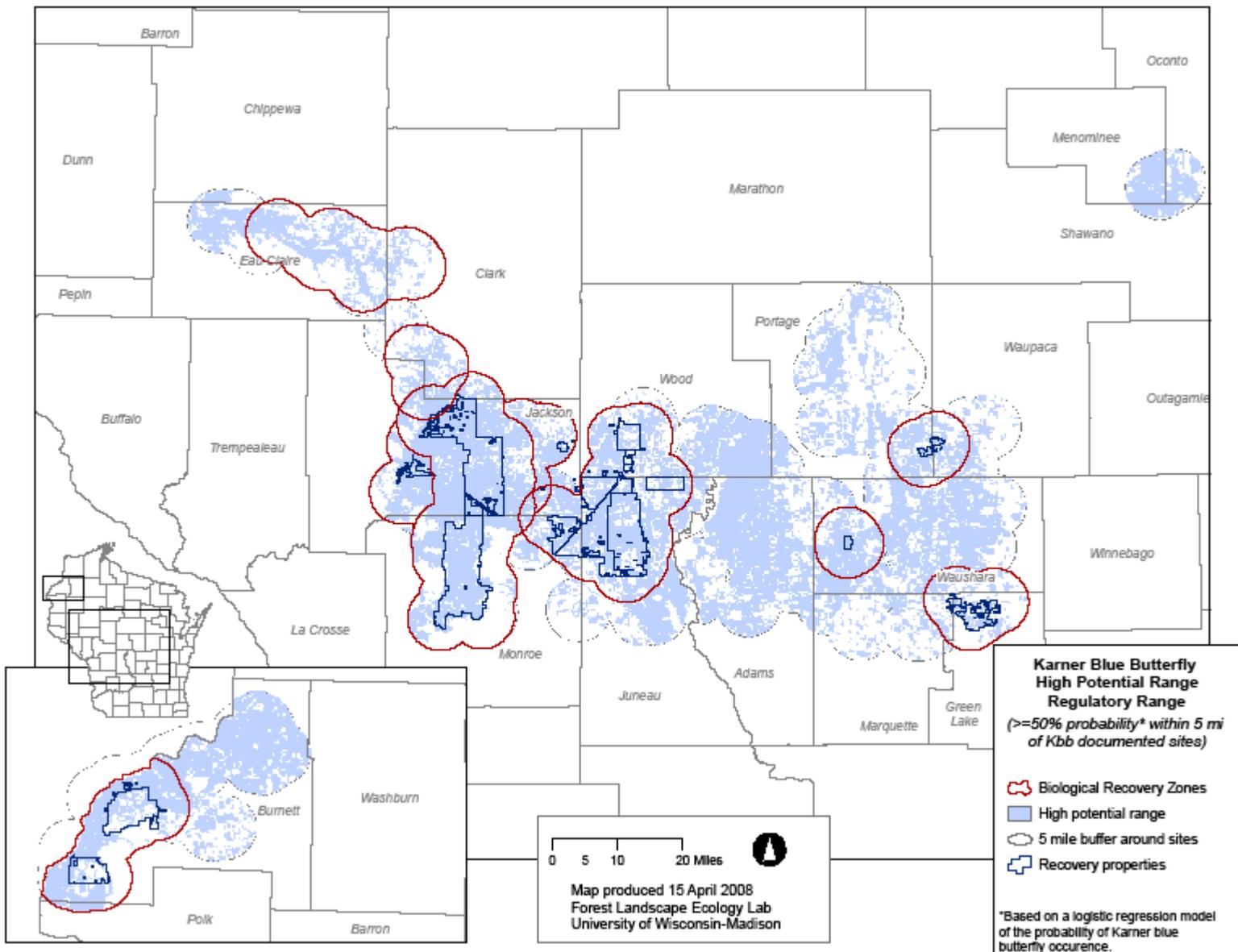
- High potential range
- 5 mile buffer around sites

*Based on a logistic regression model of the probability of Karner blue butterfly occurrence.



Karner Blue Recovery





2. Streamline Processes

- HCP processes were reduced proportionately to the new HPR
- Trends monitoring (old Effectiveness Monitoring) was discontinued
- Annual reporting of management reduced to activities in known Kbb occupied habitat
- plus many other improvements

3. Improve Guidelines & Protocols

- Appendix F. ranged from broad to specific; contradictions with body of HCP
- We started with a huge green Forestry book, Weaver Boos, Blue Wildlife Management Guideline (even included some monitoring)
- Difficult to amend w/out confusion

KBB HCP Partners User Guide



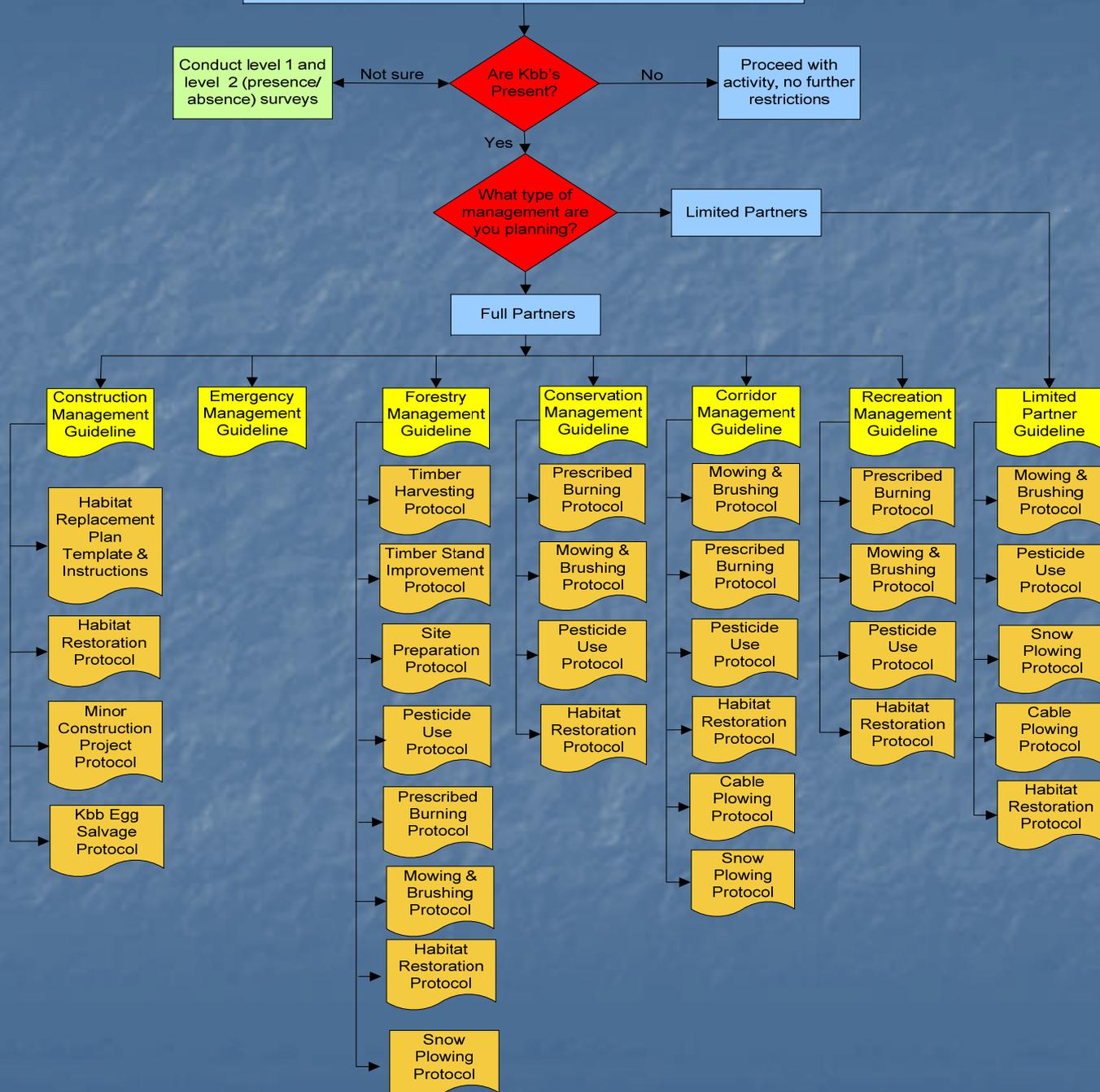
Guidelines – what do they look like and how do you use them?

- Guidelines listed by management categories
- Provide general framework that outlines what kind of activities fall under specific management categories
- Tell you where to find specific directions (protocols) about a management activity

Protocols - what do they look like and how do you use them?

- Protocols define conservation measures
 - when to apply a specific management activities, and
 - how to apply them

HCP User's Guide



In Summary By the Numbers

	1999	2010
Kbb sites	34 believed extant in 1993	Approx. 550
Partners	26	41
Town & County Hwy partners	0	13
People certified to survey	a bunch	900 more
IOC meetings	0	50
HCP Team winter meetings	Monthly 5 years (60)	10 annual
HCP Team summer field trips & picnics (last in 2006)	3 before 1999	6 more
Number of Gb on my hard drive	Gb not invented	34.8

**Journey -- not the destination
Do we still have goals to reach?**



Success by working together

