
CENTRAL FLYWAY

HARVEST AND POPULATION SURVEY DATA BOOK

2006



compiled by:

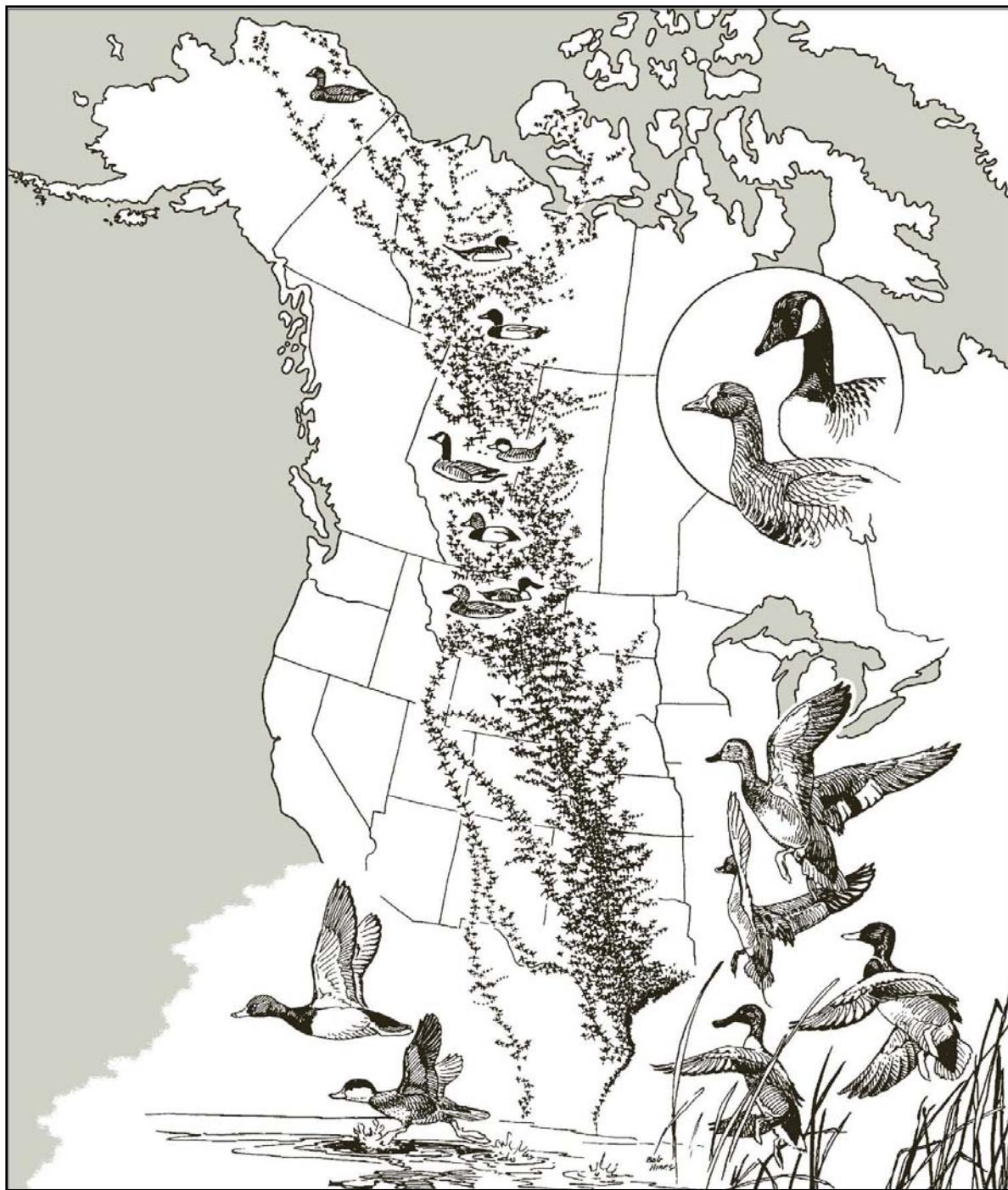
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CENTRAL FLYWAY

1948-2006

58 YEARS OF MIGRATORY BIRD CONSERVATION



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Important Note to Users:

From 1961-2001, estimates of waterfowl harvest, waterfowl hunter participation, and waterfowl hunter success in the United States were derived from a combination of several sources: 1) sales of migratory bird conservation stamps (Duck Stamps), 2) a Mail Questionnaire Survey of individuals who purchased ducks stamps for hunting purposes, and 3) the Waterfowl Parts Collection Survey (PCS). This survey, which was based on duck stamp sales was discontinued after the 2001 hunting season.

Beginning in 1999, new survey methods were implemented that obtained estimates of waterfowl harvest, hunter participation, and hunter success from: 1) States' lists of migratory bird hunters identified through the Harvest Information Program (HIP), 2) a questionnaire (HIP Survey) sent to a sample of those hunters, and 3) the Waterfowl PCS. The basic difference is that during 1961 - 2001 waterfowl hunter activity and harvest estimates were derived from a Mail Questionnaire Survey (MQS) of duck stamp purchasers, whereas from 1999 to the present those estimates were derived from HIP surveys of people identified as migratory bird hunters by the States. Both survey systems relied on the Waterfowl PCS for species composition data.

During 1989-2002, migratory game bird harvest and population survey information in the Central Flyway was presented in annually updated Data Books. Because of the recently implemented changes in survey design, historical harvest estimates will not be directly comparable to current estimates. Therefore, previous harvest survey information derived from the MQS are considered as final and compiled in the Central Flyway Waterfowl Hunting and Harvest Survey Information, 1961-2001.

For 1999 and subsequent years, waterfowl hunting and harvest estimates that are derived from HIP, along with the usual population survey information, will be compiled in annual updates of the Central Flyway Harvest and Population Survey Data Book. In the future, the annual Data Book will be expanded to also present annual hunter activity and harvest estimates for other migratory game bird species that are now derived from HIP surveys.

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**UNITED STATES
DUCK STAMP SALES**

**CANADIAN MIGRATORY
BIRD PERMIT SALES**

**MID-CONTINENT
SANDHILL CRANE
HUNTING PERMITS**

**TUNDRA SWAN
HUNTING PERMITS**

DUCK STAMP SALES IN THE UNITED STATES: 2000-2005

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC FLYWAY	U.S.
2000	35,605	29,195	7,265	4,214	37,072	34,926	21,362	32,445	144,369	9,644	356,095	306,740	757,094	252,738	1,662,666
2001	30,752	25,590	5,925	33,829	4,646	34,516	22,419	33,466	149,898	149,075	322,785	305,837	719,094	247,093	1,650,609
2002	26,897	26,345	5,604	32,000	4,259	30,359	21,770	30,851	138,075	6,625	322,785	305,837	719,094	235,268	1,583,847
2003	27,028	27,019	5,581	31,787	4,276	31,709	21,702	31,438	129,717	7,349	317,606	311,399	704,978	235,350	1,569,333
2004 ¹	31,628	23,332	5,359	34,373	3,738	27,436	18,800	28,178	133,423	7,529	313,796	317,944	653,880	234,577	1,520,197
2005 ^{1,2}	37,811	22,012	(18,945)	32,353	3,781	25,727	19,063	24,314	115,401	8,130	288,592	313,332	610,259	233,841	1,446,024
AVERAGES:															
1934-39	13,490	18,117	16,699	23,301	2,733	9,404	17,179	15,317	45,263	4,496	166,000	98,740	365,007	134,158	763,904
1940-49	28,979	41,715	29,537	41,027	6,496	35,917	36,148	47,664	106,735	8,760	382,977	233,818	686,117	318,251	1,621,163
1950-59	36,686	59,606	33,024	60,944	9,293	43,234	44,931	46,848	151,917	10,777	497,258	318,241	924,878	417,341	2,157,718
1960-69	24,834	38,357	10,169	32,722	4,433	24,895	35,857	89,678	4,392	301,321	310,630	665,259	359,000	1,636,260	
1970-79	39,847	57,972	8,225	46,285	6,468	54,915	31,622	41,258	134,256	7,648	428,496	449,986	892,081	415,986	2,186,556
1980-89	40,218	29,836	6,410	33,386	5,666	41,316	17,374	33,996	106,389	8,959	323,489	383,463	660,143	308,905	1,677,917
1990-99	28,573	20,031	5,989	32,300	4,513	31,538	15,547	32,154	99,583	8,683	283,110	300,139	648,178	228,661	1,340,112
2000-04	30,382	26,296	5,947	33,812	4,227	31,789	21,211	31,276	139,096	8,039	332,075	309,588	715,641	241,005	1,597,330

¹Preliminary

²Estimates for NM, CO, WY, and MT are statewide. MT is summarized in the Pacific Flyway's total and WY, CO, and NM are summarized in the Central Flyway's total.

D.E. SHARP FILE: SICF.DIFXELDATABOOKHIPERMITSHIP.XLS

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MIGRATORY GAME BIRD HUNTING PERMITS BY PROVINCE/TERRITORY OF PURCHASE IN CANADA

YR	NF	PE	NS	NB	PQ	ON	MB	SK	AB	BC	NT	YT	NU	TOTAL
1966	13,269	3,271	7,220	8,535	35,868	144,063	37,784	44,744	52,911	32,394	N/A	N/A	N/A	380,059
1967	14,863	3,094	7,883	7,739	32,491	146,493	35,620	44,651	55,892	33,195	N/A	N/A	N/A	381,921
1968	17,645	3,649	9,022	9,558	37,110	139,182	38,712	43,586	53,623	33,301	N/A	N/A	N/A	385,398
1969	19,089	3,794	8,848	10,110	39,477	134,037	41,611	45,347	53,602	32,764	N/A	N/A	N/A	388,679
1970	21,347	3,926	9,926	10,293	46,009	135,231	39,230	47,722	59,986	31,350	N/A	N/A	N/A	405,020
1971	23,460	4,513	11,381	11,146	50,276	133,563	40,960	49,488	62,902	30,225	N/A	N/A	N/A	417,874
1972	23,682	4,492	12,158	11,336	53,082	131,427	41,133	50,004	63,309	31,032	N/A	N/A	N/A	421,655
1973	27,919	4,972	15,071	12,869	57,247	141,277	41,711	51,307	67,012	33,456	N/A	N/A	N/A	452,841
1974	25,127	5,038	13,791	11,916	58,345	136,469	37,167	51,504	66,127	27,764	591	323	323	434,162
1975	30,115	4,963	13,990	12,930	63,768	148,670	42,846	57,723	69,191	25,918	721	485	471,320	471,320
1976	29,621	5,756	13,326	13,743	66,453	143,816	46,816	61,669	75,739	26,561	893	513	484,906	484,906
1977	36,188	6,158	15,744	14,209	72,828	156,895	46,438	60,029	82,175	28,357	902	607	520,530	520,530
1978	37,297	6,396	16,297	15,249	74,745	159,698	50,169	57,988	77,117	28,561	821	638	524,946	524,946
1979	35,490	5,888	14,098	13,409	73,209	150,224	49,344	56,174	77,021	28,263	755	584	504,459	504,459
1980	31,362	5,802	14,257	12,471	76,133	147,952	48,340	54,081	79,318	27,943	732	525	498,916	498,916
1981	31,406	5,611	14,130	12,287	75,178	141,677	46,528	42,856	66,163	28,243	764	514	465,357	465,357
1982	31,215	5,461	13,728	12,759	72,850	144,436	45,273	47,236	64,968	26,522	800	572	465,820	465,820
1983	30,977	5,898	13,468	12,758	67,700	139,569	40,443	45,383	61,742	21,790	750	474	443,332	443,332
1984	31,309	5,525	12,896	11,486	65,308	140,521	35,238	37,720	51,720	21,892	850	496	414,958	414,958
1985	25,652	5,171	10,749	10,354	60,823	130,089	31,753	36,445	44,880	18,753	713	361	375,743	375,743
1986	25,498	5,300	11,047	11,083	59,685	131,930	33,570	37,692	45,042	17,924	692	358	379,821	379,821
1987	21,080	4,959	10,299	9,897	55,124	122,472	30,207	29,930	40,122	29,930	523	391	341,263	341,263
1988	23,655	4,906	10,264	10,646	57,206	117,310	25,108	23,258	34,513	15,313	496	367	323,324	323,324
1989	24,707	4,838	10,092	9,971	54,605	114,292	23,898	22,916	34,559	14,694	420	308	315,300	315,300
1990	24,831	4,625	10,115	9,974	54,700	115,130	22,641	22,964	32,212	13,851	431	240	311,714	311,714
1991	20,738	4,209	10,104	9,997	53,739	108,802	22,122	22,414	29,399	13,601	352	300	295,777	295,777
1992	20,310	3,753	9,337	9,337	49,262	103,395	20,048	20,620	28,056	12,429	348	256	277,006	277,006
1993	20,664	3,425	8,866	8,614	46,281	87,288	14,959	15,388	24,056	11,560	304	242,181	242,181	242,181
1994	20,399	3,380	9,314	9,468	46,537	92,344	18,838	20,254	26,211	11,037	320	294	258,396	258,396
1995	20,231	3,479	9,176	8,674	38,955	83,720	19,630	20,554	25,747	9,855	342	318	240,681	240,681
1996	16,312	3,303	8,652	8,536	36,004	80,194	19,702	20,475	27,299	10,069	318	306	231,170	231,170
1997	14,289	3,051	7,731	7,546	31,435	72,521	18,918	20,109	26,847	10,185	278	256	213,178	213,178
1998	13,101	2,946	7,681	7,095	30,113	70,407	18,445	21,822	22,238	9,816	286	231	204,181	204,181
1999	13,111	2,671	7,410	6,821	30,124	67,077	17,433	21,685	21,415	9,314	292	231	197,584	197,584
2000	12,217	2,805	7,072	6,399	30,271	63,672	15,810	21,908	21,792	9,007	267	224	191,444	191,444
2001	16,998	2,416	6,645	5,975	29,138	58,458	15,038	18,387	19,527	8,185	223	251	181,261	181,261
2002	16,056	2,341	6,316	5,942	28,702	56,645	14,832	16,958	17,814	7,464	244	217	173,555	173,555
2003	15,626	2,316	5,926	6,065	29,376	56,911	15,124	18,155	18,372	6,509	243	159	174,794	174,794
2004	14,810	1,724	5,727	5,705	28,872	55,523	14,244	18,273	18,768	6,402	192	180	170,439	170,439
2005	13,569	1,512	5,485	5,556	28,095	53,151	13,834	18,558	19,322	6,181	192	204	23	165,682

AVERAGES:

1966-69	16,217	3,452	8,243	8,986	36,237	140,944	38,432	44,585	54,007	32,914	N/A	N/A	384,014
1970-79	29,025	5,210	13,578	12,710	61,596	143,727	43,581	54,354	70,058	29,149	781	525	463,771
1980-89	27,686	5,347	12,093	11,371	64,461	133,025	36,036	37,752	52,302	21,200	674	437	402,383
1990-05	17,066	2,997	7,838	7,607	36,975	76,577	17,601	19,908	23,736	9,717	290	247	220,565

D.E.: SHARP FILE - STC - DEXCEN DATA FOR GROUPS PERMIT TYPES

07/17/06

FEDERAL MID-CONTINENT POPULATION SANDHILL CRANE PERMITS ISSUED IN THE CENTRAL FLYWAY

YR	CO	KS	MT	NM	ND	OK	SD	TX	TOTAL
1975	401		158	1,225	4,172	171	198	5,482	56 11,863
1976	341		117	1,195	4,137	265	200	5,060	37 11,352
1977	374		82	1,452	6,294	519	134	4,897	48 13,800
1978	343		209	956	5,798	620	98	5,198	52 13,274
1979	528		159	1,288	4,949	470	63	5,098	43 12,598
1980	437		118	1,082	5,754	510	240	5,239	33 13,413
1981	397		53	1,022	5,796	466	197	5,297	30 13,258
1982	528		147	962	4,714	750	579	4,650	40 12,370
1983	575		175	706	8,033	909	528	7,317	63 18,306
1984	538		113	721	7,436	1,187	544	6,838	43 17,420
1985	555		143	710	6,802	1,102	656	7,417	59 17,444
1986	617		99	595	8,926	1,073	705	7,258	25 19,298
1987	610		128	502	8,778	1,213	517	6,289	30 18,067
1988	512		162	480	6,214	1,472	437	7,053	38 16,368
1989	434		172	430	6,128	1,717	524	8,066	25 17,496
1990	389		143	533	7,268	1,725	646	11,994	22 22,720
1991	501		238	602	3,353	1,618	668	11,142	25 18,147
1992	498		303	582	3,760	1,397	721	9,848	18 17,127
1993	411	575	336	541	4,572	1,277	708	10,407	37 18,864
1994	427	567	320	547	4,790	1,561	636	10,515	49 19,412
1995	571	711	351	564	5,242	1,323	650	10,755	42 20,209
1996	612	837	369	499	5,570	1,391	677	11,334	41 21,330
1997	572	997	325	454	4,934	1,393	757	37,365 ²	46 46,843
1998	4,937 ²	1,088	270	449	6,082	1,385	951	32,523 ²	49 47,734
1999	4,847 ²	1,235	279	516	6,050	1,438	810	33,380 ²	52 48,607
2000	5,169 ²	1,084	283	493	7,451	1,333	721	44,719 ²	58 61,311
2001	5,869 ²	1,374	253	509	8,078	1,315	680	49,410 ²	72 67,560
2002	5,644 ²	1,279	303	496	8,245 ²	1,186	619	37,558 ²	54 55,384
2003	5,854 ²	1,206	273	471	6,030 ²	1,000	563	43,199 ²	50 58,646
2004	5,784 ²	1,180	308	548	5,788 ²	780	307	52,161 ²	61 66,917
2005 ¹	5,766 ²	805	281	494	7,441 ²	698	490	51,511 ²	68 67,554
AVERAGES:									
1975-79	397		145	1,223	5,070	409	139	5,147	47 12,577
1980-89	520		131	721	6,858	1,040	493	6,542	39 16,344
1990-99	1,377	859	293	529	5,162	1,451	722	17,926	38 28,099
2000-04	5,664	1,225	284	503	7,118	1,123	578	45,409	59 61,964
1975-04	1,643	1,011	213	704	6,038	1,086	524	16,582	43 27,238
CURRENT YEAR PERCENT CHANGE FROM:									
2004	0%	-32%	-9%	-10%	29%	-11%	60%	-1%	11% 1%
1975-79			94%	-60%	47%	71%	254%		44%
1980-89			115%	-31%	8%	-33%	-1%		76%
1990-99		-6%	-4%	-7%	44%	-52%	-32%	187%	78% 140%
2000-04	2%	-34%	-1%	-2%	5%	-38%	-15%	13%	15% 9%
1975-04		-20%	32%	-30%	23%	-36%	-7%		57% 148%

¹ Preliminary

² Harvest Information Program (HIP) or a point-of-sale electronic record used to identify crane hunters in lieu of a special sandhill crane hunting permit

D.E. SHARP FILE: S:\ICF\DXCEL\DATABASE\GROUP1

07/14/06

TUNDRA SWAN HUNTING PERMITS ISSUED FOR THE EASTERN AND WESTERN POPULATIONS

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WATERFOWL HUNTER ACTIVITY AND SUCCESS

D.E. SHARP S:\WKFILES\DATABOOK\ACTIVITY.123

ESTIMATES OF ACTIVE DUCK HUNTERS BY STATE OF HARVEST (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY
1999	14,000	16,900	(12,300)	20,200	2,200	39,200	13,800	24,000	86,300	4,600
2000	14,000	14,900	(11,300)	19,200	3,100	32,200	13,500	18,400	115,600	4,300
2001 ¹	17,500	16,600	(10,900)	18,000	5,000	36,400	11,300	12,800	140,700	4,200
2002 ¹	12,200	15,700	(14,900)	17,200	4,800	34,700	12,800	19,100	95,000	4,400
2003 ¹	13,400	15,100	(14,200)	18,500	3,900	37,100	13,800	18,200	61,100	4,300
2004 ¹	13,600	19,200	(14,400)	16,800	3,300	36,900	18,800	84,900	3,400	
2005 ¹	12,300	11,600	(12,100)	15,600	2,900	36,300	16,100	15,500	91,500	3,600

¹Preliminary²Estimates for NM, CO, WY, and MT are statewide. MT is summarized in the Pacific Flyway's total and WY, CO, and NM are summarized in the Central Flyway's total.**ESTIMATES OF TOTAL DUCK HUNTER DAYS AFIELD BY STATE OF HARVEST (Harvest Information Program)**

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN	FLWAY	MISS	PAC	FLWAY	U.S.
1999	79,500	126,800	(70,500)	152,200	14,100	224,000	107,500	151,100	508,900	30,100	1,394,200	1,145,900	4,361,600	1,451,900	8,363,600	
2000	81,000	107,400	(72,500)	129,400	24,600	166,300	91,800	105,500	704,900	23,900	1,434,800	1,164,900	4,222,700	1,257,200	8,073,600	
2001 ¹	113,700	100,600	(71,400)	142,000	30,100	127,900	77,600	123,100	727,900	26,500	1,528,000	1,187,400	4,265,100	1,188,200	8,168,700	
2002 ¹	68,700	106,700	(80,600)	141,400	33,500	188,200	92,200	123,200	510,400	26,200	1,290,500	1,162,300	4,004,600	1,163,600	7,621,000	
2003 ¹	86,000	107,600	(70,600)	135,000	30,900	197,700	103,500	119,400	379,200	23,000	1,162,300	1,106,900	4,033,400	1,118,500	7,441,100	
2004 ¹	85,300	124,000	(71,500)	129,100	25,600	194,200	130,300	110,200	497,000	31,300	1,327,000	938,600	3,857,200	1,203,500	7,326,300	
2005 ¹	66,700	87,700	(64,300)	110,900	16,700	186,700	107,700	86,200	488,500	19,700	1,170,800	1,067,300	3,075,500	1,165,600	6,471,200	

¹Preliminary²Estimates for NM, CO, WY, and MT are statewide. MT is summarized in the Pacific Flyway's total and WY, CO, and NM are summarized in the Central Flyway's total.**AVERAGE SEASONAL DUCK HUNTER DAYS AFIELD BY STATE OF HARVEST (Harvest Information Program)**

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY
1999	5.68	7.50	5.73	7.53	6.41	5.71	7.79	6.30	5.90	6.54
2000	5.79	7.21	6.42	6.74	7.94	5.16	6.80	5.73	6.10	5.56
2001 ¹	6.50	6.06	6.55	7.89	6.02	5.12	6.87	6.76	5.17	6.31
2002 ¹	5.63	6.80	5.41	8.22	6.98	5.42	7.20	6.45	5.37	5.95
2003 ¹	6.42	7.13	4.97	7.30	7.92	5.33	7.50	6.56	6.21	5.35
2004 ¹	6.27	6.46	4.97	7.68	7.76	5.26	8.52	5.86	5.85	9.21
2005 ¹	5.42	7.56	5.31	7.11	5.76	5.14	6.69	5.56	5.34	5.47

¹Preliminary²Estimates for NM, CO, WY, and MT are statewide.**AVERAGE SEASONAL DUCK BAG PER HUNTER BY STATE OF HARVEST (Harvest Information Program)**

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY
1999	6.5	13.9	10.0	9.4	11.8	13.7	20.0	12.6	15.9	10.4
2000	8.4	15.2	12.4	11.4	19.6	13.3	17.2	11.9	15.3	10.1
2001 ¹	7.8	10.7	18.7	11.9	12.3	13.6	16.1	13.2	12.1	10.0
2002 ¹	7.8	14.1	8.8	13.1	18.7	15.3	15.3	13.1	9.7	9.8
2003 ¹	10.3	15.5	9.4	12.5	15.6	13.4	16.3	14.0	13.4	9.2
2004 ¹	9.0	14.2	8.4	9.9	10.6	14.7	22.8	11.4	10.7	12.6
2005 ¹	8.1	13.7	9.6	10.6	11.4	14.3	17.8	11.6	13.7	9.9

¹Preliminary²Estimates for NM, CO, WY, and MT are statewide.

ESTIMATES OF ACTIVE GOOSE HUNTERS BY STATE OF HARVEST (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY
1999	15,300	14,400	(10,700)	19,400	1,700	30,600	12,000	24,700	67,900	3,300
2000	18,400	17,300	(12,300)	19,500	2,700	26,000	7,300	21,600	67,000	4,600
2001 ¹	16,700	15,700	(10,600)	17,800	3,400	24,700	7,500	18,200	140,700	4,200
2002 ¹	15,300	14,500	(13,700)	15,500	3,400	24,300	5,500	19,100	95,000	4,400
2003 ¹	15,900	16,100	(14,000)	18,300	2,500	27,600	8,500	20,100	47,000	4,300
2004 ¹	14,700	15,500	(12,800)	15,100	2,300	24,700	10,000	19,200	47,400	3,600
2005 ¹	14,600	12,000	(9,700)	15,400	2,000	26,500	9,900	15,400	58,800	4,000

¹Preliminary²Estimates for NM, CO, WY, and MT are statewide. MT is summarized in the Pacific Flyway's total and WY, CO, and NM are summarized in the Central Flyway's total.**ESTIMATES OF TOTAL GOOSE HUNTER DAYS AFIELD BY STATE OF HARVEST (Harvest Information Program)**

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN	FLWAY	MISS	PAC	FLWAY	U.S.
1999	93,700	93,300	(60,300)	144,100	6,500	160,700	54,200	165,800	232,300	16,600	967,200	516,300	2,248,800	768,200	4,500,500	
2000	111,800	112,200	(80,800)	152,000	16,400	123,500	37,000	126,400	285,500	26,400	991,200	519,800	2,229,200	716,300	4,456,500	
2001 ¹	102,900	87,500	(59,400)	133,600	15,200	132,400	30,000	133,200	251,200	22,500	925,100	855,800	2,157,800	651,900	4,390,500	
2002 ¹	85,100	83,600	(67,400)	129,900	20,600	121,700	22,400	145,400	197,800	21,700	828,200	852,900	2,415,900	625,000	4,722,000	
2003 ¹	111,400	116,200	(65,200)	137,500	13,300	128,900	44,100	146,700	149,700	24,600	872,400	830,800	2,360,700	656,200	4,720,100	
2004 ¹	92,200	98,000	(61,900)	117,500	11,400	123,100	44,500	122,600	140,600	24,800	774,700	672,100	2,086,900	668,300	4,202,000	
2005 ¹	84,300	84,800	(42,500)	129,200	8,300	132,900	42,900	93,300	183,500	20,900	780,100	796,300	1,928,500	638,400	4,143,300	

¹Preliminary²Estimates for NM, CO, WY, and MT are statewide. MT is summarized in the Pacific Flyway's total and WY, CO, and NM are summarized in the Central Flyway's total.**AVERAGE SEASONAL GOOSE HUNTER DAYS AFIELD BY STATE OF HARVEST (Harvest Information Program)**

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY
1999	6.12	6.48	5.64	7.43	3.82	5.25	4.52	6.71	3.42	5.03
2000	6.08	6.49	6.57	7.79	6.07	4.75	5.07	5.85	4.26	5.74
2001 ¹	6.16	5.57	5.60	8.07	4.65	4.96	4.00	7.65	1.79	5.36
2002 ¹	5.56	5.77	4.92	8.38	6.06	5.01	4.07	7.61	2.08	4.93
2003 ¹	7.01	7.22	4.66	7.51	5.32	4.67	5.19	7.30	3.19	5.72
2004 ¹	6.27	6.32	4.84	7.78	4.96	4.98	4.45	6.39	2.97	6.89
2005 ¹	5.77	7.07	4.38	8.39	4.15	5.02	4.33	6.06	3.12	5.23

¹Preliminary²Estimates for NM, CO, WY, and MT are statewide.**AVERAGE SEASONAL GOOSE BAG PER HUNTER BY STATE OF HARVEST (Harvest Information Program)**

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY
1999	4.7	5.9	3.2	5.3	4.9	5.7	3.6	6.8	8.1	3.7
2000	5.7	6.9	6.9	6.4	4.6	6.7	3.3	6.1	9.5	6.3
2001 ¹	4.2	5.5	4.5	5.7	6.7	6.3	3.3	7.2	6.5	4.0
2002 ¹	5.1	9.5	3.8	4.9	3.9	5.5	5.1	6.9	5.4	4.0
2003 ¹	7.6	9.9	4.8	6.3	4.0	5.4	4.9	9.2	6.4	5.8
2004 ¹	5.2	6.7	3.6	4.8	3.9	5.6	5.0	6.8	5.2	6.3
2005 ¹	6.0	9.1	4.0	7.4	3.8	5.8	4.3	6.7	7.8	5.0

¹Preliminary²Estimates for NM, CO, WY, and MT are statewide.

ESTIMATED ACTIVE SANDHILL CRANE HUNTERS¹ IN THE CENTRAL FLYWAY (STATE OF HARVEST)

YR	CO	KS	MT	NM	ND	OK	SD	TX	WY	TOTAL
1975	226		69	806	2,896	80	117	2,733	22	6,949
1976	203		68	752	1,328	148	80	2,497	16	5,092
1977	189		40	921	4,126	339	77	2,329	27	8,048
1978	190		86	836	3,776	334	50	2,390	21	7,683
1979	275		61	745	3,225	307	29	2,356	13	7,011
1980	216		50	625	3,387	275	160	2,439	12	7,164
1981	216		23	598	3,315	269	103	2,543	14	7,081
1982	138		56	386	2,429	342	260	1,553	8	5,172
1983	211		64	253	3,551	384	225	2,435	20	7,143
1984	206		51	301	3,189	467	208	2,380	19	6,821
1985	187		37	216	2,383	372	168	2,613	12	5,988
1986	106		17	178	3,095	299	149	1,991	5	5,840
1987	113		29	133	2,529	358	120	1,942	5	5,229
1988	117		48	171	1,779	531	78	2,497	11	5,232
1989	74		52	152	2,018	492	153	2,805	6	5,752
1990	101		33	180	2,614	395	172	4,130	6	7,631
1991	153		69	220	1,674	370	139	3,231	3	5,859
1992	96		95	182	1,776	330	153	2,655	7	5,294
1993	87	294	97	218	2,223	357	140	3,602	5	7,023
1994	93	293	79	211	2,497	456	151	3,350	11	7,141
1995	154	393	118	211	2,408	331	143	3,707	6	7,471
1996	91	382	82	166	2,744	355	169	3,356	9	7,354
1997	67	452	68	124	2,386	264	178	4,515	10	8,064
1998	96	480	43	155	2,785	345	237	4,022	10	8,173
1999	133	533	60	204	2,444	375	173	2,699	8	6,629
2000	192	430	64	160	2,481	223	209	3,180	11	6,950
2001	202	555	72	173	2,934	391	145	3,554	13	8,039
2002	175	517	85	166	2,407	237	144	4,037	15	7,783
2003	236	495	60	244	2,271	64	114	4,821	10	8,315
2004	339	538	97	260	2,509	288	79	5,193	17	9,320
2005 ²	273	264	85	231	3,349	243	165	5,314	24	9,948
AVERAGES:										
1975-79	217		65	812	3,070	242	71	2,461	20	6,957
1980-89	158		43	301	2,768	379	162	2,320	11	6,142
1990-99	107	404	74	187	2,355	358	166	3,527	8	7,064
2000-04	229	507	76	201	2,520	241	138	4,157	13	8,081
1975-04	163	447	62	332	2,639	326	144	3,052	12	6,908
CURRENT YEAR PERCENT CHANGE FROM:										
2004	-19%	-51%	-12%	-11%	33%	-16%	109%	2%	41%	7%
1975-79	26%		31%	-72%	9%	1%	134%	116%	21%	43%
1980-89	72%		99%	-23%	21%	-36%	2%	129%	114%	62%
1990-99	155%	-35%	14%	23%	42%	-32%	0%	51%	220%	41%
2000-04	19%	-48%	12%	15%	33%	1%	19%	28%	82%	23%
1975-04	68%	-41%	36%	-30%	27%	-25%	15%	74%	105%	44%

¹ Those permittees reporting hunting cranes 1 or more times

² Preliminary

NUMBER OF ACTIVE TUNDRA SWAN HUNTERS FOR THE EASTERN AND WESTERN POPULATIONS (STATE OF HARVEST)

YR	EASTERN POPULATION				WESTERN POPULATION				TOTAL	
	MT	ND	SD	NC	V/A	UT	NV	MT	AK	TOTAL
1964						940				940
1965						915				915
1966						950				950
1967						910				910
1968						930				930
1969						2,225				2,225
1970						2,200	275			2,475
1971						2,146	415	245		2,806
1972						2,100	400	265		2,765
1973						2,175	375	230		2,780
1974						2,200	385	350		2,935
1975						2,175	390	350		2,915
1976						2,150	410	380		2,940
1977						2,264	380			2,644
1978						2,150	370	350		2,870
1979						2,150	390	390		2,930
1980						2,100	395	400		2,895
1981						2,225	445	330		3,000
1982						2,200	400	340		2,940
1983						2,125	507	375		3,077
1984	58					2,150	494	305		2,949
1985	60					2,021	436	275		2,732
1986	51					2,075	480	270		2,825
1987	106					5,120	1,924	404	395	7,764
1988	60	301				5,609	1,875	195	355	7,843
1989	117	865				5,945	1,925	262	400	8,105
									81	8,613
1990	121	816				4,859	6,780	2,050	232	7,722
1991	131	1,565				4,849	7,883	1,950	181	10,251
1992	139	1,648				4,675	516	8,330	1,875	10,699
1993	119	1,603	1,350			4,802	334	8,208	2,025	10,831
1994	145	1,616	1,260			4,790	489	8,300	2,100	11,085
1995	175	1,638	900	4,776		495	7,984	2,172	287	10,901
1996	219	1,549	840	3,773		476	6,857	2,392	331	10,076
1997	262	1,671	872	3,892		503	7,200	2,392	328	125
1998	308	1,559	851	3,762		481	6,961	2,420	418	3,240
1999	282	1,675	690	3,836		445	6,928	2,338	435	10,322
2000	260	1,566	606	4,047		513	6,992	1,680	360	10,239
2001	233	1,553	827	3,997		510	7,120	1,560	301	9,392
2002	200	1,550	693	3,951		485	6,879	1,658	340	9,411
2003	199	1,436	587	4,257		520	6,999	1,740	182	9,175
2004	230	1,564	579	3,958		526	6,857	1,600	221	9,341
2005	240	1,715	539	4,180		527	7,201	1,618	380	9,169

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AVERAGE SEASONAL TUNDRA SWAN BAG (RETRIEVED & UNRETRIEVED) PER ACTIVE HUNTER

YR	EASTERN POPULATION					WESTERN POPULATION			TOTAL	
	MT	ND	SD	NC	VA	UT	NV	MT	AK	TOTAL
1964						0.45				0.45
1965						0.43				0.43
1966						0.60				0.60
1967						0.37				0.37
1968						0.67				0.67
1969						0.74				0.79
1970						0.57				0.67
1971						0.60	0.29	0.37		0.53
1972						0.55	0.35	0.57		0.52
1973						0.66	0.32	0.49		0.60
1974						0.72	0.56	0.90		0.72
1975						0.71	0.57	0.87		0.71
1976						0.58	0.55	0.40		0.55
1977						0.83	0.25		0.84	0.84
1978						0.70	0.25	0.47		0.61
1979						0.71	0.66	0.86		0.73
1980						0.64	0.30	0.68		0.60
1981						0.87	0.79	0.59		0.82
1982						0.69	0.46	0.44		0.63
1983						0.49	0.66	0.38		0.61
1984						0.39	0.60	0.51		0.60
1985						0.55	0.37	0.36		0.55
1986						0.53	0.51	0.53		0.50
1987						0.60	0.62	0.33		0.53
1988						0.58	0.55	0.51		0.55
1989						0.53	0.29	0.53		0.52
1990						0.64	0.29	0.63		0.60
1991						0.84	0.61	0.61		0.77
1992						0.61	0.45	0.61		0.61
1993						0.71	0.62	0.40		0.71
1994						0.51	0.62	0.41		0.56
1995						0.48	0.82	0.41		0.54
1996						0.48	0.30	0.61		0.50
1997						0.56	0.51	0.64		0.54
1998						0.43	0.29	0.65		0.55
1999						0.57	0.36	0.61		0.53
2000						0.41	0.52	0.61		0.57
2001						0.27	0.59	0.71		0.54
2002						0.18	0.49	0.51		0.27
2003						0.44	0.48	0.47		0.30
2004						0.34	0.55	0.22		0.26
2005						0.57	0.36	0.61		0.49
						0.50	0.44	0.30		0.43
						0.42	0.40	0.46		0.48
						0.28	0.48	0.32		0.49
						0.29	0.18	0.07		0.45
						0.48	0.50	0.25		0.45
						0.49	0.49	0.29		0.55

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**DUCK HARVESTS
IN THE
UNITED STATES**

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ESTIMATED REGULAR SEASON MALLARD HARVESTS (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN	ATL	MISS	PAC	U.S.
	FLYWAY	FLYWAY	FLYWAY	FLYWAY	FLYWAY	FLYWAY	FLYWAY	FLYWAY	FLYWAY	FLYWAY	FLYWAY	FLYWAY	FLYWAY	FLYWAY	FLYWAY
1999	38,337	114,167	29,678	91,025	7,851	254,256	114,589	145,196	182,755	17,675	995,528	444,068	3,136,858	1,318,474	5,894,928
2000	49,420	102,846	29,211	118,548	21,894	182,521	116,379	110,607	283,116	21,447	1,035,988	522,968	3,272,671	1,237,479	6,069,106
2001 ¹	80,375	96,280	26,777	131,487	22,761	243,380	102,371	126,237	303,398	24,522	1,157,587	467,064	2,768,031	1,018,040	5,410,722
2002 ¹	40,913	96,063	22,929	114,096	37,328	102,160	116,388	219,889	23,249	1,007,034	554,703	2,423,134	930,726	4,915,597	
2003 ¹	59,600	95,711	38,200	127,992	25,148	231,335	110,031	124,593	130,070	19,430	962,111	427,004	2,570,485	1,058,281	5,018,178
2004 ¹	47,854	133,582	32,575	95,874	15,646	223,924	186,755	93,993	117,021	22,210	969,435	422,004	2,199,931	940,160	4,531,530
2005 ¹	31,089	84,193	26,871	89,415	8,126	233,142	125,375	81,701	171,208	17,025	868,144	444,305	2,049,383	1,105,095	4,466,927

¹Preliminary

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ESTIMATED REGULAR SEASON GADWALL HARVESTS (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN	ATL	MISS	PAC	U.S.
	FLYWAY	FLYWAY	FLYWAY	FLYWAY	FLYWAY	FLYWAY	FLYWAY	FLYWAY	FLYWAY	FLYWAY	FLYWAY	FLYWAY	FLYWAY	FLYWAY	FLYWAY
1999	7,081	27,189	1,663	16,045	2,535	106,500	62,244	41,960	290,029	1,306	556,552	62,212	1,069,106	133,826	1,821,696
2000	8,540	29,363	2,570	23,452	7,003	94,423	44,235	24,162	373,472	2,193	609,414	67,496	1,267,013	132,511	2,076,433
2001 ¹	8,009	18,868	1,659	13,286	6,552	83,302	28,489	23,638	305,469	2,043	491,316	33,107	828,527	120,428	1,473,378
2002 ¹	4,868	37,731	2,201	21,498	8,532	101,338	34,186	36,482	154,683	2,432	403,950	41,936	673,853	131,618	1,251,359
2003 ¹	10,360	41,063	1,860	20,928	7,480	96,155	40,657	37,432	163,195	3,600	422,728	38,479	858,504	154,055	1,473,766
2004 ¹	8,574	41,374	1,786	12,848	4,364	125,440	69,687	35,867	178,924	4,194	483,058	42,269	654,488	202,160	1,363,975
2005 ¹	10,388	21,629	1,198	9,495	5,157	95,382	57,475	28,511	269,041	1,686	499,963	34,337	635,321	194,332	1,363,954

¹Preliminary

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ESTIMATED REGULAR SEASON AMERICAN WIGEON HARVESTS (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN	ATL	MISS	PAC	U.S.
	FLYWAY	FLYWAY	FLYWAY	FLYWAY	FLYWAY	FLYWAY	FLYWAY								
1999	4,070	7,075	3,741	7,714	2,077	22,536	14,452	11,400	126,778	1,828	201,671	49,593	170,804	399,611	821,678
2000	4,620	12,520	1,456	13,143	5,013	22,025	10,811	8,680	136,975	1,868	217,111	38,970	217,539	301,306	774,927
2001 ¹	8,993	6,172	1,817	6,261	6,322	24,574	8,038	9,958	129,091	3,041	204,268	36,719	169,185	320,580	730,752
2002 ¹	8,620	13,444	1,917	15,169	6,328	32,086	11,898	14,565	80,427	3,370	187,825	33,078	147,440	319,232	687,574
2003 ¹	8,697	15,513	1,156	13,328	6,147	23,742	11,322	15,374	52,028	3,699	151,005	39,505	124,228	283,490	598,228
2004 ¹	9,038	13,371	2,491	11,272	3,879	44,458	23,171	17,593	97,800	3,241	226,316	19,374	149,793	354,439	749,922
2005 ¹	6,340	7,332	2,111	9,043	3,748	22,286	16,307	7,478	126,495	2,230	203,370	20,686	121,240	356,128	701,424

¹Preliminary

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ESTIMATED REGULAR SEASON NORTHERN PINTAIL HARVESTS (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN	ATL	MISS	PAC	U.S.
1999	895	5,410	998	5,245	1,091	26,716	6,259	12,984	69,435	871	129,904	25,101	153,304	230,404	538,714
2000	2,310	7,453	857	7,474	3,022	18,645	5,626	8,211	81,975	325	135,897	20,050	153,036	203,033	512,016
2001 ¹	1,827	7,230	632	6,719	2,414	21,381	4,137	10,159	79,733	380	134,612	19,226	122,522	157,475	433,885
2002 ¹	1,653	4,771	781	4,281	1,138	17,716	9,257	18,513	555	60,407	17,089	102,481	143,432	323,409	
2003 ¹	2,174	4,157	653	2,974	2,063	17,806	1,132	6,149	18,383	148	55,641	18,134	123,318	144,019	341,113
2004 ¹	1,275	3,280	705	3,030	711	21,004	5,706	4,763	22,330	477	63,280	10,254	90,542	147,040	311,115
2005 ¹	3,666	685	3,052	1,113	20,670	5,614	5,141	37,834	381	78,919	17,339	107,276	208,494	412,029	

¹Preliminary

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ESTIMATES OF REGULAR SEASON NORTHERN SHOVELER HARVESTS (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN	ATL	MISS	PAC	U.S.
1999	1,791	4,578	914	6,017	1,303	22,899	5,462	14,250	63,584	697	121,495	17,350	201,054	192,836	532,736
2000	2,030	1,789	771	3,221	1,548	11,339	3,530	5,630	71,761	569	102,188	17,950	196,306	131,756	448,200
2001 ¹	1,405	3,350	237	4,276	2,414	18,049	1,537	13,277	86,291	143	130,979	17,107	231,748	146,420	526,254
2002 ¹	1,965	3,903	568	4,560	2,773	20,069	3,252	9,393	39,082	1,024	86,590	14,138	128,638	157,920	387,285
2003 ¹	4,732	4,258	754	5,618	1,934	19,290	4,838	9,759	36,593	493	88,270	12,748	209,236	157,744	467,998
2004 ¹	2,781	5,298	188	2,424	1,972	22,404	7,781	9,331	51,444	858	104,482	9,865	158,905	206,157	479,409
2005 ¹	3,972	4,277	399	3,617	1,150	20,208	8,688	8,974	86,368	163	137,817	18,672	195,236	189,925	541,650

¹Preliminary

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ESTIMATED REGULAR SEASON WOOD DUCK HARVESTS (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN	ATL	MISS	PAC	U.S.
1999	1,628	4,439	1,330	11,725	422	2,726	7,965	6,334	87,574	348	124,492	391,514	924,461	52,247	1,492,715
2000	1,750	2,663	600	6,958	1,622	1,963	3,640	5,630	93,761	81	118,688	378,122	761,300	54,547	1,312,657
2001 ¹	1,967	3,879	1,343	2,291	1,264	1,111	1,537	2,917	95,955	570	112,835	385,682	633,140	53,798	1,185,454
2002 ¹	1,295	3,253	852	3,536	1,920	2,106	2,617	4,901	60,886	299	81,865	372,941	720,392	37,838	1,212,835
2003 ¹	1,790	3,751	553	3,084	559	2,226	7,823	6,149	49,600	247	75,782	336,934	754,754	40,962	1,208,432
2004 ¹	2,781	3,027	658	3,273	453	2,217	7,954	3,791	50,031	95	74,280	264,439	697,338	35,711	1,071,768
2005 ¹	1,222	1,589	628	4,748	482	1,963	10,426	4,020	42,038	272	67,386	321,781	663,704	55,545	1,108,415

¹Preliminary

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ESTIMATED REGULAR SEASON AMERICAN BLACK DUCK HARVESTS (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN	ATL	MISS	PAC	FLYWAY	FLYWAY	FLYWAY	U.S.
	FLYWAY	FLYWAY	FLYWAY	FLYWAY	FLYWAY	FLYWAY	U.S.											
1999	0	0	0	0	0	0	0	0	0	0	0	0	0	101,997	57,682	0	159,679	
2000	0	0	0	0	0	0	0	0	0	0	0	0	0	116,096	58,371	0	174,467	
2001 ¹	0	0	0	0	0	0	0	0	0	0	0	0	0	94,559	30,636	0	125,195	
2002 ¹	0	0	0	0	0	0	248	0	0	0	454	128,620	47,465	0	176,538	0	129,347	
2003 ¹	134	0	0	0	0	0	0	0	134	0	0	267	95,108	33,971	0	110,612	0	129,886
2004 ¹	0	0	0	0	0	0	0	0	0	0	0	0	74,920	35,692	0	0	0	0
2005 ¹	0	0	0	0	0	0	115	0	0	0	115	93,406	36,365	0	0	0	0	0

¹ Preliminary

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ESTIMATED REGULAR SEASON MOTTLED DUCK HARVESTS (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN	ATL	MISS	PAC	FLYWAY	FLYWAY	FLYWAY	U.S.
	FLYWAY	U.S.																
1999	0	0	0	0	0	0	0	0	0	7,607	0	7,607	5,648	34,349	0	47,604	0	49,018
2000	0	0	0	0	0	0	0	0	0	12,047	0	12,047	9,074	27,897	0	0	0	53,803
2001 ¹	0	0	0	0	0	0	0	0	0	14,497	0	14,497	8,780	30,526	0	0	0	40,758
2002 ¹	0	0	0	0	0	0	0	0	0	6,994	0	6,994	10,651	23,114	0	0	0	63,126
2003 ¹	0	0	0	0	0	0	0	0	0	10,752	0	10,752	10,361	42,013	0	0	0	64,260
2004 ¹	0	0	0	0	0	0	0	0	0	14,133	0	14,133	15,292	34,835	0	0	0	51,878
2005 ¹	0	0	0	0	0	0	0	0	0	14,904	0	14,904	10,641	26,333	0	0	0	0

¹ Preliminary

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ESTIMATED REGULAR SEASON MEXICAN DUCK X MALLARD HYBRID HARVESTS (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN	ATL	MISS	PAC	FLYWAY	FLYWAY	FLYWAY	U.S.
	FLYWAY	U.S.																
1999	0	0	0	0	0	211	0	0	0	4,876	0	5,087	0	0	0	0	485	5,573
2000	0	0	0	0	1,474	0	0	0	0	6,286	0	7,760	0	0	0	0	1,852	9,612
2001 ¹	0	0	0	0	805	0	0	0	0	6,558	0	7,363	0	0	0	0	747	8,110
2002 ¹	0	0	0	4,906	0	0	0	0	0	1,028	0	5,934	0	0	0	0	1,446	7,380
2003 ¹	0	0	0	2,450	0	0	0	0	0	3,469	0	5,919	0	0	0	0	895	6,814
2004 ¹	0	0	0	1,390	0	0	0	0	0	283	0	1,673	0	0	0	0	279	1,951
2005 ¹	0	0	0	0	297	0	0	0	0	764	0	1,061	0	0	0	0	878	1,939

¹ Preliminary

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ESTIMATED BLUE-WINGED TEAL HARVEST DURING SPECIAL SEPTEMBER SEASONS (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN	ATL	MISS	PAC	FLYWAY	U.S.
1999	2,360	28,022	0	1,690	7,852	130,094					170,017	24,787	437,537	0		632,341
2000	1,610	27,724	10,308	3,244	9,597	196,688					249,171	21,376	430,937	0		701,484
2001	1,124	10,580	10,232	1,609	11,230	219,869					254,644	14,942	257,563	0		527,149
2002	1,447	8,999	4,839	1,920	2,221	58,623					77,049	11,801	112,648	0		201,498
2003	1,3581	21,393	13,108	1,891	13,792	99,894					153,660	10,920	296,755	0		461,334
2004	1,4287	19,173	6,060	517	2,767	63,033					95,837	6,688	106,309	0		208,834
2005	1	3,896	10,387	5,087	260	7,485	89,044				116,157	15,357	100,272	0		231,786

¹ Preliminary² Includes special seasons in FL, KY, and TN initiated in 1981

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ESTIMATED REGULAR SEASON BLUE-WINGED TEAL HARVESTS (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN	ATL	MISS	PAC	FLYWAY	U.S.	
1999	4,558	6,936	1,663	14,039	1,091	23,808	683	22,167	30,817	1,480	107,243	57,089	298,936	58,968		522,236	
2000	6,580	2,385	1,371	8,247	3,612	23,006	1,544	13,254	64,952	1,300	126,250	56,819	279,651	38,436		501,156	
2001	1,2740	1,058	2,117	11,453	1,150	34,154	473	20,017	46,942	238	120,341	36,659	354,233	42,698		553,931	
2002	1,4064	3,578	852	12,099	1,422	43,731	396	21,100	43,402	2,176	132,820	40,769	338,598	52,022		564,209	
2003	1,3837	4,258	704	7,380	473	37,097	206	16,844	37,634	1,036	109,468	34,953	314,434	57,426		516,280	
2004	1,7532	6,812	658	4,606	33	25,205	518	14,289	71,231	1,716	132,598	66,356	259,179	71,981		530,114	
2005	1	5,500	1,589	1,255	14,243	445	34,758	1,470	14,770	44,713	816	119,558	67,016	213,807	76,592		476,973

¹ Preliminary

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ESTIMATED ALL-SEASON BLUE-WINGED TEAL HARVESTS (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN	ATL	MISS	PAC	FLYWAY	U.S.	
1999	6,919	34,958	1,663	14,039	2,781	23,808	8,534	22,167	160,910	1,480	277,260	81,876	736,473	58,968		1,154,577	
2000	8,190	30,109	1,371	18,555	6,856	23,006	11,142	13,254	261,640	1,300	375,421	78,195	710,588	38,436		1,202,640	
2001	1,3864	11,638	2,117	21,685	2,759	34,154	11,703	20,017	266,811	238	374,985	51,601	611,796	42,698		1,081,080	
2002	1,4511	12,577	852	16,938	3,342	43,731	2,617	21,100	102,025	2,176	209,869	52,570	451,246	52,022		765,706	
2003	1,7418	25,651	704	20,488	2,364	37,097	13,998	16,844	137,528	1,036	263,127	45,872	611,188	57,426		977,614	
2004	1,1819	25,985	658	10,666	550	25,205	3,285	14,289	134,264	1,716	228,435	73,044	365,488	71,981		738,948	
2005	1	9,395	11,975	1,255	19,330	705	34,758	8,955	14,770	133,756	816	235,715	82,372	314,079	76,592		708,759

¹ Preliminary

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ESTIMATED GREEN-WINGED TEAL HARVEST DURING SPECIAL SEPTEMBER SEASONS (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN	ATL	MISS	PAC	FLYWAY	U.S.
1999	244	3,052	0	282	2,503	6,436	12,518	8,925	18,710	0	40,152					
2000	770	4,621	1,675	958	4,192	20,428	32,644	7,684	22,166	0	62,493					
2001	1,265	1,763	1,069	1,379	1,891	21,055	28,422	7,345	11,714	0	47,481					
2002	1	447	3,903	1,675	1,209	872	8,434	16,540	2,113	5,834	0	24,487				
2003	1	1,791	9,024	3,635	1,032	3,500	12,660	31,641	3,186	27,174	0	62,001				
2004	1	695	2,901	2,061	194	173	5,088	11,112	2,331	13,242	0	26,885				
2005	1	1,375	2,200	1,243	148	668	8,025	13,660	4,286	9,260	0	27,206				

¹ Preliminary

² Includes special seasons in FL, KY, and TN initiated in 1981

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ESTIMATED REGULAR SEASON GREEN-WINGED TEAL HARVESTS (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN	ATL	MISS	PAC	FLYWAY	U.S.
1999	6,919	21,918	2,743	29,776	3,908	19,992	34,251	24,067	193,873	1,567	339,014	232,628	889,529	529,706	1,990,876	
2000	9,450	27,873	1,928	19,973	5,308	23,224	15,885	24,983	187,784	2,437	317,944	183,099	669,336	418,324	1,588,703	
2001	1	8,009	19,750	2,381	18,326	5,633	13,467	14,186	18,307	197,088	3,327	300,474	134,894	561,568	331,307	1,328,243
2002	1	8,754	32,419	2,910	31,921	3,484	34,688	20,940	25,864	114,984	3,071	279,035	156,135	542,564	387,280	1,385,014
2003	1	16,115	24,536	1,106	22,140	4,127	26,116	18,630	24,063	113,248	3,649	253,730	133,969	697,677	368,625	1,454,000
2004	1	9,038	29,012	2,021	20,726	2,295	31,389	25,419	17,982	119,565	4,766	262,214	112,638	484,777	487,240	1,346,870
2005	1	6,416	13,197	1,654	16,165	5,529	21,594	29,138	14,396	233,500	1,741	343,330	158,185	504,589	508,967	1,515,072

¹ Preliminary

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ESTIMATED ALL-SEASON GREEN-WINGED TEAL HARVESTS (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN	ATL	MISS	PAC	FLYWAY	U.S.
1999	7,163	24,970	2,743	29,776	4,190	19,992	36,755	24,067	200,309	1,567	351,531	241,552	908,239	529,706	2,031,028	
2000	10,220	32,493	1,028	21,648	6,266	23,224	20,077	24,983	208,212	2,437	350,588	190,783	691,501	418,324	1,651,197	
2001	1	9,274	21,513	2,381	19,395	7,012	13,467	16,077	18,307	218,143	3,327	328,896	142,239	573,282	331,307	1,375,724
2002	1	9,201	36,322	2,910	33,596	4,693	34,688	21,812	25,864	123,418	3,071	295,575	158,248	548,398	387,280	1,389,501
2003	1	17,905	33,560	1,106	25,775	5,159	26,116	22,130	24,063	125,908	3,649	285,370	137,155	724,851	368,625	1,516,001
2004	1	9,733	31,913	2,021	22,787	2,489	31,389	25,592	17,982	124,653	4,766	273,326	114,969	498,019	487,240	1,373,555
2005	1	7,791	15,397	1,654	17,408	5,677	21,594	29,807	14,396	241,526	1,741	356,990	162,471	513,850	508,967	1,542,278

¹ Preliminary

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ESTIMATED REGULAR SEASON BLACK-BELLIED WHISTLING DUCK HARVESTS (Harvest Information Program)

R	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN	ATL	MISS	PAC	U.S.
	FLYWAY														
1999	0	0	0	0	0	0	0	0	1,170	0	1,170	0	0	0	1,170
2000	0	0	0	0	0	0	0	0	2,881	0	2,881	252	0	370	3,504
2001 ¹	0	0	0	0	0	0	0	0	4,832	0	4,832	138	535	0	5,505
2002 ¹	0	0	0	0	0	0	0	0	5,142	0	5,142	1,467	0	0	6,609
2003 ¹	0	0	0	0	0	0	0	0	7,284	0	7,284	714	636	0	8,634
2004 ¹	0	0	0	0	0	0	0	0	11,872	0	11,872	1,916	1,185	0	14,973
2005 ¹	0	0	0	0	0	0	0	0	3,057	0	3,057	1,056	4,285	0	8,399

¹Preliminary

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ESTIMATED REGULAR SEASON FULVOUS TREE DUCK HARVESTS (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN	ATL	MISS	PAC	U.S.
	FLYWAY														
1999	0	0	0	0	0	0	0	0	0	0	0	0	194	327	0
2000	0	0	0	0	0	0	0	0	0	0	0	252	0	0	521
2001 ¹	0	0	0	0	0	0	0	0	0	0	0	138	891	0	252
2002 ¹	0	0	0	0	0	0	0	0	0	0	0	98	138	0	1,029
2003 ¹	0	0	0	0	0	0	0	0	520	0	520	0	0	0	236
2004 ¹	0	0	0	0	0	0	0	0	283	0	283	776	1,461	0	520
2005 ¹	0	0	0	0	0	0	0	0	0	0	0	411	0	0	2,520

¹Preliminary

D.E. SHARP FILE: S:\ICF_D\projects\DATA\BOOK\NH\IDABHARV\HIP.XLS 07/25/06

ESTIMATED REGULAR SEASON REDHEAD HARVESTS (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN	ATL	MISS	PAC	U.S.
											FLYWAY	FLYWAY	FLYWAY	FLYWAY	
1999	1,058	3,468	582	2,314	70	18,719	2,731	7,125	62,999	871	99,938	3,814	61,723	16,831	182,306
2000	840	2,832	600	2,448	516	9,922	3,530	4,926	60,237	894	86,745	7,457	48,608	14,982	157,792
2001 ¹	422	2,821	0	1,985	805	14,022	2,246	5,935	64,200	143	92,579	6,141	50,617	11,493	160,831
2002 ¹	581	2,927	213	1,861	213	5,946	2,142	953	13,370	512	28,719	2,282	28,995	11,871	71,866
2003 ¹	1,151	1,217	302	2,203	344	12,168	926	3,208	12,487	395	34,400	5,570	37,828	22,922	100,719
2004 ¹	463	2,018	658	970	97	7,935	2,248	2,236	18,373	95	35,093	5,196	35,334	22,218	97,842
2005 ¹	1,528	3,788	399	3,391	408	20,785	2,005	3,926	40,127	326	76,684	9,291	62,051	20,881	168,908

¹ Preliminary

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ESTIMATES OF REGULAR-SEASON CANVASBACK HARVESTS (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN	ATL	MISS	PAC	U.S.
											FLYWAY	FLYWAY	FLYWAY	FLYWAY	
1999	81	832	582	926	106	7,633	1,366	1,742	20,284	87	33,639	5,566	40,510	20,127	99,841
2000	140	149	171	0	74	4,906	1,544	1,642	18,333	0	26,960	16,474	49,183	20,029	112,646
2001 ¹	141	529	158	305	0	4,998	236	302	7,248	95	14,013	1,546	11,334	9,332	36,225
2002 ¹	0	0	0	0	0	124	0	0	1,028	0	1,152	0	604	1,299	3,055
2003 ¹	128	101	151	551	43	2,671	823	936	2,601	0	8,005	4,738	11,259	11,380	35,383
2004 ¹	0	252	0	0	65	4,784	346	583	2,827	0	8,857	9,772	10,824	15,026	44,479
2005 ¹	229	489	114	452	37	7,621	1,470	561	6,497	0	17,470	4,433	32,786	9,729	64,420

¹ Preliminary

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ESTIMATED REGULAR SEASON RING-NECKED DUCK HARVESTS (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN	ATL	MISS	PAC	U.S.
											FLYWAY	FLYWAY	FLYWAY	FLYWAY	
1999	733	4,717	0	2,006	669	6,724	12,176	7,442	58,708	871	94,044	147,511	264,504	47,041	553,100
2000	980	1,341	171	1,675	663	7,523	8,273	3,871	84,332	81	108,912	95,470	257,504	34,268	496,154
2001 ¹	843	2,645	711	2,291	690	6,803	3,665	3,420	58,333	48	79,447	66,583	226,706	38,035	410,771
2002 ¹	715	5,204	497	3,071	1,422	6,070	7,376	4,084	41,756	427	70,622	91,736	250,330	39,101	451,789
2003 ¹	1,023	4,765	101	2,533	860	3,413	7,617	2,139	39,715	197	62,363	112,806	239,855	36,326	451,350
2004 ¹	464	4,793	235	1,333	614	8,168	11,413	2,138	37,311	381	66,851	74,349	233,979	58,351	433,530
2005 ¹	611	2,688	513	2,487	631	10,277	14,168	2,057	42,802	109	76,343	109,021	240,090	49,729	475,184

¹ Preliminary

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ESTIMATED REGULAR SEASON GREATER SCAUP HARVESTS (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN	ATL	MISS	PAC	U.S.
1999	0	139	0	0	0	182	569	158	1,755	0	2,803	8,305	9,272	19,359	39,739
2000	70	0	86	129	0	218	110	0	1,833	0	2,446	12,850	19,085	19,385	53,766
2001 ¹	0	176	0	0	115	139	0	0	1,381	0	1,811	7,582	8,060	15,611	33,064
2002 ¹	45	217	71	745	0	124	159	408	1,851	0	3,619	17,809	30,216	20,614	72,288
2003 ¹	0	0	110	43	0	103	134	867	0	1,257	17,344	14,469	16,122	49,192	
2004 ¹	0	126	0	0	0	350	346	583	2,261	0	3,667	16,837	28,056	22,958	71,518
2005 ¹	0	0	0	113	0	462	134	280	1,529	0	2,518	18,237	24,812	12,447	58,014

¹PreliminaryD.E. SHARP FILE: S:\ICF_D\projects\data\book\H\P\Riverharv\rip.xls
07/14/06**ESTIMATED REGULAR SEASON LESSER SCAUP HARVESTS (Harvest Information Program)**

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN	ATL	MISS	PAC	U.S.
1999	163	277	582	1,389	0	18,174	455	3,483	12,873	348	37,744	64,263	80,808	29,260	212,075
2000	770	149	771	773	295	23,006	882	4,223	52,380	81	83,331	32,331	184,008	31,353	331,022
2001 ¹	422	882	79	916	230	23,602	473	2,917	42,110	95	71,725	97,228	165,746	29,888	364,587
2002 ¹	1,474	2,060	781	3,536	569	26,264	3,411	4,492	42,373	427	85,386	84,399	185,381	35,280	390,446
2003 ¹	895	913	201	2,644	129	17,065	1,647	3,208	17,863	444	45,008	60,939	153,617	39,032	298,597
2004 ¹	811	1,766	188	848	0	20,187	1,383	8,068	33,071	477	66,799	54,891	108,351	52,347	282,388
2005 ¹	382	244	114	339	37	21,709	2,406	4,207	24,840	163	54,442	63,698	111,357	29,471	258,988

¹PreliminaryD.E. SHARP FILE: S:\ICF_D\projects\data\book\H\P\Riverharv\rip.xls
07/14/06**ESTIMATED REGULAR SEASON TOTAL (LESSER & GREATER) SCAUP HARVESTS (Harvest Information Program)**

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN	ATL	MISS	PAC	U.S.
1999	163	416	582	1,389	0	18,356	1,024	3,642	14,628	348	40,548	72,568	90,080	48,619	251,814
2000	840	149	857	902	285	23,224	993	4,223	54,214	81	85,777	45,180	203,093	50,738	384,788
2001 ¹	422	1,058	79	916	345	23,741	473	2,917	43,491	95	73,536	104,811	173,806	45,499	397,651
2002 ¹	1,519	2,277	852	4,281	569	26,388	3,569	4,901	44,225	427	89,006	102,208	215,597	55,894	462,705
2003 ¹	895	913	201	2,754	172	17,065	1,750	3,342	18,730	444	46,265	78,283	168,086	55,154	347,789
2004 ¹	811	1,892	188	848	0	20,537	1,729	8,651	35,333	477	70,466	71,727	136,407	75,306	353,906
2005 ¹	382	244	114	452	37	22,171	2,540	4,487	26,369	163	56,960	81,936	136,169	41,919	316,983

¹PreliminaryD.E. SHARP FILE: S:\ICF_D\projects\data\book\H\P\Riverharv\rip.xls
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ESTIMATED REGULAR SEASON COMMON GOLDENEYE HARVESTS (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN	FLYWAY	MISS	PAC	FLYWAY	U.S.
1999	163	694	166	154	211	545	0	158	780	87	2,959	9,690	22,587	15,413	50,649	
2000	2,310	2,236	685	644	74	0	0	352	1,048	731	8,080	11,481	18,055	19,103	56,718	
2001 ¹	1,194	882	869	153	0	694	236	201	1,381	808	6,448	6,027	22,485	15,120	50,049	
2002 ¹	1,563	542	213	838	569	619	397	136	1,234	2,304	8,445	12,377	37,405	37,238	95,435	
2003 ¹	3,581	913	503	1,101	129	890	721	1,471	694	1,677	11,678	13,439	32,612	41,932	99,661	
2004 ¹	1,506	1,514	376	364	226	467	1,902	583	283	667	7,888	13,036	30,290	25,142	76,357	
2005 ¹	535	122	399	226	0	115	535	467	382	544	3,326	18,760	23,420	25,942	71,448	

¹ Preliminary

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ESTIMATED REGULAR SEASON RUDDY DUCK HARVESTS (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN	FLYWAY	MISS	PAC	FLYWAY	U.S.
1999	163	277	0	309	0	1,272	228	1,583	3,316	261	7,409	29,188	16,403	11,607	64,607	
2000	210	447	0	258	0	545	221	821	3,405	0	5,906	11,029	6,418	2,863	26,217	
2001 ¹	70	0	0	305	0	1,250	236	704	1,381	0	3,946	6,629	4,191	5,321	20,087	
2002 ¹	268	0	71	186	0	619	79	136	617	0	1,977	7,180	4,715	3,191	17,063	
2003 ¹	0	406	0	110	0	742	0	267	173	49	1,748	2,474	13,202	5,632	23,056	
2004 ¹	0	126	0	121	129	117	173	778	565	0	2,009	4,307	6,428	5,227	17,971	
2005 ¹	153	122	0	0	0	115	267	467	1,146	218	2,489	11,709	4,235	5,742	24,175	

¹ Preliminary

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ESTIMATED REGULAR SEASON HOODED MEGANSER HARVESTS (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN	FLYWAY	MISS	PAC	FLYWAY	U.S.
1999	0	694	0	154	0	727	1,934	317	8,972	0	12,798	29,269	46,577	4,807	93,451	
2000	140	447	0	129	0	436	1,103	352	5,762	81	8,450	35,960	44,927	4,984	94,321	
2001 ¹	141	705	158	764	115	278	946	201	6,213	0	9,520	26,608	43,362	4,570	84,060	
2002 ¹	179	1,301	0	465	71	619	872	0	5,965	85	9,559	32,978	60,048	2,838	105,422	
2003 ¹	0	913	0	330	86	1,039	618	802	3,295	49	7,132	29,181	55,608	5,488	97,409	
2004 ¹	116	1,388	94	485	65	817	865	194	1,979	95	6,097	25,692	47,469	3,988	83,255	
2005 ¹	76	367	0	0	0	693	1,069	654	5,732	0	8,592	34,037	30,454	4,235	77,318	

¹ Preliminary

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ESTIMATED REGULAR SEASON ALL-DUCK HARVESTS (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC FLYWAY	U.S.
	68,128	203,226	44,891	189,300	21,582	538,499	266,046	302,901	1,232,477	28,471	2,895,519	1,828,976	7,599,865	3,127,306	15,451,666
2000	91,070	195,556	40,518	207,716	52,781	427,300	219,411	218,400	1,550,722	32,414	3,035,887	1,791,873	7,610,591	2,711,335	15,149,687
2001 ¹	120,211	178,100	37,203	213,800	54,718	493,701	182,400	239,699	1,701,999	35,880	3,257,710	1,670,301	6,617,796	2,363,085	13,908,892
2002 ¹	79,146	221,400	35,564	225,401	75,438	530,599	195,199	250,200	924,398	40,441	2,577,787	1,830,998	5,974,099	2,357,414	12,740,298
2003 ¹	115,363	203,183	46,493	214,581	52,360	496,800	207,505	254,401	703,247	35,704	2,329,636	1,608,385	6,409,163	2,504,383	12,851,567
2004 ¹	93,159	249,127	42,822	158,780	32,326	541,899	346,015	215,300	841,479	39,654	2,560,561	1,407,672	5,473,231	2,720,548	12,162,011
2005 ¹	69,510	145,413	36,399	158,369	27,309	519,402	276,948	179,199	1,158,330	25,892	2,596,771	1,590,886	5,150,355	2,898,543	12,236,555

¹Preliminary

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AGE RATIOS IN THE U.S. HARVEST

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MALLARD AGE RATIOS (IMMATURE/ADULT) IN THE ENTIRE SEASON HARVEST
Derived from the Parts Collection Survey

YR	CO						KS						MT						NE						NM						ND						OK						SD						TX						WY						CEN						FLYWAY						ATL						MISS						FLYWAY						PAC						U.S.					
	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN	FLYWAY	ATL	MISS	FLYWAY	PAC	U.S.																																																																																					
1999	0.69	0.63	0.68	0.81	1.08	1.10	0.47	0.91	0.48	0.42	0.73	0.91	0.89	0.96	0.88	0.88																																																																																						
2000	0.55	0.41	0.44	0.66	0.62	0.86	0.24	0.81	0.47	0.47	0.54	0.92	0.68	1.02	0.74	0.74																																																																																						
2001 ¹	0.66	0.62	0.61	0.71	1.00	1.34	0.39	0.72	0.53	0.47	0.71	1.14	1.33	1.22	1.13	1.13																																																																																						
2002 ¹	0.48	0.51	0.60	0.71	0.89	0.92	0.33	1.04	0.33	0.42	0.95	0.90	1.18	0.88	0.88	0.88																																																																																						
2003 ¹	0.86	0.70	0.83	0.84	1.10	1.44	0.48	1.34	0.42	0.90	0.87	1.26	1.40	1.51	1.29	1.29																																																																																						
2004 ¹	0.70	0.57	0.60	0.55	1.22	1.21	0.56	1.17	0.53	0.59	0.74	1.37	1.03	1.43	1.06	1.06																																																																																						
2005 ¹	0.98	1.07	0.85	1.08	1.95	2.60	0.53	1.98	1.04	0.82	1.26	1.54	1.63	1.98	1.62	1.62																																																																																						

¹Preliminary

FEMALE MALLARD AGE RATIOS (IMMATURE/ADULT) IN THE ENTIRE SEASON HARVEST
Derived from the Parts Collection Survey

YR	CO						KS						MT						NE						NM						ND						OK						SD						TX						WY						CEN						FLYWAY						ATL						MISS						FLYWAY						PAC						U.S.					
	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN	FLYWAY	ATL	MISS	FLYWAY	PAC	U.S.																																																																																					
1999	1.2	1.2	1.0	1.6	1.6	1.5	0.8	1.3	0.8	1.6	1.16	1.36	1.35	1.36	1.33	1.33																																																																																						
2000	1.1	0.7	0.9	1.1	0.8	1.4	0.4	1.4	0.8	0.5	0.92	1.31	1.14	1.66	1.22	1.22																																																																																						
2001 ¹	1.3	2.0	0.8	1.4	1.6	2.0	0.9	1.5	1.1	1.0	1.38	1.82	2.57	1.96	2.11	2.11																																																																																						
2002 ¹	0.9	1.2	0.8	1.5	1.8	1.2	0.7	2.5	0.7	1.0	1.09	1.46	1.62	1.91	1.55	1.55																																																																																						
2003 ¹	1.8	1.7	2.1	1.3	1.8	2.3	1.0	2.6	2.8	1.0	1.67	1.89	2.47	2.48	2.26	2.26																																																																																						
2004 ¹	1.6	1.1	1.2	1.3	2.1	2.0	1.7	2.6	1.0	1.5	1.60	2.11	2.36	2.07	2.07	2.07																																																																																						
2005 ¹	1.8	3.4	1.5	4.6	3.0	3.4	1.4	4.6	2.1	2.7	2.63	2.40	3.13	3.38	3.02	3.02																																																																																						

¹Preliminary

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MALE MALLARD AGE RATIOS (IMMATURE/ADULT) IN THE REGULAR SEASON HARVEST
Derived from the Parts Collection Survey

YR	CO						KS						MT						NE						NM						ND						OK						SD						TX						WY						CEN						FLYWAY						ATL						MISS						FLYWAY						PAC						U.S.					
	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN	FLYWAY	ATL	MISS	FLYWAY	PAC	U.S.																																																																																					
1999 ¹	0.6	0.6	0.6	0.6	0.9	1.0	0.4	0.8	0.4	0.3	0.61	0.74	0.70	0.83	0.72	0.72																																																																																						
2000 ¹	0.4	0.4	0.4	0.6	0.6	0.7	0.2	0.7	0.4	0.5	0.45	0.78	0.54	0.83	0.59	0.59																																																																																						
2001 ¹	0.5	0.6	0.6	0.8	1.2	0.3	0.6	0.4	0.4	0.4	0.57	0.90	1.02	1.00	0.88	0.88																																																																																						
2002 ¹	0.4	0.4	0.5	0.6	0.6	0.8	0.3	0.8	0.2	0.3	0.49	0.77	0.70	0.96	0.70	0.70																																																																																						
2003 ¹	0.7	0.6	0.7	0.8	0.9	1.2	0.4	1.1	0.3	0.7	0.72	1.04	1.11	1.23	1.03	1.03																																																																																						
2004 ¹	0.5	0.5	0.4	1.0	1.0	0.4	1.0	0.4	0.5	0.5	0.59	1.12	0.79	1.20	0.84	0.84																																																																																						
2005 ¹	0.8	0.9	0.7	0.8	1.7	2.3	0.4	1.6	0.8	0.6	1.01	1.25	1.28	1.62	1.29	1.29																																																																																						

¹Preliminary

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NORTHERN PINTAIL AGE RATIOS (IMMATURE/ADULT) IN THE ENTIRE SEASON HARVEST
Derived from the Parts Collection Survey

YR	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC FLYWAY	U.S.
1999	0.88	1.16	1.26	0.97	1.05
2000	0.52	0.57	0.91	0.81	0.77
2001 ¹	0.87	1.04	1.41	0.62	0.93
2002 ¹	1.08	1.32	1.81	0.91	1.25
2003 ¹	1.53	2.29	2.49	0.97	1.54
2004 ¹	1.06	0.76	1.03	0.69	0.89
2005 ¹	1.27	2.07	1.29	1.38	1.38

¹ Preliminary

GADWALL AGE RATIOS (IMMATURE/ADULT) IN THE ENTIRE SEASON HARVEST
Derived from the Parts Collection Survey

YR	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC FLYWAY	U.S.
1999	1.27	1.98	1.25	0.92	1.25
2000	0.56	0.79	0.71	0.92	0.68
2001 ¹	1.00	0.82	1.32	0.78	1.14
2002 ¹	0.82	0.51	0.68	0.99	0.75
2003 ¹	1.62	0.86	1.23	1.41	1.34
2004 ¹	0.92	0.73	0.93	0.96	0.93
2005 ¹	1.17	1.30	1.81	1.78	1.52

¹ Preliminary

AMERICAN WIGEON AGE RATIOS (IMMATURE/ADULT) IN THE ENTIRE SEASON HARVEST
Derived from the Parts Collection Survey

YR	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC FLYWAY	U.S.
1999	0.70	1.08	0.99	0.88	0.88
2000	0.44	0.50	0.59	0.94	0.66
2001 ¹	0.76	1.02	1.17	1.02	0.99
2002 ¹	0.90	0.92	1.32	1.64	1.30
2003 ¹	1.34	0.90	1.31	1.11	1.21
2004 ¹	0.80	0.75	1.30	1.23	1.09
2005 ¹	0.80	0.84	1.85	2.05	1.48

¹ Preliminary

WOOD DUCK AGE RATIOS (IMMATURE/ADULT) IN THE ENTIRE SEASON HARVEST
Derived from the Parts Collection Survey

YR	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC FLYWAY	U.S.
1999	1.05	1.04	1.38	1.24	1.25
2000	0.63	1.22	0.99	2.18	1.04
2001 ¹	1.31	1.20	2.05	1.29	1.60
2002 ¹	1.05	1.15	1.67	1.24	1.43
2003 ¹	1.07	1.59	1.66	1.57	1.58
2004 ¹	1.36	1.28	1.53	2.39	1.47
2005 ¹	1.01	1.27	1.32	2.41	1.32

¹ Preliminary

REDHEAD AGE RATIOS (IMMATURE/ADULT) IN THE ENTIRE SEASON HARVEST
Derived from the Parts Collection Survey

YR	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC FLYWAY	U.S.
1999	1.75	2.24	3.02	0.80	1.93
2000	0.42	0.43	0.72	0.73	0.53
2001 ¹	0.71	0.46	1.97	0.44	0.93
2002 ¹	0.24	0.10	0.21	1.11	0.31
2003 ¹	1.64	0.54	1.58	1.69	1.53
2004 ¹	0.81	0.29	0.80	1.54	0.89
2005 ¹	2.63	2.18	3.15	2.11	2.70

¹ Preliminary

GREATER SCAUP AGE RATIOS (IMMATURE/ADULT) IN THE ENTIRE SEASON HARVEST
Derived from the Parts Collection Survey

YR	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC FLYWAY	U.S.
1999			0.99	1.74	0.46
2000			0.75	1.54	1.27
2001 ¹			1.46	2.27	0.48
2002 ¹	3.41	1.66	2.83	0.97	1.83
2003 ¹			0.98	1.37	0.72
2004 ¹	8.65	2.06	3.05	1.71	2.39
2005 ¹			0.87	2.58	1.06

¹ Preliminary

LESSER SCAUP AGE RATIOS (IMMATURE/ADULT) IN THE ENTIRE SEASON HARVEST
Derived from the Parts Collection Survey

YR	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC FLYWAY	U.S.
1999	0.88	0.26	0.62	1.02	0.57
2000	0.41	0.33	0.36	1.20	0.42
2001 ¹	1.04	0.67	0.60	1.65	0.75
2002 ¹	1.33	0.46	0.86	1.60	0.88
2003 ¹	0.95	0.77	1.33	1.58	1.16
2004 ¹	1.16	0.37	0.89	1.74	0.92
2005 ¹	0.54	0.50	0.57	2.11	0.63

¹ Preliminary

BLUE-WINGED TEAL AGE RATIOS (IMMATURE/ADULT) IN THE ENTIRE SEASON HARVEST
 Derived from the Parts Collection Survey

YR	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC FLYWAY	U.S.
1999	1.82	1.39	1.95	1.27	1.83
2000	1.76	0.74	1.39	0.96	1.42
2001 ¹	2.27	1.24	2.42	1.20	2.19
2002 ¹	1.94	0.83	2.00	1.09	1.78
2003 ¹	2.69	1.29	1.95	1.50	2.04
2004 ¹	1.57	0.88	1.34	0.87	1.29
2005 ¹	2.28	1.36	2.47	1.41	2.09

¹Preliminary and based on all-season harvest.

GREEN-WINGED TEAL AGE RATIOS (IMMATURE/ADULT) IN THE ENTIRE SEASON HARVEST
 Derived from the Parts Collection Survey

YR	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC FLYWAY	U.S.
1999	1.33	2.37	1.63	1.04	1.47
2000	1.50	1.20	1.07	1.21	1.21
2001 ¹	1.78	1.16	1.98	1.03	1.56
2002 ¹	1.81	1.88	2.16	1.36	1.8
2003 ¹	2.10	1.83	1.91	1.14	1.71
2004 ¹	1.82	1.30	1.07	1.28	1.29
2005 ¹	1.37	1.67	1.96	1.74	1.72

¹Preliminary and based on all-season harvest.

SEX RATIOS IN THE U.S. HARVEST

D.E. SHARP FILE S:\DATABOOK\TITLES\SEXRATIO.123

MALLARD ADULT SEX RATIOS (MALE/FEMALE) IN THE REGULAR SEASON HARVEST
Derived from the Parts Collection Survey

YR																				
	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN	ATL	MISS	PAC	FLYWAY	FLYWAY	FLYWAY	FLYWAY	FLYWAY	U.S.
1999	4.0	7.5	3.8	4.6	2.8	2.6	3.3	3.6	3.1	7.7	3.57	2.70	2.77	2.90	4.27	2.43	3.27	3.25	2.91	2.91
2000	4.6	5.8	6.1	5.4	3.0	4.0	4.8	5.1	3.3	4.3	4.3	4.27	2.43	3.27	3.33	4.74	2.82	3.79	3.22	3.33
2001 ¹	5.2	10.2	3.5	6.3	2.5	3.9	5.8	6.5	3.5	6.1	4.34	2.81	3.36	3.25	4.34	2.83	3.65	3.46	3.78	3.46
2002 ¹	4.1	9.1	4.5	6.3	3.8	3.0	4.5	5.7	3.7	6.3	4.98	2.83	3.65	3.40	5.62	2.75	4.30	3.92	4.31	3.75
2003 ¹	5.3	10.6	7.3	5.5	3.3	3.7	4.7	5.2	4.2	10.0	5.31	3.00	4.17	3.79	5.31	3.00	4.30	3.92	4.31	4.31
2004 ¹	4.8	8.0	5.0	6.6	3.8	3.6	7.7	6.7	4.4	10.4	5.62	2.75	4.30	3.92	6.2	3.7	4.30	3.92	4.31	4.31
2005 ¹	4.4	12.9	5.3	13.1	3.1	3.2	6.2	6.8	3.7	9.1	5.31	3.00	4.17	3.79	5.31	3.00	4.30	3.92	4.31	4.31

¹ Preliminary

D.E. SHARP FILE: S:\CFC_D\projects\DATABOOK\GRO 07/27/06

MALLARD IMMATURE SEX RATIOS (MALE/FEMALE) IN THE REGULAR SEASON HARVEST
Derived from the Parts Collection Survey

YR																				
	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN	ATL	MISS	PAC	FLYWAY	FLYWAY	FLYWAY	FLYWAY	FLYWAY	U.S.
1999 ¹	1.9	3.6	2.3	1.9	1.5	1.7	1.6	2.2	1.5	1.4	1.87	1.48	1.46	1.78	1.98	1.41	1.53	1.66	1.58	1.58
2000 ¹	1.8	3.2	2.5	2.8	2.1	2.2	2.5	1.5	3.9	2.10	1.40	1.54	1.60	1.60	1.40	1.54	1.60	1.61	1.60	
2001 ¹	2.3	2.6	2.4	2.5	1.3	2.2	1.9	2.6	1.2	2.3	1.99	1.51	1.46	1.65	2.22	1.57	1.67	1.73	1.58	1.58
2002 ¹	1.7	3.5	3.0	2.6	1.4	2.1	1.7	2.0	1.4	2.1	2.22	1.57	1.67	1.73	2.14	1.48	1.64	2.03	1.77	1.74
2003 ¹	2.1	3.8	2.6	3.4	1.7	2.0	1.7	2.4	1.2	2.8	2.22	1.57	1.67	1.73	2.14	1.48	1.64	2.03	1.77	1.74
2004 ¹	1.7	3.7	2.0	2.3	1.8	1.9	2.6	1.8	4.1	2.14	2.12	1.57	1.75	1.85	2.12	1.57	1.75	1.85	1.80	1.80
2005 ¹	2.0	3.4	2.6	2.6	1.8	2.3	1.8	2.4	1.4	2.2	2.12	1.57	1.75	1.85	2.12	1.57	1.75	1.85	1.80	1.80

¹ Preliminary

D.E. SHARP FILE: S:\CFC_D\projects\DATABOOK\GRO 07/27/06

DUCK HARVESTS IN CANADA

D.E. SHARP S:\WKFILES\DATA\BOOK\AGERATIO.123

ESTIMATES OF MALLARD HARVESTS IN CANADA

YR	NF	PE	NS	NB	PQ	ON	MB	SK	AB	BC	NT	YT	TOTAL
1968 ¹					41,800	231,700	148,600	191,500	275,000	138,300			1,026,900
1969 ¹	100	200	900	500	38,400	228,900	281,300	386,300	541,800	131,900			1,610,300
1970 ¹			700	1,000	42,200	213,900	310,300	687,200	634,300	133,800			2,023,400
1971 ¹	400	700	800	42,400	223,800	198,000	531,700	568,000	113,700	1,679,500			1,679,500
1972	400	100	800	61,500	254,200	214,500	477,800	557,600	114,800				1,682,500
1973	100	400	1,200	72,300	255,400	137,500	349,100	546,900	106,000				1,470,100
1974	300	200	500	1,300	74,100	257,200	145,000	499,600	714,100	108,600			1,800,900
1975	700	400	900	700	58,200	296,200	154,300	572,100	531,500	122,700	4,700	1,300	1,743,700
1976	700	300	1,500	800	73,700	318,200	205,100	608,700	612,300	116,200	13,800	1,000	1,952,300
1977	1,100	200	2,300	700	83,600	264,900	163,100	392,400	515,600	129,300	10,700	800	1,564,700
1978	800	300	1,200	1,500	62,400	322,400	239,600	396,700	379,600	116,800	6,700	1,300	1,529,300
1979	500	500	800	1,600	68,300	265,600	245,100	422,700	486,500	116,500	2,700	1,900	1,612,700
1980	0	1,000	3,200	1,400	81,300	290,500	210,000	354,600	482,400	103,400	5,000	1,400	1,534,200
1981	2,400	1,400	2,400	2,500	92,800	281,400	174,600	230,200	388,200	115,000	2,400	900	1,294,200
1982	500	400	1,400	1,800	94,800	333,700	150,300	241,100	295,000	91,500	3,100	0	1,213,600
1983	1,100	1,000	4,100	2,500	87,100	297,800	159,800	285,800	363,700	121,600	4,000	900	1,329,400
1984	800	700	2,100	1,600	66,800	283,600	118,100	181,700	304,800	89,900	7,500	1,700	1,059,300
1985	400	1,300	3,200	3,300	97,200	290,500	84,500	158,400	180,900	81,800	5,800	1,200	908,500
1986	2,500	700	3,200	2,500	84,400	265,400	113,500	151,100	182,000	72,200	800	900	879,200
1987	1,100	1,100	4,200	3,200	116,800	319,100	137,000	163,600	215,300	78,300	500	300	1,040,500
1988	0	1,000	2,400	1,600	82,300	233,700	59,800	73,500	138,000	64,000	4,700	400	661,400
1989	1,300	1,000	4,500	2,200	74,000	262,100	68,300	74,800	186,700	57,100	1,600	800	734,400
1990	1,000	900	3,500	3,200	86,500	262,700	56,700	78,800	173,900	60,100	2,000	400	729,700
1991	1,000	1,100	3,800	4,700	77,700	218,300	60,200	70,300	121,000	51,700	100	700	610,600
1992	967	198	6,343	5,260	89,551	196,776	66,189	66,902	95,405	51,405	668	244	580,343
1993	1,063	1,071	5,110	3,585	97,625	197,754	41,191	49,752	80,268	43,430	1,158	547	522,554
1994	830	828	3,172	2,755	103,446	192,356	56,301	87,448	108,951	49,233	1,999	201	607,520
1995	532	751	4,822	5,131	83,307	176,680	74,206	104,296	111,048	40,782	1,509	278	603,342
1996	351	1,024	4,286	4,044	82,201	176,869	91,266	121,608	115,668	42,447	1,326	0	641,090
1997	1,461	417	8,047	5,371	77,594	178,169	107,379	133,017	151,167	55,513	437	126	718,698
1998	1,628	1,011	5,440	7,512	76,320	164,431	104,470	129,461	119,826	52,663	881	276	663,919
1999	1,188	667	6,305	4,866	69,568	131,901	82,639	182,714	105,126	48,002	0	220	633,196
2000	1,511	1,915	5,481	5,999	81,655	162,352	78,201	195,276	107,203	49,272	510	72	689,447
2001	601	1,192	5,721	7,047	79,896	166,629	92,115	107,413	94,699	35,575	643	229	591,760
2002	300	2,176	6,498	6,002	66,533	147,847	77,992	118,857	80,707	37,371	1,702	609	546,594
2003	696	804	4,711	6,511	58,873	138,099	66,403	126,397	73,088	35,384	410	110	511,486
2004	1,985	1,100	5,245	5,228	65,284	132,188	75,970	129,630	78,270	28,516	275	37	523,728
2005	754	1,681	4,544	4,732	72,231	115,284	87,315	144,393	78,798	33,586	688	0	544,006

AVERAGES:

1972-79	575	300	1,150	1,075	69,263	279,263	188,025	464,888	543,013	116,363	7,720	1,260	1,669,525
1980-89	1,010	960	3,070	2,260	87,750	285,780	127,590	191,480	273,700	87,480	3,540	850	1,065,470
1990-99	1,002	797	5,083	4,642	84,381	189,594	74,054	102,430	118,236	49,571	1,008	299	631,096
1972-05	899	848	3,615	3,328	79,408	230,889	117,607	220,005	258,124	74,150	2,849	608	992,026

¹ Estimates for 1968-71 are useful only for distribution of harvest among provinces. They are not comparable with estimates in subsequent years because different survey procedures were used.

D.E. SHARP FILE: S:\CFC\Projects\DATABOOK\HPU\ALLDUCKTOTAL.HIP.)

07/14/06

ESTIMATES OF PINTAIL HARVESTS IN CANADA

YR	NF	PE	NS	NB	PQ	ON	MB	SK	AB	BC	NT	YT	TOTAL
1968 ¹	N/A	N/A	N/A	21,300	N/A	25,800	16,300	51,200	55,500	N/A	N/A	N/A	170,100
1969 ¹	2,200	800	500	1,000	20,500	10,900	21,100	33,800	48,700	23,700	N/A	N/A	163,200
1970 ¹	900	1,300	1,400	1,900	26,600	14,900	30,700	66,400	78,100	36,500	N/A	N/A	258,700
1971 ¹	1,000	700	600	1,500	25,800	10,400	20,300	46,000	71,600	28,400	N/A	N/A	206,300
1972	1,000	400	400	400	16,700	9,700	16,700	29,100	68,900	48,700	N/A	N/A	192,200
1973	2,600	500	1,100	1,000	19,400	10,500	18,300	31,000	94,700	48,900	N/A	N/A	228,000
1974	1,100	1,100	1,300	1,300	21,000	10,800	10,700	51,900	98,700	25,700	N/A	N/A	223,600
1975	900	400	500	800	22,000	9,700	20,400	56,300	82,500	23,200	200	700	217,600
1976	1,300	700	1,000	1,700	29,000	17,300	17,600	34,300	60,800	35,200	2,600	300	201,800
1977	2,400	1,800	1,200	1,000	40,600	14,500	11,600	19,900	71,300	30,400	600	400	195,700
1978	900	800	700	1,400	20,600	13,200	20,700	38,100	23,000	2,200	200	135,500	
1979	1,800	600	500	1,100	15,300	9,100	20,300	29,600	48,300	17,900	1,700	200	146,400
1980	900	500	700	1,300	17,100	13,300	12,700	17,900	43,900	20,900	0	100	129,300
1981	1,100	800	1,000	1,200	17,500	11,600	15,100	2,300	41,000	19,200	100	400	111,300
1982	0	1,600	1,100	1,500	20,300	10,200	14,300	12,700	28,700	14,000	0	0	104,400
1983	2,300	600	700	300	16,300	10,600	11,800	16,800	27,800	13,200	3,700	300	104,400
1984	1,700	1,100	700	900	9,500	35,500	13,200	13,000	32,500	18,700	500	500	127,800
1985	1,600	1,000	1,400	1,800	16,500	15,300	10,900	7,700	23,700	11,500	0	900	92,300
1986	700	600	800	1,700	13,000	9,400	6,700	9,000	9,000	8,800	0	800	60,500
1987	1,100	1,800	600	1,100	11,900	6,300	5,400	8,800	21,200	11,600	0	700	70,500
1988	2,200	1,300	500	800	12,600	8,000	14,000	6,000	15,300	11,000	0	0	71,700
1989	1,300	600	300	1,400	15,300	11,600	7,700	5,100	12,000	8,300	200	0	63,800
1990	4,400	500	700	1,700	19,800	8,300	5,600	10,200	13,600	7,700	600	100	73,200
1991	400	600	900	800	7,600	4,300	4,500	4,600	5,700	4,000	100	100	33,600
1992	0	904	84	473	6,327	4,857	5,214	2,076	6,930	6,521	169	67	33,622
1993	1,133	1,228	911	682	11,113	4,946	5,103	3,263	3,907	4,447	65	0	36,798
1994	946	707	1,093	1,084	10,887	4,526	4,769	7,229	7,252	4,727	0	63	43,283
1995	1,727	454	965	1,240	7,831	4,552	8,974	6,521	7,573	4,476	0	0	44,313
1996	1,246	478	897	1,234	5,043	4,011	10,323	14,477	9,621	5,367	0	0	52,697
1997	785	139	116	493	7,423	5,560	13,248	13,656	13,883	5,422	37	0	60,762
1998	1,026	0	653	757	7,735	6,361	14,347	11,099	11,119	6,462	19	276	59,854
1999	390	1,137	755	1,790	8,956	6,457	9,830	10,610	10,304	5,464	0	0	55,693
2000	470	509	499	581	6,480	5,397	8,766	16,168	13,603	5,825	50	0	58,348
2001	137	0	401	611	4,911	3,709	9,207	7,051	8,732	4,807	19	60	39,645
2002	1,153	78	543	702	5,527	9,910	13,879	13,055	7,640	4,551	0	0	57,038
2003	572	598	228	1,270	6,795	10,422	8,999	8,688	8,205	1,948	234	0	47,959
2004	30	317	129	702	6,394	5,208	12,624	23,803	8,380	2,363	0	0	59,950
2005	256	313	308	536	4,677	3,178	6,653	13,450	10,769	3,675	0	0	43,815
AVERAGES:													
1972-79	1,500	788	838	1,088	23,100	11,850	17,038	33,225	70,413	31,625	1,460	360	192,600
1980-89	1,290	990	780	1,200	15,000	13,180	11,180	9,930	25,510	13,720	450	370	93,600
1990-99	1,205	615	707	1,025	9,272	5,387	8,191	8,373	8,989	5,459	99	61	49,382
1972-05	1,164	711	697	1,040	13,597	9,362	11,475	15,619	28,401	13,763	422	199	96,393

¹ Estimates for 1968-71 are useful only for distribution of harvest among provinces. They are not comparable with estimates in subsequent years because different survey procedures were used

D.E. SHARP FILE: S:\CF-Data\BOOK1\PALLDUCKTOTAL 07/14/06

ESTIMATES OF ALL-DUCK HARVESTS IN CANADA

YR	NF	PE	NS	NB	PQ	ON	MB	SK	AB	BC	NT	YT	NUN	TOTAL
1968 ¹	44,300	19,400	54,800	59,600	333,300	794,000	295,700	292,700	459,100	382,600	N/A	N/A	N/A	2,715,500
1969 ¹	62,700	25,300	50,100	62,900	465,700	928,100	467,300	557,700	778,200	270,100	N/A	N/A	N/A	3,668,100
1970 ¹	66,500	28,900	59,200	61,000	464,900	872,300	518,100	930,500	904,700	283,900	N/A	N/A	N/A	4,190,000
1971 ¹	53,300	30,500	71,100	56,600	454,500	739,000	332,200	690,200	848,000	228,600	N/A	N/A	N/A	3,504,000
1972	56,200	18,200	55,700	51,100	414,900	815,700	386,200	615,100	800,200	260,700	N/A	N/A	N/A	3,444,000
1973	111,500	18,000	117,400	51,900	493,100	752,700	251,900	471,900	831,600	255,400	N/A	N/A	N/A	3,355,400
1974	103,800	31,400	105,500	58,700	569,500	811,500	249,600	699,700	1,014,300	210,900	N/A	N/A	N/A	3,854,900
1975	101,700	28,400	118,000	59,100	467,900	938,300	299,200	807,300	850,700	236,200	9,500	5,000	3,921,300	
1976	98,400	37,400	117,900	68,600	602,900	976,400	352,300	807,800	886,600	231,200	29,200	3,900	4,212,600	
1977	132,900	30,200	134,500	53,800	631,200	913,300	259,400	508,800	781,100	259,600	20,800	3,100	3,728,700	
1978	142,700	30,000	109,500	65,800	529,100	943,200	361,200	527,300	581,700	210,500	18,100	3,000	3,522,100	
1979	122,200	20,900	88,400	49,100	460,400	845,400	383,400	582,700	679,300	204,400	9,400	3,000	3,448,600	
1980	106,000	31,900	124,700	59,900	500,200	912,100	335,100	443,600	688,800	186,300	11,500	3,000	3,403,100	
1981	114,400	26,200	113,600	59,000	507,900	850,100	293,900	273,300	525,600	188,300	5,000	1,500	2,958,800	
1982	111,500	39,600	87,700	60,600	512,500	862,000	280,900	324,100	458,200	163,100	3,100	1,100	2,904,400	
1983	119,500	36,100	117,300	72,900	454,000	888,400	284,400	381,700	515,700	193,500	13,000	3,000	3,079,500	
1984	115,500	35,000	95,600	68,900	439,800	832,800	215,300	258,300	438,500	173,700	11,500	3,200	2,688,100	
1985	110,300	31,100	92,300	69,600	494,900	871,500	174,500	210,900	282,800	145,400	15,500	3,000	2,501,800	
1986	124,300	29,600	99,800	71,000	434,100	821,800	207,800	226,500	273,600	124,300	5,400	2,900	2,421,100	
1987	59,200	28,700	86,100	59,900	468,900	772,400	213,200	207,200	305,300	133,000	4,400	1,500	2,339,800	
1988	83,800	34,300	84,800	63,600	446,900	661,300	126,000	104,800	183,100	115,500	5,100	1,300	1,910,500	
1989	92,700	21,600	120,700	64,400	433,800	682,800	121,000	104,100	254,800	102,300	1,200	800	2,000,200	
1990	91,500	20,100	104,000	70,500	357,400	684,500	111,800	115,900	231,900	96,200	2,100	500	1,985,300	
1991	55,800	28,500	76,700	47,600	618,600	106,700	102,800	164,600	79,800	800	1,100	1,640,400		
1992	63,490	14,995	90,203	52,749	345,468	539,960	119,466	90,093	129,381	80,352	1,237	864	1,527,938	
1993	63,384	21,069	90,346	49,239	385,095	564,701	91,892	76,017	119,744	69,688	1,746	1,319	1,534,240	
1994	78,453	17,530	87,322	51,273	342,454	502,989	113,788	128,611	163,664	76,716	1,999	882	1,565,681	
1995	67,360	27,892	93,199	74,272	298,998	512,934	135,147	149,321	152,792	62,222	2,156	1,392	1,577,685	
1996	56,533	19,257	79,992	56,202	255,647	460,414	168,503	190,133	183,079	72,241	1,988	597	1,544,586	
1997	57,709	21,371	74,203	50,635	261,923	461,372	183,468	204,211	229,746	81,180	1,667	392	1,627,877	
1998	61,367	15,361	82,094	59,803	256,382	425,275	175,742	205,545	207,071	87,429	1,985	1,102	1,542,156	
1999	51,464	19,923	86,556	56,641	270,264	385,577	162,355	233,178	157,613	70,934	1,431	308	1,496,244	
2000	63,617	13,540	69,188	52,476	244,486	367,333	148,147	242,275	160,684	73,409	1,055	460	1,436,784	
2001	50,206	17,815	58,477	41,656	215,780	364,497	168,274	153,503	135,353	55,594	1,021	409	0	1,282,585
2002	50,457	15,651	62,118	43,051	189,473	351,891	155,537	173,087	125,532	58,736	3,344	1,131	0	1,230,008
2003	41,648	14,637	55,788	44,613	177,880	313,728	128,550	185,457	124,369	51,992	1,815	548	710	1,141,735
2004	44,272	9,944	47,771	32,306	171,618	289,678	146,093	195,058	136,064	43,430	1,927	184	0	1,118,345
2005	42,897	12,410	44,881	34,810	182,650	273,663	161,893	225,848	152,716	52,576	2,063	2,293	0	1,188,700
AVERAGES:														
1972-79	108,675	26,813	105,863	57,263	521,125	874,563	314,150	627,575	803,188	233,613	17,400	3,600	3,685,950	
1980-89	103,720	31,410	102,260	64,980	469,300	815,520	225,210	253,450	392,640	152,540	7,570	2,130	2,620,730	
1990-99	64,706	20,600	86,462	56,891	322,993	515,632	136,854	149,581	170,259	77,676	1,711	846	1,604,211	
1972-05	83,728	24,076	90,363	56,639	390,406	654,965	207,128	300,769	379,094	132,553	6,162	1,703	137	2,326,917

¹ Estimates for 1968-71 are useful only for distribution of harvest among provinces. They are not comparable with estimates in subsequent years because different survey procedures were used.

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DUCK HARVESTS IN NORTH AMERICA

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ESTIMATES OF MALLARD HARVESTS IN THE UNITED STATES (Harvest Information Program) AND CANADA

YR	UNITED STATES				CANADA				NORTH AMERICAN TOTAL		
	ATLANTIC FLYWAY	MISSISSIPPI FLYWAY	CENTRAL FLYWAY	PACIFIC FLYWAY	ALASKA	U.S. TOTAL	EASTERN CANADA ²	MB/SK/AB COLUMBIA	BRITISH COLUMBIA	ONT., NU and YT	
1999	444,068	3,136,858	995,528	1,295,088	23,385	5,895,795	214,495	370,479	48,002	220	633,196
2000	522,968	3,272,671	1,035,988	1,218,394	19,085	6,069,184	258,913	380,680	49,272	582	689,447
2001 ¹	467,064	2,768,031	1,157,587	990,996	27,044	5,410,722	261,086	294,227	35,575	872	591,760
2002 ¹	554,703	2,423,134	1,007,034	911,071	19,655	4,915,597	229,356	277,556	37,371	2,311	546,594
2003 ¹	427,301	2,570,485	962,111	1,033,457	24,824	5,018,178	209,694	265,888	35,384	520	511,486
2004 ¹	422,005	2,199,931	969,435	918,681	21,479	4,531,531	211,030	283,870	28,516	312	523,728
2005 ¹	444,305	2,049,383	868,144	1,074,807	30,288	4,466,927	199,226	310,506	33,586	688	544,006
											5,010,933

¹Preliminary

²NF, PE, NS, NB, PQ, and ON

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GOOSE HARVESTS IN NORTH AMERICA

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ESTIMATED REGULAR SEASON SNOW/BLUE GOOSE HARVESTS (Harvest Information Survey)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN	ATL	MISS	PAC	U.S.	CANADA	U.S. + CANADA
	FLYWAY	FLYWAY	FLYWAY	FLYWAY	FLYWAY	FLYWAY	TOTAL	TOTAL									
1999	11,492	11,226	63	32,387	3,082	62,014	4,697	19,266	327,227	242	471,697	54,711	317,268	51,613	895,289	192,517	1,087,806
2000	7,142	8,792	0	10,612	3,932	31,120	7,843	5,999	310,398	114	385,950	72,257	236,451	38,439	733,097	227,228	960,325
2001 ¹	7,883	4,040	106	5,260	8,064	42,874	4,417	13,199	194,589	0	280,432	77,802	229,155	44,572	631,960	146,990	778,950
2002 ¹	9,486	17,523	281	12,243	5,253	20,749	2,209	22,685	96,144	0	186,573	39,295	116,601	46,527	388,996	177,343	566,339
2003 ¹	14,664	16,570	453	4,778	2,327	28,803	1,406	27,920	107,616	325	200,863	36,105	173,559	42,607	453,133	152,455	605,588
2004 ^{1,2}	9,441	14,877	113	7,135	1,017	17,647	2,529	29,926	133,318	198	216,202	31,548	192,256	40,611	480,617	105,433	586,050
2005 ¹	11,110	7,375	54	10,353	2,167	19,163	8,977	22,859	221,375	609	304,040	36,102	248,952	63,779	652,873	110,808	763,681

¹ Preliminary² The 2004 harvest estimate contains Conservation Order harvest, final results**ESTIMATED REGULAR SEASON ROSS'S GOOSE HARVESTS (Harvest Information Survey)**

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN	ATL	MISS	PAC	U.S.	CANADA	U.S. + CANADA
	FLYWAY	TOTAL	TOTAL														
1999	3,997	1,643	0	4,914	1,761	360	361	1,180	49,808	0	64,023	0	10,919	28,318	103,260	22,749	126,009
2000	912	0	191	1,098	1,815	338	941	333	38,895	0	44,523	0	8,298	6,850	59,670	17,895	77,565
2001 ¹	1,802	311	0	631	11,289	3,019	1,157	1,382	35,890	0	55,481	0	19,313	14,834	89,628	20,985	110,613
2002 ¹	999	4,123	94	357	2,289	544	1,105	648	18,189	0	28,348	0	8,833	16,248	53,429	33,956	87,385
2003 ¹	2,122	2,693	0	735	1,138	109	703	603	19,839	0	27,941	0	16,189	16,904	61,034	30,621	91,655
2004 ¹	2,542	2,917	0	1,350	2,373	213	1,167	1,264	34,221	0	46,047	0	4,958	11,070	62,075	22,092	84,167
2005 ¹	1,222	776	0	1,271	1,556	913	2,500	473	44,691	55	53,457	0	4,936	8,026	66,420	14,331	80,751

¹ Preliminary**ESTIMATED HARVESTS OF WHITE-FRONTED GEESE (Harvest Information Survey)**

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN	ATL	MISS	PAC	U.S.	CANADA	U.S. + CANADA
	FLYWAY	FLYWAY	FLYWAY	FLYWAY	FLYWAY	FLYWAY	TOTAL	TOTAL									
1999	0	5,476	316	223	0	899	2,168	983	103,670	0	113,735	0	108,649	32,123	254,508	62,349	316,857
2000	0	11,303	573	549	60	2,481	3,451	2,166	163,970	0	184,553	0	103,913	26,658	315,124	106,738	421,862
2001 ¹	225	4,662	212	631	0	1,932	421	921	82,434	0	91,438	0	108,928	29,783	230,149	93,194	323,343
2002 ¹	83	10,652	188	715	135	272	850	810	63,663	0	77,367	0	108,685	33,265	219,318	50,567	269,885
2003 ¹	1,158	9,735	0	2,205	0	435	2,953	1,607	61,924	0	80,017	0	110,611	26,153	216,781	64,542	281,323
2004 ¹	121	5,688	0	1,543	0	1,914	4,280	1,545	37,072	0	52,163	0	86,266	44,078	182,507	64,613	247,120
2005 ¹	0	970	269	1,998	0	183	1,477	946	108,089	0	113,932	87	92,966	45,451	252,426	74,398	326,824

¹ Preliminary

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ESTIMATED REGULAR SEASON HARVESTS OF CANADA GEESE (Harvest Information Survey)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC FLYWAY	U.S. TOTAL	CANADA TOTAL	U.S. + CANADA
1999	49,715	66,255	19,028	64,775	2,201	110,727	35,773	109,271	72,395	9,194	539,335	137,900	590,100	314,554	1,581,889	565,242	2,147,131
2000	86,921	98,005	34,764	113,441	1,996	66,949	47,966	90,803	125,837	25,499	692,179	150,300	745,000	338,847	1,926,326	612,043	2,538,369
2001 ¹	54,584	71,793	19,221	84,167	1,935	69,666	13,393	94,036	124,492	13,396	546,684	478,104	582,122	274,294	1,881,204	637,016	2,518,220
2002 ¹	60,243	96,211	30,491	60,771	1,212	79,135	20,456	88,470	83,801	15,471	536,262	483,489	605,451	246,740	1,871,942	645,664	2,517,606
2003 ¹	92,037	123,866	37,264	104,141	2,723	82,252	35,398	109,067	62,525	23,083	672,355	476,710	814,580	321,130	2,284,776	670,802	2,955,578
2004 ¹	60,401	80,118	27,277	62,272	1,271	76,927	41,230	74,363	43,489	20,421	487,770	410,800	631,400	298,764	1,828,734	626,801	2,455,535
2005 ¹	67,991	99,178	17,887	97,578	1,444	85,243	27,345	57,822	83,145	18,217	555,852	520,600	586,400	314,006	1,976,858	701,379	2,678,237

¹ Preliminary

ESTIMATED ALL-SEASON HARVESTS OF CANADA GEESE (Harvest Information Survey)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC FLYWAY	U.S. TOTAL	CANADA TOTAL	U.S. + CANADA
1999	49,715	67,355	19,028	64,775	2,201	110,727	35,773	146,071	72,395	9,194	577,235	422,900	839,200	338,654	2,177,989	565,242	2,743,231
2000	86,921	98,905	34,764	113,441	1,996	65,649	49,566	123,303	125,837	25,499	765,879	416,900	1,036,800	358,547	2,578,126	612,043	3,190,169
2001 ¹	54,584	71,793	19,221	84,167	1,935	121,254	15,983	131,226	124,492	13,396	638,052	687,904	858,422	274,294	2,458,672	637,016	3,095,688
2002 ¹	60,243	96,211	30,491	60,771	1,212	112,535	21,756	128,170	83,801	15,471	610,662	716,689	906,351	246,740	2,480,442	645,664	3,126,106
2003 ¹	92,037	123,866	37,264	104,141	2,723	82,252	36,698	154,867	62,525	23,083	761,655	657,910	1,103,880	332,130	2,855,576	670,802	3,526,378
2004 ¹	60,401	80,218	27,277	62,672	1,271	76,927	41,630	96,663	43,489	20,421	552,470	633,289	952,120	305,464	2,443,343	626,801	3,070,144
2005 ¹	67,991	99,178	17,887	100,078	1,444	133,043	29,545	78,822	83,145	18,217	629,352	774,515	928,457	323,406	2,655,730	701,379	3,357,109

¹ Preliminary

ESTIMATED REGULAR SEASON LIGHT (SNOW, BLUE, AND ROSS'S) GOOSE HARVESTS (Harvest Information Survey)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC FLYWAY	U.S. TOTAL	CANADA TOTAL	U.S. + CANADA
1999	15,489	12,869	63	37,301	4,842	62,374	5,059	20,446	377,034	242	535,720	54,711	328,187	79,931	998,549	215,266	1,213,815
2000	8,054	8,792	191	11,710	5,746	31,458	8,784	6,332	349,293	114	430,473	72,257	244,748	45,289	792,767	245,123	1,037,890
2001 ¹	9,685	4,351	106	5,891	19,353	45,893	5,574	14,581	230,479	0	335,913	77,802	248,468	59,405	721,588	167,975	889,563
2002 ¹	10,485	21,646	375	12,600	7,542	21,293	3,314	23,333	114,333	0	214,921	39,295	125,434	62,775	442,425	211,299	653,724
2003 ¹	16,786	19,263	453	5,513	3,465	24,912	2,109	28,523	127,455	325	228,804	36,105	189,748	59,511	514,168	183,076	697,244
2004 ^{1,2}	11,983	17,794	113	8,485	3,390	17,860	3,696	31,191	167,539	198	262,249	31,548	197,214	51,680	542,692	127,525	670,217
2005 ¹	12,332	8,152	54	11,624	3,722	20,075	11,477	23,331	266,065	664	357,497	36,102	253,888	71,805	719,293	125,139	844,432

¹ Preliminary² The 2004 harvest estimate contains Conservation Order harvest, final results

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ESTIMATED TOTAL GOOSE HARVESTS (Harvest Information Survey)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC FLYWAY	U.S. TOTAL	CANADA TOTAL	U.S. + CANADA
1999	65,205	85,700	19,407	102,300	7,043	174,000	43,000	167,500	553,100	9,436	1,226,691	496,099	1,277,500	455,308	3,455,598	843,057	4,298,655
2000	94,974	119,000	35,528	125,700	7,803	139,700	61,800	131,800	639,100	25,613	1,381,018	514,101	1,387,000	433,581	3,715,699	964,505	4,680,204
2001 ¹	64,795	86,400	19,540	101,000	21,287	169,200	24,500	152,100	491,800	13,396	1,144,018	810,598	1,309,400	370,282	3,634,298	993,068	4,627,366
2002 ¹	73,806	137,100	31,054	76,500	10,641	134,100	28,300	152,800	343,000	15,471	1,002,772	793,699	1,233,700	344,728	3,374,398	907,984	4,282,882
2003 ¹	114,998	159,700	37,717	114,678	6,584	149,800	41,900	185,800	299,400	23,408	1,133,984	738,941	1,528,350	422,294	3,823,569	1,006,309	4,829,878
2004 ¹	72,505	103,700	27,391	72,700	4,662	138,200	49,800	129,400	248,100	20,619	867,077	682,430	1,235,600	403,123	3,188,229	883,785	4,077,014
2005 ¹	80,323	108,300	18,211	113,700	5,167	153,300	42,500	103,100	457,300	18,992	1,100,892	841,278	1,275,300	448,476	3,665,946	968,389	4,634,335

¹ Preliminary

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ESTIMATED ALL-SEASON HARVESTS OF SHORT GRASS PRAIRIE CANADA GEESE FOR CENTRAL FLYWAY (Harvest Information Survey)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY
1999	15,864	1,391	3,574	1,233					26,641	1,391	50,093
2000	19,602	314	1,910	7,318	484				333	46,521	2,732
2001 ¹	14,791	932	1,380	6,733	645	42,619	1,572			69,133	
2002 ¹	14,394	2,062	2,251	2,681	269	460	21,437	1,521		44,615	
2003 ¹	29,713	207	2,523	4,165	1,683			603	20,441	2,709	62,044
2004 ¹	19,972	1,754	1,928	170				281	12,833	1,388	38,325
2005 ¹	27,550	776	754	3,088				158	40,533	2,215	75,074

¹ Preliminary

ESTIMATED ALL-SEASON HARVESTS OF TALL GRASS PRAIRIE CANADA GEESE FOR CENTRAL FLYWAY (Harvest Information Survey)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY
1999	11,500	5,584		47,095	11,563	15,924	37,645				129,310
2000	18,839	6,952		31,232	12,862	6,498	52,622				129,005
2001 ¹	13,986	7,985		38,405	6,309	13,967	60,563				141,014
2002 ¹	16,149	3,753		19,298	7,223	16,527	44,824				107,774
2003 ¹	29,412	6,861		22,844	16,872	16,872	17,435				110,286
2004 ¹	11,668	7,713		21,260	19,842	7,305	14,972				82,760
2005 ¹	18,244	23,247		18,433	12,954	5,833	38,454				117,164

¹ Preliminary

ESTIMATED ALL-SEASON HARVESTS OF LARGE CANADA GEESE FOR CENTRAL FLYWAY (Harvest Information Survey)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY
1999	32,102	52,570	15,109	54,500	968	57,700	22,764	128,963	2,896	7,440	375,011
2000	63,819	71,901	31,708	94,956	1,452	69,341	34,507	113,135	9,152	21,400	511,371
2001 ¹	29,582	51,591	15,716	65,438	1,290	72,824	8,622	112,961	9,533	11,071	378,628
2002 ¹	31,283	66,658	22,514	44,412	808	85,979	8,838	104,833	3,898	11,834	381,058
2003 ¹	53,444	88,652	29,921	82,327	792	92,028	11,248	19,840	16,906		525,144
2004 ¹	36,917	64,903	19,807	44,644	1,102	83,871	11,088	83,873	5,703	18,636	370,445
2005 ¹	38,882	75,109	8,351	70,832	1,444	92,345	11,704	68,258	3,118	16,003	386,045

¹ Preliminary

ESTIMATED ALL-SEASON HARVESTS OF UNKNOWN CANADA GEESE FOR CENTRAL FLYWAY (Harvest Information Survey)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY
1999	1,749	3,286	2,529	1,117		5,932	1,446	1,180	5,212	363	22,812
2000	3,495	7,930	1,146	4,208	60	5,074	2,196	3,332	17,541	1,366	46,268
2001 ¹	10,211	5,283	2,124	4,208		10,024	1,052	3,837	11,776	752	49,267
2002 ¹	14,560	11,339	5,722	9,919	135	7,248	5,694	6,805	13,642	2,116	77,179
2003 ¹	8,875	5,593	4,787	10,781	248	9,573	8,577	7,432	4,810	3,468	64,142
2004 ¹	3,510	3,646	5,716	8,485		13,288	10,699	5,198	9,381	397	60,919
2005 ¹	1,555	5,046	8,782	2,906		22,265	4,886	4,572	1,039	51,051	

¹ Preliminary

GOOSE AGE RATIOS IN THE U.S. HARVEST

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CANADA GOOSE AGE RATIOS (IMM/ADULT) IN THE ENTIRE SEASON HARVEST
 Derived from the Parts Collection Survey

YEAR	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC FLYWAY	U.S.
1999	0.55	0.60	0.54	0.67	0.59
2000	0.53	0.41	0.50	0.60	0.49
2001 ¹	0.32	0.32	0.29	0.17	0.29
2002 ¹	0.45	0.40	0.61	0.51	0.49
2003 ¹	0.53	0.56	0.55	0.71	0.56
2004 ¹	0.40	0.46	0.38	0.61	0.43
2005 ¹	0.54	0.62	0.52	0.47	0.54

¹Preliminary

*Years without an age ratio estimate had <50 tails in the sample

²⁷June 06

WHITE-FRONTED GOOSE AGE RATIOS (IMM/ADULT) IN THE ENTIRE SEASON HARVEST
 Derived from the Parts Collection Survey

YEAR	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC FLYWAY	U.S.
1999	0.74		0.86	1.57	0.85
2000	0.57		0.44	0.80	0.54
2001 ¹	0.46		0.66	0.68	0.57
2002 ¹	0.49		0.49	0.32	0.46
2003 ¹	1.27		0.82	0.53	0.92
2004 ¹	0.65		0.44	0.72	0.55
2005 ¹	0.81		0.58	1.16	0.77

¹Preliminary

*Years without an age ratio estimate had <50 tails in the sample

²⁷June 06

SNOW GOOSE (LESSER & GREATER) AGE RATIOS (IMM/ADULT) IN THE ENTIRE SEASON HARVEST
 Derived from the Parts Collection Survey

YEAR	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC FLYWAY	U.S.
1999 ¹	0.47	0.02	0.57	0.69	0.48
2000 ¹	0.34	1.77	0.41	0.39	0.44
2001 ¹	0.54	1.50	0.73	0.31	0.66
2002 ¹	0.33	0.27	0.27	0.37	0.31
2003 ¹	0.46	1.14	0.78	0.87	0.66
2004 ¹	0.19	1.02	0.22	0.51	0.26
2005 ¹	0.45	0.73	0.42	1.39	0.64

¹Preliminary

*Years without an age ratio estimate had <50 tails in the sample

²⁷June 06

WATERFOWL POPULATION SURVEYS

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RESULTS OF 2006 WINTER GOOSE SURVEYS IN THE CENTRAL FLYWAY

January 2006 Mid-winter Waterfowl Survey

State	CANADA GEESE						LIGHT GEESE			TOTAL	
	Hi-Line	SGP	TGP	EPP	WP/GP	RMP	Unclass.	Total	W-CF	M-C	
Montana	37,570	3,020						40,590			40,590
No. Dakota								92,623			92,623
So. Dakota		910	1,750	2,160	62,950			67,770			67,770
Wyoming	56,184	7,660						70,727			70,727
Nebraska	2,521	6,492	39,229		216,054			264,296			332,944
Colorado	143,060	89,907						232,967			259,611
Kansas		2,820	202,905					275,983			627,350
N. Mexico	7,930	17,504						1,949	27,383		73,022
Oklahoma			129,009					143,020			170,008
Texas		106,424	126,908					233,332			967,234

*In TX, SGP based on cruise surveys, TGP cruise/transect. Traditional Mid Dec. coastal cruise count completed for MC Light/WFG geese.

Central Flyway Goose Population Survey Results²

Year	CANADA GEESE						LIGHT GEESE			TOTAL	
	Hi-Line	SGP	TGP	EPP	WP/GP	RMP	Unclass.	Total	W-CF	M-C	
2006	247,265	234,737	499,801	2,160	444,410	6,883	13,435	1,448,691	140,587	808,508	304,093
2005	207,401	177,195	400,766	50,000	415,131	15,849	5,175	1,271,517	142,974	877,917	147,783
2004	215,586	203,586	458,680	26,000	622,100	13,228	69,595	1,608,775	135,373	726,999	79,389
2003	205,939	156,661	611,842	40,500	561,049	5,119	24,907	1,606,017	105,899	826,982	213,343
2002	217,145	160,873	504,708	8,100	710,260	7,396	16,873	1,625,355	99,874	675,454	260,849
2001	257,929	164,084	149,090	900	677,729	13,327	18,329	1,281,388	105,754	751,928	141,189
2000	270,730	199,493	295,540	13,050	599,292	9,801	11,860	1,399,766	137,535	1,057,042	145,219
1999	119,460	403,197	548,206	45,000	467,137	5,298	52,554	1,640,852	236,365	1,114,384	200,391
1997-98	190,985	339,552	331,863	1,200	482,290	44,947	1,390,837	103,522	1,058,685	356,531	2,909,575
1996-97	148,527	406,838	262,864	0	453,358	39,505	1,311,092	127,172	1,208,006	215,254	2,862,124
1995-96	167,524	414,829	263,996	20,800	403,318	66,445	1,336,912	93,054	835,965	154,519	2,420,050
1994-95	173,752	481,951	244,988	27,500	352,495	35,520	1,316,206	146,386	1,203,360	194,845	2,860,797
1993-94	164,334	312,855	224,200	1,800	272,487	41,916	1,017,592	84,874	1,015,169	188,878	2,306,513
1992-93	117,294	270,495	235,328	26,600	318,029	60,622	1,028,368	45,145	895,551	158,625	2,128,089
1991-92	136,950	558,756	276,329	0	305,861	47,624	1,325,520	87,885	908,373	85,881	2,407,659
1990-91	116,643	512,162	305,117	13,500	328,710	372,398	1,648,530	104,624	799,880	155,211	2,708,245
1989-90	101,840	375,283	136,091	11,000	216,034	329,779	1,170,027	38,686	661,302	90,830	1,960,845
1988-89	99,934	284,168	215,799	0	245,891	375,874	1,221,666	67,637	598,132	103,073	1,990,508
1987-88	65,512	147,322	306,735	0	272,050	224,470	1,016,089	46,217	735,922	90,626	1,888,854
1986-87	117,409	193,318	159,007	0	174,355	382,332	1,026,421	63,545	900,437	194,530	2,184,933
1985-86	68,792	180,824	189,360	0	36,534	307,919	783,429	96,591	837,611	92,727	1,810,358
1984-85	76,111	179,120	197,240	0	160,640	173,394	786,505	62,905	980,220	155,705	1,985,335
1983-84	39,779	143,382	260,650	0	91,450	51,775	587,036	43,038	905,538	140,697	1,676,309

¹ Mid-December Goose Surveys were discontinued after December, 1997.

² Yearly totals from 1983-84 to 1997-98 reflect Mid-December counts (when available) for TGP, EPP, and WP/GP Canada geese, W-CF and M-C light geese, and W-F geese; totals for Hi-line and SGP populations reflect Mid-winter Survey data. Counts from these time periods were designated as official counts by respective Management Plans.

D.E. SHARP S/C/F_D1EXCEL/MWSGOOSESURVEY/GSESUM2006.xls

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**MID-CONTINENT GREATER WHITE-FRONTED GOOSE POPULATION STATUS, OBJECTIVES,
AND REGULATORY THRESHOLDS**

YEAR	FALL SURVEY ¹	WINTER SURVEY ²			
		MISSISSIPPI FLYWAY	CENTRAL FLYWAY	MEXICO	TOTAL
1969/70		50,600	22,070	18,800	91,470
1970/71		39,300	21,144		60,444
1971/72		45,800	32,142		77,942
1972/73		43,000	29,665		72,665
1973/74		43,200	49,463		92,663
1974/75		40,400	39,510	46,100	126,010
1975/76		53,400	54,800		108,200
1976/77		50,400	29,575	23,300	103,275
1977/78		53,100	140,605	43,900	237,605
1978/79		49,300	69,005	59,700	178,005
1979/80		59,000	99,450	56,500	214,950
1980/81		67,500	110,950	34,400	212,850
1981/82		65,600	155,850	49,200	270,650
1982/83		62,000	110,898		172,898
1983/84		70,300	140,697		210,997
1984/85		81,300	155,705	38,470	275,475
1985/86		78,600	92,700		171,300
1986/87		71,500	194,525		266,025
1987/88		76,700	90,673	28,325	195,698
1988/89		116,500	103,073		219,573
1989/90		103,300	90,830		194,130
1990/91		135,700	155,211	33,870	324,781
1991/92		172,900	85,881		258,781
1992/93	622,948	99,240	158,625		257,865
1993/94	676,344	154,340	188,878	23,375	366,593
1994/95	727,295	134,421	194,845		329,266
1995/96	1,129,378	145,075	154,519		299,594
1996/97	742,506	106,570	215,254	14,837	336,661
1997/98	622,206	195,593	356,531		552,124
1998/99	1,058,256	118,945	200,391		319,336
1999/00	963,090	92,274	145,219	37,334	274,827
2000/01	1,067,605	104,487	141,189		245,676
2001/02 ³	712,309	119,987	260,849		380,836
2002/03	680,200	113,844	213,343	8,321	335,508
2003/04	528,200	161,159	79,389		240,548
2004/05	644,300	137,006	147,783		284,789
2005/06	522,812	158,475	304,093	7,586	470,154
3-YEAR AVERAGES:					1,431,996
1984/85 - 86/87		77,133	147,643	38,470	263,247
1985/86 - 87/88		75,600	125,966	28,325	229,891
1986/87 - 88/89		88,233	129,424	28,325	245,982
1987/88 - 89/90		98,833	94,859	28,325	222,017
1988/89 - 90/91		118,500	116,371	33,870	268,741
1989/90 - 91/92		137,300	110,641	33,870	281,811
1990/91 - 92/93		135,947	133,239	33,870	303,056
1991/92 - 93/94		142,160	144,461	23,375	309,996
1992/93 - 94/95	675,529	129,334	180,783	23,375	333,491
1993/94 - 95/96	844,339	144,612	179,414	23,375	347,401
1994/95 - 96/97	866,393	128,689	188,206	14,837	331,732
1995/96 - 97/98	831,363	149,079	242,101	14,837	406,018
1996/97 - 98/99	807,656	140,369	257,392	14,837	412,598
1997/98 - 99/2000	881,184	135,604	234,047	37,334	382,096
1998/99 - 2000/01	1,029,650	105,235	162,266	37,334	279,946
1999/00 - 2001/02	914,335	105,583	182,419	37,334	300,446
2000/01-2002/03	820,038	112,773	205,127	8,321	320,673
2001/02 - 2003/04	640,236	131,663	184,527	8,321	318,964
2002/03 - 2004/05	617,567	137,336	146,838	8,321	286,948
2003/04 - 2005/06	565,104	152,213	177,088	7,586	331,830
POPULATION OBJECTIVES:					
600,000 (3-yr ave.)					
REGULATORY THRESHOLDS:					
LOWER	500,000				
UPPER	700,000				

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¹ Since 1997, Mid-continent white-fronted geese have been considered one population, officially surveyed during Fall (September) in Saskatchewan and Alberta.

² Surveys in Mexico have been conducted at 3-year intervals since 1981-82. For estimation of 3-year averages after 1980/81-1982/83 we used the most recent Mexico count. Mexico data entries include white-fronts counted in the Interior Highlands (traditional areas) and East Coast Surveys.

In 2003, no survey conducted on East Coast. In 2006, data from East Coast was not available at time of printing. Column entries reflect official December surveys (when available) from 1969/70 to 1997/98.

Subsequent entries reflect January surveys.

³ In TX, traditional Mid Dec. cruise count not completed, WFG geese based on transect in Jan.

CENTRAL FLYWAY CANADA GOOSE POPULATION STATUS, OBJECTIVES, AND REGULATORY THRESHOLD

YR	TALL GRASS PRAIRIE				SHORT GRA SS PRAIRIE ²	HI-LINE ²	WESTERN PRAIRIE/ GR. PLAINS ¹	EASTERN PRAIRIE		
	C. FLYWAY ¹	M. FLYWAY ¹	MEXICO ^{2,4}	TOTAL				C. FLYWAY ¹	M. FLYWAY ¹	TOTAL
1969/70					151,200	44,200		106,600	106,600	
1970/71	131,100	2,100		133,200	148,500	40,500		126,300	126,300	
1971/72	159,600	1,300		160,900	160,900	31,400		157,400	157,400	
1972/73	147,200	1,200		148,400	259,400	35,600		181,400	181,400	
1973/74	158,500	2,000		160,500	153,600	24,500		205,800	205,800	
1974/75	125,600	2,000	5,900	133,500	123,700	41,200		197,100	197,100	
1975/76	201,500	2,000	200	203,700	242,500	55,600		204,400	204,400	
1976/77	167,900	1,900	1,500	171,300	210,000	67,600		254,200	254,200	
1977/78	211,300	3,100	1,100	215,500	134,000	65,100		270,200	270,200	
1978/79	180,500	4,900	2,200	187,600	163,700	33,800		207,200	207,200	
1979/80	155,200	5,700	5,000	165,900	213,000	67,300		171,800	171,800	
1980/81	244,900	3,500	9,300	257,700	168,200	94,400		150,900	150,900	
1981/82	268,600	12,000	4,100	284,700	156,000	81,900	175,000	145,300	145,300	
1982/83	165,500	6,300		171,800	173,200	75,900	242,000	210,400	210,400	
1983/84	260,700	4,200		264,900	143,500	39,500	150,000	162,700	162,700	
1984/85	197,300	8,100	1,600	207,000	179,100	76,400	230,000	167,600	167,600	
1985/86	189,400	8,800		198,200	181,000	69,800	115,000	169,000	169,000	
1986/87	159,000	4,200		163,200	190,900	98,100	324,000	182,700	182,700	
1987/88	306,100	8,300	1,400	315,800	139,100	66,800	272,100	228,400	228,400	
1988/89	213,000	11,200		224,200	284,800	100,100	330,300	184,500	184,500	
1989/90	146,500	12,515		159,015	378,100	105,900	271,000	324,900	324,900	
1990/91	305,100	10,237	200	315,537	508,500	116,600	390,000	218,400	218,400	
1991/92	276,300	4,065		280,365	620,200	140,500	341,900	(51,000)	189,352	189,400
1992/93	235,328	3,398		238,726	328,194	118,459	318,029	26,600	146,369	172,969
1993/94	224,200	12,555	0	236,755	434,113	164,334	272,487	1,800	116,218	118,018
1994/95	244,988	2,819		247,807	697,781	174,394	352,495	27,500	233,773	261,273
1995/96	263,996	6,314		270,310	559,940	167,524	403,318	20,800	255,700	276,500
1996/97	262,864	9,424	0	272,288	460,721	148,527	453,358	0	67,255	67,255
1997/98	331,813	3,438		335,251	440,570	190,985	482,290	5,000	119,564	124,564
1998/99 ³	548,206	NA	NA	403,197	119,460	467,162	45,000	NA	NA	NA
2000	295,662	NA	0	200,021	270,730	594,692	17,650	NA	NA	NA
2001	149,090	NA		164,084	257,929	682,738	900	NA	NA	NA
2002 ⁵	504,708	NA		160,873	217,145	710,260	8,100	NA	NA	NA
2003 ⁵	611,842	NA	NA	156,661	205,939	561,049	40,500	NA	NA	NA
2004 ⁵	458,680	NA	NA	203,586	215,586	622,100	26,000	NA	NA	NA
2005 ⁵	400,766	NA	NA	177,195	207,401	415,131	50,000	NA	NA	NA
2006 ⁵	499,801	NA	NA	234,737	247,265	444,410	2,160	NA	NA	NA
3-YEAR AVERAGES:										
1978/79 - 80/81	193,533	4,700	5,500	203,733	181,633	65,167		176,633	176,633	
1979/80 - 81/82	222,900	7,067	6,133	236,100	179,067	81,200	175,000		156,000	156,000
1980/81 - 82/83	226,333	7,267	4,100	237,700	165,800	84,067	208,500		168,867	168,867
1981/82 - 83/84	231,600	7,500	4,100	243,200	157,567	65,767	189,000		172,800	172,800
1982/83 - 84/85	207,833	6,200	1,600	215,633	165,267	63,933	207,333		180,233	180,233
1983/84 - 85/86	215,800	7,033	1,600	224,433	167,867	61,900	165,000		166,433	166,433
1984/85 - 86/87	181,900	7,033	1,600	190,533	183,667	81,433	223,000		173,100	173,100
1985/86 - 87/88	218,167	7,100	1,400	226,667	170,333	78,233	237,033		193,367	193,367
1986/87 - 88/89	226,033	7,900	1,400	235,333	204,933	88,333	308,800		198,533	198,533
1987/88 - 89/90	221,867	10,672	1,400	233,938	267,333	90,933	291,133		245,933	245,933
1988/89 - 90/91	221,533	11,317	200	233,051	390,467	107,533	330,433		242,600	242,600
1989/90 - 91/92	242,633	8,939	200	251,772	502,267	121,000	334,300		244,217	244,233
1990/91 - 92/93	272,243	5,900	200	278,343	485,631	125,186	349,976	26,600	184,707	193,590
1991/92 - 93/94	245,276	6,673	0	251,949	460,836	141,098	310,805	14,200	150,646	160,129
1992/93 - 94/95	234,839	6,257	0	241,096	486,696	152,396	314,337	18,633	165,453	184,087
1993/94 - 95/96	244,395	7,229	0	251,624	563,945	168,751	342,767	16,700	201,897	218,597
1994/95 - 96/97	257,283	6,186	0	263,468	572,814	163,482	403,057	16,100	185,576	201,676
1995/96 - 97/98	286,224	6,392	0	292,616	487,077	169,012	446,322	8,600	147,506	156,106
1996/97 - 98/99	380,961	NA	0	NA	434,829	152,991	467,603	16,667	NA	NA
1997/98 - 2000	391,894	NA	0	NA	347,929	193,725	514,715	22,550	NA	NA
1998/99 - 2001	330,986	NA	0	NA	255,767	216,040	581,531	21,183	NA	NA
2000 - 2002	316,487	NA	0	NA	174,993	248,601	662,563	8,883	NA	NA
2001 - 2003	421,880	NA	0	NA	160,539	227,004	651,349	16,500	NA	NA
2002-2004	525,077	NA	0	NA	173,707	212,890	631,136	24,867	NA	NA
2003-2005	490,429	NA	0	NA	179,147	209,642	532,760	38,833	NA	NA
2004-2006	453,082	NA	0	NA	205,173	223,417	493,880	26,053	NA	NA
POPULATION OBJECTIVES:										
				250,000	150,000	80,000	17,000 pr(WP) 25,000 pr(GP)		300,000	
REGULATORY THRESHOLDS:										
	LOWER			200,000	150,000		150,000		260,000	
	UPPER			250,000	200,000		285,000		340,000	

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¹ Column entries reflect official December surveys (when available) from 1969/70 to 1997/98. December surveys and the separation of MF wintering Canada geese into populations were discontinued after December 1997. Subsequent entries reflect January surveys.

² Column entries reflect January counts (when available) which are the official counts for these populations or population segments.

³ Beginning in 1998/99, estimates of TGP and SGP Canada geese are based on newly defined wintering range boundaries.

⁴ Surveys in Mexico have been conducted at 3-year intervals since 1981-82. For estimation of 3-year averages after 1980/81-1982/83, we used the most recent Mexico count. Estimates of TGP geese in this column include only geese counted on the East Coast survey (not counted in 2003).

⁵ In TX, SGP based on cruise surveys, TGP cruise/transact.

CENTRAL FLYWAY SNOW/ROSS'S GOOSE POPULATION STATUS¹, OBJECTIVES, AND REGULATORY THRESHOLDS

R	WESTERN CENTRAL FLYWAY			MID-CONTINENT POPULATION		
	U.S.	MEXICO ²	TOTAL	FLYWAY	FLYWAY	TOTAL
1969/70	6,925	34,831	41,756	352,390	424,625	777,015
1970/71	11,140			415,254	654,900	1,070,154
1971/72	13,011			376,094	937,300	1,313,394
1972/73	11,579			492,965	532,300	1,025,265
1973/74	16,200			657,507	532,300	1,189,807
1974/75	26,420	26,472	52,892	655,080	441,500	1,096,580
1975/76	23,164			870,730	691,625	1,562,355
1976/77	33,640	51,345	84,985	578,940	571,350	1,150,290
1977/78	31,050	53,695	84,745	1,172,252	794,125	1,966,377
1978/79	28,161	59,060	87,221	772,623	513,050	1,285,673
1979/80	30,450	65,270	95,720	803,801	594,275	1,398,076
1980/81	37,551	44,855	82,406	902,013	504,650	1,406,663
1981/82	50,005	107,630	157,635	925,705	868,350	1,794,055
1982/83	76,134			923,306	832,125	1,755,431
1983/84	60,068			905,541	589,000	1,494,541
1984/85	63,005	83,605	146,610	980,220	992,825	1,973,045
1985/86	96,613			837,589	611,750	1,449,339
1986/87	87,649			900,487	1,013,375	1,913,862
1987/88	46,217	92,025	138,242	735,922	1,014,775	1,750,697
1988/89	67,637			598,132	1,358,100	1,956,232
1989/90	38,686			661,302	1,062,982	1,724,284
1990/91	104,624	77,905	182,529	799,880	1,335,870	2,135,800
1991/92	87,885			908,373	1,113,491	2,021,864
1992/93	45,142			895,951	848,131	1,744,082
1993/94	84,874	169,460	254,334	1,015,169	1,185,646	2,200,815
1994/95	146,386			1,203,360	1,521,732	2,725,092
1995/96	93,054			835,565	1,562,513	2,398,078
1996/97	127,172	88,910	216,082	1,208,606	1,642,287	2,850,893
1997/98	103,522			1,058,685	1,918,543	2,977,228
1998/99 ¹	236,365			1,114,384	1,461,342	2,575,726
2000	137,535	118,445	255,980	1,057,042	1,340,277	2,397,319
2001	105,754			751,927	1,589,344	2,341,271
2002 ³	99,874			675,454	2,020,687	2,696,141
2003	105,899	61,519	167,418	826,982	1,608,046	2,435,028
2004	135,373			726,999	1,431,996	2,158,995
2005	142,974			877,917	1,466,284	2,344,201
2006 ⁴	140,587	87,170	227,757	808,508	1,413,155	2,221,663
3-YEAR AVERAGES:						
1979/80 - 81/82	39,335	72,585	111,920	877,173	655,758	1,532,931
1980/81 - 82/83	54,563	76,243	130,806	917,008	735,042	1,652,050
1981/82 - 83/84	62,069	107,630	169,699	918,184	763,158	1,681,342
1982/83 - 84/85	66,402	83,605	150,007	936,356	804,650	1,741,006
1983/84 - 85/86	73,229	83,605	156,834	907,783	731,192	1,638,975
1984/85 - 86/87	82,422	83,605	166,027	906,099	872,650	1,778,749
1985/86 - 87/88	76,826	92,025	168,851	824,666	879,967	1,704,633
1986/87 - 88/89	67,168	92,025	159,193	744,847	1,128,750	1,873,597
1987/88 - 89/90	50,847	92,025	142,872	665,119	1,145,286	1,810,404
1988/89 - 90/91	70,316	77,905	148,221	686,438	1,252,317	1,938,772
1989/90 - 91/92	77,065	77,905	154,970	789,852	1,170,781	1,960,649
1990/91 - 92/93	79,217	77,905	157,122	789,852	1,170,781	1,967,249
1991/92 - 93/94	72,634	169,460	242,094	939,831	1,049,089	1,988,920
1992/93 - 94/95	92,134	169,460	261,594	1,038,160	1,185,170	2,223,330
1993/94 - 95/96	108,105	169,460	277,565	1,018,031	1,423,297	2,441,328
1994/95 - 96/97	122,204	88,910	211,114	1,082,510	1,575,511	2,658,021
1995/96 - 97/98	107,916	88,910	196,826	1,034,285	1,707,781	2,742,066
1996/97 - 98/99	155,686	88,910	244,596	1,127,225	1,674,057	2,801,282
1997/98 - 2000	159,141	118,445	277,586	1,076,704	1,573,387	2,650,091
1998/99 - 2001	159,885	118,445	278,330	974,451	1,463,654	2,438,105
1999/00 - 2002	114,388	118,445	232,833	828,141	1,650,103	2,478,244
2001 - 2003	103,842	61,519	165,361	751,454	1,739,359	2,490,813
2002-2004	113,715	61,519	175,234	743,145	1,686,910	2,430,055
2003-2005	128,082	61,519	189,601	810,633	1,502,109	2,312,741
2004-2006	139,645	87,170	226,815	804,475	1,437,145	2,241,620
POPULATION OBJECTIVES:						
	110,000			1,000,000 - 1,500,000		
REGULATORY THRESHOLDS:						
				1,000,000 - 1,500,000		

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07/14/06

¹ From 1969/70 to 1997/98 light geese were surveyed in Mid-December except in Mexico (January). After 1997, Mid-December surveys were discontinued and all subsequent surveys were conducted in January.

² Surveys in Mexico have been conducted at 3-year intervals since 1981-82. For estimation of 3-year averages after 1980/81-1982/83, we used the most recent Mexico count. Estimates of WCF geese in this column include only those geese counted in traditional survey areas within the Interior Highlands.

³*In 2002, traditional Mid Dec. cruise count not completed in TX. Light goose estimate based on transect in Jan.

⁴ Mississippi changed to a transect survey in Zone 1, only counted mallards and unidentified ducks.

JANUARY 2006 MID-WINTER WATERFOWL SURVEY - CENTRAL FLYWAY

SPECIES	ND	MT	SD	WY	CO	NE	KS	OK	NM	TX	TOTAL
Mallard	5,084	8,700	46,016	59,963	122,581	277,888	199,824	152,774	30,202	793,776	1,696,808
Black Duck											0
Mottled Duck											18,396
Gadwall	1		30	1,023	2,501	2	2,585	6,430	913	842,898	856,352
Wigeon				1,205	2,604	6	6,931	261	4,245	215,010	230,293
G-W Teal				1,084	1,013	20	986	7,174	12,846	488,090	511,213
BW/CIN Teal					37		25		1	55,553	55,616
Shoveler										130,219	122,386
Pintail										830,578	857,151
Wood Duck										11,758	12,320
Whistling Duck										0	0
Total Dabblers	5,085	8,700	46,081	63,571	132,179	278,593	211,758	175,966	67,990	3,378,445	4,368,368
Redhead										456,308	459,592
Canvasback										16,562	17,324
Scaup										88,419	90,890
Ringneck										78,281	81,773
Goldeneye	95	3,380	2,462	6,792	1,167	858	1,931	51		622	18,088
Bufflehead	6		37	171	409	66	366	227	647	23,305	25,234
Ruddy Duck						2	8	100	75	69	254
Total Divers	101	3,380	2,532	7,213	2,605	1,931	4,833	2,521	4,473	663,566	693,155
Scoters										0	0
Oidsquaw										86,992	86,992
Mergansers	85	50	705	1,971	2,135	34,832	14,313	17,081	6,801	9,019	30,330
Unident. Ducks			22		24,089	8,705	355	259		63,760	63,760
Total Ducks	5,271	12,130	49,340	72,755	161,008	315,356	239,609	195,923	79,523	4,081,360	5,212,275
Brant											0
Snow/Blue Goose										940,478	940,478
Ross's Goose										8,617	8,617
Whitefront										304,093	304,093
Canada Goose	92,623	40,590	67,770	70,727	232,967	264,296	275,983	143,020	27,383	233,332	1,448,691
Total Geese	92,623	40,590	67,770	70,727	259,611	332,944	627,350	170,008	73,022	967,234	2,701,879
Tundra Swan										26	26
Trumpeter Swan										614	614
Mute Swan										0	0
Unident. Swans										10	10
Total Swans	0	0	123	17	8	460	6	14	6	6	650
Coot	450	50	387	409			653	3,301	6,564	279,060	290,874
Grand Total	97,894	53,170	117,283	143,886	421,036	648,760	867,618	369,246	159,125	5,327,660	8,205,678

*In TX, SGP based on cruise surveys, TGP cruise/transect. Traditional Mid Dec. coastal cruise count completed for MC Light/WFG geese, Jan count in High and Rolling Plains also included in Light/WFG count but transect numbers in the other survey zones not included (used actual counts).

06/13/06

SPECIES	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2000-09 AVG
Mallard	1,798,494	1,866,170	1,877,544	1,825,639	1,183,436	1,425,943	1,696,808	1,667,719	1,667,719	1,667,719	5
Black Duck	11	0	0	10	4	13	0	0	0	0	24,152
Mottled Duck	30,639	15,035	25,076	24,797	23,734	31,389	18,396	696,649	696,649	696,649	696,649
Gadwall	762,360	561,275	532,403	588,194	971,407	604,554	856,352	321,416	321,416	321,416	321,416
Wigeon	421,453	180,825	286,363	450,146	326,325	354,509	230,293	373,650	373,650	373,650	373,650
G-W Teal	576,173	210,864	457,114	187,545	436,981	241,663	511,213	109,301	109,301	109,301	109,301
BW/CIN Teal	2,519	30,862	24,093	149,309	215,398	287,307	55,616	144,719	144,719	144,719	144,719
Shoveler	161,851	152,701	122,979	173,302	169,739	102,244	130,219	571,535	571,535	571,535	571,535
Pintail	374,407	327,797	492,311	713,071	664,003	572,008	857,151	14,874	14,874	14,874	14,874
Wood Duck	13,397	39,505	10,370	7,454	14,274	6,798	12,320	0	0	0	7,794
Whistling Duck	0	0	0	11,719	15,269	27,571	0	0	0	0	3,931,816
Total Dabblers	4,141,304	3,385,034	3,822,253	4,131,186	4,020,570	3,653,999	4,368,368	0	0	0	0
Redhead	115,096	256,224	517,788	359,795	127,814	364,646	459,592	314,422	314,422	314,422	314,422
Canvasback	15,438	22,286	62,756	16,142	6,798	6,557	17,324	21,043	21,043	21,043	21,043
Scaup	144,800	89,889	141,456	327,027	268,811	97,961	90,890	165,833	165,833	165,833	165,833
Ringneck	127,735	98,015	117,639	127,152	156,086	204,323	81,773	130,389	130,389	130,389	130,389
Goldeneye	27,481	36,340	27,775	21,966	33,752	20,432	18,088	26,548	26,548	26,548	26,548
Bufflehead	37,690	44,682	18,750	9,244	8,529	34,938	25,234	25,581	25,581	25,581	25,581
Ruddy Duck	54,570	3,201	2,459	3,258	2,938	2,313	254	9,856	9,856	9,856	9,856
Total Divers	522,810	550,637	888,623	864,584	604,728	731,170	693,155	0	0	0	693,672
Scoter	0	0	0	0	0	0	0	0	0	0	0
Oldsquaw	0	0	2	1	0	0	0	0	0	0	0
Mergansers	190,795	69,329	116,994	96,455	67,835	38,587	86,992	95,284	95,284	95,284	95,284
Unident. Ducks	232,465	85,110	146,930	94,391	100,430	193,824	63,760	130,987	130,987	130,987	130,987
TOTAL DUCKS	5,087,374	4,090,110	4,974,802	5,186,617	4,793,563	4,617,580	5,212,275	0	0	0	4,851,760
Brant	0	0	0	0	1	0	0	0	0	0	0
Snow/Blue Goose	1,186,088	847,996	771,141	920,940	842,559	1,009,894	940,478	931,299	931,299	931,299	931,299
Ross' Goose	8,489	9,685	4,187	11,941	19,813	10,997	8,617	10,533	10,533	10,533	10,533
White-fronted Goose	145,219	141,189	260,849	213,343	79,389	147,783	304,093	184,552	184,552	184,552	184,552
Canada goose	1,400,416	1,286,397	1,625,355	1,606,017	1,608,775	1,271,517	1,448,691	1,463,881	1,463,881	1,463,881	1,463,881
TOTAL GEESE	2,740,212	2,285,267	2,661,532	2,752,241	2,550,537	2,440,191	2,701,879	0	0	0	2,590,266
Tundra Swan	7	15	13	7	22	12	26	15	15	15	15
Trumpeter Swan	395	303	227	395	271	606	614	402	402	402	402
Mute Swan	2	0	0	6	16	2	0	4	4	4	4
Unident. Swans	5	17	25	16	8	14	10	14	14	14	14
TOTAL SWANS	409	335	265	424	317	634	650	0	0	0	433
Coot	218,707	265,066	549,363	346,894	561,937	245,746	290,874	354,084	354,084	354,084	354,084
GRAND TOTAL	8,046,702	6,640,778	8,185,962	8,286,176	7,906,354	7,304,151	8,205,678	0	0	0	7,796,543

CENTRAL FLYWAY MID-WINTER WATERFOWL SURVEY RESULTS, 1990-99

SPECIES	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	1990-99 AVG
Mallard	1,299,805	791,723	1,437,186	591,251	746,749	862,067	919,812	1,328,407	1,902,451	2,558,207	1,243,766
Black Duck	0	5	1	0	6	0	0	1	0	0	1
Mottled Duck	22,300	11,300	45,100	52,700	47,377	41,920	35,863	21,814	24,488	17,892	32,075
Gadwall	136,621	71,072	129,079	116,749	138,305	129,771	152,979	370,233	489,898	554,810	228,952
Wigeon	32,444	27,396	214,920	45,670	55,936	60,856	66,863	81,744	175,581	155,411	91,682
G-W Teal	280,257	81,307	722,935	327,341	156,102	2,205,886	260,638	449,524	381,897	494,256	536,014
BW/CIN Teal	1,112	760	5,065	3,948	3,252	15,949	1,317	6,928	2,784	15,106	5,622
Shoveler	85,945	41,682	54,154	59,683	142,284	77,357	68,113	77,396	83,302	110,886	80,080
Pintail	589,250	97,190	905,320	319,120	431,924	721,753	317,173	505,419	612,712	992,064	549,193
Wood Duck	405	900	2,109	3,038	1,927	10,085	595	16,772	19,444	5,915	6,119
Whistling Duck	100	100	1,500	16,300	735	899	545	1,000	3,510	2,796	2,749
Total Dabblers	2,448,239	1,123,435	3,517,369	1,535,800	1,724,597	4,126,543	1,823,898	2,859,238	3,696,067	4,907,343	2,776,253
Redhead	193,608	213,347	236,326	313,557	231,067	565,268	262,530	296,567	251,866	293,855	285,799
Canvasback	32,934	5,250	17,935	6,746	15,072	57,077	22,676	9,424	14,177	40,470	22,176
Scaup	36,683	12,667	24,737	57,012	92,990	51,886	76,855	55,550	74,713	131,968	61,506
Ringneck	41,304	8,163	45,232	28,936	18,954	13,847	12,068	61,576	186,004	202,481	61,857
Goldeneye	18,217	12,446	18,398	12,839	17,092	24,633	18,055	17,296	17,450	22,464	17,889
Bufflehead	4,839	3,811	7,620	24,688	13,899	12,192	11,029	7,041	16,499	16,665	11,828
Ruddy Duck	2,720	1,369	2,899	14,040	5,558	24,527	5,501	4,190	1,316	3,169	6,529
Total Divers	330,305	257,053	353,147	457,818	394,632	749,430	408,714	451,644	562,025	711,072	467,584
Scooter	2	0	0	0	0	0	0	0	0	0	0
Oldsquaw	1	0	0	0	0	0	0	0	0	0	0
Mergansers	134,073	124,543	131,322	93,361	105,802	65,783	122,796	90,481	66,516	89,148	102,383
Unident. Ducks	438,525	13,937	8,881	17,446	4,293	5,357	18,773	701,689	704,765	407,522	232,119
TOTAL DUCKS	3,351,145	1,518,968	4,010,719	2,104,425	2,229,324	4,947,113	2,374,181	4,103,052	5,029,373	6,115,085	3,578,339
Brant	0	0	0	0	0	0	0	0	0	0	0
Snow/Blue Goose	699,988	904,504	996,258	941,096	1,100,043	1,349,746	928,619	1,330,006	1,162,207	1,344,173	1,075,664
Ross' Goose	90,830	155,211	85,881	158,625	188,878	194,845	154,519	5,772	0	6,576	4,116
White-fronted Goose	1,170,027	1,648,529	1,779,685	1,028,518	1,017,592	1,316,206	1,333,912	1,311,092	1,390,837	200,391	180,097
Canada goose	1,960,845	2,708,244	2,861,824	2,128,239	2,306,513	2,860,797	2,417,050	2,862,124	2,909,575	1,640,852	1,363,725
TOTAL GEESE	1,960,845	2,708,244	2,861,824	2,128,239	2,306,513	2,860,797	2,417,050	2,862,124	2,909,575	3,191,992	2,620,720
Tundra Swan	3	10	1	1	0	32	8	3	9	2	7
Trumpeter Swan	170	203	166	161	252	234	227	177	270	139	200
Mute Swan	0	2	0	0	1	2	0	0	0	0	1
Unident. Swans	0	0	0	12	3	5	0	0	7	26	5
TOTAL SWANS	173	215	167	174	256	273	235	180	286	167	213
Coot	273,221	75,155	127,631	98,390	153,174	289,636	246,531	135,878	658,349	443,535	250,150
GRAND TOTAL	5,585,384	4,302,582	7,000,341	4,331,228	4,689,267	8,097,819	5,037,997	7,101,234	8,597,583	9,750,779	6,449,421

DE: SHARP FILE SITE COUNTS FOR ALL TAXA

CENTRAL FLYWAY MID-WINTER WATERFOWL SURVEY RESULTS IN 2006 RELATED TO PREVIOUS SURVEYS

SPECIES	2006		2005		% Change 2006 from 2005		1990-99 Avg		1948-99 Avg		% Change, 2006 from 48-99 Avg		% Change, 2006 from 80-89 Avg		% Change, 2006 from 70-79 Avg		% Change, 2006 from 60-69 Avg		% Change, 2006 from 48-59 Avg		
	2006	2005	2006 from 2005	2005	% Change 2006 from 2005	1990-99 Avg	% Change 2006 from 90-99 Avg	1948-99 Avg	% Change 2006 from 48-99 Avg	1948-99 Avg	% Change 2006 from 48-99 Avg	% Change 2006 from 80-89 Avg	% Change 2006 from 70-79 Avg	% Change 2006 from 60-69 Avg	% Change 2006 from 48-59 Avg	% Change 2006 from 2006 from 48-59 Avg	% Change 2006 from 2006 from 48-59 Avg	% Change 2006 from 2006 from 48-59 Avg	% Change 2006 from 2006 from 48-59 Avg		
Mallard	1,696,808	1,425,943	19%	1,243,766	36%	1,739,955	-2%	32%	-22%	-10%	-100%	-100%	-100%	-100%	-100%	-100%	-100%	-100%	-100%		
Black Duck	0	13		1	-100%	32,075	-43%	22,231	-17%	-100%	-100%	-47%	-59%	-59%	-59%	-59%	-59%	-59%	-59%		
Mottled Duck	18,396	31,389	-41%	228,952	274%	125,004	151%	131,143	76%	19%	24%	45%	45%	45%	45%	45%	45%	45%	45%		
Gadwall	856,352	604,554	42%	91,682	-35%	536,014	-5%	335,800	52%	52%	52%	52%	52%	52%	52%	52%	52%	52%	52%		
Wigeon	230,293	354,509	-35%	241,663	112%	5,111	988%	5,111	5,111	5,111	5,111	5,111	5,111	5,111	5,111	5,111	5,111	5,111	5,111		
G-W Teal	511,213	287,307	-81%	80,077	27%	80,077	63%	52,525	63%	7605	52,525	52,525	52,525	52,525	52,525	52,525	52,525	52,525	52,525	52,525	
BW/CIN Teal	130,219	102,244	27%	549,193	50%	6,798	81%	6,798	6,798	6,798	6,798	6,798	6,798	6,798	6,798	6,798	6,798	6,798	6,798		
Shoveler	857,151	572,008	50%	549,193	50%	6,798	81%	6,798	6,798	6,798	6,798	6,798	6,798	6,798	6,798	6,798	6,798	6,798	6,798		
Pintail	12,320	27,571	27,571	2,749	-100%	2,749	-100%	2,749	-100%	2,749	-100%	2,749	-100%	2,749	-100%	2,749	-100%	2,749	-100%	2,749	
Wood Duck	0																				
Whistling Duck	Total Dabblers	4,368,368	3,653,999	20%	2,776,250	57%	3,180,365	37%	3,180,365	37%	65%	0%	60%	60%	60%	60%	60%	60%	60%	60%	
Redhead	459,592	364,646	26%	285,799	61%	347,580	32%	99%	55%	55%	49%	49%	49%	49%	49%	49%	49%	49%	49%	49%	
Canvasback	17,324	6,557	164%	22,176	-22%	18,822	-8%	18,822	-8%	18,822	-8%	18,822	-8%	18,822	-8%	18,822	-8%	18,822	-8%	18,822	
Scap	90,890	97,961	-7%	61,506	48%	108,881	-17%	108,881	-17%	108,881	-17%	108,881	-17%	108,881	-17%	108,881	-17%	108,881	-17%	108,881	
Ringneck	81,773	204,323	-60%	61,857	32%	18,410	1%	14,671	23%	14,671	23%	14,671	23%	14,671	23%	14,671	23%	14,671	23%	14,671	
Goldeneye	18,088	20,432	-11%	17,887	1%	11,339	5,519	5,519	35%	5,519	35%	5,519	35%	5,519	35%	5,519	35%	5,519	35%	5,519	
Bufflehead	25,234	34,938	-28%	11,828	-96%	7,030	-96%	7,030	-96%	7,030	-96%	7,030	-96%	7,030	-96%	7,030	-96%	7,030	-96%	7,030	
Ruddy Duck	254	2,313	-89%	6,529	48%	520,913	33%	520,913	33%	520,913	33%	520,913	33%	520,913	33%	520,913	33%	520,913	33%	520,913	
Total Divers	693,155	731,170	-5%	467,582	48%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Scooter	0	0	0	0																	
Oldsquaw	0	0	0	0																	
Mergansers	86,992	38,587	125%	102,382	-15%	84,112	3%	84,112	3%	84,112	3%	84,112	3%	84,112	3%	84,112	3%	84,112	3%	84,112	
Unident. Ducks	63,760	193,824	-67%	232,119	-73%	73,759	-14%	73,759	-14%	73,759	-14%	73,759	-14%	73,759	-14%	73,759	-14%	73,759	-14%	73,759	
TOTAL DUCKS	5,212,275	4,617,580	13%	3,578,333	46%	3,859,149	35%	3,859,149	35%	3,859,149	35%	3,859,149	35%	3,859,149	35%	3,859,149	35%	3,859,149	35%	3,859,149	
Brant	0	0	0	0																	
Show/Blue Goose	940,478	1,009,894	-7%	1,075,864	-13%	655,048	44%	655,048	44%	655,048	44%	655,048	44%	655,048	44%	655,048	44%	655,048	44%	655,048	
Ross' Goose	8,617	10,997	-22%	2,943	241	241	241	241	241	241	241	241	241	241	241	241	241	241	241	241	241
White-fronted Goose	304,093	147,783	106%	180,097	69%	76,939	295%	76,939	295%	76,939	295%	76,939	295%	76,939	295%	76,939	295%	76,939	295%	76,939	
Canada goose	1,448,691	1,271,517	14%	1,359,837	7%	562,288	158%	562,288	158%	562,288	158%	562,288	158%	562,288	158%	562,288	158%	562,288	158%	562,288	
TOTAL GEESE	2,701,879	2,440,191	11%	2,616,356	3%	1,294,516	109%	1,294,516	109%	1,294,516	109%	1,294,516	109%	1,294,516	109%	1,294,516	109%	1,294,516	109%	1,294,516	
Tundra Swan	26	12	117%	7	277%	13	106%	106%	106%	106%	106%	106%	106%	106%	106%	106%	106%	106%	106%	106%	
Trumpeter Swan	614	606	1%	198	210%	159	287%	287%	287%	287%	287%	287%	287%	287%	287%	287%	287%	287%	287%	287%	
Mute Swan	0	2		1	-100%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Unident. Swans	10	14	-29%	3		1		1		1		1		1		1		1		1	
TOTAL SWANS	650	634	3%	209	211%	173	276%	276%	276%	276%	276%	276%	276%	276%	276%	276%	276%	276%	276%	276%	
Coot	290,874	245,746	18%	249,281	17%	210,877	38%	210,877	38%	210,877	38%	210,877	38%	210,877	38%	210,877	38%	210,877	38%	210,877	
GRAND TOTAL	8,205,678	7,304,151	12%	6,444,209	27%	5,364,715	53%	5,364,715	53%	5,364,715	53%	5,364,715	53%	5,364,715	53%	5,364,715	53%	5,364,715	53%	5,364,715	

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06/14/06

BREEDING POPULATION ESTIMATES FOR 10 SPECIES OF DUCKS (Thousands) FROM THE TRADITIONAL SURVEY AREA (strata 1-18, 20-50, 75-77)

YEAR	MAL	GAD	WIG	GWT	BWT	SHO	PIN	RED	CAN	SCP	TOTAL
1955	8,777	652	3,217	1,807	5,305	1,643	9,775	540	589	5,620	37,925
1956	10,453	773	3,145	1,525	4,988	1,781	10,373	699	5,994	40,498	
1957	9,297	667	2,920	1,103	4,300	1,476	6,807	509	626	5,167	33,272
1958	11,234	502	2,552	1,347	5,457	1,384	6,038	457	747	5,350	35,068
1959	9,024	590	3,788	2,653	5,099	1,578	5,873	499	489	7,038	36,631
1960	7,372	784	2,988	1,427	4,293	1,825	5,722	498	606	4,869	30,384
1961	7,330	655	3,048	1,729	3,655	1,383	4,218	323	435	5,380	
1962	5,536	905	1,959	723	3,011	1,269	3,624	508	360	5,286	23,181
1963	6,749	1,055	1,831	1,242	3,724	1,398	3,846	413	506	5,438	26,202
1964	6,064	873	2,590	1,561	4,021	1,718	3,291	599	644	5,132	26,422
1965	5,132	1,260	2,301	1,282	3,595	1,424	3,892	622	522	4,640	24,347
1966	6,732	1,680	2,318	1,617	3,733	2,147	4,812	713	663	4,439	28,854
1967	7,510	1,385	2,326	1,594	4,392	2,315	5,278	736	503	4,928	31,067
1968	7,089	1,949	2,299	1,431	3,463	1,685	3,489	499	564	4,413	
1969	7,532	1,573	2,941	1,491	4,139	2,157	5,904	633	504	5,140	32,014
1970	9,986	1,608	3,470	2,183	4,862	2,230	6,392	599	580	5,663	37,596
1971	9,416	1,606	3,273	1,889	4,610	2,011	5,847	534	451	5,134	34,771
1972	9,266	1,623	3,200	1,949	4,279	1,617	6,979	551	426	7,997	38,736
1973	8,079	1,246	2,878	1,949	3,333	1,619	4,356	501	621	6,257	
1974	6,880	1,592	2,672	1,865	4,976	2,011	6,598	626	513	5,781	33,514
1975	7,727	1,644	2,778	1,665	5,885	1,981	6,598	832	595	6,460	35,467
1976	7,934	1,245	2,505	1,548	4,745	1,748	6,463	666	614	5,819	32,300
1977	7,397	1,299	2,575	1,286	4,463	1,452	3,226	634	664	6,260	29,256
1978	7,425	1,558	3,282	2,174	4,499	1,975	5,108	725	373	5,984	33,103
1979	7,883	1,758	3,107	2,072	4,876	2,407	5,316	638	582	7,658	
1980	7,707	1,393	3,596	2,050	4,895	1,908	4,508	728	735	6,382	33,902
1981	6,410	1,395	2,946	1,911	3,721	2,334	3,480	595	621	5,991	29,404
1982	6,409	1,634	2,459	1,536	3,658	2,148	3,709	617	513	5,532	
1983	6,456	1,519	2,636	1,875	3,367	1,876	3,511	712	527	7,174	29,653
1984	5,415	1,515	3,002	1,408	3,979	1,618	2,985	671	530	7,024	28,127
1985	4,961	1,303	2,051	1,475	3,502	1,702	2,516	578	376	5,098	23,562
1986	6,124	1,547	1,737	1,675	4,479	2,128	2,740	560	438	5,235	26,663
1987	5,790	1,306	2,013	2,006	3,529	1,950	2,628	502	450	4,863	25,037
1988	6,369	1,350	2,211	2,061	4,011	2,006	4,221	442	435	4,671	25,237
1989	5,645	1,415	1,973	1,842	3,125	1,538	2,112	511	477	4,342	22,980
1990	5,452	1,672	1,860	1,790	2,776	1,759	2,257	481	539	4,293	22,879
1991	5,445	1,584	2,254	1,558	3,764	1,716	1,803	446	491	5,255	
1992	5,976	2,033	2,208	1,773	4,333	1,954	2,098	596	482	4,639	26,092
1993	5,708	1,755	2,053	1,685	3,193	2,047	2,053	485	472	4,080	23,541
1994	6,980	2,318	3,382	2,108	5,210	4,616	2,912	654	526	5,259	29,997
1995	8,269	2,836	2,615	2,301	5,140	2,855	2,758	889	771	4,446	32,880
1996	7,941	2,984	2,273	2,459	6,416	3,449	2,756	834	849	4,217	34,158
1997	9,940	3,897	3,118	2,507	6,124	4,120	3,558	698	689	4,112	38,983
1998	9,640	3,742	2,858	2,087	6,398	3,183	2,521	1,005	686	3,472	35,593
1999	10,806	3,236	2,920	2,631	7,150	3,890	3,058	973	716	4,412	39,792
2000	9,470	3,158	2,733	3,194	7,431	3,521	2,908	926	707	4,026	38,074
2001	7,904	2,679	2,494	2,709	5,757	3,314	3,286	712	580	3,694	32,939
2002	7,504	2,235	2,334	2,273	4,207	2,318	1,790	565	487	3,524	27,298
2003	7,950	2,549	2,551	2,679	5,518	3,620	3,558	637	558	3,734	32,353
2004	7,425	2,590	1,981	2,461	4,073	2,810	2,185	605	617	3,807	28,554
2005	6,755	2,179	2,225	2,157	4,586	3,592	2,561	592	521	3,387	28,555
2006	7,277	2,825	2,171	2,587	5,860	3,680	3,386	691	3,247	32,639	

AVERAGES:

NAWMP	7,722	1,020	2,682	1,502	4,219	1,679	5,496	547	564	5,296	30,727
Long Term	-11%	86%	-27%	39%	26%	65%	-39%	43%	547	542	34,200
	-3%	67%	-17%	39%	30%	63%	-17%	47%	23%	510	5,631
										622	27,278
										518	30,823

1 Preliminary, subject to further editing.

Current Year Percent Change From:
 NAWMP Long Term
 -11% 86% -27% 39% 26% 65% -39% 43% 23% 47% 23% -37%

D.E. SHARP FILE SICF_DIECKELDATA/BOOKHIPSURVEYS.XLS 07/25/06

TUNDRA SWAN

POPULATION STATUS & HARVESTS

D.E. SHARP FILE: S:\DATABOOK\TITLES\SWANHARV.123

EASTERN POPULATION OF TUNDRA SWANS OBSERVED DURING THE MIDWINTER WATERFOWL SURVEY

YR	MA	NY	PA	WV	NJ	DE	MD	VA	NC	SC	GA	FL	TOTAL	Avg	3-YR Avg	MF	CF
	ATLANTIC FLYWAY																
1955	0	0	118	0	7	1	71,604	4,250	13,686	15	0	0	0	89,681	66,253	16	
1956	0	0	18	0	0	4	20,002	7,325	11,347	3	0	0	0	38,699	60,573	21	
1957	6	0	0	3	8	7	35,200	600	4,400	0	0	0	0	40,224	56,201	171	3
1958	0	365	4	0	14	0	17,012	1,387	9,389	10	0	0	0	28,181	35,701	180	10
1959	0	6	0	0	11	0	15,200	3,500	9,000	0	0	0	0	27,717	32,041	131	1
1960	0	0	0	0	100	0	23,200	5,100	12,800	0	0	0	0	41,200	32,366	251	25
1961	0	0	0	0	0	0	36,200	9,500	16,800	0	0	0	0	62,500	43,806	25	53
1962	0	0	100	0	0	0	25,600	4,500	9,200	0	0	0	0	39,400	47,700	181	55
1963	0	0	0	0	100	0	35,800	12,500	13,000	0	0	0	0	61,400	54,433	188	55
1964	100	0	0	0	100	0	37,300	100	24,700	0	0	0	0	62,300	54,367	316	9
1965	0	0	0	0	100	0	45,400	600	7,900	0	0	0	0	54,000	59,233	172	4
1966	0	0	0	100	0	0	45,300	1,400	10,900	0	0	0	0	57,800	58,033	1,203	2
1967	0	0	0	0	100	0	52,200	1,200	18,800	0	0	0	0	72,310	61,370	331	29
1968	0	0	0	0	100	0	26,000	2,300	17,200	0	0	0	0	45,600	58,570	35	13
1969	0	0	0	0	0	0	36,400	0	25,600	0	0	0	0	62,000	59,970	0	6
1970	0	0	0	0	0	0	34,100	5,800	15,000	0	0	0	0	55,000	54,200	0	5
1971	0	0	0	0	0	0	38,800	3,400	16,000	0	0	0	0	58,210	58,403	0	33
1972	0	100	0	0	100	0	400	2,500	39,700	3,100	17,000	0	0	62,800	58,670	623	8
1973	417	1	263	0	166	51	34,399	3,000	19,000	13	0	0	0	57,310	59,440	100	0
1974	0	1	284	0	162	1,210	32,398	4,800	25,000	13	0	0	0	63,326	61,326	0	9
1975	0	2	322	0	570	395	36,400	2,097	26,900	0	2	0	0	66,688	62,622	0	7
1976	0	7	614	0	300	395	28,492	7,109	41,700	11	0	0	0	78,628	69,728	0	7
1977	0	0	70	0	315	435	27,597	4,485	43,300	36	0	0	0	76,238	73,851	0	1
1978	0	0	1,576	0	1,300	1,715	34,996	6,857	23,800	0	0	0	0	70,244	75,037	0	11
1979	0	4	599	0	2,710	61	34,495	9,700	30,500	52	0	0	0	78,121	74,868	0	0
1980	0	37	217	0	527	1,566	29,994	11,300	19,700	66	0	0	0	63,407	70,591	200	2
1981	0	3	1,260	0	725	959	29,996	13,122	46,600	100	0	0	0	92,765	78,098	200	0
1982	0	0	242	0	900	0	19,600	9,800	42,200	165	0	0	0	72,907	76,360	200	2
1983	0	0	800	0	1,800	3,000	23,000	5,600	52,200	64	0	0	0	86,464	84,045	500	2
1984	209	0	100	0	600	0	29,002	7,000	44,100	199	0	0	0	81,235	80,202	0	5
1985	0	0	340	0	1,230	100	23,500	6,965	61,500	269	5	0	0	93,909	87,203	400	0
1986	0	0	756	0	800	400	30,200	6,378	52,300	86	1	0	0	97,424	92,570	20	10
1987	0	0	5,105	1	4,000	1,400	25,700	4,685	53,543	70	0	0	0	94,504	93,120	100	3
1988	0	13	5	0	2,800	0	22,100	5,291	46,805	96	0	0	0	77,110	87,520	300	4
1989	0	0	502	0	2,300	175	28,542	5,927	53,100	45	3	0	0	90,594	87,403	0	4
1990	0	0	340	0	2,700	90	20,078	6,092	60,238	155	0	0	0	89,693	85,799	17	3
1991	0	1,856	0	2,800	121	23,104	4,491	64,999	53	0	0	0	93,946	88,697	0	0	
1992	0	35	3,058	0	724	144	22,976	7,207	75,607	37	0	0	0	109,788	98,968	327	1
1993	83	4,868	0	305	72	18,248	7,046	45,930	41	0	0	0	94,504	93,120	100	3	
1994	8	686	1	1,044	126	18,780	9,132	52,482	86	0	0	0	82,345	89,575	61	0	
1995	206	2,012	1	770	64	15,578	7,605	54,978	116	0	0	0	81,330	80,089	32	3	
1996	0	1,106	0	197	72	20,798	9,428	66,966	220	0	0	0	79,021	80,899	393	8	
1997	0	0	1,115	4	512	197	16,344	10,945	50,716	188	0	0	0	86,120	82,157	233	3
1998	0	0	3,515	0	667	594	12,238	11,211	57,730	165	0	0	0	96,544	87,228	858	1
1999	0	1,949	0	495	1,171	21,563	7,186	63,761	280	0	0	0	76,593	94,602	1,335	9	
2000	0	553	0	935	0	176	15,557	8,814	83,106	0	0	0	0	109,041	97,235	1,618	2
2001	99	363	24	197	130	1,497	15,609	7,596	77,044	100	0	0	0	103,082	102,889	2,344	7
2002	0	1,098	3	473	197	17	20,798	9,428	66,966	220	0	0	0	98,167	103,430	15	15
2003	0	205	548	0	105	802	15,112	7,725	83,351	339	0	0	0	103,830	101,693	3,661	13
2004	0	8	1,261	0	495	667	17,891	5,779	67,188	292	0	0	0	93,581	101,866	2,050	22
2005	0	132	0	205	387	13,248	6,488	47,364	125	0	0	0	68,735	90,168	1,054	12	
2006	0	399	2,464	2	165	147	8,239	4,576	54,064	398	0	0	0	70,454	77,590	1,069	26

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07/14/06

ESTIMATED HARVESTS (RETRIEVED) OF EASTERN AND WESTERN POPULATION TUNDRA SWANS

YR	EASTERN POPULATION					WESTERN POPULATION					TOTAL
	MT	ND	SD	NC	VA	UT	NV	MI	AK	TOTAL	
1962										320	320
1963							392			392	392
1964							335			335	335
1965							336			336	336
1966							491			491	491
1967							246			246	246
1968							520			520	520
1969							1,377	87		1,464	1,464
1970							1,078	208	179	1,465	1,465
1971							1,109	102	91	1,302	1,302
1972							1,028	124	150	1,302	1,302
1973							1,191	109	101	1,401	1,401
1974							1,377	190	259	1,826	1,826
1975							1,383	188	266	1,837	1,837
1976							1,109	206	139	1,454	1,454
1977							1,575	84	214	1,873	1,873
1978							1,152	90	146	1,388	1,388
1979							1,293	214	275	1,782	1,782
1980							1,156	103	250	1,509	1,509
1981							1,619	301	177	2,097	2,097
1982							1,244	161	139	1,544	1,544
1983							1,168	169	218	1,555	1,555
1984							1,194	229	221	1,644	1,644
1985							673	145	185	1,003	1,003
1986							2,523	2,542	947	1,343	1,343
1987							2,302	2,343	600	94	94
1988							2,684	117	854	280	280
1989							2,488	117	78	260	260
1990							2,128	133	694	81	81
1991							339	2,855	874	16	1,093
1992							474	128	3,855	275	275
1993							52	704	205	15	1,231
1994							37	833	187	79	79
1995							18	545	4,345	8	923
1996							62	712	130	221	221
1997							56	690	483	16	716
1998							605	172	2,833	1,142	1,142
1999							633	233	195	3,916	3,916
2000							61	403	2,325	704	704
2001							93	618	233	1,142	1,142
2002							81	867	223	858	858
2003							56	151	179	3,593	3,593
2004							633	337	144	249	249
2005							93	772	174	480	480
							115	151	159	761	761
							93	137	1,745	612	612
							93	137	2,436	779	779
							93	137	195	3,633	3,633
							93	137	179	82	82
							93	137	1,215	217	217
							93	137	1,215	43	43
							93	137	1,215	289	289
							93	137	1,215	113	113
							93	137	1,215	51	51
							93	137	1,215	77	77
							93	137	1,215	254	254
							93	137	1,215	51	51
							93	137	1,215	284	284
							93	137	1,215	41	41
							93	137	1,215	107	107
							93	137	1,215	238	238
							93	137	1,215	42	42
							93	137	1,215	103	103
							93	137	1,215	4325	4,325
											D.E. SHARP_SICF_DIEC

D.E. SHARP_SICF_DIEC

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AVERAGES:

1962-69	502	87	513
1970-79	1,230	152	1,563
1980-89	1,015	156	1,395
1990-99	715	102	2,767
2000-2005	572	75	5,148
1983-2005	727	107	4,244

**MID-CONTINENT & ROCKY MOUNTAIN POPULATIONS
OF SANDHILL CRANES
POPULATION STATUS & HARVESTS**

D.E. SHARP S:\WKFILES\DATABOOK\CRANES.123

Annual spring abundance indices for the Mid-Continent Population of sandhill cranes.

YR	CENTRAL PLATTE RIVER VALLEY, NE				ALL AREAS			
	OCULAR CRUISE TRANSECT	OCULAR TRANSECT	PHOTO CORRECTED OCULAR TRANSECT		OCULAR CRUISE TRANSECT	OCULAR TRANSECT	PHOTO CORRECTED OCULAR TRANSECT	
			ANNUAL	3-YR AVG			ANNUAL	3-YR AVG
OTHER NE	KS	CO ¹	OK ¹	NM ¹	TX			
1974	162,600		9,000	1,900	0	400	0	3,200
1975	223,600		2,300	900	500	100	100	tr
1976	147,500		2,800	300	0	100	1,000	800
1977	173,400		1,100	1,600	0	400	12,500	30,700
1978	149,800	188,582	2,200	700	0	0	2,300	4,900
1979	203,574		2,600	1,100	500	1,500	0	0
1980	223,400	254,417	5,000	4,100	0	100	500	234,500
1981		248,882	8,300	11,200	500	0	0	21,800
1982	347,996	417,263	7,100	2,000	2,800	0	100	7,800
1983	306,316	343,378	4,100	200	0	200	tr	7,000
1984	222,710	261,802	340,814	18,100	900	0	1,100	tr
1985	378,127	514,763	373,314	11,500	3,000		1,200	
1986	317,025	353,040	376,535	1,000	200		2,100	
1987	383,581	416,058	427,954	0	tr		400	
1988	386,853	463,457	410,852	0	0		7,700	
1989	391,353	391,995	423,837	100	1,000		800	
1990	385,950	412,154	422,535	11,000	5,200		10,300	
1991	297,831	340,645	381,598	100	800		200	
1992	257,709	406,457	386,419	12,200	300		1,100	
1993	253,799	378,883	375,328	16,800	37,750		13,500	
1994	395,543	477,215	420,852	14,600	0	2,400	0	412,543
1995	273,376	326,181	394,093	30,400	0	6,700	0	310,476
1996	318,514	519,984	441,127	7,600	0	3,900	0	330,014
1997	350,932	534,630	460,265	16,200	100		0	367,232
1998	337,203	530,848	528,487	13,600	100		0	350,903
1999	219,800	284,900	450,126	3,500	100,000		0	323,300
2000	484,600	490,100	435,283	16,900	26,100		500	528,100
2001	387,300	413,500	396,167	10,500	42,300		3,500	443,600
2002	309,000	315,000	406,200	17,100	15,100	5,800	1,200	348,200
2003	300,900	348,000	358,833	24,800	4,100		3,800	333,600
2004	365,400	426,500	363,167	17,700	1,200	100	2,200	386,600
2005	412,300	491,900	422,133	27,100	2,900	2,600	8,700	453,600
2006 ²	183,000						70,000	533,200

¹ CO, OK, and NM were eliminated from the Official Survey Area in 1985 by the CF CMU.

² Preliminary

Estimated retrieved harvests of Mid-Continent sandhill cranes in the U.S.

YR	CO	KS	MT	NM	ND	OK	SD	TX	WY	CENTRAL FLYWAY	OTHER SURVEY AREAS	AZ ⁴	NM ⁴	AK ^{2*}	U.S. TOTAL			
1975	91	16	911	2,122	142	86	6,123	6	9,497	1,094	1,094				10,591			
1976	106	29	858	52	200	12	6,122	14	7,393	637	637	8,030						
1977	39	18	1,456	4,078	410	47	6,094	9	12,151	471	471	12,622						
1978	106	36	1,089	2,777	389	19	5,720	10	10,146	239	239	10,385						
1979	129	14	1,170	2,733	387	19	5,917	0	10,379	517	517	10,896						
1980	68	16	1,019	2,245	363	130	6,305	6	10,152	809	809	10,961						
1981	92	11	907	2,395	397	78	6,245	9	10,134	20	383	403	10,537					
1982	49	21	335	2,469	535	212	4,295	0	7,916	62	1,160	1,222	9,138					
1983	70	28	354	6,471	373	177	5,471	15	12,959	17	1,540	1,557	14,516					
1984	85	15	414	4,367	433	139	5,811	7	11,271	23	1,986	2,009	13,280					
1985	82	7	334	4,650	416	101	7,184	2	12,776	48	1,197	1,245	14,021					
1986	33	1	250	6,563	392	99	5,149	0	12,487	108	184	539	831	13,318				
1987	86	15	159	5,334	957	99	6,117	3	12,770	127	318	836	1,281	14,051				
1988	68	18	372	3,815	1,061	100	7,330	8	12,772	172	127	1,241	1,540	14,312				
1989	25	33	319	4,656	1,003	194	7,400	9	13,639	126	138	545	809	14,448				
1990	87	44	377	6,804	698	165	9,865	1	18,041	114	259	918	1,291	19,332				
1991	224	31	593	4,580	604	128	6,916	3	13,079	172	235	677	1,084	14,163				
1992	84	103	505	4,654	478	141	6,455	13	12,433	139	54	640	833	13,266				
1993	112	602	95	6,985	826	110	8,769	0	18,005	113	178	201	492	18,497				
1994	143	767	56	6,235	1,167	239	7,233	4	16,201	86	153	648	887	17,088				
1995	208	990	156	673	7,017	1,091	170	10,322	1	20,628	124	111	812	1,047	21,675			
1996	91	58	332	6,639	1,066	166	7,816	10	17,111	114	78	1,205	1,397	18,508				
1997	168	1,167	45	248	6,545	600	10,800	4	19,766	171	45	870	1,086	20,852				
1998	64	1,362	17	258	7,967	645	454	9,054	10	19,831	114	55	1,042	21,042				
1999	56	1,455	29	321	5,748	879	8,469	8	17,149	92	101	NA*	193	17,342				
2000	363	590	15	311	5,081	552	374	8,208	10	15,504	166	100	985	1,251	16,755			
2001	257	1,033	43	297	5,173	713	478	6,999	7	15,000	154	106	941	1,201	16,201			
2002	294	1,067	23	342	2,852	490	160	7,837	22	13,087	197	92	850	1,139	14,226			
2003	230	942	49	617	4,564	200	166	11,560	7	18,335	155	162	330	647	18,982			
2004	92	856	54	350	3,967	441	67	8,715	4	14,546	192	167	438	797	15,343			
2005 ¹	266	475	67	575	3,792	513	190	12,681	16	18,575	227	175	384	786	19,361			
AVERAGES:																		
CURRENT YEAR PERCENT CHANGE FROM:																		
1975-79	94	23	1,097	2,352	308	37	5,995	8	9,913	592	592	592			10,505			
1980-89	66	17	446	4,297	593	133	6,131	6	11,688	78	192	1,024	1,171	12,858				
1990-99	124	63	417	6,317	805	195	8,570	5	17,224	124	127	779	952	18,177				
2000-04	247	898	37	383	4,327	479	249	8,664	10	15,294	173	125	709	1,007	16,301			
1975-04	120	980	37	534	4,651	597	157	7,343	7	13,839	117	140	819	974	14,813			

¹ Preliminary

² A proportion of the Alaskan harvest is composed of lesser sandhill cranes from the Pacific Coast Population

³ Harvest data are from state harvest surveys for only the MCP portion of the state, except in 1977-81, 1986, 1991, and 1998-99 where federal MQS state totals are prorated by the long-term percent MC cranes; data from 2000 forward are MCP portion from HIP.

⁴ This MC harvest for AZ and NM represents MC sandhill cranes that were harvested in RMP areas and are not represented in the CFMC Sandhill Crane Federal Harvest Survey

* No estimate is available.

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**Annual sport hunting mortality estimates for the Mid-Continent Population
of sandhill cranes in North America.**

YR	SPORT HUNTING MORTALITY					
	Retrieved				Unretrieved No. Am. ³	Total
	Central Flyway	Other Survey Total	Canada	Mexico ²		
1975	9,497	1,094	6,164	1,676	3,672	22,102
1976	7,393	637	1,635	967	2,032	12,663
1977	12,151	471	367	1,299	2,440	16,728
1978	10,146	239	876	1,126	2,308	14,695
1979	10,379	517	3,798	1,469	2,807	18,970
1980	10,152	809	5,582	1,654	3,349	21,546
1981	10,134	403	2,959	1,350	2,722	17,568
1982	7,916	1,222	2,837	1,198	2,451	15,624
1983	12,959	1,557	3,098	1,761	3,503	22,879
1984	11,271	2,009	3,717	1,700	3,375	22,072
1985	12,776	1,245	5,159	1,918	3,524	24,622
1986	12,487	831	6,106	1,942	3,646	25,012
1987	12,770	1,281	5,267	1,932	3,406	24,656
1988	12,772	1,540	6,946	2,126	3,750	27,134
1989	13,639	809	4,984	1,943	3,628	25,003
1990	18,041	1,291	4,839	2,417	4,228	30,817
1991	13,079	1,084	5,394	1,956	3,455	24,967
1992	12,433	833	5,645	1,891	3,133	23,935
1993	18,005	492	2,791	2,129	3,334	26,751
1994	16,201	887	3,788	2,088	3,029	25,992
1995	20,628	1,047	5,829	2,750	4,161	34,416
1996	17,111	1,397	4,313	2,282	3,609	28,713
1997	19,766	1,086	5,901	2,675	4,211	33,640
1998	19,831	1,211	9,525	3,057	4,901	38,524
1999	17,149	193*	8,400	2,574	3,950	32,267
2000	15,504	1,251	9,450	2,621	4,093	32,919
2001	15,000	1,201	8,785	2,499	4,014	31,499
2002	13,087	1,139	7,948	2,217	3,448	27,839
2003	18,335	647	9,586	2,857	4,246	35,671
2004 ¹	14,546	797	11,036	2,638	4,165	33,182
2005 ¹	18,575	786	9,877	2,924	4,512	36,674
AVERAGES:						
1975-79	9,913	592	2,568	1,307	2,652	17,032
1980-89	11,688	1,171	4,666	1,752	3,336	22,612
1990-99	17,224	1,036	5,643	2,382	3,801	30,002
2000-04	15,294	1,007	9,361	2,566	3,993	32,222
1975-04	13,839	1,001	5,424	2,024	3,486	25,747
CURRENT YEAR PERCENT CHANGE FROM:						
2004	28%	-1%	-11%	11%	8%	11%
1975-79	87%	33%	285%	124%	70%	115%
1980-89	59%	-33%	112%	67%	35%	62%
1990-99	8%	-24%	75%	23%	19%	22%
2000-04	21%	-22%	6%	14%	13%	14%
1975-04	34%	-21%	82%	44%	29%	42%

¹Preliminary

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07/13/06

²Unknown harvests (Mexico) were assumed to be 10% of harvests in the U.S. and Canada.

³Unretrieved kill as reported by hunters is used for the Central Flyway; for the remainder of harvest areas, it is assumed to be 20% of retrieved harvests.

*There is no estimate available for AK in that year.

Estimated retrieved harvests of the Rocky Mountain Population of greater sandhill cranes.

YR	UT	NM	AZ	WY	MT	ID	TOTAL
1981			20				20
1982			9	143			152
1983			35	154			189
1984			33	101			134
1985			40	138			178
1986			23	195			218
1987			60	190			250
1988		310	40	128			478
1989	54	483	51	125			713
1990	35	79	9	58			181
1991	48	47	44	101			240
1992		147	39	168	42		396
1993	28	297	61	115	45		546
1994	34	416	27	150	40		667
1995	27	270	33	77	41		448
1996	32	236	27	84	49	20	448
1997	30	114	22	82	62	136	446
1998	34	180	37	93	59	135	538
1999	54	198	21	124	71	190	658 ¹
2000	69	257	37	163	91	193	810 ²
2001	77	288	26	142	87	278	898
2002	60	160	42	132	51	194	639
2003	57	169	34	72	50	146	528
2004	53	189	35	124	51	142	594
2005	62	236	50	116	49	189	702

AVERAGES:							
1981-89	54	397	35	147			259
1990-99	36	198	32	105	51	120	457
2000-04	63	213	35	127	66	191	694
1981-04	46	226	34	124	57	159	432

CURRENT YEAR PERCENT CHANGE FROM:							
2004	17%	25%	43%	-6%	-4%	33%	18%
1981-89	15%	-40%	45%	-21%			171%
1990-99	73%	19%	56%	10%	-4%	57%	54%
2000-04	-2%	11%	44%	-8%	-26%	-1%	1%
1981-04	34%	4%	49%	-7%	-14%	19%	62%

¹ RMP Sandhill cranes (40) were also taken as part of research project in the San Luis Valley, CO

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² RMP Sandhill cranes (20) were also taken as part of research project in the San Luis Valley, CO

Spring population indices for Rocky Mountain sandhill cranes, 1984 - 96.

YR	SAN LUIS VALLEY, COLORADO					SURVEY COND.
	RAW COUNT	ADJ. FOR EST. BIAS ¹	ADJ. TO REM. LES. ²	OTHER AREAS	INDEX	
1984	10,962	14,488	13,562	550	14,112	POOR
1985	18,393	21,773	20,382	0	20,382	GOOD
1986	14,031	14,031	13,135	20	13,155	POOR
1987	13,561	15,661	14,660	0	14,660	POOR
1988	17,510	17,510	16,381	22	16,403	POOR
1989	17,302	18,389	17,004	0	17,004	GOOD
1990	20,851	24,593	21,221	275	21,496	GOOD
1991	19,990	18,405	16,045	175	16,220	GOOD
1992	23,516	23,516	19,999	9	20,008	GROUND
1993	17,576	17,576	16,478	1,260	17,738	POOR
1994	17,229	16,036	15,063	203	15,266	FAIR
1995	25,276	23,390	20,229	0	20,229	GOOD
1996	23,019	26,379	22,737	1,010	23,747	GOOD

¹ Raw estimate adjusted by photography for estimation bias

² Population estimate adjusted to remove the number of lesser sandhill cranes (non-RMP cranes).

Fall pre-migration population indices for Rocky Mountain sandhill cranes.

YR	UT	CO	ID	WY	MT	TOTAL	3-YR AVG
1987	1,578	1,443	10,686	2,327	1,447	17,481	
1992	2,810	3,181	5,801	2,241	5,264	19,297	
1995	1,528	2,284	6,864	1,671	3,681	16,028	
1996	1,849	1,255	8,334	2,526	2,974	16,938	
1997 ^{1,2}	2,450	1,604	8,132	2,255	3,595	18,036	17,001
1998	2,185	1,273	8,067	3,262	3,415	18,202	17,725
1999	2,292	1,102	8,761	4,205	3,141	19,501	18,580
2000	2,416	749	9,337	3,890	3,598	19,990	19,231
2001	1,522	666	7,160	2,626	4,585	16,559	18,683
2002	1,869	1,355	7,698	3,038	4,843	18,803	18,451
2003	2,546	745	7,822	3,446	4,964	19,523	18,295
2004	2,239	1,410	7,152	3,072	4,637	18,510	18,945
2005	2,646	1,052	7,668	3,911	5,588	20,865	19,633

¹ Incomplete survey efforts in years prior might have resulted in lower estimates; the official count begins in 1997.

² In October 1997, a special survey was also conducted in the SLV, Colorado and other areas, which resulted in a total of 27,090 Rocky Mountain and Mid-Continent cranes being counted.

CENTRAL FLYWAY

FRAMEWORKS

SUMMARY OF CENTRAL FLYWAY FRAMEWORKS FOR LIGHT GOOSE HUNTING, 1999-2005

	1999	2000	2001	2002	2003	2004	2005
EAST TIER STATES - ND, SD, NE, KS, OK, & E. TX							
Beginning Shooting Time	1/2 hr. before sunrise	1/2 hr. before sunrise		1/2 hr. before sunrise		1/2 hr. before sunrise	1/2 hr. before sunrise
Ending Shooting Time	Sunset	Sunset	Sunset	Sunset	Sunset	Sunset	Sunset
Earliest Opening Date	October 2	September 30	September 29	September 21	September 27	September 25	September 24
Latest Closing Date	March 10 ³	March 10	March 10	March 10	March 10	March 10	March 10 ³
Season Length	107	107	107	107	107	107	107
Daily Bag/ Possession	20/None	20/None	20/None	20/None	20/None	20/None	20/None
1 Excluding ND, SD, and NE north of the Platte River and the Rainwater Basin Zone where the ending date is February 18.							
2 Excluding Nebraska's Rainwater Basin Zone where the ending date is February 16.							
3 Excluding Nebraska's Rainwater Basin West Zone where the ending date is February 1.							
WEST TIER STATES - MT, WY, CO, NM, & W. TX							
Beginning Shooting Time	1/2 hr. before sunrise	1/2 hr. before sunrise		1/2 hr. before sunrise		1/2 hr. before sunrise	1/2 hr. before sunrise
Ending Shooting Time	Sunset	Sunset	Sunset	Sunset	Sunset	Sunset	Sunset
Earliest Opening Date	October 2	September 30	September 29	September 21	September 27	September 25	September 24
Latest Closing Date	March 10	March 10	March 10	March 10	March 10	March 10	March 10
Season Length	107	107	107	107	107	107	107
Daily Bag/ Possession	20/None	20/None	20/None	20/None	20/None	20/None	20/None
1 Excluding MT and WY north of I-80, where the ending date is February 18.							
D.E. SHARP FILE S:\CD_DIE\CEU\FRAMEWORKS\frameall.xls 12-Jul-06							

U.S. Federal Frameworks for the Hunting of Light Geese 1961-2005

	PACIFIC FLYWAY 1				WEST TIER STATES				CENTRAL FLYWAY 2				MISSISSIPPI FLYWAY				ATLANTIC FLYWAY					
	YEAR	OPEN	CLOSE	DAYS	BAG/POSS	OPEN	CLOSE	DAYS	BAG/POSS	OPEN	CLOSE	DAYS	BAG/POSS	OPEN	CLOSE	DAYS	BAG/POSS	OPEN	CLOSE	DAYS	BAG/POSS	
1961	Oct 7	Jan 7	75	6/6	Closed 3	Oct 01	Jan 08	60	5/5	34/6	Oct 01	Jan 08	60	5/5	3/6	Oct 01	Jan 08	60	5/5	18		
1962	Oct 6	Jan 6	75	6/6	Closed 3	Oct 06	Jan 06	75	5/5	3/6	Oct 01	Jan 13	75	5/5	3/6	Oct 01	Jan 13	60	5/5	18		
1963	Oct 5	Jan 5	90	6/6	1/1	Oct 05	Jan 05	90	5/5	5/6	Oct 01	Jan 15	75	5/5	5/6	Oct 01	Jan 15	70	5/5	18		
1964	Oct 10	Jan 10	90	6/6	1/1	Oct 10	Jan 10	90	5/5	5/6	Oct 01	Jan 15	75	5/5	5/6	Oct 01	Jan 15	70	5/5	18		
1965	Oct 9	Jan 9	90	6/6	1/1	Oct 01	Jan 15	75	5/5	5/6	Oct 01	Jan 15	75	5/5	5/6	Oct 01	Jan 15	70	5/5	18		
1966	Oct 8	Jan 8	90	6/6	1/1	Oct 01	Jan 15	75	5/5	5/6	Oct 01	Jan 15	75	5/5	5/6	Oct 01	Jan 15	70	5/5	18		
1967	Oct 7	Jan 14	90	6/6	1/1	Oct 30	Jan 14	75	5/5	5/6	Sep 30	Jan 14	75	5/5	5/6	Sep 30	Jan 14	70	5/5	18		
1968	Oct 5	Jan 12	93	6/6	1/1	Oct 01	Jan 15	75	2/2	5/6	Oct 01	Jan 15	75	5/5	5/6	Sep 28	Jan 12	70	5/5	18		
1969	Oct 4	Jan 11	93	6/6	1/1	Oct 01	Jan 15	86	2/4	5/6	Oct 01	Jan 15	86	5/5	5/6	Sep 27	Jan 11	21	5/5	18		
1970	Oct 3	Jan 17	93	6/6	1/1	Oct 01	Jan 17	90	2/4	5/6	Oct 01	Jan 17	95	5/5	5/6	Oct 01	Jan 24	21	5/5	18		
1971	Oct 2	Jan 16	93	6/6	1/1	Oct 01	Jan 16	90	2/4	5/6	Oct 01	Jan 16	75	5/5	5/6	Oct 01	Jan 23	23	5/5	18		
1972	Oct 1	Jan 20	93	6/6	1/1	Oct 01	Jan 24	93	2/4	5/6	Oct 01	Jan 24	72	4/4	5/6	Oct 01	Jan 20	23	5/5	18		
1973	Sep 29	Jan 20	93	6/6	1/1	Sep 29	Jan 20	93	2/4	5/6	Sep 29	Jan 20	72	5/5	5/6	Sep 30	Jan 14	70	5/5	18		
1974	Sep 28	Jan 19	93	6/6	1/1	Sep 28	Jan 19	93	2/4	5/6	Sep 28	Jan 19	72	5/5	5/6	Sep 28	Jan 12	70	5/5	18		
1975	Oct 4	Jan 18	93	3/6	1/1	Oct 04	Jan 18	93	2/4	5/6	Oct 04	Jan 18	72	5/5	5/6	Oct 01	Jan 20	23	5/5	18		
1976	Oct 2	Jan 23	93	3/6	1/1	Oct 02	Jan 23	93	2/4	5/6	Oct 02	Jan 23	72	5/5	5	Oct 01	Jan 20	23	5/5	18		
1977	Oct 1	Jan 22	93	3/6	1/1	Oct 01	Jan 22	93	2/4	5/6	Oct 01	Jan 22	86	5/5	5	Oct 01	Jan 20	23	5/5	18		
1978	Sep 30	Jan 21	93	3/6	1/1	Sep 30	Jan 21	93	2/4	5/6	Sep 30	Jan 21	86	5/5	5	Oct 01	Jan 20	23	5/5	18		
1979	Sep 29	Jan 20	93	3/6	1/1	Sep 29	Jan 20	93	2/4	6/9	Sep 29	Jan 20	86	5/5	5	Sep 29	Jan 20	23	5/5	18		
1980	Oct 4	Jan 18	93	3/6	1/1	Oct 04	Jan 18	8	3/4	6/10	Oct 04	Jan 18	86	5/10	8	Oct 04	Jan 20	23	5/5	18		
1981	Oct 3	Jan 17	93	3/6	1/1	Oct 03	Jan 17	8	3/4	6/10	Oct 03	Jan 17	86	5/10	8	Oct 03	Jan 20	23	5/5	18		
1982	Oct 2	Jan 23	93	3/6	1/1	Oct 02	Jan 23	8	3/6	6/10	Oct 02	Jan 23	86	5/10	8	Oct 02	Jan 20	23	5/5	18		
1983	Oct 1	Jan 22	93	3/6	1/1	Oct 01	Jan 22	8	3/6	6/10	Oct 01	Jan 22	86	5/10	8	Oct 01	Jan 20	23	5/5	18		
1984	Sep 29	Jan 20	93	3/6	1/1	Sep 29	Feb 12	8	3/6	6/10	Sep 29	Feb 12	86	5/10	8	Sep 29	Jan 20	23	5/5	18		
1985	Sep 28	Jan 19	93	3/6	1/1	Sep 28	Feb 16	11	3/6	6/10	Sep 28	Feb 16	86	5/10	8	Sep 28	Jan 20	23	5/5	18		
1986	Oct 4	Jan 18	93	3/6	1/1	Oct 04	Feb 15	11	3/6	6/10	Oct 04	Feb 15	86	5/10	8	Oct 04	Jan 20	23	5/5	18		
1987	Oct 3	Jan 17	93	3/6	1/1	Oct 03	Feb 14	11	3/6	6/10	Oct 03	Feb 14	86	5/10	8	Oct 03	Jan 20	23	5/5	18		
1988	Oct 1	Jan 22	93	3/6	1/1	Oct 01	Feb 14	11	3/6	6/10	Oct 01	Feb 14	86	5/10	8	Oct 01	Jan 20	23	5/5	18		
1989	Sep 30	Jan 21	93	3/6	1/1	Sep 30	Feb 18	11	3/6	6/10	Sep 30	Feb 18	100	5/10	8	Sep 30	Jan 21	23	5/5	18		
1990	Sep 29	Jan 20	93	3/6	1/1	Sep 29	Feb 17	11	3/6	6/10	Sep 29	Feb 17	86	100	5/10	Sep 29	Jan 20	23	5/5	18		
1991	Sep 28	Jan 19	93	3/6	1/1	Sep 28	Feb 16	11	3/6	6/10	Sep 28	Feb 16	86	100	5/10	Sep 28	Jan 20	23	5/5	18		
1992	Oct 3	Jan 17	93	3/6	1/1	Oct 03	Feb 14	11	3/6	6/10	Oct 03	Feb 14	107	10/20	Oct 03	Oct 03	Jan 31	23	5/10	18		
1993	Oct 2	Jan 23	100	3/6	1/1	Oct 02	Feb 13	11	3/6	6/10	Oct 02	Feb 13	107	10/20	Oct 02	Feb 14	80	7/14	18	5/10	18	
1994	Oct 1	Jan 20	100	3/6	1/1	Oct 01	Feb 28	12	3/6	6/10	Oct 01	Feb 28	107	10/20	Oct 01	Feb 14	25	10/20	18	5/10	18	
1995	Oct 1	Jan 21	100	3/6	1/1	Oct 30	Mar 10	17	5/10	10/40	Sep 30	Mar 10	107	10/40	Oct 04	Mar 10	107	10/30	Oct 1	5/10	18	
1996	Sep 29	Jan 19	100	3/6	1/1	Sep 28	Mar 10	17	5/10	10/40	Sep 28	Mar 10	107	10/40	Oct 04	Mar 10	107	10/30	Oct 1	5/10	18	
1997	Oct 4	Jan 18	100	3/6	1/1	Oct 04	Mar 10	17	5/10	10/40	Oct 04	Mar 10	107	10/40	Oct 04	Mar 10	107	10/30	Oct 1	5/10	18	
1998	Oct 03	Jan 17	100	3/6	1/1	Oct 03	Mar 10	17	5/10	10/40	Oct 03	Mar 10	107	10/40	Oct 03	Mar 10	107	10/30	Oct 1	5/10	18	
1999	Sep 30	Jan 21	100	3/6	1/1	Sep 30	Mar 10	17	5/10	10/40	Sep 30	Mar 10	107	20/none	Oct 02	Mar 10	107	20/none	Oct 1	5/10	18	
2000	Sep 30	Jan 20	100	3/6	1/1	Sep 30	Mar 10	17	5/10	10/40	Sep 30	Mar 10	107	20/none	Oct 02	Mar 10	107	20/none	Oct 1	5/10	18	
2001	Sep 29	Jan 19	100	3/6	1/1	Sep 29	Mar 10	17	5/10	10/40	Sep 29	Mar 10	107	20/none	Oct 02	Mar 10	107	20/none	Oct 1	5/10	18	
2002	Sep 29	Jan 19	100	3/6	1/1	Sep 29	Mar 10	17	5/10	10/40	Sep 29	Mar 10	107	20/none	Oct 02	Mar 10	107	20/none	Oct 1	5/10	18	
2003	Oct 04	Jan 25	100	3/6	1/1	Oct 04	Mar 10	17	5/10	10/40	Oct 04	Mar 10	107	20/none	Oct 04	Mar 10	107	20/none	Oct 1	5/10	18	
2004	Sep 25	Jan 30	100	3/6	1/1	Sep 25	Mar 10	17	5/10	10/40	Sep 25	Mar 10	107	20/none	Oct 04	Mar 10	107	20/none	Oct 1	5/10	18	
2005	Oct 01	Jan 29	100	3/6	1/1	Sep 24	Mar 10	17	5/10	10/40	Sep 24	Mar 10	107	20/none	Oct 04	Mar 10	107	20/none	Oct 1	5/10	18	

¹ Alaska frameworks are separate. Generally 105-107 days with a total goose bag of 6

² East - ND/SD/NK/SCK/Y(E), West - MT/WY/COMNMTX(N)

³ The season is closed on Ross geese in Wyoming

⁴ The bag/possession limit on Ross geese is 1/1.

⁵ The bag/possession limit for light geese is 5/6 for NM and the western goose zone, TX

⁶ Aggregate goose limit

⁷ Excluding ND, SD, and NE, where the ending date is Feb 12

⁸ Excluding NM/MRGV, where the ending date is Feb 14 (1981), Feb 13 (1982), Feb 12 (1983), Feb 28 (1984/22)

⁹ The bag/possess limit for light geese is 5/6 for NM and the western goose zone, TX

¹⁰ The bag/possess limit for light geese is 5/6 for NM and the western goose zone, TX

¹¹ Excluding NM/MRGV, where the ending date is Feb 12

¹² Excluding MT and WY, where the ending date is Feb 12

¹³ Excluding ND and NE north of the Platte R., and the Rainwater Basin Zone where the ending date is Feb 13

¹⁴ Excluding NE Rainwater Basin Zone where the ending date is Feb 16

¹⁵ Excluding NE Rainwater Basin Zone where the ending date is Feb 01

¹⁶ Excluding MT and WY north of 1/80 where the ending date is Feb 18

¹⁷ Excluding MT and WY north of 1/80 where the ending date is Feb 18

¹⁸ Aggregate goose limit - all may be light geese

¹⁹ Closing date for ARS is Jan 31

²⁰ Season closed in Isaquena, Stanhope, and Washington Co, MS

²¹ Closing date in LA is Feb 15

²² Closing date in WIS Oct 01

²³ Closing date for KY, AR, TN, MS and AL is Jan 31

²⁴ Closing date in KY, AR, TN, MS and AL is Feb 14

²⁵ States and portions of states south of 1/80 have an ending date of Mar 10

²⁶ NJ, DE, MD, NC, PA, SC, and VA closing date of 3/10 allowed; SC closes 2/10 closing

²⁷ D.E. Sharp FILESCD_DirectivesFramework.xls

²⁸ D.E. Sharp FILESCD_DirectivesFramework.xls

²⁹ D.E. Sharp FILESCD_DirectivesFramework.xls

³⁰ D.E. Sharp FILESCD_DirectivesFramework.xls

³¹ D.E. Sharp FILESCD_DirectivesFramework.xls

³² D.E. Sharp FILESCD_DirectivesFramework.xls

³³ D.E. Sharp FILESCD_DirectivesFramework.xls

³⁴ D.E. Sharp FILESCD_DirectivesFramework.xls

³⁵ D.E. Sharp FILESCD_DirectivesFramework.xls

³⁶ D.E. Sharp FILESCD_DirectivesFramework.xls

³⁷ D.E. Sharp FILESCD_DirectivesFramework.xls

³⁸

SUMMARY OF CENTRAL FLYWAY FRAMEWORKS FOR DUCK HUNTING, 1999-2005

	1999	2000	2001	2002	2003	2004	2005
Beginning Shooting Time	1/2 hr. before sunrise						
Ending Shooting Time	Sunset						
Opening Date	Oct 2	Sep 30	Sep 29	Sep 21	Sep 27	Sep 25	Sep 24
Closing Date	Jan 23	Jan 21	Jan 20	Jan 26	Jan 25	Jan 30	Jan 29
Season Length	74 +23 HP ¹						
Daily Bag/ Possession	6 12						
Species/Sex Restrictions							
Mallard (M)	5	5	5	5	5	5	5
Mallard (F)	2	2	2	2	2	2	2
Pintail	1	1	1	1/39 days	1/39 days	1/39 days	1/39 days
H. Merganser ²	1	1	1	1	1	1	1
Canvasback	1	1	1/25 days	Closed	1/39 days	1/39 days	1/39 days
Redhead	2	2	2	2	2	2	2
Scaup	3	3	3	3	3	3	3
Wood Duck	2	2	2	2	2	2	2
Mottled Duck	1	1	1	1	1	1	1

D.E. SHARP FILE S:\CF\PROJECTS\FRAMEWORKS\kramall.xls 12-Jul-06

¹ HP = High Plains Management Unit. Additional days must be taken no earlier than the Saturday closest to December 10.

² The merganser bag can be separated from the duck bag.

SUMMARY OF CENTRAL FLYWAY FRAMEWORKS FOR SANDHILL CRANE HUNTING, 1999-2005

¹ Additional experimental seasons offered
² Season covers dates selected >1 zone/area

3 BMP hunt: 8/1-1/31 30 days 3/9

ADAPTIVE HARVEST MANAGEMENT CRITERIA

D.E. SHARP S:\WKFILES\DATABOOK\AHMCRIT.123

1995-96 AHM MATRIX

Optimal regulatory choices¹ for midcontinent mallards during the 1995-96 hunting season.

MALLARDS ²	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
4.5	M	M	M	L	L	L	L	L	L	L
5.0	L	L	L	L	L	L	L	L	L	L
5.5	L	L	L	L	L	L	L	L	L	L
6.0	L	L	L	L	L	L	L	L	L	L
6.5	L	L	L	L	L	L	L	L	L	L
7.0	L	L	L	L	L	L	L	L	L	L
7.5	L	L	L	L	L	L	L	L	L	L
8.0	L	L	L	L	L	L	L	L	L	L
8.5	L	L	L	L	L	L	L	L	L	L
9.0	L	L	L	L	L	L	L	L	L	L
9.5	L	L	L	L	L	L	L	L	L	L
10.0	L	L	L	L	L	L	L	L	L	L
10.5	L	L	L	L	L	L	L	L	L	L
11.0	L	L	L	L	L	L	L	L	L	L

¹ Package choices: R = restrictive, M = moderate, L = liberal. The 1995-96 optimal choice is indicated by grey-shaded cell (1995 values = 9.32 million mallards and 3.89 million ponds).

² Estimated number (millions) of midcontinent mallards during May surveys (including MN, WI, and MI).

³ Estimated number (millions) of ponds counted in Prairie Canada during May surveys.

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1997-98 AHM MATRIX

Optimal regulatory choices¹ for midcontinent mallards during the 1997-98 hunting season.

MALLARDS ²	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
4.5										
5.0										
5.5										
6.0										
6.5										
7.0										
7.5										
8.0										
8.5										
9.0										
9.5										
10.0										
10.5										
11.0										

¹ Package choices: VR = very restrictive, R = restrictive, M = moderate, L = liberal. 1997-98 optimal choice is indicated by grey-shaded cell (1997 values = 10.97 million mallards and 5.06 million ponds).

² Estimated number (millions) of midcontinent mallards during May surveys (including MN, WI, and MI).

³ Estimated number (millions) of ponds counted in Prairie Canada during May surveys.

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1996-97 AHM MATRIX

Optimal regulatory choices¹ for midcontinent mallards during the 1996-97 hunting season.

MALLARDS ²	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
4.5							R	R	R	
5.0							R	R	R	
5.5							R	M	M	
6.0	R	R	R	R	R	R	M	M	L	L
6.5	R	R	R	M	M	M	M	L	L	L
7.0	M	M	M	L	L	L	L	L	L	L
7.5	M	L	L	L	L	L	L	L	L	L
8.0	L	L	L	L	L	L	L	L	L	L
8.5	L	L	L	L	L	L	L	L	L	L
9.0	L	L	L	L	L	L	L	L	L	L
9.5	L	L	L	L	L	L	L	L	L	L
10.0	L	L	L	L	L	L	L	L	L	L
10.5	L	L	L	L	L	L	L	L	L	L
11.0	L	L	L	L	L	L	L	L	L	L

¹ Package choices: R = restrictive, M = moderate, L = liberal. The 1996-97 optimal choice is indicated by grey-shaded cell (1996 values = 8.89 million mallards and 5.00 million ponds).

² Estimated number (millions) of midcontinent mallards during May surveys (including MN, WI, and MI).

³ Estimated number (millions) of ponds counted in Prairie Canada during May surveys.

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1998-99 AHM MATRIX

Optimal regulatory choices¹ for midcontinent mallards during the 1998-99 hunting season.

MALLARDS ²	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
4.5										
5.0										
5.5										
6.0										
6.5										
7.0										
7.5										
8.0										
8.5										
9.0										
9.5										
10.0										
10.5										
11.0										

¹ Package choices: VR = very restrictive, R = restrictive, M = moderate, L = liberal. 1998-99 optimal choice is indicated by large-framed cell (1998 values = 10.62 million mallards and 2.52 million ponds).

² Estimated number (millions) of midcontinent mallards during May surveys (including MN, WI, and MI).

³ Estimated number (millions) of ponds counted in Prairie Canada during May surveys.

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2005-2006 AHM MATRIX

Optimal regulatory choices¹ for midcontinent mallards during the 2005 hunting season.

MALLARDS ²	CANADIAN PONDS ³									
	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
<=5.25	C	C	C	C	C	C	C	C	C	C
5.50-6.25	R	R	R	R	R	R	R	R	R	R
6.50	R	R	R	R	R	R	R	R	M	
6.75	R	R	R	R	R	M	M	M	M	L
7.00	R	R	R	R	M	M	L	L	L	
7.25	R	R	R	M	M	L	L	L	L	
7.50	R	M	M	M	L	L	L	L	L	
7.75	M	M	M	L	L	L	L	L	L	
8.00	M	M	L	L	L	L	L	L	L	
8.25	L	L	L	L	L	L	L	L	L	
>=8.5	L	L	L	L	L	L	L	L	L	

¹ Package choices: R = restrictive, M = moderate, L = liberal. 2005-2006 optimal choice is indicated by grey-shaded cell (2005 values = 7.54 million mallards and 3.92 million ponds).

² Estimated number (millions) of midcontinent mallards during May surveys (including MN, WI, and MI).

³ Estimated number (millions) of ponds in Prairie Canada during May surveys.

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2006-2007 AHM MATRIX

Optimal regulatory choices¹ for midcontinent mallards during the 2006 hunting season.

MALLARDS ²	CANADIAN PONDS ³									
	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
<=5.25	C	C	C	C	C	C	C	C	C	C
5.50-6.25	R	R	R	R	R	R	R	R	R	R
6.50	R	R	R	R	R	R	R	R	M	M
6.75	R	R	R	R	R	R	R	M	M	L
7.00	R	R	R	R	M	M	M	L	L	L
7.25	R	R	R	M	M	L	L	L	L	L
7.50	R	R	M	M	L	L	L	L	L	L
7.75	M	L	M	L	L	L	L	L	L	L
8.00	M	L	L	L	L	L	L	L	L	L
>=8.25	L	L	L	L	L	L	L	L	L	L

¹ Package choices: C = closed, R = restrictive, M = moderate, L = liberal. 2006-2007 optimal choice is indicated by grey-shaded cell (2006 values = 7.86 million mallards and 4.45 million ponds).

² Estimated number (millions) of midcontinent mallards during May surveys (including MN, WI, and MI).

³ Estimated number (millions) of ponds in Prairie Canada during May surveys.

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**CENTRAL FLYWAY
COUNCIL**

**CENTRAL FLYWAY
WATERFOWL TECHNICAL
COMMITTEE**

**CENTRAL FLYWAY
WEBLESS GAME BIRD
TECHNICAL COMMITTEE**

**CENTRAL FLYWAY
NONGAME TECHNICAL COMMITTEE**

USFWS FLYWAY REPRESENTATIVES

GAY SIMPSON AWARD

CENTRAL FLYWAY COUNCIL

1948-2006

co	KS	MT	NE	NM	ND	OK	SD	TX	WY	NWT	AB	SK
1948 C.N. Feast	D.D. Leahy	W.G. Freeman	L.P. Vance	H.C. Pickens	H.R. Morgan	A. D. Aldrich	E. Peterson	W.C. Glazener	L. Bagley			
1949 C.N. Feast	D.D. Leahy	R.D. Shipley	L.P. Vance	H.C. Pickens	H.R. Morgan	A. D. Aldrich	E. Peterson	W.C. Glazener	L. Bagley			
1950 C.N. Feast	D.D. Leahy	R.D. Shipley	L.P. Vance	H.C. Pickens	H.R. Morgan	A. D. Aldrich	E. Peterson	W.C. Glazener	L. Bagley			
1951 C.N. Feast	D.D. Leahy	R.D. Shipley	L.P. Vance	H.C. Pickens	H.R. Morgan	A. D. Aldrich	E. Peterson	W.C. Glazener	L. Bagley			
1952 T.L. Kimball	D.D. Leahy	R.D. Shipley	L.P. Vance	H.C. Pickens	H.R. Morgan	A. D. Aldrich	E. Peterson	W.J. Cutbirth	L. Bagley			
1953 T.L. Kimball	D.D. Leahy	R.D. Shipley	L.P. Vance	H.C. Pickens	H.R. Morgan	A. D. Aldrich	E. Peterson	W.J. Cutbirth	L. Bagley			
1954 T.L. Kimball	D.D. Leahy	R.D. Shipley	L.P. Vance	H.C. Pickens	H.R. Morgan	A. D. Aldrich	E. Peterson	W.J. Cutbirth	L. Bagley			
1955 T.L. Kimball	D.D. Leahy	R.D. Shipley	L.P. Vance	H.C. Pickens	H.R. Morgan	D. Ware	E. Peterson	W.J. Cutbirth	L. Bagley			
1956 T.L. Kimball	D.D. Leahy	A. O'Clarie	L.P. Vance	H.C. Pickens	H.R. Morgan	D. Ware	E. Peterson	W.J. Cutbirth	A.F.C. Greene			
1957 T.L. Kimball	D.D. Leahy	A. O'Clarie	M.O. Steen	H.C. Pickens	I.G. Bue	T.A. Schrader	C. Burch	H.R. Woodward	A.F.C. Greene			
1958 T.L. Kimball	D.D. Leahy	A. O'Clarie	M.O. Steen	F.A. Thompson	I.G. Bue	C. Burch	C. Burch	H.R. Woodward	A.F.C. Greene			
1959 T.L. Kimball	D.D. Leahy	W.J. Everin	M.O. Steen	F.A. Thompson	I.G. Bue	R.A. Stafford	R.A. Stafford	H.R. Woodward	A.F.C. Greene			
1960 H.L. Woodward	F. Wards	W.J. Everin	M.O. Steen	F.A. Thompson	I.G. Bue	R.A. Stafford	R.A. Stafford	H.R. Woodward	S.J. Jiaciotti			
1962 H.L. Woodward	G. Moore	W.J. Everin	M.O. Steen	F.A. Thompson	R.W. Stuart	R.W. Stuart	R.W. Stuart	H.R. Woodward	S.J. Jiaciotti			
1963 H.L. Woodward	G. Moore	W.J. Everin	M.O. Steen	F.S. Huey	R.W. Stuart	R.W. Stuart	R.W. Stuart	H.R. Woodward	A.F.C. Greene			
1964 H.L. Woodward	G. Moore	W.G. Freeman	M.O. Steen	F.S. Huey	R.W. Stuart	R.W. Stuart	R.W. Stuart	H.R. Woodward	A.F.C. Greene			
1965 H.L. Woodward	G. Moore	F.H. Dunkle	M.O. Steen	F.S. Huey	R.W. Stuart	R.W. Stuart	R.W. Stuart	H.R. Woodward	A.F.C. Greene			
1966 H.L. Woodward	G. Moore	F.H. Dunkle	M.O. Steen	F.S. Huey	R.W. Stuart	R.W. Stuart	R.W. Stuart	H.R. Woodward	A.F.C. Greene			
1967 H.L. Woodward	G. Moore	F.H. Dunkle	M.O. Steen	F.S. Huey	R.W. Stuart	R.W. Stuart	R.W. Stuart	H.R. Woodward	A.F.C. Greene			
1968 M.D. Schwillng	M.D. Schwillng	F.H. Dunkle	M.O. Steen	F.S. Huey	R.W. Stuart	R.W. Stuart	R.W. Stuart	H.R. Woodward	A.F.C. Greene			
1969 H.L. Woodward	M.D. Schwillng	F.H. Dunkle	M.O. Steen	F.S. Huey	R.W. Stuart	R.W. Stuart	R.W. Stuart	H.R. Woodward	A.F.C. Greene			
1970 H.L. Woodward	M.D. Schwillng	F.H. Dunkle	M.O. Steen	F.S. Huey	R.W. Stuart	R.W. Stuart	R.W. Stuart	H.R. Woodward	A.F.C. Greene			
1971 H.L. Woodward	M.D. Schwillng	F.H. Dunkle	M.O. Steen	F.S. Huey	R.W. Stuart	R.W. Stuart	R.W. Stuart	H.R. Woodward	A.F.C. Greene			
1972 H.L. Woodward	M.D. Schwillng	F.H. Dunkle	M.O. Steen	F.S. Huey	R.W. Stuart	R.W. Stuart	R.W. Stuart	H.R. Woodward	A.F.C. Greene			
1973 J.R. Grieb	W.G. Freeman	W.G. Freeman	W.R. Barbee	W.S. Huey	R.W. Stuart	R.W. Stuart	R.W. Stuart	H.R. Woodward	A.F.C. Greene			
1974 J.R. Grieb	W.G. Freeman	W.G. Freeman	W.R. Barbee	W.S. Huey	R.W. Stuart	R.W. Stuart	R.W. Stuart	H.R. Woodward	A.F.C. Greene			
1975 J.R. Grieb	W.G. Freeman	W.G. Freeman	W.R. Barbee	W.S. Huey	R.W. Stuart	R.W. Stuart	R.W. Stuart	H.R. Woodward	A.F.C. Greene			
1976 J.R. Grieb	W.G. Freeman	L. Queal	W.J. Bailey	W.S. Huey	R.W. Stuart	R.W. Stuart	R.W. Stuart	H.R. Woodward	A.F.C. Greene			
1977 J.R. Grieb	W.G. Freeman	E. Allen	W.J. Bailey	W.S. Huey	R.W. Stuart	R.W. Stuart	R.W. Stuart	H.R. Woodward	A.F.C. Greene			
1978 J.R. Grieb	W.H. Hanzlick	J. Conley	W.J. Bailey	W.S. Huey	H.Olsen	L.Kruukenberg	K.L. Cool	J. Lounsherry	D. Neave			
1979 J.R. Grieb	W.H. Hanzlick	E. Allen	W.J. Bailey	W.S. Huey	H.Olsen	C.H. Schroeder	K.L. Cool	T.L.Clark	D. Neave			
1980 J.R. Grieb	W.H. Hanzlick	E. Allen	W.J. Bailey	W.S. Huey	H.Olsen	C.H. Schroeder	K.L. Cool	T.L.Clark	D. Neave			
1981 J.R. Grieb	W.H. Hanzlick	E. Allen	W.J. Bailey	W.S. Huey	H.Olsen	C.H. Schroeder	K.L. Cool	T.L.Clark	D. Neave			
1982 J.R. Grieb	W.H. Hanzlick	E. Allen	W.J. Bailey	W.S. Huey	H.Olsen	C.H. Schroeder	K.L. Cool	T.L.Clark	D. Neave			
1983 J.R. Grieb	W.H. Hanzlick	E. Allen	W.J. Bailey	W.S. Huey	H.Olsen	C.H. Schroeder	K.L. Cool	T.L.Clark	D. Neave			
1984 J.R. Grieb	W.H. Hanzlick	D.W. Witt	W.J. Bailey	D.Sutcliffe	C.H. Schroeder	S. Lewis	J. Saylor	T.L.Clark	D. Neave			
1985 J. Lipscomb	W.H. Hanzlick	D.W. Witt	W.J. Bailey	D.Sutcliffe	C.H. Schroeder	S. Lewis	J. Saylor	T.L.Clark	D. Neave			
1986 J. Lipscomb	W.H. Hanzlick	A. Olsen	W.J. Bailey	W.J. Bailey	W.Montoya	L.A. Jones	R. Berginson	B. Alexander	D. Sherratt			
1987 J. Lipscomb	W.H. Hanzlick	A. Olsen	W.J. Bailey	W.J. Bailey	W.Montoya	L.A. Jones	R. Berginson	C. Allen	D. Sherratt			
1988 R.D. Hopper	W.A. Wentz	J. Kramer	K.L. Cool	W.Montoya	K.L. Cool	R. Berginson	C. Allen	D. Sherratt	H.M. Hunt			
1989 R.D. Hopper	W.A. Wentz	J. Kramer	K.L. Cool	W.Montoya	K.L. Cool	R. Berginson	C. Allen	D. Sherratt	H.M. Hunt			
1990 R.D. Hopper	W.A. Wentz	J. Kramer	K.L. Cool	W.Montoya	K.L. Cool	R. Berginson	C. Allen	D. Sherratt	H.M. Hunt			
1991 R.D. Hopper	J. Kramer	J. Kramer	K.L. Cool	W.Montoya	K.L. Cool	R. Berginson	C. Allen	D. Sherratt	H.M. Hunt			
1992 R.D. Hopper	J. Kramer	J. Kramer	K.L. Cool	W.Montoya	K.L. Cool	R. Berginson	C. Allen	D. Sherratt	H.M. Hunt			
1993 R.D. Hopper	J. Kramer	J. Kramer	K.L. Cool	W.Montoya	K.L. Cool	R. Berginson	C. Allen	D. Sherratt	H.M. Hunt			
1994 P. Olson	J. Kramer	T.C. Hinz	W. Sheets	W. Montoya	K.L. Cool	R. Berginson	C. Allen	D. Sherratt	H.M. Hunt			
1995 P. Olson	J. Kramer	T.C. Hinz	W. Sheets	W. Montoya	K.L. Cool	R. Berginson	C. Allen	D. Sherratt	H.M. Hunt			
1996 J.K. Ringelman	J. Kramer	T.C. Hinz	W. Sheets	W. Montoya	K.L. Cool	R. Berginson	C. Allen	D. Sherratt	H.M. Hunt			
1997 J. Lipscomb	J. Kramer	T.C. Hinz	W. Sheets	W. Montoya	K.L. Cool	R. Berginson	C. Allen	D. Sherratt	H.M. Hunt			
1998 J. Mumma	J. Kramer	T.C. Hinz	W. Sheets	W. Montoya	K.L. Cool	R. Berginson	C. Allen	D. Sherratt	H.M. Hunt			
1999 W. Graul	J. Kramer	T.C. Hinz	W. Sheets	W. Montoya	K.L. Cool	R. Berginson	C. Allen	D. Sherratt	H.M. Hunt			
2000 W. Graul	J. Kramer	J. Herbert	K. Nelson	B. Hale	R. Hatchet	R. Hatchet	R. Hatchet	D. Sherratt	H.M. Hunt			
2001 W. Graul	J. Kramer	J. Herbert	K. Nelson	B. Hale	R. Hatchet	R. Hatchet	R. Hatchet	D. Sherratt	H.M. Hunt			
2002 J. Ver Steeg	J. Kramer	J. Herbert	K. Nelson	B. Hale	R. Hatchet	R. Hatchet	R. Hatchet	D. Sherratt	H.M. Hunt			
2003 J. Ver Steeg	J. Kramer	J. Herbert	K. Nelson	B. Hale	R. Hatchet	R. Hatchet	R. Hatchet	D. Sherratt	H.M. Hunt			
2004 J. Ver Steeg	J. Kramer	J. Herbert	K. Nelson	B. Hale	R. Hatchet	R. Hatchet	R. Hatchet	D. Sherratt	H.M. Hunt			
2005 J. Ver Steeg	J. Kramer	J. Herbert	K. Nelson	B. Hale	R. Hatchet	R. Hatchet	R. Hatchet	D. Sherratt	H.M. Hunt			
2006 J. Ver Steeg	J. Kramer	J. Herbert	K. Nelson	B. Hale	R. Hatchet	R. Hatchet	R. Hatchet	D. Sherratt	H.M. Hunt			

D.E.SHARP FILE: SWB/MOICF-DIPROJECTS/DATA/BO-

CENTRAL FLYWAY WATERFOWL TECHNICAL COMMITTEE

1954-2006

CO	KS	MT	NE	ND	OK	SD	TX	WY	AB	NWT	SK
1954 J.R. Grieb	J. Coats	W.G. Freeman	H.W. Miller	H.C. Pickens	B. Fashingbauer	R.D. Gray	E.H. Smith	J.R. Singleton	R. LaPatterson		
1955 J.R. Grieb	J. Coats	W.G. Freeman	H.W. Miller	H.C. Pickens	B. Fashingbauer	M. Dodson	R. Murdy	J.R. Singleton	R.M. Ballou		
1956 J.R. Grieb	O. Gesswitt	W.G. Freeman	H.W. Miller	L. Lee	C.H. Schroeder	M. Dodson	R. Murdy	J.R. Singleton	R.M. Ballou		
1957 J.R. Grieb	O. Gesswitt	W.G. Freeman	H.W. Miller	L. Lee	C.H. Schroeder	J.F. Sykora	M.E. Anderson	J.R. Singleton	R.M. Ballou		
1958 J.R. Grieb	D.C. Coleman	W.G. Freeman	H.W. Miller	W.S. Huey	C.H. Schroeder	F.F. Copelin	M.E. Anderson	J.R. Singleton	G.F. Wrakesraw		
1959 J.R. Grieb	D.C. Coleman	W.G. Freeman	G. Schildman	W.S. Huey	C.H. Schroeder	F.F. Copelin	M.E. Anderson	J.R. Singleton	G.F. Wrakesraw		
1960 J.R. Grieb	D.C. Coleman	D.W. Witt	G. Schildman	W.S. Huey	C.H. Schroeder	F.F. Copelin	M.E. Anderson	J.R. Singleton	G.F. Wrakesraw		
1961 J.R. Grieb	D.C. Coleman	D.W. Witt	G. Schildman	W.S. Huey	C.H. Schroeder	F.F. Copelin	M.E. Anderson	E.A. Walker	G.F. Wrakesraw		
1962 J.R. Grieb	D.C. Coleman	D.W. Witt	G. Schildman	L. Gordon	F.F. Copelin	R.D. Hart	A.J. Springs	G.F. Wrakesraw	J.L. Nelson		
1963 J.R. Grieb	M.D. Schwillling	D.W. Witt	G. Schildman	G.W. Merrill	C.H. Schroeder	C.O. Gilliam	R.D. Hart	G.F. Wrakesraw	R. Caldwell		
1964 J.R. Grieb	M.D. Schwillling	D.W. Witt	G. Schildman	G.W. Merrill	C.H. Schroeder	C.O. Gilliam	C. Twett	A.J. Springs	R. Caldwell		
1965 J.R. Grieb	M.D. Schwillling	D.W. Witt	G. Schildman	G.W. Merrill	C.H. Schroeder	C.O. Gilliam	C. Twett	G.F. Wrakesraw	R. Caldwell		
1966 J.R. Grieb	M.D. Schwillling	D.W. Witt	G. Schildman	G.W. Merrill	C.H. Schroeder	R.C. Drewniak	C.D. Stutzanbaker	G.F. Wrakesraw	R. Caldwell		
1967 J.R. Grieb	M.D. Schwillling	D.W. Witt	G. Schildman	G.W. Merrill	C.H. Schroeder	R.C. Drewniak	C.D. Stutzanbaker	G.F. Wrakesraw	R. Caldwell		
1968 J.R. Grieb	M.D. Schwillling	D.W. Witt	G. Schildman	G.W. Merrill	C.H. Schroeder	L. Due	C.D. Stutzanbaker	G.F. Wrakesraw	R. Caldwell		
1969 H.D. Funk	M.D. Schwillling	D.W. Witt	G. Schildman	G.W. Merrill	C.H. Schroeder	R.C. Drewniak	C.D. Stutzanbaker	G.F. Wrakesraw	D.S. Gray		
1970 H.D. Funk	M.D. Schwillling	D.W. Witt	G. Schildman	G.W. Merrill	C.H. Schroeder	L. Due	T. Kuck	C.D. Stutzanbaker	G.F. Wrakesraw	D.S. Gray	
1971 H.D. Funk	M.D. Schwillling	D.W. Witt	G. Schildman	G.W. Merrill	C.H. Schroeder	L. Due	T. Kuck	C.D. Stutzanbaker	G.F. Wrakesraw	D.S. Gray	
1972 H.D. Funk	M.D. Schwillling	D.W. Witt	G. Schildman	G.W. Merrill	C.H. Schroeder	L. Due	T. Kuck	C.D. Stutzanbaker	G.F. Wrakesraw	D.S. Gray	
1973 H.D. Funk	M.D. Schwillling	D.W. Witt	G. Schildman	J.L. Sands	C.H. Schroeder	L. Due	T. Kuck	C.D. Stutzanbaker	T. Burgess		
1974 H.D. Funk	M.D. Schwillling	D.W. Witt	G. Schildman	J.L. Sands	C.H. Schroeder	L. Due	T. Kuck	C.D. Stutzanbaker	H. Weaver		
1975 H.D. Funk	M.D. Schwillling	D.W. Witt	G. Schildman	J.L. Sands	C.H. Schroeder	L. Due	T. Kuck	G.F. Wrakesraw	D.S. Gray		
1976 H.D. Funk	M.D. Schwillling	D.W. Witt	G. Schildman	J.L. Sands	C.H. Schroeder	L. Due	T. Kuck	G.F. Wrakesraw	D.S. Gray		
1977 H.D. Funk	M.D. Schwillling	D.W. Witt	G. Schildman	J.L. Sands	C.H. Schroeder	L. Due	T. Kuck	G.F. Wrakesraw	D. Neave		
1978 M.J. Kraft	M.J. Kraft	D.W. Witt	G. Schildman	J.L. Sands	C.H. Schroeder	L. Due	T. Kuck	G.F. Wrakesraw	D. Neave		
1979 H.D. Funk	M.J. Kraft	D.W. Witt	J. Hyland	J. Egan	C.H. Schroeder	L. Due	T. Kuck	G.F. Wrakesraw	D. Neave		
1980 H.D. Funk	M.J. Kraft	T.C. Hintz	J. Hyland	J. Egan	C.H. Schroeder	L. Due	T. Kuck	G.F. Wrakesraw	D. Neave		
1981 H.D. Funk	M.J. Kraft	T.C. Hintz	J. Hyland	J. Egan	C.H. Schroeder	L. Due	T. Kuck	G.F. Wrakesraw	D. Neave		
1982 H.D. Funk	M.J. Kraft	T.C. Hintz	J. Hyland	J. Egan	C.H. Schroeder	L. Due	T. Kuck	G.F. Wrakesraw	D. Neave		
1983 H.D. Funk	M.J. Kraft	T.C. Hintz	J. Hyland	J. Egan	C.H. Schroeder	L. Due	T. Kuck	G.F. Wrakesraw	D. Neave		
1984 H.D. Funk	M.J. Kraft	T.C. Hintz	J. Hyland	J. Egan	C.H. Schroeder	L. Due	T. Kuck	G.F. Wrakesraw	D. Neave		
1985 H.D. Funk	M.J. Kraft	T.C. Hintz	J. Hyland	J. Egan	C.H. Schroeder	L. Due	T. Kuck	G.F. Wrakesraw	D. Neave		
1986 H.D. Funk	M.J. Kraft	T.C. Hintz	J. Hyland	J. Egan	C.H. Schroeder	L. Due	T. Kuck	G.F. Wrakesraw	D. Neave		
1987 H.D. Funk	M.J. Kraft	T.C. Hintz	J. Hyland	J. Egan	C.H. Schroeder	L. Due	T. Kuck	G.F. Wrakesraw	D. Neave		
1988 H.D. Funk	M.J. Kraft	T.C. Hintz	J. Hyland	J. Egan	C.H. Schroeder	L. Due	T. Kuck	G.F. Wrakesraw	D. Neave		
1989 H.D. Funk	M.J. Kraft	T.C. Hintz	J. Hyland	J. Egan	C.H. Schroeder	L. Due	T. Kuck	G.F. Wrakesraw	D. Neave		
1990 H.D. Funk	M.J. Kraft	T.C. Hintz	J. Hyland	J. Egan	C.H. Schroeder	L. Due	T. Kuck	G.F. Wrakesraw	D. Neave		
1991 H.D. Funk	M.J. Kraft	T.C. Hintz	J. Hyland	J. Egan	C.H. Schroeder	L. Due	T. Kuck	G.F. Wrakesraw	D. Neave		
1992 H.D. Funk	M.J. Kraft	T.C. Hintz	J. Hyland	J. Egan	C.H. Schroeder	L. Due	T. Kuck	G.F. Wrakesraw	D. Neave		
1993 H.D. Funk	M.J. Kraft	T.C. Hintz	J. Hyland	J. Egan	C.H. Schroeder	L. Due	T. Kuck	G.F. Wrakesraw	D. Neave		
1994 H.D. Funk	M.J. Kraft	T.C. Hintz	J. Hyland	J. Egan	C.H. Schroeder	L. Due	T. Kuck	G.F. Wrakesraw	D. Neave		
1995 J.K. Ringelman	M.J. Kraft	T.C. Hintz	J. Hyland	J. Egan	C.H. Schroeder	L. Due	T. Kuck	G.F. Wrakesraw	D. Neave		
1996 J.K. Ringelman	M.J. Kraft	T.C. Hintz	J. Hyland	J. Egan	C.H. Schroeder	L. Due	T. Kuck	G.F. Wrakesraw	D. Neave		
1997 J.K. Ringelman	M.J. Kraft	T.C. Hintz	J. Hyland	J. Egan	C.H. Schroeder	L. Due	T. Kuck	G.F. Wrakesraw	D. Neave		
1998 J. Gammonley	M.J. Kraft	T.C. Hintz	J. Hyland	J. Egan	C.H. Schroeder	L. Due	T. Kuck	G.F. Wrakesraw	D. Neave		
1999 J. Gammonley	M.J. Kraft	T.C. Hintz	J. Hyland	J. Egan	C.H. Schroeder	L. Due	T. Kuck	G.F. Wrakesraw	D. Neave		
2000 J. Gammonley	M.J. Kraft	T.C. Hintz	J. Hyland	J. Egan	C.H. Schroeder	L. Due	T. Kuck	G.F. Wrakesraw	D. Neave		
2001 J. Gammonley	M.J. Kraft	T.C. Hintz	J. Hyland	J. Egan	C.H. Schroeder	L. Due	T. Kuck	G.F. Wrakesraw	D. Neave		
2002 J. Gammonley	M.J. Kraft	T.C. Hintz	J. Hyland	J. Egan	C.H. Schroeder	L. Due	T. Kuck	G.F. Wrakesraw	D. Neave		
2003 J. Gammonley	M.J. Kraft	T.C. Hintz	J. Hyland	J. Egan	C.H. Schroeder	L. Due	T. Kuck	G.F. Wrakesraw	D. Neave		
2004 J. Gammonley	M.J. Kraft	T.C. Hintz	J. Hyland	J. Egan	C.H. Schroeder	L. Due	T. Kuck	G.F. Wrakesraw	D. Neave		
2005 J. Gammonley	M.J. Kraft	T.C. Hintz	J. Hyland	J. Egan	C.H. Schroeder	L. Due	T. Kuck	G.F. Wrakesraw	D. Neave		
2006 J. Gammonley	M.J. Kraft	T.C. Hintz	J. Hyland	J. Egan	C.H. Schroeder	L. Due	T. Kuck	G.F. Wrakesraw	D. Neave		

D.E. SHARP FILE: SJCF_D\PROJECTS\DATABOOK\HPWMBERS.XLS

CENTRAL FLYWAY WEBLESS MIGRATORY GAME BIRD TECHNICAL COMMITTEE

1966-2006

	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	IA	AR	MO	MN	MB	AB	NWT	SK
1966	J.R. Grieb	M.D. Schwillung	D.W. Witt	G. Schildman	G. W. Merrill	C.H. Schroeder	C.O. Gilliam	C. Tweedt	A.J. Springs	G.F. Wakestraw	K. Sadler	E. Kopischke						
1967	H.D. Funk	M.D. Schwillung	D.W. Witt	K. Johnson	G. W. Merrill	C.H. Schroeder	C.O. Gilliam	R. C. Drewien	C.D. Stutzbaker	G.F. Wakestraw	K. Sadler	E. Kopischke						
1968	H.D. Funk	M.D. Schwillung	D.W. Witt	K. Johnson	G. W. Merrill	C.H. Schroeder	C.O. Gilliam	R. C. Drewien	C.D. Stutzbaker	G.F. Wakestraw	R. Bishop	E. Kopischke						
1969	H.D. Funk	M.D. Schwillung	D.W. Witt	K. Johnson	G. W. Merrill	C.H. Schroeder	L. Due	T. Kuck	C.D. Stutzbaker	G.F. Wakestraw	R. Bishop	E. Kopischke						
1970	H.D. Funk	M.D. Schwillung	D.W. Witt	K. Johnson	G. W. Merrill	C.H. Schroeder	L. Due	T. Kuck	T. L. Clark	G.F. Wakestraw	R. Bishop	E. Kopischke						
1971	C.E. Braun	M.D. Schwillung	D.W. Witt	J.T. Sweet	J. L. Sands	C.H. Schroeder	L. Due	T. Kuck	T. L. Clark	G.F. Wakestraw	R. Bishop	E. Kopischke						
1972	C.E. Braun	M.D. Schwillung	D.W. Witt	J.T. Sweet	J. L. Sands	C.H. Schroeder	L. Due	T. Kuck	K. E. Gamble	G.F. Wakestraw	A. Fairis	E. Kopischke						
1973	C.E. Braun	M.J. Kraft	D.W. Witt	J.T. Sweet	J. L. Sands	C.H. Schroeder	L. Due	T. Kuck	K. E. Gamble	G.F. Wakestraw	A. Fairis	E. Kopischke						
1974	C.E. Braun	M.J. Kraft	D.W. Witt	J.T. Sweet	J. L. Sands	C.H. Schroeder	L. Due	T. Kuck	T. L. Clark	G.F. Wakestraw	A. Fairis	E. Kopischke						
1975	C.E. Braun	M.J. Kraft	D.W. Witt	J.T. Sweet	J. L. Sands	C.H. Schroeder	L. Due	T. Kuck	J. Dunks	G.F. Wakestraw	C. Schwartz	E. Kopischke						
1976	C.E. Braun	M.J. Kraft	D.W. Witt	J.T. Sweet	J. L. Sands	C.H. Schroeder	L. Due	T. Kuck	J. Dunks	G.F. Wakestraw	C. Schwartz	R.L. Jessen						
1977	C.E. Braun	M.J. Kraft	D.W. Witt	J.T. Sweet	J. L. Sands	C.H. Schroeder	L. Due	T. Kuck	J. Dunks	G.F. Wakestraw	R. George	R.L. Jessen						
1978	C.E. Braun	M.J. Kraft	D.W. Witt	J.T. Sweet	J. L. Sands	C.H. Schroeder	L. Due	T. Kuck	J. Dunks	G.F. Wakestraw	R. George	R.L. Jessen						
1979	C.E. Braun	M.J. Kraft	D.W. Witt	J.T. Sweet	J. L. Sands	C.H. Schroeder	L. Due	T. Kuck	J. Dunks	G.F. Wakestraw	R. George	R.L. Jessen						
1980	C.E. Braun	M.J. Kraft	T.C. Hinz	J.T. Sweet	J. L. Sands	C.H. Schroeder	L. Due	T. Kuck	J. Dunks	R. George	R. Saul	R. George						
1981	H.D. Funk	M.J. Kraft	T.C. Hinz	J.T. Sweet	J. L. Sands	M.A. Johnson	L. Due	T. Kuck	C.D. Stutzbaker	R. George	R. Saul	R. George						
1982	H.D. Funk	M.J. Kraft	T.C. Hinz	J.Y. Hyland	G. Downer	M.A. Johnson	L. Due	T. Kuck	R. George	R. Saul	R. Bishop	R. Bishop						
1983	H.D. Funk	G.J. Horak	T.C. Hinz	P.J. Gabig	G. Downer	M.A. Johnson	L. Due	S.G. Simpson	R. George	R. Saul	R. Bishop	R. Bishop						
1984	H.D. Funk	G.J. Horak	T.C. Hinz	P.J. Gabig	J. Herring	M.A. Johnson	L. Due	S.G. Simpson	R. George	R. Saul	R. Bishop	R. Bishop						
1985	H.D. Funk	G.J. Horak	T.C. Hinz	P.J. Gabig	J. Herring	S.C. Kohn	M. E. Omeilia	S.G. Simpson	R. George	R. Saul	R. Bishop	S. Yaich						
1986	H.D. Funk	G.J. Horak	T.C. Hinz	P.J. Gabig	J. Herring	S.C. Kohn	M. E. Omeilia	S.G. Simpson	R. George	R. Saul	R. Bishop	S. Yaich	D.L. Hallett	R.L. Jessen				
1987	H.D. Funk	G.J. Horak	T.C. Hinz	P.J. Gabig	J. Gonzales	J. Gonzales	M. E. Omeilia	S.G. Simpson	R. George	R. Saul	R. Bishop	S. Yaich	D.L. Hallett	R.L. Jessen				
1988	H.D. Funk	G.J. Horak	T.C. Hinz	P.J. Gabig	B. Hale	S.C. Kohn	M. E. Omeilia	S.G. Simpson	R. George	R. Saul	R. Bishop	S. Yaich	T.C. Eberhardt					
1989	H.D. Funk	G.J. Horak	T.C. Hinz	P.J. Gabig	J. Ward	S.C. Kohn	M. E. Omeilia	S.G. Simpson	R. George	R. Saul	R. Bishop	S. Yaich	D.L. Hallett	T.C. Eberhardt				
1990	H.D. Funk	M.J. Kraft	T.C. Hinz	P.J. Gabig	J. Ward	S.C. Kohn	M. E. Omeilia	S.Vaa	R. George	R. Saul	R. Bishop	S. Yaich	J. H. Schulz	T. Eberhardt				
1991	H.D. Funk	M.J. Kraft	T.C. Hinz	P.J. Gabig	J. Ward	S.C. Kohn	M. E. Omeilia	S.Vaa	R. George	R. Saul	R. Bishop	S. Yaich	G. Zemmer	R. L. Roberts				
1992	H.D. Funk	M.J. Kraft	T.C. Hinz	P.J. Gabig	B. Hale	S.C. Kohn	M. E. Omeilia	S.Vaa	R. George	R. Saul	R. Bishop	S. Yaich	J. H. Schulz	A. Berner				
1993	H.D. Funk	M.J. Kraft	T.C. Hinz	P.J. Gabig	B. Hale	S.C. Kohn	M. E. Omeilia	S.Vaa	J. Roberson	R. Saul	R. Bishop	S. Yaich	T. Moser	J. H. Schulz	A. Berner			
1994	J.K. Ringelman	M.J. Kraft	T.C. Hinz	P.J. Gabig	B. Hale	S.C. Kohn	M. E. Omeilia	S.Vaa	J. Roberson	R. Saul	R. Bishop	S. Yaich	T. Moser	J. H. Schulz	A. Berner			
1995	J.K. Ringelman	H. Hands	T.C. Hinz	P.J. Gabig	B. Hale	S.C. Kohn	M. E. Omeilia	S.Vaa	J. Roberson	L. Roberts	R. Bishop	S. Yaich	T. Moser	J. H. Schulz	A. Berner			
1996	J.K. Ringelman	H. Hands	T.C. Hinz	P.J. Gabig	B. Hale	S.C. Kohn	M. E. Omeilia	S.Vaa	J. Roberson	L. Roberts	R. Bishop	S. Yaich	T. Moser	J. H. Schulz	A. Berner			
1997	J. Gammonley	H. Hands	T.C. Hinz	P.J. Gabig	T. Mitchellson	S.C. Kohn	M. E. Omeilia	S.Vaa	J. Roberson	L. Roberts	R. Bishop	S. Yaich	T. Bogenschutz	M. Hill	J. H. Schulz	A. Berner		
1998	J. Gammonley	H. Hands	T.C. Hinz	P.J. Gabig	T. Mitchellson	S.C. Kohn	M. E. Omeilia	S.Vaa	J. Roberson	L. Roberts	R. Bishop	S. Yaich	T. Bogenschutz	M. Hill	J. H. Schulz	A. Berner		
1999	J. Gammonley	H. Hands	T.C. Hinz	P.J. Gabig	T. Mitchellson	S.C. Kohn	M. E. Omeilia	S.Vaa	J. Roberson	L. Roberts	R. Bishop	S. Yaich	T. Bogenschutz	M. Hill	J. H. Schulz	A. Berner		
2000	J. Gammonley	H. Hands	T.C. Hinz	P.J. Gabig	T. Mitchellson	S.C. Kohn	M. E. Omeilia	S.Vaa	J. Roberson	L. Roberts	R. Bishop	S. Yaich	T. Bogenschutz	M. Hill	J. H. Schulz	A. Berner		
2001	J. Gammonley	H. Hands	T.C. Hinz	P.J. Gabig	T. Mitchellson	S.C. Kohn	M. E. Omeilia	S.Vaa	J. Roberson	L. Roberts	R. Bishop	S. Yaich	T. Bogenschutz	M. Hill	J. H. Schulz	A. Berner		
2002	J. Gammonley	H. Hands	T.C. Hinz	P.J. Gabig	T. Mitchellson	S.C. Kohn	M. E. Omeilia	S.Vaa	J. Roberson	L. Roberts	R. Bishop	S. Yaich	T. Bogenschutz	M. Hill	J. H. Schulz	A. Berner		
2003	J. Gammonley	H. Hands	T.C. Hinz	P.J. Gabig	T. Mitchellson	S.C. Kohn	M. E. Omeilia	S.Vaa	J. Roberson	L. Roberts	R. Bishop	S. Yaich	T. Bogenschutz	M. Hill	J. H. Schulz	A. Berner		
2004	J. Gammonley	H. Hands	T.C. Hinz	P.J. Gabig	T. Mitchellson	S.C. Kohn	M. E. Omeilia	S.Vaa	J. Roberson	L. Roberts	R. Bishop	S. Yaich	T. Bogenschutz	M. Hill	J. H. Schulz	A. Berner		
2005	J. Gammonley	H. Hands	T.C. Hinz	P.J. Gabig	T. Mitchellson	S.C. Kohn	M. E. Omeilia	S.Vaa	J. Roberson	L. Roberts	R. Bishop	S. Yaich	T. Bogenschutz	M. Hill	J. H. Schulz	A. Berner		
2006	J. Gammonley	H. Hands	T.C. Hinz	P.J. Gabig	T. Mitchellson	S.C. Kohn	M. E. Omeilia	S.Vaa	J. Roberson	L. Roberts	R. Bishop	S. Yaich	T. Bogenschutz	M. Hill	J. H. Schulz	A. Berner		

The name and composition of the CMOTC was changed in 1999 to Central Flyway Webless Migratory Game Bird Technical Committee: Voting membership restricted to CF States/Provinces.

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USFWS FLYWAY REPRESENTATIVES

1952-2006

**ATLANTIC
FLYWAY**

**MISSISSIPPI
FLYWAY**

**CENTRAL
FLYWAY**

**PACIFIC
FLYWAY**

Year	Representative	Representative	Representative	Representative
1949				Leo K. Couch
1950				Leo K. Couch
1951				Leo K. Couch
1952	C. Edward Addy	vacant	vacant	John C. Chattin
1953	C. Edward Addy	Arthur S. Hawkins	Cecil S. Williams	John C. Chattin
1954	C. Edward Addy	Arthur S. Hawkins	Cecil S. Williams	John C. Chattin
1955	C. Edward Addy	Arthur S. Hawkins	Cecil S. Williams	John C. Chattin
1956	C. Edward Addy	Arthur S. Hawkins	Cecil S. Williams	John C. Chattin
1957	C. Edward Addy	Arthur S. Hawkins	Cecil S. Williams	John C. Chattin
1958	C. Edward Addy	Arthur S. Hawkins	Raymond J. Buller	John C. Chattin
1959	C. Edward Addy	Arthur S. Hawkins	Raymond J. Buller	John C. Chattin
1960	C. Edward Addy	Arthur S. Hawkins	Raymond J. Buller	John C. Chattin
1961	C. Edward Addy	Arthur S. Hawkins	Raymond J. Buller	John C. Chattin
1962	C. Edward Addy	Arthur S. Hawkins	Raymond J. Buller	John C. Chattin
1963	C. Edward Addy	Arthur S. Hawkins	Raymond J. Buller	John C. Chattin
1964	C. Edward Addy	Arthur S. Hawkins	Raymond J. Buller	John C. Chattin
1965	C. Edward Addy	Arthur S. Hawkins	Raymond J. Buller	John C. Chattin
1966	C. Edward Addy	Arthur S. Hawkins	Raymond J. Buller	John C. Chattin
1967	C. Edward Addy	Arthur S. Hawkins	Raymond J. Buller	John C. Chattin
1968	C. Edward Addy	Arthur S. Hawkins	Raymond J. Buller	John C. Chattin
1969	C. Edward Addy	Arthur S. Hawkins	Raymond J. Buller	John C. Chattin
1970	C. Edward Addy	Arthur S. Hawkins	Raymond J. Buller	John C. Chattin
1971	C. Edward Addy	Arthur S. Hawkins	Raymond J. Buller	John C. Chattin
1972	C. Edward Addy	vacant	Raymond J. Buller	John C. Chattin
1973	vacant	Kenneth E. Gamble	Raymond J. Buller	John C. Chattin
1974	Warren W. Blandin	Kenneth E. Gamble	Raymond J. Buller	John C. Chattin
1975	Warren W. Blandin	Kenneth E. Gamble	Harvey W. Miller	John C. Chattin
1976	Warren W. Blandin	Kenneth E. Gamble	Harvey W. Miller	John C. Chattin
1977	Warren W. Blandin	Kenneth E. Gamble	Harvey W. Miller	James C. Bartonek
1978	Warren W. Blandin	Kenneth E. Gamble	Harvey W. Miller	James C. Bartonek
1979	Warren W. Blandin	Kenneth E. Gamble	Harvey W. Miller	James C. Bartonek
1980	Warren W. Blandin	Kenneth E. Gamble	Harvey W. Miller	James C. Bartonek
1981	Warren W. Blandin	Kenneth E. Gamble	Harvey W. Miller	James C. Bartonek
1982	Warren W. Blandin	Kenneth E. Gamble	Harvey W. Miller	James C. Bartonek
1983	vacant	Kenneth E. Gamble	Harvey W. Miller	James C. Bartonek
1984	Jerome R. Serie	Kenneth E. Gamble	Harvey W. Miller	James C. Bartonek
1985	Jerome R. Serie	Kenneth E. Gamble	Harvey W. Miller	James C. Bartonek
1986	Jerome R. Serie	Kenneth E. Gamble	Harvey W. Miller	James C. Bartonek
1987	Jerome R. Serie	Kenneth E. Gamble	Harvey W. Miller	James C. Bartonek
1988	Jerome R. Serie	Kenneth E. Gamble	Wilbur N. Ladd	James C. Bartonek
1989	Jerome R. Serie	Kenneth E. Gamble	Wilbur N. Ladd	James C. Bartonek
1990	Jerome R. Serie	Kenneth E. Gamble	David E. Sharp	James C. Bartonek
1991	Jerome R. Serie	Kenneth E. Gamble	David E. Sharp	James C. Bartonek
1992	Jerome R. Serie	Kenneth E. Gamble	David E. Sharp	James C. Bartonek
1993	Jerome R. Serie	Kenneth E. Gamble	David E. Sharp	James C. Bartonek
1994	Jerome R. Serie	Kenneth E. Gamble	David E. Sharp	James C. Bartonek
1995	Jerome R. Serie	Kenneth E. Gamble	David E. Sharp	James C. Bartonek
1996	Jerome R. Serie	Kenneth E. Gamble	David E. Sharp	Robert E. Trost
1997	Jerome R. Serie	Kenneth E. Gamble	David E. Sharp	Robert E. Trost
1998	Jerome R. Serie	Kenneth E. Gamble	David E. Sharp	Robert E. Trost
1999	Jerome R. Serie	Kenneth E. Gamble	David E. Sharp	Robert E. Trost
2000	Jerome R. Serie	Kenneth E. Gamble	David E. Sharp	Robert E. Trost
2001	Jerome R. Serie	Kenneth E. Gamble	David E. Sharp	Robert E. Trost
2002	Jerome R. Serie	Kenneth E. Gamble	David E. Sharp	Robert E. Trost
2003	Jerome R. Serie	Kenneth E. Gamble	David E. Sharp	Robert E. Trost
2004	Jerome R. Serie	Kenneth E. Gamble	David E. Sharp	Robert E. Trost
2005	Jerome R. Serie	Kenneth E. Gamble	David E. Sharp	Robert E. Trost
2006	Jerome R. Serie	Kenneth E. Gamble	David E. Sharp	Robert E. Trost

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CENTRAL FLYWAY NONGAME BIRD TECHNICAL COMMITTEE

2006

	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	FWS
2006	D. Klute	H. Hands	A. Puchniak	J. Jorgensen	S. Williams	S. Hagen	-	E. Dowd Stukel	D. Schlitter	A. Cerovski	S. Jones

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Gay Simpson Award Recipients

This award is offered by the Central Flyway Council in memory of Gay Simpson whose abbreviated life was highlighted by perceptive and aggressive waterfowl research and management. It is presented to South Dakota State University students who have demonstrated outstanding research in the ecology or management of Central Flyway waterfowl or their habitats.

Recipient	Current Position
1990 Kent Luttschwager	ND Game and Fish, Williston
1991 Cathy Henry	USFWS, upper MS River National Wildlife and Fish Refuge, Marquette, IA
1992 Dr. Charles Dieter	Professor, SDSU, Biology and Microbiology, Brookings
1993 Lisa Peskin Sausville	Sausville, Federal Refuge, VT
1994 Mark Humpert	Wildlife Diversity Program Manager, NE Game and Parks Commission, Lincoln
1995 Dr. Rex Johnson	USFWS, Fergus Falls, MN
1996 Dr. Jeff Gleason	Wildlife Biologist, Minerals Management Service, Anchorage, AK
1997 Dr. Dave Naugle	Professor, The University of MT, Missoula
1998 Dr. Diane Granfors	USFWS, Fergus Falls, MN
1999 Tate Fischer	Fire Management Officer, Necedah NWR, WI
2000 Dr. Joshua Stafford	Bellrose Waterfowl Research Center, Havana, IL
2001 Shawn May	USFWS, Detroit Lakes, MN
2002 Kent Werlin	Habitat Biologist, Nez Perce Tribe, Fisheries/Wildlife Division, ID
2003 Bryan Rieger	Systems Software Specialist, SDSU, Admin. and Research Computing, Brookings
2004 Rachel Mockler	Private Lands Biologist, Leopold WMD, Portage, WI
2005 Kimberly Strand	For summer 2006 – Voyageurs National Park, International Falls, MN