# Cheshire Barn Owl report 2008 Introduction

This report collates Data from the Wirral and the Mid, South, West, North and North East Cheshire Barn Owl groups. There is no data this year from East Cheshire nor from the Manchester Recorder.

## Summary

There were 59 successful pairs of breeding Barn owls in Cheshire in 2008 with 135 confirmed young. There was one confirmed breeding pair where the young were not counted giving an estimated total young of 137. No second broods were reported this year.

Total number of confirmed breeding pairs	78
Total successful breeding pairs	59
Total counted young	135
Average young per pair	2.3
Estimated total young	137
Boxes installed	1061

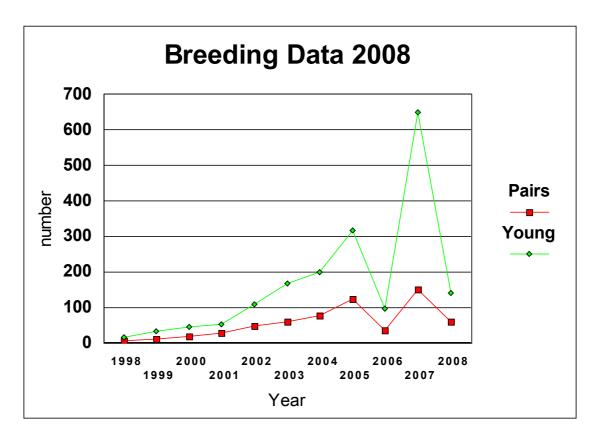
Note: At only one confirmed breeding site was the number of young not counted. Sites where eggs were found but young not confirmed are **not** included within the Successful breeding sites total.

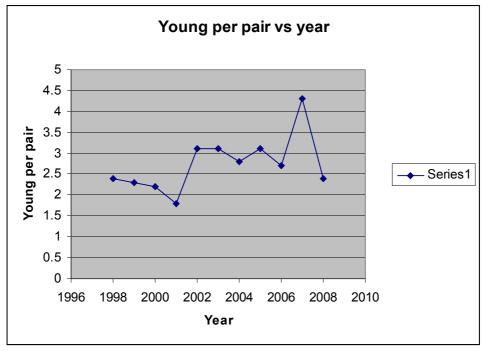
Group	Breeding sites	Successful Sites	Counted sites++	Counted young	Ringed young	Second broods	Young per pair
Mid	13	11	10	20	20	0	2.0
North	1	1	1	2	2	0	2.0
N/E	2	0	0	0	0	0	
South	8	6	6	15	15	0	2.5
Wirral	25	12	12	38	33	0	3.2
West	29	29	29	60	60	0	2.1
Total	78	59	58	135	130	0	2.3

<sup>++</sup>Counted sites are sites where young were counted.

Wirral have a good estimate of the presence of a pair prior to breeding. Most other groups haven't so their number of initially occupied sites is far higher than shown for the other groups.

Year	Breeding Pairs	Young	Young per pair
1998	7	17	2.4
1999	10	32	2.3
2000	19	46	2.2
2001	29	53	1.8
2002	48	110	3.1
2003	61	167	3.1
2004	76	199	2.8
2005	123	316	3.1
2006	36	96	2.7
2007	151	651	4.3
2008	59	141	2.3





#### Location of nest sites

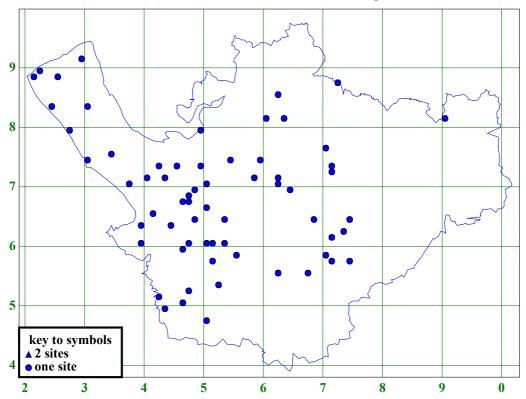
	Tree box	Barn box	Pole box	Building	Natural Tree site	Total
Mid	12	0		1	0	13
North				1		1
N/E	1				1	2
South	4		4			8
Wirral	7	4	12		2	25
West		1	25		3	29
Total	24	5	42	1	7	78

Note: this table refers to all nest sites not just the successful sites

#### **Box Utilisation**

	Total boxes	Boxes used	% Utilisation
Mid+east+N/E+south+nort h	575	23	4.2
West	326	26	9.1
Wirral	160	23	23.5
Totals	1061	78	7.35

#### Barn Owl Location of successful breeding sites in 2008



#### **Discussion**

This has not been a good year for Barn Owl breeding success. The number of pairs is higher than in the last bad year which was 2006. (59 pairs in 2008 vs 36 in 2006). However, the young per pair was only 2.3 vs. 2.7 in 2006. This is well below the required replacement rate.

The poor productivity and reduction in breeding pairs compared with 2007 and 2005 is difficult to understand. Poor breeding performance is normally ascribed to a low point in the vole cycle. If the peak was in 2007, then, if the cycle is 4 years, we should not have reached the low point in 2008. We need a lot more data to even try to understand what has happened; perhaps it was a combination of some reduction in voles plus a cold wet spring and summer.

Following a suggestion from A McCleary I have plotted the temperature at Shawbury(the nearest site for which there is data) on the same graph as the productivity data-see below. It is clear that the excellent performance in 2007 followed the warmest April for many years. Also, the poor performances in 2001 and 2006 followed cold April weather. So perhaps we should be looking at April temperature combined with the vole cycle to interpret breeding success. The plot of young per pair vs temperature shows a correlation which is remarkably good. It appears that a good year should follow average temperatures above 14deg c. and a poor one below 12deg c.

Evidence suggests that there was a considerable number of non-breeding adults in the county and given better conditions in 2009 we can expect a much-improved breeding performance.

### Acknowledgements

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