

The Hummer/Bird Banding Research Collaborative, "HBRC" is comprised of licensed bird banders, field ornithologists and volunteers who band birds to increase understanding and awareness of avian ecology and migration.



*Rufous Hummingbird: T. K. Tolford*

All HBRC activities are open to anyone!

Students and families are encouraged to come and learn about birds, nature and conservation of our avian friends!

You will have the unique opportunity to have an "up close and personal" experience with a variety of familiar songbirds and hummingbirds. Some are those you may have only noticed by their song. Now, you can see and identify them—up close! At the same time, you will learn about avian ecology and ways to help and protect our feathered friends and the habitats needed for their survival.

Nearly every bird bander is a volunteer. The success of each and every research station is dependant upon volunteers like you!

Volunteer today and make a difference!

Visit our website for a list of HBRC banders, projects and contact information.

[www.hbrcnet.org](http://www.hbrcnet.org)

## ACTIVITIES

Various "open to the public" banding events throughout the year; informal exchange and discussions of information, ideas, tips, techniques and banding ethics in accordance with the North American Banding Council (NABC); cooperative research projects such as M.A.P.S. (Monitoring Avian Productivity and Survivorship), migration, bluebirds, martins, swallows, raptors, owls & hummingbirds.

## BENEFITS

An up-to-date website with all the activities of HBRC banders and research; periodic updates on conservation issues; access to procedures for obtaining Federal and State bird banding permits; access to training and testing opportunities for the North American Banding Council Bird Bander Certification Program; opportunities to learn methods and techniques for locating or attracting birds for banding or observation, to name a few.

## HBRC RESEARCH PROJECTS

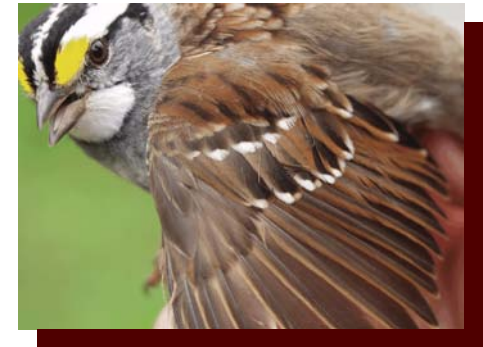
Passerine Migration Study - This project occurs in the spring and fall. It is a long term study to monitor the population status and movement of neotropical migrants passing through each study area. We hope to better understand how these migratory birds are using the study areas for food during migration.

Constant effort mist netting and point counts are conducted at each site to document the spatial and temporal use of the habitats by different birds. Data has been used to encourage and determine appropriate land management.

We can also determine from the long-term data the timing of each species which is a helpful tool for the public in improving their opportunities to view certain preferred species.

M.A.P.S. (Monitoring Avian Productivity and Survivorship) This study is a national program that HBRC banders have participated in since 1993 when M.A.P.S. was still in its infancy. It was developed by the Institute of Bird Populations (IBP) in Point Reyes, California. Other sites have been added by HBRC banders.

The project's objective is to document regional tendencies in productivity and survivorship. An important part of understanding population trends is determining reproduction success for target species. Utilizing the methodology developed by IBP, we can compare data from site to site and year to year. Study sites are manned by trained volunteers.



*White-throated Sparrow: T. K. Tolford*

Bluebird Nestling Study - This study is another long-term study in which we are attempting to monitor the longevity, productivity and survivorship. We will look at how weather affects the population. We can also determine how well the species compensates for drops in its population. Banding nestlings is the primary focus of this study. Banding, along with regular monitoring by volunteers of over 300 bluebird boxes, provides us the tools needed to maintain this project.

### Hummingbird Studies -

I - Ruby-throated Hummingbird Study - This study is a survey which will provide data to aid in determining migration routes, longevity, migration timelines, and use of habitat.

11 – Winter hummingbird Study – A total of 14 species of western hummingbirds have now been accounted for in the eastern U.S. thanks, in part, to hummingbird banders confirming these confusing winter visitors. More western species than we previously realized may be waiting to be discovered in winter. We did not know until recent years that we should have been looking! This study will educate birders on winter feeding and monitoring of western hummers in the midwest and eastern U.S. We will monitor and attempt to determine more accurate migration patterns and timelines for western hummers that winter-over in areas that were previously not documented as winter “stopover” grounds.



Songbird banding demonstrations may be scheduled for your group or special event. Contact any HBRC bander for availability and information.

Take advantage of the HBRC Hummerwatch Listserv group. Log on from the [www.hbrcnet.org](http://www.hbrcnet.org) website to record your sightings of hummingbirds throughout the year and help track their migration!

Hummingbird banding demonstrations may also be scheduled. Please e-mail your request to [hummers@hbrcnet.org](mailto:hummers@hbrcnet.org).

For winter hummingbird sightings contact Tim Tolford at [hummers@hbrcnet.org](mailto:hummers@hbrcnet.org).

***Thank you for your  
time and support!***

HBRC evolved out of 14 years of banding research and then organized in 2007.

HBRC is dedicated and devoted to understanding the complex behavior of birds, and educating the public about research and conservation of birds that reside in or migrate through the study areas. There are only a handful of bird banders in the U.S. and even fewer hummingbird banders. All banders operate under the auspices of the Department of the Interior, the United States Geological Survey, and the Bird Banding Laboratory.

HBRC relies entirely on donations and contributions to maintain its research, equipment and educational programs. Become a supporter of HBRC, a 501(c)3 organization. You will help to assure the future success of bird conservation through the banding projects, field research, training, and education programs of HBRC.

Donor Levels

Hummingbird	\$25	Warbler	\$50
Kestrel	\$100	Hawk	\$250
Eagle	\$500	Albatross	\$1000

Donations in any denomination are welcomed! Those above the \$250 level will receive a limited edition, 4X6 bird print. Albatross level will receive an 8X10 print. Visit [www.tolford.com/photography](http://www.tolford.com/photography) for details.

Send your tax-exempt requests with your clearly printed name, address, city, state, zip, ph# & e-mail address to:

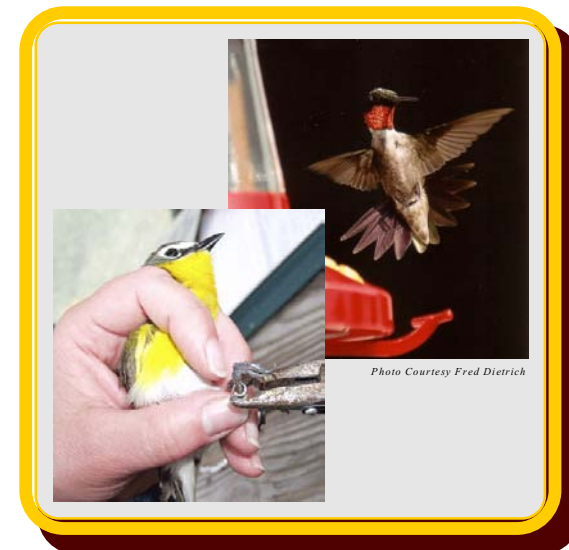
HBRC  
P.O. Box 157,  
Liberty, IN 47353-0157

Make checks payable to “AMV”

AMV (Audubon Miami Valley) is a non-profit, 501(c)3 group and sponsoring organization for HBRC. Visit the “Support HBRC” section of [www.hbrcnet.org](http://www.hbrcnet.org) for more details.



“Since 1993, HBRC banders have been dedicated to the study and preservation of all Federally protected songbirds and hummingbirds.”



[www.hbrcnet.org](http://www.hbrcnet.org)