



Karner Blue Butterfly Recovery Report - 2009

Bob Hess

Kbb Recovery Coordinator

2009 Survey Strategy

- Population estimates on best sites
- Relative abundance on medium sites
- Presence/absence on weak sites
- Crex/Fish Lake Modifications



Distance Sampling Reduction

- **2008**
 - **33 sites**
 - **79,920 meters of transect**
- **2009**
 - **22 sites (including 13 new sites on Crex/Fish Lake)**
 - **60,170 meters of transect**

Habitat Assessments

- **Lupine**
- **Nectar Plants**
- **Threats**
- **Management Suggestions**

06/10/2009

Data Analysis

- **Populations generally stable**
 - 20,000 in 2008
 - 17,000 in 2009
- **Distribution remains uneven across the state**
 - 60% of total at Sandhill W.A.
 - 33% on Morainal Sands R.U.
 - 7% on BRSF and Crex/Fish Lake
- **Anomalies**

Management and Survey Implications

- Focus on barrens habitat restoration
- Site size > 15 acres
- Improve lupine and nectar plant composition



Plans for 2010

- **Survey intensity**
 - 56 total sites in the system
 - 14 sites to be sampled for population estimates
 - 37,360 meters of transect
- **Continue less intensive surveys on weaker sites**
- **Contract population estimate surveys**
- **Recruit volunteers for other surveys and assessments**

Potential New Sites

- **Private landowner near Coloma**
- **Kohler-Peet Barrens (Gov. Knowles State Forest)**

Grant Opportunities

- Great Lakes Restoration Initiative
- Showing Success/Preventing Extinction
- Great Lakes Wildlife Restoration Act
- Section 6 Grants
- Challenge Grants
- NRF Gift Grants
- State Wildlife Grants
- Other funding support

Research Collaboration Opportunities

- **Universities**
 - **UW Forest Landscape Ecology Laboratory**
 - **Michigan Technological University**
- **Wisconsin Initiative on Climate Change Impacts**

HCP Partner Involvement

- Seed collection
- Friends and volunteer groups



Karner Blue Butterfly Recovery Report - 2009

Bob Hess

Kbb Recovery Coordinator