CENTRAL FLYWAY

HARVEST AND POPULATION SURVEY DATA BOOK

2019

compiled by:

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Suggested Citation: Dubovsky, J. A., compiler. 2019. Central Flyway harvest and population survey data book 2019. U.S. Fish and Wildlife Service, Lakewood CO.

CENTRAL FLYWAY

1948-2019

72 YEARS OF MIGRATORY BIRD CONSERVATION

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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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		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		381,921
1968	17,645	3,649	9,022	9,558	37,110	139,182	38,712	43,596	53,623	33,301	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		388,679
1970	21,347	3,962	9,926	10,293	46,009	135,231	39,230	47,722	59,986	31,350	N/A	N/A		405,056
1971	23,460	4,513	11,381	11,146	50,276	133,563	40,960	49,448	62,902	30,225	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		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		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		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
1976	29,621	5,756	13,326	13,743	66,453	143,816	46,681	61,669	75,739	26,561	893	513		484,771
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
1978	37,297	6,396	16,297	15,249	74,745	159,698	50,169	57,958	77,117	28,561	821	638		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
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
1981	31,401	5,611	14,130	12,287	75,178	141,677	46,528	42,856	66,163	28,243	764	514		465,352
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
1983	30,977	5,898	13,468	12,758	67,700	139,569	40,443	45,383	61,742	24,170	750	474		443,332
1984	31,309	5,525	12,896	11,486	65,308	140,521	35,238	37,720	51,717	21,892	850	496		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
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
1987	21,080	4,959	10,299	9,897	55,124	122,472	30,207	29,930	40,122	16,259	523	391		341,263
1988	23,655	4,906	10,264	10,646	57,206	117,310	25,108	23,258	34,513	15,595	496	367		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
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
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
1992	20,317	3,753	9,193	9,338	49,267	103,403	20,048	20,620	28,059	12,429	348	256		277,031
1993	20,585	3,609	8,988	9,008	47,675	95,824	19,199	19,771	26,787	11,818	327	287		263,878
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
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
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
1997	14,289	3,051	7,731	7,573	31,435	72,522	18,918	20,109	26,863	10,186	278	268		213,223
1998	13,101	2,946	7,681	7,095	30,115	70,427	18,494	21,822	22,239	9,816	286	231		204,253
1999	13,120	2,671	7,411	6,828	31,960	67,084	17,524	21,685	21,415	9,317	292	231		199,538
2000	12,220	2,805	7,072	6,402	31,375	63,678	15,856	21,962	21,792	9,010	272	224	2	192,668
2001	17,185	2,445	6,647	5,982	30,480	58,483	15,059	18,425	19,543	8,200	224	251	24	182,948
2002	16,069	2,342	6,317	5,943	29,994	56,677	14,905	17,339	17,815	7,480	250	217	28	175,376
2003	15,756	2,316	5,926	6,069	30,450	56,953	15,132	18,208	18,373	6,541	244	159	12	176,139
2004	14,821	2,124	5,727	5,715	30,065	55,570	14,292	18,339	18,782	6,409	192	182	24	172,242
2005	13,574	2,012	5,485	5,556	28,877	53,164	13,892	18,611	19,340	6,187	193	204	30	167,125
2006	14,224	1,474	5,382	5,331	28,035	54,404	14,246	18,647	19,403	5,833	202	167	20	167,368
2007	15,680	1,620	5,467	5,406	28,836	53,667	14,089	19,381	20,460	6,130	186	207	22	171,151
2008	16,155	1,578	5,573	5,531	29,767	55,039	13,648	18,082	20,463	6,371	190	183	26	172,606
2009	15,686	1,687	5,555	5,564	29,700	55,624	12,708	17,898	19,378	6,639	217	190	34	170,880
2010	15,762	1,775	5,704	5,550	30,599	55,674	12,761	17,995	19,939	6,442	247	200	52	172,700
2011	15,826	1,761	5,619	5,595	30,866	56,314	11,896	17,533	21,433	6,314	251	234	26	173,668
2012	17,449	1,784	5,794	5,818	31,352	57,426	12,421	20,112	21,866	6,800	261	254	38	181,375
2013	17,548	1,742	5,825	6,182	31,943	62,009	12,765	21,376	22,736	7,108	287	259	44	189,824
2014	15,957	1,768	5,289	5,969	32,506	61,539	12,219	20,518	23,429	7,474	391	281	54	187,394
2015	15,109	1,704	5,096	5,566	31,265	59,975	12,386	21,099	25,096	7,558	341	301	63	185,559
2016	14,695	1,681	5,109	5,686	30,902	58,105	11,721	20,756	25,394	7,076	329	286	69	181,809
2017	13,825	1,213	4,726	5,077	30,414	53,232	8,165	19,862	24,261	6,883	284	297	49	168,288
2018	12,871	1,193	4,601	5,049	29,803	51,502	8,504	19,701	24,416	7,029	266	275	63	165,273
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	5,214	13,578	12,710	61,596	143,727	43,568	54,354	70,058	29,149	781	525		463,761
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
1990-99	18,392	3,503	8,837	8,649	42,039	88,945	19,712	21,067	26,623	11,198	329	273		249,566
2000-09	15,137	2,040	5,915	5,750	29,758	56,326	14,383	18,689	19,535	6,880	217	198	36	174,850
2010-18	15,449	1,625	5,307	5,610	31,072	57,308	11,426	19,884	23,174	6,965	295	265	51	178,432
1966-2018	20,874	3,575	9,150	8,891	45,342	99,996	26,293	31,621	39,807	16,577	434	325	36	302,784

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

YR	CO	KS	MT	NM	ND	OK	SD	TX	WY	CF TOTAL	MN
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	46,845	
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 [3]	1,186	619	37,558 [2]	54	55,384	
2003 [1]	5,854 [2]	1,206	273	471	6,030 [3]	1,000	563	43,199 [2]	50	58,646	
2004 [1]	5,784 [2]	1,180 [3]	308	548	5,788 [3]	780 [3]	307	52,161 [2]	61	66,917	
2005 [1]	5,766 [2]	805 [3]	281	494	7,441 [3]	698 [3]	490	51,511 [2]	68	67,554	
2006 [1]	4,792 [2]	826 [3]	265	512 [4]	7,410 [3]	615 [3]	445 [5]	70,968 [2]	78	85,911	
2007 [1]	4,931 [2]	598 [3]	238	480 [4]	7,442 [3]	731 [3]	390 [5]	101,382 [2]	58	116,250	
2008 [1]	5,772 [2]	655 [3]	272	677 [4]	6,501 [3]	736 [3]	398 [5]	122,553 [2]	73	137,637	
2009 [1]	4,038 [2]	540 [3]	139	862 [4]	7,774 [3]	1,029 [3]	693 [5]	11,332 [5]	62	26,469	
2010 [1]	4,280 [2]	508 [3]	283	701 [4]	8,375 [3]	1,055 [3]	410 [5]	12,560 [5]	86	28,258	1,954
2011 [1]	783 [2]	801 [3]	311	575 [4]	8,024 [3]	1,104 [3]	356 [5]	13,905 [5]	86	25,945	1,342
2012 [1]	801 [2]	571 [3]	186	859 [4]	8,519 [3]	451 [3]	343 [5]	14,083 [5]	102	25,915	1,032
2013 [1]	856 [2]	735 [3]	288	404 [4]	9,085 [3]	2,278 [3]	421 [5]	18,369 [5]	106	32,542	1,086
2014 [1]	848 [2]	787 [3]	356	368 [4]	4,692 [3]	660 [3]	390 [5]	20,105 [5]	433	28,639	1,216
2015 [1]	787 [2]	1,040 [3]	404	365 [4]	4,543 [3]	510 [3]	--- [6]	22,033 [5]	454	30,136	1,199
2016 [1]	841 [2]	1,055 [3]	376	416 [4]	3,956 [3]	559 [3]	171 [5]	23,962 [5]	569	31,905	1,139
2017 [1]	913 [2]	1,075 [3]	604	534 [4]	4,006 [3]	714 [3]	224 [5]	26,312 [5]	646	35,028	1,125
2018 [1]	954 [2]	2,678 [3]	676	2,413 [4]	4,102 [3]	642 [3]	237 [5]	29,668 [5]	392	41,762	1,091
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	28,100	
2000-09	5,362	955	262	554	7,216	942	531	58,479	63	74,364	
2010-2018	1,229	1,028	387	737	6,145	886	319	20,111	319	31,126	1,243
1975-2018	1,946	954	252	700	6,205	1,008	481 [5]	23,550	103	34,798	

[1] Preliminary

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[2] Harvest Information Program (HIP) or a point-of-sale electronic record (without cost) used to identify crane hunters in lieu of a special sandhill crane hunting permit

[3] States began charging a fee for crane hunting permits which reduces the number of permits issued to hunters that only occasionally come into contact with sandhill cranes.

[4] NM uses a combination of electronic and paper permits.

[5] SD uses a special question in their HIP questionnaire to identify sandhill crane hunters; TX hunters can only obtain crane permits in selected locations.

TUNDRA SWAN HUNTING PERMITS ISSUED FOR THE EASTERN AND WESTERN POPULATIONS

	EASTERN POPULATION						WESTERN POPULATION					
YR	MT	ND	SD	NC	VA	TOTAL	UT	NV	MT	AK	TOTAL	TOTAL
1962							1,000				1,000	1,000
1963							1,000				1,000	1,000
1964							1,000				1,000	1,000
1965							995				995	995
1966							1,000				1,000	1,000
1967							1,000				1,000	1,000
1968							1,000				1,000	1,000
1969							2,500	500			3,000	3,000
1970							2,500	500	500		3,500	3,500
1971							2,495	500	500		3,495	3,495
1972							2,500	500	500		3,500	3,500
1973							2,500	500	500		3,500	3,500
1974							2,500	500	500		3,500	3,500
1975							2,500	500	500		3,500	3,500
1976							2,500	500	500		3,500	3,500
1977							2,488	500	500		3,488	3,488
1978							2,500	500	500		3,500	3,500
1979							2,500	500	500		3,500	3,500
1980							2,500	500	500		3,500	3,500
1981							2,500	500	500		3,500	3,500
1982							2,500	500	500		3,500	3,500
1983	109					109	2,500	650	500		3,650	3,759
1984	108			1,000		1,108	2,500	650	500		3,650	4,758
1985	120			6,000		6,120	2,488	650	500		3,638	9,758
1986	170			6,000		6,170	2,500	608	500		3,608	9,778
1987	171			5,968		6,139	2,499	594	500		3,593	9,732
1988	99	400		5,995	600	7,094	2,500	260	500	112	3,372	10,466
1989	167	1,000		5,444	600	7,211	2,500	324	500	130	3,454	10,665
1990	173	1,000	500	5,989	600	8,262	2,500	297	500	81	3,378	11,640
1991	204	2,000	1,000	6,000	600	9,804	2,500	258	500	84	3,342	13,146
1992	217	2,000	1,502	5,961	600	10,280	2,500	100	500	89	3,189	13,469
1993	212	2,000	1,500	6,000	400	10,112	2,500	205	500	170	3,375	13,487
1994	232	2,000	1,500	6,000	600	10,332	2,500	206	500	216	3,422	13,754
1995	291	2,000	1,500	6,000	600	10,391	2,750	383	500	210	3,843	14,234
1996	372	2,000	1,235	5,000	600	9,207	2,750	376	500	193	3,819	13,026
1997	364	2,000	1,077	5,000	600	9,041	2,750	381	500	201	3,832	12,873
1998	429	2,000	1,216	5,000	600	9,245	2,750	492	500	192	3,934	13,179
1999	432	2,000	863	5,000	600	8,895	2,750	518	500	227	3,995	12,890
2000	434	2,000	850	5,000	600	8,884	2,000	493	500	164	3,157	12,041
2001	398	2,000	983	5,000	600	8,981	2,000	308	500	255	3,063	12,044
2002	393	2,000	1,060	5,000	600	9,053	1,998	264	500	252	3,014	12,067
2003	423	2,200	1,002	5,000	600	9,225	2,000	298	500	215	3,013	12,238
2004	320	2,200	820	5,000	600	8,940	2,000	330	500	175	3,005	11,945
2005	348	2,200	811	5,000	600	8,959	1,997	370	500	176	3,043	12,002
2006	340	2,200	811	5,000	600	8,951	1,994	605	500	168	3,267	12,218
2007	323	2,200	1,064	5,000	600	9,187	2,000	650	500	162	3,312	12,499
2008	307	2,200	958	5,000	600	9,065	2,000	535	500	182	3,217	12,282
2009	327	2,200	1,242	5,000	600	9,369	2,000	472	500	174	3,146	12,515
2010	369	2,200	1,234	5,000	600	9,403	2,000	469	500	212	3,181	12,584
2011	320	2,200	1,156	5,000	600	9,276	2,000	527	500	228	3,255	12,531
2012	338	2,200	1,266	5,000	600	9,404	2,000	650	500	165	3,315	12,719
2013	354	2,200	1,259	5,000	600	9,413	2,000	488	500	189	3,177	12,590
2014	401	2,200	1,216	5,000	600	9,417	2,000	234	500	159	2,893	12,310
2015	432	2,200	1,299	5,000	600	9,531	2,000	105	500	127	2,732	12,263
2016	410	2,200	1,083	5,000	600	9,293	2,000	404	500	114	3,018	12,311
2017	338	2,700	1,068	6,250	750	11,106	2,000	579	500	111	3,190	14,296
2018	354	2,700	1,189	6,250	750	11,243	2,000	650	500	109	3,259	14,502

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WATERFOWL AND CRANE HUNTER ACTIVITY AND SUCCESS

ESTIMATES OF ACTIVE DUCK HUNTERS BY STATE OF HARVEST (Harvest Information Program)[1]

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	17,533	16,344	11,044	18,392	5,054	36,414	10,781	22,411	139,853	4,248
2002	12,733	15,426	14,742	16,976	4,385	34,385	14,691	19,158	103,372	4,413
2003 [2]	13,400	15,100	14,200	18,500	3,900	37,100	13,800	18,200	61,100	4,300
2004 [2]	13,600	19,200	14,400	16,800	3,300	36,900	15,300	18,800	84,900	3,400
2005 [2]	12,300	11,600	12,100	15,600	2,900	36,300	16,100	15,500	91,500	3,600
2006 [2]	12,416	12,663	12,941	15,992	2,424	29,691	14,236	15,333	84,228	3,960
2007 [2]	11,882	13,021	11,258	14,752	2,820	32,192	19,437	14,459	80,213	4,587
2008 [2]	13,750	16,531	12,553	14,517	2,552	26,185	14,194	14,205	72,720	3,630
2009 [2]	13,257	14,259	11,532	12,900	1,784	30,604	11,692	16,638	67,382	4,148
2010 [2]	9,094	13,053	10,157	13,394	2,617	24,760	13,595	16,521	66,982	3,326
2011 [2]	12,151	13,534	11,647	14,656	2,945	32,005	13,692	16,080	74,700	4,018
2012 [2]	11,081	12,739	13,553	13,626	3,328	31,380	13,892	14,797	74,727	3,412
2013 [2]	11,894	16,847	10,647	12,977	2,131	32,071	18,768	13,890	46,423	4,724
2014 [2]	12,977	17,684	17,522	12,021	5,363	37,275	17,287	15,614	86,253	3,464
2015 [2]	11,009	19,582	16,922	12,065	2,078	34,649	16,235	13,432	61,208	3,192
2016 [2]	10,323	14,000	12,279	12,344	4,169	33,495	19,411	10,634	79,902	3,106
2017 [2]	11,655	17,857	12,437	10,686	3,011	29,428	15,794	12,689	86,200	4,097
2018 [2]	11,881	18,065	14,645	11,723	3,284	33,750	20,039	15,554	74,279	3,692
AVERAGE:										
1999-2018	12,547	15,465	12,909	14,866	3,167	32,999	15,312	16,316	81,892	3,911
% CHANGE FROM:										
Prev. Year	2%	1%	18%	10%	9%	15%	27%	23%	-14%	-10%
Average	-5%	17%	13%	-21%	4%	2%	31%	-5%	-9%	-6%

[1] Estimates for NM, CO, WY, and MT are statewide.
[2] Preliminary

ESTIMATES OF TOTAL DUCK HUNTER DAYS AFIELD BY STATE OF HARVEST (Harvest Information Program)[1]

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC [3] FLYWAY	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	8,353,600
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	1,251,200	8,073,600
2001	114,178	100,989	(72,935)	145,880	29,882	188,020	67,697	150,044	720,993	26,570	1,544,253	1,187,400	4,265,100	1,188,200	8,184,953
2002	67,767	102,744	(79,809)	136,112	24,252	179,029	107,583	123,655	539,665	25,951	1,306,759	1,162,300	4,004,600	1,163,600	7,637,259
2003 [2]	86,000	107,600	(70,600)	135,000	30,900	197,700	103,500	119,400	379,200	23,000	1,182,300	1,106,900	4,033,400	1,118,500	7,441,100
2004 [2]	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 [2]	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	6,479,200
2006 [2]	64,993	85,416	(60,018)	111,456	15,611	149,988	110,707	92,213	424,851	22,485	1,077,721	1,046,183	3,364,288	1,300,253	6,788,445
2007 [2]	66,072	82,149	(57,960)	121,493	18,665	157,619	154,609	84,346	418,536	23,876	1,127,364	1,076,255	3,479,080	1,295,713	6,978,412
2008 [2]	72,852	106,154	(56,644)	104,014	14,836	119,806	98,139	79,959	331,573	18,768	946,103	1,001,258	3,410,043	1,328,957	6,686,361
2009 [2]	79,367	92,081	(50,491)	94,087	17,027	165,853	87,395	84,731	410,219	22,253	1,053,013	1,104,107	3,455,486	1,159,302	6,771,907
2010 [2]	51,168	79,064	(49,734)	98,535	15,860	115,550	89,935	71,455	355,088	18,676	895,331	1,072,404	3,404,160	1,218,952	6,590,847
2011 [2]	64,567	96,138	(60,584)	124,751	16,669	162,591	107,778	85,907	480,070	19,611	1,158,083	1,091,364	3,637,170	1,187,091	7,073,708
2012 [2]	57,407	90,851	(69,767)	93,088	16,978	160,182	112,166	85,317	513,823	20,800	1,150,612	1,104,174	3,505,200	1,283,602	7,043,588
2013 [2]	77,094	105,344	(63,643)	101,187	13,511	161,165	127,799	83,699	360,610	26,643	1,057,052	1,036,149	3,107,196	996,539	6,196,936
2014 [2]	67,516	101,802	(79,788)	81,859	28,728	177,482	123,559	68,758	465,903	18,368	1,133,975	924,229	2,981,858	931,605	5,971,667
2015 [2]	67,860	98,266	(87,122)	87,798	9,696	179,141	103,738	78,058	309,547	15,877	949,981	950,910	2,702,691	892,644	5,496,226
2016 [2]	60,635	87,293	(68,161)	81,311	10,993	159,547	123,721	48,131	385,806	13,071	970,508	1,006,644	2,647,195	933,040	5,557,387
2017 [2]	60,228	66,103	(57,483)	84,930	17,662	143,533	82,606	52,825	391,751	21,760	921,398	912,253	2,544,565	1,068,673	5,446,889
2018 [2]	59,158	74,854	(72,446)	78,980	24,167	160,407	98,280	61,786	358,203	15,555	931,390	977,418	2,452,753	1,129,913	5,491,474
AVERAGE:															
1999-2018	71,468	96,137		110,104	19,322	167,441	106,826	91,164	452,257	21,913	1,136,632	1,053,832	3,425,589	1,163,439	6,779,493
% CHANGE FROM:															
Prev. Year	-2%	13%	26%	-7%	37%	12%	19%	17%	-9%	-29%	1%	7%	-4%	6%	1%
Average	-17%	-22%		-28%	25%	-4%	-8%	-32%	-21%	-29%	-18%	-7%	-28%	-3%	-19%

[1] Estimates 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.
[2] Preliminary
[3] Pacific Flyway total includes Alaska

AVERAGE SEASONAL DUCK HUNTER DAYS AFIELD BY STATE OF HARVEST (Harvest Information Program)[1]

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	6.51	6.18	6.60	7.93	5.91	5.16	6.28	6.70	5.16	6.25
2002	5.32	6.66	5.41	8.02	5.53	5.21	7.32	6.45	5.22	5.88
2003 [2]	6.42	7.13	4.97	7.30	7.92	5.33	7.50	6.56	6.21	5.35
2004 [2]	6.27	6.46	4.97	7.68	7.76	5.26	8.52	5.86	5.85	9.21
2005 [2]	5.42	7.56	5.31	7.11	5.76	5.14	6.69	5.56	5.34	5.47
2006 [2]	5.23	6.75	4.64	6.97	6.44	5.05	7.78	6.01	5.04	5.68
2007 [2]	5.56	6.31	5.15	8.24	6.62	4.90	7.95	5.83	5.22	5.20
2008 [2]	5.30	6.42	4.51	7.16	5.81	4.58	6.91	5.63	4.56	5.17
2009 [2]	5.99	6.46	4.38	7.29	9.54	5.42	7.47	5.09	6.09	5.37
2010 [2]	5.63	6.06	4.90	7.36	6.06	4.67	6.62	4.33	5.30	5.62
2011 [2]	5.31	7.10	5.20	8.51	5.66	5.08	7.87	5.34	6.43	4.88
2012 [2]	5.18	7.13	5.15	6.83	5.10	5.10	8.07	5.77	6.88	6.10
2013 [2]	6.48	6.25	5.98	7.80	6.34	5.03	6.81	6.03	7.77	5.64
2014 [2]	5.20	5.76	4.55	6.81	5.36	4.76	7.15	4.40	5.40	5.30
2015 [2]	6.16	5.02	5.15	7.28	4.67	5.17	6.39	5.81	5.06	4.97
2016 [2]	5.87	6.24	5.55	6.59	2.64	4.76	6.37	4.53	4.83	4.21
2017 [2]	5.17	3.70	4.62	7.95	5.87	4.88	5.23	4.16	4.54	5.31
2018 [2]	4.98	4.14	4.95	6.74	7.36	4.75	4.90	3.97	4.82	4.21

[1] Estimates for NM, CO, WY, and MT are statewide.
[2] Preliminary

AVERAGE SEASONAL DUCK BAG PER HUNTER BY STATE OF HARVEST (Harvest Information Program)[1]

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	7.8	11.1	11.2	11.8	12.2	13.5	15.3	13.1	12.1	10.1
2002	7.8	13.9	8.6	13.1	11.4	15.0	15.8	13.1	9.5	9.9
2003 [2]	10.3	15.5	9.4	12.5	15.6	13.4	16.3	14.0	13.4	9.2
2004 [2]	9.0	14.2	8.4	9.9	10.6	14.7	22.8	11.4	10.7	12.6
2005 [2]	8.1	13.7	9.6	10.6	11.4	14.3	17.8	11.6	13.7	9.9
2006 [2]	8.7	12.8	8.7	10.6	19.3	12.8	21.2	12.6	12.4	11.4
2007 [2]	9.5	12.7	10.6	14.1	14.7	11.6	23.6	12.7	13.4	10.9
2008 [2]	8.1	13.9	9.5	14.3	13.3	11.0	17.7	11.9	10.5	9.2
2009 [2]	9.1	13.6	9.1	12.2	18.9	15.5	22.5	13.5	14.5	10.7
2010 [2]	8.6	14.3	10.6	11.5	13.4	13.0	18.0	11.3	14.7	10.8
2011 [2]	8.7	15.0	8.7	15.2	10.7	14.4	22.2	14.1	18.6	9.1
2012 [2]	7.9	13.7	8.9	11.4	9.0	14.6	24.6	14.9	20.0	12.2
2013 [2]	10.5	15.8	12.6	14.7	19.0	14.6	19.8	14.5	22.6	11.2
2014 [2]	8.1	12.9	10.2	12.6	8.7	14.6	18.3	11.2	14.1	10.9
2015 [2]	10.2	12.1	10.9	13.8	11.7	14.7	16.1	13.5	12.0	9.7
2016 [2]	8.4	12.8	12.1	11.3	3.9	13.1	13.3	11.7	14.6	8.5
2017 [2]	8.0	8.7	8.6	12.9	14.1	14.5	12.5	10.2	14.0	10.1
2018 [2]	7.4	9.7	11.6	10.6	11.5	14.0	10.9	9.8	12.9	9.0

[1] Estimates for NM, CO, WY, and MT are statewide.
[2] Preliminary

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ESTIMATES OF ACTIVE GOOSE HUNTERS BY STATE OF HARVEST (Harvest Information Program)[1]

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	16,790	15,715	10,623	18,056	3,393	26,500	7,818	26,283	76,647	3,720
2002	16,276	15,248	13,848	15,290	3,367	23,626	7,335	22,398	66,583	4,034
2003 [2]	15,900	16,100	14,000	18,300	2,500	27,600	8,500	20,100	47,000	4,300
2004 [2]	14,700	15,500	12,800	15,100	2,300	24,700	10,000	19,200	47,400	3,600
2005 [2]	14,600	12,000	9,700	15,400	2,000	26,500	9,900	15,400	58,800	4,000
2006 [2]	12,993	12,038	11,194	13,673	1,816	23,982	9,007	17,527	56,512	3,903
2007 [2]	14,642	14,294	11,932	12,460	1,711	23,123	10,843	14,010	63,638	3,927
2008 [2]	16,009	14,692	10,206	14,522	1,488	21,322	7,315	15,760	49,354	3,692
2009 [2]	15,203	12,213	12,056	11,828	961	20,707	7,616	14,558	36,708	3,618
2010 [2]	10,651	10,700	10,689	13,778	1,722	21,609	6,526	14,174	45,974	3,845
2011 [2]	11,962	12,900	8,949	12,126	2,490	24,507	7,460	11,974	42,256	3,685
2012 [2]	13,912	11,207	14,097	14,340	2,863	25,165	7,715	14,726	31,251	3,768
2013 [2]	14,277	15,543	6,608	13,370	2,027	24,815	9,886	14,280	30,347	4,629
2014 [2]	14,568	13,716	12,533	13,186	2,974	26,690	9,402	12,101	47,485	3,729
2015 [2]	12,240	14,099	12,221	10,783	1,328	28,167	7,932	9,871	29,303	3,209
2016 [2]	15,209	15,079	8,118	13,113	1,816	24,953	7,685	12,823	45,732	3,870
2017 [2]	14,044	12,328	9,681	12,970	1,563	26,724	7,880	15,230	48,202	4,207
2018 [2]	12,539	13,652	9,538	11,087	3,178	23,284	8,995	14,294	43,644	3,741
AVERAGE:										
1999-2018	14,511	13,936	11,090	14,414	2,195	25,029	8,556	16,550	50,087	3,869
% CHANGE FROM:										
Prev. Year	-11%	11%	-1%	-15%	103%	-13%	14%	-6%	-9%	-11%
Average	-14%	-2%	-14%	-23%	45%	-7%	5%	-14%	-13%	-3%

[1] Estimates for NM, CO, WY, and MT are statewide.
[2] Preliminary

ESTIMATES OF TOTAL GOOSE HUNTER DAYS AFIELD BY STATE OF HARVEST (Harvest Information Program)[1]

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC [3] FLYWAY	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	104,290	89,663	(59,640)	148,189	14,621	131,727	30,499	172,841	217,387	22,274	931,491	855,800	2,157,800	651,900	4,596,991
2002	91,827	79,771	(66,526)	128,990	19,605	118,447	36,672	148,618	192,924	22,180	839,034	852,900	2,415,900	625,000	4,732,834
2003 [2]	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 [2]	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 [2]	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
2006 [2]	76,791	60,994	(48,671)	99,211	5,778	110,170	49,321	106,573	193,737	20,099	722,675	691,505	1,950,358	642,559	4,007,097
2007 [2]	84,178	79,723	(51,146)	106,751	6,625	99,258	49,448	82,987	197,414	20,324	726,709	801,635	1,807,690	595,597	3,931,631
2008 [2]	105,484	83,525	(39,564)	114,958	5,612	94,457	41,584	86,638	170,690	20,327	723,277	797,235	1,733,803	597,100	3,851,415
2009 [2]	84,847	78,955	(48,432)	95,594	4,703	98,155	33,183	82,845	108,890	16,979	604,153	804,520	1,773,921	607,189	3,789,783
2010 [2]	60,298	56,936	(42,167)	116,776	5,630	90,410	29,129	69,216	152,364	20,027	600,785	688,930	1,579,897	583,750	3,453,361
2011 [2]	67,759	75,795	(40,155)	112,846	15,117	109,313	29,642	66,827	192,755	17,913	687,965	656,953	1,667,331	561,512	3,573,761
2012 [2]	84,907	73,084	(70,698)	104,267	13,749	113,170	37,363	82,889	83,923	19,203	612,554	695,494	1,520,908	629,048	3,458,004
2013 [2]	89,643	88,386	(30,910)	95,928	8,435	117,463	49,399	92,625	90,508	27,570	659,957	651,718	1,497,469	492,294	3,301,438
2014 [2]	73,885	80,287	(56,009)	107,979	9,518	123,097	50,175	55,769	155,536	17,446	673,692	611,930	1,419,846	581,571	3,287,039
2015 [2]	58,070	58,244	(61,868)	90,318	4,549	129,667	40,397	61,049	93,334	15,910	551,538	601,000	1,628,168	473,003	3,253,709
2016 [2]	85,686	95,005	(36,324)	96,896	6,116	125,165	50,373	57,608	143,514	16,809	677,172	736,220	1,734,737	473,171	3,621,300
2017 [2]	74,581	57,878	(50,331)	108,377	6,212	118,155	27,000	77,686	141,092	23,177	634,158	595,313	1,590,027	566,480	3,385,978
2018 [2]	70,136	48,522	(40,434)	98,046	9,538	104,422	26,000	69,066	166,610	14,775	607,115	513,548	1,334,291	575,798	3,030,752
AVERAGE:															
1999-2018	85,289	80,563		115,271	9,585	117,609	40,144	98,402	164,614	20,416	731,894	694,500	1,833,312	605,169	3,864,875
% CHANGE FROM:															
Prev. Year	-6%	-16%	-20%	-10%	54%	-12%	-4%	-11%	18%	-36%	-4%	-14%	-16%	2%	-10%
Average	-18%	-40%		-15%	0%	-11%	-35%	-30%	1%	-28%	-17%	-26%	-27%	-5%	-22%

[1] Estimates 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.
[2] Preliminary
[3] Pacific Flyway total includes Alaska

AVERAGE SEASONAL GOOSE HUNTER DAYS AFIELD BY STATE OF HARVEST (Harvest Information Program)[1]

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	6.21	5.71	5.61	8.21	4.31	4.97	3.90	6.58	2.84	5.99
2002	5.64	5.23	4.80	8.44	5.82	5.01	5.00	6.64	2.90	5.50
2003 [2]	7.01	7.22	4.66	7.51	5.32	4.67	5.19	7.30	3.19	5.72
2004 [2]	6.27	6.32	4.84	7.78	4.96	4.98	4.45	6.39	2.97	6.89
2005 [2]	5.77	7.07	4.38	8.39	4.15	5.02	4.33	6.06	3.12	5.23
2006 [2]	5.91	5.07	4.35	7.26	3.18	4.59	5.48	6.08	3.43	5.15
2007 [2]	5.75	5.58	4.29	8.57	3.87	4.29	4.56	5.92	3.10	5.18
2008 [2]	6.59	5.69	3.88	7.92	3.77	4.43	5.68	5.50	3.46	5.51
2009 [2]	5.58	6.46	4.02	8.08	4.89	4.74	4.36	5.69	2.97	4.69
2010 [2]	5.66	5.32	3.94	8.48	3.27	4.18	4.46	4.88	3.31	5.21
2011 [2]	5.66	5.88	4.49	9.31	6.07	4.46	3.97	5.58	4.56	4.86
2012 [2]	6.10	6.52	5.02	7.27	4.80	4.50	4.84	5.63	2.69	5.10
2013 [2]	6.28	5.69	4.68	7.17	4.16	4.73	5.00	6.49	2.98	5.96
2014 [2]	5.07	5.85	4.47	8.19	3.20	4.61	5.34	4.61	3.28	4.68
2015 [2]	4.74	4.13	5.06	8.38	3.43	4.60	5.09	6.18	3.19	4.96
2016 [2]	5.63	6.30	4.47	7.39	3.37	5.02	6.56	4.49	3.14	4.34
2017 [2]	5.31	4.69	5.20	8.36	3.97	4.43	3.43	5.10	2.93	5.51
2018 [2]	5.59	3.55	4.23	8.84	3.00	4.48	2.89	4.83	3.82	3.95

[1] Estimates for NM, CO, WY, and MT are statewide.
[2] Preliminary

AVERAGE SEASONAL GOOSE BAG PER HUNTER BY STATE OF HARVEST (Harvest Information Program)[1]

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	5.4	8.4	6.1	9.5	6.3
2001	4.2	5.6	4.5	5.6	6.2	6.1	3.1	7.2	6.4	4.0
2002	4.9	7.6	3.7	4.6	3.3	5.5	4.9	7.0	5.9	4.0
2003 [2]	7.6	9.9	4.8	6.3	4.0	5.4	4.9	9.2	6.4	5.8
2004 [2]	5.2	6.7	3.6	4.8	3.9	5.6	5.0	6.8	5.2	6.3
2005 [2]	6.0	9.1	4.0	7.4	3.8	5.8	4.3	6.7	7.8	5.0
2006 [2]	6.8	7.5	4.6	5.1	2.6	6.4	6.1	9.1	5.3	5.9
2007 [2]	5.4	5.9	4.8	5.7	6.3	6.0	5.7	7.1	5.7	3.3
2008 [2]	6.1	8.2	4.0	6.4	3.2	6.3	5.5	7.7	5.5	7.5
2009 [2]	6.2	9.4	3.8	7.0	6.0	6.6	4.3	8.1	5.4	5.8
2010 [2]	6.6	7.1	3.8	7.8	3.2	6.0	4.9	6.8	5.5	6.4
2011 [2]	4.6	7.1	4.9	6.4	5.8	6.0	4.3	8.9	5.6	4.3
2012 [2]	7.1	8.3	5.7	7.9	3.9	7.3	6.5	9.6	6.7	7.8
2013 [2]	7.4	9.8	6.6	10.0	3.1	8.0	10.1	10.8	4.9	6.1
2014 [2]	7.7	15.9	5.5	8.7	3.9	7.1	6.5	7.5	7.2	5.5
2015 [2]	6.6	7.7	6.0	8.4	1.7	5.8	5.3	7.4	3.2	5.7
2016 [2]	7.6	8.5	5.2	9.8	1.2	7.2	6.4	6.8	4.3	6.5
2017 [2]	9.1	9.3	5.6	11.0	1.3	8.2	7.7	8.2	4.8	8.5
2018 [2]	6.2	4.8	5.6	9.0	3.2	6.0	4.4	5.2	3.4	5.4

[1] Estimates for NM, CO, WY, and MT are statewide.
[2] Preliminary

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ESTIMATED ACTIVE MID-CONTINENT SANDHILL CRANE HUNTERS[1] IN THE CENTRAL FLYWAY AND MINNESOTA

YR	CO	KS	MT	NM	ND	OK	SD	TX	WY	CF TOTAL	MN
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 [2]	236	495	60	244	2,271	64	114	4,821	10	8,315	
2004 [2]	315	539	93	252	2,491	265	79	5,121	16	9,171	
2005 [2]	280	274	90	233	3,370	259	165	5,383	24	10,078	
2006 [2]	144	445	71	245	3,272	243	144	5,531	25	10,120	
2007 [2]	158	255	82	241	3,145	166	57	5,685	19	9,808	
2008 [2]	191	283	84	239	2,815	255	64	6,338	24	10,293	
2009 [2]	159	213	50	286	3,546	371	63	3,179	67	7,934	
2010 [2]	302	182	93	192	3,474	332	52	4,187	29	8,843	964
2011 [2]	138	449	95	206	3,733	418	44	2,712	41	7,836	643
2012 [2]	139	214	59	270	3,332	160	54	2,972	39	7,239	410
2013 [2]	118	235	94	276	3,326	638	91	5,473	35	10,286	485
2014 [2]	89	151	88	252	1,743	231	56	5,145	70	7,825	401
2015 [2]	126	334	115	263	1,430	158	--- [3]	3,241	78	5,745	424
2016 [2]	144	332	113	310	1,504	219	39	6,746	96	9,503	471
2017 [2]	221	710	98	360	1,562	246	71	7,066	305	10,639	397
2018 [2]	178	1004	175	416	1,626	258	73	8,807	94	12,631	383
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	
2000-09	205	401	75	224	2,873	247	118	4,683	22	8,849	
2010-2018	162	401	103	283	2,414	296	60	5,150	87	8,950	509
1975-2018	165	402	72	312	2,660	312	123	3,726	29	7,634	

[1] Those permittees reporting hunting cranes 1 or more times

09/20/19

[2] Preliminary

[3] All hunters put in stratum "did not hunt" or "no" in state HIP sample frame, so no estimate is available.

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

	EASTERN POPULATION						WESTERN POPULATION					
YR	MT	ND	SD	NC	VA	TOTAL	UT	NV	MT	AK	TOTAL	TOTAL
1964							940				940	940
1965							915				915	915
1966							950				950	950
1967							910				910	910
1968							930				930	930
1969							2,225				2,225	2,225
1970							2,200		275		2,475	2,475
1971							2,146	415	245		2,806	2,806
1972							2,100	400	265		2,765	2,765
1973							2,175	375	230		2,780	2,780
1974							2,200	385	350		2,935	2,935
1975							2,175	390	350		2,915	2,915
1976							2,150	410	380		2,940	2,940
1977							2,264	380			2,644	2,644
1978							2,150	370	350		2,870	2,870
1979							2,150	390	390		2,930	2,930
1980							2,100	395	400		2,895	2,895
1981							2,225	445	330		3,000	3,000
1982							2,200	400	340		2,940	2,940
1983	70					70	2,125	507	375		3,007	3,077
1984	58			867		925	2,150	494	305		2,949	3,874
1985	60			5,080		5,140	2,021	436	275		2,732	7,872
1986	51			4,888		4,939	2,075	480	270		2,825	7,764
1987	106			5,014		5,120	1,924	404	395		2,723	7,843
1988	60	301		4,729	519	5,609	1,875	195	355	71	2,496	8,105
1989	117	865		4,446	517	5,945	1,925	262	400	81	2,668	8,613
1990	121	816	485	4,859	499	6,780	2,050	232	370	46	2,698	9,478
1991	131	1,565	850	4,849	488	7,883	1,950	181	185	53	2,369	10,251
1992	139	1,648	1,352	4,675	516	8,330	1,875	71	365	58	2,369	10,699
1993	119	1,603	1,350	4,802	334	8,208	2,025	135	380	83	2,623	10,831
1994	145	1,616	1,260	4,790	489	8,300	2,100	161	405	119	2,785	11,085
1995	175	1,638	900	4,776	495	7,984	2,172	287	340	118	2,917	10,901
1996	219	1,549	840	3,773	476	6,857	2,392	331	415	81	3,219	10,076
1997	262	1,671	872	3,892	503	7,200	2,392	328	395	125	3,240	10,440
1998	308	1,559	851	3,762	481	6,961	2,420	418	415	108	3,361	10,322
1999	282	1,675	690	3,836	445	6,928	2,338	435	390	148	3,311	10,239
2000	260	1,566	606	4,047	513	6,992	1,680	360	301	59	2,400	9,392
2001	233	1,553	827	3,997	510	7,120	1,560	240	340	151	2,291	9,411
2002	200	1,550	693	3,951	485	6,879	1,658	182	305	151	2,296	9,175
2003	199	1,436	587	4,257	520	6,999	1,740	221	250	131	2,342	9,341
2004	230	1,564	579	3,958	526	6,857	1,600	221	400	91	2,312	9,169
2005	240	1,715	539	4,180	527	7,201	1,618	270	380	83	2,351	9,552
2006	211	1,650	543	4,074	520	6,998	1,775	442	325	82	2,624	9,622
2007	213	1,672	700	4,126	509	7,220	1,800	501	400	70	2,771	9,991
2008	193	1,738	653	4,244	523	7,351	1,760	369	385	109	2,623	9,975
2009	193	1,804	752	4,322	492	7,563	1,780	283	405	92	2,560	10,123
2010	207	1,694	665	4,246	500	7,312	1,720	356	360	129	2,565	9,877
2011	192	1,760	740	4,200	454	7,346	1,740	401	390	128	2,659	10,004
2012	213	1,650	680	4,179	452	7,174	1,820	501	370	114	2,805	9,979
2013	202	1,671	722	4,308	442	7,345	1,540	268	375	110	2,293	9,637
2014	265	1,692	739	4,069	417	7,182	1,740	280	345	80	2,445	9,626
2015	276	1,672	802	4,309	545	7,604	1,740	60	360	101	2,261	9,865
2016	262	1,561	582	3,744	444	6,593	1,620	295	360	58	2,333	8,926
2017	128	1,755	625	5,309	522	8,339	1,740	405	200	43	2,388	10,727
2018	223	1,863	619	5,265	532	8,502	1,720	475	305	51	2,551	11,053

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

	EASTERN POPULATION						WESTERN POPULATION					
YR	MT	ND	SD	NC	VA	TOTAL	UT	NV	MT	AK	TOTAL	TOTAL
1964							0.45				0.45	0.45
1965							0.43				0.43	0.43
1966							0.60				0.60	0.60
1967							0.37				0.37	0.37
1968							0.67				0.67	0.67
1969							0.74				0.79	0.79
1970							0.57		0.65		0.67	0.67
1971							0.60	0.29	0.37		0.53	0.53
1972							0.55	0.35	0.57		0.52	0.52
1973							0.66	0.32	0.49		0.60	0.60
1974							0.72	0.56	0.90		0.72	0.72
1975							0.71	0.57	0.87		0.71	0.71
1976							0.58	0.55	0.40		0.55	0.55
1977							0.83	0.25			0.84	0.84
1978							0.70	0.25	0.47		0.61	0.61
1979							0.71	0.66	0.86		0.73	0.73
1980							0.64	0.30	0.68		0.60	0.60
1981							0.87	0.79	0.59		0.82	0.82
1982							0.69	0.46	0.44		0.63	0.63
1983	0.49					0.49	0.66	0.38	0.63		0.61	0.61
1984	0.39			0.39		0.39	0.60	0.51	0.74		0.60	0.55
1985	0.32			0.55		0.55	0.37	0.36	0.72		0.40	0.50
1986	0.80			0.53		0.53	0.51	0.53	0.80		0.54	0.53
1987	0.26			0.60		0.62	0.33	0.26	0.77		0.38	0.53
1988	0.45	0.72		0.58	0.24	0.55	0.51	0.42	0.79	0.23	0.53	0.55
1989	0.39	0.68		0.53	0.29	0.53	0.44	0.32	0.85	0.27	0.48	0.52
1990	0.51	0.70	0.84	0.64	0.29	0.63	0.50	0.31	0.80	0.35	0.52	0.60
1991	0.41	0.52	0.61	0.65	0.45	0.61	0.48	0.35	0.46	0.15	0.46	0.57
1992	0.27	0.59	0.71	0.62	0.40	0.61	0.26	0.44	0.62	0.29	0.32	0.54
1993	0.18	0.49	0.51	0.62	0.41	0.56	0.19	0.43	0.84	0.36	0.30	0.50
1994	0.44	0.48	0.47	0.82	0.41	0.67	0.42	0.60	0.86	0.35	0.49	0.63
1995	0.34	0.55	0.22	0.67	0.45	0.57	0.19	0.32	0.57	0.49	0.26	0.49
1996	0.30	0.48	0.30	0.61	0.42	0.52	0.48	0.41	0.78	0.65	0.51	0.52
1997	0.44	0.56	0.51	0.64	0.45	0.59	0.38	0.45	0.90	0.52	0.45	0.55
1998	0.29	0.43	0.29	0.65	0.52	0.53	0.59	0.50	0.78	0.48	0.60	0.55
1999	0.34	0.57	0.36	0.61	0.30	0.55	0.46	0.53	0.61	0.65	0.49	0.53
2000	0.50	0.44	0.30	0.67	0.36	0.56	0.39	0.25	0.82	2.00	0.46	0.53
2001	0.42	0.40	0.46	0.63	0.30	0.53	0.20	0.27	0.94	0.77	0.35	0.48
2002	0.28	0.48	0.32	0.63	0.38	0.54	0.34	0.28	0.60	0.36	0.37	0.49
2003	0.29	0.18	0.07	0.58	0.35	0.43	0.50	0.37	0.53	0.63	0.50	0.45
2004	0.48	0.50	0.25	0.46	0.32	0.44	0.45	0.40	0.67	0.60	0.49	0.45
2005	0.42	0.49	0.29	0.62	0.40	0.54	0.54	0.39	0.83	0.55	0.57	0.55
2006	0.30	0.40	0.33	0.59	0.33	0.50	0.53	0.36	0.53	0.88	0.51	0.50
2007	0.30	0.44	0.23	0.57	0.39	0.49	0.50	0.45	0.82	0.93	0.54	0.50
2008	0.29	0.56	0.42	0.61	0.49	0.56	0.42	0.37	0.55	0.62	0.44	0.53
2009	0.36	0.56	0.45	0.54	0.36	0.52	0.50	0.21	0.80	0.88	0.53	0.52
2010	0.22	0.47	0.33	0.62	0.49	0.54	0.46	0.35	0.63	0.54	0.47	0.52
2011	0.34	0.44	0.39	0.61	0.33	0.52	0.43	0.39	0.69	0.76	0.48	0.51
2012	0.38	0.40	0.26	0.62	0.39	0.52	0.52	0.44	0.83	0.48	0.55	0.52
2013	0.34	0.49	0.44	0.60	0.38	0.54	0.26	0.11	0.68	0.58	0.32	0.49
2014	0.35	0.50	0.38	0.61	0.41	0.54	0.48	0.09	0.51	0.60	0.44	0.51
2015	0.40	0.39	0.30	0.62	0.32	0.51	0.54	0.17	0.80	0.72	0.58	0.52
2016	0.34	0.40	0.16	0.56	0.30	0.46	0.52	0.47	0.66	0.66	0.54	0.48
2017	0.41	0.49	0.39	0.62	0.49	0.56	0.49	0.34	0.60	0.65	0.48	0.55
2018	0.27	0.50	0.31	0.54	0.39	0.50	0.57	0.52	0.41	0.41	0.54	0.51

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DUCK HARVESTS IN THE UNITED STATES

ESTIMATED REGULAR SEASON MALLARD HARVESTS (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC [2] FLYWAY	U.S.
1999	38,337	114,167	29,678	91,025	7,851	254,256	114,589	145,196	182,755	17,675	995,529	444,068	3,136,859	1,318,473	5,894,929
2000	49,420	102,846	29,211	118,548	21,894	182,521	116,379	110,607	283,116	21,447	1,035,989	522,968	3,272,671	1,237,479	6,069,107
2001	80,906	97,739	27,151	133,947	22,872	242,147	92,830	154,993	300,903	24,870	1,178,358	472,682	2,796,047	1,031,568	5,478,655
2002	43,032	93,112	22,263	112,577	20,701	226,961	121,494	117,085	232,687	23,736	1,013,648	538,846	2,374,276	906,787	4,833,557
2003 [1]	59,600	95,711	38,200	127,992	25,148	231,335	110,031	124,593	130,070	19,430	962,110	427,301	2,482,378	1,058,281	4,930,070
2004 [1]	47,854	133,582	32,575	95,874	15,646	223,924	186,755	93,993	117,021	22,210	969,434	422,004	2,199,931	940,160	4,531,529
2005 [1]	31,089	84,193	26,871	89,415	8,126	233,142	125,375	81,701	171,208	17,025	868,145	444,305	2,049,383	1,105,095	4,466,928
2006 [1]	44,782	55,780	18,231	86,754	12,421	162,300	126,446	72,734	111,196	19,308	709,952	399,651	2,286,251	1,272,165	4,668,019
2007 [1]	39,393	61,041	19,229	91,047	9,276	171,224	219,572	83,640	86,931	25,345	806,698	429,917	2,514,119	1,127,524	4,878,258
2008 [1]	48,486	98,160	27,156	90,391	11,394	139,219	97,524	76,643	70,234	17,581	676,788	503,480	2,281,761	1,092,094	4,554,123
2009 [1]	42,670	80,574	25,348	84,027	13,241	169,224	104,072	108,581	74,524	19,214	721,475	419,279	2,075,916	917,944	4,134,614
2010 [1]	28,241	76,639	26,288	75,236	13,642	105,146	90,298	83,910	89,514	14,300	603,214	394,429	2,228,872	939,498	4,166,013
2011 [1]	27,372	85,163	17,263	104,793	15,455	187,683	101,595	100,254	113,557	20,075	773,210	315,897	2,240,248	1,079,618	4,408,973
2012 [1]	35,161	78,157	18,761	94,630	15,222	187,963	118,526	99,769	92,801	22,154	763,144	324,713	1,882,553	964,088	3,934,498
2013 [1]	34,122	94,432	26,289	82,415	11,563	178,721	134,470	81,098	68,282	28,693	740,085	328,029	1,836,788	732,483	3,637,385
2014 [1]	54,497	114,417	20,303	75,602	14,123	213,079	148,826	81,560	73,761	17,306	813,474	294,063	1,992,450	803,447	3,903,434
2015 [1]	40,510	112,358	26,732	72,381	12,300	189,295	118,530	63,712	65,403	13,226	714,447	250,114	1,695,598	773,155	3,433,314
2016 [1]	47,573	95,986	13,302	78,575	6,845	163,808	131,487	48,402	118,700	11,177	715,855	313,511	1,826,117	863,500	3,718,983
2017 [1]	44,130	65,323	16,087	62,861	15,710	171,745	79,361	44,934	96,236	14,589	610,976	286,376	1,643,472	884,735	3,425,559
2018 [1]	39,051	72,553	33,860	50,582	11,256	157,338	118,270	50,841	103,378	13,915	651,044	277,119	1,407,353	1,038,273	3,373,789
AVERAGE:															
1999-2018	43,811	90,597	24,740	90,934	14,234	189,552	122,822	91,212	129,114	19,164	816,179	390,438	2,211,152	1,004,318	4,422,087
% CHANGE FROM:															
Prev. Year	-12%	11%	110%	-20%	-28%	-8%	49%	13%	7%	-5%	7%	-3%	-14%	17%	-2%
Average	-11%	-20%	37%	-44%	-21%	-17%	-4%	-44%	-20%	-27%	-20%	-29%	-36%	3%	-24%

[1] Preliminary
[2] Pacific Flyway total includes Alaska

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ESTIMATED REGULAR SEASON GADWALL HARVESTS (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC [2] FLYWAY	U.S.
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	609,413	67,496	1,267,013	132,510	2,076,432
2001	8,062	19,154	1,682	13,535	6,584	82,880	25,834	29,023	302,957	2,073	491,784	33,785	845,701	122,398	1,493,668
2002	5,121	36,572	2,137	21,212	4,732	98,282	40,718	36,700	163,686	2,482	411,642	39,803	661,701	118,960	1,232,106
2003 [1]	10,360	41,063	1,860	20,928	7,480	96,155	40,657	37,432	163,195	3,600	422,730	38,479	851,315	154,056	1,466,580
2004 [1]	8,574	41,374	1,786	12,848	4,364	125,440	69,687	35,867	178,924	4,194	483,058	24,269	654,488	202,161	1,363,976
2005 [1]	10,388	21,629	1,198	9,495	5,157	95,382	57,475	28,511	269,041	1,686	499,962	34,337	635,321	194,332	1,363,952
2006 [1]	9,602	30,594	1,582	12,459	3,892	63,324	68,983	34,033	236,409	2,498	463,376	33,252	803,393	244,379	1,544,400
2007 [1]	7,914	27,687	2,069	10,820	2,978	57,159	87,577	25,697	169,311	2,614	393,826	38,950	842,192	199,854	1,474,822
2008 [1]	10,409	34,080	2,451	14,915	3,177	46,058	54,380	24,876	147,137	1,941	339,424	36,313	906,308	182,226	1,464,271
2009 [1]	9,482	27,589	3,466	13,059	4,626	93,530	68,047	31,363	207,963	2,091	461,216	33,448	713,277	193,833	1,401,774
2010 [1]	4,137	30,940	1,766	9,262	3,782	55,061	56,302	21,671	182,980	1,735	367,636	53,420	1,098,694	215,534	1,735,284
2011 [1]	4,136	29,553	4,384	16,134	3,768	65,673	71,914	20,910	337,206	2,305	555,983	68,561	1,473,197	213,633	2,311,374
2012 [1]	7,192	32,473	1,960	8,893	1,307	60,668	84,037	29,082	310,375	972	536,959	49,318	1,240,234	194,222	2,020,733
2013 [1]	14,874	34,188	3,721	15,257	4,176	65,052	96,304	19,511	199,328	3,137	455,548	79,891	1,009,467	129,649	1,674,555
2014 [1]	6,183	13,648	2,739	5,254	2,547	85,704	61,881	15,535	227,865	679	422,035	90,036	947,364	123,360	1,582,795
2015 [1]	9,713	31,068	1,273	8,699	850	70,999	47,943	20,293	137,215	912	328,965	58,906	559,520	155,898	1,103,289
2016 [1]	8,395	13,981	1,282	8,446	1,069	70,781	39,748	9,539	195,296	1,042	349,579	92,160	662,282	149,415	1,253,436
2017 [1]	12,443	19,380	1,676	14,425	3,283	58,766	39,612	19,639	160,607	3,973	333,804	64,618	623,532	198,234	1,220,188
2018 [1]	5,912	14,722	4,283	5,850	3,457	75,234	42,655	24,185	147,034	2,207	325,539	62,214	421,296	138,329	947,378
AVERAGE:															
1999-2018	8,426	27,812	2,277	13,049	3,838	78,354	58,012	26,499	220,002	2,182	440,452	53,073	864,270	169,840	1,527,635
% CHANGE FROM:															
Prev. Year	-52%	-24%	156%	-59%	5%	28%	8%	23%	-8%	-44%	-2%	-4%	-32%	-30%	-22%
Average	-30%	-47%	88%	-55%	-10%	-4%	-26%	-9%	-33%	1%	-26%	17%	-51%	-19%	-38%

[1] Preliminary
[2] Pacific Flyway total includes Alaska

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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 FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC [2] FLYWAY	U.S.
1999	4,070	7,075	3,741	7,714	2,077	22,536	14,452	11,400	126,778	1,828	201,671	49,592	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	301,307	774,927
2001	9,052	6,265	1,842	6,378	6,353	24,450	7,289	12,227	128,029	3,036	204,921	37,637	172,897	323,570	739,025
2002	9,067	13,032	1,861	14,967	3,509	30,998	14,171	14,653	85,108	3,441	190,807	32,466	144,517	297,414	665,204
2003 [1]	8,697	15,513	1,156	13,328	6,147	23,742	11,322	15,374	52,028	3,699	151,006	39,505	120,737	283,489	594,737
2004 [1]	9,038	13,371	2,491	11,272	3,879	44,458	23,171	17,593	97,800	3,241	226,314	19,374	149,793	354,438	749,919
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
2006 [1]	7,020	7,944	2,248	10,706	2,932	16,704	21,394	11,382	115,868	2,363	198,561	39,999	163,839	451,819	854,218
2007 [1]	5,069	6,638	2,587	9,377	3,207	12,476	15,504	6,298	93,396	3,100	157,652	25,536	148,774	486,885	818,847
2008 [1]	9,314	17,760	2,255	11,450	3,141	13,690	17,279	9,971	68,468	2,337	155,665	29,563	160,218	527,669	873,115
2009 [1]	5,438	11,511	2,491	8,935	3,824	21,181	19,257	10,530	98,046	4,082	185,295	33,514	96,709	396,248	711,766
2010 [1]	2,968	8,415	1,079	11,542	6,432	11,575	14,585	5,551	68,123	2,221	132,491	39,782	129,962	411,513	713,748
2011 [1]	4,623	8,262	1,507	10,703	2,612	12,294	16,736	8,020	98,896	2,062	165,715	44,367	135,571	408,483	754,136
2012 [1]	4,994	7,959	4,340	7,782	2,614	13,903	33,032	7,642	119,114	1,555	202,935	23,837	137,133	409,474	773,379
2013 [1]	7,656	9,460	4,682	8,737	4,898	13,792	32,175	7,035	86,675	3,045	178,155	34,734	95,602	327,186	635,677
2014 [1]	4,170	4,975	1,934	3,697	2,315	20,186	17,112	5,031	75,310	1,163	135,893	39,094	84,575	349,751	609,313
2015 [1]	8,291	9,803	1,114	5,155	2,994	14,221	11,556	4,845	42,203	1,327	101,509	29,869	63,988	395,943	591,309
2016 [1]	3,576	3,760	2,083	7,088	2,112	21,056	11,908	5,676	67,690	1,294	126,243	55,342	91,897	346,085	619,567
2017 [1]	7,524	7,185	1,089	7,543	11,138	19,982	10,618	6,038	76,775	4,315	152,207	26,442	108,267	403,919	690,835
2018 [1]	9,957	4,880	2,008	4,230	6,673	22,961	13,043	6,532	42,434	2,207	114,925	51,136	65,348	423,202	654,611
AVERAGE:															
1999-2018	6,574	9,183	2,204	9,140	4,281	20,226	16,586	9,098	90,311	2,521	170,122	35,572	128,971	382,707	717,372
% CHANGE FROM:															
Prev. Year	32%	-32%	84%	-44%	-40%	15%	23%	8%	-45%	-49%	-24%	93%	-40%	5%	-5%
Average	51%	-47%	-9%	-54%	56%	14%	-21%	-28%	-53%	-12%	-32%	44%	-49%	11%	-9%

[1] Preliminary
[2] Pacific Flyway total includes Alaska

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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 FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC [2] FLYWAY	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	230,405	538,714
2000	2,310	7,453	857	7,474	3,022	18,645	5,626	8,211	81,975	325	135,898	20,050	153,036	203,033	512,017
2001	1,839	7,339	641	6,845	2,426	21,272	3,752	12,474	79,077	386	136,051	20,619	125,148	159,798	441,616
2002	1,738	4,624	758	4,224	631	17,181	2,078	9,312	19,590	566	60,702	17,220	99,759	130,183	307,864
2003 [1]	2,174	4,157	653	2,974	2,063	17,806	1,132	6,149	18,383	148	55,639	18,134	119,005	144,020	336,798
2004 [1]	1,275	3,280	705	3,030	711	21,004	5,706	4,763	22,330	477	63,281	10,254	90,542	147,040	311,117
2005 [1]	764	3,666	685	3,052	1,113	20,670	5,614	5,141	37,834	381	78,920	17,339	107,276	208,495	412,030
2006 [1]	726	2,704	333	1,477	1,706	10,596	2,331	4,781	41,426	270	66,350	20,282	104,286	239,423	430,341
2007 [1]	1,778	2,591	345	4,328	973	11,585	5,447	5,794	54,840	547	88,228	19,076	162,416	259,447	529,167
2008 [1]	1,781	6,872	588	4,218	876	7,657	4,982	3,626	41,198	431	72,229	21,298	158,218	284,676	536,421
2009 [1]	2,649	5,664	1,083	3,093	968	18,840	6,599	8,492	42,868	747	91,003	15,056	106,727	285,976	498,762
2010 [1]	630	5,437	883	2,992	2,509	11,250	11,153	12,917	68,821	417	117,009	23,522	196,185	367,952	704,668
2011 [1]	2,311	5,243	959	9,585	1,927	28,635	16,736	14,752	106,893	546	187,587	17,831	212,499	391,533	809,450
2012 [1]	1,299	6,367	2,380	1,806	2,076	21,126	7,448	11,463	101,855	583	156,403	12,609	156,593	357,842	683,447
2013 [1]	3,281	12,115	1,200	3,652	2,248	24,136	9,320	10,087	64,374	277	130,690	21,367	155,104	231,175	538,336
2014 [1]	1,294	4,847	1,772	2,530	2,161	25,263	7,433	7,326	54,595	388	107,609	17,685	115,368	230,528	471,190
2015 [1]	2,132	6,033	318	2,148	2,225	23,918	6,403	5,210	36,016	166	84,569	17,501	95,746	249,372	447,188
2016 [1]	777	5,169	321	2,111	1,176	20,461	11,740	2,601	64,127	288	108,771	25,407	101,514	231,775	467,467
2017 [1]	723	4,160	168	3,970	3,048	16,525	8,440	4,068	60,949	411	102,462	16,280	134,643	203,492	456,877
2018 [1]	467	3,335	937	2,970	402	19,656	3,701	3,972	27,765	184	63,389	17,539	68,949	270,082	419,959
AVERAGE:															
1999-2018	1,542	5,323	829	3,886	1,668	19,147	6,595	7,706	54,718	420	101,835	18,709	130,816	241,312	492,671
% CHANGE FROM:															
Prev. Year	-35%	-20%	458%	-25%	-87%	19%	-56%	-2%	-54%	-55%	-38%	8%	-49%	33%	-8%
Average	-70%	-37%	13%	-24%	-76%	3%	-44%	-48%	-49%	-56%	-38%	-6%	-47%	12%	-15%

[1] Preliminary
[2] Pacific Flyway total includes Alaska

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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 FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC [2] FLYWAY	U.S.
1999	1,791	4,578	914	6,017	1,303	22,899	5,462	14,250	63,389	697	121,300	17,350	201,054	192,837	532,541
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	1,414	3,401	240	4,356	2,426	17,957	1,394	16,302	85,581	145	133,216	21,468	235,899	148,577	539,160
2002	2,067	3,783	551	4,499	1,538	19,464	3,873	9,449	41,357	1,045	87,626	14,688	126,468	140,152	368,934
2003 [1]	4,732	4,258	754	5,618	1,934	19,290	4,838	9,759	36,593	493	88,269	12,748	206,977	157,744	465,738
2004 [1]	2,781	5,298	188	2,424	1,972	22,404	7,781	9,331	51,444	858	104,481	9,865	158,905	206,157	479,408
2005 [1]	3,972	4,277	399	3,617	1,150	20,208	8,688	8,974	86,368	163	137,816	18,672	195,236	189,925	541,649
2006 [1]	3,389	6,254	749	5,353	2,985	16,080	6,720	7,285	55,443	135	104,393	12,496	225,100	301,358	643,347
2007 [1]	5,780	4,210	1,035	7,053	1,718	19,987	10,476	10,455	80,465	61	141,240	15,045	289,071	369,431	814,787
2008 [1]	3,561	2,400	392	4,068	1,278	12,066	7,632	4,834	28,839	144	65,214	11,415	251,531	259,185	587,345
2009 [1]	2,371	7,674	2,058	4,124	566	39,909	7,573	11,888	62,213	299	138,675	19,202	283,039	202,584	643,500
2010 [1]	1,889	9,321	785	5,842	1,237	21,743	8,472	11,957	78,354	555	140,155	29,651	475,080	289,755	934,641
2011 [1]	730	8,262	2,192	9,904	642	28,012	9,545	8,736	106,360	364	174,747	32,087	375,091	334,732	916,657
2012 [1]	3,396	2,706	1,120	3,057	846	27,626	10,363	10,189	95,065	583	154,951	33,027	390,664	373,731	952,373
2013 [1]	11,155	12,945	3,721	6,259	1,847	30,227	17,086	15,795	74,490	0	173,525	27,862	355,369	265,103	821,859
2014 [1]	1,150	4,592	2,417	1,751	2,392	29,866	6,568	8,032	85,570	194	142,532	39,505	294,147	228,570	704,754
2015 [1]	3,790	4,524	1,114	1,503	364	23,702	6,247	13,529	29,719	332	84,824	22,748	155,091	281,339	544,002
2016 [1]	311	3,290	1,923	2,262	1,283	26,290	6,373	5,203	59,755	144	106,834	30,290	193,823	172,988	503,935
2017 [1]	723	7,468	84	2,779	2,228	19,645	4,628	7,945	64,585	411	110,496	26,307	237,114	211,559	585,476
2018 [1]	467	4,474	2,008	3,420	1,930	29,485	2,644	8,473	34,750	307	87,958	20,642	127,149	198,581	434,330
AVERAGE:															
1999-2018	2,875	5,275	1,171	4,356	1,559	22,910	6,995	9,901	64,605	375	120,022	21,651	248,656	232,803	623,132
% CHANGE FROM:															
Prev. Year	-35%	-40%	2290%	23%	-13%	50%	-43%	7%	-46%	-25%	-20%	-22%	-46%	-6%	-26%
Average	-84%	-15%	72%	-21%	24%	29%	-62%	-14%	-46%	-18%	-27%	-5%	-49%	-15%	-30%

[1] Preliminary
[2] Pacific Flyway total includes Alaska

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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 FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC [2] FLYWAY	U.S.
1999	1,628	4,439	1,330	11,725	422	2,726	7,965	6,334	87,574	348	124,491	391,514	924,461	52,247	1,492,713
2000	1,750	2,683	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	1,980	3,938	1,362	2,334	1,271	1,105	1,394	3,582	95,166	578	112,710	399,985	597,152	54,200	1,164,047
2002	1,362	3,153	827	3,489	1,065	2,043	3,118	4,930	64,430	305	84,722	347,202	660,754	34,503	1,127,181
2003 [1]	1,790	3,751	553	3,084	559	2,226	7,823	6,149	49,600	247	75,782	336,934	711,420	40,962	1,165,098
2004 [1]	2,781	3,027	658	3,273	453	2,217	7,954	3,791	50,031	95	74,280	264,438	697,338	35,711	1,071,767
2005 [1]	1,222	1,589	628	4,748	482	1,963	10,426	4,020	42,038	272	67,388	321,780	663,704	55,545	1,108,417
2006 [1]	1,130	2,874	583	1,846	746	2,368	4,251	3,984	30,836	945	49,563	330,722	601,793	58,845	1,040,923
2007 [1]	1,067	1,133	1,380	5,530	630	1,528	12,571	4,031	47,178	486	75,534	334,952	593,133	53,088	1,056,707
2008 [1]	2,876	3,600	588	5,122	511	1,276	5,936	4,230	30,997	180	55,316	363,920	628,122	60,319	1,107,677
2009 [1]	1,952	3,106	1,083	3,093	330	2,341	4,868	2,831	27,919	249	47,772	356,270	622,578	45,659	1,072,279
2010 [1]	1,079	3,366	785	6,412	459	1,406	3,539	2,776	36,502	347	56,671	448,363	900,995	49,688	1,455,717
2011 [1]	2,555	2,224	1,096	4,792	599	1,556	3,792	6,302	23,458	182	46,556	416,006	905,281	41,627	1,409,470
2012 [1]	400	1,114	0	973	231	2,347	972	5,731	20,088	194	32,050	444,727	764,894	37,648	1,279,319
2013 [1]	1,312	2,655	720	2,608	642	2,988	3,107	4,778	14,484	0	33,294	325,518	760,820	26,184	1,145,816
2014 [1]	2,013	1,403	322	2,822	772	2,715	9,334	4,060	19,553	339	43,333	401,405	593,688	29,317	1,067,743
2015 [1]	2,369	1,508	1,273	4,189	809	1,616	6,715	3,017	18,450	166	40,112	314,935	546,108	25,957	927,112
2016 [1]	777	1,645	801	3,167	241	2,260	3,689	3,547	68,985	539	85,651	386,755	576,800	23,855	1,073,061
2017 [1]	1,736	1,512	503	2,779	469	2,782	4,492	1,907	94,097	274	110,551	453,217	602,061	44,938	1,210,767
2018 [1]	1,089	1,464	535	3,060	1,206	2,522	4,054	3,531	52,562	245	70,268	370,534	396,092	31,118	868,012
AVERAGE:															
1999-2018	1,643	2,509	781	4,100	676	2,097	5,482	4,258	48,385	304	70,237	369,365	675,425	42,798	1,157,824
% CHANGE FROM:															
Prev. Year	-37%	-3%	6%	10%	157%	-9%	-10%	85%	-44%	-11%	-36%	-18%	-34%	-31%	-28%
Average	-34%	-42%	-32%	-25%	78%	20%	-26%	-17%	9%	-19%	0%	0%	-41%	-27%	-25%

[1] Preliminary
[2] Pacific Flyway total includes Alaska

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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 FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC [2] FLYWAY	U.S.
1999	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	116,096	58,371	0	174,467
2001	0	0	0	0	0	0	0	0	0	0	0	95,889	31,816	0	127,705
2002	0	0	0	0	0	240	0	0	218	0	458	125,469	47,796	0	173,723
2003 [1]	0	0	0	0	0	0	0	134	0	0	134	95,108	33,150	0	128,392
2004 [1]	0	0	0	0	0	0	0	0	0	0	0	74,920	35,692	0	110,612
2005 [1]	0	0	0	0	0	115	0	0	0	0	115	93,406	36,365	0	129,886
2006 [1]	0	0	0	0	0	0	0	0	0	0	0	93,356	35,840	0	129,196
2007 [1]	0	0	0	0	0	0	0	0	0	0	0	98,705	38,692	0	137,397
2008 [1]	0	0	0	0	0	116	0	0	196	0	312	90,196	29,641	0	120,149
2009 [1]	0	0	0	0	0	0	0	0	220	0	220	81,287	30,373	0	111,880
2010 [1]	0	0	0	0	0	0	107	0	233	0	340	92,204	27,073	0	119,617
2011 [1]	0	0	0	0	0	156	0	0	0	0	156	66,203	21,992	0	88,351
2012 [1]	0	0	0	0	0	0	0	0	0	0	0	73,871	20,688	0	94,559
2013 [1]	0	0	0	0	0	0	0	133	0	0	133	75,104	24,951	0	100,188
2014 [1]	0	0	0	0	0	0	0	0	0	0	0	56,511	15,885	0	72,396
2015 [1]	0	0	0	0	0	0	0	0	0	0	0	45,986	16,254	0	62,240
2016 [1]	0	0	0	0	0	0	0	0	0	0	0	60,875	25,956	0	86,831
2017 [1]	0	0	0	0	0	0	0	0	0	0	0	85,758	17,855	0	103,613
2018 [1]	0	0	0	0	0	0	0	0	349	0	349	71,781	16,032	0	88,162
AVERAGE:															
1999-2018	0	0	0	0	0	31	5	13	61	0	111	84,736	31,105	0	115,952
% CHANGE FROM:															
Prev. Year												-16%	-10%		-15%
Average						-100%	-100%	-100%	474%		215%	-15%	-48%		-24%

[1] Preliminary
[2] Pacific Flyway total includes Alaska

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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 FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC [2] FLYWAY	U.S.
1999	0	0	0	0	0	0	0	0	7,607	0	7,607	5,648	34,349	0	47,604
2000	0	0	0	0	0	0	0	0	12,047	0	12,047	9,074	27,897	0	49,018
2001	0	0	0	0	0	0	0	0	14,378	0	14,378	15,111	32,010	0	61,499
2002	0	0	0	0	0	0	0	0	7,401	0	7,401	13,041	23,469	0	43,911
2003 [1]	0	0	0	0	0	0	0	0	10,752	0	10,752	10,361	42,013	0	63,126
2004 [1]	0	0	0	0	0	0	0	0	14,133	0	14,133	15,292	34,835	0	64,260
2005 [1]	0	0	0	0	0	0	0	0	14,904	0	14,904	10,641	26,333	0	51,878
2006 [1]	0	0	0	0	0	0	0	0	9,967	0	9,967	13,800	42,706	0	66,473
2007 [1]	0	0	0	0	0	0	0	0	8,861	0	8,861	12,862	51,634	0	73,357
2008 [1]	0	0	0	0	0	0	0	0	12,163	0	12,163	14,990	67,785	0	94,938
2009 [1]	0	0	0	0	0	0	0	0	10,992	0	10,992	19,135	51,860	0	81,987
2010 [1]	0	0	0	0	0	0	0	0	10,463	0	10,463	14,591	55,060	0	80,114
2011 [1]	0	0	0	0	0	0	0	0	13,062	0	13,062	13,821	40,557	0	67,440
2012 [1]	0	0	0	0	0	0	0	0	12,732	0	12,732	7,939	40,733	0	61,404
2013 [1]	0	0	0	0	0	0	0	0	3,219	0	3,219	10,133	36,375	0	49,727
2014 [1]	0	0	0	0	0	0	0	0	5,034	0	5,034	7,569	29,300	0	41,903
2015 [1]	0	0	0	0	81	0	0	0	6,187	0	6,268	9,611	13,702	0	29,581
2016 [1]	0	0	0	0	0	0	0	0	4,372	0	4,372	8,476	10,899	0	23,747
2017 [1]	0	0	0	0	0	0	0	0	4,919	0	4,919	7,595	9,149	0	21,663
2018 [1]	0	0	0	0	0	0	0	0	1,921	0	1,921	11,160	11,259	0	24,340
AVERAGE:															
1999-2018	0	0	0	0	4	0	0	0	9,256	0	9,260	11,543	34,096	0	54,899
% CHANGE FROM:															
Prev. Year									-61%		-61%	47%	23%		12%
Average					-100%				-79%		-79%	-3%	-67%		-56%

[1] Preliminary
[2] Pacific Flyway total includes Alaska

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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 FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC [2] FLYWAY	U.S.
1999	0	0	0	0	211	0	0	0	4,876	0	5,087	0	0	485	5,572
2000	0	0	0	0	1,474	0	0	0	6,286	0	7,760	0	0	1,852	9,612
2001	0	0	0	0	809	0	0	0	6,504	0	7,313	0	0	752	8,065
2002	0	0	0	0	2,721	0	0	0	1,088	0	3,809	0	0	1,375	5,184
2003 [1]	0	0	0	0	2,450	0	0	0	3,469	0	5,919	0	0	895	6,814
2004 [1]	0	0	0	0	1,390	0	0	0	283	0	1,673	0	0	279	1,952
2005 [1]	0	0	0	0	297	0	0	0	764	0	1,061	0	0	878	1,939
2006 [1]	0	0	0	0	693	0	0	0	0	0	693	0	0	400	1,093
2007 [1]	0	0	0	0	286	0	0	0	718	0	1,004	0	0	853	1,857
2008 [1]	0	0	0	0	1,096	0	0	0	0	0	1,096	0	0	918	2,014
2009 [1]	139	0	0	0	566	0	0	0	660	0	1,365	0	0	472	1,837
2010 [1]	0	0	0	0	389	0	0	0	930	0	1,319	0	0	877	2,196
2011 [1]	0	0	0	0	557	0	0	0	267	0	824	0	0	261	1,085
2012 [1]	0	0	0	0	231	0	0	0	0	0	231	0	0	558	789
2013 [1]	0	0	0	0	562	0	0	0	0	0	562	0	0	1,187	1,749
2014 [1]	0	0	0	0	232	0	0	0	581	0	813	0	0	722	1,535
2015 [1]	0	0	0	0	40	0	0	0	110	0	150	0	0	85	235
2016 [1]	0	0	0	0	27	0	0	0	0	0	27	0	0	454	481
2017 [1]	0	0	0	0	117	0	0	0	0	0	117	0	0	233	350
2018 [1]	0	0	0	0	884	0	0	0	0	0	884	0	0	557	1,441
AVERAGE:															
1999-2018	7	0	0	0	752	0	0	0	1,327	0	2,085	0	0	705	2,790
% CHANGE FROM:															
Prev. Year					656%						656%			139%	312%
Average	-100%				18%				-100%		-58%			-21%	-48%

[1] Preliminary
[2] Pacific Flyway total includes Alaska

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

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC [2] FLYWAY	U.S.
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	3,503
2001	0	0	0	0	0	0	0	0	4,793	0	4,793	267	568	0	5,628
2002	0	0	0	0	0	0	0	0	5,442	0	5,442	1,871	0	0	7,313
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	8,398
2006 [1]	0	0	0	0	0	0	0	0	2,492	0	2,492	1,394	6,225	0	10,111
2007 [1]	0	0	0	0	0	0	0	0	8,142	0	8,142	3,740	3,531	0	15,413
2008 [1]	0	0	0	0	0	0	0	0	1,373	0	1,373	1,477	5,879	0	8,729
2009 [1]	0	0	0	0	0	0	0	0	1,759	0	1,759	8,112	15,231	0	25,102
2010 [1]	0	0	0	0	0	0	0	0	6,975	0	6,975	6,495	4,015	58	17,543
2011 [1]	0	0	0	0	0	0	0	0	1,066	0	1,066	5,626	3,625	0	10,317
2012 [1]	0	0	0	0	0	0	0	0	1,415	0	1,415	5,223	937	0	7,575
2013 [1]	0	0	0	0	0	0	0	0	2,529	0	2,529	7,369	2,324	0	12,222
2014 [1]	0	0	0	0	0	0	0	0	968	0	968	3,247	552	0	4,767
2015 [1]	0	0	0	0	0	0	0	0	2,872	0	2,872	8,479	2,771	0	14,122
2016 [1]	0	0	0	0	0	0	0	0	2,429	0	2,429	5,496	1,380	0	9,305
2017 [1]	0	0	0	0	0	0	0	0	3,422	0	3,422	2,879	5,043	0	11,344
2018 [1]	0	0	0	0	0	0	0	0	524	0	524	6,443	1,309	0	8,276
AVERAGE:															
1999-2018	0	0	0	0	0	0	0	0	3,623	0	3,623	3,603	2,975	21	10,222
% CHANGE FROM:															
Prev. Year									-85%		-85%	124%	-74%		-27%
Average									-86%		-86%	79%	-56%	-100%	-19%

[1] Preliminary

[2] Pacific Flyway total includes Alaska

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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 FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC [2] FLYWAY	U.S.
1999	0	0	0	0	0	0	0	0	0	0	0	194	327	0	521
2000	0	0	0	0	0	0	0	0	0	0	0	252	0	0	252
2001	0	0	0	0	0	0	0	0	0	0	0	267	946	0	1,213
2002	0	0	0	0	0	0	0	0	0	0	0	125	140	0	265
2003 [1]	0	0	0	0	0	0	0	0	520	0	520	0	0	0	520
2004 [1]	0	0	0	0	0	0	0	0	283	0	283	776	1,461	0	2,520
2005 [1]	0	0	0	0	0	0	0	0	0	0	0	411	0	0	411
2006 [1]	0	0	0	0	0	0	0	0	0	0	0	797	732	0	1,529
2007 [1]	0	0	0	0	0	0	0	0	718	0	718	612	1,926	0	3,256
2008 [1]	0	0	0	0	0	0	0	0	0	0	0	316	735	0	1,051
2009 [1]	0	0	0	0	0	0	0	0	660	0	660	1,642	2,948	0	5,250
2010 [1]	0	0	0	0	0	0	0	0	465	0	465	1,274	0	0	1,739
2011 [1]	0	0	0	0	0	0	0	0	267	0	267	1,468	0	0	1,735
2012 [1]	0	0	0	0	0	0	0	0	566	0	566	1,567	2,344	0	4,477
2013 [1]	0	0	0	0	0	0	0	0	0	0	0	2,069	4,649	0	6,718
2014 [1]	0	0	0	0	0	0	0	0	581	0	581	812	276	0	1,669
2015 [1]	0	0	0	0	0	0	0	0	663	0	663	1,780	0	0	2,443
2016 [1]	0	0	0	0	0	0	0	0	324	0	324	1,649	0	0	1,973
2017 [1]	0	0	0	0	0	0	0	0	0	0	0	691	530	0	1,221
2018 [1]	0	0	0	0	0	0	0	0	524	0	524	1,879	349	0	2,752
AVERAGE:															
1999-2018	0	0	0	0	0	0	0	0	279	0	279	929	868	0	2,076
% CHANGE FROM:															
Prev. Year												172%	-34%		125%
Average									88%		88%	102%	-60%		33%

[1] Preliminary

[2] Pacific Flyway total includes Alaska

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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 FLYWAY	ATL [2] FLYWAY	MISS [2] FLYWAY	PAC [3] FLYWAY	U.S.
1999	2,360	28,022		0	1,690		7,852		130,094		170,018	24,787	437,537		632,342
2000	1,610	27,724		10,308	3,244		9,597		196,688		249,171	21,376	430,937		701,484
2001	1,132	10,741		10,423	1,617		10,183		218,060		252,156	19,600	265,628		537,384
2002	470	8,723		4,775	1,065		2,645		62,035		79,713	13,123	112,946		205,782
2003 [1]	3,581	21,393		13,108	1,891		13,792		99,894		153,659	10,920	296,755		461,334
2004 [1]	4,287	19,173		6,060	517		2,767		63,033		95,837	6,688	106,309		208,834
2005 [1]	3,896	10,387		5,087	260		7,485		89,044		116,159	15,357	100,272		231,788
2006 [1]	2,340	23,664		11,167	2,079		10,971		133,622		183,843	17,845	265,213		466,901
2007 [1]	6,047	25,582		27,010	3,321		22,209		144,405		228,574	21,982	303,920		554,476
2008 [1]	4,657	15,120		20,037	256		8,586		59,247		107,903	5,370	195,150		308,423
2009 [1]	2,092	15,165		11,513	755		8,006		130,142		167,673	17,409	244,657		429,739
2010 [1]	2,518	16,829		12,112	565		7,507		113,926		153,457	27,003	291,509		471,969
2011 [1]	5,718	22,562		17,892	2,141		5,753		159,406		213,472	41,521	378,119		633,112
2012 [1]	4,595	19,420		14,868	769		14,087		195,222		248,961	25,071	554,675		828,707
2013 [1]	4,156	28,213		11,606	2,891		12,426		119,781		179,073	20,368	408,069		607,510
2014 [1]	7,621	36,736		31,039	4,013		6,568		162,623		248,600	19,807	321,890		590,297
2015 [1]	1,895	28,504		30,928	566		21,082		141,744		224,719	33,374	233,160		491,253
2016 [1]	2,798	22,910		11,311	0		8,386		196,916		242,321	17,581	53,179		313,081
2017 [1]	1,447	13,329		12,969	234		2,586		169,161		199,726	11,503	143,447		354,676
2018 [1]	933	33,918		20,071	2,251		1,410		180,388		238,971	18,516	166,004		423,491
AVERAGE:															
1999-2018	3,208	21,406		14,114	1,506		9,195		138,272		187,700	19,460	265,469		472,629
% CHANGE FROM:															
Prev. Year	-36%	154%		55%	862%		-45%		7%		20%	61%	16%		19%
Average	-71%	58%		42%	49%		-85%		30%		27%	-5%	-37%		-10%

[1] Preliminary

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[2] Includes harvest from special Wood duck/teal seasons in FL, KY, and TN initiated in 1981, and from an additional 4 teal-only days beginning in 2014

[3] Pacific Flyway total includes Alaska

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

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC [2] FLYWAY	U.S.
1999	4,559	6,936	1,663	14,039	1,091	23,808	682	22,167	30,816	1,480	107,241	57,089	298,936	58,968	522,234
2000	6,580	2,385	1,371	8,247	3,612	23,006	1,545	13,254	64,952	1,300	126,252	56,819	279,651	38,436	501,158
2001	2,758	1,074	1,281	11,668	1,155	33,981	429	24,577	46,556	241	123,720	52,762	362,642	42,831	581,955
2002	4,275	3,468	827	11,937	788	42,413	473	21,226	45,928	2,221	133,556	48,212	326,812	45,703	554,283
2003 [1]	3,837	4,258	704	7,380	473	37,097	206	16,844	37,634	1,036	109,469	34,952	303,138	57,426	504,985
2004 [1]	7,532	6,812	658	4,606	33	25,205	518	14,289	71,231	1,716	132,600	66,356	259,179	71,981	530,116
2005 [1]	5,499	1,588	1,255	14,243	445	34,758	1,470	14,770	44,712	816	119,556	61,790	213,807	76,592	471,745
2006 [1]	5,971	1,183	1,582	9,045	906	18,199	275	11,838	50,459	1,080	100,538	52,745	248,663	72,118	474,064
2007 [1]	8,803	1,296	1,466	13,785	687	26,097	1,047	9,951	53,643	1,337	118,112	67,670	322,800	58,092	566,674
2008 [1]	4,383	3,840	588	9,039	255	12,414	3,604	12,992	44,534	1,258	92,907	67,139	322,787	52,664	535,497
2009 [1]	1,255	3,654	433	4,983	118	21,404	757	17,323	78,700	697	129,324	97,070	487,937	46,568	760,899
2010 [1]	3,418	3,366	883	10,259	142	25,205	107	14,839	47,664	1,735	107,618	92,345	341,939	58,794	600,696
2011 [1]	3,649	4,131	2,055	10,862	556	53,846	1,569	28,501	39,719	1,031	145,919	92,915	326,528	52,675	618,037
2012 [1]	3,696	1,910	3,220	1,390	77	30,695	324	14,010	41,874	0	97,196	83,497	377,421	40,628	598,742
2013 [1]	7,327	20,414	4,682	23,734	723	58,271	666	25,219	81,617	1,845	224,498	55,295	534,839	43,178	857,810
2014 [1,3]	1,726	11,225	1,934	9,438	540	36,831	1,383	19,242	79,181	1,600	163,100	42,811	326,915	32,366	565,192
2015 [1,3]	1,422	11,312	796	13,746	41	70,676	937	27,514	38,336	580	165,360	55,610	273,156	28,507	522,633
2016 [1,3]	1,400	4,699	1,923	2,866	107	38,067	1,174	17,422	67,851	1,150	136,659	45,676	202,419	44,032	428,786
2017 [1,3]	1,447	3,025	922	4,235	352	39,711	136	8,644	64,799	1,438	124,709	56,210	295,936	58,753	535,608
2018 [1,3]	5,913	4,636	3,346	9,090	724	37,051	0	8,827	118,570	1,900	190,057	52,126	233,988	50,532	526,703
AVERAGE:															
1999-2018	4,273	5,061	1,579	9,730	641	34,437	865	17,172	57,439	1,223	132,420	61,954	316,975	51,542	562,891
% CHANGE FROM:															
Prev. Year	309%	53%	263%	115%	106%	-7%	-100%	2%	83%	32%	52%	-7%	-21%	-14%	-2%
Average	38%	-8%	112%	-7%	13%	8%	-100%	-49%	106%	55%	44%	-16%	-26%	-2%	-6%

[1] Preliminary

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[2] Pacific Flyway total includes Alaska

[3] Includes Bonus Blue-winged teal harvest during the first days of the regular season in MT, ND, SD, and WY

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

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC [2] FLYWAY	U.S.
1999	6,919	34,958	1,663	14,039	2,781	23,808	8,534	22,167	160,910	1,480	277,259	81,876	736,473	58,968	1,154,576
2000	8,190	30,109	1,371	18,555	6,856	23,006	11,142	13,254	261,640	1,300	375,423	78,195	710,588	38,436	1,202,642
2001	3,890	11,815	1,281	22,091	2,772	33,981	10,612	24,577	264,616	241	375,876	72,362	628,270	42,831	1,119,339
2002	4,745	12,191	827	16,712	1,853	42,413	3,118	21,226	107,963	2,221	213,269	61,335	439,758	45,703	760,065
2003 [1]	7,418	25,651	704	20,488	2,364	37,097	13,998	16,844	137,528	1,036	263,128	45,872	599,893	57,426	966,319
2004 [1]	11,819	25,985	658	10,666	550	25,205	3,285	14,289	134,264	1,716	228,437	73,044	365,488	71,981	738,950
2005 [1]	9,395	11,975	1,255	19,330	705	34,758	8,955	14,770	133,756	816	235,715	77,147	314,079	76,592	703,533
2006 [1]	8,311	24,847	1,582	20,212	2,985	18,199	11,246	11,838	184,081	1,080	284,381	70,590	513,876	72,118	940,965
2007 [1]	14,850	26,878	1,466	40,795	4,008	26,097	23,256	9,951	198,048	1,337	346,686	89,652	626,720	58,092	1,121,150
2008 [1]	9,040	18,960	588	29,076	511	12,414	12,190	12,992	103,781	1,258	200,810	72,509	517,937	52,664	843,920
2009 [1]	3,347	18,819	433	16,496	873	21,404	8,763	17,323	208,842	697	296,997	114,479	732,594	46,568	1,190,638
2010 [1]	5,936	20,195	883	22,371	707	25,205	7,614	14,839	161,590	1,735	261,075	119,348	633,448	58,794	1,072,665
2011 [1]	9,367	26,693	2,055	28,754	2,697	53,846	7,322	28,501	199,125	1,031	359,391	134,436	704,647	52,675	1,251,149
2012 [1]	8,291	21,330	3,220	16,258	846	30,695	14,411	14,010	237,096	0	346,157	108,568	932,096	40,628	1,427,449
2013 [1]	11,483	48,627	4,682	35,340	3,614	58,271	13,092	25,219	201,398	1,845	403,571	75,663	942,908	43,178	1,465,320
2014 [1]	9,347	47,961	1,934	40,477	4,553	36,831	7,951	19,242	241,804	1,600	411,700	62,618	648,805	32,366	1,155,489
2015 [1]	3,317	39,816	796	44,674	607	70,676	22,019	27,514	180,080	580	390,079	88,984	506,316	28,507	1,013,886
2016 [1]	4,198	27,609	1,923	14,177	107	38,067	9,560	17,422	264,767	1,150	378,980	63,257	255,598	44,032	741,867
2017 [1]	2,894	16,354	922	17,204	586	39,711	2,722	8,644	233,960	1,438	324,435	67,713	439,383	58,753	890,284
2018 [1]	6,846	38,554	3,346	29,161	2,975	37,051	1,410	8,827	298,958	1,900	429,028	70,642	399,992	50,532	950,194
AVERAGE:															
1999-2018	7,480	26,466	1,579	23,844	2,148	34,437	10,060	17,172	195,710	1,223	320,120	81,415	582,443	51,542	1,035,520
% CHANGE FROM:															
Prev. Year	137%	136%	263%	70%	408%	-7%	-48%	2%	28%	32%	32%	4%	-9%	-14%	7%
Average	-8%	46%	112%	22%	39%	8%	-86%	-49%	53%	55%	34%	-13%	-31%	-2%	-8%

[1] Preliminary

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[2] Pacific Flyway total includes Alaska

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

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL [2] FLYWAY	MISS [2] FLYWAY	PAC [3] FLYWAY	U.S.
1999	244	3,052		0	282		2,503		6,436		12,517	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	62,494
2001	1,273	1,790		1,089	1,386		1,715		20,882		28,135	7,649	12,036	0	47,820
2002	470	3,783		1,653	670		1,039		8,924		16,539	2,080	5,719	0	24,338
2003 [1]	1,791	9,024		3,635	1,032		3,500		12,660		31,642	3,186	27,174	0	62,002
2004 [1]	695	2,901		2,061	194		173		5,088		11,112	2,331	13,241	0	26,684
2005 [1]	1,375	2,200		1,243	148		668		8,025		13,659	2,420	9,260	0	25,339
2006 [1]	1,130	4,733		2,030	1,013		3,429		17,443		29,778	4,901	27,585	0	62,264
2007 [1]	2,757	4,534		4,809	401		2,514		14,369		29,384	1,344	20,595	0	51,323
2008 [1]	1,370	7,200		10,244	146		2,120		7,259		28,339	3,867	11,493	0	43,699
2009 [1]	418	2,375		1,890	283		2,055		13,190		20,211	3,174	7,775	0	31,160
2010 [1]	90	1,812		2,565	212		965		3,255		8,899	2,257	7,285	0	18,441
2011 [1]	852	1,748		1,438	86		523		13,328		17,975	2,530	14,908	0	35,413
2012 [1]	1,199	4,298		5,280	384		3,562		23,483		38,206	4,838	34,285	0	77,329
2013 [1]	1,312	2,323		1,174	402		1,553		4,598		11,362	1,431	12,728	0	25,521
2014 [1]	1,007	2,806		1,946	386		0		2,710		8,855	1,906	9,053	0	19,814
2015 [1]	711	3,620		4,296	202		937		3,646		13,412	1,263	7,259	0	21,934
2016 [1]	933	3,172		1,508	80		168		4,372		10,233	409	1,216	0	11,858
2017 [1]	1,158	4,821		4,764	117		272		16,681		27,813	777	8,473	0	37,063
2018 [1]	467	3,091		1,980	241		0		6,636		12,415	2,522	4,475	0	19,412
AVERAGE:															
1999-2018	1,001	3,695		2,764	431		1,594		10,671		20,157	3,275	13,772		37,203
% CHANGE FROM:															
Prev. Year	-60%	-36%		-58%	106%		-100%		-60%		-55%	225%	-47%		-48%
Average	-53%	-16%		-28%	-44%		-100%		-38%		-38%	-23%	-68%		-48%

[1] Preliminary

FILE: S:\CF_D\projects\Monitoring\harvest data\DATABOOK\HIP\TealharHIP.xls 11/06/19

[2] Includes harvest from special Wood duck/teal seasons in FL, KY, and TN initiated in 1981, and from an additional 4 teal-only days beginning in 2014

[3] Pacific Flyway total includes Alaska

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

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC [2] FLYWAY	U.S.
1999	6,919	21,918	2,743	29,776	3,908	19,992	34,252	24,067	193,873	1,567	339,015	232,627	889,529	529,706	1,990,877
2000	9,450	27,872	1,028	19,973	5,308	23,224	15,885	24,983	187,784	2,437	317,944	183,099	669,335	418,325	1,588,703
2001	8,062	20,049	1,442	18,669	5,660	13,399	12,863	22,477	195,467	3,374	301,462	141,445	576,040	334,806	1,353,753
2002	9,207	31,423	2,826	31,496	1,932	33,642	24,941	26,019	121,677	3,136	286,299	156,480	530,750	347,474	1,321,003
2003 [1]	16,114	24,536	1,106	22,140	4,127	26,116	18,630	24,063	113,248	3,649	253,729	133,969	671,389	368,625	1,427,712
2004 [1]	9,038	29,012	2,021	20,726	2,295	31,389	25,419	17,982	119,565	4,766	262,213	112,638	484,778	487,240	1,346,869
2005 [1]	6,416	13,197	1,654	16,165	5,529	21,594	29,139	14,396	233,501	1,741	343,332	118,252	504,590	508,967	1,475,141
2006 [1]	7,665	11,156	1,748	18,551	11,942	18,199	32,091	19,919	128,015	2,768	252,054	149,711	632,043	562,655	1,596,463
2007 [1]	9,159	22,182	2,328	26,448	5,840	18,077	53,427	14,234	187,990	1,823	341,508	155,693	771,587	631,083	1,899,871
2008 [1]	9,176	22,560	2,157	33,144	3,323	16,938	26,819	12,992	163,616	1,834	292,559	145,041	841,356	674,810	1,953,766
2009 [1]	5,578	23,569	4,225	16,153	1,983	20,623	24,558	12,568	132,120	2,539	243,916	132,460	747,458	539,080	1,662,914
2010 [1]	4,137	15,276	785	13,964	2,156	15,036	28,205	12,277	158,567	2,291	252,694	146,225	1,045,499	549,187	1,993,605
2011 [1]	8,029	18,113	959	25,719	1,198	19,453	39,487	17,186	177,800	1,698	309,642	109,572	986,994	507,811	1,914,019
2012 [1]	9,789	9,232	2,100	10,283	1,999	36,293	35,947	19,105	247,847	1,749	374,344	119,845	898,176	559,893	1,952,258
2013 [1]	9,953	32,861	2,281	26,863	3,212	26,320	32,175	15,928	168,521	2,399	320,513	111,682	835,629	417,964	1,685,788
2014 [1]	6,326	22,067	4,028	13,233	3,550	30,929	30,768	16,683	205,602	1,891	335,077	113,397	902,610	380,876	1,731,960
2015 [1]	12,555	17,193	1,273	20,081	1,700	29,520	24,050	19,470	80,097	1,493	207,432	88,079	522,158	452,018	1,269,687
2016 [1]	8,395	16,566	2,083	17,042	1,096	28,194	28,343	15,609	166,310	2,408	286,046	115,525	626,389	539,358	1,567,318
2017 [1]	4,196	15,126	1,843	15,881	3,986	30,437	33,487	21,990	209,794	4,041	340,781	100,470	709,152	538,791	1,689,194
2018 [1]	3,889	18,219	5,621	18,271	2,734	41,835	18,331	16,417	125,381	1,471	252,169	101,270	448,210	546,494	1,348,143
AVERAGE:															
1999-2018	8,203	20,606	2,213	20,729	3,674	25,061	28,441	18,418	165,839	2,454	295,636	133,374	714,684	494,758	1,638,452
% CHANGE FROM:															
Prev. Year	-7%	20%	205%	15%	-31%	37%	-45%	-25%	-40%	-64%	-26%	1%	-37%	1%	-20%
Average	-53%	-12%	154%	-12%	-26%	67%	-36%	-11%	-24%	-40%	-15%	-24%	-37%	10%	-18%

[1] Preliminary

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[2] Pacific Flyway total includes Alaska

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

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC [2] FLYWAY	U.S.
1999	7,163	24,970	2,743	29,776	4,190	19,992	36,755	24,067	200,309	1,567	351,532	241,552	908,239	529,706	2,031,029
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	418,325	1,651,197
2001	9,335	21,839	1,442	19,758	7,046	13,399	14,578	22,477	216,349	3,374	329,597	149,094	588,076	334,806	1,401,573
2002	9,677	35,206	2,826	33,149	2,602	33,642	25,980	26,019	130,601	3,136	302,838	158,560	536,469	347,474	1,345,341
2003 [1]	17,905	33,560	1,106	25,775	5,159	26,116	22,130	24,063	125,908	3,649	285,371	137,155	698,563	368,625	1,489,714
2004 [1]	9,733	31,913	2,021	22,787	2,489	31,389	25,592	17,982	124,653	4,766	273,325	114,969	498,019	487,240	1,373,553
2005 [1]	7,791	15,397	1,654	17,408	5,677	21,594	29,807	14,396	241,526	1,741	356,991	120,672	513,850	508,967	1,500,480
2006 [1]	8,795	15,889	1,748	20,581	12,955	18,199	35,520	19,919	145,458	2,768	281,832	154,612	659,628	562,655	1,658,727
2007 [1]	11,916	26,716	2,328	31,257	6,241	18,077	55,941	14,234	202,359	1,823	370,892	157,037	792,182	631,083	1,951,194
2008 [1]	10,546	29,760	2,157	43,388	3,469	16,938	28,939	12,992	170,875	1,834	320,898	148,908	852,849	674,810	1,997,465
2009 [1]	5,996	25,944	4,225	18,043	2,266	20,623	26,613	12,568	145,310	2,539	264,127	135,634	755,233	539,080	1,694,074
2010 [1]	4,227	17,088	785	16,529	2,368	15,036	29,170	12,277	161,822	2,291	261,593	148,482	1,052,784	549,187	2,012,046
2011 [1]	8,881	19,861	959	27,157	1,284	19,453	40,010	17,186	191,128	1,698	327,617	112,102	1,001,902	507,811	1,949,432
2012 [1]	10,988	13,530	2,100	15,563	2,383	36,293	39,509	19,105	271,330	1,749	412,550	124,683	932,461	559,893	2,029,587
2013 [1]	11,265	35,184	2,281	28,037	3,614	26,320	33,728	15,928	173,119	2,399	331,875	113,113	848,357	417,964	1,711,309
2014 [1]	7,333	24,873	4,028	15,179	3,936	30,929	30,768	16,683	208,312	1,891	343,932	115,303	911,663	380,876	1,751,774
2015 [1]	13,266	20,813	1,273	24,377	1,902	29,520	24,987	19,470	83,743	1,493	220,844	89,342	529,417	452,018	1,291,621
2016 [1]	9,328	19,738	2,083	18,550	1,176	28,194	28,511	15,609	170,682	2,408	296,279	115,934	627,605	539,358	1,579,176
2017 [1]	5,354	19,947	1,843	20,645	4,103	30,437	33,759	21,990	226,475	4,041	368,594	101,247	717,625	538,791	1,726,257
2018 [1]	4,356	21,310	5,621	20,251	2,975	41,835	18,331	16,417	132,017	1,471	264,584	103,792	452,685	546,494	1,367,555
AVERAGE:															
1999-2018	9,204	24,302	2,213	23,493	4,105	25,061	30,035	18,418	176,509	2,454	315,793	136,649	728,455	494,758	1,675,655
% CHANGE FROM:															
Prev. Year	-19%	7%	205%	-2%	-27%	37%	-46%	-25%	-42%	-64%	-28%	3%	-37%	1%	-21%
Average	-53%	-12%	154%	-14%	-28%	67%	-39%	-11%	-25%	-40%	-16%	-24%	-38%	10%	-18%

[1] Preliminary

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[2] Pacific Flyway total includes Alaska

ESTIMATED REGULAR SEASON REDHEAD HARVESTS (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC [2] FLYWAY	U.S.
1999	1,058	3,468	582	2,314	70	18,719	2,731	7,125	62,999	871	99,937	3,814	61,723	16,831	182,305
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	424	2,864	0	2,022	809	13,951	2,037	7,287	63,672	145	93,211	7,308	52,722	11,704	164,945
2002	611	2,838	207	1,837	118	5,767	2,551	959	14,148	523	29,559	2,324	27,564	10,917	70,364
2003 [1]	1,151	1,217	302	2,203	344	12,168	926	3,208	12,487	395	34,401	5,570	34,542	22,922	97,435
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	97,841
2005 [1]	1,528	3,788	399	3,391	408	20,785	2,005	3,926	40,127	326	76,683	9,291	62,051	20,881	168,906
2006 [1]	2,017	4,226	1,082	3,784	426	20,069	2,469	9,675	35,508	68	79,324	1,984	69,500	26,349	177,157
2007 [1]	2,846	1,619	690	2,404	344	21,387	3,562	9,447	42,148	365	84,812	7,235	63,027	18,957	174,031
2008 [1]	2,191	6,784	294	1,205	73	9,629	2,438	4,230	24,523	72	51,439	7,359	43,108	17,776	119,682
2009 [1]	1,116	2,923	1,192	2,578	189	32,663	3,029	7,020	29,018	249	79,977	12,129	59,860	17,850	169,816
2010 [1]	450	4,013	1,373	2,137	565	25,854	5,148	5,872	44,176	208	89,796	24,127	109,003	21,146	244,072
2011 [1]	487	2,542	1,233	3,355	257	24,277	6,930	4,010	79,703	182	122,976	9,893	155,227	33,322	321,418
2012 [1]	1,398	2,706	2,240	1,667	231	23,834	6,315	5,307	93,367	291	137,356	19,394	99,179	29,834	285,763
2013 [1]	2,406	7,468	2,881	3,130	402	27,699	7,545	7,566	75,179	185	134,461	35,902	121,598	18,242	310,203
2014 [1]	1,726	4,975	2,095	2,043	232	39,783	7,951	7,679	97,767	242	164,493	27,319	122,872	16,879	331,563
2015 [1]	3,080	4,675	318	859	0	27,150	3,279	6,490	64,630	83	110,564	26,169	86,213	11,482	234,428
2016 [1]	622	2,115	321	1,357	160	18,558	2,180	2,050	59,917	180	87,460	19,741	60,324	13,257	180,782
2017 [1]	1,013	2,836	503	2,250	234	14,839	1,361	3,051	58,383	274	84,744	23,809	57,348	14,995	180,896
2018 [1]	1,556	2,603	803	1,080	643	25,310	1,058	7,150	25,670	184	66,057	25,917	60,193	16,746	168,913
AVERAGE:															
1999-2018	1,349	3,426	889	2,152	306	20,015	3,465	5,461	50,102	292	87,454	14,097	71,500	18,865	191,916
% CHANGE FROM:															
Prev. Year	54%	-8%	60%	-52%	175%	71%	-22%	134%	-56%	-33%	-22%	9%	5%	12%	-7%
Average	15%	-24%	-10%	-50%	110%	26%	-69%	31%	-49%	-37%	-24%	84%	-16%	-11%	-12%

[1] Preliminary

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[2] Pacific Flyway total includes Alaska

ESTIMATES OF REGULAR SEASON CANVASBACK HARVESTS (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC [2] FLYWAY	U.S.
1999	81	832	582	926	106	7,633	1,366	1,742	20,284	87	33,639	5,566	40,510	20,127	99,842
2000	140	149	171	0	74	4,906	1,544	1,642	18,333	0	26,959	16,474	49,183	20,029	112,645
2001	141	537	160	311	0	4,973	214	371	7,189	96	13,992	1,578	11,578	9,482	36,630
2002 [1]	0	0	0	0	0	120	0	0	1,088	0	1,208	0	574	1,187	2,969
2003 [2]	128	101	151	551	43	2,671	823	936	2,601	0	8,005	4,738	9,821	11,381	33,945
2004 [2]	0	252	0	0	65	4,784	346	583	2,827	0	8,857	9,772	10,824	15,026	44,479
2005 [2]	229	489	114	452	37	7,621	1,470	561	6,497	0	17,470	4,433	32,786	9,729	64,418
2006 [2]	0	338	166	831	160	8,227	274	2,049	5,918	68	18,031	1,228	45,640	26,987	91,886
2007 [2]	267	324	0	240	229	6,111	1,467	630	5,987	0	15,255	6,988	56,432	46,533	125,208
2008 [2,3]	822	480	98	452	37	4,641	1,908	1,309	6,082	36	15,865	68	1,234	1,007	18,174
2009 [2]	279	731	217	0	71	8,361	1,947	679	4,617	348	17,250	7,389	27,831	17,923	70,393
2010 [2]	180	388	589	570	35	7,248	1,716	2,242	11,858	0	24,826	22,989	72,703	25,168	145,686
2011 [2]	730	2,860	822	1,597	214	8,092	4,315	1,575	21,592	243	42,040	5,349	68,358	25,113	140,860
2012 [1]	300	637	980	973	77	8,306	2,429	637	12,449	0	26,788	3,903	52,081	34,479	117,251
2013 [1]	109	1,494	480	0	161	7,471	3,107	1,062	18,163	0	32,047	13,111	76,103	38,453	159,714
2014 [1]	288	1,148	967	389	309	9,798	2,247	1,854	18,005	0	35,005	5,630	43,558	24,071	108,264
2015 [1]	474	452	636	107	121	10,235	1,249	1,463	6,960	0	21,697	1,909	30,696	31,912	86,214
2016 [1]	155	705	160	452	107	7,851	1,845	1,419	11,983	0	24,677	4,507	45,348	26,501	101,033
2017 [1]	0	851	168	397	117	7,504	681	1,716	16,895	0 0	28,329	10,693	40,087	20,911 0	100,020
2018 [1]	778	569	268	90	161	7,828	705	1,501	4,540	0 0	16,440	20,733	30,592	23,643 0	91,408
AVERAGE:															
1999-2018	255	667	336	417	106	6,719	1,483	1,199	10,193	44	21,419	7,353	37,297	21,483	87,552
% CHANGE FROM:															
Prev. Year		-33%	60%	-77%	38%	4%	4%	-13%	-73%		-42%	94%	-24%	13%	-9%
Average	205%	-15%	-20%	-78%	52%	17%	-52%	25%	-55%	-100%	-23%	182%	-18%	10%	4%

[1] Season was closed in the U.S. (except for AK)

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[2] Preliminary

[3] Season was closed in the U.S. (except for AK and the Central Flyway)

[4] Pacific Flyway total includes Alaska

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

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC [2] FLYWAY	U.S.
1999	733	4,717	0	2,006	669	6,724	12,176	7,442	58,708	871	94,046	147,511	264,504	47,040	553,101
2000	980	1,341	171	1,675	663	7,523	8,273	3,871	84,332	81	108,910	95,470	257,504	34,267	496,151
2001	849	2,685	721	2,334	693	6,769	3,323	4,199	57,853	48	79,474	89,486	230,667	38,507	438,134
2002	752	5,044	482	3,030	789	5,887	8,786	4,108	44,187	436	73,501	96,626	239,065	35,960	445,152
2003 [1]	1,023	4,765	101	2,533	860	3,413	7,617	2,139	39,715	197	62,363	112,806	230,202	36,326	441,697
2004 [1]	463	4,793	235	1,333	615	8,168	11,413	2,138	37,311	381	66,850	74,349	233,979	58,350	433,528
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	475,183
2006 [1]	2,017	8,113	83	2,030	533	12,465	15,360	5,236	40,803	473	87,113	144,491	353,705	71,264	656,573
2007 [1]	1,423	4,048	517	1,202	401	4,965	12,361	3,401	47,417	61	75,796	120,756	241,239	65,642	503,433
2008 [1]	685	7,680	588	1,055	511	6,497	12,084	4,532	33,351	108	67,091	131,717	251,356	50,427	500,591
2009 [1]	1,255	6,212	325	1,031	378	5,685	8,979	3,397	41,329	348	68,939	116,445	186,243	38,024	409,651
2010 [1]	540	4,660	98	712	318	10,493	11,046	6,085	33,015	208	67,175	94,349	268,411	61,147	491,082
2011 [1]	973	6,197	137	2,396	257	5,291	18,436	3,151	49,315	364	86,517	152,132	259,457	46,242	544,348
2012 [1]	1,199	3,661	980	1,251	0	9,209	16,840	5,731	40,459	0	79,330	179,582	324,658	67,874	651,444
2013 [1]	1,094	4,149	600	1,304	241	6,206	13,314	3,716	36,325	0	66,949	143,078	240,898	46,647	497,572
2014 [1]	863	2,679	2,739	487	386	13,458	8,816	3,001	50,723	242	83,394	117,832	250,727	46,106	498,059
2015 [1]	1,421	2,262	636	1,826	324	9,589	6,090	3,565	29,719	166	55,598	130,249	183,485	44,287	413,619
2016 [1]	155	2,702	641	1,961	134	8,446	7,715	2,286	42,266	72	66,378	136,499	188,185	50,721	441,783
2017 [1]	434	4,727	84	1,323	703	8,769	9,120	2,669	45,766	0 0	73,595	104,941	267,900	53,457 0	499,893
2018 [1]	622	1,789	937	2,430	563	11,916	7,579	4,060	58,325	123 0	88,344	123,096	182,667	61,248 0	455,355
AVERAGE:															
1999-2018	905	4,246	529	1,720	483	8,088	10,675	3,839	45,686	214	76,385	121,022	244,747	50,163	492,317
% CHANGE FROM:															
Prev. Year	43%	-62%	1015%	84%	-20%	36%	-17%	52%	27%		20%	17%	-32%	15%	-9%
Average	-31%	-58%	77%	41%	16%	47%	-29%	6%	28%	-43%	16%	2%	-25%	22%	-8%

[1] Preliminary

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[2] Pacific Flyway total includes Alaska

ESTIMATED REGULAR SEASON GREATER SCAUP HARVESTS (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC [2] FLYWAY	U.S.
1999	0	139	0	0	0	182	569	158	1,755	0	2,803	8,305	9,272	19,358	39,738
2000	70	0	86	129	0	218	110	0	1,833	0	2,446	12,850	19,085	19,384	53,765
2001	0	179	0	0	116	138	0	0	1,369	0	1,802	8,505	8,603	15,736	34,646
2002	47	210	69	735	0	120	189	411	1,959	0	3,740	17,639	29,228	19,989	70,596
2003 [1]	0	0	0	110	43	0	103	134	867	0	1,257	17,344	13,032	16,122	47,755
2004 [1]	0	126	0	0	0	350	346	583	2,261	0	3,666	16,837	28,056	22,958	71,517
2005 [1]	0	0	0	113	0	462	134	280	1,529	0	2,518	18,237	24,812	12,447	58,014
2006 [1]	161	169	0	92	0	249	137	0	1,869	0	2,677	10,523	21,454	13,125	47,779
2007 [1]	89	0	0	0	115	0	1,676	126	958	0	2,964	13,154	21,964	32,752	70,834
2008 [1]	0	240	0	0	0	348	106	0	1,962	0	2,656	10,646	24,649	11,514	49,465
2009 [1]	0	183	0	0	0	223	0	0	1,099	0	1,505	12,794	24,567	16,273	55,139
2010 [1]	0	0	98	0	0	108	322	214	930	0	1,672	23,535	23,692	20,916	69,815
2011 [1]	0	0	0	0	0	0	523	0	2,932	0	3,455	6,265	33,680	16,024	59,424
2012 [1]	0	0	0	0	0	181	0	212	1,415	0	1,808	19,231	40,968	35,894	97,901
2013 [1]	0	166	0	261	0	115	888	133	1,839	0	3,402	23,227	49,064	6,533	82,226
2014 [1]	0	0	0	97	0	0	346	88	3,098	0	3,629	9,700	37,927	10,838	62,094
2015 [1]	0	0	0	0	0	323	625	183	2,210	0	3,341	5,202	25,053	6,655	40,251
2016 [1]	0	0	0	0	0	238	168	79	648	0	1,133	10,507	34,574	18,648	64,862
2017 [1]	0	95	84	0	0	169	0	127	1,283	0	1,758	18,748	28,929	18,534	67,969
2018 [1]	0	163	0	90	0	87	353	88	1,572	0	2,353	28,972	35,375	15,801	82,501
AVERAGE:															
1999-2018	18	84	17	81	14	176	330	141	1,669	0	2,529	14,611	26,699	17,475	61,315
% CHANGE FROM:															
Prev. Year		72%	-100%			-49%		-31%	23%		34%	55%	22%	-15%	21%
Average	-100%	95%	-100%	11%	-100%	-50%	7%	-38%	-6%		-7%	98%	32%	-10%	35%

[1] Preliminary

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[2] Pacific Flyway total includes Alaska

ESTIMATED REGULAR SEASON LESSER SCAUP HARVESTS (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC [2] FLYWAY	U.S.
1999	163	277	582	1,389	0	18,174	455	3,483	12,873	348	37,744	64,263	80,808	29,261	212,076
2000	770	149	771	773	295	23,006	882	4,223	52,380	81	83,330	32,331	184,008	31,353	331,022
2001	424	895	80	933	231	23,483	429	3,582	41,764	96	71,917	111,237	170,824	30,221	384,199
2002	1,550	1,997	758	3,489	315	25,472	4,062	4,519	44,840	436	87,438	85,457	182,132	32,866	387,893
2003 [1]	895	913	201	2,644	129	17,065	1,647	3,208	17,863	444	45,009	60,939	145,607	39,032	290,587
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	54,441	63,698	111,357	29,471	258,967
2006 [1]	484	845	83	831	267	20,568	2,057	7,057	18,688	68	50,948	46,619	101,219	34,723	233,509
2007 [1]	178	648	345	561	286	16,168	2,514	4,157	15,806	0	40,663	46,594	84,791	52,006	224,054
2008 [1]	0	1,200	294	301	110	10,209	848	4,834	11,182	36	29,014	25,791	97,340	27,414	179,559
2009 [1]	279	731	325	344	71	26,197	433	4,189	11,212	249	44,030	35,908	111,522	30,608	222,068
2010 [1]	720	1,424	294	142	35	18,390	858	4,270	13,718	0	39,851	67,005	157,275	23,776	287,907
2011 [1]	122	1,271	822	639	0	12,294	1,700	3,437	23,191	61	43,537	46,195	114,903	22,791	227,426
2012 [1]	300	1,751	1,680	1,112	77	27,987	4,210	4,033	69,601	97	110,848	153,057	307,579	62,797	634,281
2013 [1]	437	996	2,281	1,174	0	13,677	3,994	1,725	22,071	277	46,632	60,416	97,873	41,363	246,284
2014 [1]	431	1,148	645	0	772	21,367	3,284	1,765	42,979	339	72,730	55,076	156,083	38,036	321,925
2015 [1]	1,421	151	0	215	0	19,501	781	4,662	14,915	41	41,687	37,438	118,419	28,553	226,097
2016 [1]	311	587	321	302	80	19,509	1,006	4,336	13,279	0	39,731	23,932	67,223	32,858	163,744
2017 [1]	723	1,229	168	132	234	21,415	1,089	2,669	44,910	137 0	72,706	50,424	185,503	22,226 0	330,859
2018 [1]	467	732	669	270	80	25,136	881	3,884	12,398	61 0	44,578	45,084	86,568	27,576 0	203,806
AVERAGE:															
1999-2018	543	948	531	822	151	20,076	1,746	4,115	27,079	171	56,182	58,318	133,469	34,464	282,433
% CHANGE FROM:															
Prev. Year	-35%	-40%	298%	105%	-66%	17%	-19%	46%	-72%		-39%	-11%	-53%	24%	-38%
Average	-14%	-23%	26%	-67%	-47%	25%	-50%	-6%	-54%	-20%	-21%	-23%	-35%	-20%	-28%

[1] Preliminary

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[2] Pacific Flyway total includes Alaska

ESTIMATED REGULAR SEASON TOTAL (LESSER & GREATER) SCAUP HARVESTS (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC [2] FLYWAY	U.S.
1999	163	416	582	1,389	0	18,356	1,024	3,641	14,628	348	40,547	72,568	90,080	48,619	251,814
2000	840	149	857	902	295	23,224	992	4,223	54,213	81	85,776	45,181	203,093	50,737	384,787
2001	424	1,074	80	933	347	23,621	429	3,582	43,133	96	73,719	119,742	179,427	45,957	418,845
2002	1,597	2,207	827	4,224	315	25,592	4,251	4,930	46,799	436	91,178	103,096	211,360	52,855	458,489
2003 [1]	895	913	201	2,754	172	17,065	1,750	3,342	18,730	444	46,266	78,283	158,639	55,154	338,342
2004 [1]	811	1,892	188	848	0	20,537	1,729	8,651	35,332	477	70,465	71,728	136,407	75,305	353,905
2005 [1]	382	244	114	452	37	22,171	2,540	4,487	26,369	163	56,959	81,935	136,169	41,918	316,981
2006 [1]	645	1,014	83	923	267	20,817	2,194	7,057	20,557	68	53,625	57,142	122,673	47,848	281,288
2007 [1]	267	648	345	561	401	16,168	4,190	4,283	16,764	0	43,627	59,748	106,755	84,758	294,888
2008 [1]	0	1,440	294	301	110	10,557	954	4,834	13,144	36	31,670	36,437	121,989	38,928	229,024
2009 [1]	279	914	325	344	71	26,420	433	4,189	12,311	249	45,535	48,702	136,089	46,881	277,207
2010 [1]	720	1,424	392	142	35	18,498	1,180	4,484	14,648	0	41,523	90,540	180,967	44,692	357,722
2011 [1]	122	1,271	822	639	0	12,294	2,223	3,437	26,123	61	46,992	52,460	148,583	38,815	286,850
2012 [1]	300	1,751	1,680	1,112	77	28,168	4,210	4,245	71,016	97	112,656	172,288	348,547	98,691	732,182
2013 [1]	437	1,162	2,281	1,435	0	13,792	4,882	1,858	23,910	277	50,034	83,643	146,937	47,896	328,510
2014 [1]	431	1,148	645	97	772	21,367	3,630	1,853	46,077	339	76,359	64,776	194,010	48,874	384,019
2015 [1]	1,421	151	0	215	0	19,824	1,406	4,845	17,125	41	45,028	42,640	143,472	35,208	266,348
2016 [1]	311	587	321	302	80	19,747	1,174	4,415	13,927	0	40,864	34,439	101,797	51,506	228,606
2017 [1]	723	1,324	252	132	234	21,584	1,089	2,796	46,193	137 0	74,464	69,172	214,432	40,760 0	398,828
2018 [1]	467	895	669	360	80	25,223	1,234	3,972	13,970	61 0	46,931	74,056	121,943	43,377 0	286,307
AVERAGE:															
1999-2018	562	1,031	548	903	165	20,251	2,076	4,256	28,748	171	58,711	72,929	160,168	51,939	343,747
% CHANGE FROM:															
Prev. Year	-35%	-32%	165%	173%	-66%	17%	13%	42%	-70%	-55%	-37%	7%	-43%	6%	-28%
Average	-17%	-13%	22%	-60%	-51%	25%	-41%	-7%	-51%	-64%	-20%	2%	-24%	-16%	-17%

[1] Preliminary

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[2] Pacific Flyway total includes Alaska

ESTIMATED REGULAR SEASON COMMON GOLDENEYE HARVESTS (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC [2] FLYWAY	U.S.
1999	163	694	166	154	211	545	0	158	780	87	2,958	9,690	22,587	15,413	50,648
2000	2,310	2,236	685	644	74	0	0	352	1,048	731	8,080	11,481	18,055	19,102	56,718
2001	990	895	881	156	0	691	214	247	1,369	675	6,118	6,014	23,406	13,081	48,619
2002	1,644	525	207	826	315	601	472	137	1,306	2,308	8,341	12,156	35,658	32,778	88,933
2003 [1]	3,581	913	503	1,101	129	890	721	1,471	694	1,677	11,680	13,439	28,299	41,931	95,349
2004 [1]	1,506	1,514	376	364	226	467	1,902	583	283	667	7,888	13,036	30,290	25,143	76,357
2005 [1]	535	122	399	226	0	115	535	467	382	544	3,325	18,760	23,420	25,941	71,446
2006 [1]	1,452	507	583	369	586	748	1,097	569	934	945	7,790	12,542	19,622	36,466	76,420
2007 [1]	445	486	690	1,362	115	255	1,467	630	1,916	729	8,095	14,739	26,478	29,099	78,411
2008 [1]	274	480	392	904	0	0	742	101	1,373	719	4,985	15,762	29,540	26,776	77,063
2009 [1]	279	1,096	433	172	24	780	1,082	226	0	1,344	5,436	12,747	30,017	36,141	84,341
2010 [1]	90	3,884	294	0	35	325	1,180	320	2,325	625	9,078	14,424	33,578	20,636	77,716
2011 [1]	1,217	318	1,096	1,438	214	311	654	143	2,133	1,698	9,222	12,463	39,306	30,741	91,732
2012 [1]	899	955	280	973	0	2,167	1,781	849	849	3,401	12,154	12,687	26,055	25,908	76,804
2013 [1]	656	664	480	782	0	805	222	664	230	3,875	8,378	14,689	29,593	29,316	81,976
2014 [1]	288	638	2,578	292	77	708	1,383	177	387	97	6,625	7,730	32,910	30,307	77,572
2015 [1]	948	905	318	215	81	754	1,562	274	994	290	6,341	6,784	25,123	19,990	58,238
2016 [1]	777	352	481	754	0	357	335	158	1,619	431	5,264	10,606	33,269	23,364	72,503
2017 [1]	289	1,891	587	662	0	590	136	127	1,925	479	6,686	9,422	31,870	26,966	74,944
2018 [1]	1,711	2,521	937	270	884	1,392	353	353	524	307	9,252	9,135	44,721	27,373	90,481
AVERAGE:															
1999-2018	1,003	1,080	618	583	149	625	792	400	1,054	1,081	7,385	11,915	29,190	26,824	75,314
% CHANGE FROM:															
Prev. Year	492%	33%	60%	-59%		136%	160%	178%	-73%	-36%	38%	-3%	40%	2%	21%
Average	71%	133%	52%	-54%	495%	123%	-55%	-12%	-50%	-72%	25%	-23%	53%	2%	20%

[1] Preliminary

[2] Pacific Flyway total includes Alaska

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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	ATL FLYWAY	MISS FLYWAY	PAC [2] 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	5,907	11,029	6,418	2,863	26,217
2001	71	0	0	311	0	1,243	214	865	1,369	0	4,073	7,206	4,609	5,452	21,340
2002	282	0	69	184	0	601	94	137	653	0	2,020	7,288	4,479	2,879	16,666
2003 [1]	0	406	0	110	0	742	0	267	173	49	1,747	2,474	10,943	5,632	20,796
2004 [1]	0	126	0	121	129	117	173	778	565	0	2,009	4,307	5,227	6,428	17,971
2005 [1]	153	122	0	0	0	115	267	467	1,146	218	2,488	11,709	4,235	5,742	24,174
2006 [1]	81	0	0	369	426	997	0	797	2,180	68	4,918	7,026	20,250	7,415	39,609
2007 [1]	0	0	172	160	0	1,528	629	630	718	0	3,837	8,679	10,891	6,130	29,537
2008 [1]	0	0	0	151	37	348	106	1,611	196	36	2,485	11,860	10,970	4,880	30,195
2009 [1]	279	0	0	0	0	3,233	108	453	2,638	0	6,711	9,275	12,243	6,536	34,765
2010 [1]	450	0	392	0	0	3,137	0	961	3,488	0	8,428	21,427	8,196	17,048	55,099
2011 [1]	487	1,589	0	160	86	2,179	0	3,151	2,399	0	10,051	5,531	21,717	9,449	46,748
2012 [1]	200	159	0	0	0	2,167	0	1,274	1,415	97	5,312	14,397	20,443	10,734	50,886
2013 [1]	219	498	0	130	241	2,184	444	398	3,219	0	7,333	14,353	8,933	15,666	46,285
2014 [1]	0	128	0	0	463	5,194	519	530	3,291	0	10,125	17,401	20,930	12,615	61,071
2015 [1]	237	452	0	0	0	2,801	0	366	2,099	0	5,955	6,713	4,805	8,254	25,727
2016 [1]	466	117	160	0	27	1,428	0	236	2,267	0	4,701	9,057	15,500	5,820	35,078
2017 [1]	0	189	0	0	117	1,265	0	127	1,711	137	3,546	10,983	7,142	4,933	26,604
2018 [1]	0	569	402	0	0	1,740	176	883	1,222	0	4,992	12,754	6,721	6,804	31,271
AVERAGE:															
1999-2018	165	254	60	113	76	1,642	159	817	1,874	43	5,202	11,133	11,053	7,844	35,232
% CHANGE FROM:															
Prev. Year		201%			-100%	38%		595%	-29%	-100%	41%	16%	-6%	38%	18%
Average	-100%	124%	573%	-100%	-100%	6%	11%	8%	-35%	-100%	-4%	15%	-39%	-13%	-11%

[1] Preliminary

[2] Pacific Flyway total includes Alaska

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ESTIMATED REGULAR SEASON HOODED MERGANSER HARVESTS (Harvest Information Program)

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC [2] 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	141	716	160	778	116	276	858	247	6,162	0	9,454	28,108	43,506	4,602	85,670
2002	188	1,261	0	459	39	601	1,039	0	6,312	87	9,986	31,791	58,936	2,832	103,545
2003 [1]	0	913	0	330	86	1,039	618	802	3,295	49	7,132	29,181	51,706	5,488	93,507
2004 [1]	116	1,388	94	485	33	817	865	194	1,979	95	6,066	25,692	47,469	3,998	83,225
2005 [1]	76	367	0	0	0	693	1,069	654	5,732	0	8,591	34,037	30,454	4,235	77,317
2006 [1]	161	338	0	92	53	249	1,509	114	2,803	0	5,319	37,182	37,241	2,857	82,599
2007 [1]	0	810	0	641	115	255	1,676	630	3,353	0	7,480	38,135	38,686	6,930	91,231
2008 [1]	0	1,440	196	452	0	580	2,438	302	3,531	0	8,939	38,212	38,037	4,390	89,578
2009 [1]	0	914	108	1,375	47	557	1,406	226	2,198	0	6,831	42,000	41,645	5,764	96,240
2010 [1]	90	777	0	0	177	865	1,930	107	3,488	0	7,434	36,148	45,988	6,317	95,887
2011 [1]	122	1,589	0	639	0	622	2,877	716	6,931	61	13,557	34,991	53,766	8,500	110,814
2012 [1]	0	796	0	139	0	1,444	1,295	849	2,546	0	7,069	39,200	45,886	7,681	99,836
2013 [1]	109	332	120	391	80	3,103	1,331	531	2,299	92	8,388	41,411	45,416	3,335	98,550
2014 [1]	144	765	0	97	154	1,535	1,210	265	3,872	0	8,042	30,378	54,723	4,663	97,806
2015 [1]	237	452	0	322	81	2,370	781	274	2,651	0	7,168	28,393	37,751	5,711	79,023
2016 [1]	155	1,175	160	0	0	1,071	671	79	7,287	36	10,634	38,323	50,167	3,579	102,703
2017 [1]	0	1,796	0	265	0	1,602	953	445	3,208	0	8,269	33,061	47,789	5,218	94,337
2018 [1]	0	2,115	0	180	0	1,218	2,115	1,059	4,016	0	10,703	31,516	33,738	6,519	82,476
AVERAGE:															
1999-2018	84	954	42	346	49	1,003	1,384	408	4,320	25	8,616	34,149	44,720	5,121	92,606
% CHANGE FROM:															
Prev. Year		18%		-32%		-24%	122%	138%	25%		29%	-5%	-29%	25%	-13%
Average	-100%	122%	-100%	-48%	-100%	21%	53%	159%	-7%	-100%	24%	-8%	-25%	27%	-11%

[1] Preliminary

[2] Pacific Flyway total includes Alaska

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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 [2] FLYWAY	U.S.
1999	68,129	203,226	44,891	189,301	21,580	538,499	266,047	302,900	1,232,475	28,471	2,895,519	1,828,974	7,599,866	3,127,306	15,451,665
2000	91,070	195,555	40,520	207,716	52,782	427,300	219,410	218,399	1,550,722	32,412	3,035,886	1,791,877	7,610,590	2,711,332	15,149,685
2001	118,597	168,267	37,723	206,289	51,983	491,201	153,503	294,307	1,449,058	36,390	3,007,318	1,694,218	6,410,705	2,392,193	13,504,434
2002	82,306	202,093	34,532	215,972	40,100	514,598	228,625	251,699	907,241	41,288	2,518,454	1,760,084	5,681,073	2,210,500	12,170,111
2003 [1]	115,360	203,184	46,496	214,457	52,359	496,800	207,506	254,400	703,244	35,705	2,329,511	1,608,124	6,171,916	2,504,383	12,613,934
2004 [1]	93,159	249,126	42,821	158,780	32,329	541,901	346,013	215,299	841,481	39,654	2,560,563	1,407,669	5,353,316	2,720,550	12,042,098
2005 [1]	69,509	145,413	36,397	158,368	27,308	519,400	276,949	179,199	1,158,327	25,945	2,596,815	1,590,959	5,150,356	2,903,655	12,241,785
2006 [1]	86,981	133,701	29,302	155,512	41,101	378,697	287,999	193,503	896,420	31,193	2,234,409	1,597,831	5,929,967	3,479,961	13,242,168
2007 [1]	84,389	135,523	33,543	175,518	27,429	373,002	433,278	182,900	914,566	36,955	2,397,103	1,658,559	6,366,702	3,518,554	13,940,918
2008 [1]	95,054	208,056	38,331	177,621	26,039	288,299	239,992	169,500	694,093	26,857	1,963,842	1,733,259	6,280,226	3,355,452	13,332,779
2009 [1]	76,554	176,862	43,004	143,998	27,262	473,000	253,039	225,200	836,470	32,705	2,288,094	1,657,916	5,843,914	2,862,080	12,652,004
2010 [1]	49,649	168,422	36,980	139,070	32,019	322,361	235,718	187,464	868,635	25,198	2,065,516	1,823,345	7,329,953	3,134,567	14,353,381
2011 [1]	58,030	178,112	34,799	203,036	28,813	460,646	297,856	226,143	1,217,676	32,025	2,737,136	1,627,165	7,580,310	3,288,945	15,233,556
2012 [1]	71,421	150,901	40,041	135,346	24,988	459,347	324,491	220,341	1,272,624	33,328	2,732,828	1,841,004	6,918,156	3,289,189	14,781,177
2013 [1]	95,476	235,335	54,378	177,479	31,318	466,744	356,814	201,087	924,914	46,224	2,589,769	1,600,571	6,447,738	2,429,089	13,067,167
2014 [1]	82,537	188,655	45,117	117,926	31,797	545,033	310,271	175,388	1,052,983	24,673	2,574,380	1,527,084	6,122,384	2,423,133	12,646,981
2015 [1]	89,311	204,053	36,278	131,446	22,051	509,275	239,090	180,717	588,187	18,988	2,019,396	1,300,285	4,570,152	2,574,318	10,464,151
2016 [1]	73,845	153,083	25,962	126,986	14,945	437,297	248,885	124,870	960,935	18,797	2,185,605	1,573,788	4,902,754	2,605,419	11,267,566
2017 [1]	75,670	137,833	24,050	119,766	41,970	426,370	194,250	129,465	1,019,032	30,889	2,199,295	1,545,308	5,179,044	2,771,116	11,694,763
2018 [1]	72,346	137,540	57,016	102,243	32,401	470,711	216,623	152,260	768,698	23,172	2,033,010	1,568,956	3,796,435	2,936,163	10,334,564
AVERAGE:															
1999-2018	82,470	178,747	39,109	162,842	33,029	457,024	266,818	204,252	992,889	31,043	2,448,222	1,636,849	6,062,278	2,861,895	13,009,244
% CHANGE FROM:															
Prev. Year	-4%	0%	137%	-15%	-23%	10%	12%	18%	-25%	-25%	-8%	2%	-27%	6%	-12%
Average	-12%	-23%	46%	-37%	-2%	3%	-19%	-25%	-23%	-25%	-17%	-4%	-37%	3%	-21%

[1] Preliminary

[2] Pacific Flyway total includes Alaska

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AGE RATIOS
IN THE U.S. HARVEST

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 FLYWAY	MISS FLYWAY	PAC FLYWAY	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
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
2001	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
2002	0.48	0.51	0.60	0.71	0.89	0.92	0.33	1.04	0.33	0.42	0.60	0.96	0.90	1.17	0.87
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
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
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
2006 [1]	0.73	0.75	0.96	1.04	0.84	2.36	0.63	1.63	0.69	0.86	1.05	1.35	1.44	1.82	1.45
2007 [1]	1.08	1.03	1.24	1.04	1.69	2.13	0.64	1.79	0.69	0.80	1.07	1.31	1.20	1.23	1.20
2008 [1]	0.55	0.65	0.75	0.67	1.21	1.33	0.27	1.20	0.41	0.54	0.70	1.22	1.06	1.19	1.04
2009 [1]	0.68	0.64	0.77	0.81	1.35	2.35	0.42	1.67	0.69	0.87	1.01	1.37	1.24	3.40	1.25
2010 [1]	0.86	1.26	1.02	1.34	1.49	2.44	0.64	2.50	0.87	1.30	1.29	1.30	1.59	1.63	1.53
2011 [1]	1.60	1.24	1.02	1.22	1.52	3.66	0.68	2.90	0.86	1.56	1.52	1.24	1.91	2.28	1.85
2012 [1]	0.92	0.74	1.15	0.99	1.31	3.20	0.39	2.37	0.66	1.09	1.17	1.38	1.68	1.35	1.46
2013 [1]	0.99	0.90	1.61	1.11	1.22	2.59	0.58	1.94	0.83	0.76	1.19	1.37	1.31	1.25	1.28
2014 [1]	1.10	1.10	1.30	1.50	1.90	3.20	0.70	2.30	1.00	0.80	1.43	1.33	1.66	1.25	1.50
2015 [1]	0.74	0.54	0.75	1.15	1.69	2.25	0.50	1.74	0.52	0.58	0.97	1.38	1.19	1.21	1.16
2016 [1]	0.65	0.59	0.57	0.77	1.12	1.66	0.41	1.75	0.51	0.68	0.78	1.24	1.09	1.25	1.07
2017 [1]	0.86	0.53	0.55	0.87	1.11	1.83	0.47	1.27	0.36	1.23	0.85	1.17	0.92	1.56	1.06
2018 [1]	0.67	0.63	1.12	0.86	0.66	2.22	0.42	1.65	0.58	0.76	0.90	1.12	1.07	0.94	1.00

[1] Preliminary

FEMALE MALLARD 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	1.16	1.35	1.36	1.35	1.33
2000	0.92	1.31	1.14	1.66	1.22
2001	1.38	1.81	2.52	1.95	2.09
2002	1.09	1.47	1.61	1.87	1.53
2003 [1]	1.67	1.89	2.47	2.48	2.26
2004 [1]	1.60	2.11	2.11	2.36	2.07
2005 [1]	2.63	2.40	3.13	3.38	3.02
2006 [1]	1.93	1.93	2.80	2.97	2.61
2007 [1]	2.10	1.73	2.09	1.84	1.94
2008 [1]	1.16	1.84	2.08	1.96	1.76
2009 [1]	2.19	2.00	2.78	2.28	2.31
2010 [1]	2.57	2.00	3.35	2.75	2.67
2011 [1]	2.68	1.84	3.79	4.12	3.11
2012 [1]	2.17	1.85	3.28	2.35	2.41
2013 [1]	2.49	2.00	2.70	2.02	3.00
2014 [1]	2.73	1.99	3.33	1.99	2.51
2015 [1]	2.01	2.10	2.68	2.00	2.23
2016 [1]	1.71	2.30	2.42	1.95	2.11
2017 [1]	1.80	2.06	2.05	2.67	2.22
2018 [1]	2.19	1.82	2.40	1.63	1.99

[1] Preliminary

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

YR	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC FLYWAY	U.S.
1999 [1]	0.61	0.74	0.70	0.83	0.72
2000 [1]	0.45	0.78	0.54	0.83	0.59
2001 [1]	0.57	0.90	1.02	1.00	0.88
2002 [1]	0.49	0.77	0.70	0.96	0.70
2003 [1]	0.72	1.04	1.11	1.23	1.03
2004 [1]	0.59	1.12	0.79	1.20	0.84
2005 [1]	1.01	1.25	1.28	1.62	1.29
2006 [1]	0.89	1.13	1.13	1.49	1.17
2007 [1]	0.89	1.13	0.99	1.04	1.01
2008 [1]	0.61	1.00	0.82	0.97	0.85
2009 [1]	0.82	1.12	0.93	1.16	1.01
2010 [1]	1.04	1.04	1.19	1.33	1.15
2011 [1]	1.27	1.01	1.45	1.81	1.39
2012 [1]	0.94	1.18	1.28	1.07	1.12
2013 [1]	0.95	1.12	0.98	1.03	2.09
2014 [1]	1.18	1.06	1.23	1.04	1.13
2015 [1]	0.80	1.12	0.87	1.00	0.93
2016 [1]	0.62	0.89	0.80	1.05	0.85
2017 [1]	0.68	0.90	0.67	1.29	0.92
2018 [1]	0.71	0.88	0.79	0.76	0.78

[1] Preliminary

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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	0.87	1.04	1.41	0.62	0.93
2002	1.06	1.34	1.79	0.95	1.27
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
2006 [1]	0.94	1.66	1.28	0.98	1.09
2007 [1]	0.82	1.70	1.43	1.03	1.13
2008 [1]	1.06	0.94	0.96	0.54	0.75
2009 [1]	1.09	0.66	1.30	0.98	1.07
2010 [1]	1.31	1.77	2.03	1.24	1.46
2011 [1]	0.90	1.30	1.67	1.44	1.35
2012 [1]	0.79	0.94	0.89	0.71	0.78
2013 [1]	1.06	1.18	1.71	0.98	1.21
2014 [1]	1.13	1.08	1.11	1.10	1.12
2015 [1]	0.98	0.68	0.88	0.70	0.79
2016 [1]	0.73	1.35	1.29	0.77	0.88
2017 [1]	0.86	1.31	1.30	0.88	1.01
2018 [1]	1.02	0.40	0.89	0.67	0.74

[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	1.00	0.82	1.32	0.78	1.14
2002	0.80	0.52	0.68	1.01	0.74
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
2006 [1]	0.94	1.35	1.39	1.13	1.19
2007 [1]	1.29	1.35	1.37	0.79	1.25
2008 [1]	0.70	0.79	0.74	0.79	0.74
2009 [1]	1.16	1.00	1.32	1.03	1.22
2010 [1]	1.68	1.82	1.72	1.34	1.66
2011 [1]	1.38	2.61	1.82	1.46	1.68
2012 [1]	0.95	1.13	1.21	0.84	1.10
2013 [1]	1.25	1.48	1.25	1.13	1.25
2014 [1]	1.29	1.68	1.32	1.32	1.33
2015 [1]	1.26	1.09	1.03	1.00	1.09
2016 [1]	0.94	1.28	1.02	0.97	1.01
2017 [1]	1.00	0.81	0.79	1.54	0.94
2018 [1]	1.10	0.92	1.10	1.09	1.09

[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	0.76	1.02	1.17	1.02	0.99
2002	0.88	0.92	1.31	1.67	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
2006 [1]	0.83	1.95	2.62	1.38	1.40
2007 [1]	0.82	1.22	1.65	1.31	1.26
2008 [1]	0.94	0.67	0.91	1.09	1.02
2009 [1]	0.71	0.66	1.37	1.29	1.10
2010 [1]	1.11	1.79	1.69	1.34	1.41
2011 [1]	0.76	1.43	1.97	1.76	1.48
2012 [1]	0.73	0.99	1.38	1.21	1.08
2013 [1]	0.84	1.03	1.27	1.52	1.24
2014 [1]	0.95	0.68	1.70	1.58	1.35
2015 [1]	1.14	0.93	2.37	1.27	1.31
2016 [1]	0.67	0.50	1.71	0.95	0.93
2017 [1]	0.89	1.09	1.54	1.22	1.19
2018 [1]	0.97	0.60	1.97	1.21	1.16

[1] Preliminary

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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	1.31	1.20	2.05	1.29	1.60
2002	1.03	1.15	1.67	1.25	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
2006 [1]	1.08	0.99	1.61	2.06	1.37
2007 [1]	1.64	0.97	1.28	1.12	1.18
2008 [1]	1.63	1.21	1.77	1.23	1.53
2009 [1]	1.01	1.31	2.05	2.08	1.71
2010 [1]	1.42	1.20	1.78	1.43	1.54
2011 [1]	1.09	0.90	1.22	1.69	1.12
2012 [1]	0.97	1.09	1.25	1.36	1.19
2013 [1]	1.11	1.45	1.45	1.23	1.43
2014 [1]	1.13	1.33	2.04	1.96	1.69
2015 [1]	2.34	1.32	1.74	2.18	1.61
2016 [1]	0.87	1.37	1.29	1.70	1.29
2017 [1]	1.63	1.36	1.19	2.71	1.32
2018 [1]	1.33	1.38	1.34	2.03	1.37

[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	0.71	0.46	1.97	0.44	0.93
2002	0.24	0.10	0.21	1.10	0.30
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
2006 [1]	2.13	1.47	2.32	1.50	2.07
2007 [1]	2.21	1.47	2.45	1.18	2.09
2008 [1]	0.56	0.13	0.68	0.52	0.56
2009 [1]	1.56	0.38	1.62	0.70	1.32
2010 [1]	3.47	1.93	6.54	1.27	3.69
2011 [1]	2.15	2.30	4.51	2.46	3.03
2012 [1]	1.51	0.92	2.29	1.12	1.62
2013 [1]	2.25	1.46	2.92	1.82	2.32
2014 [1]	3.19	1.94	2.88	1.39	2.80
2015 [1]	1.33	0.83	2.00	0.51	1.38
2016 [1]	0.68	0.72	1.12	0.73	0.81
2017 [1]	1.43	0.76	1.23	1.67	1.27
2018 [1]	1.79	0.48	1.08	1.29	1.18

[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	0.84
2000		0.75	1.54	1.27	1.23
2001		1.46	2.27	0.48	0.92
2002	3.31	1.65	2.87	0.94	1.82
2003 [1]		0.98	1.37	0.72	0.96
2004 [1]	8.65	2.06	3.05	1.71	2.39
2005 [1]		0.87	2.58	1.06	1.49
2006 [1]		1.81	1.80	0.56	1.33
2007 [1]		0.78	1.26	1.23	1.19
2008 [1]		0.37	0.79	1.22	0.80
2009 [1]		0.63	1.24	1.19	1.06
2010 [1]		0.57	1.15	0.64	0.80
2011 [1]		0.86	2.01	0.48	1.22
2012 [1]		0.79	0.98	1.06	0.95
2013 [1]		1.85	1.09	1.52	1.38
2014 [1]		1.15	1.53	1.21	1.45
2015 [1]	1.28	1.69	2.21	1.31	1.82
2016 [1]		2.71	3.31	0.92	2.15
2017 [1]		1.21	2.31	1.19	1.50
2018 [1]		0.37	1.44	1.41	0.91

[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	1.04	0.67	0.60	1.65	0.75
2002	1.35	0.47	0.85	1.66	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
2006 [1]	1.13	0.85	1.79	1.77	1.39
2007 [1]	1.08	0.77	1.05	1.36	1.05
2008 [1]	0.67	0.46	0.63	2.57	0.75
2009 [1]	0.82	0.52	0.53	1.37	0.66
2010 [1]	1.23	0.80	1.54	1.07	1.24
2011 [1]	1.29	1.18	1.55	1.29	1.39
2012 [1]	1.09	0.46	0.66	2.07	0.74
2013 [1]	2.22	0.58	1.15	1.41	1.14
2014 [1]	0.78	0.83	0.86	1.82	0.91
2015 [1]	0.83	0.88	0.88	1.47	0.93
2016 [1]	1.12	1.18	1.33	1.14	1.21
2017 [1]	1.01	0.91	1.06	1.81	1.06
2018 [1]	0.85	0.39	0.52	1.67	0.64

[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	2.27	1.24	2.42	1.20	2.19
2002	1.90	0.80	1.96	1.13	1.74
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
2006 [1]	2.10	1.39	1.75	1.07	1.74
2007 [1]	2.85	1.24	1.87	1.73	2.03
2008 [1]	1.59	0.86	0.92	0.83	1.03
2009 [1]	1.42	0.96	1.24	0.63	1.22
2010 [1]	1.57	0.97	1.71	0.94	1.52
2011 [1]	2.36	1.97	1.59	1.34	1.79
2012 [1]	1.85	1.25	1.29	1.14	1.39
2013 [1]	2.19	0.98	1.49	1.68	1.62
2014 [1]	1.46	0.85	1.16	1.19	1.24
2015 [1]	1.43	1.18	1.28	0.74	1.30
2016 [1]	0.95	0.93	1.26	0.83	1.04
2017 [1]	1.18	1.57	1.75	1.09	1.45
2018 [1]	1.59	0.94	1.76	1.30	1.57

[1] Preliminary 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	1.79	1.16	1.98	1.03	1.56
2002	1.78	1.85	2.13	1.40	1.81
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
2006 [1]	1.97	2.00	2.30	1.45	1.89
2007 [1]	1.83	1.90	1.98	1.22	1.66
2008 [1]	1.68	1.61	1.68	0.92	1.26
2009 [1]	1.59	1.62	1.23	1.05	1.25
2010 [1]	1.68	1.95	1.61	0.87	1.39
2011 [1]	1.81	1.97	2.00	1.28	1.75
2012 [1]	1.39	2.05	1.60	0.93	1.36
2013 [1]	1.71	1.77	1.80	1.35	1.66
2014 [1]	1.53	1.68	1.48	1.30	1.46
2015 [1]	1.53	1.66	1.63	1.27	1.48
2016 [1]	1.20	1.70	1.58	0.90	1.24
2017 [1]	1.59	1.52	1.50	1.09	1.38
2018 [1]	1.36	1.42	1.01	0.81	1.01

[1] Preliminary and based on all-season harvest.

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MALLARD SEX RATIOS IN THE U.S. HARVEST

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

YR	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC FLYWAY	U.S.
1999	3.57	2.70	2.77	2.90	2.91
2000	4.27	2.43	3.27	3.25	3.33
2001	4.76	2.82	3.79	3.25	3.79
2002	4.42	2.84	3.42	3.24	3.52
2003 [1]	4.98	2.83	3.65	3.40	3.75
2004 [1]	5.62	2.75	4.30	3.92	4.31
2005 [1]	5.31	3.00	4.17	3.79	4.12
2006 [1]	5.51	2.72	4.47	3.51	4.13
2007 [1]	5.96	2.40	4.13	3.22	3.93
2008 [1]	5.53	2.88	4.39	3.67	4.12
2009 [1]	6.44	2.64	5.08	3.38	4.39
2010 [1]	5.32	2.70	4.38	3.71	4.03
2011 [1]	4.91	2.78	4.16	3.95	3.95
2012 [1]	4.52	2.39	4.05	3.60	3.64
2013 [1]	5.43	2.63	4.24	3.55	3.97
2014 [1]	5.34	2.43	3.97	3.50	3.81
2015 [1]	5.94	2.86	4.84	3.91	4.62
2016 [1]	6.08	3.20	4.53	3.61	4.48
2017 [1]	5.49	3.19	4.54	4.09	4.44
2018 [1]	6.70	3.09	4.93	3.79	4.68

[1] Preliminary

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

YR	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC FLYWAY	U.S.
1999	1.87	1.48	1.46	1.78	1.58
2000	2.10	1.40	1.54	1.60	1.60
2001	1.96	1.40	1.51	1.66	1.59
2002	1.98	1.49	1.46	1.64	1.57
2003 [1]	2.22	1.57	1.67	1.73	1.74
2004 [1]	2.14	1.48	1.64	2.03	1.77
2005 [1]	2.12	1.57	1.75	1.85	1.80
2006 [1]	2.53	1.59	1.80	1.76	1.85
2007 [1]	2.53	1.57	1.95	1.83	1.97
2008 [1]	2.92	1.57	1.73	1.82	2.01
2009 [1]	2.42	1.48	1.71	1.72	1.83
2010 [1]	2.14	1.41	1.55	1.80	1.73
2011 [1]	2.33	1.53	1.59	1.74	1.80
2012 [1]	1.97	1.52	1.58	1.64	1.68
2013 [1]	2.07	1.48	1.53	1.80	1.72
2014 [1]	2.30	1.30	1.43	1.84	1.72
2015 [1]	2.36	1.53	1.58	1.96	1.88
2016 [1]	2.22	1.24	1.50	1.95	1.76
2017 [1]	2.06	1.39	1.48	1.97	1.76
2018 [1]	2.16	1.49	1.62	1.78	1.78

[1] Preliminary

DUCK HARVESTS IN CANADA

ESTIMATES OF MALLARD HARVESTS IN CANADA

YR	NF	PE	NS	NB	PQ	ON	MB	SK	AB	BC	NT	YT	NUN [2]	TOTAL
1969[1]	215	217	738	571	26,117	194,954	253,620	336,342	403,587	109,084	N/A	N/A		1,325,445
1970[1]	0	58	508	681	28,511	172,516	272,411	505,542	502,804	107,062	N/A	N/A		1,590,093
1971[1]	0	326	475	602	34,776	178,310	184,727	465,149	451,912	93,375	N/A	N/A		1,409,652
1972	285	131	975	642	60,829	250,848	210,706	480,045	567,097	116,215	N/A	N/A		1,687,773
1973	71	306	787	1,090	59,294	243,853	148,687	352,289	541,772	103,525	N/A	N/A		1,451,674
1974	333	231	625	1,156	66,175	253,090	145,168	490,951	690,092	107,971	N/A	N/A		1,755,792
1975	774	405	972	583	57,791	296,173	159,143	567,985	521,935	122,725	1,698	797		1,730,981
1976	770	256	1,444	795	71,851	322,047	204,600	606,239	609,576	114,198	3,229	898		1,935,903
1977	836	196	2,371	700	81,803	268,893	165,258	391,986	510,395	131,035	3,073	584		1,557,130
1978	850	259	1,133	1,557	61,507	322,006	239,299	395,276	382,319	115,038	2,098	1,290		1,522,632
1979	555	465	744	1,570	70,597	266,117	245,016	419,509	485,014	117,176	1,182	1,673		1,609,618
1980	0	948	3,057	1,437	82,027	290,941	210,153	355,042	480,188	104,768	2,551	2,473		1,533,585
1981	2,947	1,461	2,537	2,491	91,950	279,541	175,215	231,117	392,274	114,672	1,703	1,033		1,296,941
1982	464	410	1,407	1,792	93,289	335,813	148,864	241,734	296,124	92,492	1,552	0		1,213,941
1983	1,069	937	4,046	2,558	87,352	297,944	160,522	284,403	364,000	121,758	2,417	603		1,327,609
1984	1,100	738	2,122	1,668	67,433	284,128	117,208	183,300	306,234	89,453	4,501	1,366		1,059,251
1985	797	1,149	3,312	3,268	97,274	293,349	87,173	157,833	180,046	81,965	4,153	757		911,076
1986	2,923	755	3,137	2,526	84,304	265,478	112,363	151,384	182,748	72,263	811	433		879,125
1987	1,022	728	3,693	3,142	116,452	315,101	136,678	154,961	211,929	75,591	1,120	192		1,020,609
1988	0	921	2,304	1,611	83,727	233,686	64,325	75,810	139,558	63,657	2,543	412		668,554
1989	1,319	930	4,324	2,232	79,327	262,933	70,133	75,680	188,562	57,357	437	773		744,007
1990	1,085	1,000	3,556	3,179	87,045	261,036	60,853	79,379	175,884	60,443	865	288		734,613
1991	949	1,106	3,712	4,582	84,483	229,026	60,933	70,050	122,105	51,458	94	641		629,139
1992	863	199	6,407	5,243	87,824	196,647	65,992	68,765	94,795	52,172	605	298		579,810
1993	1,025	1,178	5,029	3,755	100,032	202,647	42,969	50,351	83,094	45,181	1,178	560		536,999
1994	795	864	3,305	2,894	107,222	197,833	57,924	88,848	113,068	50,412	2,042	205		625,412
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	151,164	55,513	437	126		718,695
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	65,130	195,276	107,203	49,272	510	72	0	676,376
2001	601	1,192	5,721	7,047	79,896	166,629	92,115	107,413	94,699	35,575	643	229	0	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	0	546,594
2003	696	804	4,711	6,511	58,873	138,099	66,403	126,397	73,088	35,384	410	110	0	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	0	523,728
2005	754	1,681	4,544	4,732	72,231	115,284	87,315	144,393	78,798	33,586	688	0	0	544,006
2006	753	1,122	5,490	6,389	72,245	124,751	111,026	174,174	88,533	28,928	215	0	0	613,626
2007	1,837	1,289	5,711	7,030	65,187	119,403	68,121	163,912	82,133	30,167	897	265	0	545,952
2008	48	1,725	4,748	5,662	69,991	119,971	60,690	150,906	97,567	35,924	0	488	0	547,720
2009	80	651	4,079	3,377	65,216	106,537	61,460	135,546	62,778	32,736	0	67	0	472,527
2010	1,319	2,197	4,057	4,683	57,138	105,904	48,076	127,207	67,681	28,057	0	0	0	446,319
2011	670	3,434	5,296	5,501	62,037	105,529	59,170	143,258	91,670	32,990	334	0	0	509,889
2012	767	1,475	3,060	5,682	55,862	79,180	67,173	188,383	89,249	36,160	415	928	0	528,334
2013	0	758	7,500	9,689	47,579	107,319	42,549	193,591	106,935	29,986	923	0	0	546,829
2014	1,397	1,602	3,000	5,647	56,092	116,812	30,927	163,468	93,733	26,996	0	440	0	500,114
2015	650	1,779	7,082	6,647	54,653	114,114	56,624	179,718	88,206	28,664	0	0	0	538,137
2016	1,420	1,358	6,564	6,712	47,530	77,234	64,567	159,158	83,694	23,686	0	0	0	471,923
2017	334	1,292	4,829	5,456	50,497	83,591	36,119	133,725	89,114	25,962	658	0	0	431,577
2018	329	1,019	3,487	6,282	42,549	82,967	37,245	168,068	83,522	25,204	0	168	0	450,840
AVERAGES:														
1972-79	559	281	1,131	1,012	66,231	277,878	189,735	463,035	538,525	115,985	2,256	1,048		1,656,438
1980-89	1,164	898	2,994	2,273	88,314	285,891	128,263	191,126	274,166	87,398	2,179	804		1,065,470
1990-99	988	822	5,091	4,658	85,560	191,524	74,863	102,849	119,178	49,907	894	289		636,622
2000-2009	857	1,366	5,223	5,798	69,711	133,306	76,622	144,650	84,378	34,746	534	188	0	557,378
2010-2018	765	1,657	4,986	6,255	52,660	96,961	49,161	161,842	88,200	28,634	259	171	0	491,551
1972-2018	882	1,022	3,979	4,078	73,184	195,806	101,230	203,130	210,196	61,832	1,129	445	0	856,812

[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.

[2] Nunavut separated from the Northwest Territories on April 1, 1999.

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ESTIMATES OF PINTAIL HARVESTS IN CANADA

YR	NF	PE	NS	NB	PQ	ON	MB	SK	AB	BC	NT	YT	NUN [2]	TOTAL
1969[1]	522	797	413	916	13,766	9,793	20,391	27,221	43,576	20,892	N/A	N/A		138,287
1970[1]	379	1,123	872	1,566	18,831	12,960	30,729	48,583	66,169	30,063	N/A	N/A		211,275
1971[1]	307	646	446	1,037	19,816	8,548	18,001	37,164	61,676	24,555	N/A	N/A		172,196
1972	443	417	646	522	18,018	9,322	17,835	28,066	71,523	48,793	N/A	N/A		195,585
1973	601	482	560	934	17,090	10,579	18,613	29,876	91,457	48,669	N/A	N/A		218,861
1974	875	1,371	1,099	1,166	18,556	10,867	10,365	50,512	101,753	23,704	N/A	N/A		220,268
1975	1,092	431	612	787	21,999	9,644	20,611	55,909	81,637	23,758	72	417		216,969
1976	1,507	651	911	1,772	27,578	17,112	17,545	34,693	59,532	38,626	385	277		200,589
1977	2,438	1,653	1,302	1,127	39,531	14,333	11,245	20,469	69,906	29,467	137	313		191,921
1978	824	829	730	1,571	21,298	13,077	21,072	14,051	38,039	22,830	698	216		135,235
1979	1,693	579	474	1,036	14,958	9,331	19,745	30,588	48,505	17,735	691	287		145,622
1980	905	510	757	1,385	16,722	13,248	12,872	16,868	44,003	21,392	0	108		128,770
1981	1,536	747	952	1,144	17,440	11,977	16,127	2,430	39,745	18,658	91	148		110,995
1982	0	1,531	1,011	1,480	20,791	10,946	13,290	12,598	29,130	14,021	0	0		104,798
1983	2,809	523	696	303	15,868	10,767	11,195	17,056	27,154	13,385	1,864	175		101,795
1984	1,702	1,047	718	908	9,253	10,133	13,131	12,343	34,016	19,661	168	337		103,417
1985	1,468	748	1,461	1,820	16,525	15,340	9,790	8,148	24,056	11,252	0	502		91,110
1986	632	565	847	1,842	13,163	9,061	6,988	9,077	8,632	8,885	0	296		59,988
1987	792	2,218	633	1,018	11,865	6,020	5,479	8,386	19,668	10,945	0	158		67,182
1988	1,959	1,466	489	655	12,115	8,016	13,815	5,326	14,644	10,872	0	0		69,357
1989	1,433	661	341	1,421	15,427	11,506	7,559	4,368	11,743	8,457	44	0		62,960
1990	4,062	510	647	1,711	19,645	8,208	5,262	9,998	13,480	7,792	281	41		71,637
1991	351	542	901	844	9,357	4,742	4,407	4,023	5,689	4,179	112	73		35,220
1992	0	910	79	464	6,221	4,861	5,236	2,126	6,914	6,393	136	77		33,417
1993	1,090	1,336	852	706	11,401	5,156	5,172	3,253	4,025	4,701	61	0		37,753
1994	934	765	1,163	1,136	11,307	4,649	4,866	7,302	7,518	4,738	0	64		44,442
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	13,882	5,422	37	0		60,761
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	6,849	16,168	13,603	5,825	50	0	0	56,431
2001	137	0	401	611	4,911	3,709	9,216	7,051	8,732	4,807	19	60	0	39,654
2002	1,153	78	543	702	5,527	9,910	13,879	13,055	7,640	4,551	0	0	0	57,038
2003	572	598	228	1,270	6,795	10,422	8,999	8,688	8,205	1,948	234	0	0	47,959
2004	30	317	129	702	6,394	5,208	12,624	23,803	8,380	2,363	0	0	0	59,950
2005	256	313	308	536	4,677	3,178	6,653	13,450	10,769	3,675	0	0	0	43,815
2006	176	939	90	382	5,067	4,861	8,579	11,853	12,527	2,004	39	0	0	46,517
2007	228	584	660	634	5,533	5,059	13,329	18,054	10,085	2,410	224	0	0	56,800
2008	427	252	393	427	4,867	5,745	7,911	15,076	12,833	2,989	0	0	0	50,920
2009	0	190	104	504	4,039	4,684	4,582	17,226	6,138	2,837	0	22	0	40,326
2010	321	943	824	609	6,266	6,480	4,862	13,530	6,728	2,228	0	0	0	42,791
2011	302	0	578	263	3,287	1,670	6,188	20,217	14,053	2,755	0	0	0	49,313
2012	0	435	62	0	2,216	2,364	2,519	15,474	14,307	4,464	0	0	0	41,841
2013	612	671	696	721	7,060	4,850	3,796	19,243	15,786	2,357	0	0	0	55,792
2014	88	0	532	109	2,729	3,350	3,903	30,717	20,996	3,603	0	440	0	66,467
2015	0	333	355	303	2,435	3,171	7,928	11,790	10,678	2,528	0	0	0	39,521
2016	430	0	287	162	2,780	2,861	7,469	11,869	7,920	2,492	0	0	0	36,270
2017	437	0	0	209	1,437	4,224	3,428	28,390	13,135	2,092	0	0	0	53,352
2018	349	0	442	302	2,482	2,993	2,648	15,714	9,429	1,986	0	168	0	36,513
AVERAGES:														
1972-79	1,184	802	792	1,114	22,379	11,783	17,129	33,021	70,294	31,698	397	302		190,631
1980-89	1,324	1,002	791	1,198	14,917	10,701	11,025	9,660	25,279	13,753	217	172		90,037
1990-99	1,161	627	703	1,038	9,492	5,456	8,167	8,307	9,013	5,499	65	53		49,579
2000-2009	345	378	336	635	5,429	5,817	9,262	14,442	9,891	3,341	57	8	0	49,941
2010-2018	282	265	420	298	3,410	3,551	4,749	18,549	12,559	2,723	0	68	0	46,873
1972-2018	858	614	604	857	10,811	7,361	9,879	16,068	23,770	10,724	122	101	0	81,755

[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.
[2] Nunavut separated from the Northwest Territories on April 1, 1999.

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ESTIMATES OF ALL-DUCK HARVESTS IN CANADA

YR	NF	PE	NS	NB	PQ	ON	MB	SK	AB	BC	NT	YT	NUN [2]	TOTAL
1969[1]	71,772	22,842	56,103	55,553	379,547	748,796	423,138	478,762	624,473	229,398	N/A	N/A		3,090,384
1970[1]	76,387	25,144	70,159	52,714	389,891	728,404	471,608	684,287	737,527	237,532	N/A	N/A		3,473,653
1971[1]	59,232	27,914	78,223	50,130	402,675	609,481	317,300	605,568	696,844	195,189	N/A	N/A		3,042,556
1972	88,638	20,360	77,385	55,035	436,665	853,308	354,561	617,262	821,582	266,630	N/A	N/A		3,591,426
1973	70,434	15,936	80,655	45,941	451,148	735,487	264,676	481,425	822,528	248,879	N/A	N/A		3,217,109
1974	101,000	31,255	102,301	58,124	556,556	803,378	252,503	704,767	1,001,454	205,291	2,994	896		3,820,519
1975	102,344	28,448	117,968	58,048	461,878	950,370	305,809	802,629	839,225	235,448	3,509	3,396		3,909,072
1976	98,322	37,504	118,038	68,027	601,074	978,182	351,783	807,735	881,807	231,421	6,573	3,319		4,183,785
1977	132,957	30,180	134,485	53,803	630,044	913,830	259,408	509,728	778,679	259,488	5,656	2,417		3,710,675
1978	142,686	30,048	109,547	65,862	527,989	942,980	360,877	527,398	580,351	210,763	5,857	2,825		3,507,183
1979	121,861	20,936	88,401	49,271	469,363	844,916	383,250	582,384	679,022	204,606	4,075	3,018		3,451,103
1980	106,066	31,826	124,761	59,783	500,434	912,988	335,577	443,919	687,370	185,832	5,885	2,969		3,397,410
1981	113,877	26,243	113,582	59,082	507,706	849,216	293,992	273,357	526,197	186,699	3,622	1,328		2,954,901
1982	111,122	38,504	87,941	61,318	514,402	859,526	269,613	324,541	458,663	163,191	1,552	1,060		2,891,433
1983	119,512	36,370	117,295	72,849	453,807	888,678	285,594	380,169	515,356	193,600	6,749	3,173		3,073,152
1984	115,454	34,922	95,739	68,816	439,202	832,646	214,678	258,466	439,086	174,322	6,280	2,580		2,682,191
1985	110,041	31,139	92,473	69,523	494,433	871,818	174,453	210,541	283,491	145,849	8,307	2,172		2,494,240
1986	124,331	29,582	99,882	70,855	433,562	821,763	207,559	226,165	273,044	125,037	3,627	1,415		2,416,822
1987	74,331	28,901	78,359	59,426	467,042	759,035	208,576	200,833	297,081	126,703	2,504	902		2,303,693
1988	83,838	34,145	85,406	63,403	445,555	663,940	125,905	104,509	182,437	115,666	2,967	1,052		1,908,823
1989	92,687	21,622	120,726	64,448	433,785	682,797	121,028	104,122	254,798	102,900	1,205	773		2,000,891
1990	91,543	20,110	104,040	70,539	456,331	684,440	111,839	115,659	231,916	96,165	2,142	453		1,985,177
1991	55,430	28,054	76,588	47,276	356,978	620,344	106,827	102,879	166,312	80,404	737	1,100		1,642,929
1992	62,769	15,055	95,708	52,280	342,974	541,553	118,701	92,556	129,133	82,283	1,230	828		1,535,070
1993	66,613	22,756	95,149	51,089	396,462	582,033	93,665	76,729	123,711	72,835	1,780	1,339		1,584,161
1994	81,991	18,313	91,725	53,883	355,414	517,677	116,975	130,479	169,519	78,692	2,043	901		1,617,612
1995	67,360	27,892	93,198	74,273	299,000	512,933	135,147	149,321	152,794	62,223	2,156	1,393		1,577,690
1996	56,531	19,257	79,991	56,202	255,648	460,414	168,502	190,133	183,079	72,241	1,988	597		1,544,583
1997	57,710	21,371	74,204	50,634	261,923	461,371	183,466	204,210	229,747	81,179	1,667	392		1,627,874
1998	61,368	15,361	82,094	59,803	256,382	425,275	175,742	205,544	170,070	87,429	1,985	1,102		1,542,155
1999	51,465	19,923	86,556	56,642	270,264	385,576	162,354	233,178	157,614	70,934	1,431	307		1,496,244
2000	63,617	13,540	69,188	52,475	244,487	367,334	148,147	242,275	160,685	73,411	1,055	460	114	1,436,788
2001	50,207	17,815	58,476	41,656	215,779	364,497	168,274	153,504	135,352	55,594	1,021	408	0	1,262,583
2002	50,457	15,651	62,118	43,050	189,473	351,889	155,538	173,087	125,533	58,735	3,344	1,131	0	1,230,006
2003	41,648	14,637	55,789	44,613	177,880	313,729	128,550	185,458	124,368	51,992	1,815	548	710	1,141,737
2004	44,271	9,944	47,771	32,306	171,619	289,676	146,093	195,060	136,063	43,430	1,927	184	0	1,118,344
2005	42,897	12,410	44,881	34,812	182,650	273,663	161,893	225,849	152,717	52,577	2,063	2,294	0	1,188,706
2006	48,136	12,680	44,650	37,115	186,035	303,980	173,738	243,086	153,470	41,051	525	167	0	1,244,633
2007	63,557	12,286	57,350	39,324	172,585	273,692	143,710	242,542	159,478	44,312	1,571	1,855	0	1,212,262
2008	59,079	11,164	51,031	37,005	184,236	279,513	129,988	222,761	173,401	53,351	334	976	0	1,202,839
2009	47,660	10,116	40,471	28,484	169,740	252,949	124,369	187,239	110,861	46,557	2,659	156	0	1,021,261
2010	45,322	14,643	41,556	40,383	163,862	264,369	114,050	206,663	121,504	45,173	834	0	0	1,058,359
2011	46,878	13,593	41,666	32,896	165,466	268,673	124,776	268,148	147,934	49,614	835	582	0	1,161,061
2012	55,136	19,835	41,236	33,877	158,372	242,972	121,538	266,797	144,925	54,242	2,130	928	0	1,141,988
2013	53,286	13,126	45,969	38,397	146,552	268,754	128,694	306,159	177,523	43,657	1,384	2,362	0	1,225,863
2014	25,854	14,420	24,818	31,417	142,214	280,685	113,921	293,970	164,465	50,513	3,757	881	0	1,146,915
2015	30,969	8,219	35,833	27,911	135,485	314,335	121,329	276,219	156,242	44,718	791	969	0	1,153,020
2016	23,907	8,853	29,864	27,235	127,142	224,240	128,267	276,503	162,169	40,161	1,144	535	0	1,050,020
2017	33,873	4,960	28,049	22,326	129,508	230,362	87,222	220,926	170,896	37,228	658	875	0	966,883
2018	25,320	4,776	31,550	28,741	98,822	229,442	94,369	259,443	174,253	41,408	372	1,344	0	989,840
AVERAGES:														
1972-79	107,280	26,833	103,598	56,764	516,840	877,806	316,608	629,166	800,581	232,816	4,777	2,645		3,673,859
1980-89	105,126	31,325	101,616	64,950	468,993	814,241	223,698	252,662	391,752	151,980	4,270	1,742		2,612,356
1990-99	65,278	20,809	87,925	57,262	325,138	519,162	137,322	150,069	171,390	78,439	1,716	841		1,615,350
2000-2009	51,153	13,024	53,173	39,084	189,448	307,092	148,030	207,086	143,193	52,101	1,631	818	82	1,205,916
2010-2018	37,838	11,381	35,616	31,465	140,825	258,204	114,907	263,870	157,768	45,190	1,323	942	0	1,099,328
1972-2018	72,646	20,610	76,095	50,005	324,211	547,898	184,203	287,369	316,764	108,392	2,594	1,297	43	1,991,937

[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.

[2] Nunavut separated from the Northwest Territories on April 1, 1999.

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DUCK HARVESTS IN NORTH AMERICA

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

	UNITED STATES						CANADA					NORTH AMERICAN TOTAL
YR	ATLANTIC FLYWAY	MISSISSIPPI FLYWAY	CENTRAL FLYWAY	PACIFIC FLYWAY	ALASKA	U.S. TOTAL	EASTERN CANADA[2]	MB/SK/AB	BRITISH COLUMBIA	NT, NU and YT	CANADA TOTAL	
1999	444,068	3,137,726	995,528	1,295,088	23,385	5,895,795	214,495	370,479	48,002	220	633,196	6,528,991
2000	523,046	3,272,671	1,035,988	1,218,394	19,085	6,069,184	258,913	367,609	49,272	582	676,376	6,745,560
2001	472,682	2,796,047	1,178,357	1003857	27,711	5,478,655	261,086	294,227	35,575	872	591,760	6,070,415
2002	538,846	2,374,276	1,013,838	887,246	19,541	4,833,747	229,356	277,556	37,371	2,311	546,594	5,380,341
2003 [1]	427,301	2,483,361	962,154	1,033,457	24,824	4,931,097	209,694	265,888	35,384	520	511,486	5,442,583
2004 [1]	422,091	2,199,931	969,467	918,681	21,479	4,531,649	211,030	283,870	28,516	312	523,728	5,055,377
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
2006 [1]	399,651	2,286,643	709,952	1,249,549	22,616	4,668,411	210,750	373,733	28,928	215	613,626	5,282,037
2007 [1]	429,917	2,514,119	806,861	1,107,485	20,039	4,878,421	200,457	314,166	30,167	1,162	545,952	5,424,373
2008 [1]	503,480	2,282,128	677,267	1,069,968	22,126	4,554,969	202,145	309,163	35,924	488	547,720	5,102,689
2009 [1]	419,279	2,075,916	721,474	896,866	21,078	4,134,613	179,940	259,784	32,736	67	472,527	4,607,140
2010 [1]	394,429	2,228,872	603,214	906,964	32,534	4,166,013	175,298	242,964	28,057	0	446,319	4,612,332
2011 [1]	315,897	2,240,248	773,332	1,059,280	20,338	4,409,095	182,467	294,098	32,990	334	509,889	4,918,984
2012 [1]	325,487	1,882,553	763,143	946,940	17,148	3,935,271	146,026	344,805	36,160	1,343	528,334	4,463,605
2013 [1]	328,029	1,836,788	740,084	715,358	17,125	3,637,384	172,845	343,075	29,986	923	546,829	4,184,213
2014 [1]	294,063	1,992,886	813,668	785,215	18,232	3,904,064	184,550	288,128	26,996	440	500,114	4,404,178
2015 [1]	250,114	1,695,598	714,448	766,165	6,990	3,433,315	184,925	324,548	28,664	0	538,137	3,971,452
2016 [1]	313,511	1,826,117	716,017	830,356	33,144	3,719,145	140,818	307,419	23,686	0	471,923	4,191,068
2017 [1]	286,376	1,643,472	610,977	863,583	21,152	3,425,560	145,999	258,958	25,962	658	431,577	3,857,137
2018 [1]	277,119	1,407,353	651,046	1,023,443	14,830	3,373,791	136,633	288,835	25,204	168	450,840	3,824,631
AVERAGE:												
1999-2018	390,485	2,211,304	816,248	982,635	21,683	4,422,355	192,333	305,991	32,658	565	531,547	4,953,902
% CHANGE FROM:												
Prev. Year	-3%	-14%	7%	19%	-30%	-2%	-6%	12%	-3%		4%	-1%
Average	-29%	-36%	-20%	4%	-32%	-24%	-29%	-6%	-23%	-70%	-15%	-23%

[1] Preliminary

[2] NF, PE, NS, NB, PQ, and ON

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GOOSE HARVESTS IN NORTH AMERICA

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

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC [2] FLYWAY	U.S. TOTAL	CANADA TOTAL	U.S. + CANADA
1999	7,620	10,405	63	22,114	3,081	62,014	4,697	13,959	293,635	0	417,588	54,711	302,278	51,613	826,190	192,517	1,018,707
2000	6,990	8,164	0	2,745	3,811	31,119	7,843	2,500	285,993	114	349,279	72,257	160,752	38,439	620,727	227,228	847,955
2001	7,951	4,091	106	5,240	7,465	41,125	4,434	16,489	213,685	0	300,586	77,802	226,716	44,572	649,675	241,069	890,744
2002	9,778	14,751	291	11,347	4,377	20,146	2,834	23,234	144,056	0	230,814	39,295	110,766	46,527	427,402	177,343	604,745
2003 [1]	14,664	16,570	453	4,778	2,327	24,803	1,406	27,920	123,247	325	216,493	36,105	186,862	42,607	482,067	238,545	720,612
2004 [1]	7,988	14,439	113	771	1,017	17,647	2,529	28,802	110,504	0	183,810	31,548	168,358	40,611	424,327	175,279	599,606
2005 [1]	5,554	3,495	54	3,815	1,723	19,163	7,273	21,125	191,235	0	253,437	36,102	219,699	63,779	573,017	172,259	745,276
2006 [1]	8,742	11,446	0	888	2,067	31,261	7,554	25,317	107,290	0	194,565	33,256	140,300	71,479	439,600	239,831	679,431
2007 [1]	9,962	9,630	83	856	1,609	28,120	4,501	10,581	112,830	0	178,172	50,742	140,802	87,738	457,454	169,175	626,629
2008 [1]	3,038	8,991	0	1,199	124	31,321	2,416	25,420	100,084	0	172,593	58,752	145,962	87,274	464,581	278,977	743,558
2009 [1]	3,096	4,001	494	3,040	621	31,075	1,767	17,517	49,905	66	111,582	29,426	65,625	53,640	260,273	155,299	415,572
2010 [1]	2,081	3,296	0	0	276	34,554	7,542	17,535	88,476	0	153,760	18,293	82,934	65,034	320,021	162,548	482,569
2011 [1]	8,026	17,944	0	6,964	1,551	28,448	1,881	11,846	92,236	248	169,144	37,592	122,573	64,115	393,424	213,747	607,171
2012 [1]	1,568	9,607	0	788	789	27,861	3,464	33,348	70,989	330	148,744	41,251	61,448	70,214	321,657	185,689	507,346
2013 [1,3]	3,543	21,236	0	19,021	0	28,536	17,432	16,714	61,891	0	168,373	30,482	133,355	48,365	380,575	224,919	605,494
2014 [1]	917	26,690	0	350	3,639	15,735	6,620	12,081	143,324	0	209,356	21,684	86,602	75,573	393,215	275,466	668,681
2015 [1]	1,188	18,333	151	1,290	888	28,416	501	7,009	45,789	0	103,565	20,983	69,657	65,116	259,321	144,145	403,466
2016 [1]	12,482	12,684	258	11,134	228	45,674	1,492	13,221	97,615	62	194,850	25,560	120,440	79,867	420,717	125,685	546,402
2017 [1]	19,180	12,754	141	2,960	43	36,611	590	32,227	123,659	218	228,383	16,611	134,344	116,102	495,440	152,020	647,460
2018 [1]	1,754	11,548	437	214	0	24,872	2,291	9,466	33,668	0	84,250	6,965	54,342	99,570	245,127	114,884	360,011
AVERAGE:																	
1999-2018	6,806	12,004	132	4,976	1,782	30,425	4,453	18,316	124,506	68	203,467	36,971	136,691	65,612	442,741	193,331	636,072
% CHANGE FROM:																	
Prev. Year	-91%	-9%	210%	-93%	-100%	-32%	288%	-71%	-73%	-100%	-63%	-58%	-60%	-14%	-51%	-24%	-44%
Average	-74%	-4%	231%	-96%	-100%	-18%	-49%	-48%	-73%	-100%	-59%	-81%	-60%	52%	-45%	-41%	-43%

[1] Preliminary
[2] Pacific Flyway total includes Alaska
[3] Includes Conservation Order harvest.

ESTIMATED REGULAR SEASON 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 [2] FLYWAY	U.S. TOTAL	CANADA TOTAL	U.S. + CANADA
1999	1,499	1,643	0	3,797	1,761	360	361	787	47,491	0	57,699	0	9,343	28,318	95,360	22,749	118,109
2000	760	0	191	732	1,755	338	941	0	31,269	0	35,986	0	6,542	6,850	49,378	17,895	67,273
2001	1,817	314	0	629	10,451	2,896	1,162	1,725	40,729	0	59,723	0	18,780	14,834	93,337	20,985	114,322
2002	1,029	3,471	94	331	1,908	528	1,417	664	27,617	0	37,059	0	8,496	16,248	61,803	33,956	95,759
2003 [1]	2,122	2,693	0	735	1,138	109	703	603	22,244	0	30,347	0	17,332	16,904	64,583	30,269	94,852
2004 [1]	1,332	2,042	0	193	2,288	213	1,167	983	23,527	0	31,745	0	4,625	11,070	47,440	22,092	69,532
2005 [1]	444	194	0	544	1,000	913	2,273	315	37,416	0	43,099	0	3,970	8,026	55,095	14,749	69,844
2006 [1]	4,687	1,402	0	381	910	912	3,110	463	12,070	0	23,935	82	10,102	6,627	40,746	26,712	67,458
2007 [1]	1,566	1,313	0	143	724	528	1,637	0	12,895	43	18,849	1,500	8,836	8,782	37,967	18,037	56,004
2008 [1]	1,953	3,549	0	239	247	1,524	966	1,141	22,192	0	31,811	170	12,383	15,613	59,977	48,165	108,142
2009 [1]	310	266	0	2,134	113	2,093	530	824	3,899	0	10,169	145	1,950	9,928	22,192	24,036	46,228
2010 [1]	347	1,163	0	0	221	1,547	794	1,077	18,363	90	23,602	0	4,608	16,875	45,085	34,798	79,883
2011 [1]	819	1,932	0	398	258	2,785	1,410	671	23,854	83	32,210	0	4,821	15,915	52,946	39,952	92,898
2012 [1]	0	3,409	0	263	1,052	6,024	742	2,182	14,503	0	28,175	0	7,163	16,073	51,411	24,722	76,133
2013 [1,3]	1,492	6,017	111	2,875	0	951	3,486	356	15,201	0	30,489	0	6,258	16,022	52,769	34,955	87,724
2014 [1]	0	5,719	0	350	1,747	1,663	2,452	653	42,549	0	55,133	53	16,694	19,576	91,456	41,285	132,741
2015 [1]	0	3,595	151	0	0	3,016	501	701	4,923	0	12,887	0	3,142	14,331	30,360	21,361	51,721
2016 [1]	2,539	1,538	0	1,204	137	3,498	895	853	19,663	0	30,327	0	14,531	8,625	53,483	23,712	77,195
2017 [1]	3,607	1,501	0	455	0	3,481	0	3,480	34,317	0	46,841	254	25,147	28,263	100,505	41,498	142,003
2018 [1]	390	1,316	0	0	464	1,478	509	186	10,893	0	15,236	0	3,812	12,952	32,000	11,930	43,930
AVERAGE:																	
1999-2018	1,336	2,154	27	770	1,309	1,743	1,253	883	23,281	11	32,766	110	9,427	14,592	56,895	27,693	84,588
% CHANGE FROM:																	
Prev. Year	-89%	-12%		-100%		-58%		-95%	-68%		-67%	-100%	-85%	-54%	-68%	-71%	-69%
Average	-71%	-39%	-100%	-100%	-65%	-15%	-59%	-79%	-53%	-100%	-54%	-100%	-60%	-11%	-44%	-57%	-48%

[1] Preliminary
[2] Pacific Flyway total includes Alaska
[3] Includes Conservation Order harvest.

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 [2] FLYWAY	U.S. TOTAL	CANADA TOTAL	U.S. + CANADA
1999	9,119	12,048	63	25,911	4,842	62,374	5,058	14,746	341,126	0	475,287	54,711	311,621	79,931	921,549	215,266	1,136,815
2000	7,750	8,164	191	3,477	5,566	31,457	8,784	2,500	317,262	114	385,265	72,257	167,294	45,289	670,105	245,123	915,228
2001	9,768	4,405	106	5,869	17,916	44,021	5,596	18,214	254,414	0	360,309	77,802	245,496	59,405	743,012	262,054	1,005,066
2002	10,807	18,222	385	11,678	6,285	20,674	4,251	23,898	171,673	0	267,873	39,295	119,262	62,775	489,205	211,299	700,504
2003 [1]	16,786	19,263	453	5,513	3,465	24,912	2,109	28,523	145,491	325	246,840	36,105	204,194	59,511	546,650	268,814	815,464
2004 [1]	9,320	16,481	113	964	3,305	17,860	3,696	29,785	134,031	0	215,555	31,548	172,983	51,680	471,766	197,371	669,137
2005 [1]	5,998	3,689	54	4,359	2,723	20,076	9,546	21,440	228,651	0	296,536	36,102	223,669	71,805	628,112	187,008	815,120
2006 [1]	13,429	12,848	0	1,269	2,977	32,173	10,664	25,780	119,360	0	218,500	33,338	150,402	78,107	480,346	266,543	746,889
2007 [1]	11,528	10,943	83	999	2,333	28,648	6,138	10,581	125,725	43	197,021	52,242	149,638	96,521	495,422	187,212	682,634
2008 [1]	4,991	12,540	0	1,438	371	32,845	3,382	26,561	122,276	0	204,404	58,922	158,345	102,887	524,558	327,142	851,700
2009 [1]	3,406	4,267	494	5,174	734	33,168	2,297	18,341	53,804	66	121,751	29,571	67,575	63,568	282,465	179,335	461,800
2010 [1]	2,428	4,459	0	0	497	36,101	8,336	18,612	106,839	90	177,362	18,293	87,542	81,909	365,106	197,346	562,452
2011 [1]	8,845	19,876	0	7,362	1,809	31,233	3,291	12,517	116,090	331	201,354	37,592	127,394	80,030	446,370	253,699	700,069
2012 [1]	1,568	13,016	0	1,051	1,841	33,885	4,206	35,530	85,492	330	176,919	41,251	68,611	86,287	373,068	210,411	583,479
2013 [1,3]	4,662	16,281	111	3,538	0	29,487	6,168	15,292	66,234	0	141,773	8,922	70,568	64,387	285,650	259,874	693,218
2014 [1,3]	917	32,409	0	700	5,386	17,398	9,072	12,734	185,873	0	264,489	21,737	103,296	95,149	484,671	316,751	801,422
2015 [1,3]	1,188	21,928	302	1,290	888	31,432	1,002	7,710	50,712	0	116,452	20,983	72,799	79,447	289,681	165,506	455,187
2016 [1,3]	15,021	14,222	258	12,338	365	49,172	2,387	14,074	117,278	62	225,177	25,560	134,971	88,492	474,200	149,397	623,597
2017 [1,3]	22,787	14,255	141	3,415	43	40,092	590	35,707	157,976	218	275,224	16,865	159,491	144,365	595,945	193,518	789,463
2018 [1,3]	2,144	12,864	437	214	464	26,350	2,800	9,652	44,561	0	99,486	6,965	58,154	112,522	277,127	126,814	403,941
AVERAGE:																	
1999-2017	8,123	13,609	160	4,828	3,091	32,168	4,969	19,110	147,243	79	233,379	36,003	142,665	80,203	492,250	221,024	720,659
% CHANGE FROM:																	
Prev. Year	-91%	-10%	210%	-94%	979%	-34%	375%	-73%	-72%	-100%	-64%	-59%	-64%	-22%	-53%	-34%	-49%
Average	-74%	-5%	174%	-96%	-85%	-18%	-44%	-49%	-70%	-100%	-57%	-81%	-59%	40%	-44%	-43%	-44%

[1] Preliminary
[2] Pacific Flyway total includes Alaska
[3] Light Goose total does **NOT** include Conservation Order harvest

11/6/2019

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

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY	ATL FLYWAY	MISS FLYWAY	PAC [2] FLYWAY	U.S. TOTAL	CANADA TOTAL	U.S. + CANADA
1999	0	5,476	316	223	0	899	2,168	983	103,670	0	113,735	0	108,649	32,123	254,507	62,349	316,856
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	227	4,721	212	629	0	1,854	422	1,150	82,015	0	91,230	0	110,802	29,348	231,380	93,194	324,574
2002	86	8,966	187	663	112	264	1,090	830	73,147	0	85,345	0	107,151	28,003	220,499	51,615	272,114
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	65,268	282,049
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	92,956	45,451	252,426	75,564	327,990
2006 [1]	127	2,336	84	888	25	1,172	2,000	309	76,444	0	83,385	0	142,493	56,610	282,488	55,183	337,671
2007 [1]	142	13,788	249	1,142	0	528	7,366	1,076	87,040	0	111,331	0	176,444	64,586	352,361	69,958	422,319
2008 [1]	868	16,325	0	479	0	1,524	1,691	326	40,033	0	61,246	0	138,097	119,988	319,331	93,862	413,193
2009 [1]	0	12,267	247	434	56	1,932	2,120	1,237	52,244	0	70,537	2,510	71,451	60,746	205,244	54,213	259,457
2010 [1]	173	4,847	99	0	0	5,157	1,588	615	75,121	0	87,600	0	105,249	75,909	268,758	56,199	324,957
2011 [1]	164	19,877	0	1,791	0	2,188	1,567	671	74,744	0	101,002	788	70,836	62,183	234,809	81,042	315,851
2012 [1]	448	7,127	0	526	0	3,765	2,474	4,363	63,356	0	82,059	0	83,245	45,196	210,500	59,470	269,970
2013 [1]	559	15,927	222	664	0	1,585	3,218	1,422	34,745	0	58,342	124	122,469	75,432	256,367	75,113	331,480
2014 [1]	0	19,064	166	0	0	1,407	2,452	653	120,930	0	144,672	94	110,410	84,075	339,251	87,594	426,845
2015 [1]	0	15,817	1,057	322	0	3,248	1,504	701	28,064	0	50,713	0	108,720	68,220	227,653	71,457	299,110
2016 [1]	635	16,913	0	903	0	1,440	1,790	2,772	50,563	62	75,078	0	196,416	42,795	314,289	66,525	380,814
2017 [1]	492	4,752	141	911	0	2,920	3,541	4,085	43,192	0	60,034	726	181,084	70,372	312,216	76,884	389,100
2018 [1]	0	2,339	0	855	0	3,078	509	3,341	33,668	0	43,790	37	110,739	67,435	222,001	79,364	301,365
AVERAGE:																	
1999-2018	260	9,912	191	836	13	1,899	2,383	1,540	70,502	3	87,538	218	116,900	56,268	260,925	72,310	333,235
% CHANGE FROM:																	
Prev. Year	-100%	-51%	-100%	-6%		5%	-86%	-18%	-22%		-27%	-95%	-39%	-4%	-29%	3%	-23%
Average	-100%	-76%	-100%	2%	-100%	62%	-79%	117%	-52%	-100%	-50%	-83%	-5%	20%	-15%	10%	-10%

[1] Preliminary
[2] Pacific Flyway total includes Alaska

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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 [2] 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	612,056	2,538,382
2001	55,052	72,707	19,221	83,833	1,792	64,721	13,458	126,736	123,859	13,486	574,866	482,337	576,572	267,207	1,900,982	637,016	2,537,998
2002	62,101	80,982	30,314	56,322	1,010	75,862	26,606	91,574	96,286	15,471	536,530	476,787	569,464	243,793	1,826,575	645,664	2,472,239
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	671,654	2,956,430
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	631,320	298,764	1,828,654	626,801	2,455,455
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	586,257	314,006	1,976,714	712,042	2,688,756
2006 [1]	64,235	59,566	25,399	56,688	910	82,455	41,736	97,985	62,362	21,163	512,500	437,000	747,050	305,365	2,001,915	678,011	2,679,926
2007 [1]	62,192	59,968	23,876	61,794	4,023	74,622	47,496	60,042	47,066	11,834	452,913	601,243	675,477	287,861	2,017,493	703,857	2,721,350
2008 [1]	85,716	87,067	16,154	83,358	2,350	64,167	31,887	68,441	43,950	22,529	505,618	662,042	739,354	316,303	2,223,317	735,005	2,958,322
2009 [1]	68,099	92,267	25,925	76,421	2,032	67,625	26,848	62,445	54,583	17,052	493,297	612,263	731,196	297,884	2,134,639	711,213	2,845,852
2010 [1]	49,062	66,494	18,162	103,477	1,489	87,419	20,442	53,527	70,113	20,434	490,619	598,001	677,156	274,598	2,040,374	691,162	2,731,536
2011 [1]	31,450	51,900	21,785	68,644	6,719	89,720	26,329	53,423	45,323	14,571	409,864	372,191	621,518	279,651	1,683,224	730,316	2,413,540
2012 [1]	83,356	72,204	46,313	97,777	3,420	120,859	40,580	76,360	56,486	28,198	625,552	502,704	582,328	304,148	2,014,732	740,882	2,755,614
2013 [1]	91,554	108,657	28,436	111,033	2,405	122,071	75,625	78,947	36,917	26,665	682,310	506,580	668,795	253,604	2,111,290	726,082	2,837,372
2014 [1]	101,543	166,812	46,516	113,903	2,911	113,531	49,281	51,592	33,592	15,791	695,472	452,666	543,541	286,154	1,977,833	757,547	2,735,380
2015 [1]	67,723	71,175	40,469	89,315	1,396	101,485	34,599	44,392	13,786	15,086	479,426	367,251	471,676	247,582	1,565,935	776,462	2,342,397
2016 [1]	93,085	96,863	24,509	115,248	1,734	106,368	41,181	54,376	28,793	24,401	586,558	651,204	846,784	250,559	2,335,105	764,088	3,099,193
2017 [1]	95,410	95,786	36,339	138,904	1,089	126,903	54,889	63,545	30,175	34,851	677,891	477,300	1,009,409	267,034	2,431,634	834,299	3,265,933
2018 [1]	68,618	50,579	37,632	99,129	7,892	87,913	35,890	40,835	70,306	19,135	517,929	330,254	675,034	297,374	1,820,591	721,308	2,541,899
AVERAGE:																	
1999-2018	71,813	85,023	28,863	89,903	2,540	90,391	37,728	73,277	60,049	19,854	559,442	461,307	675,130	288,321	1,984,200	702,035	2,686,235
% CHANGE FROM:																	
Prev. Year	-28%	-47%	4%	-29%	625%	-31%	-35%	-36%	133%	-45%	-24%	-31%	-33%	11%	-25%	-14%	-22%
Average	-4%	-41%	30%	10%	211%	-3%	-5%	-44%	17%	-4%	-7%	-28%	0%	3%	-8%	3%	-5%

[1] Preliminary
[2] Pacific Flyway total includes Alaska

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 [2] 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	105,649	49,566	123,303	125,837	25,499	765,879	416,900	1,036,800	358,547	2,578,126	612,056	3,190,182
2001	55,052	72,707	19,221	83,833	1,792	116,309	16,048	163,926	123,859	13,486	666,234	692,137	852,872	267,207	2,478,450	637,016	3,115,466
2002	62,101	80,982	30,314	56,322	1,010	109,262	27,906	131,274	96,286	15,471	610,930	709,987	870,364	243,793	2,435,075	645,664	3,080,739
2003 [1]	92,037	123,866	37,264	104,141	2,723	124,452	36,698	154,867	62,525	23,083	761,655	657,910	1,103,880	332,130	2,855,576	671,654	3,527,230
2004 [1]	60,401	80,218	27,277	62,672	1,271	118,427	41,630	96,663	43,489	20,421	552,470	643,800	952,120	305,464	2,453,854	626,801	3,080,655
2005 [1]	67,991	99,178	17,887	100,078	1,444	133,043	29,545	78,822	83,145	18,217	629,352	774,300	928,457	323,406	2,655,514	712,042	3,367,556
2006 [1]	64,235	59,566	25,399	56,988	910	120,355	42,436	129,985	62,362	21,163	583,400	662,500	1,078,650	321,165	2,645,715	678,011	3,323,726
2007 [1]	62,192	59,968	23,876	63,794	4,023	108,922	48,696	87,342	47,066	11,834	517,713	860,743	996,677	301,061	2,676,193	703,857	3,380,050
2008 [1,3]	85,716	87,067	16,154	85,274	2,350	99,091	35,027	94,513	43,950	22,529	571,671	919,976	1,021,696	331,497	2,844,840	735,005	3,579,845
2009 [1,3]	68,099	92,267	25,925	79,026	2,032	101,599	28,084	98,716	54,583	17,052	567,383	854,268	975,895	308,125	2,705,671	711,213	3,416,884
2010 [1,4]	49,062	66,494	18,162	107,108	1,489	88,966	21,831	77,830	70,113	20,434	521,489	796,229	938,413	279,138	2,535,269	691,162	3,226,431
2011 [1,4]	31,450	51,900	21,785	68,644	6,719	114,189	27,113	93,210	45,323	14,571	474,904	530,630	883,440	296,080	2,185,054	730,316	2,915,370
2012 [1,4]	83,356	72,204	46,313	97,777	3,420	147,215	40,827	100,670	56,486	28,198	676,466	695,699	825,546	312,343	2,510,054	740,882	3,250,936
2013 [1,4]	91,554	108,657	28,436	111,033	2,405	168,521	75,625	135,490	36,917	26,665	785,303	675,031	933,368	262,363	2,656,065	726,082	3,382,147
2014 [1]	101,543	166,812	46,516	113,903	2,911	167,177	49,281	77,062	33,592	15,791	774,588	630,777	781,274	292,695	2,479,334	757,547	3,236,881
2015 [1]	67,723	71,175	40,469	89,315	1,396	127,698	39,613	64,719	13,786	15,086	530,980	488,582	731,564	258,053	2,009,179	776,462	2,785,641
2016 [1]	93,085	96,863	24,509	115,248	1,734	129,000	45,060	70,156	28,793	24,401	628,849	714,089	846,784	265,098	2,454,820	764,088	3,218,908
2017 [1]	95,410	95,786	36,339	138,904	1,089	176,541	56,660	85,181	30,767	34,851	751,528	627,769	1,009,409	277,223	2,665,929	834,299	3,500,228
2018 [1]	68,618	50,579	37,632	99,129	7,892	109,091	35,890	61,810	71,297	19,135	561,071	418,386	675,034	311,228	1,965,719	721,308	2,687,027
AVERAGE:																	
1999-2017	71,813	85,128	28,863	90,570	2,540	123,812	39,165	103,581	60,129	19,854	625,455	659,631	914,072	299,264 #	2,498,421	702,035	3,200,457
% CHANGE FROM:																	
Prev. Year	-28%	-47%	4%	-29%	625%	-38%	-37%	-27%	132%	-45%	-25%	-33%	-33%	12%	-26%	-14%	-23%
Average	-4%	-41%	30%	9%	211%	-12%	-8%	-40%	19%	-4%	-10%	-37%	-26%	4%	-21%	3%	-16%

[1] Preliminary
[2] Pacific Flyway total includes Alaska
[3] ND total harvest includes harvest that occurred during the August Management Take season.
[4] ND and SD total harvest includes harvest that occurred during the August Management Take season.

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 [2] FLYWAY	U.S. TOTAL	CANADA TOTAL	U.S. + CANADA
1999	65,204	85,700	19,407	102,300	7,043	174,000	42,999	167,501	553,099	9,436	1,226,689	495,912	1,275,870	455,307	3,453,778	842,857	4,296,635
2000	94,975	119,000	35,528	125,701	7,803	139,700	61,801	131,801	639,100	25,613	1,381,022	513,974	1,385,591	433,538	3,714,125	963,917	4,678,042
2001	65,350	87,499	19,539	100,600	19,708	162,184	24,600	190,000	489,300	13,486	1,172,266	789,170	1,292,293	358,216	3,611,945	992,264	4,604,209
2002	76,083	115,400	30,874	70,900	8,866	130,200	36,299	156,500	393,354	15,471	1,033,947	782,786	1,186,643	328,281	3,331,657	908,578	4,240,235
2003 [1]	114,998	159,700	37,717	114,677	6,585	149,799	41,901	185,801	299,399	23,408	1,133,985	737,340	1,528,350	422,194	3,821,869	1,005,736	4,827,605
2004 [1]	72,505	103,700	27,390	72,700	4,661	138,201	49,801	129,398	248,100	20,619	867,075	682,330	1,235,600	403,124	3,188,129	888,785	4,076,914
2005 [1]	80,322	108,300	18,210	113,700	5,167	153,302	42,499	103,101	457,300	18,881	1,100,782	841,105	1,275,300	443,362	3,660,549	974,614	4,635,163
2006 [1]	82,859	90,400	25,483	69,299	3,912	153,700	55,100	158,699	298,400	21,163	959,015	714,287	1,444,901	460,881	3,579,084	999,737	4,578,821
2007 [1]	74,431	84,699	24,208	71,501	6,517	138,100	62,200	98,999	361,056	11,877	933,588	935,285	1,330,901	464,967	3,664,741	961,027	4,625,768
2008 [1]	93,528	120,900	16,154	92,700	2,721	133,460	40,100	121,400	272,400	22,529	915,892	1,006,048	1,342,900	557,075	3,821,915	1,156,009	4,977,924
2009 [1]	77,076	115,201	26,789	82,500	2,878	136,699	32,501	118,500	196,499	17,118	805,761	922,200	1,163,401	435,639	3,327,001	944,761	4,271,762
2010 [1]	51,663	75,800	18,261	107,108	1,986	130,224	31,755	97,057	252,073	20,524	786,451	832,595	1,131,204	439,827	3,190,077	944,707	4,134,784
2011 [1]	40,459	91,653	21,785	77,797	8,528	147,610	31,971	106,398	236,157	14,902	777,260	580,417	1,081,670	439,296	2,878,643	1,065,057	3,943,700
2012 [1]	87,389	92,967	46,313	113,810	5,261	184,865	49,981	140,875	208,387	28,528	958,376	764,500	1,020,719	447,212	3,190,807	1,010,763	4,201,570
2013 [1]	97,148	151,837	28,769	133,593	2,405	199,593	99,761	153,982	148,754	26,665	1,042,507	705,637	1,195,450	404,626	3,348,220	1,061,069	4,409,289
2014 [1]	102,460	218,285	46,682	114,603	8,297	190,101	60,805	90,449	340,395	15,791 0	1,187,868	660,316	995,224	477,697 0	3,321,105 0	1,161,892 0	4,482,997
2015 [1]	68,911	108,920	41,828	90,927	2,284	162,378	42,119	73,130	92,562	15,086 0	698,145	515,631	913,083	410,647 0	2,537,506 0	1,013,425 0	3,550,931
2016 [1]	108,741	127,998	24,767	128,489	2,099	179,612	49,237	87,002	196,634	24,525 0	929,104	739,649	1,178,171	396,385 0	3,243,309 0	980,010 0	4,223,319
2017 [1]	118,689	114,793	36,621	143,230	1,132	219,553	60,791	124,973	231,935	35,069 0	1,086,786	645,360	1,349,984	491,960 0	3,543,290 0	1,104,701 0	4,647,991
2018 [1]	70,762	65,782	38,069	100,198	8,356	138,519	39,199	74,803	149,526	19,135 0	704,347	425,388	843,927	491,185 0	2,464,847 0	927,486 0	3,392,333
AVERAGES:																	
1999-2018	82,178	111,927	29,220	101,317	5,810	158,090	47,771	125,518	303,222	19,991	985,043	714,497	1,208,559	438,071	3,344,630	995,370	4,340,000
% CHANGE FROM:																	
Prev. Year	-40%	-43%	4%	-30%	638%	-37%	-36%	-40%	-36%	-45%	-35%	-34%	-37%	0%	-30%	-16%	-27%
Average	-14%	-41%	30%	-1%	44%	-12%	-18%	-40%	-51%	-4%	-28%	-40%	-30%	12%	-26%	-7%	-22%

[1] Preliminary

[2] Pacific Flyway total includes Alaska

K.L. Kruse *File S:\CF_D\projects\Monitoring\harvest data\DATABOOK\HIP\gooseharvhip.xls* 11/06/19

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

YR	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	CEN FLYWAY
1999	15,864	11,500	1,391	9,158	1,233	47,095	11,563	15,924	64,287	1,391	179,405
2000	19,603	19,153	1,910	14,272	484	31,232	12,862	6,832	99,144	2,732	208,224
2001	14,918	15,108	1,381	14,461	597	36,839	6,335	18,022	102,658	1,583	211,901
2002	14,839	15,329	2,239	5,964	224	18,738	9,266	16,928	76,133	1,521	161,180
2003 [1]	29,714	29,620	2,523	11,027	1,683	22,845	16,872	17,475	37,876	2,709	172,345
2004 [1]	19,972	11,668	1,754	9,642	170	21,262	19,842	7,587	27,804	1,388	121,089
2005 [1]	27,552	19,020	754	26,336		18,433	12,955	5,991	78,988	2,215	192,244
2006 [1]	19,131	12,380	1,003	7,615	74	15,761	17,774	10,806	39,563	1,287	125,394
2007 [1]	18,927	24,512	663	9,419	402	12,278	23,325	5,201	38,684	907	134,319
2008 [1]	12,586	32,650	554	10,300	186	12,889	8,938	5,214	25,238	2,453	111,008
2009 [1]	23,524	16,800	123	8,684	508	15,457	10,951	9,686	47,565	790	134,088
2010 [1]	22,364	12,213	197	14,523	110	17,535	4,962	4,307	58,428	2,509	137,149
2011 [1]	15,725	9,938	456	8,954		17,506	15,045	5,365	34,191	1,407	108,588
2012 [1]	31,370	25,411	348	12,616	526	20,331	20,537	8,415	45,036	6,843	171,435
2013 [1]	39,531	39,994	111	10,838	134	18,548	49,880	3,201	29,316	1,476	193,029
2014 [1]	40,113	65,295	0	21,729	582	25,420	31,628	2,449	20,155	902	208,273
2015 [1]	29,109	18,692	1,963	9,028	0	11,830	8,524	1,636	6,893	1,683	89,358
2016 [1]	27,079	15,760	903	11,735	183	15,842	21,486	2,132	9,129	2,409	106,658
2017 [1]	34,262	22,258	1,980	22,771	171	18,642	18,296	8,927	25,442	4,909	157,658
2018 [1]	32,554	15,641	2,297	14,528	2,321	10,343	15,272	1,299	57,433	1,990	153,678

[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	32,103	52,570	15,109	54,500	968	57,700	22,765	128,967	2,896	7,440	375,018
2000	63,823	71,902	31,708	94,961	1,452	69,342	34,508	113,138	9,152	21,401	511,387
2001	29,836	52,248	15,717	65,180	1,194	69,855	8,657	141,110	9,485	11,147	404,430
2002	32,251	56,109	22,386	41,165	673	83,486	11,337	107,376	4,478	11,835	371,097
2003 [1]	53,447	88,653	29,953	82,333	792	92,034	11,248	129,960	19,840	16,906	525,166
2004 [1]	36,918	64,904	19,807	44,546	1,102	83,877	11,088	83,878	5,703	18,637	370,460
2005 [1]	38,884	75,111	8,351	70,835	1,444	92,345	11,705	68,260	3,118	16,003	386,056
2006 [1]	22,425	41,813	10,611	43,915	369	85,707	15,552	106,366	4,694	13,637	345,090
2007 [1]	36,858	30,422	6,715	50,091	1,689	83,965	22,507	76,399	3,224	9,500	321,369
2008 [1]	27,993	36,672	4,431	63,477	557	68,047	20,775	74,958	6,092	14,460	317,462
2009 [1]	43,025	73,332	2,839	64,697	1,524	69,234	15,014	78,929	5,458	12,310	366,361
2010 [1]	20,457	47,884	2,073	78,969	1,324	33,523	12,503	68,755	8,347	16,222	290,057
2011 [1]	13,268	34,784	2,053	55,910	4,652	71,219	11,754	79,798	10,337	11,342	295,117
2012 [1]	49,744	42,765	1,219	75,699	2,893	104,293	17,320	87,580	10,687	20,942	413,142
2013 [1]	43,446	67,601	1,000	90,463	2,204	139,827	20,918	130,155	2,172	19,288	517,073
2014 [1]	50,428	85,789	332	88,669	2,183	126,942	12,749	66,287	13,437	14,167	460,983
2015 [1]	27,030	44,215	38,053	76,417	1,015	105,429	22,063	56,074	6,893	13,029	390,218
2016 [1]	39,350	66,113	21,671	94,485	1,369	100,608	19,098	61,413	6,320	19,953	430,380
2017 [1]	32,623	54,270	30,400	108,619	897	141,502	26,559	70,656	3,550	27,161	496,237
2018 [1]	34,699	34,060	35,225	83,106	5,571	98,009	18,072	59,953	10,893	16,964	396,552

[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	1,445	1,180	5,212	363	22,812
2000	3,495	7,850	1,146	4,208	60	5,074	2,196	3,333	17,541	1,366	46,269
2001	10,299	5,351	2,124	4,192		9,615	1,056	4,793	11,716	757	49,902
2002	15,011	9,544	5,690	9,194	112	7,038	7,304	6,970	15,674	2,116	78,653
2003 [1]	8,876	5,593	4,787	10,782	248	9,573	8,577	7,432	4,810	3,468	64,144
2004 [1]	3,510	3,646	5,716	8,485		13,289	10,699	5,198	9,981	397	60,921
2005 [1]	1,555	5,046	8,782	2,906		22,265	4,886	4,572	1,039		51,052
2006 [1]	22,679	5,373	13,785	5,458	468	18,887	9,109	12,813	18,105	6,240	112,916
2007 [1]	6,404	5,034	16,497	4,281	1,931	12,674	2,864	5,739	5,158	1,425	62,007
2008 [1]	45,136	17,745	11,169	11,498	1,608	18,155	5,314	14,340	12,619	5,616	143,201
2009 [1]	1,548	2,133	22,962	5,645		16,746	2,120	10,098	1,560	3,950	66,760
2010 [1]	6,241	6,397	15,892	13,615	55	37,907	4,366	4,768	3,339	1,703	94,284
2011 [1]	2,457	7,178	19,276	3,780	2,067	25,464	313	8,047	795	1,821	71,199
2012 [1]	2,241	4,029	44,746	9,462		22,591	2,969	4,675	763	412	91,888
2013 [1]	8,577	1,062	27,326	9,732	67	10,146	4,827	2,134	5,429	5,902	75,202
2014 [1]	11,002	15,728	46,183	3,505	146	14,815	4,904	8,327	0	722	105,331
2015 [1]	11,584	8,268	453	3,869	381	10,438	9,026	7,009	0	374	51,402
2016 [1]	26,656	14,991	1,935	9,027	183	12,550	4,476	6,610	13,343	2,039	91,810
2017 [1]	28,525	19,257	3,959	7,515	21	16,396	11,804	5,598	1,775	2,782	97,632
2018 [1]	1,365	877	109	1,495	0	739	2,545	557	2,971	181	10,839

[1] Preliminary

GOOSE AGE RATIOS
IN THE U.S. HARVEST

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	0.58	0.48	0.59	0.56	0.53
2002	0.45	0.40	0.61	0.51	0.50
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
2006 [1]	0.47	0.53	0.54	0.45	0.51
2007 [1]	0.40	0.40	0.50	0.44	0.44
2008 [1]	0.51	0.59	0.51	0.38	0.52
2009 [1]	0.57	0.37	0.47	0.50	0.46
2010 [1]	0.60	0.63	0.55	0.45	0.57
2011 [1]	0.64	0.34	0.52	0.50	0.49
2012 [1]	0.55	0.46	0.40	0.45	0.46
2013 [1]	0.36	0.47	0.39	0.60	0.42
2014 [1]	0.47	0.36	0.37	0.59	0.42
2015 [1]	0.38	0.41	0.47	0.47	0.43
2016 [1]	0.44	0.44	0.42	0.71	0.46
2017 [1]	0.49	0.50	0.41	0.51	0.46
2018 [1]	0.28	0.24	0.32	0.40	0.30

[1]Preliminary

6-Nov-19

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	0.53	1.48	0.72	0.31	0.66
2002	0.32	0.27	0.27	0.42	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
2006 [1]	0.50	0.54	0.70	0.70	0.60
2007 [1]	0.24	0.56	0.34	0.64	0.45
2008 [1]	0.56	1.48	0.27	0.18	0.62
2009 [1]	0.16	0.26	0.29	0.67	0.35
2010 [1]	0.46	0.45	0.40	0.59	0.48
2011 [1]	0.41	0.77	0.63	0.85	0.67
2012 [1]	0.39	0.42	0.27	0.73	0.45
2013 [1]	0.28	0.53	0.85	0.36	0.51
2014 [1]	0.50	1.03	0.43	0.50	0.62
2015 [1]	0.29	0.79	0.27	0.78	0.51
2016 [1]	0.57	0.55	0.38	0.76	0.58
2017 [1]	0.61	1.42	0.90	0.81	0.77
2018 [1]	0.07	0.05	0.20	0.43	0.26

[1]Preliminary

6-Nov-19

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	0.46		0.66	0.68	0.58
2002	0.50		0.49	0.32	0.47
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
2006 [1]	1.16		0.91	0.86	0.97
2007 [1]	0.70		0.31	0.68	0.48
2008 [1]	0.50		0.35	0.72	0.50
2009 [1]	0.61		0.49	1.42	0.72
2010 [1]	0.70		0.46	0.94	0.66
2011 [1]	0.87		1.06	0.71	0.87
2012 [1]	0.70		0.35	0.77	0.56
2013 [1]	0.76		0.48	0.43	0.53
2014 [1]	0.67		0.52	0.52	0.58
2015 [1]	0.69		0.78	1.05	0.83
2016 [1]	0.39		0.71	0.75	0.62
2017 [1]	0.56		0.64	0.29	0.53
2018 [1]	0.29		0.24	0.45	0.31

[1]Preliminary

6-Nov-19

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

ROSS'S 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	2.64			1.04	2.23
2000	1.08			0.50	0.98
2001	1.96			0.72	1.92
2002	0.98			0.69	0.95
2003 [1]	2.22			1.25	1.93
2004 [1]	0.34			0.24	0.35
2005 [1]	1.55			0.91	1.60
2006 [1]	1.37			0.90	1.79
2007 [1]	0.91			0.22	0.64
2008 [1]	1.57		2.07	0.39	1.26
2009 [1]	0.70			0.10	0.54
2010 [1]	0.93			0.19	0.60
2011 [1]	1.22			0.31	0.74
2012 [1]	0.89			0.15	0.56
2013 [1]	1.06			0.36	0.79
2014 [1]	0.85			0.32	0.86
2015 [1]	0.61			0.69	0.68
2016 [1]	1.07		0.88	0.77	0.96
2017 [1]	0.79		1.48	0.86	0.96
2018 [1]	0.11			0.35	0.18

[1]Preliminary

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

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WEBLESS GAME BIRD HARVESTS, HUNTER ACTIVITY AND SUCCESS IN THE UNITED STATES

ESTIMATED CMU MOURNING DOVE HARVEST (Harvest Information Program)

YR	AR	CO	IA[2]	KS	MN	MO	MT	NE	NM	ND	OK	SD	TX	WY	CMU	EMU	WMU	U.S.
2003 [1]	595,600	262,000		853,600	-	732,900	19,100	354,900	154,400	77,800	515,600	199,900	3,909,000	39,600	7,714,400	8,078,500	2,420,100	18,213,200
2004 [1]	740,600	299,900		689,400	107,000	775,900	20,900	365,900	302,800	57,500	555,300	184,100	5,664,600	43,700	9,807,600	7,712,000	2,470,600	19,990,200
2005 [1]	861,621	263,359		680,370	48,822	641,795	17,792	371,075	250,090	55,473	828,528	127,700	5,710,707	34,074	9,891,405	9,793,000	2,465,486	22,149,889
2006 [1]	621,500	270,300		711,800	50,000	709,500	14,800	249,700	226,900	56,400	704,400	103,300	5,138,700	29,500	8,886,800	8,155,400	2,202,900	19,272,400
2007 [1]	791,700	315,000		725,100	67,400	603,300	20,900	319,600	198,700	48,700	480,000	104,000	5,463,300	42,600	9,180,300	8,908,400	2,461,500	20,550,000
2008 [1]	422,041	288,438		443,742	83,454	467,833	18,381	238,647	138,069	26,386	361,204	152,099	4,849,583	30,080	7,519,957	7,671,758	2,210,705	17,402,421
2009 [1]	353,534	242,354		572,613	61,491	294,712	12,709	277,563	170,246	39,970	378,417	105,368	4,945,108	20,560	7,474,642	7,639,194	2,241,012	17,354,848
2010 [1]	446,350	171,979		511,197	98,943	426,005	17,421	276,411	128,022	54,166	268,700	64,330	4,699,316	32,099	7,194,939	7,473,535	2,561,966	17,230,440
2011 [1]	519,314	178,713	56,778	534,804	57,348	359,582	14,444	265,498	76,850	41,762	379,365	87,210	5,061,083	24,965	7,657,716	6,666,900	2,256,289	16,580,904
2012 [1]	494,190	204,327	-	244,779	65,442	296,600	2,622	223,413	160,144	78,875	349,693	65,495	4,150,771	25,253	6,361,603	6,279,871	1,849,379	14,490,853
2013 [1]	155,860	176,894	214,313	504,393	53,519	587,568	11,980	239,845	123,027	88,156	421,170	118,304	3,506,735	34,204	6,235,968	6,350,562	1,943,271	14,529,801
2014 [1]	347,942	173,116	129,961	485,304	54,805	374,154	8,518	172,897	115,164	47,639	417,925	106,758	5,199,449	21,058	7,654,691	4,889,812	1,264,964	13,809,468
2015 [1]	252,414	204,471	111,462	558,176	96,710	307,390	18,039	160,621	111,881	73,527	293,998	84,506	4,892,144	14,914	7,180,254	4,644,890	1,332,165	13,157,309
2016 [1]	258,221	141,248	128,109	427,608	96,718	321,634	16,040	131,979	47,877	76,924	400,365	112,415	5,155,315	20,114	7,334,567	4,606,029	1,561,436	13,502,032
2017 [1]	287,122	117,645	134,876	290,649	39,133	367,227	8,890	177,912	73,893	59,443	315,569	111,605	3,469,459	9,392	5,462,816	4,783,344	1,314,973	11,561,133
2018 [1]	170,574	121,489	107,842	337,648	55,273	309,406	9,831	189,087	126,909	65,247	181,323	69,398	2,990,357	14,764	4,749,149	4,167,631	1,457,697	10,374,478

[1] Preliminary
[2] No estimates available for 2012.

ESTIMATES OF TOTAL CMU MOURNING DOVE HUNTER DAYS AFIELD BY STATE OF HARVEST (Harvest Information Program)

YR	AR	CO	IA[2]	KS	MN	MO	MT	NE	NM	ND	OK	SD	TX	WY	CMU	EMU	WMU	U.S.
2003 [1]	89,000	51,200		135,100	-	124,800	4,900	62,900	32,900	17,300	73,800	40,400	802,800	7,400	1,442,500	1,456,900	459,700	3,359,100
2004 [1]	114,000	54,800		119,300	61,100	128,800	11,300	71,400	42,000	13,000	94,000	36,700	1,089,200	8,700	1,844,300	1,373,400	476,200	3,693,800
2005 [1]	147,258	48,729		109,500	14,721	113,362	4,822	64,319	41,974	11,808	111,498	25,206	1,029,986	6,626	1,729,809	1,669,760	446,158	3,845,727
2006 [1]	77,500	45,700		116,400	24,200	129,800	3,900	43,000	33,900	10,800	108,300	24,700	986,200	6,500	1,610,900	1,336,000	458,800	3,405,800
2007 [1]	115,900	57,800		119,100	27,600	124,400	4,000	55,300	40,100	9,900	73,100	18,200	1,149,600	8,800	1,803,800	1,481,697	487,200	3,772,697
2008 [1]	76,601	60,422		78,530	34,873	93,370	3,670	48,787	26,224	9,184	57,753	27,468	974,121	5,931	1,496,935	1,269,462	426,220	3,192,617
2009 [1]	53,815	45,407		96,958	24,071	58,681	6,410	51,760	35,652	10,826	55,519	21,671	846,164	5,782	1,312,715	1,245,684	429,042	2,987,441
2010 [1]	63,302	38,375		93,894	55,334	75,178	4,662	49,692	20,992	11,830	51,337	14,150	876,512	7,067	1,362,326	1,167,111	494,752	3,024,189
2011 [1]	63,784	44,495	19,043	95,802	25,076	74,580	5,863	46,905	24,609	10,370	54,206	16,341	958,563	5,135	1,444,771	1,095,217	465,663	3,005,651
2012 [1]	57,614	43,751	-	49,077	21,616	51,415	495	39,031	37,959	17,363	49,166	14,687	720,168	6,332	1,108,672	1,015,640	413,674	2,537,986
2013 [1]	30,134	36,949	49,372	93,040	16,959	104,521	2,867	39,297	23,710	16,445	69,365	17,508	677,911	7,232	1,185,311	987,860	399,763	2,572,934
2014 [1]	47,940	27,812	27,133	70,747	20,160	62,196	2,860	26,708	24,084	11,883	56,873	17,483	934,258	3,450	1,333,587	791,292	261,799	2,386,678
2015 [1]	37,556	38,937	24,598	86,361	28,193	54,320	5,076	25,540	23,075	12,801	45,304	16,009	833,971	3,289	1,235,030	780,445	226,458	2,241,933
2016 [1]	36,233	29,719	25,271	77,169	18,028	65,140	3,462	24,534	12,823	15,825	58,509	17,146	956,788	3,733	1,344,379	789,569	295,873	2,429,820
2017 [1]	35,537	24,093	28,331	58,299	16,227	65,740	2,181	30,952	16,519	11,435	45,608	18,445	703,284	2,180	1,058,833	758,454	235,078	2,052,364
2018 [1]	24,515	20,247	23,516	44,273	16,889	48,276	3,501	33,725	28,222	11,815	29,216	11,529	553,168	3,192	852,084	634,838	259,770	1,746,691

[1] Preliminary
[2] No estimates available for 2012.

ESTIMATES OF ACTIVE NUMBERS OF CMU MOURNING DOVE HUNTERS BY STATE OF HARVEST IN THE CENTRAL MANAGEMENT UNIT (Harvest Information Program)

YR	AR	CO	IA[2]	KS	MN	MO	MT	NE	NM	ND	OK	SD	TX	WY
2003 [1]	32,800	19,100		38,100	-	40,600	1,600	19,000	7,100	5,700	20,100	10,900	217,700	3,000
2004 [1]	37,900	19,400		35,800	13,700	41,600	2,600	19,100	9,900	4,500	27,100	10,000	287,700	3,200
2005 [1]	43,429	18,392		32,386	5,963	40,234	2,043	17,847	9,349	3,065	34,464	7,132	257,180	2,497
2006 [1]	31,300	19,800		35,400	8,000	44,700	1,800	15,000	7,100	4,000	36,100	8,100	258,900	2,300
2007 [1]	37,000	21,800		36,300	7,700	42,600	1,700	17,000	8,600	3,200	24,600	6,000	275,200	4,000
2008 [1]	23,320	23,201		26,756	11,326	34,271	2,078	13,572	6,286	2,741	19,327	7,262	271,268	2,519
2009 [1]	22,420	20,305		29,379	6,768	21,483	2,506	15,987	7,772	2,795	18,564	6,511	236,576	2,336
2010 [1]	23,907	15,876		28,207	9,970	29,282	1,633	15,758	5,851	3,834	19,500	4,976	244,595	2,671
2011 [1]	25,331	15,306	5,843	32,798	9,384	31,637	2,162	15,496	6,712	3,738	17,149	6,236	253,241	2,671
2012 [1]	21,418	16,997	-	12,163	6,764	23,836	198	13,198	9,020	4,941	15,669	4,546	207,185	2,727
2013 [1]	8,928	15,618	12,937	31,936	7,685	36,372	1,686	13,544	6,511	6,270	23,296	6,238	178,855	3,134
2014 [1]	19,875	14,396	9,156	26,247	6,873	24,090	1,413	9,744	7,613	3,907	19,104	6,378	276,800	1,545
2015 [1]	17,830	14,204	9,204	28,624	9,697	22,520	1,636	8,979	7,008	4,246	18,215	5,293	220,662	1,673
2016 [1]	16,260	13,055	9,725	28,625	6,457	25,208	1,860	9,659	4,444	5,322	23,771	5,582	278,678	1,743
2017 [1]	16,240	11,287	11,212	21,816	6,830	27,356	1,254	12,291	5,489	4,056	17,474	5,709	190,469	717
2018 [1]	12,378	9,998	8,968	22,877	7,084	25,968	1,233	11,625	9,891	3,905	13,554	4,940	199,108	1,371

[1] Preliminary
[2] No estimates available for 2012.

AVERAGE SEASONAL CMU MOURNING DOVE BAG PER HUNTER BY STATE OF HARVEST IN THE CENTRAL MANAGEMENT UNIT (Harvest Information Progran

YR	AR	CO	IA[2]	KS	MN	MO	MT	NE	NM	ND	OK	SD	TX	WY
2003 [1]	18.2	13.7		22.4		18.1	11.7	18.7	21.9	13.6	25.7	18.3	18.0	13.1
2004 [1]	19.5	15.4		19.3	7.8	18.6	7.9	19.2	30.7	12.9	20.5	18.4	19.7	13.7
2005 [1]	19.8	14.3		21.0	8.2	16.0	8.7	20.8	26.7	18.1	24.0	17.9	22.2	13.6
2006 [1]	19.8	13.6		20.1	6.3	15.9	8.5	16.7	31.8	14.3	19.5	16.2	19.8	12.9
2007 [1]	21.4	14.5		20	8.7	14.2	12.3	18.8	23.1	15.4	19.5	17.2	19.9	10.6
2008 [1]	18.1	12.4		16.6	7.4	13.7	8.8	17.6	22.0	9.6	18.7	20.9	17.9	11.9
2009 [1]	15.8	11.9		19.5	9.1	13.7	5.1	17.4	21.9	14.3	20.4	16.2	20.9	8.8
2010 [1]	18.7	10.8		18.1	9.9	14.5	10.7	17.5	21.9	14.1	13.8	12.9	19.2	12.0
2011 [1]	20.5	11.7	9.7	16.3	6.1	11.4	6.7	17.1	11.4	11.2	22.1	14.0	20.0	9.3
2012 [1]	23.1	12.0	-	20.1	9.7	12.4	13.3	16.9	17.8	16.0	22.3	14.4	20.0	9.3
2013 [1]	17.5	11.3	16.6	15.8	7.0	16.2	7.1	17.7	18.9	14.1	18.1	19.0	19.6	10.9
2014 [1]	17.5	12.0	14.2	18.5	8.0	15.5	6.0	17.7	15.1	12.2	21.9	16.7	18.8	13.6
2015 [1]	14.2	14.4	12.1	19.5	10.0	13.6	11.0	17.9	16.0	17.3	16.1	16.0	22.2	8.9
2016 [1]	15.9	10.8	13.2	14.9	15.0	12.8	8.6	13.7	10.8	14.5	16.8	20.1	18.5	11.5
2017 [1]	17.7	10.4	12.0	13.3	5.7	13.4	7.1	14.5	13.5	14.7	18.1	19.6	18.2	13.1
2018 [1]	13.8	12.2	12.0	14.8	7.8	11.9	8.0	16.3	12.8	16.7	13.4	14.1	15.0	10.8

[1] Preliminary
[2] No estimates available for 2012.

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ESTIMATED CENTRAL UNIT WHITE-WINGED DOVE HARVEST (Harvest Information Program)

YR	CO	KS	NM	OK	TX	CU	EU	WU	U.S.
2003 [1]	0	954	40,353	4,652	778,155	824,115	12,867	159,887	996,869
2004 [1]	0	769	46,536	3,527	1,066,300	1,117,132	4,653	171,421	1,293,207
2005 [1]	2,873	1,689	52,094	7,993	1,095,132	1,159,780	12,385	174,014	1,346,179
2006 [1]	906	2,092	66,105	5,514	974,501	1,049,117	46,054	164,300	1,259,471
2007 [1]	3,293	8,778	64,014	17,081	1,522,099	1,615,265	53,180	196,326	1,864,771
2008 [1]	4,813	1,324	49,070	5,241	1,314,921	1,375,368	58,411	179,894	1,613,673
2009 [1]	4,809	4,137	64,527	5,518	1,243,489	1,322,480	85,705	192,735	1,600,920
2010 [1]	4,877	2,229	29,475	4,610	1,436,829	1,478,019	22,051	165,176	1,665,245
2011 [1]	4,109	5,780	34,758	4,261	1,551,987	1,600,896	46,500	198,333	1,845,729
2012 [1]	8,511	0	79,530	3,579	1,414,818	1,506,439	26,032	128,942	1,661,412
2013 [1]	2,268	2,572	33,823	5,341	1,299,710	1,343,714	30,648	152,180	1,526,541
2014 [1]	1,470	2,274	60,856	7,199	1,767,860	1,839,659	28,180	138,725	2,006,565
2015 [1]	955	301	62,316	5,888	1,963,071	2,032,531	9,544	120,001	2,162,076
2016 [1]	2,326	280	35,573	10,701	1,469,670	1,518,551	16,875	131,704	1,667,130
2017 [1]	1,755	289	22,360	13,293	1,252,803	1,290,451	25,171	109,412	1,425,035
2018 [1]	2,924	410	44,943	7,837	1,481,229	1,537,343	23,393	110,752	1,671,488

[1] Preliminary

ESTIMATES OF TOTAL CENTRAL UNIT WHITE-WINGED DOVE HUNTER DAYS AFIELD BY STATE OF HARVEST (Harvest Information Program)

YR	CO	KS	NM	OK	TX	CU	EU	WU	U.S.
2003 [1]	-	1,823	15,018	1,034	357,028	374,903	15,497	101,501	491,901
2004 [1]	-	915	13,401	3,394	383,283	400,993	5,857	112,463	519,313
2005 [1]	3,079	1,419	20,998	5,830	432,998	464,324	9,471	94,405	568,200
2006 [1]	2,451	4,266	17,464	8,719	459,378	492,278	26,897	89,739	608,914
2007 [1]	19,712	6,170	26,351	11,232	519,507	582,972	39,189	102,147	724,308
2008 [1]	9,137	3,376	13,740	8,487	468,181	502,921	31,228	124,451	658,600
2009 [1]	6,588	3,885	20,388	4,756	425,005	460,622	38,983	105,780	605,385
2010 [1]	4,331	4,489	10,388	8,426	470,352	497,986	20,680	117,099	635,765
2011 [1]	3,701	4,444	16,839	6,776	458,529	490,289	31,459	98,949	620,697
2012 [1]	5,602	-	24,400	3,594	423,317	456,913	31,694	81,296	569,903
2013 [1]	2,789	4,277	13,089	11,385	359,966	391,506	27,038	95,867	514,411
2014 [1]	4,244	4,920	15,555	9,915	472,834	507,467	30,406	30,406	611,851
2015 [1]	3,635	5,805	13,182	5,523	511,578	539,723	16,871	59,615	616,209
2016 [1]	1,291	421	9,848	5,748	522,096	539,405	12,768	72,944	625,117
2017 [1]	3,504	2,115	7,949	9,274	407,384	430,226	25,438	63,823	519,487
2018 [1]	2,543	205	18,271	2,409	374,924	398,352	14,094	56,552	468,997

[1] Preliminary

ESTIMATES OF ACTIVE NUMBERS OF CENTRAL UNIT WHITE-WINGED DOVE HUNTERS BY STATE OF HARVEST IN THE CENTRAL MANAGEMENT UNIT (Harvest Information Program)

YR	CO	KS	NM	OK	TX
2003 [1]	0	399	3,299	258	77,211
2004 [1]	0	366	3,383	710	106,369
2005 [1]	961	335	4,002	2,219	109,257
2006 [1]	1,135	562	3,639	1,895	105,319
2007 [1]	2,332	1,789	5,038	2,894	133,209
2008 [1]	3,286	1,306	3,174	2,104	134,888
2009 [1]	2,493	1,804	3,662	1,768	108,579
2010 [1]	1,998	1,124	3,011	2,526	129,213
2011 [1]	1,343	1,547	4,555	1,801	119,769
2012 [1]	2,363		4,803	870	108,125
2013 [1]	1,744	1,625	3,123	3,924	93,848
2014 [1]	1,861	1,304	4,264	1,851	130,377
2015 [1]	1,402	1,519	3,486	2,155	133,697
2016 [1]	415	140	2,748	2,496	137,537
2017 [1]	2,097	1,397	3,100	2,627	118,295
2018 [1]	772	189	6,209	1,247	130,514

[1] Preliminary

AVERAGE SEASONAL CENTRAL UNIT WHITE-WINGED DOVE BAG PER HUNTER BY STATE OF HARVEST IN THE CENTRAL MANAGEMENT UNIT (Harvest Information Program)

YR	CO	KS	NM	OK	TX
2003 [1]	0.0	2.4	12.2	18.0	10.1
2004 [1]	0.0	2.1	13.8	5.0	10.0
2005 [1]	3.0	5.0	13.0	3.6	10.0
2006 [1]	0.8	3.7	18.2	2.9	9.3
2007 [1]	1.4	4.9	12.7	5.9	11.4
2008 [1]	1.5	1.0	15.5	2.5	9.7
2009 [1]	1.9	2.3	17.6	3.1	11.5
2010 [1]	2.4	2.0	9.8	1.8	11.1
2011 [1]	3.1	3.7	7.6	2.4	13.0
2012 [1]	3.6		16.6	4.1	13.1
2013 [1]	1.3	1.6	10.8	1.4	13.8
2014 [1]	0.8	1.7	14.3	3.9	13.6
2015 [1]	0.7	0.2	17.9	2.7	14.7
2016 [1]	5.6	2.0	12.9	4.3	10.7
2017 [1]	0.8	0.2	7.2	5.1	10.6
2018 [1]	3.8	2.2	7.2	6.3	11.4

[1] Preliminary

ESTIMATED FOUR CORNERS BAND-TAILED PIGEON HARVEST (Harvest Information Program)

YR	AZ	CO	NM	UT	Four Corners	Pacific Coast	U.S.
2003 [1]	1,400	900	400	100	2,800	14,400	17,200
2004 [1]	1,400	500	700	200	2,800	17,900	20,700
2005 [1]	2,200	100	300	100	2,700	13,500	16,200
2006 [1]	500	600	100	400	1,600	14,900	16,500
2007 [1]	1,000	900	2,800	200	4,900	12,700	17,600
2008 [1]	1,614	2,523	582	0	4,719	30,151	34,870
2009 [1]	2,339	1,396	1,270	0	5,005	22,638	27,643
2010 [1]	671	1,457	2,661	223	5,012	18,384	23,396
2011 [1]	952	298	466	93	1,809	11,933	13,742
2012 [1]	1,325	1,091	332	98	2,846	10,851	13,697
2013 [1]	879	40	190	509	1,618	6,808	8,327
2014 [1]	736	424	207	142	1,509	12,033	13,543
2015 [1]	464	171	100	17	752	7,347	8,098
2016 [1]	479	213	177	239	1,108	5,865	6,972
2017 [1]	82	30	163	0	276	6,033	6,308
2018 [1]	128	N/A	58	11	197	11,631	11,828

[1] Preliminary

ESTIMATES OF TOTAL FOUR CORNERS BAND-TAILED PIGEON HUNTER DAYS AFIELD BY STATE OF HARVEST (Harvest Information Program)

YR	AZ	CO	NM	UT	Four Corners	Pacific Coast	U.S.
2003 [1]	3,700	2,100	1,400	600	7,800	18,200	26,000
2004 [1]	2,300	700	300	100	3,400	13,900	17,300
2005 [1]	1,600	300	400	200	2,500	11,000	13,500
2006 [1]	1,100	1,700	300	200	3,300	15,400	18,700
2007 [1]	5,000	3,800	3,600	400	12,800	13,500	26,300
2008 [1]	3,316	6,080	2,140	677	12,213	31,284	43,498
2009 [1]	4,146	6,127	2,343	593	13,209	24,384	37,593
2010 [1]	5,819	3,895	3,195	670	13,578	13,679	27,257
2011 [1]	944	652	851	340	2,787	12,769	15,556
2012 [1]	4,765	1,292	540	196	6,794	9,795	16,589
2013 [1]	840	539	376	254	2,009	6,201	8,209
2014 [1]	1,915	778	274	355	3,322	8,779	12,100
2015 [1]	1,727	628	493	133	2,981	6,187	9,168
2016 [1]	421	136	128	130	815	6,335	7,149
2017 [1]	140	56	296	32	524	6,125	6,649
2018 [1]	566	N/A	210	57	833	8,929	9,762

[1] Preliminary

ESTIMATES OF ACTIVE NUMBERS OF FOUR CORNERS BAND-TAILED PIGEON HUNTERS BY STATE OF HARVEST IN THE FOUR CORNERS POPULATION (Harvest Information Program)

YR	AZ	CO	NM	UT
2003 [1]	1,500	400	400	300
2004 [1]	900	300	100	<50
2005 [1]	800	200	100	100
2006 [1]	600	900	100	200
2007 [1]	2,100	1,400	800	300
2008 [1]	1,288	2,324	550	315
2009 [1]	1,322	2,390	500	198
2010 [1]	1,770	1,068	931	335
2011 [1]	538	210	257	155
2012 [1]	1,087	285	146	131
2013 [1]	380	242	113	254
2014 [1]	982	297	150	71
2015 [1]	596	214	140	67
2016 [1]	129	58	56	22
2017 [1]	82	32	105	12
2018 [1]	149	N/A	94	19

[1] Preliminary

AVERAGE SEASONAL FOUR CORNERS BAND-TAILED PIGEON BAG PER HUNTER BY STATE OF HARVEST IN THE FOUR CORNERS POPULATION (Harvest Information Program)

YR	AZ	CO	NM	UT
2003 [1]	1.0	2.3	1.1	0.5
2004 [1]	1.5	1.6	4.9	3.8
2005 [1]	2.6	0.8	3.2	1.5
2006 [1]	0.9	0.7	0.4	2.5
2007 [1]	0.5	0.6	3.5	0.6
2008 [1]	1.3	1.1	1.1	0.0
2009 [1]	1.8	0.6	2.5	0.0
2010 [1]	0.4	1.4	2.9	0.7
2011 [1]	1.8	1.4	1.8	0.6
2012 [1]	1.2	3.8	2.3	0.8
2013 [1]	2.3	0.2	1.7	2.0
2014 [1]	0.8	1.4	1.4	2.0
2015 [1]	0.8	0.8	0.7	0.3
2016 [1]	3.7	3.7	3.1	11.0
2017 [1]	1.0	0.9	1.6	0.0
2018 [1]	0.9	N/A	0.6	0.6

[1] Preliminary

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ESTIMATED CMR AMERICAN WOODCOCK HARVEST (Harvest Information Program)

YR	AL	AR	IL	IN	IA	KS	KY	LA	MI	MN	MS	MO	NE	OH	OK	TN	TX	WI	CMR	EMR	U.S.
2003 [1]	4,200	600	2,200	1,800	900	200	2,600	10,400	121,500	29,900	400	2,100	100	2,500	2,800	1,000	0	30,300	213,500	89,200	302,700
2004 [1]	2,200	2,800	1,900	7,900	1,700	100	1,900	20,200	102,500	38,500	900	900	<50	4,600	200	400	800	47,300	234,800	135,400	370,200
2005 [1]	100	1,500	3,900	4,400	1,000	0	800	18,100	106,800	42,200	0	1,300	0	6,900	0	400	0	37,600	225,000	72,200	297,200
2006 [1]	300	2,900	2,200	2,400	1,500	100	300	19,000	116,200	38,700	600	400	100	4,100	<50	700	0	43,000	232,600	79,300	311,900
2007 [1]	700	10,500	3,800	1,200	100	<50	300	21,700	86,800	34,400	600	900	200	2,600	0	800	1,500	48,000	214,200	75,900	290,000
2008 [1]	2,292	3,100	4,252	832	1,597	1,983	1,504	13,309	78,900	19,871	382	2,623	0	2,307	21	615	4,675	35,999	174,262	104,701	278,963
2009 [1]	5,946	6,616	5,345	1,658	673	27	0	24,693	80,934	15,998	1,281	873	90	1,160	162	424	0	29,240	175,121	63,274	238,395
2010 [1]	599	248	878	3,023	1,660	0	6,790	32,989	93,229	34,835	1,373	3,031	61	1,715	3,108	5,071	2,249	42,282	233,140	99,798	332,938
2011 [1]	1,593	615	3,718	1,763	209	0	181	24,359	106,885	44,242	446	895	0	2,306	17	578	1,295	42,570	231,673	77,049	308,722
2012 [1]	3,505	4,165	1,898	580	0	1,345	213	20,009	74,051	30,958	218	894	1,282	1,470	592	1,548	9,935	40,361	193,024	86,433	279,457
2013 [1]	1,425	70	1,045	1,396	4,196	15	2,848	7,408	79,348	18,569	2,579	7,670	0	8,565	321	1,255	5,475	38,375	180,558	62,537	243,095
2014 [1]	769	195	286	660	142	8	62	9,364	53,528	23,925	760	600	1,433	279	74	52	46	49,313	141,496	58,589	200,085
2015 [1]	6,127	7,273	174	572	319	345	579	3,519	63,187	25,622	3,576	382	0	2,132	0	0	907	30,960	145,673	54,486	200,159
2016 [1]	92	2,980	1,633	897	2,886	0	2,410	1,860	64,863	25,936	12	3,408	574	3,248	0	0	12,142	35,077	157,973	44,352	202,325
2017 [1]	628	611	357	1,524	1,862	79	942	9,895	66,109	26,653	367	179	0	445	0	89	0	31,142	140,883	62,653	203,536
2018 [1]	226	10,090	0	162	0	80	253	10,593	59,632	22,500	447	156	0	588	86	306	0	25,498	130,615	49,580	180,195

[1] Preliminary

ESTIMATES OF TOTAL CMR AMERICAN WOODCOCK HUNTER DAYS AFIELD BY STATE OF HARVEST (Harvest Information Program)

YR	AL	AR	IL	IN	IA	KS	KY	LA	MI	MN	MS	MO	NE	OH	OK	TN	TX	WI	CMR	EMR	U.S.
2003 [1]	14,300	4,600	12,200	6,000	4,200	600	2,000	7,400	159,000	48,700	3,400	8,000	900	10,300	15,400	1,200	6,000	65,600	369,800	152,300	522,100
2004 [1]	1,000	20,100	3,500	5,300	8,800	200	1,300	14,100	147,000	67,000	3,600	3,700	100	18,200	2,800	1,700	6,600	61,100	366,100	135,400	501,500
2005 [1]	200	9,200	5,300	7,400	2,200	0	2,900	16,700	151,200	60,200	0	5,000	300	15,800	0	500	6,300	73,100	356,300	164,200	520,500
2006 [1]	400	6,800	8,900	4,400	4,300	300	900	10,900	155,300	60,200	3,900	3,800	700	9,800	600	800	0	72,400	344,400	144,200	488,600
2007 [1]	700	9,300	7,600	3,300	4,600	3,100	3,400	17,200	138,900	62,800	1,800	900	13,800	9,300	0	400	2,100	79,100	358,500	145,000	503,500
2008 [1]	3,099	24,179	6,098	2,377	4,332	2,833	9,369	16,222	156,012	37,899	1,818	7,306	4,408	10,310	8,352	397	9,350	65,433	369,792	169,012	538,804
2009 [1]	6,539	8,077	6,208	3,984	1,781	31	29	20,772	146,177	38,267	3,722	1,179	72	7,249	81	1,025	0	77,118	322,310	177,982	500,292
2010 [1]	1,539	207	1,220	3,941	7,431	692	6,732	28,224	159,240	55,423	2,960	6,039	762	4,306	17,613	4,895	25,473	65,744	392,441	146,705	539,146
2011 [1]	7,473	1,025	8,824	4,139	1,560	29	181	18,430	143,986	76,937	531	1,123	0	10,243	170	5,446	1,413	69,039	350,548	155,961	506,509
2012 [1]	4,860	3,181	3,482	1,492	4,356	5,135	324	11,028	121,418	40,366	196	2,010	4,486	2,585	3,422	739	9,795	58,035	276,909	137,796	414,705
2013 [1]	1,518	349	3,442	1,581	8,308	1,082	1,917	2,540	123,682	74,665	2,552	8,490	644	8,569	206	1,303	5,187	60,041	306,076	136,680	442,757
2014 [1]	436	390	2,644	903	957	992	49	5,844	87,522	47,527	5,446	2,237	1,074	4,544	100	364	182	66,433	227,643	119,717	347,360
2015 [1]	5,072	4,832	1,257	1,106	2,509	2,762	2,607	12,277	124,717	47,607	2,271	644	0	7,547	1,831	0	593	66,554	284,184	115,494	399,677
2016 [1]	1,446	13,415	13,158	1,302	1,770	418	1,517	4,551	107,126	45,990	1,279	6,249	574	8,230	0	9,757	28,352	55,073	300,206	96,115	396,322
2017 [1]	2,184	4,747	317	2,852	2,434	73	829	14,472	122,793	45,667	2,422	1,331	96	4,995	0	2,632	12,107	52,420	272,373	115,355	387,728
2018 [1]	501	7,734	82	209	0	159	279	11,149	135,774	41,521	368	234	0	823	572	612	0	45,941	245,958	99,176	345,134

[1] Preliminary

ESTIMATES OF ACTIVE NUMBERS OF CMR AMERICAN WOODCOCK HUNTERS BY STATE OF HARVEST IN THE CENTRAL REGION (Harvest Information Program)

YR	AL	AR	IL	IN	IA	KS	KY	LA	MI	MN	MS	MO	NE	OH	OK	TN	TX	WI
2003 [1]	4,000	1,800	2,400	700	1,500	100	1,500	1,600	35,100	14,300	2,000	1,700	400	3,400	1,300	100	5,900	16,100
2004 [1]	600	3,600	1,200	1,100	1,800	<50	900	3,600	31,200	14,500	1,100	2,500	<50	2,600	500	200	6,200	15,700
2005 [1]	<50	3,800	2,100	2,100	800	0	1,000	5,500	28,000	12,000	0	1,200	300	4,700	0	200	6,200	15,600
2006 [1]	200	3,000	2,000	1,000	2,100	300	100	4,000	30,000	14,900	1,200	1,500	600	2,200	500	100	0	19,400
2007 [1]	100	2,600	3,100	1,800	1,100	600	800	4,800	28,400	15,300	600	200	500	2,600	0	100	600	17,300
2008 [1]	1,016	5,063	2,124	943	1,576	567	2,544	5,995	34,633	8,672	550	2,757	882	2,909	659	98	4,675	14,231
2009 [1]	2,084	3,012	1,846	1,095	856	9	7	4,319	26,411	9,729	1,046	179	36	1,641	17	247	0	19,425
2010 [1]	1,202	124	843	1,038	3,169	326	2,865	9,110	31,064	13,888	1,006	2,614	640	1,828	1,036	1,640	10,092	14,591
2011 [1]	2,463	205	2,874	1,101	1,036	14	45	6,572	28,422	17,028	137	186	0	3,119	26	1,582	236	15,226
2012 [1]	2,297	1,120	857	382	944	1,345	19	4,846	25,744	11,176	87	1,349	641	582	1,148	92	4,898	13,651
2013 [1]	1,012	139	1,593	718	1,832	363	961	2,540	30,038	10,909	1,163	2,925	644	2,979	38	1,206	4,851	14,520
2014 [1]	51	156	842	263	465	952	12	2,682	19,389	13,502	1,616	1,280	358	1,595	26	104	114	16,155
2015 [1]	992	1,221	956	409	1,366	1,381	734	2,797	25,997	13,488	580	127	0	1,892	1,831	0	140	14,653
2016 [1]	1,354	4,050	1,527	321	498	418	1,063	946	24,064	13,456	646	2,247	574	2,597	0	1,412	11,325	11,670
2017 [1]	1,751	1,545	119	1,054	1,011	20	133	3,516	24,131	11,895	1,563	861	16	1,928	0	1,286	12,107	11,700
2018 [1]	176	2,467	41	93	0	53	66	5,214	29,328	10,400	105	78	0	470	29	184	0	10,841

[1] Preliminary

AVERAGE SEASONAL CMR AMERICAN WOODCOCK BAG PER HUNTER BY STATE OF HARVEST IN THE CENTRAL REGION (Harvest Information Program)

YR	AL	AR	IL	IN	IA	KS	KY	LA	MI	MN	MS	MO	NE	OH	OK	TN	TX	WI
2003 [1]	1.1	0.3	0.9	2.6	0.6	3.0	1.8	6.6	3.5	2.1	0.2	1.2	0.2	0.7	2.1	7.5	0.0	1.9
2004 [1]	3.5	0.8	1.6	7.1	1.0	2.6	2.2	5.6	3.3	2.7	0.8	0.4	1.8	1.8	0.4	1.7	0.1	3.0
2005 [1]	4.0	0.4	1.8	2.1	1.3	0.0	0.9	3.3	3.8	3.5	0.0	1.1	0.0	1.5	0.0	2.5	0.0	2.4
2006 [1]	2.0	1.0	1.1	2.4	0.7	0.2	2.6	4.8	3.9	2.6	0.5	0.3	0.1	1.8	<0.05	5.3	0.0	2.2
2007 [1]	7.0	4.0	1.2	0.7	0.1	<0.1	0.3	4.6	3.1	2.2	1.0	4.5	0.3	1.0	0.0	6.0	2.5	2.8
2008 [1]	2.3	0.6	2.0	0.9	1.0	3.5	0.6	2.2	2.3	2.3	0.7	1.0	0.0	0.8	0.0	6.3	1.0	2.5
2009 [1]	2.9	2.2	2.9	1.5	0.8	3.0	0.0	5.7	3.1	1.6	1.2	4.9	2.5	0.7	9.3	1.7	0.0	1.5
2010 [1]	0.5	2.0	1.0	2.9	0.5	0.0	2.4	3.6	3.0	2.5	2.6	1.2	0.1	0.9	3.0	4.3	0.5	2.9
2011 [1]	0.6	3.0	1.3	1.6	0.2	0.0	4.0	3.7	3.8	2.6	3.3	4.8	0.0	0.7	0.7	0.4	5.5	2.8
2012 [1]	1.5	3.7	2.2	1.5	0.0	1.0	11.5	4.1	2.9	2.8	2.5	0.7	2.0	2.5	0.5	16.8	2.0	3.0
2013 [1]	1.4	0.5	0.7	2.0	2.3	0.0	3.0	2.9	2.6	1.7	2.2	2.6	0.0	2.9	8.4	1.0	1.1	2.6
2014 [1]	15.0	1.3	0.3	2.5	0.3	0.0	5.0	3.5	2.8	1.8	0.5	0.5	4.0	0.2	2.8	0.5	0.4	3.1
2015 [1]	6.2	6.0	0.2	1.4	0.2	0.3	0.8	1.3	2.4	1.9	6.2	3.0	0.0	1.1	0.0	0.0	6.5	2.1
2016 [1]	0.1	0.7	1.1	2.8	5.8	0.0	2.3	1.9	2.7	1.9	0.0	1.5	1.0	1.3	0.0	0.0	1.1	3.0
2017 [1]	0.4	0.4	3.0	1.5	1.8	4.0	7.1	2.8	2.7	2.2	0.2	0.2	0.0	0.2	0.0	0.1	0.0	2.7
2018 [1]	1.3	4.1	0.0	1.8	0.0	1.5	3.8	2.0	2.0	2.2	4.3	2.0	0.0	1.3	3.0	1.7	0.0	2.4

[1] Preliminary

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WATERFOWL POPULATION SURVEYS

RESULTS OF 2019 WINTER GOOSE SURVEYS IN THE CENTRAL FLYWAY[1]

January 2019 Mid-winter Waterfowl Survey

State	CANADA GEESE								LIGHT GEESE		W-F	TOTAL
	Hi-Line	West Tier CFAN [3]	East Tier CFAN [3]	EPP	WP/GP	RMP	Unclass.	Total	W-CF	M-C		
Montana	97,785	3,190	0	0	0	0	0	100,975	5	0	0	100,980
No. Dakota	0	0	0	0	99,119	0	0	99,119	0	0	0	99,119
So. Dakota	0	0	48	0	117,758	0	0	117,806	0	50	0	117,856
Wyoming	63,932	8,521	0	0	0	7,653	0	80,106	15	0	0	80,121
Nebraska	1,783	0	0	0	315,910	0	0	317,693	0	11,206	863	329,762
Colorado	106,583	69,282	0	0	0	0	0	175,865	76,793	0	25	252,683
Kansas	0	210	239	540	9,775	0	107,070	117,834	0	502,968	3,504	624,306
N. Mexico	4,450	12,643	0	0	0	0	483	17,576	9,500	0	0	27,076
Oklahoma	0	0	143,272	0	3,379	0	0	146,651	0	116,376	3,945	266,972
Texas	0	288,968	86,675	0	0	0	0	375,643	85,140	407,240	166,948	1,034,971

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

Central Flyway Goose Population Survey Results[2]

Year	CANADA GEESE								LIGHT GEESE		W-F	TOTAL
	Hi-Line	West Tier CFAN	East Tier CFAN	EPP	WP/GP	RMP	Unclass.	Total	W-CF	M-C		
2019	274,533	382,814	230,234	540	545,941	7,653	107,553	1,549,268	171,453	1,037,840	175,285	2,933,846
2018	505,849	553,027	383,050	24,665	577,168	14,966	376,041	2,434,766	311,330	1,497,239	110,572	4,353,907
2017	286,753	468,094	222,882	30	608,739	13,659	119,421	1,719,578	227,135	908,201	101,384	2,956,298
2016	280,194	452,913	172,297	1,523	538,160	9,172	96,735	1,550,994	239,480	1,182,399	107,828	3,080,701
2015	238,844	547,700	280,438	15,200	455,846	13,384	262,389	1,813,801	243,253	1,048,902	69,266	3,175,222
2014	281,324	379,214	188,068	900	568,818	37,894	146,907	1,603,125	264,836	959,798	27,006	2,854,765
2013	341,302	256,268	263,271	2,375	768,818	23,617	37,831	1,693,482	225,936	1,125,582	48,187	3,093,187
2012	339,436	292,795	450,786	34,343	555,355	9,111	27,129	1,708,955	205,331	616,427	78,812	2,609,525
2011	273,025	310,657	427,063	675	499,029	16,418	13,479	1,540,346	196,013	1,058,853	128,171	2,923,383
2010	239,617	290,724	417,044	9,500	462,794	10,294	15,790	1,445,763	238,084	618,794	161,119	2,463,760
2009	222,071	221,590	309,909	20,900	627,977	15,798	70,260	1,488,505	284,446	775,650	103,172	2,651,773
2008	269,289	212,421	402,718	50	669,524	9,188	21,789	1,584,979	188,515	627,426	82,936	2,483,856
2007	180,215	190,531	680,301	43,700	445,959	19,512	37,413	1,597,631	170,642	1,076,557	243,081	3,087,911
2006	247,265	234,737	499,801	2,160	444,410	6,883	13,435	1,448,691	140,587	808,508	304,093	2,701,879
2005	207,401	177,195	400,766	50,000	415,131	15,849	5,175	1,271,517	142,974	877,917	147,783	2,440,191
2004	215,586	203,586	458,680	26,000	622,100	13,228	69,595	1,608,775	135,373	726,999	79,389	2,550,536
2003	205,939	156,661	611,842	40,500	561,049	5,119	24,907	1,606,017	105,900	826,981	213,343	2,752,241
2002	217,145	160,873	504,708	8,100	710,260	7,396	16,873	1,625,355	99,875	675,453	260,849	2,661,532
2001	257,929	164,084	149,090	900	677,729	13,327	18,329	1,281,388	105,754	751,928	141,189	2,280,259
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	2,739,562
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	3,191,992
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	1,208,606	215,254	2,862,124
1995-96	167,524	414,829	263,996	20,800	403,318		66,445	1,336,912	93,054	835,565	154,519	2,420,050
1994-95	173,752	481,951	244,988	27,500	352,495		35,520	1,316,206	80,127	1,203,360	194,845	2,794,538
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	895,951	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.

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[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.

[3] Starting in 2014, SGP and TGP populations have been combined into one population: Central Flyway Arctic Nesting (CFAN) Canada Geese. For the MWS they will be split out by West Tier and East Tier segments.

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	29,590	23,300	103,290
1977/78		53,100	140,605	43,900	237,605
1978/79		49,300	69,005	59,700	178,005
1979/80		59,000	107,127	56,500	222,627
1980/81		67,500	110,950	34,400	212,850
1981/82		65,600	155,850	49,200	270,650
1982/83		62,000	110,835		172,835
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	194,530		266,030
1987/88		76,700	90,626	28,325	195,651
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	13,604	476,172
2006/07	751,295	236,651	243,081		479,732
2007/08	764,259	244,766	82,936		327,702
2008/09	751,723	211,754	103,172	NS	314,926
2009/10	583,216	276,465	161,119		437,584
2010/11	709,836	246,362	128,171		374,533
2011/12	685,722	392,711	78,812	NS	471,523
2012/13	777,872	209,183	48,187		257,370
2013/14 [4]	NS	311,794	27,006		338,800
2014/15	1,005,591	385,982	69,266	NS	455,248
2015/16	977,090	481,796	107,828		589,624
2016/17	1,000,132	444,570	101,384		545,954
2017/18	771,609	696,368	110,572	NS	806,940
2018/19	774,097	601,851	175,285		777,136
3-YEAR AVERAGES:					
1984/85 - 86/87		77,133	147,645	38,470	263,248
1985/86 - 87/88		75,600	125,952	28,325	229,877
1986/87 - 88/89		88,233	129,410	28,325	245,968
1987/88 - 89/90		98,833	94,843	28,325	222,001
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	13,604	333,836
2004/05 - 2006/07	639,469	177,377	231,652	13,604	413,564
2005/06 - 2007/08	679,455	213,297	210,037	13,604	427,869
2006/07 - 2008/09	755,759	231,057	143,063	13,604	374,120
2007/08 - 2009/10	699,733	244,328	115,742	13,604	360,071
2008/09 - 2010/11	681,592	244,860	130,821	13,604	375,681
2009/10 - 2011/12	659,591	305,179	122,701	13,604	427,880
2010/11 - 2012/13	724,477	282,752	85,057	13,604	367,809
2011/12 - 2013/14 [4]	723,135	304,563	51,335	13,604	355,898
2012/13 - 2014/15 [5]	891,732	302,320	48,153	13,604	350,473
2013/14 - 2015/16 [5]	991,341	393,191	68,033	13,604	461,224
2014/15 - 2016/17	994,271	437,449	92,826	13,604	530,275
2015/16 - 2017/18	916,277	540,911	106,595	13,604	647,506
2016/17 - 2018/19	848,613	580,930	129,080	13,604	710,010

POPULATION OBJECTIVES:

POPULATION THAT PROVIDES OPTIMUM HARVEST OPPORTUNITIES

REGULATORY THRESHOLDS:

WEST TIER [6]	NO THRESHOLD
REST OF CF	
CLOSED	3-YR AVE <250,000
RESTRICTIVE	3-YR AVE <600,000 AND HARVEST RATE >6%
STANDARD	3-YR AVE >600,000 OR HARVEST RATE <6%

09/20/19

[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. Mexico surveys have not been conducted since 2005
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.

[4] Survey was not completed in Fall 2013 due to the US Federal Gov't Shutdown. Used previous 3 yr average

[5] Three-year average only contains 2 years since the 2013 survey was not completed.

[6] Except the West Tier of Texas.

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

YR	CF ARCTIC NESTING GEESE EAST TIER CFAN [3]	CF ARCTIC NESTING GEESE WEST TIER CFAN [3]	HI-LINE [2]	WESTERN PRAIRIE/ GR. PLAINS[1]	EASTERN PRAIRIE C. FLYWAY[1]	EASTERN PRAIRIE M. FLYWAY[1]	EASTERN PRAIRIE TOTAL
1969/70			44,200			106,600	106,600
1970/71			40,500			126,300	126,300
1971/72			31,400			157,400	157,400
1972/73			35,600			181,400	181,400
1973/74			24,500			205,800	205,800
1974/75			41,200			197,100	197,100
1975/76			55,600			204,400	204,400
1976/77			80,900			254,200	254,200
1977/78			80,000			270,200	270,200
1978/79			43,500			207,200	207,200
1979/80			86,900			171,800	171,800
1980/81			107,800			150,900	150,900
1981/82			78,000	160,200		145,300	145,300
1982/83			79,000	202,100		210,400	210,400
1983/84			39,800	91,400		162,700	162,700
1984/85			76,400	160,600		167,600	167,600
1985/86			68,800	36,500		169,000	169,000
1986/87			117,400	174,400		182,700	182,700
1987/88			65,500	272,100		228,400	228,400
1988/89			99,900	245,900		184,500	184,500
1989/90			101,800	216,000		324,900	324,900
1990/91			116,600	328,700		218,400	218,400
1991/92			136,800	305,900	(51,000)	189,352	189,400
1992/93			117,294	318,029	26,600	146,369	172,969
1993/94			164,334	272,487	1,800	116,218	118,018
1994/95			173,752	352,495	27,500	233,773	261,273
1995/96			167,524	403,318	20,800	255,700	276,500
1996/97			148,527	453,358	0	67,255	67,255
1997/98			190,985	482,290	1,200	119,564	120,764
1998/99			119,460	467,137	45,000	NA	45,000
2000			270,730	599,292	13,050	NA	13,050
2001			257,929	677,729	900	NA	900
2002			217,145	710,260	8,100	NA	8,100
2003			205,939	561,049	40,500	NA	40,500
2004			215,586	622,100	26,000	NA	26,000
2005			207,401	415,131	50,000	NA	50,000
2006			247,265	444,410	2,160	NA	2,160
2007			180,215	445,959	43,700	NA	43,700
2008			269,289	669,524	50	NA	50
2009			222,071	627,977	20,900	NA	20,900
2010			239,617	462,794	9,500	NA	9,500
2011			273,025	499,029	675	NA	675
2012			339,436	555,355	34,343	NA	34,343
2013			341,302	768,818	2,375	NA	2,375
2014	188,068	379,214	281,324	568,818	900	NA	900
2015	280,438	547,700	238,844	455,846	15,200	NA	15,200
2016	172,297	452,913	280,194	538,160	1,523	NA	1,523
2017	222,882	468,094	286,753	608,739	30	NA	30
2018	383,050	553,027	505,849	577,168	24,665	NA	24,665
2019	230,234	382,814	274,533	545,941	540	NA	540
3-YEAR AVERAGES:							
1978/79 - 80/81			79,400			176,633	176,633
1979/80 - 81/82			90,900	160,200		156,000	156,000
1980/81 - 82/83			88,267	181,150		168,867	168,867
1981/82 - 83/84			65,600	151,233		172,800	172,800
1982/83 - 84/85			65,067	151,367		180,233	180,233
1983/84 - 85/86			61,667	96,167		166,433	166,433
1984/85 - 86/87			87,533	123,833		173,100	173,100
1985/86 - 87/88			83,900	161,000		193,367	193,367
1986/87 - 88/89			94,267	230,800		198,533	198,533
1987/88 - 89/90			89,067	244,667		245,933	245,933
1988/89 - 90/91			106,100	263,533		242,600	242,600
1989/90 - 91/92			118,400	283,533		244,217	244,233
1990/91 - 92/93			123,565	317,543	26,600	184,707	193,590
1991/92 - 93/94			139,476	298,805	14,200	150,646	160,129
1992/93 - 94/95			151,793	314,337	18,633	165,453	184,087
1993/94 - 95/96			168,537	342,767	16,700	201,897	218,597
1994/95 - 96/97			163,268	403,057	16,100	185,576	201,676
1995/96 - 97/98			169,012	446,322	7,333	147,506	154,840
1996/97 - 98/99			152,991	467,595	15,400	NA	77,673
1997/98 - 2000			193,725	516,240	19,750	NA	59,605
1998/99 - 2001			216,040	581,386	19,650	NA	19,650
2000 - 2002			248,601	662,427	7,350	NA	7,350
2001 - 2003			227,004	649,679	16,500	NA	16,500
2002 - 2004			212,890	631,136	24,867	NA	24,867
2003 - 2005			209,642	532,760	38,833	NA	38,833
2004 - 2006			223,417	493,880	26,053	NA	26,053
2005 - 2007			211,627	435,167	31,953	NA	31,953
2006 - 2008			232,256	519,964	15,303	NA	15,303
2007 - 2009			223,858	581,153	21,550	NA	21,550
2008 - 2010			243,659	586,765	10,150	NA	10,150
2009 - 2011			244,904	529,933	10,358	NA	10,358
2010 - 2012			284,026	505,726	14,839	NA	14,839
2011 - 2013			317,921	607,734	12,464	NA	12,464
2012 - 2014			320,687	630,997	12,539	NA	12,539
2013 - 2015			287,157	597,827	6,158	NA	6,158
2014 - 2016	213,601	459,942	266,787	520,941	5,874	NA	5,874
2015 - 2017	225,206	489,569	268,597	534,248	5,584	NA	5,584
2016 - 2018	259,410	491,345	357,599	574,689	8,739	NA	8,739
2017 - 2019	278,722	467,978	355,712	577,283	8,412	NA	8,412
POPULATION OBJECTIVES:	SPRING[3]	SPRING[3]	SPRING	WINTER			SPRING
			150,000 (3-year ave)	275,000-300,000 (3-year ave)			300,000
REGULATORY THRESHOLDS:				150,000 (restrict)			SPRING 260,000
				285,000 (increase)			340,000

No data before 2014, see historic SGP and TGP results in CF MWS report 2013.

No data before 2014, see historic SGP and TGP results in CF MWS report 2013.

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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] Starting in 2014, SGP and TGP populations have been combined into one population: Central Flyway Arctic Nesting (CFAN) Canada Geese with a minimum population objective of 1 million birds based on a Lincoln index for the fall population. For the MWS they will be split out by West Tier and East Tier goose hunting zones. SGP and TGP historic counts can be found in the CF MWS 2013 report. Desired winter abundance is 350,000 (150,000 west-tier and 200,000 east-tier).

CENTRAL FLYWAY SNOW/ROSS'S GOOSE POPULATION STATUS [1], OBJECTIVES, AND REGULATORY THRESHOLDS

YR	WESTERN CENTRAL FLYWAY U.S.	MEXICO [2]	TOTAL	MID-CONTINENT POPULATION CENTRAL FLYWAY	MISS. FLYWAY	TOTAL
1969/70	6,925	34,831	41,756	352,390	424,625	777,015
1970/71	11,140		11,140	415,254	654,900	1,070,154
1971/72	13,011		13,011	376,094	937,300	1,313,394
1972/73	11,579		11,579	492,965	532,300	1,025,265
1973/74	16,200		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		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	30,449	65,270	95,719	803,801	594,275	1,398,076
1980/81	37,551	44,855	82,406	902,043	504,650	1,406,693
1981/82	50,005	107,630	157,635	925,705	868,350	1,794,055
1982/83	76,102		76,102	923,340	832,125	1,755,465
1983/84	43,038		43,038	905,538	589,000	1,494,538
1984/85	62,905	83,605	146,510	980,220	992,825	1,973,045
1985/86	96,591		96,591	837,611	611,750	1,449,361
1986/87	63,545		63,545	900,437	1,013,375	1,913,812
1987/88	46,217	92,025	138,242	735,922	1,014,775	1,750,697
1988/89	67,637		67,637	598,132	1,358,100	1,956,232
1989/90	38,686		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		87,885	908,373	1,113,491	2,021,864
1992/93	45,145		45,145	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	80,127		80,127	1,203,360	1,521,732	2,725,092
1995/96	93,054		93,054	835,565	1,562,513	2,398,078
1996/97	127,172	88,910	216,082	1,208,606	1,749,080	2,957,686
1997/98	103,522		103,522	1,058,685	1,963,543	3,022,228
1998/99[1]	236,365		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		105,754	751,928	1,589,344	2,341,272
2002 [3]	99,875		99,875	675,453	2,020,687	2,696,140
2003	105,900	61,519	167,419	826,981	1,608,046	2,435,027
2004	135,373		135,373	726,999	1,487,325	2,214,324
2005	142,974		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
2007 [5]	170,642		170,642	1,076,557	1,840,537	2,917,094
2008	188,515		188,515	627,426	1,827,625	2,455,051
2009	284,446		284,446	775,650	1,977,793	2,753,443
2010	238,084		238,084	618,794	2,038,686	2,657,480
2011	196,013		196,013	1,058,853	2,116,340	3,175,193
2012	205,331		205,331	616,427	3,404,795	4,021,222
2013	225,936		225,936	1,125,582	3,488,405	4,613,987
2014	264,836		264,836	959,798	2,854,885	3,814,683
2015	243,253		243,253	1,048,902	2,235,150	3,284,052
2016	239,480		239,480	1,182,398	2,270,243	3,452,641
2017	227,135		227,135	908,201	2,508,872	3,417,073
2018	311,330		311,330	1,497,239	2,563,911	4,061,150
2019	171,453		171,453	1,037,840	2,911,103	3,948,943
3-YEAR AVERAGES:						
1979/80 - 81/82	39,335	72,585	111,920	877,183	655,758	1,532,941
1980/81 - 82/83	54,553	76,243	130,795	917,029	735,042	1,652,071
1981/82 - 83/84	56,382	107,630	164,012	918,194	763,158	1,681,353
1982/83 - 84/85	60,682	83,605	144,287	936,366	804,650	1,741,016
1983/84 - 85/86	67,511	83,605	151,116	907,790	731,192	1,638,981
1984/85 - 86/87	74,347	83,605	157,952	906,089	872,650	1,778,739
1985/86 - 87/88	68,784	92,025	160,809	824,657	879,967	1,704,623
1986/87 - 88/89	59,133	92,025	151,158	744,830	1,128,750	1,873,580
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	79,218	77,905	157,123	789,852	1,170,781	1,967,249
1991/92 - 93/94	72,635	169,460	242,095	939,831	1,049,089	1,988,920
1992/93 - 94/95	70,049	169,460	239,509	1,038,160	1,185,170	2,223,330
1993/94 - 95/96	86,018	169,460	255,478	1,018,031	1,423,297	2,441,328
1994/95 - 96/97	100,118	88,910	189,028	1,082,510	1,611,108	2,693,619
1995/96 - 97/98	107,916	88,910	196,826	1,034,285	1,758,379	2,792,664
1996/97 - 98/99	155,686	88,910	244,596	1,127,225	1,724,655	2,851,880
1997/98 - 2000	159,141	118,445	277,586	1,076,704	1,588,387	2,665,091
1998/99 - 2001	159,885	118,445	278,330	974,451	1,463,654	2,438,106
1999/00 - 2002	114,388	118,445	232,833	828,141	1,650,103	2,478,244
2001 - 2003	103,843	61,519	165,362	751,454	1,739,359	2,490,813
2002-2004	113,716	61,519	175,235	743,144	1,705,353	2,448,497
2003-2005	128,082	61,519	189,601	810,632	1,520,552	2,331,184
2004-2006	139,645	87,170	226,815	804,475	1,455,588	2,260,063
2005-2007	151,401	87,170	238,571	920,994	1,573,325	2,494,319
2006-2008	166,581	87,170	253,751	837,497	1,693,772	2,531,269
2007-2009	214,534	87,170	301,704	826,544	1,881,985	2,708,529
2008-2010	237,015	87,170	324,185	673,957	1,948,035	2,621,991
2009-2011	239,514	87,170	326,684	817,766	2,044,273	2,862,039
2010-2012	213,143	87,170	300,313	764,691	2,519,940	3,284,632
2011-2013	209,093	87,170	296,263	933,621	3,003,180	3,936,801
2012-2014	232,034	87,170	319,204	900,602	3,249,362	4,149,964
2013-2015	244,675	87,170	331,845	1,044,761	2,859,480	3,904,241
2014-2016	249,190	87,170	336,360	1,063,699	2,453,426	3,517,125
2015-2017	236,623	87,170	323,793	1,046,500	2,338,088	3,384,589
2016-2018	259,315	87,170	346,485	1,195,946	2,447,675	3,643,621
2017-2019	236,639	87,170	323,809	1,147,760	2,661,295	3,809,055
POPULATION OBJECTIVES:			110,000			1,000,000 - 1,500,000
REGULATORY THRESHOLDS:						1,000,000 - 1,500,000

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[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.The tri-annual survey in Mexico has not been conducted since 2006 due to safety concerns.

[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.

[5] In 2007, TX was unable to complete their traditional coastal Dec. survey, light geese were counted in January.

JANUARY 2019 MID-WINTER WATERFOWL SURVEY - CENTRAL FLYWAY [1]

SPECIES	ND	MT	SD	WY	CO	NE	KS	OK	NM	TX	TOTAL
Mallard	5,313	18,080	53,441	35,337	78,794	227,468	267,468	64,293	16,758	308,038	1,074,990
Black Duck	0	0	0	0	0	0	21	0	0	0	21
Mottled Duck	0	0	0	0	0	0	0	0	0	16,403	16,403
Gadwall	0	0	20	45	606	3	1,955	3,100	1,045	662,015	668,789
Wigeon	0	0	25	121	1,197	0	3,126	541	16,191	280,673	301,874
G-W Teal	0	0	1	35	403	42	2,895	4,832	11,945	237,211	257,364
BW/CIN Teal	0	0	0	0	0	0	1	25	0	61,418	61,444
Shoveler	0	0	0	0	2,865	0	1,023	3,021	455	116,702	124,066
Pintail	0	0	0	21	378	4	4,727	2,910	9,770	303,998	321,808
Wood Duck	0	0	8	0	143	40	20	126	0	32,664	33,001
Whistling Ducks	0	0	0	0	0	0	0	0	0	58,064	58,064
Total Dabblers	5,313	18,080	53,495	35,559	84,386	227,557	281,236	78,848	56,164	2,077,186	2,917,824
Redhead	0	0	14	2	246	17	2,852	95	270	842,585	846,081
Canvasback	0	0	0	0	55	0	1,017	128	250	119,392	120,842
Scaup	0	0	1	0	274	0	1,527	185	10	469,956	471,953
Ringnecked duck	0	0	44	20	149	0	6,374	951	335	196,240	204,113
Goldeneyes	431	2,229	54	2,495	1,143	256	40,696	389	60	70	47,823
Bufflehead	0	0	28	0	275	2	1,303	257	156	9,940	11,961
Ruddy Duck	0	0	0	2	33	0	803	253	0	2,056	3,147
Total Divers	431	2,229	141	2,519	2,175	275	54,572	2,258	1,081	1,640,239	1,705,920
Scoters	0	0	0	0	0	0	7	0	0	0	7
Long-tailed Ducks	0	0	0	0	0	0	0	0	0	0	0
Mergansers	448	310	5,383	813	3,859	2,750	19,282	4,905	7,924	6,182	51,856
Unident. Ducks	0	0	0	0	4,875	37	12,158	346	0	144,622	162,038
Total Ducks	**6,192**	**20,619**	**59,019**	**38,891**	**95,295**	**230,619**	**367,255**	**86,357**	**65,169**	**3,868,229**	**4,837,645**
Brant	0	0	0	0	0	0	0	0	0	0	0
Snow/Blue Goose	0	5	50	15	76,793	11,206	502,968	116,010	9,500	492,380	1,208,927
Ross's Goose	0	0	0	0	0	0	0	366	0	0	366
Whitefront	0	0	0	0	25	863	3,504	3,945	0	166,948	175,285
Canada Goose	99,119	100,975	117,806	80,106	175,865	317,693	117,834	146,651	17,576	375,643	1,549,268
Total Geese	**99,119**	**100,980**	**117,856**	**80,121**	**252,683**	**329,762**	**624,306**	**266,972**	**27,076**	**1,034,971**	**2,933,846**
Tundra Swan	0	0	0	0	1	0	0	0	0	18	19
Trumpeter Swan	0	0	598	70	7	665	62	0	0	0	1,402
Mute Swan	0	0	0	0	2	0	0	0	0	0	2
Unident. Swans	0	0	1	0	12	0	4	0	0	0	17
Total Swans	**0**	**0**	**599**	**70**	**22**	**665**	**66**	**0**	**0**	**18**	**1,440**
Coot	0	0	8	0	1,050	2	682	1,510	4,832	122,127	130,211
Grand Total	**105,311**	**121,599**	**177,482**	**119,082**	**349,050**	**561,048**	**992,309**	**354,839**	**97,077**	**5,025,345**	**7,903,142**

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*In TX, SGP and TGP counts (CFAN beginning in 2014) based on cruise surveys. 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).

CENTRAL FLYWAY MID-WINTER WATERFOWL SURVEY RESULTS, 2010-19

SPECIES	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2010-2018 AVG
Mallard	1,469,007	1,572,128	2,118,885	2,126,645	1,594,569	1,639,358	1,950,864	2,006,913	1,695,823	1,074,990	1,797,132
Black Duck	0	0	0	0	1	0	1	0	0	21	0
Mottled Duck	23,314	39,458	30,624	27,771	32,736	17,028	15,980	21,346	14,653	16,403	24,768
Gadwall	787,075	762,915	922,231	850,676	749,838	855,423	749,857	738,381	864,317	668,789	808,968
Wigeon	423,296	223,430	191,135	247,730	152,654	235,511	377,884	286,856	284,905	301,874	269,267
G-W Teal	360,769	311,314	397,317	327,047	651,258	313,029	791,179	764,741	354,028	257,364	474,520
BW/CIN Teal	25,924	75,720	14,105	2,129	6,082	28,009	14,241	23,921	60,445	61,444	27,842
Shoveler	195,455	138,215	188,706	164,150	314,432	169,464	124,934	220,882	105,641	124,066	180,209
Pintail	421,008	450,689	350,685	208,541	616,586	542,039	601,578	1,152,520	220,155	321,808	507,089
Wood Duck	12,109	57,522	18,259	52,802	25,296	57,513	58,067	115,947	65,803	33,001	51,480
Whistling Duck	280	0	0	15,635	0	0	14,065	1,823	37,790	58,064	7,733
Total Dabblers	3,718,237	3,631,391	4,231,947	4,023,126	4,143,452	3,857,374	4,698,650	5,333,330	3,703,560	2,917,824	4,149,007
Redhead	36,970	209,121	318,626	185,327	184,002	431,203	333,393	851,403	87,970	846,081	293,113
Canvasback	36,486	33,436	29,269	22,818	52,610	26,855	29,376	86,278	30,619	120,842	38,639
Scaup	419,805	216,183	270,854	129,870	360,362	142,532	89,748	242,400	152,124	471,953	224,875
Ringneck	279,816	278,133	169,012	303,730	259,912	356,955	262,663	281,842	269,206	204,113	273,474
Goldeneye	35,685	24,668	39,644	38,426	22,217	33,740	37,702	36,972	23,770	47,823	32,536
Bufflehead	34,510	13,618	34,112	18,568	21,737	34,121	11,881	22,727	14,318	11,961	22,844
Ruddy Duck	2,600	3,189	1,644	5,463	6,508	6,050	3,035	3,026	4,855	3,147	4,041
Total Divers	845,872	778,348	863,161	704,202	907,348	1,031,456	767,798	1,524,648	582,862	1,705,920	889,522
Scoter	0	0	0	0	0	0	0	0	0	7	0
Long-tailed Duck	2	0	1	0	0	7	0	0	1	0	1
Mergansers	54,125	57,947	37,103	62,342	40,747	81,753	55,468	55,960	69,660	51,856	57,234
Unident. Ducks	207,024	351,528	154,483	346,609	415,259	460,269	350,428	332,019	213,543	162,038	314,574
TOTAL DUCKS	4,825,260	4,819,214	5,286,695	5,136,279	5,506,806	5,430,859	5,872,344	7,245,957	4,569,626	4,837,645	5,410,338
Brant	0	0	0	0	0	0	0	0	0	0	0
Snow/Blue Goose	840,342	1,223,373	780,546	1,307,510	1,206,768	1,283,034	1,403,936	1,122,808	1,797,250	1,208,927	1,218,396
Ross's Goose	16,536	31,493	41,212	44,008	17,866	9,121	17,943	12,528	11,319	366	22,447
White-fronted Goose	161,119	128,171	78,812	48,187	27,006	69,266	107,828	101,384	110,572	175,285	92,483
Canada goose	1,445,762	1,540,347	1,708,955	1,693,482	1,603,125	1,813,801	1,550,994	1,719,578	2,434,766	1,549,268	1,723,423
TOTAL GEESE	2,463,759	2,923,384	2,609,525	3,093,187	2,854,765	3,175,222	3,080,701	2,956,298	4,353,907	2,933,846	3,056,750
Tundra Swan	22	14	32	59	17	24	0	10	15	19	21
Trumpeter Swan	592	790	808	785	491	782	703	931	1,318	1,402	800
Mute Swan	0	0	8	1	0	3	0	0	0	2	1
Unident. Swans	63	61	14	28	73	91	26	63	58	17	53
TOTAL SWANS	677	865	862	873	581	900	729	1,004	1,391	1,440	876
Coot	460,300	592,219	75,811	225,364	189,026	222,137	349,085	442,361	224,393	130,211	308,966
GRAND TOTAL	7,749,996	8,335,682	7,972,893	8,455,703	8,551,178	8,829,118	9,302,859	10,645,620	9,149,317	7,903,142	8,776,930

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CENTRAL FLYWAY MID-WINTER WATERFOWL SURVEY RESULTS, 2000-09

SPECIES	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2000-2009 AVG
Mallard	1,798,494	1,866,170	1,877,544	1,825,639	1,183,436	1,425,943	1,696,808	1,994,971	1,852,566	1,510,434	1,703,201
Black Duck	11	0	0	10	4	13	0	0	1	0	4
Mottled Duck	30,639	15,035	25,076	24,797	23,734	31,389	18,396	38,218	27,470	25,324	26,008
Gadwall	762,360	561,275	532,403	588,194	971,407	604,554	856,352	675,176	1,033,802	695,751	728,127
Wigeon	421,453	180,825	286,363	450,146	326,325	354,509	230,293	169,821	278,361	263,168	296,126
G-W Teal	576,173	210,864	451,114	187,545	436,981	241,663	511,213	486,847	1,261,112	689,119	505,263
BW/CIN Teal	2,519	30,862	24,093	149,309	215,398	287,307	55,616	44,627	60,923	97,200	96,785
Shoveler	161,851	152,701	122,979	173,302	169,739	102,244	130,219	101,936	116,278	101,470	133,272
Pintail	374,407	327,797	492,311	713,071	664,003	572,008	857,151	681,902	936,028	572,499	619,118
Wood Duck	13,397	39,505	10,370	7,454	14,274	6,798	12,320	25,336	9,101	4,650	14,321
Whistling Duck	0	0	0	11,719	15,269	27,571	0	52,607	87,007	0	19,417
Total Dabblers	4,141,304	3,385,034	3,822,253	4,131,186	4,020,570	3,653,999	4,368,368	4,271,441	5,662,649	3,959,615	4,141,642
Redhead	115,096	256,224	517,788	359,795	127,814	364,646	459,592	38,462	224,140	162,867	262,642
Canvasback	15,438	22,286	62,756	16,142	6,798	6,557	17,324	3,769	16,974	35,087	20,313
Scaup	144,800	89,889	141,456	327,027	268,811	97,961	90,890	95,890	92,456	791,864	214,104
Ringneck	127,735	98,015	117,639	127,152	156,086	204,323	81,773	82,410	227,548	158,142	138,082
Goldeneye	27,481	36,340	27,775	21,966	33,752	20,432	18,088	34,691	25,621	38,945	28,509
Bufflehead	37,690	44,682	18,750	9,244	8,529	34,938	25,234	6,655	11,352	20,085	21,716
Ruddy Duck	54,570	3,201	2,459	3,258	2,938	2,313	254	76	3,136	34,578	10,678
Total Divers	522,810	550,637	888,623	864,584	604,728	731,170	693,155	261,953	601,227	1,241,568	696,046
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	37,281	46,579	68,364	81,921
Unident. Ducks	232,465	85,110	146,930	94,391	100,430	193,824	63,760	25,332	259,873	177,613	137,973
TOTAL DUCKS	5,087,374	4,090,110	4,974,802	5,186,617	4,793,563	4,617,580	5,212,275	4,596,007	6,570,328	5,447,160	5,057,582
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	1,240,242	790,139	1,036,810	958,629
Ross' Goose	8,489	9,685	4,187	11,941	19,813	10,997	8,617	6,957	25,802	23,286	12,977
White-fronted Goose	145,219	141,189	260,849	213,343	79,389	147,783	304,093	243,081	82,936	103,172	172,105
Canada goose	1,400,416	1,286,397	1,625,355	1,606,017	1,608,775	1,271,517	1,448,691	1,597,631	1,584,979	1,487,199	1,491,698
TOTAL GEESE	2,740,212	2,285,267	2,661,532	2,752,241	2,550,537	2,440,191	2,701,879	3,087,911	2,483,856	2,650,467	2,635,409
Tundra Swan	7	15	13	7	22	12	26	9	10	5	13
Trumpeter Swan	395	303	227	395	271	606	614	780	651	696	494
Mute Swan	2	0	0	6	16	2	0	0	0	0	3
Unident. Swans	5	17	25	16	8	14	10	2	14	16	13
TOTAL SWANS	409	335	265	424	317	634	650	791	675	717	522
Coot	218,707	265,066	549,363	346,894	561,937	245,746	290,874	437,764	732,687	414,100	406,314
GRAND TOTAL	8,046,702	6,640,778	8,185,962	8,286,176	7,906,354	7,304,151	8,205,678	8,122,473	9,787,546	8,512,444	8,099,826

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

SPECIES	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	1990-1999 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
Scoter	2	0	0	0	0	0	0	0	0	0	0
Long-tailed Duck	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								5,772	0	6,576	4,116
White-fronted Goose	90,830	155,211	85,881	158,625	188,878	194,845	154,519	215,254	356,531	200,391	180,097
Canada 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	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

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CENTRAL FLYWAY MID-WINTER WATERFOWL SURVEY RESULTS IN 2019 RELATED TO PREVIOUS SURVEYS

SPECIES	2019	2018	% Change, 2019 from 2018	2010-2018 Avg	% Change, 2019 from 2010-18 Avg	1948-2018 Avg	% Change, 2019 from 48-2018 Avg	% Change, 2019 from 2000-2009 Avg	% Change, 2019 from 90-99 Avg	% Change, 2019 from 80-89 Avg	% Change, 2019 from 70-79 Avg	% Change, 2019 from 60-69 Avg	% Change, 2019 from 48-59 Avg
Mallard	1,074,990	1,695,823	-37%	1,797,132	-40%	1,742,026	-38%	-37%	-14%	-16%	-51%	-43%	-48%
Black Duck	21	0		0		12	68%	438%	1515%	708%	-35%	-36%	61%
Mottled Duck	16,403	14,653	12%	24,768	-34%	23,084	-29%	-37%	-49%	-53%	-63%	679%	1005%
Gadwall	668,789	864,317	-23%	808,968	-17%	296,651	125%	-8%	192%	360%	242%	1314%	2372%
Wigeon	301,874	284,905	6%	269,267	12%	171,889	76%	2%	229%	247%	62%	91%	128%
G-W Teal	257,364	354,028	-27%	474,520	-46%	377,253	-32%	-49%	-52%	-40%	-53%	81%	235%
BW/CIN Teal	61,444	60,445	2%	27,842	121%	22,731	170%	-37%	993%	931%	210%	792%	5874%
Shoveler	124,066	105,641	17%	180,209	-31%	80,083	55%	-7%	55%	101%	53%	499%	402%
Pintail	321,808	220,155	46%	507,089	-37%	710,443	-55%	-48%	-41%	-45%	-72%	-32%	-69%
Wood Duck	33,001	65,803	-50%	51,480	-36%	11,449	188%	130%	439%	944%		3463%	3016%
Whistling Duck	58,064	37,790	54%	7,733	651%	6,099	852%	199%	2013%	7623%			
Total Dabblers	2,917,824	3,703,560	-21%	4,149,007	-30%	3,438,542	-15%	-30%	5%	10%	-33%	7%	-13%
Redhead	846,081	87,970	862%	293,113	189%	328,713	157%	222%	196%	267%	186%	174%	48%
Canvasback	120,842	30,619	295%	38,639	213%	21,544	461%	495%	445%	273%	554%	1316%	789%
Scaup	471,953	152,124	210%	224,875	110%	138,405	241%	120%	667%	548%	511%	663%	93%
Ringneck	204,113	269,206	-24%	273,474	-25%	67,597	202%	48%	230%	922%	3375%	4564%	6607%
Goldeneye	47,823	23,770	101%	32,536	47%	18,884	153%	68%	167%	158%	389%	328%	204%
Bufflehead	11,961	14,318	-16%	22,844	-48%	9,996	20%	-45%	1%	100%	88%	254%	1147%
Ruddy Duck	3,147	4,855	-35%	4,041	-22%	7,165	-56%	-71%	-52%	-72%	-37%	-71%	18%
Total Divers	1,705,920	582,862	193%	889,522	92%	592,305	188%	145%	265%	336%	308%	317%	100%
Scoter	7	0		0		0							
Long-tailed Duck	0	1		1		1							
Mergansers	51,856	69,660	-26%	57,234	-9%	80,396	-35%	-37%	-49%	-57%	-35%	-33%	8%
Unident. Ducks	162,038	213,543	-24%	314,574	-48%	113,329	43%	17%	-30%	464%	337%	897%	180%
TOTAL DUCKS	4,837,645	4,569,626	6%	5,410,338	-11%	4,224,572	15%	-4%		52%	-2%	50%	13%
Brant	0	0		0		0							
Snow/Blue Goose	1,208,927	1,797,250	-33%	1,218,396	-1%	768,635	57%	26%	12%	33%	85%	301%	214%
Ross's Goose	366	11,319	-97%	22,447	-98%	10,127		-97%	-91%				
White-fronted Goose	175,285	110,572	59%	92,483	90%	92,307	90%	2%	-3%	39%	259%	986%	630%
Canada goose	1,549,268	2,434,766	-36%	1,723,423	-10%	864,968	79%	4%	14%	74%	242%	606%	978%
TOTAL GEESE	2,933,846	4,353,907	-33%	3,056,750	-4%	1,730,760	70%	11%	12%	52%	154%	446%	431%
Tundra Swan	19	15	27%	21	-11%	14	38%	51%	175%	850%	111%	-8%	-16%
Trumpeter Swan	1,402	1,318	6%	800	75%	287	388%	184%	601%	704%	1210%	778%	804%
Mute Swan	2	0		1				-23%	300%				
Unident. Swans	17	58	-71%	53	-68%			34%	221%				
TOTAL SWANS	1,440	1,391	4%	876	64%	311	363%	176%	577%	717%	1141%	692%	710%
Coot	130,211	224,393	-42%	308,966	-58%	254,398	-49%	-68%	-48%	-55%	-39%	-46%	5%
GRAND TOTAL	7,903,142	9,149,317	-14%	8,776,930	-10%	6,210,041	27%	-2%	23%	47%	26%	97%	59%

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BREEDING POPULATION ESTIMATES FOR 10 SPECIES OF DUCKS (Thousands) FROM THE TRADITIONAL SURVEY AREA (strata 1-18, 20-50, 75-77) AND POND ESTIMATES FROM NORTH CENTRAL U.S. AND PRAIRIE CANADA

YEAR	MAL	GAD	WIG	GWT	BWT	SHO	PIN	RED	CAN	SCP	TOTAL	U.S. PONDS	CANADA PONDS	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	4,998	1,781	10,373	757	699	5,994	40,498			
1957	9,297	667	2,920	1,103	4,300	1,476	6,607	509	626	5,767	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	28,156		1,977	
1962	5,536	905	1,959	723	3,011	1,269	3,624	508	360	5,286	23,181		2,369	
1963	6,749	1,055	1,831	1,242	3,724	1,398	3,846	413	506	5,438	26,202		2,482	
1964	6,064	873	2,590	1,561	4,021	1,718	3,291	528	644	5,132	26,422		3,371	
1965	5,132	1,260	2,301	1,282	3,595	1,424	3,592	599	522	4,640	24,347		4,379	
1966	6,732	1,680	2,318	1,617	3,733	2,147	4,812	713	663	4,439	28,854		4,555	
1967	7,510	1,385	2,326	1,594	4,492	2,315	5,278	736	503	4,928	31,067		4,691	
1968	7,089	1,949	2,299	1,431	3,463	1,685	3,489	499	564	4,413	26,881		1,986	
1969	7,532	1,573	2,941	1,491	4,139	2,157	5,904	633	504	5,140	32,014		3,548	
1970	9,986	1,608	3,470	2,183	4,862	2,230	6,392	622	580	5,663	37,596		4,875	
1971	9,416	1,606	3,273	1,889	4,610	2,011	5,847	534	451	5,134	34,771		4,053	
1972	9,266	1,623	3,200	1,948	4,279	2,467	6,979	551	426	7,997	38,736		4,009	
1973	8,079	1,246	2,878	1,949	3,333	1,619	4,356	501	621	6,257	30,839		2,950	
1974	6,880	1,592	2,672	1,865	4,976	2,011	6,598	626	513	5,781	33,514	1,841	6,390	8,231
1975	7,727	1,644	2,778	1,665	5,885	1,981	5,900	832	595	6,460	35,467	1,911	5,320	7,231
1976	7,934	1,245	2,505	1,548	4,745	1,748	5,476	666	614	5,819	32,300	1,392	4,599	5,990
1977	7,397	1,299	2,575	1,286	4,463	1,452	3,226	634	664	6,260	29,256	771	2,278	3,049
1978	7,425	1,558	3,282	2,174	4,499	1,975	5,108	725	373	5,984	33,103	1,590	3,622	5,213
1979	7,883	1,758	3,107	2,072	4,876	2,407	5,376	698	582	7,658	36,417	1,522	4,859	6,381
1980	7,707	1,393	3,596	2,050	4,895	1,908	4,508	728	735	6,382	33,902	761	2,141	2,902
1981	6,410	1,395	2,946	1,911	3,721	2,334	3,480	595	621	5,991	29,404	683	1,443	2,126
1982	6,409	1,634	2,459	1,536	3,658	2,148	3,709	617	513	5,532	28,215	1,458	3,185	4,643
1983	6,456	1,519	2,636	1,875	3,367	1,876	3,511	712	527	7,174	29,653	1,259	3,906	5,165
1984	5,415	1,515	3,002	1,408	3,979	1,618	2,965	671	530	7,024	28,127	1,766	2,473	4,239
1985	4,961	1,303	2,051	1,475	3,502	1,702	2,516	578	376	5,098	23,562	1,327	4,283	5,610
1986	6,124	1,547	1,737	1,675	4,479	2,128	2,740	560	438	5,235	26,663	1,735	4,025	5,760
1987	5,790	1,306	2,013	2,006	3,529	1,950	2,628	502	450	4,863	25,037	1,348	2,524	3,872
1988	6,369	1,350	2,211	2,061	4,011	1,681	2,006	442	435	4,671	25,237	791	2,110	2,901
1989	5,645	1,415	1,973	1,842	3,125	1,538	2,112	511	477	4,342	22,980	1,290	1,693	2,983
1990	5,452	1,672	1,860	1,790	2,776	1,759	2,257	481	539	4,293	22,879	691	2,817	3,509
1991	5,445	1,584	2,254	1,558	3,764	1,716	1,803	446	491	5,255	24,316	706	2,494	3,200
1992	5,976	2,033	2,208	1,773	4,333	1,954	2,098	596	482	4,639	26,092	825	2,784	3,609
1993	5,708	1,755	2,053	1,695	3,193	2,047	2,053	485	472	4,080	23,541	1,351	2,261	3,612
1994	6,980	2,318	2,382	2,108	4,616	2,912	2,972	654	526	4,529	29,997	2,216	3,769	5,985
1995	8,269	2,836	2,615	2,301	5,140	2,855	2,758	889	771	4,446	32,880	2,443	3,893	6,335
1996	7,941	2,984	2,273	2,459	6,416	3,449	2,736	834	849	4,217	34,158	2,480	5,003	7,482
1997	9,940	3,897	3,118	2,507	6,124	4,120	3,558	918	689	4,112	38,983	2,397	5,061	7,458
1998	9,640	3,742	2,858	2,087	6,399	3,183	2,521	1,005	686	3,472	35,593	2,065	2,522	4,587
1999	10,806	3,236	2,920	2,631	7,150	3,890	3,058	973	716	4,412	39,792	2,842	3,862	6,704
2000	9,470	3,158	2,733	3,194	7,431	3,521	2,908	926	707	4,026	38,074	1,525	2,423	3,947
2001	7,904	2,679	2,494	2,509	5,757	3,314	3,296	712	580	3,694	32,939	1,893	2,747	4,640
2002	7,504	2,235	2,334	2,334	4,207	2,318	1,790	565	487	3,524	27,298	1,281	1,439	2,720
2003	7,950	2,549	2,551	2,679	5,518	3,620	2,558	637	558	3,734	32,353	1,668	3,522	5,190
2004	7,425	2,590	1,981	2,461	4,073	2,810	2,185	605	617	3,807	28,554	1,407	2,513	3,920
2005	6,755	2,179	2,225	2,157	4,586	3,592	2,561	592	521	3,387	28,555	1,461	3,921	5,381
2006	7,277	2,825	2,171	2,587	5,860	3,680	3,386	916	691	3,247	32,639	1,644	4,450	6,094
2007	8,307	3,356	2,807	2,890	6,708	4,553	3,335	1,009	865	3,452	37,282	1,963	5,040	7,003
2008	7,724	2,728	2,487	2,980	6,640	3,508	2,613	1,056	489	3,738	33,962	1,377	3,055	4,431
2009	8,512	3,054	2,469	3,444	7,384	4,376	3,225	1,044	662	4,172	38,342	2,866	3,568	6,434
2010	8,430	2,977	2,425	3,476	6,329	4,057	3,509	1,064	585	4,244	37,096	2,936	3,729	6,665
2011	9,183	3,257	2,084	2,900	8,949	4,641	4,429	1,356	692	4,319	41,810	3,240	4,893	8,132
2012	10,602	3,586	2,145	3,471	9,242	5,018	3,473	1,270	760	5,239	44,806	1,659	3,885	5,544
2013	10,372	3,351	2,644	3,053	7,731	4,751	3,335	1,202	787	4,166	41,392	2,341	4,551	6,892
2014	10,900	3,811	3,117	3,440	8,542	5,279	3,220	1,279	685	4,611	44,884	2,551	4,630	7,181
2015	11,643	3,834	3,037	4,081	8,547	4,391	3,043	1,196	757	4,395	44,924	2,157	4,151	6,308
2016	11,793	3,712	3,411	4,275	6,689	3,967	2,618	1,289	736	4,992	43,482	1,518	3,494	5,012
2017	10,488	4,180	2,777	3,605	7,889	4,353	2,889	1,115	733	4,372	42,401	1,766	4,330	6,096
2018	9,255	2,886	2,820	3,043	6,450	4,208	2,365	999	686	3,989	36,701	1,567	3,660	5,227
2019	9,423	3,259	2,832	3,178	5,428	3,649	2,269	732	652	3,591	35,013	2,135	2,856	4,991
AVERAGES:														
1955-69	7,722	1,020	2,682	1,502	4,219	1,679	5,496	547	564	5,296	30,727		3,262	
1970-79	8,199	1,518	2,974	1,858	4,653	1,990	5,526	639	542	6,301	34,200	1,504	4,296	6,016
1980-89	6,129	1,438	2,462	1,784	3,827	1,888	3,018	592	510	5,631	27,278	1,242	2,778	4,020
1990-99	7,616	2,606	2,454	2,091	4,991	2,789	2,581	728	622	4,346	30,823	1,802	3,447	5,248
2000-09	7,883	2,735	2,425	2,723	5,816	3,529	2,786	806	618	3,678	33,000	1,708	3,268	4,976
2010-2019	10,209	3,485	2,729	3,452	7,580	4,431	3,115	1,150	707	4,392	41,251	2,187	4,018	6,205
1955-2019	7,941	2,048	2,626	2,179	5,107	2,638	3,888	729	592	4,968	32,714	1,705	3,515	5,230
Current Year Percent Change From:														
NAWMP [1]	22%	70%	9%	54%	10%	45%	-43%	4%	12%	-29%	9%	26%	-18%	-4%
Long Term [2]	19%	61%	8%	47%	6%	39%	-42%	0%	10%	-28%	7%	26%	-19%	-5%

[1] NAWMP goal is BPOP average between 1955-2014.

[2] Long-term average is 1955-2018.

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TUNDRA SWAN
POPULATION STATUS & HARVESTS

EASTERN POPULATION OF TUNDRA SWANS OBSERVED DURING THE MIDWINTER WATERFOWL SURVEY

	ATLANTIC FLYWAY															MISSISSIPPI FLYWAY			3-YR
YR	MA	VT	NH	RI	NY	PA	WV	NJ	DE	MD	VA	NC	SC	GA	FL	ONTARIO	U.S.	TOTAL	AVG
1980	0	0	0	0	37	217	0	527	1,566	29,994	8,350	19,100	66	0	0	0	200	60,057	
1981	0	0	0	0	3	1,260	0	725	959	29,996	13,122	46,600	100	0	0	0	200	92,965	
1982	0	0	0	0	0	242	0	900	0	19,600	9,800	42,200	165	0	0	0	275	73,182	75,401
1983	0	0	0	0	0	800	0	1,800	3,000	23,000	5,600	52,200	64	0	0	500	550	87,514	84,554
1984	209	0	0	0	0	100	0	600	0	29,002	7,000	44,100	199	0	25	100	25	81,360	80,685
1985	0	0	0	0	0	340	0	1,230	100	23,500	6,965	61,500	269	5	0	2,500	525	96,934	88,603
1986	0	0	0	0	0	756	0	800	400	30,020	6,378	52,300	86	1	25	25	150	90,941	89,745
1987	0	0	0	0	0	5,105	1	4,000	1,400	25,700	4,685	53,543	70	0	0	1,000	250	95,754	94,543
1988	0	0	0	0	13	5	0	2,800	0	22,100	5,291	46,805	96	0	0	1,200	375	78,685	88,460
1989	0	0	0	0	0	502	0	2,300	175	28,542	5,927	53,656	45	3	0	25	125	91,300	88,580
1990	0	0	0	0	0	340	0	3,600	90	20,078	6,092	60,238	155	0	0	9	17	90,619	86,868
1991	0	0	0	0	0	1,856	0	2,800	121	23,104	4,491	64,999	53	0	0	754	20	98,198	93,372
1992	0	0	0	0	35	3,058	0	724	144	22,976	7,207	75,607	37	0	0	2,929	327	113,044	100,620
1993	0	0	0	0	83	4,868	0	305	72	18,248	7,046	45,930	41	0	0	739	858	78,190	96,477
1994	0	0	0	0	8	686	1	1,044	126	18,780	9,132	54,664	86	0	0	184	61	84,772	92,002
1995	0	0	0	0	206	2,012	1	770	64	15,578	7,605	53,870	116	0	0	2,473	2,447	85,142	82,701
1996	0	0	0	0	0	115	4	512	197	16,344	10,945	50,716	188	0	0	113	393	79,527	83,147
1997	0	0	0	0	0	3,515	0	667	594	12,238	11,211	57,730	165	0	0	6,027	233	92,380	85,683
1998	0	0	0	0	139	1,949	0	495	1,171	21,563	7,186	63,761	280	0	0	2,679	1,335	100,558	90,822
1999	0	0	0	0	0	553	0	935	76	15,557	8,814	83,106	0	0	0	296	1,618	110,955	101,298
2000	0	0	0	0	0	1,106	0	130	1,497	15,609	7,596	77,044	100	0	0	8,897	3,364	115,343	108,952
2001	0	0	0	0	99	363	24	197	72	20,798	9,428	66,966	220	0	0	231	46	98,444	108,247
2002	0	4	4	4	116	1,098	3	473	920	16,610	5,994	78,394	222	0	0	7,169	3,661	114,672	109,486
2003	0	0	0	0	205	548	0	105	802	15,112	7,725	83,351	339	0	0	1,379	2,160	111,726	108,281
2004	0	0	0	0	8	1,261	0	495	667	17,891	7,173	67,188	292	0	0	13,737	2,094	110,806	112,401
2005	0	0	0	0	132	786	0	205	387	13,248	6,488	47,364	125	0	0	2,668	1,054	72,457	98,330
2006	0	0	0	0	399	2,464	2	165	147	8,239	4,576	54,064	398	0	0	9,746	1,069	81,269	88,177
2007	0	0	0	0	0	363	0	290	520	8,656	4,979	72,653	379	0	0	16,057	10,521	114,418	89,381
2008	0	0	0	0	0	1,178	4	332	651	10,580	6,738	69,023	NS	0	0	5,917	1,826	96,249	97,312
2009	0	0	0	0	0	783	0	165	223	14,183	6,584	76,788	578	0	NS	324	552	100,180	103,616
2010	0	0	0	2	0	89	2	425	215	14,004	6,584	70,273	319	0	NS	4,081	1,302	97,296	97,908
2011	0	0	0	0	0	316	0	155	258	14,355	8,767	69,501	404	0	NS	1,445	2,427	97,628	98,368
2012	0	0	0	0	0	691	0	425	178	16,599	8,884	59,716	300	0	NS	13,512	11,436	111,741	102,222
2013	0	0	0	0	0	1,711	3	183	1,392	17,330	8,987	68,578	312	1	NS	7,527	1,035	107,059	105,476
2014	0	NS	0	0	0	975	9	480	264	16,145	9,399	76,276	305	0	NS	287	848	104,988	107,929
2015	0	NS	0	0	461	506	0	540	273	17,837	9,194	78,663	462	0	NS	6,196	2,964	117,096	109,714
2016	0	NS	NS	0	0	810	NS	82	341	11,220	10,368	63,466	332	0	NS	13,992	12,982	113,593	111,892
2017	NS	NS	NS	NS	0	223	NS	124	329	14,495	7,475	92,193	586	NS	NS	1,953	1,909	119,287	116,659
2018	NS	NS	NS	NS	0	56	NS	385	2,555	16,364	12,886	78,865	11	NS	NS	61	431	111,614	114,831
2019	NS	NS	NS	NS	0	376	NS	215	5,560	4,047	5,255	56,681	231	NS	NS	19,721	733	92,819	107,907

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

YR	EASTERN POPULATION						WESTERN POPULATION					TOTAL
	MT	ND	SD	NC	VA	TOTAL	UT	NV	MT	AK	TOTAL	
1962							320				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	34					34	1,168	169	218		1,555	1,589
1984	22			313		335	1,194	229	221		1,644	1,979
1985	19			2,523		2,542	673	145	185		1,003	3,545
1986	41			2,302		2,343	947	196	200		1,343	3,686
1987	27			2,684	117	2,828	600	94	280		974	3,802
1988	25	191		2,488	117	2,821	854	78	260	16	1,208	4,029
1989	41	511		2,128	133	2,813	694	81	302	17	1,094	3,907
1990	59	474	339	2,855	128	3,855	874	67	275	16	1,232	5,087
1991	52	704	444	2,940	205	4,345	774	62	79	8	923	5,268
1992	37	833	814	2,609	187	4,480	450	29	221	17	717	5,197
1993	18	712	545	2,773	130	4,178	337	55	290	26	708	4,886
1994	62	690	483	3,750	194	5,179	768	89	326	40	1,223	6,402
1995	56	805	172	2,833	217	4,083	348	72	182	57	659	4,742
1996	61	663	233	2,177	195	3,329	897	119	302	50	1,368	4,697
1997	101	870	403	2,325	217	3,916	704	131	300	58	1,193	5,109
1998	81	618	233	2,363	248	3,543	1,142	185	276	51	1,654	5,197
1999	93	867	223	2,290	128	3,601	858	213	226	91	1,388	4,989
2000	115	633	151	2,515	179	3,593	550	82	217	112	961	4,554
2001	93	561	337	2,322	144	3,457	249	62	289	113	713	4,170
2002	51	688	193	2,363	177	3,472	480	45	167	51	743	4,215
2003	56	235	41	2,355	174	2,861	761	77	119	77	1,034	3,895
2004	105	719	134	1,745	159	2,862	612	82	254	51	999	3,861
2005	93	772	137	2,436	195	3,633	779	100	284	41	1,204	4,837
2006	64	611	163	2,291	163	3,292	814	155	169	71	1,209	4,501
2007	64	652	144	2,313	193	3,366	780	217	306	64	1,367	4,733
2008	53	886	220	2,501	243	3,903	651	136	200	67	1,054	4,957
2009	70	956	297	2,239	165	3,727	788	56	293	80	1,217	4,944
2010	44	745	191	2,535	229	3,744	699	118	209	60	1,086	4,830
2011	65	704	261	2,494	145	3,669	669	145	247	95	1,156	4,825
2012	77	611	157	2,538	172	3,555	873	203	293	55	1,424	4,979
2013	67	769	306	2,509	166	3,817	360	26	240	62	688	4,505
2014	91	795	280	2,410	165	3,741	726	25	167	47	965	4,706
2015	105	635	229	2,611	173	3,753	853	8	264	70	1,195	4,948
2016	86	562	82	2,045	131	2,906	764	133	223	36	1,156	4,062
2017	47	772	232	3,206	252	4,509	783	127	113	28	1,051	5,560
2018	58	857	179	2,812	204	4,110	896	236	121	19	1,272	5,382
AVERAGES:												
1962-69							502	87			513	513
1970-79							1,230	152	182		1,563	1,563
1980-89	30	351		2,073	122	1,959	1,015	156	223	17	1,397	2,769
1990-99	62	724	389	2,692	185	4,051	715	102	248	41	1,107	5,157
2000-2009	76	671	182	2,308	179	3,417	646	101	230	73	1,050	4,467
2010-2017	73	699	217	2,544	179	3,712	716	98	220	57	1,090	4,802
1983-2017	62	675	266	2,435	176	3,374	728	109	234	54	1,117	4,491

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MID-CONTINENT & ROCKY MOUNTAIN POPULATIONS

OF SANDHILL CRANES

POPULATION STATUS & HARVESTS

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

YR	CENTRAL PLATTE RIVER VALLEY, NE				OTHER							ALL AREAS			
	OCULAR CRUISE TRANSECT	OCULAR TRANSECT	PHOTO CORRECTED OCULAR TRANSECT		OTHER NE	KS	TX	CO[1]	OK[1,2]	NM[1]	WY[2]	OCULAR CRUISE TRANSECT	OCULAR TRANSECT	PHOTO CORRECTED OCULAR TRANSECT	
			ANNUAL	3-YR AVG										ANNUAL	3-YR AVG
1974	162,600				9,000	1,900	3,200	0	400		0	177,100			
1975	223,600				2,300	900	tr	500	100		100	227,500			
1976	147,500				2,800	300	800	0	100		1,000	152,500			
1977	173,400				1,100	1,600	30,700	0	400		12,500	220,000			
1978	149,800	188,582			2,200	700	4,900	0	0		2,300	159,900	198,682		
1979		203,574			2,600	1,100	0	500	1,500		0		209,274		
1980	223,400	254,417			5,000	4,100	1,400	0	100		500	234,500	265,517		
1981		248,882			8,300	11,200	21,800	500	0		0		290,682		
1982		347,996	417,263		7,100	2,000	7,800	2,800	0		100		367,796	437,063	
1983		306,316	343,378		4,100	200	7,000	0	200		tr		317,816	354,878	
1984		222,710	261,802	340,814	18,100	900	800	0	1,100		tr		243,610	282,702	358,214
1985		378,127	514,763	373,314	11,500	3,000	1,200						393,827	530,463	389,348
1986		317,025	353,040	376,535	1,000	200	2,100						320,325	356,340	389,835
1987		383,581	416,058	427,954	0	tr	400						383,981	416,458	434,420
1988		386,853	463,457	410,852	0	0	7,700						394,553	471,157	414,652
1989		391,353	391,995	423,837	100	1,000	800						393,253	393,895	427,170
1990		385,950	412,154	422,535	11,000	5,200	10,300						412,450	438,654	434,569
1991		297,831	340,645	381,598	100	800	200						298,931	341,745	391,431
1992		257,709	406,457	386,419	12,200	300	1,100						271,309	420,057	400,152
1993		253,799	378,883	375,328	16,800	37,750	13,500						321,849	446,933	402,912
1994		395,543	477,215	420,852	14,600	0	0	2,400					410,143	491,815	452,935
1995		273,376	326,181	394,093	30,400	0	0	6,700					303,776	356,581	431,776
1996		318,514	519,984	441,127	7,600	0	0	3,900					326,114	527,584	458,660
1997		350,932	534,630	460,265	16,200	100	0						367,232	550,930	478,365
1998		337,203	530,848	528,487	13,600	100	0						350,903	544,548	541,021
1999		219,794	284,858	450,112	3,500	100,000	0						323,294	388,358	494,612
2000		484,585	490,118	435,275	16,900	26,100	500						528,085	533,618	488,841
2001		387,336	413,498	396,158	10,500	42,300	3,500						443,636	469,798	463,925
2002		309,029	315,044	406,220	17,100	15,100	1,200		5,800				342,429	348,444	450,620
2003		300,918	348,023	358,855	24,800	4,100	3,800						333,618	380,723	399,655
2004		365,370	426,534	363,200	17,700	1,200	2,200		100				386,470	447,634	392,267
2005		412,285	491,915	422,157	27,100	2,900	8,700		2,600				450,985	530,615	452,991
2006		178,564	216,810	378,420	70,000	2,100	5,500						256,164	294,410	424,220
2007		307,094	384,118	364,281	20,400	3,600	5,900						336,994	414,018	413,014
2008		474,051	545,884	382,271	24,500	1,100	0						499,651	571,484	426,637
2009		457,436	565,257	498,420	29,900	tr	10,800						498,136	605,957	530,486
2010		455,104	691,534	600,892	17,600	1,300	28,000						502,004	738,434	638,625
2011		347,501	482,797	579,863	18,800	3,500	14,300		4,700				384,101	519,397	621,263
2012		253,783	339,642	504,658	12,900	tr	4,200						270,883	356,742	538,191
2013		745,854	867,061	563,167	16,080	279	9,740		1,800				771,953	893,160	589,766
2014		402,228	617,903	608,202	24,390	5,996	7,534		239				440,148	655,823	635,242
2015		326,053	386,471	623,812	24,545	4,479	37,121		2,195				392,198	452,616	667,200
2016		272,250	405,716	470,030	11,218	261	16,500		175				300,229	433,695	514,045
2017		436,671	568,369	453,519	18,674	180	9,193		16				464,718	596,416	494,242
2018 [2]		516,397	1,005,612	659,899	12,137	1,058	23,906		932		3,475		557,905	1,047,120	692,410
2019 [2]		633,839	945,996	839,992	16,818	2,423	39,460		777		4,140		697,457	1,009,614	884,383

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

[2] The 2018 revision to the Management Plan added OK and WY to counts for determination of the percentage of cranes in the Central Platte River Valley.

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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 3]	MN [5]	TOTAL	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	397	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	506	6,985	826	110	8,769	0	18,005	113	178	201		492	18,497
1994	143	767	56	357	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	933	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	189	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		1,211	21,042
1999	56	1,275	29	321	5,748	879	184	8,469	8	16,969	92	101	NA*		193	17,162
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	936		1,196	16,196
2002	294	1,067	23	342	2,852	490	160	7,837	22	13,087	197	92	844		1,133	14,220
2003 [1]	230	942	49	617	4,564	200	166	11,560	7	18,335	155	162	331		648	18,983
2004 [1]	92	856	54	350	3,967	441	67	8,715	4	14,546	192	167	435		794	15,340
2005 [1]	265	471	65	578	3,721	511	190	12,446	16	18,263	227	175	388		790	19,053
2006 [1]	96	1,341	12	682	3,906	538	202	10,834	20	17,631	201	245	314		760	18,391
2007 [1]	149	516	51	427	4,501	272	163	12,511	20	18,610	268	331	596		1,195	19,805
2008 [1]	32	453	73	483	4,179	493	83	17,169	24	22,989	138	329	1,249		1,716	24,705
2009 [1]	58	447	34	584	4,436	737	96	8,882	8	15,282	305	332	245		882	16,164
2010 [1]	115	293	95	432	4,752	940	91	12,069	25	18,812	253	421	1,204	830	2,708	21,520
2011 [1]	68	908	51	297	3,733	808	64	8,493	20	14,442	151	367	335	765	1,618	16,060
2012 [1]	77	437	30	388	3,019	401	185	10,309	41	14,887	300	341	1,360	407	2,408	17,295
2013 [1]	47	771	77	326	4,137	1,085	109	14,991	41	21,584	138	161	930	378	1,607	23,191
2014 [1]	41	176	114	269	2,924	390	85	11,740	37	15,776	151	123	1,123	247	1,644	17,420
2015 [1]	98	1,005	91	267	2,133	302	--- [6]	8,283	28	12,207	311	132	--- [7]	212	655	12,862
2016 [1]	102	873	111	660	2,507	538	183	18,196	83	23,253	292	404	1,036	287	2,019	25,272
2017 [1]	280	1,440	85	641	3,466	559	165	19,559	263	26,458	435	399	793	196	1,823	28,281
2018 [1]	102	2,479	73	701	3,424	718	119	22,526	33	30,175	587	284	705	129	1,705	31,880
AVERAGES:																
1975-79	94		23	1,097	2,352	308	37	5,995	8	9,913			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	1,014	63	417	6,317	805	195	8,570	5	17,206	124	127	779		952	18,159
2000-09	184	772	42	467	4,238	495	198	10,516	14	16,925	200	204	632		1,037	17,961
2010-2018	103	931	81	442	3,344	638	125	14,018	63	19,733	291	292	936	383	1,799	21,531
1975-2018	117	892	47	517	4,327	596	150	9,280	20	15,576	173	203	810		1,153	16,729
CURRENT YEAR PERCENT CHANGE FROM:																
2017	-64%	72%	-14%	9%	-1%	28%	-28%	15%	-87%	14%	35%	-29%	-11%	-34%	-6%	13%
1975-79	8%		223%	-36%	46%	133%	225%	276%	323%	204%			19%		188%	203%
1980-89	55%		342%	57%	-20%	21%	-10%	267%	459%	158%	651%	48%	-31%		46%	148%
1990-99	-18%	145%	15%	68%	-46%	-11%	-39%	163%	511%	75%	374%	124%	-10%		79%	76%
2000-09	-44%	221%	74%	50%	-19%	45%	-40%	114%	139%	78%	193%	39%	11%		64%	77%
2010-2018	-1%	166%	-10%	58%	2%	13%	-5%	61%	-48%	53%	102%	-3%	-25%	-66%	-5%	48%
1975-2018	-13%	178%	56%	35%	-21%	21%	-21%	143%	69%	94%	240%	40%	-13%		48%	91%

[1] Preliminary

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[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 MC portion from HIP.

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

[5] Minnesota initiated a hunt in the NW portion of state.

[6] All hunters put in stratum "did not hunt" or "no" in state HIP sample frame, so no estimate is available.

[7] HIP sample frame from state was incomplete.

* No estimate is available.

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

	SPORT HUNTING MORTALITY					
	Retrieved				Unretrieved	Total
YR	Central Flyway	Other Survey Total	Canada	Mexico[2]	No. Am.[3]	
1975	9,497	1,094	5,906	1,650	3,615	21,762
1976	7,393	637	1,636	967	2,032	12,665
1977	12,151	471	367	1,299	2,440	16,728
1978	10,146	239	877	1,126	2,308	14,697
1979	10,379	517	3,799	1,470	2,807	18,972
1980	10,152	809	5,589	1,655	3,351	21,556
1981	10,134	403	2,966	1,350	2,724	17,577
1982	7,916	1,222	2,834	1,197	2,451	15,620
1983	12,959	1,557	3,088	1,760	3,501	22,865
1984	11,271	2,009	3,703	1,698	3,372	22,053
1985	12,776	1,245	5,139	1,916	3,520	24,596
1986	12,487	831	6,114	1,943	3,648	25,023
1987	12,770	1,281	5,144	1,920	3,379	24,493
1988	12,772	1,540	6,948	2,126	3,751	27,137
1989	13,639	809	4,975	1,942	3,626	24,992
1990	18,041	1,291	4,835	2,417	4,228	30,811
1991	13,079	1,084	5,318	1,948	3,438	24,867
1992	12,433	833	5,939	1,921	3,198	24,323
1993	18,005	492	2,915	2,141	3,362	26,915
1994	16,201	887	3,830	2,092	3,038	26,048
1995	20,628	1,047	5,827	2,750	4,161	34,413
1996	17,111	1,397	4,312	2,282	3,609	28,711
1997	19,766	1,086	5,900	2,675	4,211	33,638
1998	19,831	1,211	9,526	3,057	4,901	38,526
1999	16,969	193 [4]	8,400	2,556	3,947	32,065
2000	15,504	1,251	9,450	2,621	4,093	32,919
2001	15,000	1,196	8,786	2,498	4,013	31,493
2002	13,087	1,133	7,947	2,217	3,446	27,830
2003 [1]	18,335	648	9,585	2,857	4,246	35,671
2004 [1]	14,546	794	11,037	2,638	4,165	33,179
2005 [1]	18,263	790	9,876	2,893	4,512	36,334
2006 [1]	17,631	760	10,417	2,881	4,864	36,552
2007 [1]	18,610	1,195	11,786	3,159	4,904	39,654
2008 [1]	22,989	1,716	9,439	3,414	4,432	41,990
2009 [1]	15,282	882	4,165	2,033	3,100	25,462
2010 [1]	18,812	2,708	7,331	2,885	4,400	36,136
2011 [1]	14,442	1,618	10,431	2,649	4,006	33,146
2012 [1]	14,887	2,408	5,041	2,234	3,397	27,966
2013 [1]	21,584	1,607	9,883	3,307	4,188	40,570
2014 [1]	15,776	1,644	12,812	3,023	4,521	37,776
2015[1,5]	12,207	655	10,604	2,347	3,652	29,465
2016 [1]	23,253	2,019	11,502	3,677	4,460	44,911
2017 [1]	26,458	1,823	13,442	4,172	5,533	51,429
2018 [1]	30,175	1,705	13,006	4,489	5,303	54,678
AVERAGES:						
1975-79	9,913	592	2,517	1,302	2,641	16,965
1980-89	11,688	1,171	4,650	1,751	3,332	22,591
1990-99	17,206	1,036	5,680	2,384	3,809	30,032
2000-09	16,925	1,037	9,249	2,721	4,177	34,108
2010-2018	19,733	1,799	10,450	3,198	4,384	39,564
1975-2018	15,576	1,175	6,873	2,360	3,769	29,732
CURRENT YEAR PERCENT CHANGE FROM:						
2017	14%	-6%	-3%	8%	-4%	6%
1975-79	204%	188%	417%	245%	101%	222%
1980-89	158%	46%	180%	156%	59%	142%
1990-99	75%	65%	129%	88%	39%	82%
2000-09	78%	64%	41%	65%	27%	60%
2010-2018	53%	-5%	24%	40%	21%	38%
1975-2018	94%	45%	89%	90%	41%	84%

[1] Preliminary

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

[3] Unretrieved 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.

[4] There is no estimate available for AK in that year.

[5] Estimates (except Canada) biased low because of HIP sampling issues in SD and AK that resulted in estimates of zero harvest for each.

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

YR	SAN LUIS VALLEY, COLORADO RAW COUNT	ADJ. FOR EST. BIAS[1]	ADJ. FOR REM. LES.[2]	OTHER AREAS	INDEX	SURVEY COND.
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	2,248	5,264	19,304	
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	3,162	3,415	18,102	17,692
1999	2,292	1,102	8,761	4,205	3,141	19,501	18,546
2000	2,416	749	9,337	3,890	3,598	19,990	19,198
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
2006 [3]						NS	19,633
2007 [4]	2,401	1,743	8,262	3,907	6,509	22,822	20,732
2008 [5]	3,708	1,080	6,123	3,826	6,419	21,156	21,614
2009	2,283	1,162	6,934	3,613	6,329	20,321	21,433
2010	3,242	985	5,776	3,726	7,335	21,064	20,847
2011	1,498	1,347	5,029	2,978	6,642	17,494	19,626
2012	2,109	413	3,432	3,587	5,876	15,417	17,992
2013	2,732	1,594	5,228	3,588	7,218	20,360	17,757
2014	2,783	1,258	6,064	3,008	6,555	19,668	18,482
2015	3,698	1,089	6,454	3,596	9,493	24,330	21,453
2016 [6]	3,298	1,135	5,445	4,879	7,507	22,264	22,087
2017	2,994	1,658	4,066	3,725	7,149	19,592	22,062
2018	2,770	1,908	4,469	5,101	7,553	21,801	21,219

[1] Incomplete survey efforts in years prior might have resulted in lower estimates; the official count begins *09/20/19*
[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.
[3] In 2006, the survey was not conducted due to mechanical issues with the survey plane. The 3-yr Avg for 2006 is calculated using 2003-05.
[4] The 3-yr average for 2007 was calculated using 2004, 2005, and 2007 because there was no survey in 2006.
[5] The 3-yr average for 2008 was calculated using 2005, 2007, and 2008 because there was no survey in 2006.
[6] Beginning 1n 2016 Wyoming added six new survey areas as allowed in the management plan.

Estimated retrieved harvests of the Rocky Mountain Population of 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	0	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	164	42	132	51	194	643
2003	57	169	34	72	50	146	528
2004	53	189	35	124	51	142	594
2005	62	236	50	116	49	189	702
2006	87	327	10	194	54	235	907
2007	103	276	43	138	73	187	820
2008	101	379	24	162	85	185	936
2009	149	603	67	195	124	254	1,392
2010	190	547	56	182	108	253	1,336
2011 [3]	149	522	37	166	90	293	1,257
2012 [3]	91	417	85	134	129	275	1,131
2013 [3]	95	241	38	74	94	135	677
2014	73	183	20	94	121	134	625
2015	86	145	67	104	137	166	705
2016	72	453	74	158	140	258	1,155
2017	189	395	68	193	150	198	1,193
2018	203	623	102	189	154	253	1,524
AVERAGES:							
1981-89		397	35	147			259
1990-99	32	198	32	105	51	120	457
2000-09	82	289	37	144	72	200	823
2010-2018	128	392	61	144	125	218	1,067
1981-2018	78	296	41	134	83	193	651
CURRENT YEAR PERCENT CHANGE FROM:							
2017	7%	58%	50%	-2%	3%	28%	28%
1981-89		57%	195%	29%			488%
1990-99	530%	214%	219%	80%	201%	110%	234%
2000-09	148%	116%	177%	31%	115%	26%	85%
2010-2018	59%	59%	68%	31%	23%	16%	43%
1981-2018	160%	110%	151%	41%	85%	31%	134%

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

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

[3] Harvest includes crippling loss.

09/20/19

CENTRAL FLYWAY

FRAMEWORKS

SUMMARY OF CENTRAL FLYWAY FRAMEWORKS FOR REGULAR CANADA GOOSE SEASONS, 2015-2024

EAST TIER STATES - ND, SD, NE, KS, OK, & E. TX

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
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					
Earliest Opening Date	September 26	September 24	September 23	September 22	September 21					
Latest Closing Date	February 14	February 12	February 18	February 17	February 16					
Season Length	107	107	107	107	107					
Daily Bag/ Possession	8/24	8/24	8/24	8/24	8/24					

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
Earliest Opening Date	September 26	September 24	September 23	September 22	September 21
Latest Closing Date	February 14	February 12	February 18	February 17	February 16
Season Length [1]	107/95	107/95	107/95	107/95	107/95
Daily Bag/ Possession	5/15	5/15	5/15	5/15	5/15

[1] MT, WY, CO, NM/West Goose Zone of TX.

20-Sep-19

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SUMMARY OF CENTRAL FLYWAY FRAMEWORKS FOR LIGHT GOOSE HUNTING, 2015-2024

EAST TIER STATES - ND, SD, NE, KS, OK, & E. TX

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
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					
Earliest Opening Date	September 26	September 24	September 23	September 22	September 21					
Latest Closing Date	March 10	March 10	March 10	March 10	March 10					
Season Length	107	107	107	107	107					
Daily Bag/ Possession	50/None	50/None	50/None	50/None	50/None					

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
Earliest Opening Date	September 26	September 24	September 23	September 22	September 21
Latest Closing Date	March 10	March 10	March 10	March 10	March 10
Season Length	107	107	107	107	107
Daily Bag/ Possession	50/None	50/None	50/None	50/None	50/None

20-Sep-19

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U.S. Federal Frameworks for the Hunting of Light Geese 1961-2019

	PACIFIC FLYWAY [1]					CENTRAL FLYWAY [2]										MISSISSIPPI FLYWAY					ATLANTIC FLYWAY			
				BAG/POSS		WEST TIER STATES					EAST TIER STATES													
YEAR	OPEN	CLOSE	DAYS	SNOWS	ROSS'	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	3,4,6	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	Sep 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 70	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	75	5/5	5,6	Oct 01	Jan 24	21 70	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 70	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 70	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	Oct 01	Jan 20	23 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	Oct 01	Jan 20	23 70	5/5	18	Closed prior to 1975			
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 70	5/5	18	Oct 1	Jan 31	30	2/4
1976	Oct 2	Jan 23	93	3/6	1/1	Oct 02	Jan 23	93	2/4	5,6,9	Oct 02	Jan 23	72	5/5	5	Oct 01	Jan 20	23 70	5/5	18	Oct 1	Jan 31	30	2/4
1977	Oct 1	Jan 22	93	3/6	1/1	Oct 01	Jan 22	93	2/4	5,6,9	Oct 01	Jan 22	86	5/5	5	Oct 01	Jan 20	23 70	5/5	18	Oct 1	Jan 31	60	2/4
1978	Sep 30	Jan 21	93	3/6	1/1	Sep 30	Jan 21	93	2/4	5,6,9	Sep 30	Jan 21	86	5/5	5	Oct 01	Jan 20	23 70	5/5	18	Oct 1	Jan 31	70	2/4
1979	Sep 29	Jan 20	93	3/6	3/6	Sep 29	Jan 20	93	2/4	6,9	Sep 29	Jan 20	86	5/5		Sep 29	Jan 20	23 70	5/5	18	Oct 1	Jan 31	70	4/8
1980	Oct 4	Jan 18	93	3/6	3/6	Oct 04	Jan 18	8 93	2/4	6,10	Oct 04	Jan 18	86	5/10		Oct 04	Jan 20	23 70	5/10	18	Oct 1	Jan 31	70	4/8
1981	Oct 3	Jan 17	93	3/6	3/6	Oct 03	Jan 17	8 93	2/4	6,10	Oct 03	Jan 17	86	5/10		Oct 03	Jan 20	23 70	5/10	18	Oct 1	Jan 31	90	4/8
1982	Oct 2	Jan 23	93	3/6	3/6	Oct 02	Jan 23	8 93	2/4	6,10	Oct 02	Jan 23	86	5/10		Oct 02	Jan 20	23 70	5/10	18	Oct 1	Jan 31	90	4/8
1983	Oct 1	Jan 22	93	3/6	3/6	Oct 01	Jan 22	8 93	2/4	6,10	Oct 01	Jan 22	86	5/10		Oct 01	Jan 20	23 70	5/10	18	Oct 1	Jan 31	90	4/8
1984	Sep 29	Jan 20	93	3/6	3/6	Sep 29	Feb 12	8 93	2/4	6,10	Sep 29	Feb 12	86	5/10		Sep 29	Jan 20	23 70	5/10	18	Oct 1	Jan 31	90	4/8
1985	Sep 28	Jan 19	93	3/6	3/6	Sep 28	Feb 16	11 93	5/10		Sep 28	Feb 16	86	5/10		Sep 28	Jan 20	23 70	5/10	18	Oct 1	Jan 31	90	4/8
1986	Oct 4	Jan 18	93	3/6	3/6	Oct 04	Feb 15	11 93	5/10		Oct 04	Feb 15	86	5/10		Oct 04	Jan 20	19,22 70	5/10	18	Oct 1	Jan 31	90	4/8
1987	Oct 3	Jan 17	93	3/6	3/6	Oct 03	Feb 14	11 93	5/10		Oct 03	Feb 14	86	5/10		Oct 03	Jan 17	19,22 70	5/10	18	Oct 1	Jan 31	90	4/8
1988	Oct 1	Jan 22	93	3/6	3/6	Oct 01	Feb 14	11 95	5/10		Oct 01	Feb 14	86	5/10		Oct 01	Jan 22	23,24 70	5/10	18	Oct 1	Jan 31	90	4/8
1989	Sep 30	Jan 21	93	3/6	3/6	Sep 30	Feb 18	11 95	5/10		Sep 30	Feb 18	100	5/10		Sep 30	Jan 21	23,24 80	7/14	18	Oct 1	Jan 31	90	5/10
1990	Sep 29	Jan 20	93	3/6	3/6	Sep 29	Feb 17	11 100	5/10		Sep 29	Feb 17	86;100	5/10;7/14		Sep 29	Jan 20	23,24 80	7/14	18	Oct 1	Feb 10	107	5/10
1991	Sep 28	Jan 19	93	3/6	3/6	Sep 28	Feb 16	11 107	5/10		Sep 28	Feb 16	86;100	5/10;7/14		Sep 28	Jan 31	23 80	7/14	18	Oct 1	Jan 10	107	5/10
1992	Oct 3	Jan 17	93	3/6	3/6	Oct 03	Feb 14	11 107	5/10		Oct 03	Feb 14	107	10/20		Oct 03	Jan 31	23 80	7/14	18	Oct 1	Feb 10	107	5/10
1993	Oct 2	Jan 23	100	3/6	3/6	Oct 02	Feb 13	11 107	5/10		Oct 02	Feb 13	107	10/20		Oct 02	Feb 14	80	7/14	18	Oct 1	Feb 10	107	5/10
1994	Oct 1	Jan 20	100	3/6	3/6	Oct 01	Feb 28	12 107	5/10		Oct 01	Feb 28	7 107	10/20		Oct 01	Feb 14	107	7/14	18	Oct 1	Feb 10	107	5/10
1995	Oct 1	Jan 21	100	3/6	3/6	Sep 30	Mar 10	17 107	5/10		Sep 30	Mar 10	13 107	10/20		Oct 01	Feb 14	25 107	10/20	18	Oct 1	Feb 10	26 107	5/10
1996	Sep 29	Jan 19	100	3/6	3/6	Sep 28	Mar 10	107	10/40		Sep 28	Mar 10	14 107	10/40		Sep 28	Mar 10	107	10/30		Oct 1	Mar 10	107	8/24
1997	Oct 04	Jan 18	100	3/6	3/6	Oct 04	Mar 10	107	10/40		Oct 04	Mar 10	14 107	10/40		Oct 04	Mar 10	107	10/30		Oct 1	Mar 10	107	10/30
1998	Oct 03	Jan 17	100	3/6	3/6	Oct 03	Mar 10	107	20/none		Oct 03	Mar 10	15 107	20/none		Oct 03	Mar 10	107	20/none		Oct 1	Mar 10	107	15/none
1999	Oct 02	Jan 23	100	3/6	3/6	Oct 02	Mar 10	107	20/none		Oct 02	Mar 10	15 107	20/none		Oct 02	Mar 10	107	20/none		Oct 1	Mar 10	107	15/none
2000	Sep 30	Jan 21	100	3/6	3/6	Sep 30	Mar 10	107	20/none		Sep 30	Mar 10	15 107	20/none		Sep 30	Mar 10	107	20/none		Oct 1	Mar 10	107	15/none
2001	Sep 29	Jan 20	100	3/6	3/6	Sep 29	Mar 10	107	20/none		Sep 29	Mar 10	107	20/none		Sep 29	Mar 10	107	20/none		Oct 1	Mar 10	107	15/none
2002	Sep 21	Jan 19	100	3/6	3/6	Sep 21	Mar 10	107	20/none		Sep 21	Mar 10	107	20/none		Sep 21	Mar 10	107	20/none		Oct 1	Mar 10	107	15/none
2003	Oct 04	Jan 25	27 100	3/6	3/6	Sep 27	Mar 10	107	20/none		Sep 27	Mar 10	107	20/none		Sep 27	Mar 10	107	20/none		Oct 1	Mar 10	107	15/none
2004	Sep 25	Jan 30	27 100	3/6	3/6	Sep 25	Mar 10	107	20/none		Sep 25	Mar 10	107	20/none		Sep 25	Mar 10	107	20/none		Oct 1	Mar 10	107	15/none
2005	Oct 01	Jan 29	27 100	4/8	4/8	Sep 24	Mar 10	107	20/none		Sep 24	Mar 10	107	20/none		Sep 24	Mar 10	107	20/none		Oct 1	Mar 10	107	15/none
2006	Sep 30	Jan 28	27 100	4/8	4/8	Sep 23	Mar 10	107	20/none		Sep 23	Mar 10	107	20/none		Sep 23	Mar 10	107	20/none		Oct 1	Mar 10	107	15/none
2007	Sep 29	Jan 27	27 100	4/8	4/8	Sep 22	Mar 10	107	20/none		Sep 22	Mar 10	107	20/none		Sep 22	Mar 10	107	20/none		Oct 1	Mar 10	107	15/none
2008	Oct 04	Mar 10	28 107	6/12	6/12	Sep 27	Mar 10	107	20/none		Sep 27	Mar 10	107	20/none		Sep 27	Mar 10	107	20/none		Oct 1	Mar 10	107	15/none
2009	Oct 03	Mar 10	28 107	6/12	6/12	Sep 26	Mar 10	107	20/none		Sep 26	Mar 10	107	20/none		Sep 26	Mar 10	107	20/none		Oct 1	Mar 10	107	15/none
2010	Oct 02	Mar 10	28 107	6/12	6/12	Sep 25	Mar 10	107	20/none		Sep 25	Mar 10	107	20/none		Sep 25	Mar 10	107	20/none		Oct 1	Mar 10	107	25/none
2011	Oct 01	Mar 10	28 107	6/12	6/12	Sep 24	Mar 10	107	20/none		Sep 24	Mar 10	107	20/none		Sep 24	Mar 10	107	20/none		Oct 1	Mar 10	107	25/none
2012	Sep 29	Mar 10	28 107	6/12	6/12	Sep 22	Mar 10	107	20/none		Sep 22	Mar 10	107	20/none		Sep 22	Mar 10	107	20/none		Oct 1	Mar 10	107	25/none
2013	Sep 28	Mar 10	28 107	6/18	6/18	Sep 21	Mar 10	107	50/none		Sep 21	Mar 10	107	50/none		Sep 21	Mar 10	107	20/none		Oct 1	Mar 10	107	25/none
2014	Sep 27	Mar 10	28 107	20/60	20/60	Sep 27	Mar 10	107	50/none		Sep 27	Mar 10	107	50/none		Sep 27	Mar 10	107	20/none		Oct 1	Mar 10	107	25/none
2015	Sep 26	Mar 10	107	20/60	20/60	Sep 26	Mar 10	107	50/none		Sep 26	Mar 10	107	50/none		Sep 26	Mar 10	107	20/none		Oct 1	Mar 10	107	25/none
2016	Sep 24	Mar 10	107	20/60	20/60	Sep 24	Mar 10	107	50/none		Sep 24	Mar 10	107	50/none		Sep 01	Feb 15	107	20/none		Oct 1	Mar 10	107	25/none
2017	Sep 23	Mar 10	107	20/60	20/60	Sep 23	Mar 10	107	50/none		Sep 23	Mar 10	107	50/none		Sep 01	Feb 15	107	20/none		Oct 1	Mar 10	107	25/none
2018	Sep 22	Mar 10	107	20/60	20/60	Sep 22	Mar 10	107	50/none		Sep 22	Mar 10	107	50/none		Sep 01	Feb 15	107	20/none		Oct 1	Mar 10	107	25/none
2019	Sep 21	Mar 10	107	20/60	20/60	Sep 21	Mar 10	107	50/none		Sep 21	Mar 10	107	50/none		Sep 01	Feb 15	107	20/none		Oct 1	Mar 10	107	25/none

1 Alaska frameworks are separate: Generally 105-107 days with a total goose bag of 6
2. East - ND/SD/NE/KS/OK/TX (E.), West - MT/WY/CO/NM/TX (W.)
3. The season is closed on Ross' geese
4. The season is closed on snow geese in Wyoming
5. The bag/possession limit on Ross' geese is 1/1.
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)
9. The bag/poss limit for light geese is 5/5 for NM and the western goose zone, TX
10. The bag/poss limit for light geese is 5/10 for NM and the western goose zone, TX
11. Excluding NM MRGV, where the ending date is Feb 28
12. Excluding MT and WY where the ending date is Feb 12
13. Excluding ND, SD and NE north of the Platte R. and the Rainwater Basin Zone where the ending date is Feb 18
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
17. Excluding MT and WY north of I-80 where the ending date is Feb 18
18. Aggregate goose bag limit - all may be light geese
19. Closing date for AR is Jan 31
20. Seaon closed in Issaquena, Sharkey and Washington Co. MS
21. Closing date in LA is Feb 15
22. Opening date in WI is Oct 01
23. Closing date for LA is Feb 14
24. Closing date in KY, AR, TN, MS and AL is Jan 31
25. States and portions of states south of I-80 have an ending date of Mar 10
26. NJ, DE, MD, NC, PA, SC, and VA closing date of 3/10 allowed; SC chose 2/10 closing
27. The Interior States (AZ, CO, ID, MT, NV, NM, UT, WY) start date is Saturday closest to Sep 24 and is 107 days.
28. The Interior States (AZ, CO, ID, MT, NV, NM, UT, WY) start date is Saturday closest to Sep 24 and the daily bag is 10.

SUMMARY OF CENTRAL FLYWAY FRAMEWORKS FOR DUCK HUNTING, 2015-2024

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
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					
Opening Date	Sep 26	Sep 24	Sep 23	Sep 22	Sep 21					
Closing Date	Jan 31	Jan 29	Jan 28	Jan 27	Jan 26					
Season Length	74 +23 HP [1]	74 +23 HP [1]	74 +23 HP [1]	74 +23 HP [1]	74 +23 HP [1]					
Daily Bag/ Possession [3]	6 18	6 18	6 18	6 18	6 18					
Species/Sex Restrictions										
Mallard (M)	5	5	5	5	5					
Mallard (F)	2	2	2	2	2					
Pintail	2	2	1	2	1					
H. Merganser [2]	2	2	2	2	2					
Canvasback	2	2	2	2	2					
Redhead	2	2	2	2	2					
Scaup	3	3	3	3	3					
Wood Duck	3	3	3	3	3					
Mottled Duck	1 [4]	1 [4]	1 [4]	1 [4]	1 [4]					

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[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.

[3] In addition, ND, SD, MT and WY may take an additional 2 and 6 (bag/possession) blue-winged teal during the first 16 days of their regular duck season.

[4] Bag limit is 1 and season closed for the 1st 5 days of the season in Texas only; elsewhere bag limit is 6 and no opening season restriction.

SUMMARY OF CENTRAL FLYWAY FRAMEWORKS FOR SANDHILL CRANE HUNTING, 2015-2024

Mid-Continent Population-All states except Nebraska

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Beginning Shooting Time	1/2 hr. before sunrise [1]	1/2 hr. before sunrise [1]	1/2 hr. before sunrise [1]	1/2 hr. before sunrise [1]	1/2 hr. before sunrise [1]					
Ending Shooting Time	Sunset	Sunset	Sunset	Sunset	Sunset					
Opening Date	Sep 01	Sep 01	Sep 01	Sep 01	Sep 01					
Closing Date	Feb 28	Feb 28	Feb 28	Feb 28	Feb 28					
Season Length	93[2], 58[3], 37[4]	93[2], 58[3], 37[4]	93[2], 58[3], 37[4]	93[2], 58[3], 37[4]	93[2], 58[3], 37[4]					
Daily Bag/ Possession[5]	3 9	3 9	3 9	3 9	3 9					

[1] Kansas begins at sunrise.
[2] OK and portions of TX and NM.
[3] CO, KS, MT, ND, portions of SD and WY.
[4] Area 2 in ND and Area C in TX.
[5] Bag/possession limit is 2/6 in Area 2 in ND and Area C in TX.

Rocky Mountain Population-RMP hunt areas in CO, MT, NM, WY

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
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					
Opening Date	Sep 01	Sep 01	Sep 01	Sep 01	Sep 01					
Closing Date	Jan 31	Jan 31	Jan 31	Jan 31	Jan 31					
Season Length	30	30	30	60 [1]	60 [1]					
Daily Bag/ Possession	3 9/season	3 9/season	3 9/season	3 9/season	3 9/season					

[1] Season may not be split into more than 3 segments.

ADAPTIVE HARVEST MANAGEMENT CRITERIA

1995-96 AHM MATRIX

Optimal regulatory choices[1] 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 in WBPHS and MN, WI, and MI.
[3] Estimated number (millions) of ponds counted in Prairie Canada during May surveys.

1996-97 AHM MATRIX

Optimal regulatory choices[1] 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										
5.0								R	R	R
5.5					R	R	R	R	M	M
ch 6.0	R	R	R	R	R	R	M	M	L	L
6.5	R	R	R	M	M	M	L	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 in WBPHS and MN, WI, and M
[3] Estimated number (millions) of ponds counted in Prairie Canada during May surveys.

1997-98 AHM MATRIX

Optimal regulatory choices[1] 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								VR	VR	VR
6.0			VR	VR	VR	VR	VR	R	R	R
6.5	VR	VR	VR	VR	R	R	R	M	M	M
7.0	R	R	R	R	R	M	M	M	L	L
7.5	R	R	M	M	M	M	L	L	L	L
8.0	M	M	M	M	L	L	L	L	L	L
8.5	M	M	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: VR = very restrictive, R = restrictive, M = moderate, L = liberal. 1997-98 optimal 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 in WBPHS and MN, WI, and MI.
[3] Estimated number (millions) of ponds counted in Prairie Canada during May surveys.

1998-99 AHM MATRIX

Optimal regulatory choices[1] 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										VR
5.5							VR	VR	VR	R
6.0		VR	VR	VR	VR	VR	R	R	R	M
6.5	VR	VR	VR	R	R	R	M	M	M	L
7.0	R	R	R	R	M	M	M	L	L	L
7.5	R	M	M	M	M	L	L	L	L	L
8.0	M	M	M	L	L	L	L	L	L	L
8.5	M	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: 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 in WBPHS and MN, WI, and M
[3] Estimated number (millions) of ponds in Prairie Canada during May surveys.

1999-2000 AHM MATRIX

Optimal regulatory choices[1] for midcontinent mallards during the 1999 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										VR
5.5							VR	VR	VR	R
6.0		VR	VR	VR	VR	VR	R	R	R	M
6.5	VR	VR	VR	R	R	R	M	M	M	L
7.0	R	R	R	R	M	M	M	L	L	L
7.5	R	M	M	M	M	L	L	L	L	L
8.0	M	M	M	L	L	L	L	L	L	L
8.5	M	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
11.5	L	L	L	L	L	L	L	L	L	L

[1] Package choices: VR = very restrictive, R = restrictive, M = moderate, L = liberal. 1999-2000 optimal choice is indicated by grey-shaded cell (1999 values = 11.8 million mallards and 3.9 million ponds).
[2] Estimated number (millions) of midcontinent mallards during May surveys in WBPHS and MN, WI, and MI.
[3] Estimated number (millions) of ponds in Prairie Canada during May surveys.

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2000-2001 AHM MATRIX

Optimal regulatory choices[1] for midcontinent mallards during the 2000 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										VR
5.0						VR	VR	VR	R	R
5.5	VR	VR	VR	VR	VR	R	R	R	M	M
ch 6.0	VR	R	R	R	R	M	M	M	L	L
6.5	R	R	M	M	M	M	L	L	L	L
7.0	M	M	M	M	L	L	L	L	L	L
7.5	M	M	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

[1] Package choices: VR = very restrictive, R = restrictive, M = moderate, L = liberal. 2000-2001 optimal choice is indicated by grey-shaded cell (2000 values = 10.5 million mallards and 2.4 million ponds).
[2] Estimated number (millions) of midcontinent mallards during May surveys in WBPHS and MN, WI, and M
[3] Estimated number (millions) of ponds in Prairie Canada during May surveys.

2001-2002 AHM MATRIX

Optimal regulatory choices[1] for midcontinent mallards during the 2001 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										VR
5.0					VR	VR	VR	VR	R	R
5.5	VR	VR	VR	VR	R	R	R	M	M	M
6.0	R	R	R	R	M	M	M	M	L	L
6.5	R	R	M	M	M	L	L	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: VR = very restrictive, R = restrictive, M = moderate, L = liberal. 2001-2002 optimal choice is indicated by grey-shaded cell (2001 values = 8.7 million mallards and 2.7 million ponds).
[2] Estimated number (millions) of midcontinent mallards during May surveys in WBPHS and MN, WI, and MI.
[3] Estimated number (millions) of ponds in Prairie Canada during May surveys.

2002-2003 AHM MATRIX

Optimal regulatory choices[1] for midcontinent mallards during the 2002 hunting season.

MALLARDS[2]	1.0	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								VR	VR	VR	VR
6.5				VR	R	R	R	R	R	M	M
7.0	R	R	R	R	R	M	M	M	M	L	L
7.5	R	R	M	M	M	L	L	L	L	L	L
8.0	M	L	L	L	L	L	L	L	L	L	L
8.5	L	L	L	L	L	L	L	L	L	L	L
9.0	L	L	L	L	L	L	L	L	L	L	L
9.5	L	L	L	L	L	L	L	L	L	L	L
10.0	L	L	L	L	L	L	L	L	L	L	L
10.5	L	L	L	L	L	L	L	L	L	L	L
11.0	L	L	L	L	L	L	L	L	L	L	L

[1] Package choices: VR = very restrictive, R = restrictive, M = moderate, L = liberal. 2002-2003 optimal choice is indicated by grey-shaded cell (2002 values = 8.5 million mallards and 1.4 million ponds).
[2] Estimated number (millions) of midcontinent mallards during May surveys in WBPHS and MN, WI, and MI
[3] Estimated number (millions) of ponds in Prairie Canada during May surveys.

2003-2004 AHM MATRIX

Optimal regulatory choices[1] for midcontinent mallards during the 2003 hunting season.

	CANADIAN PONDS[3]									
MALLARDS[2]	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
<=5.25										
5.50-6.50	R	R	R	R	R	R	R	R	R	R
6.75	R	R	R	R	R	R	R	R	M	M
7.0	R	R	R	R	R	R	R	M	M	L
7.25	R	R	R	R	M	M	L	L	L	L
7.5	R	R	R	M	L	L	L	L	L	L
7.75	R	M	M	L	L	L	L	L	L	L
8.0	M	M	M	L	L	L	L	L	L	L
8.25	M	L	L	L	L	L	L	L	L	L
>=8.5	L	L	L	L	L	L	L	L	L	L

[1] Package choices: R = restrictive, M = moderate, L = liberal. 2003-2004 optimal choice is indicated by grey-shaded cell (2003 values = 8.8 million mallards and 3.52 million ponds).
[2] Estimated number (millions) of midcontinent mallards during May surveys in WBPHS and MN, WI, and MI.
[3] Estimated number (millions) of ponds in Prairie Canada during May surveys.

2004-2005 AHM MATRIX

Optimal regulatory choices[1] for midcontinent mallards during the 2004 hunting season.

	CANADIAN PONDS[3]									
MALLARDS[2]	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	R	M
6.75	R	R	R	R	R	R	R	M	M	L
7.00	R	R	R	R	R	M	M	M	L	L
7.25	R	R	R	M	M	M	L	L	L	L
7.50	R	R	M	M	L	L	L	L	L	L
7.75	M	M	L	L	L	L	L	L	L	L
8.00	M	L	L	L	L	L	L	L	L	L
>=8.5	L	L	L	L	L	L	L	L	L	L

[1] Package choices: C = closed, R = restrictive, M = moderate, L = liberal. 2004-2005 optimal choice is indicated by grey-shaded cell (2004 values = 8.36 million mallards and 2.51 million ponds).
[2] Estimated number (millions) of midcontinent mallards during May surveys in WBPHS and MN, WI, and MI.
[3] Estimated number (millions) of ponds in Prairie Canada during May surveys.

2005-2006 AHM MATRIX

Optimal regulatory choices[1] for midcontinent mallards during the 2005 hunting season.

	CANADIAN PONDS[3]									
MALLARDS[2]	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	R	M
6.75	R	R	R	R	R	R	M	M	M	L
7.00	R	R	R	R	R	M	M	L	L	L
7.25	R	R	R	M	M	M	L	L	L	L
7.50	R	M	M	M	L	L	L	L	L	L
7.75	M	M	M	L	L	L	L	L	L	L
8.00	M	M	L	L	L	L	L	L	L	L
8.25	L	L	L	L	L	L	L	L	L	L
>=8.5	L	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 in WBPHS and 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 choices[1] for midcontinent mallards during the 2006 hunting season.

	CANADIAN PONDS[3]									
MALLARDS[2]	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 in WBPHS and MN, WI, and MI.
[3] Estimated number (millions) of ponds in Prairie Canada during May surveys.

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2007-2008 AHM MATRIX

Optimal regulatory choices[1] for midcontinent mallards during the 2007 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	R	M
6.75	R	R	R	R	R	R	M	M	M	L
7.00	R	R	R	R	R	M	M	L	L	L
7.25	R	R	R	M	L	L	L	L	L	L
7.50	R	M	M	L	L	L	L	L	L	L
7.75	M	M	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: R = restrictive, M = moderate, L = liberal. 2007-2008 optimal choice is indicated by grey-shaded cell (2007 values = 9.05 million mallards and 5.04 million ponds).
[2] Estimated number (millions) of midcontinent mallards during May surveys in WBPHS and MN, WI, and MI.
[3] Estimated number (millions) of ponds in Prairie Canada during May surveys.

2008-2009 AHM MATRIX

Optimal regulatory choices[1] for midcontinent mallards during the 2008 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
<=4.5	C	C	C	C	C	C	C	C	C	C
4.75-5.50	R	R	R	R	R	R	R	R	R	R
5.75	R	R	R	R	R	R	R	R	R	M
6.00	R	R	R	R	R	R	R	M	L	L
6.25	R	R	R	R	M	M	M	L	L	L
6.50	R	R	R	M	M	L	L	L	L	L
6.75	R	M	M	L	L	L	L	L	L	L
7.00	M	M	M	L	L	L	L	L	L	L
>=7.25	L	L	L	L	L	L	L	L	L	L

[1] Package choices: R = restrictive, M = moderate, L = liberal. 2008-2009 optimal choice is indicated by grey-shaded cell (2008 values = 7.87 million mallards and 3.05 million ponds).
[2] Estimated number (millions) of midcontinent mallards during May surveys in WBPHS and MN, WI, and MI.
[3] Estimated number (millions) of ponds in Prairie Canada during May surveys.

2009-2010 AHM MATRIX

Optimal regulatory choices[1] for midcontinent mallards during the 2009 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
<=4.5	C	C	C	C	C	C	C	C	C	C
4.75-5.75	R	R	R	R	R	R	R	R	R	R
6.00	R	R	R	R	R	R	R	R	M	M
6.25	R	R	R	R	R	R	M	M	M	L
6.50	R	R	R	R	M	M	M	L	L	L
6.75	R	R	R	M	L	L	L	L	L	L
7.00	R	M	M	L	L	L	L	L	L	L
7.25	M	M	L	L	L	L	L	L	L	L
7.50	M	L	L	L	L	L	L	L	L	L
>=7.75	L	L	L	L	L	L	L	L	L	L

[1] Package choices: R = restrictive, M = moderate, L = liberal. 2009-2010 optimal choice is indicated by grey-shaded cell (2009 values = 8.71 million mallards and 3.57 million ponds).
[2] Estimated number (millions) of midcontinent mallards during May surveys in WBPHS and MN, WI, and MI.
[3] Estimated number (millions) of ponds in Prairie Canada during May surveys.

2010-2011 AHM MATRIX

Optimal regulatory choices[1] for midcontinent mallards during the 2010 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
<=4.5	C	C	C	C	C	C	C	C	C	C
4.75-5.75	R	R	R	R	R	R	R	R	R	R
6.00	R	R	R	R	R	R	R	R	M	M
6.25	R	R	R	R	R	R	M	M	M	L
6.50	R	R	R	R	M	M	M	L	L	L
6.75	R	R	R	M	L	L	L	L	L	L
7.00	R	M	M	M	L	L	L	L	L	L
7.25	M	L	L	L	L	L	L	L	L	L
7.50	L	L	L	L	L	L	L	L	L	L
>=7.75	L	L	L	L	L	L	L	L	L	L

[1] Package choices: R = restrictive, M = moderate, L = liberal. 2010-2011 optimal choice is indicated by grey-shaded cell (2010 values = 8.60 million mallards and 3.73 million ponds).
[2] Estimated number (millions) of midcontinent mallards during May surveys in WBPHS and MN, WI, and MI.
[3] Estimated number (millions) of ponds in Prairie Canada during May surveys.

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2011-2012 AHM MATRIX

Optimal regulatory choices[1] for midcontinent mallards during the 2011 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
<=4.5	C	C	C	C	C	C	C	C	C	C
4.75-6.0	R	R	R	R	R	R	R	R	R	R
6.25	R	R	R	R	R	R	R	R	M	M
6.50	R	R	R	R	R	R	M	M	L	L
6.75	R	R	R	R	R	M	M	L	L	L
7.00	R	R	R	M	M	L	L	L	L	L
7.25	R	M	M	M	L	L	L	L	L	L
7.50	M	M	L	L	L	L	L	L	L	L
7.75	M	L	L	L	L	L	L	L	L	L
>=8.0	L	L	L	L	L	L	L	L	L	L

[1] Package choices: R = restrictive, M = moderate, L = liberal. 2011-2012 optimal choice is indicated by grey-shaded cell (2011 values = 9.46 million mallards and 4.89 million ponds).
[2] Estimated number (millions) of midcontinent mallards during May surveys in WBPHS and MN, WI, and MI.
[3] Estimated number (millions) of ponds in Prairie Canada during May surveys.

2012-2013 AHM MATRIX

Optimal regulatory choices[1] for midcontinent mallards during the 2012 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
<=4.5	C	C	C	C	C	C	C	C	C	C
4.75-6.0	R	R	R	R	R	R	R	R	R	R
6.25	R	R	R	R	R	R	R	R	R	M
6.50	R	R	R	R	R	R	R	M	M	M
6.75	R	R	R	R	R	M	M	M	L	L
7.00	R	R	R	M	M	M	L	L	L	L
7.25	R	R	M	M	L	L	L	L	L	L
7.50	R	M	L	L	L	L	L	L	L	L
7.75	M	L	L	L	L	L	L	L	L	L
>=8.0	L	L	L	L	L	L	L	L	L	L

[1] Package choices: R = restrictive, M = moderate, L = liberal. 2011-2012 optimal choice is indicated by grey-shaded cell (2012 values = 10.96 million mallards and 3.89 million ponds).
[2] Estimated number (millions) of midcontinent mallards during May surveys in WBPHS and MN, WI, and MI.
[3] Estimated number (millions) of ponds in Prairie Canada during May surveys.

2013-2014 AHM MATRIX

Optimal regulatory choices[1] for midcontinent mallards during the 2013 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
<=4.5	C	C	C	C	C	C	C	C	C	C
4.75-6.25	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	M
7.00	R	R	R	R	M	M	L	L	L	L
7.25	R	R	M	M	M	L	L	L	L	L
7.50	R	R	M	M	L	L	L	L	L	L
7.75	M	M	L	L	L	L	L	L	L	L
>=8.0	L	L	L	L	L	L	L	L	L	L

[1] Package choices: R = restrictive, M = moderate, L = liberal. 2013-2014 optimal choice is indicated by grey-shaded cell (2013 values = 10.80 million mallards and 4.55 million ponds).

[2] Estimated number (millions) of midcontinent mallards during May surveys in WBPHS (strata 13-18, 20-50, 75-77) and MN, WI, and MI.

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

2014-2015 AHM MATRIX

Optimal regulatory choices[1] for midcontinent mallards during the 2014 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
<=4.5	C	C	C	C	C	C	C	C	C	C
4.75-6.25	R	R	R	R	R	R	R	R	R	R
6.50	R	R	R	R	R	R	R	R	R	M
6.75	R	R	R	R	R	R	R	M	M	L
7.00	R	R	R	R	R	M	M	M	L	L
7.25	R	R	R	M	M	M	L	L	L	L
7.50	R	R	M	M	L	L	L	L	L	L
7.75	M	M	L	L	L	L	L	L	L	L
>=8.0	L	L	L	L	L	L	L	L	L	L

[1] Package choices: R = restrictive, M = moderate, L = liberal. 2014-2015 optimal choice is indicated by grey-shaded cell (2014 values = 11.04 million mallards and 4.63 million ponds).

[2] Estimated number (millions) of midcontinent mallards during May surveys in WBPHS (strata 13-18, 20-50, 75-77) and MN, WI, and MI.

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

2015-2016 AHM MATRIX

Optimal regulatory choices[1] for midcontinent mallards during the 2015 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
<=4.5	C	C	C	C	C	C	C	C	C	C
4.75-6.25	R	R	R	R	R	R	R	R	R	R
6.50	R	R	R	R	R	R	R	R	R	M
6.75	R	R	R	R	R	R	R	R	M	M
7.00	R	R	R	R	R	R	M	M	M	L
7.25	R	R	R	R	M	M	L	L	L	L
7.50	R	R	M	M	M	L	L	L	L	L
7.75	R	M	M	L	L	L	L	L	L	L
8.00	M	M	L	L	L	L	L	L	L	L
>=8.25	L	L	L	L	L	L	L	L	L	L

[1] Package choices: R = restrictive, M = moderate, L = liberal. 2015-2016 optimal choice is indicated by grey-shaded cell (2015 values = 11.79 million mallards and 4.15 million ponds).

[2] Estimated number (millions) of midcontinent mallards during May surveys in WBPHS (strata 13-18, 20-50, 75-77) and MN, WI, and MI.

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

2016-2017 AHM MATRIX

Optimal regulatory choices[1] for midcontinent mallards during the 2016 hunting season, based on the regulatory choice (L), mallards and ponds in 2015.

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
<=4.5	C	C	C	C	C	C	C	C	C	C
4.75-6.00	R	R	R	R	R	R	R	R	R	R
6.25	R	R	R	R	R	R	R	R	R	M
6.50	R	R	R	R	R	R	R	R	L	L
6.75	R	R	R	R	R	R	M	L	L	L
7.00	R	R	R	R	R	M	L	L	L	L
7.25	R	R	R	R	L	L	L	L	L	L
7.50	R	R	R	L	L	L	L	L	L	L
7.75	R	R	L	L	L	L	L	L	L	L
8.00	R	L	L	L	L	L	L	L	L	L
>=8.25	L	L	L	L	L	L	L	L	L	L

[1] Package choices: R = restrictive, M = moderate, L = liberal. 2016-2017 optimal choice is indicated by grey-shaded cell (2015 values = 11.79 million mallards and 4.15 million ponds).

[2] Estimated number (millions) of midcontinent mallards during May surveys in WBPHS (strata 13-18, 20-50, 75-77) and MN, WI, and MI.

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

2017-2018 AHM MATRIX

Optimal regulatory choices[1] for midcontinent mallards during the 2017 hunting season, based on the regulatory choice (L), mallards and ponds in 2016.

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
<=4.5	C	C	C	C	C	C	C	C	C	C
4.75-6.00	R	R	R	R	R	R	R	R	R	R
6.25 #	R	R	R	R	R	R	R	R	R	R
6.50 #	R	R	R	R	R	R	R	R	M	L
6.75 #	R	R	R	R	R	R	R	L	L	L
7.00 #	R	R	R	R	R	R	L	L	L	L
7.25 #	R	R	R	R	M	L	L	L	L	L
7.50 #	R	R	R	M	L	L	L	L	L	L
7.75 #	R	R	M	L	L	L	L	L	L	L
8.00 #	R	M	L	L	L	L	L	L	L	L
8.25	M	L	L	L	L	L	L	L	L	L
>=8.50	L	L	L	L	L	L	L	L	L	L

[1] Package choices: R = restrictive, M = moderate, L = liberal. 2017-2018 optimal choice is indicated by grey-shaded cell (2016 values = 11.89 million mallards and 3.49 million ponds).

[2] Estimated number (millions) of midcontinent mallards during May surveys in WBPHS (strata 13-18, 20-50, 75-77) and MN, WI, and MI.

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

2018-2019 AHM MATRIX

Optimal regulatory choices[1] for midcontinent mallards during the 2018 hunting season, based on the regulatory choice (L), mallards and ponds in 2017.

MALLARDS[2]	IAN PONDS[3] 1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
<=4.5	C	C	C	C	C	C	C	C	C	C
4.75-6.00	R	R	R	R	R	R	R	R	R	R
6.25	R	R	R	R	R	R	R	R	R	R
6.50	R	R	R	R	R	R	R	R	M	L
6.75	R	R	R	R	R	R	R	L	L	L
7.00	R	R	R	R	R	R	L	L	L	L
7.25	R	R	R	R	M	L	L	L	L	L
7.50	R	R	R	M	L	L	L	L	L	L
7.75	R	R	M	L	L	L	L	L	L	L
8.00	R	M	L	L	L	L	L	L	L	L
8.25	M	L	L	L	L	L	L	L	L	L
>=8.50	L	L	L	L	L	L	L	L	L	L

[1] Package choices: R = restrictive, M = moderate, L = liberal. 2018-2019 optimal choice is indicated by grey-shaded cell (2017 values = 10.64 million mallards and 4.33 million ponds).

[2] Estimated number (millions) of midcontinent mallards during May surveys in WBPHS (strata 13-18, 20-50, 75-77) and MN, WI, and MI.

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

2019-2020 AHM MATRIX

Optimal regulatory choices[1] for midcontinent mallards during the 2019 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
<=4.5	C	C	C	C	C	C	C	C	C	C
4.75-6.00	R	R	R	R	R	R	R	R	R	R
6.25	R	R	R	R	R	R	R	R	R	M
6.50	R	R	R	R	R	R	R	R	L	L
6.75	R	R	R	R	R	R	M	L	L	L
7.00	R	R	R	R	R	L	L	L	L	L
7.25	R	R	R	R	L	L	L	L	L	L
7.50	R	R	R	L	L	L	L	L	L	L
7.75	R	R	L	L	L	L	L	L	L	L
8.00	R	L	L	L	L	L	L	L	L	L
>=8.25	L	L	L	L	L	L	L	L	L	L

[1] Package choices: R = restrictive, M = moderate, L = liberal. 2019-2020 optimal choice is indicated by grey-shaded cell (2018 values = 9.57 million mallards and 3.66 million ponds). See annual AHM report for finer-grained optimal choice matrix.

[2] Estimated number (millions) of midcontinent mallards during May surveys in WBPHS (strata 13-18, 20-50, 75-77) and MN, WI, and MI.

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

2020-2021 AHM MATRIX

Optimal regulatory choices[1] for midcontinent mallards during the 2020 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
<=4.5	C	C	C	C	C	C	C	C	C	C
4.75-6.25	R	R	R	R	R	R	R	R	R	R
6.50	R	R	R	R	R	R	R	R	M	L
6.75	R	R	R	R	R	R	R	L	L	L
7.00	R	R	R	R	R	R	L	L	L	L
7.25	R	R	R	R	M	L	L	L	L	L
7.50	R	R	R	M	L	L	L	L	L	L
7.75	R	R	M	L	L	L	L	L	L	L
8.00	R	M	L	L	L	L	L	L	L	L
8.25	M	L	L	L	L	L	L	L	L	L
>=8.5	L	L	L	L	L	L	L	L	L	L

[1] Package choices: R = restrictive, M = moderate, L = liberal. 2020-2021 optimal choice is indicated by grey-shaded cell (2019 values = 9.73 million mallards and 2.86 million ponds). See annual AHM report for finer-grained optimal choice matrix.

[2] Estimated number (millions) of midcontinent mallards during May surveys in WBPHS (strata 13-18, 20-50, 75-77) and 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 MANAGEMENT UNIT MOURNING DOVE TECHNICAL COMMITTEE

CENTRAL FLYWAY NONGAME TECHNICAL COMMITTEE

CENTRAL FLYWAY MEETING LOCATIONS

GAY SIMPSON & JOE GABIG AWARDS

CENTRAL FLYWAY CONSULTANTS

SERVICE REGULATIONS COMMITTEE

USFWS FLYWAY REPRESENTATIVES

USFWS REGIONAL MIGRATORY BIRD CHIEFS

CENTRAL FLYWAY COUNCIL
1948-2019

	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	AB	NWT	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			Ernie L. Paynter
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			Ernie L. Paynter
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			Ernie L. Paynter
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			Ernie L. Paynter
1956	T.L. Kimball	D.D. Leahy	A. O'Claire	L.P. Vance	H.C. Pickens	H.R. Morgan	D. Ware	E. Peterson	W.J. Cutbirth	A.F.C. Greene			Ernie L. Paynter
1957	T.L. Kimball	D.D. Leahy	A. O'Claire	M.O. Steen	H.C. Pickens	I. G. Bue	C. Burch	T. A. Schrader	H. Dodgen	A.F.C. Greene			Ernie L. Paynter
1958	T.L. Kimball	D.D. Leahy	A. O'Claire	M.O. Steen	F. A. Thompson	I. G. Bue	C. Burch	H.R. Woodward	H. Dodgen	A.F.C. Greene			Ernie L. Paynter
1959	T.L. Kimball	D.D. Leahy	W.J. Everin	M.O. Steen	F. A. Thompson	I. G. Bue	C. Burch	H.R. Woodward	H. Dodgen	A.F.C. Greene			Ernie L. Paynter
1960	T.L. Kimball	D.D. Leahy	W.J. Everin	M.O. Steen	F. A. Thompson	I. G. Bue	R.A. Stafford	H.R. Woodward	H. Dodgen	S.J. Jiacoletti			Ernie L. Paynter
1961	H.L. Woodward	F. Warders	W.J. Everin	M.O. Steen	F. A. Thompson	I. G. Bue	R.A. Stafford	W.J. Fillmore	E. Walker	S.J. Jiacoletti			Ernie L. Paynter
1962	H.L. Woodward	G. Moore	W.J. Everin	M.O. Steen	F. A. Thompson	R.W. Stuart	R.A. Stafford	W.J. Fillmore	A.J. Springs	S.J. Jiacoletti			Ernie L. Paynter
1963	H.L. Woodward	G. Moore	W.J. Everin	M.O. Steen	W.S. Huey	R.W. Stuart	R.A. Stafford	W.J. Fillmore	A.J. Springs	G.F. Wrakestraw			Ernie L. Paynter
1964	H.L. Woodward	G. Moore	W.G. Freeman	M.O. Steen	W.S. Huey	R.W. Stuart	W. Bever	W.J. Fillmore	A.J. Springs	G.F. Wrakestraw			Ernie L. Paynter
1965	H.L. Woodward	G. Moore	F.H. Dunkle	M.O. Steen	W.S. Huey	R.W. Stuart	W. Bever	W.J. Fillmore	A.J. Springs	G.F. Wrakestraw			Ernie L. Paynter
1966	H.L. Woodward	G. Moore	F.H. Dunkle	M.O. Steen	W.S. Huey	R.W. Stuart	W. Bever	W.J. Fillmore	A.J. Springs	J.B. White			Ernie L. Paynter
1967	H.L. Woodward	G. Moore	F.H. Dunkle	M.O. Steen	W.S. Huey	R.W. Stuart	W. Bever	R.A. Hodgins	A.J. Springs	J.B. White			Ernie L. Paynter
1968	H.L. Woodward	M.D. Schwilling	F.H. Dunkle	M.O. Steen	W.S. Huey	R.W. Stuart	W. Bever	R.A. Hodgins	A.J. Springs	J.B. White			C. Bernie Forbes
1969	H.L. Woodward	M.D. Schwilling	F.H. Dunkle	W.R. Barbee	W.S. Huey	R.W. Stuart	F. Copelin	R.A. Hodgins	A.J. Springs	J.B. White	D. Neave		C. Bernie Forbes
1970	H.L. Woodward	M.D. Schwilling	F.H. Dunkle	W.R. Barbee	W.S. Huey	R.W. Stuart	F. Copelin	R.A. Hodgins	J.R. Singleton	J.B. White	D. Neave		C. Bernie Forbes
1971	H.L. Woodward	M.D. Schwilling	F.H. Dunkle	W.R. Barbee	W.S. Huey	R.W. Stuart	F. Copelin	R.A. Hodgins	D. Russell	E. Thomas	D. Neave		H. Maliepaard
1972	H.L. Woodward	M.D. Schwilling	W.G. Freeman	W.R. Barbee	W.S. Huey	R.W. Stuart	F. Copelin	R.A. Hodgins	R. Kemp	G.F. Wrakestraw	D. Neave		H. Maliepaard
1973	J.R. Grieb	M.D. Schwilling	W.G. Freeman	W.R. Barbee	W.S. Huey	R.W. Stuart	G. Wint	J. Popowski	R. Kemp	G.F. Wrakestraw	D. Neave		H. Maliepaard
1974	J.R. Grieb	D. Wettersten	W.G. Freeman	W.R. Barbee	W.S. Huey	R.W. Stuart	G. Wint	J. Popowski	T.L. Clark	G.F. Wrakestraw	D. Neave		H. Maliepaard
1975	J.R. Grieb	D. Wettersten	W.G. Freeman	W.R. Barbee	W.S. Huey	R.W. Stuart	G. Wint	J. Popowski	T.L. Clark	G.F. Wrakestraw	D. Neave		H. Maliepaard
1976	J.R. Grieb	D. Wettersten	W.G. Freeman	W.J. Bailey	W.S. Huey	R.W. Stuart	G. Wint	J. Popowski	T.L. Clark	G.F. Wrakestraw	D. Neave		H. Maliepaard
1977	J.R. Grieb	L. Queal	W.G. Freeman	W.J. Bailey	W.S. Huey	R.W. Stuart	G. Wint	J. Merwin	T.L. Clark	E. Thomas	D. Neave		H. Maliepaard
1978	J.R. Grieb	L. Queal	W.G. Freeman	W.J. Bailey	W.S. Huey	R.W. Stuart	G. Wint	J. Merwin	T.L. Clark	E. Thomas	D. Neave		H. Maliepaard
1979	J.R. Grieb	J. Conley	E. Allen	W.J. Bailey	H. Olsen	R.W. Stuart	G. Wint	J. Lounsberry	T.L. Clark	E. Thomas	D. Neave		H. Maliepaard
1980	J.R. Grieb	W. Hanzlick	E. Allen	W.J. Bailey	H. Olsen	L. Kruckenberg	G. Wint	K. L. Cool	T.L. Clark	E. Thomas	G. Kemp		H. Maliepaard
1981	J.R. Grieb	W. Hanzlick	E. Allen	W.J. Bailey	H. Olsen	C.H. Schroeder	S. Lewis	K. L. Cool	T.L. Clark	E. Thomas	R.R. Andrews		H. Maliepaard
1982	J.R. Grieb	W. Hanzlick	E. Allen	W.J. Bailey	H. Olsen	C.H. Schroeder	S. Lewis	K. L. Cool	T.L. Clark	D. Dexter	R.R. Andrews		H. Maliepaard
1983	J.R. Grieb	W. Hanzlick	E. Allen	W.J. Bailey	H. Olsen	C.H. Schroeder	S. Lewis	K. L. Cool	T.L. Clark	D. Dexter	R.R. Andrews		H. Maliepaard
1984	J. Ruch	W. Hanzlick	D.W. Witt	W.J. Bailey	D. Sutcliffe	C.H. Schroeder	S. Lewis	K. L. Cool	T.L. Clark	D. Dexter	R.R. Andrews		H. Maliepaard
1985	J. Lipscomb	W. Hanzlick	D.W. Witt	W.J. Bailey	D. Sutcliffe	C.H. Schroeder	S. Lewis	J. Salyer	T.L. Clark	D. Strickland	R.R. Andrews		H. Maliepaard
1986	J. Lipscomb	W. Hanzlick	A. Olsen	W.J. Bailey	W. Montoya	C.H. Schroeder	S. Lewis	J. Salyer	B. Alexander	D. Strickland	R.R. Andrews		H. Maliepaard
1987	J. Lipscomb	W. A. Wentz	A. Olsen	W.J. Bailey	W. Montoya	C.H. Schroeder	S. Lewis	R. Beringson	C. Allen	D. Strickland	R.R. Andrews		H. Maliepaard
1988	R.M. Hopper	W. A. Wentz	A. Olsen	W.J. Bailey	W. Montoya	M.A. Johnson	S. Lewis	R. Beringson	C. Allen	D. Strickland	R.R. Andrews	K. Lloyd	H. Maliepaard
1989	R.M. Hopper	W. A. Wentz	K.L. Cool	W.J. Bailey	W. Montoya	L.A. Jones	S. Lewis	R. Beringson	B. Alexander	D. Strickland	R.R. Andrews	K. Lloyd	H. Maliepaard
1990	R.M. Hopper	W. A. Wentz	K.L. Cool	W.J. Bailey	W. Montoya	L.A. Jones	S. Lewis	R. Beringson	B. Alexander	J. Talbot	R.R. Andrews	K. Lloyd	H. Maliepaard
1991	R.M. Hopper	J. Kramer	K.L. Cool	W.J. Bailey	W. Montoya	L.A. Jones	S. Lewis	R. Beringson	B. Alexander	J. Talbot	R.R. Andrews	K. Lloyd	H. Maliepaard
1992	R.M. Hopper	J. Kramer	K.L. Cool	W.J. Bailey	W. Montoya	L.A. Jones	S. Lewis	R. Beringson	B. Alexander	J. Talbot	R.R. Andrews	K. Lloyd	D. Sherratt
1993	R.M. Hopper	J. Kramer	T.C. Hinz	W. Sheets	W. Montoya	K. L. Cool	G. Duffy	R. Beringson	V. Bevill	P. Petera	R.R. Andrews	D. Melton	H.M. Hunt
1994	P. Olson	J. Kramer	T.C. Hinz	W. Sheets	W. Montoya	K. L. Cool	G. Duffy	R. Beringson	V. Bevill	P. Petera	R.R. Andrews	D. Melton	D. Sherratt
1995	P. Olson	J. Kramer	T.C. Hinz	W. Sheets	D. Sutcliffe	K. L. Cool	G. Duffy	G. Vandel	V. Bevill	J. Talbot	R.R. Andrews	D. Melton	D. Sherratt
1996	J.K. Ringelman	J. Kramer	T.C. Hinz	W. Sheets	D. Sutcliffe	K. Trego	G. Duffy	G. Vandel	V. Bevill	R. Rothwell	R.R. Andrews	D. Melton	D. Sherratt
1997	J. Lipscomb	J. Kramer	T.C. Hinz	W. Sheets	D. Sutcliffe	K. Trego	G. Duffy	G. Vandel	V. Bevill	W. Wichers	R.R. Andrews	D. Stewart	D. Sherratt
1998	J. Mumma	J. Kramer	T.C. Hinz	K. Nelson	S.R. Gonzales	R. Kreil	G. Duffy	G. Vandel	V. Bevill	W. Wichers	B. Markham	D. Stewart	D. Sherratt
1999	W. Graul	J. Kramer	T.C. Hinz	K. Nelson	B. Hale	R. Kreil	G. Duffy	G. Vandel	V. Bevill	W. Wichers	B. Markham	D. Stewart	D. Sherratt
2000	W. Graul	J. Kramer	J. Herbert	K. Nelson	B. Hale	R. Kreil	R. Hatcher	G. Vandel	V. Bevill	W. Wichers	B. Markham	D. Stewart	D. Sherratt
2001	W. Graul	J. Kramer	J. Herbert	K. Nelson	B. Hale	R. Kreil	R. Hatcher	G. Vandel	V. Bevill	W. Wichers	B. Markham	D. Stewart	D. Sherratt
2002	J. Ver Steeg	J. Kramer	J. Herbert	K. Nelson	L. Rios	R. Kreil	A. Peoples	G. Vandel	V. Bevill	W. Wichers	B. Markham	D. Stewart	D. Sherratt
2003	J. Ver Steeg	J. Kramer	J. Herbert	K. Nelson	L. Rios	R. Kreil	A. Peoples	G. Vandel	V. Bevill	W. Wichers	J. Skrenek	D. Stewart	D. Sherratt
2004	J. Ver Steeg	J. Kramer	J. Herbert	K. Nelson	RJ Kirkpatrick	R. Kreil	A. Peoples	G. Vandel	V. Bevill	W. Wichers	J. Skrenek	D. Stewart	D. Sherratt
2005	J. Ver Steeg	J. Kramer	J. Herbert	K. Nelson	RJ Kirkpatrick	R. Kreil	A. Peoples	G. Vandel	V. Bevill	W. Wichers	J. Skrenek	D. Stewart	H. Hunt
2006	J. Ver Steeg	J. Kramer	J. Herbert	K. Nelson	B. Thompson	R. Kreil	A. Peoples	G. Vandel	V. Bevill	J. Emmerich	R. Millson	S. Fleck	H. Hunt
2007	J. Ver Steeg	J. Kramer	J. Herbert	K. Nelson	B. Thompson	R. Kreil	A. Peoples	G. Vandel	V. Bevill	J. Emmerich	R. Millson	S. Fleck	H. Hunt
2008	J. Ver Steeg	J. Kramer	J. Herbert	K. Nelson	T. Frybarger	R. Kreil	A. Peoples	G. Vandel	V. Bevill	J. Emmerich	J. Allen	S. Fleck	H. Hunt
2009	J. Ver Steeg	J. Kramer	J. Herbert	K. Nelson	J. Lane	R. Kreil	M. O'Melia	T. Leif	V. Bevill	J. Emmerich	J. Allen	S. Fleck	K. Callele
2010	J. Ver Steeg	J. Kramer	J. Herbert	K. Nelson	J. Lane	R. Kreil	M. O'Melia	T. Leif	V. Bevill	J. Emmerich	J. Allen	S. Fleck	L. Saigeon
2011	J. Ver Steeg	J. Kramer	J. Herbert	T. McCoy	J. Lane	R. Kreil	M. O'Melia	T. Leif	D. Morrison	J. Emmerich	J. Allen	S. Fleck	L. Saigeon
2012	J. Ver Steeg	J. Kramer	G. Pauley	T. McCoy	C. Baca	R. Kreil	C. Endicott	T. Leif	D. Morrison	J. Emmerich	J. Allen	L. Yonge	L. Saigeon
2013	J. Ver Steeg	J. Kramer	G. Pauley	S. Taylor	C. Baca	R. Kreil	C. Endicott	T. Leif	D. Morrison	J. Emmerich	J. Allen	L. Yonge	L. Saigeon
2014	J. Ver Steeg	J. Kramer	J. Vore	S. Taylor	C. Baca	R. Kreil	C. Endicott	T. Leif	D. Morrison	S. Smith	J. Allen	L. Yonge	L. Saigeon
2015	J. Ver Steeg	B. Simpson	J. Vore	S. Taylor	S. Liley	J. Williams	C. Endicott	T. Leif	D. Morrison	S. Smith	M. Besko	L. Yonge	L. Saigeon
2016	J. Ver Steeg	J. George	J. Vore	K. Decker	S. Liley	J. Williams	J. Shaw	T. Leif	D. Morrison	S. Smith	M. Besko	L. Yonge	*Vacant*
2017	J. Ver Steeg	J. George	J. Vore	A. Hardin	S. Liley	J. Williams	J. Shaw	T. Leif	D. Morrison	S. Smith	M. Besko	B. Elkin	B. Kirychuk
2018	J. Ver Steeg	J. George	J. Vore	A. Hardin	S. Liley	J. Williams	J. Shaw	T. Leif	D. Morrison	S. Smith	M. Besko	B. Elkin	B. Kirychuk
2019	J. Ver Steeg	J. George	J. Vore	A. Hardin	S. Liley	J. Williams	J. Shaw	T. Leif	S.Oldenburger	A. Bruce	M. Besko	B. Elkin	B. Kirychuk

FILE: S:\MBMO\CF_D\PROJECTS\ADMINISTRATIVE\HISTORIC\CF MEMBERS.XLS

CENTRAL FLYWAY WATERFOWL TECHNICAL COMMITTEE
1954-2019

	CO	KS	MT	NE	NM	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. Gasswint	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. Gasswint	W.G. Freeman	H.W. Miller	L. Lee	C.H. Schroeder	B. Atkins	R. Murdy	J.R. Singleton	R.M. Ballou			
1958	J.R. Grieb	O. Gasswint	W.G. Freeman	H.W. Miller	W.S. Huey	C.H. Schroeder	J.F. Sykora	M.E. Anderson	J.R. Singleton	R.M. Ballou			J.L. Nelson
1959	J.R. Grieb	D.C. Coleman	W.G. Freeman	H.W. Miller	W.S. Huey	C.H. Schroeder	J.F. Sykora	M.E. Anderson	J.R. Singleton	R.M. Ballou			J.L. Nelson
1960	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. Wrakestraw			J.L. Nelson
1961	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. Wrakestraw			J.L. Nelson
1962	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. Wrakestraw			J.L. Nelson
1963	J.R. Grieb	M.D. Schwilling	D.W. Witt	G. Schildman	L. Gordon	C.H. Schroeder	F.F. Copelin	R.D. Hart	A.J. Springs	G.F. Wrakestraw			J.L. Nelson
1964	J.R. Grieb	M.D. Schwilling	D.W. Witt	G. Schildman	G.W. Merrill	C.H. Schroeder	C.O. Gilliam	R.D. Hart	A.J. Springs	G.F. Wrakestraw			R. Caldwell
1965	J.R. Grieb	M.D. Schwilling	D.W. Witt	G. Schildman	G.W. Merrill	C.H. Schroeder	C.O. Gilliam	C. Twedt	A.J. Springs	G.F. Wrakestraw			R. Caldwell
1966	J.R. Grieb	M.D. Schwilling	D.W. Witt	G. Schildman	G.W. Merrill	C.H. Schroeder	C.O. Gilliam	C. Twedt	A.J. Springs	G.F. Wrakestraw	W. Wishart		R. Caldwell
1967	J.R. Grieb	M.D. Schwilling	D.W. Witt	G. Schildman	G.W. Merrill	C.H. Schroeder	C.O. Gilliam	R.C. Drewien	C.D. Stutzenbaker	G.F. Wrakestraw	W. Wishart		R. Caldwell
1968	J.R. Grieb	M.D. Schwilling	D.W. Witt	G. Schildman	G.W. Merrill	C.H. Schroeder	L. Due	R.C. Drewien	C.D. Stutzenbaker	G.F. Wrakestraw	W. Wishart		R. Caldwell
1969	H.D. Funk	M.D. Schwilling	D.W. Witt	G. Schildman	G.W. Merrill	C.H. Schroeder	L. Due	R.C. Drewien	C.D. Stutzenbaker	G.F. Wrakestraw	D. Neave		D.S. Gray
1970	H.D. Funk	M.D. Schwilling	D.W. Witt	G. Schildman	G.W. Merrill	C.H. Schroeder	L. Due	T. Kuck	C.D. Stutzenbaker	G.F. Wrakestraw	D. Neave		D.S. Gray
1971	H.D. Funk	M.D. Schwilling	D.W. Witt	G. Schildman	G.W. Merrill	C.H. Schroeder	L. Due	T. Kuck	C.D. Stutzenbaker	G.F. Wrakestraw	D. Neave		D.S. Gray
1972	H.D. Funk	M.D. Schwilling	J. Egan	G. Schildman	G.W. Merrill	C.H. Schroeder	L. Due	T. Kuck	C.D. Stutzenbaker	G.F. Wrakestraw	D. Neave		D.S. Gray
1973	H.D. Funk	M.D. Schwilling	J. Egan	G. Schildman	J.L. Sands	C.H. Schroeder	L. Due	T. Kuck	C.D. Stutzenbaker	G.F. Wrakestraw	T. Burgess		D.S. Gray
1974	H.D. Funk	M.D. Schwilling	J. Egan	G. Schildman	J.L. Sands	C.H. Schroeder	L. Due	T. Kuck	C.D. Stutzenbaker	G.F. Wrakestraw	H. Weaver		D.S. Gray
1975	H.D. Funk	M.D. Schwilling	D.W. Witt	N. Dey	J.L. Sands	C.H. Schroeder	L. Due	T. Kuck	C.D. Stutzenbaker	G.F. Wrakestraw	H. Weaver		D.S. Gray
1976	H.D. Funk	M.D. Schwilling	D.W. Witt	N. Dey	J.L. Sands	C.H. Schroeder	L. Due	T. Kuck	C.D. Stutzenbaker	G.F. Wrakestraw	H. Weaver		D.S. Gray
1977	H.D. Funk	M.D. Schwilling	D.W. Witt	N. Dey	J.L. Sands	C.H. Schroeder	L. Due	T. Kuck	C.D. Stutzenbaker	G.F. Wrakestraw	H. Weaver		D. Brewster
1978	H.D. Funk	M.J. Kraft	D.W. Witt	N. Dey	J.L. Sands	C.H. Schroeder	L. Due	T. Kuck	C.D. Stutzenbaker	R. Saul	H. Weaver		D. Brewster
1979	H.D. Funk	M.J. Kraft	D.W. Witt	J. Hyland	J.L. Sands	C.H. Schroeder	L. Due	T. Kuck	C.D. Stutzenbaker	R. Saul	H. Weaver		D. Brewster
1980	H.D. Funk	M.J. Kraft	T.C. Hinz	J. Hyland	J.L. Sands	C.H. Schroeder	L. Due	T. Kuck	C.D. Stutzenbaker	R. Saul	H. Weaver		S. Barber
1981	H.D. Funk	M.J. Kraft	T.C. Hinz	J. Hyland	J.L. Sands	C.H. Schroeder	L. Due	T. Kuck	C.D. Stutzenbaker	R. Saul	H. Weaver		M. Killaby
1982	H.D. Funk	M.J. Kraft	T.C. Hinz	J. Hyland	J.L. Sands	M.A. Johnson	L. Due	T. Kuck	C.D. Stutzenbaker	R. Saul	H. Weaver		D. Brewster
1983	H.D. Funk	M.J. Kraft	T.C. Hinz	P. J. Gabig	G. Downer	M.A. Johnson	L. Due	R. Fowler	C.D. Stutzenbaker	R. Saul	H. Weaver		D. Brewster
1984	H.D. Funk	M.J. Kraft	T.C. Hinz	P. J. Gabig	J. Herring	M.A. Johnson	L. Due	S.G. Simpson	C.D. Stutzenbaker	R. Saul	H. Weaver		D. Brewster
1985	H.D. Funk	M.J. Kraft	T.C. Hinz	P. J. Gabig	J. Herring	M.A. Johnson	M.E. O'Meilia	S.G. Simpson	C.D. Stutzenbaker	R. Saul	H. Weaver		D. Brewster
1986	H.D. Funk	M.J. Kraft	T.C. Hinz	P. J. Gabig	J. Herring	M.A. Johnson	M.E. O'Meilia	S.G. Simpson	D.W. Witt	R. Saul	H. Weaver		J. Mulhern
1987	H.D. Funk	M.J. Kraft	T.C. Hinz	P. J. Gabig	G. Schmidt	M.A. Johnson	M.E. O'Meilia	S.G. Simpson	R.L. Jessen	R. Saul	H. Weaver		J. Mulhern
1988	H.D. Funk	M.J. Kraft	T.C. Hinz	P. J. Gabig	J. Ward	M.A. Johnson	M.E. O'Meilia	S.G. Simpson	R.L. Jessen	R. Saul	K. Lungle	R. Bromley	J. Mulhern
1989	H.D. Funk	M.J. Kraft	T.C. Hinz	P. J. Gabig	J. Ward	M.A. Johnson	M.E. O'Meilia	D. Hansen	R.L. Jessen	R. Saul	K. Lungle	R. Bromley	J. Mulhern
1990	H.D. Funk	M.J. Kraft	T.C. Hinz	P. J. Gabig	J. Ward	M.A. Johnson	M.E. O'Meilia	S.J. Vaa	R.L. Jessen	R. Saul	K. Lungle	R. Bromley	J. Mulhern
1991	H.D. Funk	M.J. Kraft	J. Hansen	P. J. Gabig	J. Ward	M.A. Johnson	M.E. O'Meilia	S.J. Vaa	R.L. Jessen	R. Saul	K. Lungle	R. Bromley	J. Mulhern
1992	H.D. Funk	M.J. Kraft	J. Hansen	P. J. Gabig	B. Hale	M.A. Johnson	M.E. O'Meilia	S.J. Vaa	R.L. Jessen	R. Saul	K. Lungle	R. Bromley	J. Mulhern
1993	H.D. Funk	M.J. Kraft	J. Hansen	P. J. Gabig	B. Hale	M.A. Johnson	M.E. O'Meilia	S.J. Vaa	B. Sullivan	R. Saul	K. Lungle	R. Bromley	J. Mulhern
1994	J.K. Ringelman	M.J. Kraft	J. Hansen	P. J. Gabig	B. Hale	M.A. Johnson	M.E. O'Meilia	S.J. Vaa	B. Sullivan	R. Saul	K. Lungle	R. Bromley	J. Mulhern
1995	J.K. Ringelman	M.J. Kraft	J. Hansen	P. J. Gabig	B. Hale	M.A. Johnson	M.E. O'Meilia	S.J. Vaa	B. Sullivan	L. Roberts	K. Lungle	R. Bromley	J. Mulhern
1996	J.K. Ringelman	M.J. Kraft	J. Hansen	P. J. Gabig	B. Hale	M.A. Johnson	M.E. O'Meilia	S.J. Vaa	B. Sullivan	L. Roberts	K. Lungle	R. Bromley	J. Mulhern
1997	J. Gammonley	M.J. Kraft	J. Hansen	P. J. Gabig	T. Mitchusson	M.A. Johnson	M.E. O'Meilia	S.J. Vaa	B. Sullivan	L. Roberts	K. Lungle	R. Case	J. Mulhern
1998	J. Gammonley	M.J. Kraft	J. Hansen	P. J. Gabig	T. Mitchusson	M.A. Johnson	M.E. O'Meilia	S.J. Vaa	B. Sullivan	L. Roberts	K. Lungle	R. Case	D. McKinnon
1999	J. Gammonley	M.J. Kraft	J. Hansen	M. Vrtiska	T. Mitchusson	M.A. Johnson	M.E. O'Meilia	S.J. Vaa	B. Sullivan	L. Roberts	K. Lungle	R. Case	D. McKinnon
2000	J. Gammonley	M.J. Kraft	J. Hansen	M. Vrtiska	T. Mitchusson	M.A. Johnson	M.E. O'Meilia	S.J. Vaa	D. Morrison	L. Roberts	K. Lungle	R. Case	D. McKinnon
2001	J. Gammonley	M.J. Kraft	J. Hansen	M. Vrtiska	T. Mitchusson	M.A. Johnson	M.E. O'Meilia	S.J. Vaa	D. Morrison	L. Roberts	K. Lungle	R. Case	D. McKinnon
2002	J. Gammonley	M.J. Kraft	J. Hansen	M. Vrtiska	T. Mitchusson	M.A. Johnson	M.E. O'Meilia	S.J. Vaa	D. Morrison	L. Roberts	K. Lungle	R. Case	D. McKinnon
2003	J. Gammonley	M.J. Kraft	J. Hansen	M. Vrtiska	T. Mitchusson	M.A. Johnson	M.E. O'Meilia	S.J. Vaa	D. Morrison	L. Roberts		R. Case	D. Brewster
2004	J. Gammonley	M.J. Kraft	J. Hansen	M. Vrtiska	T. Mitchusson	M.A. Johnson	M.E. O'Meilia	S.J. Vaa	D. Morrison	L. Roberts	R. Millson	R. Case	D. Brewster
2005	J. Gammonley	M.J. Kraft	J. Hansen	M. Vrtiska	T. Mitchusson	M.A. Johnson	M.E. O'Meilia	S.J. Vaa	D. Morrison	L. Roberts	R. Millson	R. Case	M. Gollop
2006	J. Gammonley	M.J. Kraft	J. Hansen	M. Vrtiska	T. Mitchusson	M.A. Johnson	M.E. O'Meilia	S.J. Vaa	D. Morrison	L. Roberts	K. Lungle	R. Case	M. Gollop
2007	J. Gammonley	F.M. McNew	J. Hansen	M. Vrtiska	T. Mitchusson	M.A. Johnson	M.E. O'Meilia	S.J. Vaa	D. Morrison	L. Roberts	K. Lungle	R. Case	M. Gollop
2008	J. Gammonley	F.M. McNew	J. Hansen	M. Vrtiska	T. Mitchusson	M.A. Johnson	M.E. O'Meilia	S.J. Vaa	D. Morrison	L. Roberts	K. Lungle		M. Gollop
2009	J. Gammonley	F.M. McNew	J. Hansen	M. Vrtiska	T. Mitchusson	M.A. Johnson	J. Richardson	S.J. Vaa	D. Morrison	L. Roberts	J. Caswell		M. Gollop
2010	J. Gammonley	F.M. McNew	J. Hansen	M. Vrtiska	T. Mitchusson	M.A. Johnson	J. Richardson	S.J. Vaa	D. Morrison	L. Roberts	J. Caswell		M. Gollop
2011	J. Gammonley	F.M. McNew	J. Hansen	M. Vrtiska	B. Hale	M.A. Johnson	J. Richardson	R. Murano	K. Kraai	L. Roberts	J. Caswell	N. McCutchen	M. Gollop
2012	J. Gammonley	T. Bidrowski	J. Hansen	M. Vrtiska	J. Sands	M.A. Johnson	J. Richardson	R. Murano	K. Kraai	L. Roberts	J. Caswell	S. Carrière	M. Gollop
2013	J. Gammonley	T. Bidrowski	J. Hansen	M. Vrtiska	K. Madden	M.A. Johnson	J. Richardson	R. Murano	K. Kraai	L. Roberts	J. Caswell	S. Carrière	M. Gollop
2014	J. Gammonley	T. Bidrowski	J. Hansen	M. Vrtiska	K. Madden	M.A. Johnson	J. Richardson	R. Murano	K. Kraai	L. Roberts	J. Caswell	S. Carrière	K. Conkin
2015	J. Gammonley	T. Bidrowski	J. Hansen	M. Vrtiska	K. Madden	M.A. Johnson	J. Richardson	R. Murano	K. Kraai	L. Roberts	J. Caswell	S. Carrière	K. Conkin
2016	J. Gammonley	T. Bidrowski	J. Hansen	M. Vrtiska	M. Cline	M.L. Szymanski	J. Richardson	R. Murano	K. Kraai	N. Huck	J. Caswell	S. Carrière	K. Conkin
2017	J. Gammonley	T. Bidrowski	J. Hansen	M. Vrtiska	M. Cline	M.L. Szymanski	J. Richardson	R. Murano	K. Kraai	N. Huck	J. Caswell	S. Carrière	K. Conkin
2018	J. Gammonley	T. Bidrowski	J. Hansen	M. Vrtiska	M. Cline	M.L. Szymanski	J. Richardson	R. Murano	K. Kraai	N. Huck	J. Caswell	S. Carrière	K. Conkin
2019	J. Gammonley	T. Bidrowski	J. Hansen	M. Vrtiska	M. Cline	M.L. Szymanski	J. Richardson	R. Murano	K. Kraai	N. Huck	J. Caswell	S. Carrière	K. Conkin

FILE: S:\MBMO\CF_D\PROJECTS\ADMINISTRATIVE\HISTORIC\CF MEMBERS.XLS

CENTRAL FLYWAY WEBLESS MIGRATORY GAME BIRD TECHNICAL COMMITTEE
1966-2019

	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	IA	AR	MO	MN	MB	AB	NWT	SK
1966	J.R. Grieb	M.D. Schwilling	D.W. Witt	G. Childman	G.W. Merrill	C.H. Schroeder	C.O. Gilliam	C. Twedt	A.J. Springs	G.F. Wrakestraw			K. Sadler	E. Kopischke				
1967	H.D. Funk	M.D. Schwilling	D.W. Witt	K. Johnson	G.W. Merrill	C.H. Schroeder	C.O. Gilliam	R.C. Drewien	C.D. Stutzenbaker	G.F. Wrakestraw	G. Klonglan		K. Sadler	E. Kopischke				
1968	H.D. Funk	M.D. Schwilling	D.W. Witt	K. Johnson	G.W. Merrill	C.H. Schroeder	C.O. Gilliam	R.C. Drewien	C.D. Stutzenbaker	G.F. Wrakestraw	R. Bishop		K. Sadler	E. Kopischke				
1969	H.D. Funk	M.D. Schwilling	D.W. Witt	K. Johnson	G.W. Merrill	C.H. Schroeder	L. Due	T. Kuck	C.D. Stutzenbaker	G.F. Wrakestraw	R. Bishop		K. Sadler	E. Kopischke				
1970	H.D. Funk	M.D. Schwilling	D.W. Witt	K. Johnson	G.W. Merrill	C.H. Schroeder	L. Due	T. Kuck	T. L. Clark	G.F. Wrakestraw	R. Bishop		K. Sadler	E. Kopischke				
1971	C.E. Braun	M.D. Schwilling	D.W. Witt	J.T. Sweet	J. L. Sands	C.H. Schroeder	L. Due	T. Kuck	T. L. Clark	G.F. Wrakestraw	R. Bishop		K. Sadler	E. Kopischke				
1972	C.E. Braun	M.D. Schwilling	D.W. Witt	J.T. Sweet	J. L. Sands	C.H. Schroeder	L. Due	T. Kuck	K. E. Gamble	G.F. Wrakestraw	A. Farris		K. Sadler	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. Wrakestraw	A. Farris		K. Sadler	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. Wrakestraw	A. Farris		K. Sadler	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. Wrakestraw	C. Schwartz		K. Sadler	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. Wrakestraw	C. Schwartz		K. Sadler	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. Wrakestraw	R. George		K. Sadler	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. Wrakestraw	R. George		K. Sadler	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. Wrakestraw	R. George		K. Sadler	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. Saul	R. George		K. Sadler	R.L. Jessen				
1981	H.D. Funk	M.J. Kraft	T.C. Hinz	J.T. Sweet	J. L. Sands	C.H. Schroeder	L. Due	T. Kuck	C.D. Stutzenbaker	R. Saul	R. George		K. Sadler	R.L. Jessen				
1982	H.D. Funk	M.J. Kraft	T.C. Hinz	J. Hyland	J. L. Sands	M.A. Johnson	L. Due	T. Kuck	R. George	R. Saul	R. Bishop		K. Sadler	R.L. Jessen				
1983	H.D. Funk	G.J. Horak	T.C. Hinz	J. Hyland	G. Downer	M.A. Johnson	L. Due	T. Kuck	R. George	R. Saul	R. Bishop		K. Sadler	R.L. Jessen				
1984	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		K. Sadler	R.L. Jessen				
1985	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		K. Sadler	R.L. Jessen				
1986	H.D. Funk	G.J. Horak	T.C. Hinz	P.J. Gabig	J. Herring	S.C. Kohn	M.E. O'Meilia	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	S.C. Kohn	M.E. O'Meilia	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	J. Ward	S.C. Kohn	M.E. O'Meilia	S.G. Simpson	R. George	R. Saul	R. Bishop	S. Yaich	D.L. Hallett	T. Eberhardt				
1989	H.D. Funk	G.J. Horak	T.C. Hinz	P.J. Gabig	J. Ward	S.C. Kohn	M.E. O'Meilia	S.G. Simpson	R. George	R. Saul	R. Bishop	S. Yaich	D.L. Hallett	T. Eberhardt				
1990	H.D. Funk	M.J. Kraft	T.C. Hinz	P.J. Gabig	J. Ward	S.C. Kohn	M.E. O'Meilia	S.J. Vaa	R. George	R. Saul	R. Bishop	S. Yaich	J.H. Schulz	T. Eberhardt				
1991	H.D. Funk	M.J. Kraft	J. Hansen	P.J. Gabig	J. Ward	S.C. Kohn	M.E. O'Meilia	S.J. Vaa	R. George	R. Saul	G. Zenner	S. Yaich	J.H. Schulz	A. Berner				
1992	H.D. Funk	M.J. Kraft	J. Hansen	P.J. Gabig	B. Hale	S.C. Kohn	M.E. O'Meilia	S.J. Vaa	R. George	R. Saul	G. Zenner	S. Yaich	J.H. Schulz	A. Berner				
1993	H.D. Funk	M.J. Kraft	J. Hansen	P.J. Gabig	B. Hale	S.C. Kohn	M.E. O'Meilia	S.J. Vaa	J. Roberson	R. Saul	G. Zenner	T. Moser	J.H. Schulz	A. Berner				
1994	J.K. Ringelman	M.J. Kraft	J. Hansen	P.J. Gabig	B. Hale	S.C. Kohn	M.E. O'Meilia	S.J. Vaa	J. Roberson	R. Saul	G. Zenner	T. Moser	J.H. Schulz	A. Berner				
1995	J.K. Ringelman	H. Hands	J. Hansen	P.J. Gabig	B. Hale	S.C. Kohn	M.E. O'Meilia	S.J. Vaa	J. Roberson	L. Roberts	G. Zenner	T. Moser	J.H. Schulz	A. Berner				
1996	J.K. Ringelman	H. Hands	J. Hansen	P.J. Gabig	B. Hale	S.C. Kohn	M.E. O'Meilia	S.J. Vaa	J. Roberson	L. Roberts	G. Zenner	T. Moser	J.H. Schulz	A. Berner	M. Gillespie	K. Lungle	R. Bromley	J. Mulhern
1997	J. Gammonley	H. Hands	J. Hansen	P.J. Gabig	T. Mitchusson	S.C. Kohn	M.E. O'Meilia	S.J. Vaa	J. Roberson	L. Roberts	T. Bogenschutz	T. Moser	J.H. Schulz	A. Berner	M. Gillespie	K. Lungle	R. Bromley	J. Mulhern
1998	J. Gammonley	H. Hands	J. Hansen	P.J. Gabig	T. Mitchusson	S.C. Kohn	M.E. O'Meilia	S.J. Vaa	J. Roberson	L. Roberts	T. Bogenschutz	M. Hill	J.H. Schulz	A. Berner	M. Gillespie	K. Lungle	R. Case	D. McKinnon
1999	J. Gammonley	H. Hands	J. Hansen	S. Taylor	T. Mitchusson	S.C. Kohn	M.E. O'Meilia	S.J. Vaa	J. Roberson	L. Roberts	T. Bogenschutz	M. Hill	J.H. Schulz	A. Berner	M. Gillespie	K. Lungle	R. Case	D. McKinnon
2000 [1]	J. Gammonley	H. Hands	J. Hansen	S. Taylor	T. Mitchusson	S.C. Kohn	M.E. O'Meilia	S.J. Vaa	J. Roberson	L. Roberts						K. Lungle	R. Case	D. McKinnon
2001	J. Gammonley	H. Hands	J. Hansen	S. Taylor	T. Mitchusson	S.C. Kohn	M.E. O'Meilia	S.J. Vaa	J. Roberson	L. Roberts						K. Lungle	R. Case	D. McKinnon
2002	J. Gammonley	H. Hands	J. Hansen	S. Taylor	T. Mitchusson	S.C. Kohn	M.E. O'Meilia	S.J. Vaa	J. Roberson	L. Roberts						K. Lungle	R. Case	D. McKinnon
2003	J. Gammonley	H. Hands	J. Hansen	S. Taylor	T. Mitchusson	S.C. Kohn	M.E. O'Meilia	S.J. Vaa	J. Roberson	L. Roberts							R. Case	D. McKinnon
2004	J. Gammonley	H. Hands	J. Hansen	S. Taylor	T. Mitchusson	S.C. Kohn	M.E. O'Meilia	S.J. Vaa	J. Roberson	L. Roberts						R. Millson	R. Case	D. McKinnon
2005	J. Gammonley	H. Hands	J. Hansen	S. Taylor	T. Mitchusson	M.L. Szymanski	M.E. O'Meilia	S.J. Vaa	J. Roberson	L. Roberts						R. Millson	R. Case	M. Gollop
2006	J. Gammonley	H. Hands	J. Hansen	S. Taylor	T. Mitchusson	M.L. Szymanski	M.E. O'Meilia	S.J. Vaa	J. Roberson	L. Roberts						K. Lungle	R. Case	M. Gollop
2007	J. Gammonley	H. Hands	J. Hansen	J. Lusk	T. Mitchusson	M.L. Szymanski	M.E. O'Meilia	S.J. Vaa	J. Roberson	L. Roberts						K. Lungle	R. Case	M. Gollop
2008	J. Gammonley	H. Hands	J. Hansen	J. Lusk	T. Mitchusson	M.L. Szymanski	M.E. O'Meilia	S.J. Vaa	J. Roberson	L. Roberts						K. Lungle		M. Gollop
2009	J. Gammonley	H. Hands	J. Hansen	J. Lusk	T. Mitchusson	M.L. Szymanski	J. Richardson	S.J. Vaa	C. Mason	L. Roberts						J. Caswell		M. Gollop
2010	J. Gammonley	F.M. McNew	J. Hansen	J. Lusk	T. Mitchusson	M.L. Szymanski	J. Richardson	S.J. Vaa	C. Mason	L. Roberts						J. Caswell		M. Gollop
2011	J. Gammonley	T. Bidrowski	J. Hansen	J. Lusk	B. Hale	M.L. Szymanski	J. Richardson	R. Murano	C. Mason	L. Roberts						J. Caswell	N. McCutchen	M. Gollop
2012	J. Gammonley	T. Bidrowski	J. Hansen	J. Lusk	J. Sands	M.L. Szymanski	J. Richardson	R. Murano	C. Mason	L. Roberts						J. Caswell	S. Carrière	M. Gollop
2013	J. Gammonley	R. Schultheis	J. Hansen	J. Lusk	K. Madden	M.L. Szymanski	J. Richardson	R. Murano	S. Oldenburger	L. Roberts						J. Caswell	S. Carrière	M. Gollop
2014	J. Gammonley	R. Schultheis	J. Hansen	J. Lusk	K. Madden	M.L. Szymanski	J. Richardson	R. Murano	S. Oldenburger	L. Roberts						J. Caswell	S. Carrière	K. Conkin
2015	J. Gammonley	R. Schultheis	J. Hansen	J. Lusk	K. Madden	M.L. Szymanski	J. Richardson	R. Murano	S. Oldenburger	L. Roberts						J. Caswell	S. Carrière	K. Conkin
2016	J. Gammonley	R. Schultheis	J. Hansen	J. Lusk	M. Cline	A. Dinges	J. Richardson	R. Murano	S. Oldenburger	N. Huck						J. Caswell	S. Carrière	K. Conkin
2017	J. Gammonley	R. Schultheis	J. Hansen	J. Lusk	M. Cline	A. Dinges	J. Richardson	R. Murano	S. Oldenburger	N. Huck						J. Caswell	S. Carrière	K. Conkin
2018	J. Gammonley	R. Schultheis	J. Hansen	J. Lusk	M. Cline	A. Dinges	J. Richardson	R. Murano	O. Fitzsimmons	N. Huck						J. Caswell	S. Carrière	K. Conkin
2019	J. Gammonley	R. Schultheis	J. Hansen	J. Laux	M. Cline	A. Dinges	J. Richardson	R. Murano	O. Fitzsimmons	N. Huck						J. Caswell	S. Carrière	K. Conkin

[1] The name and composition of the CMUTC was changed in 1999 to Central Flyway Webless Migratory Game Bird Technical Committee: Voting membership restricted to CF States/Provin

FILE: S:\MBMO\CF_D\PROJECTS\ADMINISTRATIVE\HISTORIC\CF MEMBERS.XLS

CENTRAL MANAGEMENT UNIT DOVE TECHNICAL COMMITTEE
2000-2019

	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	IA	AR	MO	MN
2000	J. Gammonley	H. Hands	J. Hansen	S. Taylor	T. Mitchusson	S. C. Kohn	M.E. O'Meilia	S.J. Vaa	J. Roberson	L. Roberts	T. Bogenschutz		J.H. Schulz	S. Maxon
2001	J. Gammonley	H. Hands	J. Hansen	S. Taylor	T. Mitchusson	S. C. Kohn	M.E. O'Meilia	S.J. Vaa	J. Roberson	L. Roberts	T. Bogenschutz	M. Checkett	J.H. Schulz	S. Maxon
2002	J. Gammonley	H. Hands	J. Hansen	S. Taylor	T. Mitchusson	S. C. Kohn	M.E. O'Meilia	S.J. Vaa	J. Roberson	L. Roberts	T. Bogenschutz	M. Checkett	J.H. Schulz	S. Maxon
2003	J. Gammonley	H. Hands	J. Hansen	S. Taylor	T. Mitchusson	S. C. Kohn	M.E. O'Meilia	S.J. Vaa	J. Roberson	L. Roberts	T. Bogenschutz		J.H. Schulz	S. Maxon
2004	J. Gammonley	H. Hands	J. Hansen	S. Taylor	T. Mitchusson	S. C. Kohn	M.E. O'Meilia	S.J. Vaa	J. Roberson	L. Roberts	T. Bogenschutz	A. James	J.H. Schulz	S. Maxon
2005	J. Gammonley	H. Hands	J. Hansen	S. Taylor	T. Mitchusson	M.L. Szymanski	M.E. O'Meilia	S.J. Vaa	J. Roberson	L. Roberts	T. Bogenschutz	A. James	J.H. Schulz	W. Penning
2006	J. Gammonley	H. Hands	J. Hansen	S. Taylor	T. Mitchusson	M.L. Szymanski	M.E. O'Meilia	S.J. Vaa	J. Roberson	L. Roberts	T. Bogenschutz		J.H. Schulz	W. Penning
2007	J. Gammonley	H. Hands	J. Hansen	J. Lusk	T. Mitchusson	M.L. Szymanski	M.E. O'Meilia	S.J. Vaa	J. Roberson	L. Roberts	T. Bogenschutz	L. Naylor	J.H. Schulz	W. Penning
2008	J. Gammonley	H. Hands	J. Hansen	J. Lusk	T. Mitchusson	M.L. Szymanski	M.E. O'Meilia	S.J. Vaa	J. Roberson	L. Roberts	T. Bogenschutz	L. Naylor	J.H. Schulz	W. Penning
2009	J. Gammonley	H. Hands	J. Hansen	J. Lusk	T. Mitchusson	M.L. Szymanski	J. Richardson	S.J. Vaa	C. Mason	L. Roberts	T. Bogenschutz	L. Naylor	J.H. Schulz	W. Penning
2010	J. Gammonley	F.M. McNew	J. Hansen	J. Lusk	T. Mitchusson	M.L. Szymanski	J. Richardson	S.J. Vaa	C. Mason	L. Roberts	T. Bogenschutz	L. Naylor	J.H. Schulz	W. Penning
2011	J. Gammonley	T. Bidrowski	J. Hansen	J. Lusk	B. Hale	M.L. Szymanski	J. Richardson	R. Murano	C. Mason	L. Roberts	T. Bogenschutz	L. Naylor	J.H. Schulz	W. Penning
2012	J. Gammonley	T. Bidrowski	J. Hansen	J. Lusk	J. Sands	M.L. Szymanski	J. Richardson	R. Murano	C. Mason	L. Roberts	T. Bogenschutz	L. Naylor	J.H. Schulz	S. Cordts
2013	J. Gammonley	R. Schultheis	J. Hansen	J. Lusk	K. Madden	M.L. Szymanski	J. Richardson	R. Murano	S. Oldenburger	L. Roberts	T. Bogenschutz	L. Naylor	R. Bredesen	S. Cordts
2014	J. Gammonley	R. Schultheis	J. Hansen	J. Lusk	K. Madden	M.L. Szymanski	J. Richardson	R. Murano	S. Oldenburger	L. Roberts	T. Bogenschutz	L. Naylor	R. Bredesen	S. Cordts
2015	J. Gammonley	R. Schultheis	J. Hansen	J. Lusk	K. Madden	M.L. Szymanski	J. Richardson	R. Murano	S. Oldenburger	L. Roberts	T. Bogenschutz	L. Naylor	T. Thompson	S. Cordts
2016	J. Gammonley	R. Schultheis	J. Hansen	J. Lusk	M. Cline	A. Dinges	J. Richardson	R. Murano	S. Oldenburger	N. Huck	T. Bogenschutz	L. Naylor	T. Thompson	S. Cordts
2017	J. Gammonley	R. Schultheis	J. Hansen	J. Lusk	M. Cline	A. Dinges	J. Richardson	R. Murano	S. Oldenburger	N. Huck	T. Bogenschutz	C. Jackson	T. Thompson	S. Cordts
2018	J. Gammonley	R. Schultheis	J. Hansen	J. Lusk	M. Cline	A. Dinges	J. Richardson	R. Murano	O. Fitzsimmons	N. Huck	T. Bogenschutz	C. Jackson	T. Thompson	S. Cordts
2019	J. Gammonley	R. Schultheis	J. Hansen	J. Laux	M. Cline	A. Dinges	J. Richardson	R. Murano	O. Fitzsimmons	N. Huck	T. Bogenschutz	C. Jackson	T. Thompson	S. Cordts

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CENTRAL FLYWAY NONGAME MIGRATORY BIRD TECHNICAL COMMITTEE
2006-2019

	CO	KS	MT	NE	NM	ND	OK	SD	TX	WY	AB	SK	NWT	FWS [1,2]
2006	D. Klute	H. Hands	A. Begley	J. Jorgensen	S. Williams	S. Johnson	-	E. Dowd Stukel	D. Schlitter	A. Orabona				S. Jones
2007	D. Klute	H. Hands	A. Begley	J. Jorgensen	H. Walker	S. Johnson	-	E. Dowd Stukel	D. Schlitter	A. Orabona				S. Jones
2008	D. Klute	H. Hands	A. Begley	J. Jorgensen	H. Walker	S. Johnson	-	E. Dowd Stukel	D. Schlitter	A. Orabona				S. Jones
2009	D. Klute	H. Hands	A. Begley	J. Jorgensen	H. Walker	S. Johnson	M. Howery	E. Dowd Stukel	C. Shackelford	A. Orabona				S. Jones
2010	D. Klute	F.M. McNew	C. Wightman	J. Jorgensen	H. Walker	S. Johnson	M. Howery	E. Dowd Stukel	C. Shackelford	A. Orabona				S. Jones
2011	D. Klute	T. Bidrowski	C. Wightman	J. Jorgensen	H. Walker	S. Johnson	M. Howery	E. Dowd Stukel	C. Shackelford	A. Orabona				S. Jones
2012	D. Klute	T. Bidrowski	C. Wightman	J. Jorgensen	H. Walker	S. Johnson	M. Howery	E. Dowd Stukel	C. Shackelford	A. Orabona				S. Jones
2013	D. Klute	R. Schultheis	L. Hanauska-Brown	J. Jorgensen	M. Neal	S. Johnson	M. Howery	E. Dowd Stukel	C. Shackelford	A. Orabona				S. Jones
2014	D. Klute	R. Schultheis	L. Hanauska-Brown	J. Jorgensen	P. Darr	S. Johnson	M. Howery	E. Dowd Stukel	C. Shackelford	A. Orabona				B. Howe
2015	D. Klute	R. Schultheis	A. Begley	J. Jorgensen	P. Darr	S. Johnson	M. Howery	E. Dowd Stukel	C. Shackelford	A. Orabona				D. Krueper
2016 [3]	D. Klute	R. Schultheis	A. Begley	J. Jorgensen	P. Darr	S. Johnson	M. Howery	E. Dowd Stukel	C. Shackelford	A. Orabona	J. Caswell	K. Conkin	S. Carriere	K. Kruse
2017	L. Rossi	D. Riedle	A. Begley	J. Jorgensen	P. Darr	S. Johnson	M. Howery	E. Dowd Stukel	C. Shackelford	A. Orabona	J. Caswell	K. Conkin	S. Carriere	K. Kruse
2018	L. Rossi	D. Riedle	A. Begley	J. Jorgensen	E. Duvuvuei	S. Johnson	M. Howery	E. Dowd Stukel	C. Shackelford	A. Orabona	J. Caswell	K. Conkin	S. Carriere	K. Kruse, S. Somershoe
2019	L. Rossi	D. Riedle	A. Begley	J. Jorgensen	E. Duvuvuei	S. Johnson	M. Howery	E. Dowd Stukel	C. Shackelford	A. Orabona	J. Caswell	K. Conkin	S. Carriere	K. Kruse, S. Somershoe

[1] Nongame Liaison (ex-officio member)
[2] In 2018 changed to Regional Contacts
[3] In 2016 Canadian provinces were incorporated

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Central Flyway Meeting Locations

YEAR	Technical Comm. Working Meeting	Council Spring Meeting	Technical Comm. Spring Meeting	Council and Technical Summer Meeting
1975		Pittsburg, PA	Denver, CO	Oklahoma City, OK
1976		Washington, D.C.	Denver, CO	Sheridan, WY
1977		Atlanta, GA	Denver, CO	Calgary , Alberta
1978		Phoenix, AZ	Kearney, NE	North Platte, NE
1979		Toronto, Canada		Albuquerque, NM
1980		Miami Beach, FL	Port Authur, TX	McCallen, TX
1981			Billings, MT	Billings, MT
1982		Portland, OR	Ft. Collins, CO	Colorado Springs, CO
1983		Kansas City, MO	Ft. Collins, CO	Rapid City, SD
1984	1st meeting	Boston, MA	Wichita, KS	Wichita, KS
1985		Washington, D.C.	Bismarck, ND	Bismarck, ND
1986		Reno, NV	Oklahoma City, OK	Tulsa, OK
1987		Quebec City, Canada	Cheyenne, WY	Cheyenne, WY
1988		Louisville, KY	Port Authur, TX	Calgary , Alberta
1989		Washington, D.C.	Kearney, NE	North Platte, NE
1990		Denver, CO	Albuquerque, NM	Angel Fire, NM
1991	McCallen, TX	Edmonton, Alberta	Lubbock, TX	Corpus Christi, TX
1992		Charlotte, NC	Kearney, NE	Yellowknife, NWT
1993	Billings, MT	Washington, D.C.	Great Falls, MT	Great Falls, MT
1994		Anchorage, AK	Alamosa, CO	Crested Butte, CO
1995	Albuquerque, NM	Minneapolis, MN	Pierre, SD	Custer State Park, SD
1996		Tulsa, OK	Great Bend, KS	Kansas City, MO
1997		Washington, D.C.	Kearney, NE	Cypress Hills, SASK
1998		Orlando, FL	Harlingen, TX	Bismarck, ND
1999		San Francisco, CA	Lawton, OK	Bartlesville, OK
2000		Rosemount, IL	Cody, WY	Memphis, TN
2001		Washington, D.C.	Lethbridge, Alberta	Edmonton, Alberta
2002	Wichita, KS	Dallas, TX	Lincoln, NE	Omaha, NE
2003	Socorro, NM	Winston-Salem, NC	Albuquerque, NM	Santa Fe, NM
2004	Amarillo, TX	Spokane, WA	Corpus Christi, TX	Austin, TX
2005	Amarillo, TX	Arlington, VA	Billings, MT	Helena, MT
2006	Socorro, NM	Columbus, OH	Ft. Collins, CO	Estes Park, CO
2007	Socorro, NM	Portland, OR	Brookings, SD	Spearfish, SD
2008	Socorro, NM	Phoenix, AZ	Great Bend, KS	Kansas City, KS
2009	Socorro, NM	Arlington, VA	Corpus Christi, TX	Bismarck, ND
2010	Socorro, NM	Milwaukee, WI	Tulsa, OK	Norman, OK
2011	Socorro, NM	Kansas City, MO	Laramie, WY	Cody, WY
2012	Amarillo, TX	Atlanta, GA	Grand Island, NE	Canmore, Alberta
2013	Alburquerque, NM	Arlington, VA	Alburquerque, NM	Ruidoso, NM
2014	Amarillo, TX	Denver, CO	Galveston, TX	Kerrville, TX
2015[a]	Corpus Christi, TX	Omaha, NE	Bozeman, MT	Bozeman, MT
2016		Pittsburgh, PA	Colorado Springs, CO	Steamboat Springs, CO
2017		Spokane, WA	Wichita, KS	Manhattan, KS
2018		Norfolk, VA	Wichita, KS	Waskesiu Lake, Saskatchewan
2019		Denver, CO	Port Aransas, TX	Alta, WY

[a] Due to the change in the Federal Regulations cycle (SEIS13), additional TC and Council meeting was held in Denver, CO in Sept.

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Gay Simpson Award

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.

P. Joseph Gabig Award

This award is offered by the Central Flyway Council in memory of Joe Gabig who was tireless in his pursuit of scientifically-based research and management of our nation's migratory game bird resources and their habitats and in his support of sound hunting programs. It is presented to college and university students whose project is conducted wholly or partly in Nebraska and who have demonstrated leadership and/or made a significant contribution to the science of conservation or management of wetlands or migratory game birds or their habitats[1].

	Recipient	Recipient
1990	Kent Luttschwager	
1991	Cathy Henry	
1992	Dr. Charles Dieter	
1993	Lisa Peskin Sausville	
1994	Mark Humpert	
1995	Dr. Rex Johnson	
1996	Dr. Jeff Gleason	
1997	Dr. Dave Naugle	
1998	Dr. Diane Granfors	
1999	Tate Fischer	
2000	Dr. Joshua Stafford	
2001	Shawn May	
2002	Kent Werlin	
2003	Bryan Rieger	
2004	Rachel Mockler	
2005	Kimberly Strand	
2006	Sharon N. Kahara	
2007	Jennifer L. Gutscher	Zach Cunningham, University of Nebraska-Lincoln
2008	Tandi L. Perkins	Ingrid Barcelo, University of Nebraska-Lincoln
2009	Nick Docken	------
2010	Heather N. McWilliams	Scott Groepper, University of Nebraska-Lincoln
2011	------	Todd Buckley, University of Nebraska-Lincoln
2012	Cody Warner	Dustin Casady, University of Nebraska-Kearney
2013	Anna Sidie-Slettedahl	Matt Haugen, University of Nebraska-Lincoln
2014	Adam Janke	-----
2015	Ryann Cressey	-----
2016	Matt Gottlob	-----
2017	Neal Martorelli	Heather Johnson, University of Nebraska-Kearney
2018	Fred Oslund	-----
2019	Charles "Will" Gallman	Matthew Hinrichs, University of Nebraska-Lincoln

[1] Criteria modified in 2018.

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CENTRAL FLYWAY COUNCIL CONSULTANTS TO THE U.S. FISH AND WILDLIFE SERVICE REGULATIONS COMMITTEE

YEAR	CONSULTANT	
1975	Jack R. Grieb (CO)	
1976[1]	Dick Wettersten (KS)	Jack R. Grieb (CO)
1977	William J. Bailey (NE)	Wynn Freeman (MT)
1978	William J. Bailey (NE)	Wynn Freeman (MT)
1979	Ted L. Clark (TX)	Harold Olson (NM)
1980	K.L. Kool (SD)	Jack R. Grieb (CO)
1981	K.L. Kool (SD)	Jack R. Grieb (CO)
1982	K.L. Kool (SD)	Jack R. Grieb (CO)
1983	Charles Schroeder (ND)	Jack R. Grieb (CO)
1984	Charles Schroeder (ND)	Dale Witt (MT)
1985	Steve Lewis (OK)	Dale Witt (MT)
1986	Steve Lewis (OK)	Dale Strickland (WY)
1987	Dale Witt (TX)	Dale Strickland (WY)
1988	Dale Witt (TX)	Dale Strickland (WY)
1989	K.L. Kool (SD)	Arnie Olson (MT)
1990	William J. Bailey (NE)	Bill Montoya (NM)
1991	Robert Jessen (TX)	Bill Montoya (NM)
1992	Robert Jessen (TX)	Ronnie George (TX)
1993	Lloyd Jones (ND)	Tom Hinz (MT)
1994	Vernon Bevill (TX)	Tom Hinz (MT)
1995	Vernon Bevill (TX)	Tom Hinz (MT)
1996	Vernon Bevill (TX)	Tom Hinz (MT)
1997	Vernon Bevill (TX)	Tom Hinz (MT)
1998	Vernon Bevill (TX)	Tom Hinz (MT)
1999	Vernon Bevill (TX)	George Vandel (SD)
2000	Randy Kreil (ND)	George Vandel (SD)
2001	Randy Kreil (ND)	George Vandel (SD)
2002	Randy Kreil (ND)	George Vandel (SD)
2003	Randy Kreil (ND)	George Vandel (SD)
2004	Randy Kreil (ND)	George Vandel (SD)
2005	Randy Kreil (ND)	George Vandel (SD)
2006	Vernon Bevill (TX)	George Vandel (SD)
2007	Vernon Bevill (TX)	Jeffrey Herbert (MT)
2008	Vernon Bevill (TX)	Jeffrey Herbert (MT)
2009	Vernon Bevill (TX)	Jeffrey Herbert (MT)
2010	Jeffrey Herbert (MT)	Michael O'Melia (OK)
2011	Jeffrey Herbert (MT)	Michael O'Melia (OK)
2012	Dave Morrison (TX)	John Emmerich (WY)
2013	Dave Morrison (TX)	--
2014	Dave Morrison (TX)	Cal Baca (NM)
2015	Dave Morrison (TX)	--
2016	Dave Morrison (TX)	Jeff Ver Steeg (CO)
2017	Dave Morrison (TX)	Jeff Ver Steeg (CO)
2018	Dave Morrison (TX)	Jeff Ver Steeg (CO)
2019	Stewart Liley (NM)	Jeff Ver Steeg (CO)

[1] Chairman Wrakestraw also attended meeting

SERVICE REGULATIONS COMMITTEE

U.S. Fish & Wildlife Service

1975-2019

YR	CHAIR	MBM	REGION 1	REGION 2	REGION 3	REGION 4	REGION 5	REGION 6	REGION 7	REGION 8	REGION 9	RESEARCH	ADVISOR
1975	H.K. Nelson	J.P. Rogers/R.I. Smith	R.K. Martinson		J. Hemphill								
1976	H.K. Nelson	J.P. Rogers/R.I. Smith	R.K. Martinson		J. Hemphill								
1977	H.K. Nelson	J.P. Rogers/R.I. Smith	R.K. Martinson		J. Hemphill								
1978	H.K. Nelson	J.P. Rogers/R.I. Smith	R.K. Martinson										
1979	H.K. Nelson	R.I. Smith	R.K. Martinson										
1980	J.P. Rogers	J.P. Rogers	R.K. Martinson		H.K. Nelson						R. Myshak/R.N. Smith		
1981	R.E. Gilmore	J.P. Rogers	R.K. Martinson		H.K. Nelson						R.E. Lambertson		
1982	R. Putz	J.P. Rogers			H.K. Nelson	J.W. Pulliam					R.E. Lambertson		
1983	J.P. Rogers	J.P. Rogers			H. Benson	J.W. Pulliam					R.E. Lambertson		
1984	J.P. Rogers	J.P. Rogers			H.K. Nelson	J.W. Pulliam					R.E. Lambertson	R.N. Smith	
1985	R. Lambertson	R.D. Sparrowe			H.K. Nelson	J.W. Pulliam						R.N. Smith	
1986	R. Lambertson	R.D. Sparrowe			H.K. Nelson	J.W. Pulliam						R.N. Smith	
1987	H.K. Nelson	R.D. Sparrowe	R.L. Wallenstrom			J.W. Pulliam		G.L. Butterbaugh				R.N. Smith	
1988	H.K. Nelson	R.D. Sparrowe	R.L. Wallenstrom [1]	M. Spear [1]	J.C. Gritman	J.W. Pulliam		G.L. Butterbaugh	W. Steiglitz [1]		M. Plenert	R.N. Smith	
1989	M. Plenert	B.K. Williams		M. Spear	J.C. Gritman	J.W. Pulliam		G.L. Butterbaugh	W. Steiglitz			R.N. Smith	
1990	M. Plenert/D. Olsen	T.J. Dwyer			J.C. Gritman	J.W. Pulliam		G.L. Butterbaugh	W. Steiglitz			R.N. Smith	
1991	D. Olsen	T.J. Dwyer			J.C. Gritman	J.W. Pulliam		G.L. Butterbaugh	W. Steiglitz				
1992	D. Olsen	T.J. Dwyer			J.S. Marler		R.E. Lambertson	R.O. Morgenweck	W. Steiglitz			D. Buffington	
1993	D. Olsen	P.R. Schmidt	M. Plenert	J.G. Rogers	J.S. Marler		R.E. Lambertson	R.O. Morgenweck				D. Buffington	
1994	W.F. Hartwig	P.R. Schmidt	M. Plenert	J.G. Rogers	J.S. Marler		R.E. Lambertson						
1995	R.G. Streeter	P.R. Schmidt		N. Kaufman		N. Clough	R.E. Lambertson		D.B. Allen				
1996	R.G. Streeter	P.R. Schmidt		N. Kaufman		N. Clough		R.O. Morgenweck	D.B. Allen				
1997	R.G. Streeter	P.R. Schmidt		N. Kaufman	W.F. Hartwig [1]	N. Clough [1]		R.O. Morgenweck	D.B. Allen				
1998	J.G. Rogers/D. Ashe	P.R. Schmidt		N. Kaufman	W.F. Hartwig			R.O. Morgenweck	D.B. Allen				
1999	D. Ashe	R. West/J. Andrew	A. Badgely		W.F. Hartwig		R.E. Lambertson	R.O. Morgenweck					
2000	D. Ashe/T.O. Melius	J. Andrew		N. Kaufman [1]	W.F. Hartwig	S.D. Hamilton			D.B. Allen [1]				
2001	T.O. Melius	J. Andrew		N. Kaufman	W.F. Hartwig	S.D. Hamilton			D.B. Allen				
2002	T.O. Melius	J. Andrew/R.J. Blohm				S.D. Hamilton	M. Parker	R.O. Morgenweck	D.B. Allen				
2003	P.R. Schmidt	B.A. Millsap				S.D. Hamilton	M. Parker	R.O. Morgenweck	D.B. Allen				
2004	P.R. Schmidt	B.A. Millsap					M. Moriarity	R.O. Morgenweck	R. Gould				
2005	P.R. Schmidt	B.A. Millsap			R. Thorson		M. Moriarity	R.O. Morgenweck	R. Gould				
2006	P.R. Schmidt	B.A. Millsap	D.B. Allen		R. Thorson		M. Moriarity		T.O. Melius				R.O. Morgenweck
2007	P.R. Schmidt	R.J. Blohm		B. Tuggle	R. Thorson		M. Moriarity			S. Thompson			R.O. Morgenweck
2008	P.R. Schmidt	R.J. Blohm		B. Tuggle	R. Thorson	S.D. Hamilton			T.O. Melius				R.O. Morgenweck
2009	P.R. Schmidt	R.J. Blohm		B. Tuggle	T.O. Melius	S.D. Hamilton			G. Haskett				R.O. Morgenweck
2010	P.R. Schmidt	R.J. Blohm			T.O. Melius		M. Moriarity	S. Guertin	G. Haskett				R.O. Morgenweck
2011	T.O. Melius/J. Ford	J.B. Bortner			T.O. Melius		M. Moriarity	S. Guertin	G. Haskett				R.O. Morgenweck
2012	J. Ford	J.B. Bortner			T.O. Melius		W. Weber	S. Guertin	G. Haskett				
2013	J. Ford	J.B. Bortner		B. Tuggle	T.O. Melius		W. Weber		G. Haskett				
2014	J. Ford	J.B. Bortner		B. Tuggle		C. Dohner	W. Weber			R. Lohoefener			
2015	J. Ford	J.B. Bortner		B. Tuggle		C. Dohner	W. Weber			R. Lohoefener			
2016	J. Ford	J.B. Bortner	R. Thorson	B. Tuggle		C. Dohner				R. Lohoefener			
2017	J. Ford	J.B. Bortner	R. Thorson		T.O. Melius	C. Dohner/M. Oetker		M. Hogan [2]					
2018	J. Ford	K.D. Richkus	R. Thorson		C. Wooley [2]			M. Hogan [2]	G. Siekaniec				
2019	J. Ford	K.D. Richkus			C. Wooley [2]		W. Weber	M. Hogan [2]	G. Siekaniec				

[1] Partial Year

[2] Deputy Regional Director

1987-present - Chief, Division of Migratory Bird Management serves as non-voting Executive Secretary

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USFWS FLYWAY REPRESENTATIVES
1949-2019

	ATLANTIC FLYWAY	MISSISSIPPI FLYWAY	CENTRAL FLYWAY	PACIFIC FLYWAY
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
2007	Paul I. Padding	James R. Kelley	David E. Sharp	Robert E. Trost
2008	Paul I. Padding	James R. Kelley	David E. Sharp	Robert E. Trost
2009	Paul I. Padding	James R. Kelley	David E. Sharp	Robert E. Trost
2010	Paul I. Padding	James R. Kelley	David E. Sharp	Robert E. Trost
2011	Paul I. Padding	James R. Kelley	James A. Dubovsky	Robert E. Trost
2012	Paul I. Padding	James R. Kelley	James A. Dubovsky	Robert E. Trost
2013	Paul I. Padding	James R. Kelley	James A. Dubovsky	Robert E. Trost
2014	Paul I. Padding	James R. Kelley	James A. Dubovsky	Todd A. Sanders
2015	Paul I. Padding	James R. Kelley	James A. Dubovsky	Todd A. Sanders
2016	Paul I. Padding	James R. Kelley	James A. Dubovsky	Todd A. Sanders
2017	Paul I. Padding	James R. Kelley	James A. Dubovsky	Todd A. Sanders
2018	Paul I. Padding	James R. Kelley	James A. Dubovsky	Todd A. Sanders
2019	Paul I. Padding	T. Cooper (acting)	James A. Dubovsky	Todd A. Sanders

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FWS REGIONAL[a] MIGRATORY BIRD COORDINATORS/CHIEFS[b]

YEAR	REGION 1 *	REGION 2 *	REGION 3 *	REGION 4 *	REGION 5 *	REGION 6 *	REGION 7 *	REGION 8*
1973			John W. Ellis		William French			
1974			John W. Ellis		William French			
1975			John W. Ellis	Donald H. Orr	William French			
1976	James Monnie	Larry Smith	John W. Ellis	Donald H. Orr	William French	Robert L. Croft	James C. Bartonek	
1977	James Monnie	Larry Smith	John W. Ellis	Donald H. Orr	William French	Robert L. Croft	James C. Bartonek	
1978	James Monnie	Larry Smith	John W. Ellis	Donald H. Orr	William French	Robert L. Croft	Wilbur N. Ladd	
1979	Richard Bauer	Larry Smith	John W. Ellis	Donald H. Orr	William French	Robert L. Croft	Wilbur N. Ladd	
1980	Richard Bauer	Larry Smith	John W. Ellis	Donald H. Orr	William French	Robert L. Croft	*vacant*	
1981	Richard Bauer	Larry Smith	John W. Ellis	Donald H. Orr	William French	Robert L. Croft	E. Frank Bowers	
1982	Richard Bauer	Larry Smith	John W. Ellis	Donald H. Orr	William French	Robert L. Croft	Dirk V. Derksen	
1983	Richard Bauer	Larry Smith	John W. Ellis	Donald H. Orr	*vacant*	Robert L. Croft	Dirk V. Derksen	
1984	Richard Bauer	Larry Smith	John W. Ellis	E. Frank Bowers	George Haas	Robert L. Croft	Dirk V. Derksen	
1985	Richard Bauer	Jeffrey Haskins	John W. Ellis	E. Frank Bowers	George Haas	Robert L. Croft	Richard S. Pospahala	
1986	Richard Bauer	Jeffrey Haskins	Robert O. Oetting	E. Frank Bowers	George Haas	Robert L. Croft	Richard S. Pospahala	
1987	Richard Bauer	Jeffrey Haskins	Robert O. Oetting	E. Frank Bowers	George Haas	Wilbur N. Ladd	*vacant*	
1988	Richard Bauer	Jeffrey Haskins	Stephen D. Wilds	E. Frank Bowers	George Haas	John E. Cornely	*vacant*	
1989	Richard Bauer	Jeffrey Haskins	Stephen D. Wilds	E. Frank Bowers	George Haas	John E. Cornely	*vacant*	
1990	Richard Bauer	Jeffrey Haskins	Stephen D. Wilds	E. Frank Bowers	George Haas	John E. Cornely	Robin L. West	
1991	Richard Bauer	Jeffrey Haskins	Stephen D. Wilds	E. Frank Bowers	George Haas	John E. Cornely	Robin L. West	
1992	Richard Bauer	Jeffrey Haskins	Stephen D. Wilds	E. Frank Bowers	George Haas	John E. Cornely	Robin L. West	
1993	J. Bradley Bortner	Jeffrey Haskins	Stephen D. Wilds	E. Frank Bowers	George Haas	John E. Cornely	Robin L. West	
1994	J. Bradley Bortner	Jeffrey Haskins	Stephen D. Wilds	E. Frank Bowers	George Haas	John E. Cornely	Robin L. West	
1995	J. Bradley Bortner	Jeffrey Haskins	Stephen D. Wilds	E. Frank Bowers	George Haas	John E. Cornely	Robert R. Leedy	
1996	J. Bradley Bortner	Jeffrey Haskins	Stephen D. Wilds	E. Frank Bowers	George Haas	John E. Cornely	Robert R. Leedy	
1997	J. Bradley Bortner	Jeffrey Haskins	Stephen D. Wilds	E. Frank Bowers	George Haas	John E. Cornely	Robert R. Leedy	
1998	J. Bradley Bortner	Jeffrey Haskins	Stephen D. Wilds	E. Frank Bowers	George Haas	John E. Cornely	Robert R. Leedy	
1999	J. Bradley Bortner	Jeffrey Haskins	Stephen D. Wilds	E. Frank Bowers	George Haas	John E. Cornely	Robert R. Leedy	
2000	J. Bradley Bortner	Jeffrey Haskins	Stephen D. Wilds	E. Frank Bowers	George Haas	John E. Cornely	Robert R. Leedy	
2001	J. Bradley Bortner	Jeffrey Haskins	Stephen D. Wilds	E. Frank Bowers	George Haas	John E. Cornely	Robert R. Leedy	
2002	J. Bradley Bortner	Jeffrey Haskins	Stephen D. Wilds	E. Frank Bowers	George Haas	John E. Cornely	Robert R. Leedy	
2003	J. Bradley Bortner	Jeffrey Haskins	Stephen D. Wilds	E. Frank Bowers	George Haas	John E. Cornely	Robert R. Leedy	
2004	J. Bradley Bortner	Jeffrey Haskins	Stephen D. Wilds	E. Frank Bowers	George Haas	John E. Cornely	Robert R. Leedy	
2005	J. Bradley Bortner	Jeffrey Haskins	Stephen D. Wilds	David Viker	Diane Pence	John E. Cornely	Robert R. Leedy	
2006	J. Bradley Bortner	Jeffrey Haskins	Stephen D. Wilds	David Viker	Diane Pence	John E. Cornely	Russ Oates	
2007	J. Bradley Bortner	Jeffrey Haskins	*vacant*	David Viker	Diane Pence	James A. Dubovsky	Russ Oates	
2008	J. Bradley Bortner	Jeffrey Haskins	Jane West	David Viker	Diane Pence	James A. Dubovsky	Russ Oates	
2009	J. Bradley Bortner	Jeffrey Haskins	Jane West	David Viker	Diane Pence	James A. Dubovsky	Russ Oates	Marie E. Strassburger
2010	J. Bradley Bortner	Jeffrey Haskins	Jane West	David Viker	Diane Pence	James A. Dubovsky	Russ Oates	Marie E. Strassburger
2011	J. Bradley Bortner	Jeffrey Haskins	Jane West	*vacant*	Sherry Morgan	Casey Stemler	Russ Oates	Marie E. Strassburger
2012	Nanette Seto	Jeffrey Haskins	Jane West	Emily Jo Williams	Sherry Morgan	Casey Stemler	Russ Oates	Marie E. Strassburger
2013	Nanette Seto	Greg Hughes	Jane West	Emily Jo Williams	Sherry Morgan	Casey Stemler	Eric Taylor	Marie E. Strassburger
2014	Nanette Seto	Greg Hughes	Barb Jones	Emily Jo Williams	Pam Toschik	Casey Stemler	Eric Taylor	Marie E. Strassburger
2015	Nanette Seto	Greg Hughes	Tom Cooper	Laurel Barnhill	Pam Toschik	Casey Stemler	Eric Taylor	*vacant*
2016	Nanette Seto	Greg Hughes	Tom Cooper	Laurel Barnhill	Pam Toschik	Casey Stemler	Eric Taylor	*vacant*
2017	Nanette Seto	Scott Carleton	Tom Cooper	Laurel Barnhill	Pam Toschik	Casey Stemler	Eric Taylor	Amedee Brickey
2018	Nanette Seto	Scott Carleton	Tom Cooper	Laurel Barnhill	Pam Toschik	Brian Smith	Eric Taylor	Amedee Brickey
2019	Nanette Seto	Scott Carleton	Tom Cooper	Laurel Barnhill	Pam Toschik	Brian Smith	Eric Taylor	Amedee Brickey

[a] FWS REGIONS: Portland (1), Albuquerque (2), Minneapolis (3), Atlanta (4), Hadley (5), Denver (6), Anchorage (7), Sacramento (8)

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