

USFWS Kirtland's warbler tour results 2001

- ✓ 662 participants from 36 states and 5 foreign countries.
- ✓ 17723 participants since 1976, average 682/year.
- ✓ 83 out of 84 tours sighted a Kirtland's warbler!
- ✓ 52 other avian species seen during the tours.

Brown-headed cowbird control results 2001

- ✓ 68 traps operated, including 7 new traps in Crawford, Iosco, Kalkaska, Montmorency, and Roscommon Co.
- ✓ In the 30 years of trapping, over 121,000 cowbirds have been removed.
- ✓ Approximately 3900 cowbirds removed.
- ✓ 2 American Kestrels and 4 Sharp-shinned hawks banded and released.
- ✓ Very high levels of predation.
- ✓ High escape rates resulting from bear attacks and possible escape through drop panel.

Participation in the U.S. Fish and Wildlife Service Kirtland's warbler tours,
1974-2001

Year	Participants	States	Foreign Countries	Percent Change in Participants From Previous Year
1974	250	?	?	NA
1975	1386 ¹	34	4	??
1976	647	31	2	??
1977	711	30	4	9.9
1978	528	28	2	-25.7
1979	450	26	4	-14.8
1980	491	27	3	9.1
1981	609	25	3	24
1982	623	32	3	2.3
1983	613	34	2	-1.6
1984	780	29	2	27.2
1985	715	37	2	-8.3
1986	627	34	2	-12.3
1987	670	35	2	6.9
1988	828	33	3	23.6
1989	852	32	3	2.9
1990	818	32	6	-4
1991	610	40	2	-25.4
1992	725	35	5	18.9
1993	775	38	6	6.9
1994	595	39	5	-23.2
1995	724	39	7	21.7
1996	606	38	3	-16.3
1997	733	40	6	21
1998	773	41	9	5.5
1999	917	42	5	18.6
2000	641	40	4	-30.1
2001	662	36	5	3.3
Total ²	17723			
Mean ²	682			

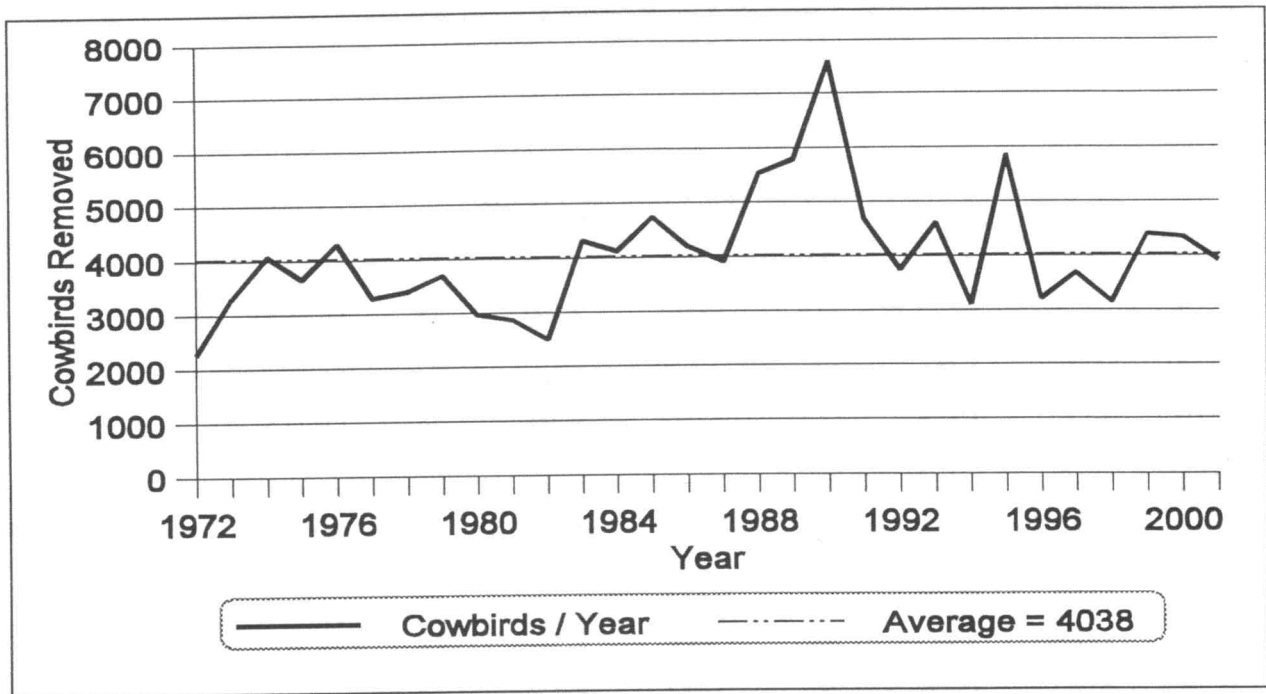
1. 1975 Attendance figure combines USFWS tours and U.S. Forest Service, Mio, MI tours.

2. Total and mean values are derived from the 1976-2001 data only, due to the uncertainty of the 1974 and 1975 data.

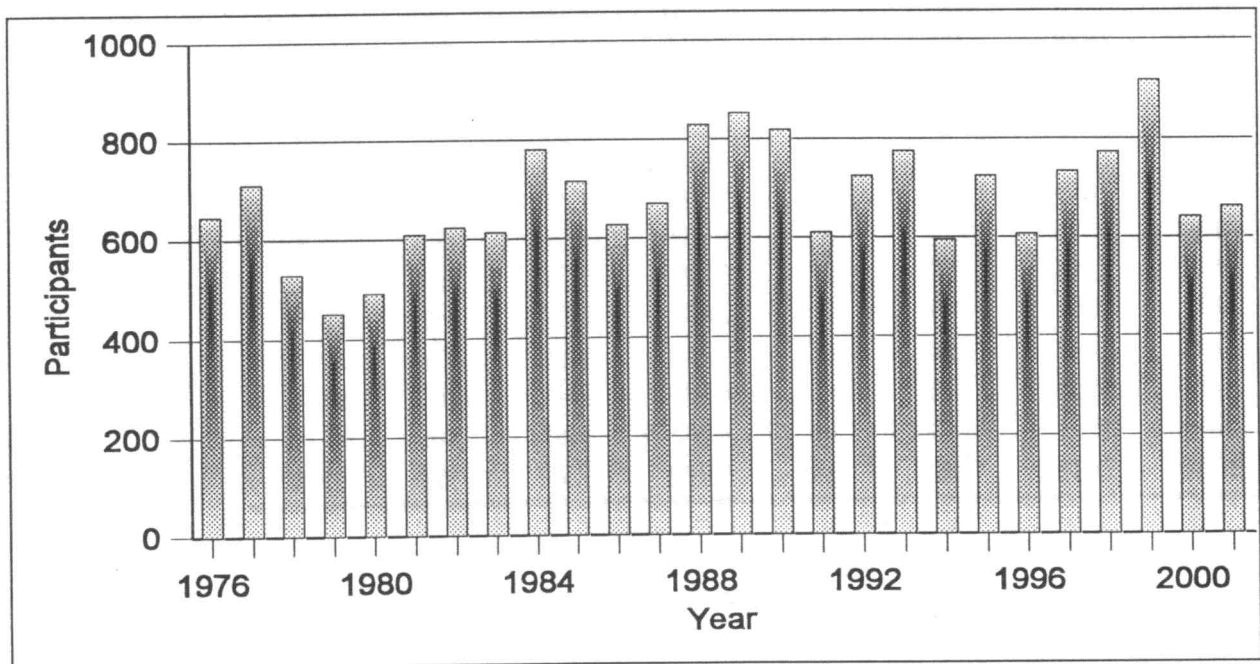
Yearly summary of cowbirds trapped in Kirtland's warbler nesting areas, northern lower Michigan, 1972-2001.

Year	Brown-headed Cowbirds					Traps	Cowbirds Per Trap
	Male	Female	Juvenile	Total	M/F Ratio		
1972	1621	619	21	2261	2.62	15	150.73
1973	1995	1195	115	3305	1.67	18	183.61
1974	2195	1717	163	4075	1.28	22	185.23
1975	2026	1461	161	3648	1.39	30	131.60
1976	2193	1994	112	4299	1.10	38	113.13
1977	1845	1405	34	3284	1.31	39	84.21
1978	1754	1639	18	3411	1.07	40	85.28
1979	1954	1721	16	3691	1.14	35	105.46
1980	1538	1429	0	2967	1.08	37	80.19
1981	1770	1085	1	2856	1.63	36	79.33
1982	1568	893	38	2499	1.76	35	71.40
1983	2128	2196	0	4324	0.97	35	123.54
1984	2183	1936	0	4119	1.13	31	132.87
1985	2644	2082	14	4740	1.27	30	158.00
1986	2328	1781	75	4184	1.31	31	134.97
1987	2291	1549	60	3900	1.48	38	102.63
1988	2932	2589	19	5540	1.13	41	135.12
1989	2907	2881	2	5790	1.01	42	137.86
1990	3818	3771	6	7595	1.01	38	199.87
1991	2576	2088	6	4670	1.23	43	108.60
1992	2003	1730	4	3737	1.16	49	76.27
1993	2361	2246	7	4614	1.05	51	90.47
1994	1862	1242	5	3109	1.50	56	55.52
1995	3070	2782	3	5855	1.10	67	87.39
1996	1844	1357	0	3201	1.36	59	54.25
1997	1962	1717	2	3681	1.14	64	57.52
1998	1937	1154	52	3143	1.68	67	46.91
1999	2608	1745	46	4399	1.49	67	65.66
2000	2801	1510	34	4345	1.85	68	63.90
2001	2613	1262	28	3903	2.07	68	57.40
Total	67327	52778	1042	121145		1287	
Mean	2244	1759	35	4038	1.37	43	93.91

2001 results are preliminary



Total and mean numbers of Brown-headed cowbirds removed from Kirtland's warbler nesting areas in northern lower Michigan, 1972-2001



Participation in the United States Fish and Wildlife Service Kirtland's warbler tours; 1976-2001