

## **Great Lakes HummerNet 2007 Hummingbird Banding Summary**

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Permit #23156**

The 2007 banding season in Michigan was the best since the project began in 2001. With Brenda Keith now on board and working hard as a subpermittee, a total of 1039 Ruby-throated Hummingbirds was banded in Michigan between 5 May and 15 October 2007 at 27 locations in 12 counties.

Allen banded 744, most in the southeastern Lower Peninsula but with help from Brenda at a couple southwestern Lower Peninsula locales, and Brenda banded 295 in Kalamazoo County. The tables below provide a standardized comparison of capture rates and numbers for 2005, 2006, and 2007, showing in general a 25% increase banded hummingbirds over 2006. A total of 171 adult males, 431 adult females, 274 immature males, 159 immature females, 1 unknown age female, and 3 unknown sex nestlings was banded. The overall age ratio was 58% adult to 42% immature. The overall sex ratio was 43% males to 57% females, but among adults it was 28% male to 72% female and among immatures was 63% male to 37% female.

The number of birds returning in 2007 was similar to 2006, with 60 birds returning. But given the increase in birds banded this was lower than expected. Especially so given that more than half of the returnees this year (33) were from only one locale, Mary Bird's garden in Calhoun County, which was also the locale with the greatest number banded (172). Most of the returnees (32) were of birds banded last year. Among the 28 remaining returnees, 20 were from 2005, 7 were from 2004, and 1 (in my own yard) was from 2003.

Two most unusual returnees were birds returning to different locations from where they were banded. While this is fairly frequent in two areas – Milford, Oakland Co., where Koshkarian and Jensen regularly share birds, and Waterloo, Jackson Co., where Claflin and Taylor/Laux regularly share birds – these two were recaptured much farther afield. Both birds were banded at the Blackwell residence in Waterloo, Jackson County. One was an adult female originally banded as an adult female on 13 July 2005, and was recaptured at Darwin's also in Waterloo, 1.1. miles east, on 17 July 2007 with an egg visible. The second was an adult female originally banded as an adult female on 14 August 2006 and was recaptured at Bird's in Battle Creek, Calhoun Co., 58 miles WSW, on 23 July 2007 with a visible brood patch.

**Table 1.** Top sites for Ruby-throated Hummingbird banding in 2007  
 AHY=after hatch-year, HY=hatch-year, M=male, F=female

County	Host	Total	AHY-M	AHY-F	HY-M	HY-F	Returns
Kalamazoo (KAL10)	Keith	265	24	64	108	69	2006 (4)
Calhoun (CAL3)	Bird	172	43	85	26	18	2004 (4) 2005 (15) 2006 (14)
Macomb (MBMP)	MetroBeach	105	8	12	47	37	-
Livingston (LIV11)	Pappas	82	9	41	25	6	2006 (3)
Jackson (JAC2)	Clafin	66	18	34	14	0	2005 (1) 2006 (4)
Jackson (JAC10)	Steere	51*	7	35	6	2	2005 (1) 2006 (2)
Washtenaw (WAS21)	Colman	45	7	29	6	4	-
Jackson (JAC12)	Darwin	43	7	25	7	4	2004 (3) 2006 (1)
Wayne (WAY1)	Chartier	33	7	6	8	7	2003 (1) 2006 (1)
Jackson (JAC2a)	Taylor/Laux	28	6	17	3	2	2005 (2) 2006 (2)
Jackson (JAC11)	Blackwell	25	4	14	5	2	-

\*Including 1 unknown age female.

**Table 2.** Comparison of hummingbird trapping, 2005-2007 in southeastern Michigan. Standardized totals of birds banded from 1 June – 30 September.

**A. Summer trapping (June/July)**

	<b>2005</b>	<b>2006</b>	<b>2007</b>
June/July Total banded	218	240	266
June/July Trap Hrs.	45.00	36.75	38.75
June/July #/Trap Hr.	4.84	6.53	6.86
Age Ratio (AHY/HY)	214/4	237/3	262/4
% HY	1.8%	1.2%	1.5%

**B. Fall trapping (August/September)**

	<b>2005</b>	<b>2006</b>	<b>2007</b>
Aug/Sep Total banded	188	249	358
Aug/Sep Trap Hrs.	53.50	54.00	64.5
Aug/Sep #/Trap Hr.	3.51	4.61	5.55
Age Ratio (AHY/HY)	102/86	157/92	190/168
% HY	45.7%	36.9%	46.9%

**C. Fall mist netting (August/September)**

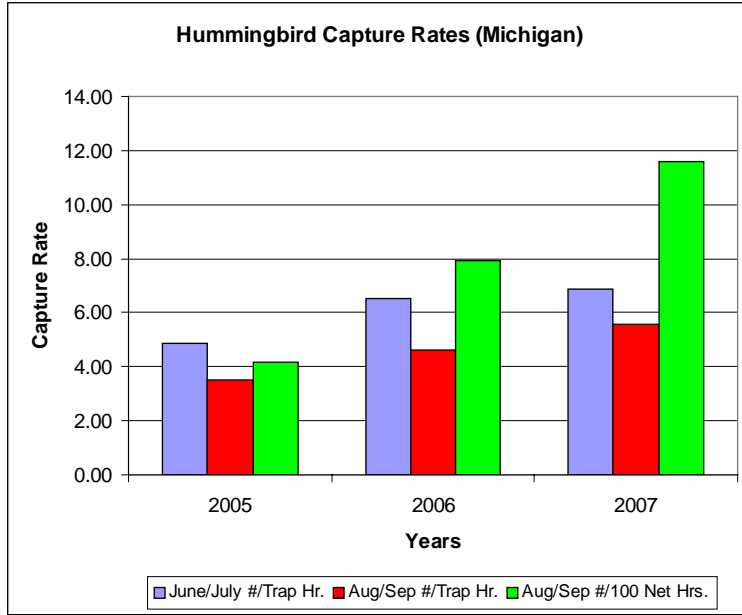
	<b>2005</b>	<b>2006</b>	<b>2007</b>
Aug/Sep Total (nets)	28	86	96
Aug/Sep Net Hrs.	669.19	1082.56	828.69
Aug/Sep #/100 Net Hrs.	4.18	7.94	11.58
Age Ratio (AHY/HY)	3/25	6/80	10/86
% HY	89.3%	93.0%	89.6%

**D. Overall comparison**

	<b>2005</b>	<b>2006</b>	<b>2007</b>
Total banded all year	434	575	720
Age Ratio (AHY/HY)	319/115	400/175	462/258
% HY	26.5%	30.4%	35.8%
June/July #/Trap Hr.	4.84	6.53	6.86
Aug/Sep #/Trap Hr.	3.51	4.61	5.55
Aug/Sep #/100 Net Hrs.	4.18	7.94	11.58

**Figure 1.** Comparison of hummingbird captures, 2005, 2006, and 2007, southeastern Michigan.

**A.** Birds per net hour and birds per trap hour for each year, 2005-2007.



**B.** Total birds banded, 2005-2007, southeastern Michigan.

