CENTRAL FLYWAY

MID-WINTER SURVEY

RESULTS

2015

Compiled by:

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To: Central Flyway Council and Central Flyway Waterfowl Technical Committee

Re: January 2015 Mid-Winter Waterfowl Survey

The Central Flyway's January 2015 Mid-Winter Waterfowl Survey was completed during the January 5-9 period in most portions of the Central Flyway. Throughout the Flyway, conditions in the fall were reported as normal with good food availability and improved wetland conditions in the southern and mid-latitude states. All states were affected by a severe cold front that swept through in November and resulted in the "grand passage" (as reported by M. Szymanski) of waterfowl out of the northern states and Canada down to the mid-latitude and southern states.

The overall waterfowl count for 2015 was 4% higher than in 2014. The overall duck count was 2% lower and the overall goose count was 11% higher than the previous year. The duck decrease was mainly a result of a decrease in the dabblers (7%) even though the mallard count increased by 4%. All geese species increased this year with white-fronted geese showing the largest increase (156%). The 2015 survey was 7% and 8% higher than the 2010-2014 average and the 2000-2009 average waterfowl counts, respectively.

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JANUARY 2015 MID-WINTER WATERFOWL SURVEY - CENTRAL FLYWAY [1]

SPECIES	ND	MT	SD	WY	CO	NE	KS	OK	NM	TX	TOTAL
Mallard	26,558	16,580	83,581	51,387	92,663	221,097	269,723	271,875	41,026	586,048	1,660,538
Black Duck											0
Mottled Duck										15,988	15,988
Gadwall			2	875	301		2,509	6,619	2,138	823,232	835,676
Wigeon				1,089	256	141	1,360	2,135	10,743	212,510	228,234
G-W Teal				451	565	136	1,238	9,001	24,687	270,783	306,861
BW/CIN Teal							25	23	8	26,822	26,878
Shoveler				2	1,332	4	473	574	2,578	156,993	161,956
Pintail			1	206	101	12	1,927	1,360	140,361	398,808	542,776
Wood Duck	5		2	48	23	7	58	586	7	57,163	57,899
Whistling Duck										0	0
Total Dabblers	26,563	16,580	83,586	54,058	95,241	221,397	277,313	292,173	221,548	2,548,347	3,836,806
Redhead				15	269	56	243	238	532	430,737	432,090
Canvasback				2	39	1	252	262	132	12,685	13,373
Scaup			6	41	171	13	156	1,133	20	142,246	143,786
Ringneck				71	261	18	516	1,557	461	362,979	365,863
Goldeneye	107	3,690	106	9,358	449	107	4,372	1,440	195	13,747	33,571
Bufflehead	3	25	16	51	243	8	687	1,302	248	32,141	34,724
Ruddy Duck							17	34	120	0	171
Total Divers	110	3,715	128	9,538	1,432	203	6,243	5,966	1,708	994,535	1,023,578
Scoters											0
Long-tailed Ducks	1						6				7
Mergansers	127	190	2,644	1,276	939	9,470	25,999	17,298	6,229	16,497	80,669
Unident. Ducks					2,788		8,070	1,466	91	432,034	444,449
Total Ducks	**26,801**	**20,485**	**86,358**	**64,872**	**100,400**	**231,070**	**317,631**	**316,903**	**229,576**	**3,991,413**	**5,385,509**
Brant											0
Snow/Blue Goose				1	61,283	18	405,149	89,807	69,373	657,403	1,283,034
Ross's Goose								9,121			9,121
Whitefront						16	2,706	1,538		65,006	69,266
Canada Goose	119,006	117,680	85,356	37,777	131,676	238,685	287,843	262,868	26,475	506,435	1,813,801
Total Geese	**119,006**	**117,680**	**85,356**	**37,778**	**192,959**	**238,719**	**695,698**	**363,334**	**95,848**	**1,228,844**	**3,175,222**
Tundra Swan					1		21	2			24
Trumpeter Swan			35	47		692	8				782
Mute Swan					3						3
Unident. Swans							82	9		0	91
Total Swans	**0**	**0**	**35**	**47**	**4**	**692**	**111**	**11**	**0**	**0**	**900**
Coot		350		693	1,326	11	1,212	601	8,049	191,664	203,906
Grand Total	**145,807**	**138,515**	**171,749**	**103,390**	**294,689**	**470,492**	**1,014,652**	**680,849**	**333,473**	**5,411,921**	**8,765,537**

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*In TX, SGPand TGP 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).

RESULTS OF 2015 WINTER GOOSE SURVEYS IN THE CENTRAL FLYWAY[1]

January 2015 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	111,883	5,797						117,680				117,680
No. Dakota					119,006			119,006				119,006
So. Dakota			1,300	5,200	78,856			85,356				85,356
Wyoming	22,858	1,535				13,384		37,777	1			37,778
Nebraska	1,769		200		236,716			238,685	1	17	16	238,719
Colorado	95,574	36,102						131,676	61,283			192,959
Kansas			3,290	10,000	12,825		261,728	287,843		405,149	2,706	695,698
N. Mexico	6,760	19,054					661	26,475	69,373			95,848
Oklahoma			254,425		8,443			262,868		98,928	1,538	363,334
Texas		485,212	21,223					506,435	112,595	544,808	65,006	1,228,844

*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		
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.

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

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

YEAR	FALL SURVEY [1]	WINTER SURVEY [2] MISSISSIPPI FLYWAY	CENTRAL FLYWAY	MEXICO	TOTAL
1969/70		50,600	22,070	18,800	91,470
1970/71		39,300	21,144		60,444
1971/72		45,800	32,142		77,942
1972/73		43,000	29,665		72,665
1973/74		43,200	49,463		92,663
1974/75		40,400	39,510	46,100	126,010
1975/76		53,400	54,800		108,200
1976/77		50,400	29,590	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	681,697	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		455,248
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	658,250	305,179	122,701	13,604	427,880
2010/11 - 2012/13	723,135	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	13,605	350,473

POPULATION OBJECTIVES:

600,000 (3-yr ave.)

REGULATORY THRESHOLDS:

LOWER	500,000
UPPER	800,000

03/20/15

[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 average only contains 2 years since the 2013 survey was not completed.

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

YR	CF ARCTIC NESTING GEESE WEST TIER CFAN [3]	CF ARCTIC NESTING GEESE EAST 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	No data before 2014, see historic SGP and TGP results in CF MWS report 2013.		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
3-YEAR AVERAGES:							
1978/79 - 80/81	No data before 2014, see historic SGP and TGP results in CF MWS report 2013.		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
POPULATION OBJECTIVES:	150,000	250,000	80,000	SPRING 17,000 pr(WP) 25,000 pr(GP)			SPRING 300,000
REGULATORY THRESHOLDS:				150,000 285,000			SPRING 260,000 340,000

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[1] Column entries reflect official December surveys (when available) from 1969/70 to 1997/98. December surveys and the separation o 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. 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.

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	NS	284,446	775,650	1,977,793	2,753,443
2010	238,084	NS	238,084	618,794	2,038,686	2,657,480
2011	196,013	NS	196,013	1,058,853	2,116,340	3,175,193
2012	205,331	NS	205,331	616,427	3,404,795	4,021,222
2013	225,936	NS	225,936	1,125,582	3,488,405	4,613,987
2014	264,836	NS	264,836	959,798	2,854,885	3,814,683
2015	243,253		243,253	1,048,902	2,235,150	3,284,052
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
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.

Central/Mississippi Light Goose Mid-winter Survey[1,2,3]

	Mid-Continent Population																						Western Central Flyway Population								
	Mississippi Flyway															Central Flyway															
Year	MN	WI	MI	IA	IL	IN	OH	MO	KY	AR	TN	LA	MS	AL	MF SUB-TOTAL	ND	SD	NE	KS	OK	TX	CF SUB-TOTAL	M-C TOTAL	CO	NM	OK	TX	NE	WY	MT	WCF TOTAL	MCP + WCFP Total
1970	0	0	100	13,600	13,700	4,200	TR	50,200	2,000	0	500	338,800	25	1,500	424,625	0	9	0	40,536	30	311,815	352,390	777,015	0	6,925	0	0				6,925	783,940
1971	0	0	0	88,400	10,100	800	300	133,100	700	0	200	419,400	200	1,700	654,900	0	0	0	20,672	726	393,856	415,254	1,070,154	0	11,140	0	0				11,140	1,081,294
1972	0	0	0	379,200	10,200	1,300	200	137,700	500	0	0	407,100	0	1,100	937,300	0	5	45	75,407	29	300,608	376,094	1,313,394	0	13,011	0	0				13,011	1,326,405
1973	0	0	0	2,600	4,500	0	0	115,300	1,200	1,500	0	406,400	0	800	532,300	0	0	250	64,587	15,590	412,538	492,965	1,025,265	0	11,579	0	0	0	0	0	11,579	1,036,844
1974	0	0	0	41,000	14,500	200	500	112,400	3,600	1,000	600	357,000	100	1,400	532,300	0	15	5,007	185,339	9,346	457,800	657,507	1,189,807	0	16,200	0	0	0	0	0	16,200	1,206,007
1975	0	0	0	9,000	7,500	200	0	30,100	4,500	4,300	500	384,400	100	900	441,500	0	0	1,500	84,600	1,000	567,980	655,080	1,096,580	0	26,100	0	320	0	0	0	26,420	1,123,000
1976	25	0	0	52,600	7,700	200	0	189,800	3,500	400	200	435,600	300	1,300	691,625	0	0	34,000	17,648	8,863	810,219	870,730	1,562,355	0	22,944	0	220	0	0	0	23,164	1,585,519
1977	25	0	0	31,000	500	0	0	126,100	5,000	3,700	400	403,100	25	1,500	571,350	0	0	5	21,180	11,235	546,520	578,940	1,150,290	0	33,340	0	300	0	0	0	33,640	1,183,930
1978	0	0	0	80,000	3,100	0	0	274,200	15,000	7,600	800	412,400	25	1,000	794,125	0	2	0	27,600	15,900	1,128,750	1,172,252	1,966,377	0	30,400	0	650	0	0	0	31,050	1,997,427
1979	25	0	25	70,000	30,200	200	0	53,400	6,000	1,300	300	350,600	0	1,000	513,050	1,160	122	1	170,940	21,500	578,900	772,623	1,285,673	7	28,154	0	0	0	0	0	28,161	1,313,834
1980	0	0	25	119,900	16,600	25	0	55,800	5,000	20,800	200	373,800	25	2,100	594,275	0	500	10,000	35,800	9,900	747,601	803,801	1,398,076	350	28,100	0	1,999	0	0	0	30,449	1,428,525
1981	25	0	25	136,200	14,200	100	0	34,400	6,000	5,100	300	305,400	1,000	1,900	504,650	0	630	27,000	14,700	22,000	837,713	902,043	1,406,693	364	36,200	0	987	0	0	0	37,551	1,444,244
1982	25	0	0	215,000	11,800	25	0	296,900	800	37,100	200	305,000	300	1,200	868,350	0	200	25,000	14,900	14,278	871,327	925,705	1,794,055	128	49,004	0	873	0	0	0	50,005	1,844,060
1983	25	0	0	218,500	21,100	200	0	167,200	4,000	75,300	300	342,400	1,200	1,900	832,125	0	370	60,000	33,350	22,020	807,600	923,340	1,755,465	1,803	71,485	0	2,800	14	0	0	76,102	1,831,567
1984	50	25	0	65,600	0	0	25	121,400	5,700	89,100	200	304,500	400	2,000	589,000	0	41	30	54,754	29,413	821,300	905,538	1,494,538	302	40,536	0	2,200	0	0	0	43,038	1,537,576
1985	25	25	0	311,000	4,300	25	25	118,600	6,000	153,500	300	397,300	25	1,700	992,825	0	0	9,800	26,600	22,120	921,700	980,220	1,973,045	8,265	53,240	0	1,400	0	0	0	62,905	2,035,950
1986	0	0	0	100	17,300	25	25	44,800	8,000	149,600	100	389,000	1,500	1,300	611,750	0	0	0	8,111	56,700	772,800	837,611	1,449,361	2,417	93,174	200	800	0	0	0	96,591	1,545,952
1987	25	25	0	213,600	6,200	0	0	311,200	9,000	110,900	25	358,600	100	3,700	1,013,375	0	17	51,597	24,853	28,570	795,400	900,437	1,913,812	32,900	29,245	0	1,400	0	0	0	63,545	1,977,357
1988	100	25	25	198,300	4,000	100	100	273,100	6,600	166,200	200	363,600	25	2,400	1,014,775	0	6,739	77,507	14,282	15,794	621,600	735,922	1,750,697	5,540	37,777	0	2,900	0	0	0	46,217	1,796,914
1989	25	25	0	450,100	8,200	25	25	112,300	10,400	272,400	500	498,500	2,100	3,500	1,358,100	12	263	6,045	24,622	17,714	549,476	598,132	1,956,232	14,217	53,420	0	0	0	0	0	67,637	2,023,869
1990	107	1	0	186,181	13,432	1	40	86,720	15,000	211,800	500	546,200	500	2,500	1,062,982	0	2,500	0	33,520	22,922	602,360	661,302	1,724,284	9,720	28,526	0	440	0	0	0	38,686	1,762,970
1991	52	1	0	266,952	21,150	0	36	328,550	9,801	257,982	68	449,600	263	1,415	1,335,870	5	14,440	51,050	36,641	22,394	675,350	799,880	2,135,750	35,984	58,939	0	9,700	0	1	0	104,624	2,240,374
1992	18	2	0	70,203	4,400	58	64	201,075	12,037	461,772	21	362,325	12	1,504	1,113,491	8	32	8	58,578	17,691	832,056	908,373	2,021,864	17,500	53,193	40	17,148	0	0	4	87,885	2,109,749
1993	25	0	0	124,101	5,550	19	83	156,450	2	279,710	3	280,300	231	1,657	848,131	0	252	0	182,904	17,570	695,225	895,951	1,744,082	357	39,273	0	5,515	0	0	0	45,145	1,789,227
1994	38	2	-	23,613	1,150	0	378	170,805	4	385,135	19	599,100	4,801	601	1,185,646	5	4	0	37,308	22,109	955,743	1,015,169	2,200,815	21,626	45,336	0	17,912	0	0	0	84,874	2,285,689
1995	28	0	0	300	2,725	0	75	360,051	8,018	415,075	39	705,500	27,404	2,517	1,521,732	1	25	28	176,782	22,943	1,003,581	1,203,360	2,725,092	23,829	56,298	0	0	0	0	0	80,127	2,805,219
1996	31	-	0	43	9,225	0	20	293,890	27,001	317,770	47	898,164	15,008	1,314	1,562,513	0	5	167	75,050	24,404	735,939	835,565	2,398,078	33,692	41,399	0	17,963	0	0	0	93,054	2,491,132
1997	27	-	0	26,016	69,300	0	74	559,815	7,000	404,691	116	654,301	25,083	2,657	1,749,080	0	0	300	72,042	24,754	1,111,510	1,208,606	2,957,686	72,852	38,745	0	15,387	0	188	0	127,172	3,084,858
1998	25	2	0	125,520	4,685	4	0	214,650	5	327,528	31	1,240,980	47,509	2,604	1,963,543	7	12,560	28,006	171,390	1,850	844,872	1,058,685	3,022,228	55,782	31,689	0	16,047	0	3	1	103,522	3,125,750
1999	27	1	0	11	17,340	15	124	161,083	41,501	358,767	1,766	844,057	33,841	2,809	1,461,342	0	2	0	49,335	35,321	1,029,726	1,114,384	2,575,726	28,717	51,078	0	156,569	0	1	0	236,365	2,812,091
2000	3	1	8	7	51,865	54	165	449,922	20,007	255,503	24	534,368	24,840	3,510	1,340,277	0	134	102	64,628	23,215	968,963	1,057,042	2,397,319	22,985	49,106	0	65,444	0	0	0	137,535	2,534,854
2001	0	0	1		825	16	69	77,271	48,011	357,061	24	1,075,871	27,938	2,257	1,589,344	0	0	2	33,137	50,160	668,629	751,928	2,341,272	26,665	50,008	0	29,080	0	1	0	105,754	2,447,026
2002 [3]	1	3	11	261	27,940	3	100	893,182	40,161	437,814	158	469,833	150,415	805	2,020,687	0	414	115	102,820	33,362	538,742	675,453	2,696,140	28,706	35,480	0	35,688	0	1	0	99,875	2,796,015
2003	2	1	0	20,070	24,121		20	569,846	35	421,871	388	532,479	37,182	2,031	1,608,046	0	1,534	45,295	366,501	36,748	376,903	826,981	2,435,027	12,953	34,286	0	58,660	0	1	0	105,900	2,540,927
2004	0	-	0	42	25,852	51	29	467,217	62,844	209,659	62,806	564,947	91,476	2,402	1,487,325	0	9	1,816	197,753	49,056	478,365	726,999	2,214,324	30,981	32,715	0	71,675	0	2	0	135,373	2,349,697
2005	0	2	0	13	19,751	315	4	476,885	3,962	385,813	4,213	530,909	42,217	2,200	1,466,284	0	33,043	70	211,083	53,612	580,109	877,917	2,344,201	44,368	44,416	0	54,137	50	3	0	142,974	2,487,175
2006 [4]	0	2	0	17	90,590	82	86	462,086	23,600	362,241	16,541	455,980	27	1,903	1,413,155	0	0	65,072	221,372	25,902	493,662	806,008	2,219,163	26,643	45,628	0	68,316	2,500	0	0	143,087	2,362,250
2007	2	0	2	87	132,962	588	4	530,714	15,671	284,550	242	633,403	240,111	2,201	1,840,537	0	590	2,013	453,839	30,994	589,121	1,076,557	2,917,094	11,321	48,234	0	110,632	454	1	0	170,642	3,087,736
2008	0	0	1	2	127,685	280	221	275,548	66,612	341,025	83,270	701,479	229,701	1,801	1,827,625	0	505	82	266,512	48,801	311,526	627,426	2,455,051	35,775	57,340	0	95,398	0	2	0	188,515	2,643,566
2009	0	1	1	8	31,290	600	77	829,342	1,376	513,310	16,292	500,547	82,407	2,542	1,977,793	0	8	24	366,701	45,202	363,715	775,650	2,753,443	154,736	55,038	0	74,668	0	4	0	284,446	3,037,889
2010 [5]	0	0	0	0	17,504	356	13	317,143	56,359	709,273	10,482	556,256	370,060	1,240	2,038,686	0	0	7	112,217	61,677	444,893	618,794	2,657,480	101,652	57,589	0	78,840	0	3	0	238,084	2,895,564
2011	0	5	0	0	37,950	47,063	37	811,976	16,205	77,860	54,808	540,473	527,700	2,263	2,116,340	0	12	9	229,937	169,272	659,623	1,058,853	3,175,193	59,768	42,874	0	93,365	0	6	0	196,013	3,371,206
2012	2	2	-	93	104,481	69,906	14	773,499	4,453	1,488,015	5,312	737,564	221,102	352	3,404,795	19	1,896	30,093	183,161	106,920	294,338	616,427	4,021,222	51,409	65,650	0	88,205	33	17	17	205,331	4,226,553
2013	0	4	-	138	44,525	3	18	2,344,752	22,952	447,538	23,032	490,990	110,801	3,652	3,488,405	0	80	6,754	661,928	60,907	395,913	1,125,582	4,613,987	87,891	79,205	0	58,822	18	0	0	225,936	4,839,923
2014	0	2	0	3	27,400	1,389	10	412,485	11,582	1,455,879	35,776	780,659	127,000	2,700	2,854,885	0	6	38	520,876	133,285	305,593	959,798	3,814,683	57,085	83,140	0	124,350	7	254	0	264,836	4,079,519
2015	0	0	0	51	204,605	17,016	33	282,767	21,614	1,074,603	171,894	287,261	174,403	903	2,235,150	0	0	17	405,149	98,928	544,808	1,048,902	3,284,052	61,283	69,373	0	112,595	1	1	0	243,253	3,527,305
AVERAGES:																																
71-75	0	0	0	104,040	9,360	500	200	105,720	2,100	1,360	260	394,860	80	1,180	619,660		4	1,360	86,121	5,338	426,556	519,380	1,139,040	0	15,606	0	64	0	0	0	15,670	1,154,710
76-80	15	0	10	70,700	11,620	85	0	139,860	6,900	6,760	380	395,100	75	1,380	632,885		125	8,801	54,634	13,480	762,398	839,669	1,472,554	71	28,588	0	634	0	0	0	29,293	1,501,847
81-85	30	10	5	189,260	10,280	70	10	147,700	4,500	72,020	260	330,920	585	1,740	757,390		248	24,366	28,861	21,966	851,928	927,369	1,684,759	2,172	50,093	0	1,652	3	0	0	53,920	1,738,679
86-90	51	15	5	209,656	9,826	30	38	165,624	9,800	182,180	265	431,180	845	2,680	1,012,196		1,904	27,030	21,078	28,340	668,327	746,681	1,758,877	12,959	48,428	40	1,108	0	0	0	62,535	1,821,412
91-95	32	1	0	97,034	6,995	15	127	243,386	5,972	359,935	30	479,365	6,542	1,539	1,200,974		2,951	10,217	98,443	20,541	832,391	964,547	2,165,521	19,859	50,608	8	10,055	0	0	1	80,531	2,246,052
96-00	23	1	2	30,319	30,483	15	77	335,872	19,103	332,852	397	834,374	29,256	2,579	1,615,351		2,540	5,715	86,489	21,909	938,202	1,054,856	2,670,207	42,806	42,403	0	54,282	0	38	0	139,530	2,809,737
01-05	1	2	2	5,097	19,698	96	44	496,880	31,003	362,444	13,518	634,808	69,846	1,939	1,634,337		7,000	9,460	182,259	44,588	528,550	771,856	2,406,193	28,735	39,381	0	49,848	10	2	0	117,975	2,524,168
06-10	0	1	1	23	80,006	381	80	482,967	32,724	442,080	25,365	569,533	184,461	1,937	1,819,559		221	13,440	284,128	42,515	440,583	780,887	2,600,446	66,025	52,766	0	85,571	591	2	0	204,955	2,805,401
11-15	0	3	0	57	83,792	27,075	22	925,096	15,361	908,779	58,164	567,389	232,201	1,974	2,819,915		399	7,382	400,210	113,862	440,055	961,912	3,781,827	63,487	68,048	0	95,467	12	56	3	227,074	4,008,901

[1] Includes snow, blue, and Ross's geese

[2] Surveys conducted in December 1970-98, January thereafter. Except in Texas where the light goose count includes a traditional Mid Dec. coastal cruise survey and Jan. transect surveys in the High and Rolling Plains (transect numbers in the other survey zones not included).

[3] Texas' traditional mid-Dec. cruise survey was not completed; estimate is based on a Jan. transect survey.

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

[5] Arkansas changed to a transect survey in Zone 2 & 3

MALLARD
MIDWINTER WATERFOWL SURVEY
CENTRAL FLYWAY, 1948-2015

YEAR	ND	MT	SD	WY	CO	NE	KS	OK	NM	TX	TOTAL
1948	12,048	199,759	184,447	68,380	180,743	109,740	42,300	19,850	94,565	473,575	1,385,407
1949	3,434	153,451	104,390	48,000	216,280	183,026	80,800	132,720	187,910	429,850	1,539,861
1950	427	163,378	169,511	60,410	366,625	271,591	76,920	65,075	73,640	611,810	1,859,387
1951	66	80,971	156,355	94,420	271,600	269,317	80,300	58,915	79,895	629,080	1,720,919
1952	86	86,680	190,476	103,500	319,100	122,771	264,500	111,500	43,380	381,600	1,623,593
1953	531	74,661	84,236	80,460	379,345	192,558	211,550	58,340	68,925	504,420	1,655,026
1954	326	97,749	81,510	88,355	321,565	211,461	396,000	109,260	17,935	449,240	1,773,401
1955	6,944	112,982	503,685	101,514	310,826	201,183	144,466	44,089	30,581	603,994	2,060,264
1956	3,147	38,889	50,109	55,111	258,214	222,035	259,045	72,669	48,467	1,004,201	2,011,887
1957	7,473	66,650	336,776	75,331	556,393	344,352	399,233	28,484	59,719	420,438	2,294,849
1958	34,000	87,118	1,326,396	58,010	686,339	561,448	612,417	75,616	33,649	738,490	4,213,483
1959	2,100	87,494	580,909	66,892	427,870	311,294	346,666	129,886	38,365	469,904	2,461,380
1960	28	48,130	74,791	74,548	397,781	277,276	354,529	87,265	27,899	610,307	1,952,554
1961	2,100	59,440	337,388	44,212	335,728	167,411	474,519	50,071	21,518	176,116	1,668,503
1962	200	56,244	139,632	42,668	266,573	120,684	299,432	89,139	51,541	397,480	1,463,593
1963	18,640	90,539	264,453	49,691	246,465	145,510	325,083	197,650	59,622	259,981	1,657,634
1964	67,800	139,400	334,035	44,229	332,377	200,851	367,849	193,849	28,068	604,576	2,313,034
1965	1,185	73,107	151,665	36,357	195,784	195,590	470,521	179,540	22,785	494,623	1,821,157
1966	26,355	53,361	253,164	111,859	224,669	230,135	477,501	52,696	26,119	233,826	1,689,685
1967	3,225	66,474	365,615	35,317	288,736	240,865	660,980	278,672	44,274	144,550	2,128,708
1968	2,250	42,571	218,375	26,742	329,763	350,492	704,864	331,264	48,109	367,232	2,421,662
1969	2,955	56,420	79,792	46,533	273,285	246,300	583,682	209,475	30,831	143,165	1,672,438
1970	2,300	43,969	181,307	44,955	430,708	296,751	700,825	249,576	101,856	433,217	2,485,464
1971	1,725	45,980	150,288	51,570	294,996	265,950	597,247	279,148	62,048	381,305	2,130,257
1972	2,100	37,739	156,564	141,500	341,232	345,615	751,465	348,828	74,821	1,163,150	3,363,014
1973	1,630	35,227	145,565	98,915	233,038	197,500	814,043	300,225	61,209	454,973	2,342,325
1974	2,800	52,086	137,267	30,861	156,535	93,523	144,974	371,319	54,767	518,495	1,562,627
1975	4,520	40,160	130,500	20,540	281,570	231,988	402,310	174,941	53,158	541,192	1,880,879
1976	4,400	27,900	55,929	31,700	271,100	313,498	594,100	282,248	71,386	413,369	2,065,630
1977	4,970	45,810	78,967	65,170	231,200	369,749	550,220	214,489	94,351	590,627	2,245,553
1978	780	16,100	54,719	116,700	273,600	306,223	970,800	232,641	37,041	186,300	2,194,904
1979	1,660	25,381	144,879	21,946	184,379	244,249	310,541	121,605	76,734	428,400	1,559,774
1980	8,100	39,500	168,200	7,200	221,400	371,821	293,200	102,276	34,378	277,200	1,523,275
1981	15,500	28,000	246,500	90,000	376,400	487,089	448,400	120,078	31,152	379,300	2,222,419
1982	4,700	22,700	65,400	49,800	174,700	259,138	497,200	138,535	17,200	236,400	1,465,773
1983	6,000	21,113	223,500	33,065	106,344	314,115	345,959	101,000	33,600	169,400	1,354,096
1984	952	10,004	37,612	37,552	79,395	69,304	233,282	220,990	36,000	252,300	977,391
1985	3,500	13,700	70,200	58,000	85,300	233,085	139,100	151,400	30,400	243,100	1,027,785
1986	3,500	13,000	21,527	92,900	88,100	194,023	69,300	133,801	24,500	150,100	790,751
1987	5,900	20,200	148,100	96,500	142,100	254,621	155,400	116,665	17,613	115,350	1,072,449
1988	20,200	19,000	42,649	28,800	92,300	218,151	157,000	133,378	50,629	231,500	993,607
1989	1,139	23,744	51,779	120,204	265,726	270,623	227,292	185,794	41,797	205,526	1,393,624
1990	11,709	15,251	48,639	113,399	157,510	245,872	204,414	98,945	24,966	379,100	1,299,805
1991	4,440	13,902	28,741	43,105	100,300	259,746	66,910	114,417	43,162	117,000	791,723
1992	6,656	13,751	39,831	61,537	122,777	242,749	101,015	42,368	39,502	767,000	1,437,186
1993	6,892	6,464	28,092	27,311	115,086	141,964	76,248	77,824	38,970	72,400	591,251
1994	2,577	11,512	28,903	45,428	142,949	201,680	65,845	126,986	23,769	97,100	746,749
1995	2,775	13,946	38,810	42,089	93,708	123,045	187,636	194,308	29,982	135,768	862,067
1996	6,644	6,290	79,885	69,545	156,788	227,552	77,741	98,309	45,210	151,848	919,812
1997	1,627	13,894	20,429	67,856	139,657	338,674	182,989	154,013	61,911	347,357	1,328,407
1998	15,758	31,497	530,154	73,227	168,080	283,106	187,620	96,522	40,302	476,185	1,902,451
1999	2,150	22,991	49,515	106,493	143,958	378,193	245,559	614,217	48,742	944,139	2,555,957
2000	9,793	20,550	154,746	67,682	172,232	376,778	192,322	191,203	54,748	558,440	1,798,494
2001	6,529	9,870	26,670	50,193	128,370	412,463	170,645	361,036	46,069	654,325	1,866,170
2002	6,589	10,170	103,423	58,365	79,748	396,128	344,398	271,889	39,124	567,710	1,877,544
2003	6,976	22,495	246,361	73,138	94,645	387,732	131,785	220,526	31,874	610,107	1,825,639
2004	3,000	6,332	30,787	30,854	66,346	358,852	125,461	174,150	27,033	360,621	1,183,436
2005	2,057	6,950	110,085	54,101	101,066	161,159	65,508	181,965	26,706	716,346	1,425,943
2006	5,084	8,700	46,016	59,963	122,581	277,888	199,824	152,774	30,202	793,776	1,696,808
2007	28,882	14,335	69,578	72,971	58,369	164,643	163,175	82,770	38,279	1,301,969	1,994,971
2008	62,229	31,199	245,384	58,124	34,977	204,830	247,706	89,684	42,899	835,534	1,852,566
2009	11,958	23,504	129,894	61,462	55,519	348,690	179,738	217,533	28,710	453,426	1,510,434
2010	9,392	19,250	66,000	45,586	148,284	141,986	80,343	261,395	30,196	666,575	1,469,007
2011	5,334	22,973	35,378	46,092	105,265	310,257	196,098	230,992	37,152	582,587	1,572,128
2012	88,698	43,489	419,307	57,687	129,547	319,183	220,503	230,444	35,199	574,828	2,118,885
2013	31,699	41,495	442,753	40,641	191,132	389,062	258,167	196,823	48,567	486,306	2,126,645
2014	18,721	16,540	104,730	62,843	90,723	321,464	228,692	236,720	56,569	457,567	1,594,569
2015	26,558	16,580	83,581	51,387	92,663	221,097	269,723	271,875	41,026	586,048	1,660,538
AVG	**9,947**	**43,834**	**169,218**	**61,640**	**213,654**	**260,996**	**301,557**	**169,774**	**46,372**	**459,025**	**1,736,018**

KL Kruse *File S:MBMO\CF_D\PROJECTS\monitoring\MWS\SPECIES\CFI* *03/20/15*

CENTRAL FLYWAY MID-WINTER WATERFOWL SURVEY RESULTS IN 2015 RELATED TO PREVIOUS SURVEYS

SPECIES	2015	2014	% Change, 2015 from 2014	2010-2014 Avg	% Change, 2015 from 2010-14 Avg	1948-2014 Avg	% Change, 2015 from 48-2014 Avg	% Change, 2015 from 2000-2009 Avg	% Change, 2015 from 90-99 Avg	% Change, 2015 from 80-89 Avg	% Change, 2015 from 70-79 Avg	% Change, 2015 from 60-69 Avg	% Change, 2015 from 48-59 Avg
Mallard	1,660,538	1,594,569	4%	1,776,247	-7%	1,737,178	-4%	-3%	34%	30%	-24%	-12%	-19%
Black Duck	0	1		0		13	-100%	-100%	-100%	-100%	-100%	-100%	-100%
Mottled Duck	15,988	32,736	-51%	30,781	-48%	23,432	-32%	-39%	-50%	-54%	-64%	659%	977%
Gadwall	835,676	749,838	11%	814,547	3%	266,481	214%	15%	265%	474%	327%	1666%	2989%
Wigeon	228,234	152,654	50%	247,649	-8%	164,462	39%	-23%	149%	162%	23%	44%	73%
G-W Teal	306,861	651,258	-53%	409,541	-25%	366,596	-16%	-39%	-43%	-29%	-44%	116%	299%
BW/CIN Teal	26,878	6,082	342%	24,792	8%	22,198	21%	-72%	378%	351%	35%	290%	2513%
Shoveler	161,956	314,432	-48%	200,192	-19%	75,597	114%	22%	102%	162%	100%	683%	555%
Pintail	542,776	616,586	-12%	409,502	33%	715,301	-24%	-12%	-1%	-8%	-52%	15%	-47%
Wood Duck	57,899	25,296	129%	33,198	74%	7,186	706%	304%	846%	1731%		6151%	5368%
Whistling Duck	0	0		3,183	-100%	5,448	-100%	-100%	-100%	-100%			
Total Dabblers	3,836,806	4,143,452	-7%	3,949,631	-3%	3,381,247	13%	-7%	38%	45%	-12%	41%	15%
Redhead	432,090	184,002	135%	186,809	131%	322,905	34%	65%	51%	87%	46%	40%	-24%
Canvasback	13,373	52,610	-75%	34,924	-62%	20,246	-34%	-34%	-40%	-59%	-28%	57%	-2%
Scaup	143,786	360,362	-60%	279,415	-49%	137,312	5%	-33%	134%	98%	86%	133%	-41%
Ringneck	365,863	259,912	41%	258,121	42%	54,160	576%	165%	491%	1732%	6129%	8260%	11921%
Goldeneye	33,571	22,217	51%	32,128	4%	18,039	86%	18%	88%	81%	243%	200%	113%
Bufflehead	34,724	21,737	60%	24,509	42%	9,354	271%	60%	194%	482%	445%	928%	3519%
Ruddy Duck	171	6,508	-97%	3,881	-96%	7,340	-98%	-98%	-97%	-98%	-97%	-98%	-94%
Total Divers	1,023,578	907,348	13%	819,786	25%	569,356	80%	47%	119%	162%	145%	150%	20%
Scoter	0	0		0		0							
Long-tailed Duck	7	0		1		0							
Mergansers	80,669	40,747	98%	50,453	60%	81,273	-1%	-2%	-21%	-33%	1%	5%	68%
Unident. Ducks	444,449	415,259	7%	294,981	51%	99,852	345%	222%	91%	1447%	1098%	2636%	669%
TOTAL DUCKS	5,385,509	5,506,806	-2%	5,114,851	5%	4,131,729	30%	6%		69%	9%	67%	25%
Brant	0	0		0		0							
Snow/Blue Goose	1,283,034	1,206,768	6%	1,071,708	20%	730,836	76%	34%	19%	41%	96%	325%	234%
Ross's Goose	9,121	17,866	-49%	30,223	-70%	9,781		-30%	122%				
White-fronted Goose	69,266	27,006	156%	88,659	-22%	92,011	-25%	-60%	-62%	-45%	42%	329%	188%
Canada goose	1,813,801	1,603,125	13%	1,598,334	13%	804,382	125%	22%	33%	104%	300%	727%	1162%
TOTAL GEESE	3,175,222	2,854,765	11%	2,788,924	14%	1,631,609	95%	20%	21%	65%	175%	491%	475%
Tundra Swan	24	17	41%	29	-17%	14	73%	90%	248%	1100%	167%	17%	6%
Trumpeter Swan	782	491	59%	693	13%	249	214%	58%	291%	349%	631%	390%	404%
Mute Swan	3	0		2				15%	500%				
Unident. Swans	91	73	25%	48	90%			617%	1617%				
TOTAL SWANS	900	581	55%	772	17%	270	234%	73%	323%	410%	676%	395%	406%
Coot	203,906	189,026	8%	308,544	-34%	251,109	-19%	-50%	-18%	-29%	-5%	-15%	-12%
GRAND TOTAL	8,765,537	8,551,178	3%	8,213,090	7%	6,014,716	46%	8%	36%	63%	39%	119%	77%

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MID-WINTER WATERFOWL SURVEY
CENTRAL FLYWAY

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

SPECIES	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2010-2014 AVG
Mallard	1,469,007	1,572,128	2,118,885	2,126,645	1,594,569	1,660,538					1,776,247
Black Duck	0	0	0	0	1	0					0
Mottled Duck	23,314	39,458	30,624	27,771	32,736	15,988					30,781
Gadwall	787,075	762,915	922,231	850,676	749,838	835,676					814,547
Wigeon	423,296	223,430	191,135	247,730	152,654	228,234					247,649
G-W Teal	360,769	311,314	397,317	327,047	651,258	306,861					409,541
BW/CIN Teal	25,924	75,720	14,105	2,129	6,082	26,878					24,792
Shoveler	195,455	138,215	188,706	164,150	314,432	161,956					200,192
Pintail	421,008	450,689	350,685	208,541	616,586	542,776					409,502
Wood Duck	12,109	57,522	18,259	52,802	25,296	57,899					33,198
Whistling Duck	280	0	0	15,635	0	0					3,183
Total Dabblers	3,718,237	3,631,391	4,231,947	4,023,126	4,143,452	3,836,806	0	0	0	0	3,949,631
Redhead	36,970	209,121	318,626	185,327	184,002	432,090					186,809
Canvasback	36,486	33,436	29,269	22,818	52,610	13,373					34,924
Scaup	419,805	216,183	270,854	129,870	360,362	143,786					279,415
Ringneck	279,816	278,133	169,012	303,730	259,912	365,863					258,121
Goldeneye	35,685	24,668	39,644	38,426	22,217	33,571					32,128
Bufflehead	34,510	13,618	34,112	18,568	21,737	34,724					24,509
Ruddy Duck	2,600	3,189	1,644	5,463	6,508	171					3,881
Total Divers	845,872	778,348	863,161	704,202	907,348	1,023,578	0	0	0	0	819,786
Scoter	0	0	0	0	0	0					0
Long-tailed Duck	2	0	1	0	0	7					1
Mergansers	54,125	57,947	37,103	62,342	40,747	80,669					50,453
Unident. Ducks	207,024	351,528	154,483	346,609	415,259	444,449					294,981
TOTAL DUCKS	4,825,260	4,819,214	5,286,695	5,136,279	5,506,806	5,385,509	0	0	0	0	5,114,851
Brant	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					1,071,708
Ross's Goose	16,536	31,493	41,212	44,008	17,866	9,121					30,223
White-fronted Goose	161,119	128,171	78,812	48,187	27,006	69,266					88,659
Canada goose	1,445,762	1,540,347	1,708,955	1,693,482	1,603,125	1,813,801					1,598,334
TOTAL GEESE	2,463,759	2,923,384	2,609,525	3,093,187	2,854,765	3,175,222	0	0	0	0	2,788,924
Tundra Swan	22	14	32	59	17	24					29
Trumpeter Swan	592	790	808	785	491	782					693
Mute Swan	0	0	8	1	0	3					2
Unident. Swans	63	61	14	28	73	91					48
TOTAL SWANS	677	865	862	873	581	900	0	0	0	0	772
Coot	460,300	592,219	75,811	225,364	189,026	203,906					308,544
GRAND TOTAL	7,749,996	8,335,682	7,972,893	8,455,703	8,551,178	8,765,537	0	0	0	0	8,213,090

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

SPECIES	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2000-09 AVG
Mallard	1,798,494	1,866,170	1,877,544	1,825,639	1,183,436	1,425,943	1,696,808	1,994,971	1,852,566	1,510,434	1,703,201
Black Duck	11	0	0	10	4	13	0	0	1	2	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	689,114	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	3,959,612	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	46,569	68,364	81,920
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	6,570,318	5,447,157	5,057,580
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	1,488,503	1,491,828
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	2,651,771	2,635,540
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	9,787,536	8,513,745	8,099,956

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

SPECIES	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	1990-99 AVG
Mallard	1,299,805	791,723	1,437,186	591,251	746,749	862,067	919,812	1,328,407	1,902,451	2,558,207	1,243,766
Black Duck	0	5	1	0	6	0	0	1	0	0	1
Mottled Duck	22,300	11,300	45,100	52,700	47,377	41,920	35,863	21,814	24,488	17,892	32,075
Gadwall	136,621	71,072	129,079	116,749	138,305	129,771	152,979	370,233	489,898	554,810	228,952
Wigeon	32,444	27,396	214,920	45,670	55,936	60,856	66,863	81,744	175,581	155,411	91,682
G-W Teal	280,257	81,307	722,935	327,341	156,102	2,205,886	260,638	449,524	381,897	494,256	536,014
BW/CIN Teal	1,112	760	5,065	3,948	3,252	15,949	1,317	6,928	2,784	15,106	5,622
Shoveler	85,945	41,682	54,154	59,683	142,284	77,357	68,113	77,396	83,302	110,886	80,080
Pintail	589,250	97,190	905,320	319,120	431,924	721,753	317,173	505,419	612,712	992,064	549,193
Wood Duck	405	900	2,109	3,038	1,927	10,085	595	16,772	19,444	5,915	6,119
Whistling Duck	100	100	1,500	16,300	735	899	545	1,000	3,510	2,796	2,749
Total Dabblers	2,448,239	1,123,435	3,517,369	1,535,800	1,724,597	4,126,543	1,823,898	2,859,238	3,696,067	4,907,343	2,776,253
Redhead	193,608	213,347	236,326	313,557	231,067	565,268	262,530	296,567	251,866	293,855	285,799
Canvasback	32,934	5,250	17,935	6,746	15,072	57,077	22,676	9,424	14,177	40,470	22,176
Scaup	36,683	12,667	24,737	57,012	92,990	51,886	76,855	55,550	74,713	131,968	61,506
Ringneck	41,304	8,163	45,232	28,936	18,954	13,847	12,068	61,576	186,004	202,481	61,857
Goldeneye	18,217	12,446	18,398	12,839	17,092	24,633	18,055	17,296	17,450	22,464	17,889
Bufflehead	4,839	3,811	7,620	24,688	13,899	12,192	11,029	7,041	16,499	16,665	11,828
Ruddy Duck	2,720	1,369	2,899	14,040	5,558	24,527	5,501	4,190	1,316	3,169	6,529
Total Divers	330,305	257,053	353,147	457,818	394,632	749,430	408,714	451,644	562,025	711,072	467,584
Scoter	2	0	0	0	0	0	0	0	0	0	0
Oldsquaw	1	0	0	0	0	0	0	0	0	0	0
Mergansers	134,073	124,543	131,322	93,361	105,802	65,783	122,796	90,481	66,516	89,148	102,383
Unident. Ducks	438,525	13,937	8,881	17,446	4,293	5,357	18,773	701,689	704,765	407,522	232,119
TOTAL DUCKS	3,351,145	1,518,968	4,010,719	2,104,425	2,229,324	4,947,113	2,374,181	4,103,052	5,029,373	6,115,085	3,578,339
Brant	0	0	0	0	0	0	0	0	0	0	0
Snow/Blue Goose	699,988	904,504	996,258	941,096	1,100,043	1,349,746	928,619	1,330,006	1,162,207	1,344,173	1,075,664
Ross' Goose								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, 1980-89

SPECIES	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	80-89 AVG
Mallard	1,523,275	2,222,419	1,465,773	1,354,096	977,391	1,027,785	790,751	1,072,449	993,607	1,393,624	1,282,117
Black Duck	0	0	0	6	20	0	0	0	0	0	3
Mottled Duck	38,401	37,400	32,600	39,400	52,400	33,100	43,400	34,450	28,400	9,865	34,942
Gadwall	257,873	147,697	138,117	147,856	191,029	173,732	108,076	124,624	110,248	55,783	145,504
Wigeon	149,135	106,409	150,599	101,540	76,915	75,840	39,584	76,546	67,807	26,003	87,038
G-W Teal	1,146,335	397,737	329,650	194,726	226,370	288,145	221,055	541,915	737,160	228,101	431,119
BW/CIN Teal	5,475	1,737	1,000	1,200	2,000	12,400	13,800	2,600	6,800	12,600	5,961
Shoveler	59,207	33,090	61,559	73,810	54,000	54,400	68,200	70,244	102,549	39,975	61,703
Pintail	1,542,961	349,677	617,876	353,175	593,311	571,800	335,335	516,825	733,405	278,559	589,292
Wood Duck	0	0	2,000	2,200	1,701	12,300	8,700	1,801	600	2,317	3,162
Whistling Duck	0	0	0	3,300	0	100	3,900	0	100	118	752
Total Dabblers	4,722,662	3,296,166	2,799,174	2,271,309	2,175,137	2,249,602	1,632,801	2,441,454	2,780,676	2,046,945	2,641,593
Redhead	223,390	216,032	235,953	211,948	194,631	108,100	276,720	322,058	213,058	304,293	230,618
Canvasback	16,612	42,741	29,922	82,210	57,313	16,300	27,615	18,050	17,965	14,879	32,361
Scaup	75,231	62,767	140,349	38,149	61,260	75,800	116,200	59,157	79,639	19,351	72,790
Ringneck	1,500	7,301	9,000	13,500	54,160	21,606	14,800	21,309	33,900	22,650	19,973
Goldeneye	9,206	17,656	14,906	10,710	11,015	33,316	14,062	29,527	14,777	30,479	18,565
Bufflehead	6,232	11,381	3,812	7,050	5,525	6,000	3,300	5,561	6,354	4,471	5,969
Ruddy Duck	15,156	8,203	9,100	8,000	25,200	14,000	6,500	16,601	3,400	5,251	11,141
Total Divers	347,327	366,081	443,042	371,567	409,104	275,122	459,197	472,263	369,093	401,374	391,417
Scoter											
Oldsquaw											
Mergansers	104,571	289,467	65,865	116,312	45,333	115,387	84,525	113,600	112,915	154,259	120,223
Unident. Ducks	10,870	44,000	19,050	42,012	22,318	5,970	7,700	9,437	10,050	115,897	28,730
TOTAL DUCKS	5,185,430	3,995,714	3,327,131	2,801,200	2,651,892	2,646,081	2,184,223	3,036,754	3,272,734	2,718,475	3,181,963
Brant	0	0	0	0	10	0	0	0	0	0	1
Snow/Blue Goose	834,250	939,594	975,710	999,442	948,576	1,043,125	934,202	963,982	782,139	665,769	908,679
Ross' Goose											
White-fronted Goose	107,127	110,550	155,835	110,835	140,697	155,705	92,727	194,530	90,626	103,073	126,171
Canada goose	675,252	982,438	976,953	839,064	587,036	786,505	783,429	1,026,421	1,016,089	1,221,666	889,485
TOTAL GEESE	1,616,629	2,032,582	2,108,498	1,949,341	1,676,319	1,985,335	1,810,358	2,184,933	1,888,854	1,990,508	1,924,336
Tundra Swan	2	0	0	2	5	0	0	3	4	4	2
Trumpeter Swan	201	139	230	213	153	194	152	16	220	225	174
Mute Swan			0	0	0	0	0	0	0	0	0
Unident. Swans			0	0	0	0	0	0	0	0	0
TOTAL SWANS	203	139	230	215	158	194	152	19	224	229	176
Coot	350,462	317,200	325,700	216,870	388,892	208,600	158,450	234,850	421,800	240,616	286,344
GRAND TOTAL	7,152,724	6,345,635	5,761,559	4,967,626	4,717,261	4,840,210	4,153,183	5,456,556	5,583,612	4,949,828	5,392,819

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JANUARY 2015 MID-WINTER WATERFOWL SURVEY - CENTRAL FLYWAY [1]

SPECIES	ND	MT	SD	WY	CO	NE	KS	OK	NM	TX	TOTAL
Mallard	26,558	16,580	83,581	51,387	92,663	221,097	269,723	271,875	41,026	586,048	1,660,538
Black Duck											0
Mottled Duck										15,988	15,988
Gadwall			2	875	301		2,509	6,619	2,138	823,232	835,676
Wigeon				1,089	256	141	1,360	2,135	10,743	212,510	228,234
G-W Teal				451	565	136	1,238	9,001	24,687	270,783	306,861
BW/CIN Teal							25	23	8	26,822	26,878
Shoveler				2	1,332	4	473	574	2,578	156,993	161,956
Pintail			1	206	101	12	1,927	1,360	140,361	398,808	542,776
Wood Duck	5		2	48	23	7	58	586	7	57,163	57,899
Whistling Duck										0	0
Total Dabblers	26,563	16,580	83,586	54,058	95,241	221,397	277,313	292,173	221,548	2,548,347	3,836,806
Redhead				15	269	56	243	238	532	430,737	432,090
Canvasback				2	39	1	252	262	132	12,685	13,373
Scaup			6	41	171	13	156	1,133	20	142,246	143,786
Ringneck				71	261	18	516	1,557	461	362,979	365,863
Goldeneye	107	3,690	106	9,358	449	107	4,372	1,440	195	13,747	33,571
Bufflehead	3	25	16	51	243	8	687	1,302	248	32,141	34,724
Ruddy Duck							17	34	120	0	171
Total Divers	110	3,715	128	9,538	1,432	203	6,243	5,966	1,708	994,535	1,023,578
Scoters											0
Long-tailed Ducks	1						6				7
Mergansers	127	190	2,644	1,276	939	9,470	25,999	17,298	6,229	16,497	80,669
Unident. Ducks					2,788		8,070	1,466	91	432,034	444,449
Total Ducks	**26,801**	**20,485**	**86,358**	**64,872**	**100,400**	**231,070**	**317,631**	**316,903**	**229,576**	**3,991,413**	**5,385,509**
Brant											0
Snow/Blue Goose				1	61,283	18	405,149	89,807	69,373	657,403	1,283,034
Ross's Goose								9,121			9,121
Whitefront						16	2,706	1,538		65,006	69,266
Canada Goose	119,006	117,680	85,356	37,777	131,676	238,685	287,843	262,868	26,475	506,435	1,813,801
Total Geese	**119,006**	**117,680**	**85,356**	**37,778**	**192,959**	**238,719**	**695,698**	**363,334**	**95,848**	**1,228,844**	**3,175,222**
Tundra Swan					1		21	2			24
Trumpeter Swan			35	47		692	8				782
Mute Swan					3						3
Unident. Swans							82	9		0	91
Total Swans	**0**	**0**	**35**	**47**	**4**	**692**	**111**	**11**	**0**	**0**	**900**
Coot		350		693	1,326	11	1,212	601	8,049	191,664	203,906
Grand Total	**145,807**	**138,515**	**171,749**	**103,390**	**294,689**	**470,492**	**1,014,652**	**680,849**	**333,473**	**5,411,921**	**8,765,537**

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JANUARY 2014 MID-WINTER WATERFOWL SURVEY - CENTRAL FLYWAY[1]

SPECIES	ND	MT	SD	WY	CO	NE	KS	OK	NM	TX	TOTAL
Mallard	18,721	16,540	104,730	62,843	90,723	321,464	228,692	236,720	56,569	457,567	1,594,569
Black Duck			1								1
Mottled Duck										32,736	32,736
Gadwall			6	595	558	257	1,066	7,607	4,619	735,130	749,838
Wigeon				1,022	381	267	3,358	748	7,186	139,692	152,654
G-W Teal			7	559	237	7	1,119	5,950	8,690	634,689	651,258
BW/CIN Teal										6,082	6,082
Shoveler					888		1,198	850	4,533	306,963	314,432
Pintail	1			477	171	22	3,235	1,766	62,595	548,319	616,586
Wood Duck	2		4	8	8	4	148	396		24,726	25,296
Whistling Duck											0
Total Dabblers	18,724	16,540	104,748	65,504	92,966	322,021	238,816	254,037	144,192	2,885,904	4,143,452
Redhead			10	20	195	12	1,209	93	2,368	180,095	184,002
Canvasback					10		231	37	735	51,597	52,610
Scaup			20	40	236	6	1,095	130	878	357,957	360,362
Ringneck			10	171	163	51	1,818	953	977	255,769	259,912
Goldeneye		4,568	270	6,565	1,247	239	4,352	483	122	4,371	22,217
Bufflehead			31	87	262	14	1,462	302	227	19,352	21,737
Ruddy Duck				16			211	24	194	6,063	6,508
Total Divers	0	4,568	341	6,899	2,113	322	10,378	2,022	5,501	875,204	907,348
Scoters											0
Long-tailed Ducks											0
Mergansers	113	60	1,216	1,387	673	2,916	7,620	9,127	6,535	11,100	40,747
Unident. Ducks					1,004	1,018	192	2,266	4	410,775	415,259
Total Ducks	**18,837**	**21,168**	**106,305**	**73,790**	**96,756**	**326,277**	**257,006**	**267,452**	**156,232**	**4,182,983**	**5,506,806**
Brant											0
Snow/Blue Goose			6	254	57,085	45	520,876	115,419	83,140	429,943	1,206,768
Ross's Goose								17,866			17,866
Whitefront					1	18	3,311	5,262		18,414	27,006
Canada Goose	52,771	76,470	141,165	125,471	167,505	349,017	194,866	174,339	21,156	300,365	1,603,125
Total Geese	**52,771**	**76,470**	**141,171**	**125,725**	**224,591**	**349,080**	**719,053**	**312,886**	**104,296**	**748,722**	**2,854,765**
Tundra Swan	1						9	7			17
Trumpeter Swan			2	33		444	12				491
Mute Swan											0
Unident. Swans					3		35	15		20	73
Total Swans	**1**	**0**	**2**	**33**	**3**	**444**	**56**	**22**	**0**	**20**	**581**
Coot		55	2	531	379	38	283		4,228	183,510	189,026
Grand Total	**71,609**	**97,693**	**247,480**	**200,079**	**321,729**	**675,839**	**976,398**	**580,360**	**264,756**	**5,115,235**	**8,551,178**

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JANUARY 2013 MID-WINTER WATERFOWL SURVEY - CENTRAL FLYWAY[1]

SPECIES	ND	MT	SD	WY	CO	NE	KS	OK	NM	TX	TOTAL
Mallard	31,699	41,495	442,753	40,641	191,132	389,062	258,167	196,823	48,567	486,306	2,126,645
Black Duck											0
Mottled Duck										27,771	27,771
Gadwall	50		22	606	751	144	3,093	7,403	30,803	807,804	850,676
Wigeon			62	1,241	995	67	3,659	889	13,803	227,014	247,730
G-W Teal				683	804	70	4,259	11,231	4,430	281,992	303,469
BW/CIN Teal					2				23,578	2,127	25,707
Shoveler			1		2,100		1,136	2,019	2,725	156,169	164,150
Pintail				75	446	22	5,233	1,405	28,003	173,357	208,541
Wood Duck			6		21	11	150	214		52,400	52,802
Whistling Duck										15,635	15,635
Total Dabblers	31,749	41,495	442,844	43,246	196,251	389,376	275,697	219,984	151,909	2,230,575	4,023,126
Redhead				7	194	101	920	21	547	183,537	185,327
Canvasback					77	250	282	1,096	309	20,804	22,818
Scaup	30			20	334	300	348	435	120	128,283	129,870
Ringneck			16	232	279	211	2,715	518	132	299,627	303,730
Goldeneye	220	6,860	116	8,703	3,787	1,024	13,339	723	60	3,594	38,426
Bufflehead	10		23	79	293	350	2,990	946	117	13,760	18,568
Ruddy Duck				80	8		109	178	195	4,893	5,463
Total Divers	260	6,860	155	9,121	4,972	2,236	20,703	3,917	1,480	654,498	704,202
Scoters											0
Long-tailed Ducks											0
Mergansers	204	298	4,215	1,320	1,423	3,139	10,786	5,456	7,470	28,031	62,342
Unident. Ducks					22,679	833	11,004	1,732	4	310,357	346,609
Total Ducks	**32,213**	**48,653**	**447,214**	**53,687**	**225,325**	**395,584**	**318,190**	**231,089**	**160,863**	**3,223,461**	**5,136,279**
Brant											0
Snow/Blue Goose			80		87,891	6,772	660,768	52,672	44,592	454,735	1,307,510
Ross's Goose							1,160	8,235	34,613		44,008
Whitefront					1	70	5,825	1,853		40,438	48,187
Canada Goose	127,212	139,980	416,779	75,856	244,894	280,323	118,580	117,741	23,770	148,347	1,693,482
Total Geese	**127,212**	**139,980**	**416,859**	**75,856**	**332,786**	**287,165**	**786,333**	**180,501**	**102,975**	**643,520**	**3,093,187**
Tundra Swan					1		53	4	1		59
Trumpeter Swan			31	7		744	3				785
Mute Swan				1							1
Unident. Swans				1	3			12		12	28
Total Swans	**0**	**0**	**31**	**9**	**4**	**744**	**56**	**16**	**1**	**12**	**873**
Coot		630	70	533	1,400			1,137	5,050	215,538	224,358
Grand Total	**159,425**	**189,263**	**864,174**	**130,085**	**559,515**	**683,493**	**1,104,579**	**412,743**	**268,889**	**4,082,531**	**8,454,697**

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JANUARY 2012 MID-WINTER WATERFOWL SURVEY - CENTRAL FLYWAY[1]

SPECIES	ND	MT	SD	WY	CO	NE	KS	OK	NM	TX	TOTAL
Mallard	88,698	43,489	419,307	57,687	129,547	319,183	220,503	230,444	35,199	574,828	2,118,885
Black Duck											0
Mottled Duck										30,624	30,624
Gadwall			8	1,143	338	118	13,420	13,823	6,763	886,618	922,231
Wigeon			10	1,161	619	520	8,986	3,242	12,043	164,554	191,135
G-W Teal			1	327	753	52	2,798	12,245	16,021	359,984	392,181
BW/CIN Teal					2	0	45	30	5,136	14,028	19,241
Shoveler	200				2,031	87	5,964	3,977	1,435	175,012	188,706
Pintail	1		18	281	852	107	2,586	9,842	46,435	290,563	350,685
Wood Duck				15	24	22	903	733		16,562	18,259
Whistling Duck											0
Total Dabblers	88,899	43,489	419,344	60,614	134,166	320,089	255,205	274,336	123,032	2,512,773	4,231,947
Redhead		8		10	339	39	1,651	57	116	316,406	318,626
Canvasback				0	73	69	72	375	286	28,394	29,269
Scaup				25	197	73	356	1,138	764	268,301	270,854
Ringneck	1			446	502	34	4,025	3,701	983	159,320	169,012
Goldeneye	123	4,986	68	18,839	721	1,438	2,411	146	76	10,860	39,668
Bufflehead	1	111	25	96	374	95	690	122	143	32,431	34,088
Ruddy Duck			2	25	36		139	107	127	1,208	1,644
Total Divers	125	5,105	95	19,441	2,242	1,748	9,344	5,646	2,495	816,920	863,161
Scoters											0
Long-tailed Ducks				1							1
Mergansers	112	202	316	3,734	726	7,198	5,894	6,344	4,351	8,226	37,103
Unident. Ducks					41,622	575	3,205	6,849	59	102,173	154,483
Total Ducks	**89,136**	**48,796**	**419,755**	**83,790**	**178,756**	**329,610**	**273,648**	**293,175**	**129,937**	**3,440,092**	**5,286,695**
Brant											0
Snow/Blue Goose	19	17	1,896	17	51,409	30,126	183,159	94,964	36,396	382,543	780,546
Ross's Goose							2	11,956	29,254		41,212
Whitefront						35	9,910	1,523		67,344	78,812
Canada Goose	190,197	170,210	306,625	51,611	225,048	185,021	65,385	255,663	22,166	237,029	1,708,955
Total Geese	**190,216**	**170,227**	**308,521**	**51,628**	**276,457**	**215,182**	**258,456**	**364,106**	**87,816**	**686,916**	**2,609,525**
Tundra Swan					2		19		11		32
Trumpeter Swan			41	8		753	3	3			808
Mute Swan							8				8
Unident. Swans					3			2		9	14
Total Swans	**0**	**0**	**41**	**8**	**5**	**753**	**30**	**5**	**11**	**9**	**862**
Coot		164		643	1,736	1,755	3,108	1,532	5,082	61,791	75,811
Grand Total	**279,352**	**219,187**	**728,317**	**136,069**	**456,954**	**547,300**	**535,242**	**658,818**	**222,846**	**4,188,808**	**7,972,893**

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JANUARY 2011 MID-WINTER WATERFOWL SURVEY - CENTRAL FLYWAY[1]

SPECIES	ND	MT	SD	WY	CO	NE	KS	OK	NM	TX	TOTAL
Mallard	5,334	22,973	35,378	46,092	105,265	310,257	196,098	230,992	37,152	582,587	1,572,128
Black Duck											0
Mottled Duck										39,458	39,458
Gadwall	1		10	1,074	144	350	2,016	6,717	7,566	745,037	762,915
Wigeon	1		53	1,485	377	118	2,261	1,377	9,762	207,996	223,430
G-W Teal	2			293	215	52	1,193	7,029	14,136	287,234	310,154
BW/CIN Teal					11		2		1,160	75,707	76,880
Shoveler					2,505	20	393	1,718	3,120	130,459	138,215
Pintail	1		3	117	236	9	776	1,953	28,784	418,810	450,689
Wood Duck			4	28	51	23	155	361	10	56,890	57,522
Whistling Duck											0
Total Dabblers	5,339	22,973	35,448	49,089	108,804	310,829	202,894	250,147	101,690	2,544,178	3,631,391
Redhead			29	35	117		1,558	289	174	206,919	209,121
Canvasback					23	1	25	367	128	32,892	33,436
Scaup			20	126	88	130	1,156	556	584	213,523	216,183
Ringneck			30	83	154	100	1,415	1,473	965	273,913	278,133
Goldeneye	38	8,086	414	9,148	930	1,211	2,693	446	88	1,614	24,668
Bufflehead			42	122	342	85	628	464	518	11,417	13,618
Ruddy Duck						3	102	554	338	2,192	3,189
Total Divers	38	8,086	535	9,514	1,654	1,530	7,577	4,149	2,795	742,470	778,348
Scoters											0
Long-tailed Ducks											0
Mergansers	76	340	668	1,740	1,016	2,426	11,253	16,907	8,081	15,440	57,947
Unident. Ducks			945		14,306	10	79,043	7,332	56	249,836	351,528
Total Ducks	**5,453**	**31,399**	**37,596**	**60,343**	**125,780**	**314,795**	**300,767**	**278,535**	**112,622**	**3,551,924**	**4,819,214**
Brant											0
Snow/Blue Goose			12	6	59,768	9	229,886	144,385	36,319	752,988	1,223,373
Ross's Goose							51	24,887	6,555		31,493
Whitefront						32	4,168	10,700	10	113,261	128,171
Canada Goose	7,319	70,585	98,064	91,501	196,507	312,374	141,188	324,769	19,783	278,257	1,540,347
Total Geese	**7,319**	**70,585**	**98,076**	**91,507**	**256,275**	**312,415**	**375,293**	**504,741**	**62,667**	**1,144,506**	**2,923,384**
Tundra Swan											0
Trumpeter Swan			7	22		761					790
Mute Swan											0
Unident. Swans			7		2		9	7	14	36	75
Total Swans	**0**	**0**	**14**	**22**	**2**	**761**	**9**	**7**	**14**	**36**	**865**
Coot			14	687	1,259	357	612	3,135	9,492	576,663	592,219
Grand Total	**12,772**	**101,984**	**135,700**	**152,559**	**383,316**	**628,328**	**676,681**	**786,418**	**184,795**	**5,273,129**	**8,335,682**

D.E. SHARP *File S:\CF_D\PROJECTS\survey\MWS\CFMWS\CFMWS2(* *04/25/11*

*In TX, SGPand TGP 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).

JANUARY 2010 MID-WINTER WATERFOWL SURVEY - CENTRAL FLYWAY[1]

SPECIES	ND	MT	SD	WY	CO	NE	KS	OK	NM	TX	TOTAL
Mallard	9,392	19,250	66,000	45,586	148,284	141,986	80,343	261,395	30,196	666,575	1,469,007
Black Duck				0					0	0	0
Mottled Duck				0					0	23,314	23,314
Gadwall			9	393	259	217	2,052	7,278	1,956	774,911	787,075
Wigeon			3	574	370	29	10,219	2,086	7,547	402,468	423,296
G-W Teal				264	285	75	100	5,033	3,958	351,054	360,769
BW/CIN Teal				0	9		0	5	0	25,910	25,924
Shoveler			1	0	2,019		570	798	1,262	190,805	195,455
Pintail			24	78	134	1	292	13,130	19,823	387,526	421,008
Wood Duck			6	22	38	7	38	407	1	11,590	12,109
Whistling Duck				0	0		0	0	0	280	280
Total Dabblers	9,392	19,250	66,043	46,917	151,398	142,315	93,614	290,132	64,743	2,834,433	3,718,237
Redhead			23	67	160	28	18	124	704	35,846	36,970
Canvasback				0	85	35	0	907	458	35,001	36,486
Scaup	1		8	135	203	57	646	1,162	503	417,090	419,805
Ringneck			1	123	355	53	511	2,676	336	275,761	279,816
Goldeneye	250	6,924	1,238	10,230	610	480	1,189	1,676	47	13,041	35,685
Bufflehead	12		40	218	446	38	183	1,019	296	32,258	34,510
Ruddy Duck				19	0		10	285	321	1,965	2,600
Total Divers	263	6,924	1,310	10,792	1,859	691	2,557	7,849	2,665	810,962	845,872
Scoters				0							
Oldsquaw	1		1	0							2
Mergansers	140	154	2,148	1,314	829	708	2,076	28,524	7,754	10,478	54,125
Unident. Ducks			1	0	29,596	19	657	8,562		168,189	207,024
Total Ducks	**9,796**	**26,328**	**69,503**	**59,023**	**183,682**	**143,733**	**98,904**	**335,067**	**75,162**	**3,824,062**	**4,825,260**
Brant				0							0
Snow/Blue Goose				3	101,652	7	112,215	53,354	49,378	523,733	840,342
Ross's Goose				0			2	8,323	8,211		16,536
Whitefront				0	1		46,118	18,383	0	96,617	161,119
Canada Goose	25,617	65,456	76,913	54,542	173,716	243,341	163,309	319,482	29,008	294,378	1,445,762
Total Geese	**25,617**	**65,456**	**76,913**	**54,545**	**275,369**	**243,348**	**321,644**	**399,542**	**86,597**	**914,728**	**2,463,759**
Tundra Swan				0				10	12		22
Trumpeter Swan			5	44		543					592
Mute Swan				0							0
Unident. Swans			2	0	2		12	47			63
Total Swans	**0**	**0**	**7**	**44**	**2**	**543**	**12**	**57**	**12**	**0**	**677**
Coot			21	290	28	12	34	4,595	5,350	449,970	460,300
Grand Total	**35,413**	**91,784**	**146,444**	**113,902**	**459,081**	**387,636**	**420,594**	**739,261**	**167,121**	**5,188,760**	**7,749,996**

D.E. SHARP *File S:\CF_D\PROJECTS\survey\MWS\CFMWS\CFMWS2(* *07/17/10*

*In TX, SGPand TGP 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).

JANUARY 2009 MID-WINTER WATERFOWL SURVEY - CENTRAL FLYWAY[1]

SPECIES	ND	MT	SD	WY	CO	NE	KS	OK	NM	TX	TOTAL
Mallard	11,958	23,504	129,894	61,462	55,519	348,690	179,738	217,533	28,710	453,426	1,510,434
Black Duck	2										2
Mottled Duck										25,324	25,324
Gadwall				1,149	177	50	3,843	5,775	3,290	681,467	695,751
Wigeon	1		44	1,333	1,023	70	9,767	1,065	4,832	245,033	263,168
G-W Teal				493	2,622	65	4,141	6,072	5,198	670,523	689,114
BW/CIN Teal			100		88				6	97,006	97,200
Shoveler	1				711	4	1,604	1,540	1,762	95,848	101,470
Pintail			10	258	1,798	2	2,695	4,343	23,460	539,933	572,499
Wood Duck			16	18	74	1	250	635	4	3,652	4,650
Whistling Duck										0	0
Total Dabblers	11,962	23,504	130,064	64,713	62,012	348,882	202,038	236,963	67,262	2,812,212	3,959,612
Redhead				56	1,775	20	6,777	144	690	153,405	162,867
Canvasback					1,071		147	1,593	959	31,317	35,087
Scaup					313	30	2,912	1,063	10	787,536	791,864
Ringneck				163	326	13	4,453	977	200	152,010	158,142
Goldeneye	28	3,996	262	9,543	431	142	19,945	132	65	4,401	38,945
Bufflehead		15	150	168	303	35	1,658	333	218	17,205	20,085
Ruddy Duck					14		152	77	41	34,294	34,578
Total Divers	28	4,011	412	9,930	4,233	240	36,044	4,319	2,183	1,180,168	1,241,568
Scoters					1						
Oldsquaw											0
Mergansers	57	101	2,538	942	1,576	5,874	17,583	15,571	7,762	16,360	68,364
Unident. Ducks					17,873	14	325	3,054		156,347	177,613
Total Ducks	**12,047**	**27,616**	**133,014**	**75,585**	**85,695**	**355,010**	**255,990**	**259,907**	**77,207**	**4,165,087**	**5,447,157**
Brant											0
Snow/Blue Goose			8	4	154,736	23	365,376	41,586	36,694	438,383	1,036,810
Ross's Goose						1	1,325	3,616	18,344		23,286
Whitefront					1	33	63,273	3,567	8	36,290	103,172
Canada Goose	9,726	62,625	198,565	62,122	175,411	323,154	256,295	219,337	29,554	151,714	1,488,503
Total Geese	**9,726**	**62,625**	**198,573**	**62,126**	**330,148**	**323,211**	**686,269**	**268,106**	**84,600**	**626,387**	**2,651,771**
Tundra Swan								2	3		5
Trumpeter Swan				16	1	669	10				696
Mute Swan											0
Unident. Swans								12		4	16
Total Swans	**0**	**0**	**0**	**16**	**1**	**669**	**10**	**14**	**3**	**4**	**717**
Coot	1	25	20	447	695	3	791	5,242	8,541	398,335	414,100
Grand Total	**21,774**	**90,266**	**331,607**	**138,174**	**416,539**	**678,893**	**943,060**	**533,269**	**170,351**	**5,189,813**	**8,513,745**

D.E. SHARP *File S:\CF_D\PROJECTS\survey\MWS\CFMWS\CFMWS2(* *04/14/09*

*In TX, SGPand TGP 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).

JANUARY 2008 MID-WINTER WATERFOWL SURVEY - CENTRAL FLYWAY[1]

SPECIES	ND	MT	SD	WY	CO	NE	KS	OK	NM	TX	TOTAL
Mallard	62,229	31,199	245,384	58,124	34,977	204,830	247,706	89,684	42,899	835,534	1,852,566
Black Duck							1				1
Mottled Duck										27,470	27,470
Gadwall			30	645	404	2	5,410	6,547	3,277	1,017,487	1,033,802
Wigeon			93	1,143	517	3	3,314	237	4,219	268,835	278,361
G-W Teal			75	679	334		3,701	6,476	4,818	1,245,029	1,261,112
BW/CIN Teal					8			2		60,913	60,923
Shoveler					2,017		1,087	2,436	1,158	109,580	116,278
Pintail			38	164	742	8		3,490	17,630	913,956	936,028
Wood Duck			3	7	56		753	1,496	2	6,784	9,101
Whistling Duck										87,007	87,007
Total Dabblers	62,229	31,199	245,623	60,762	39,055	204,843	261,972	110,368	74,003	4,572,595	5,662,649
Redhead	1		16	12	334		348	16	395	223,018	224,140
Canvasback				2	56		170	90	192	16,464	16,974
Scaup			26	34	83	20	446	1,689	83	90,075	92,456
Ringneck			100	19	96	10	4,223	1,197	457	221,446	227,548
Goldeneye		6,754	331	7,210	685	836	4,236	1,378	69	4,122	25,621
Bufflehead		6	47	80	425	35	306	237	691	9,525	11,352
Ruddy Duck			10		1		15	136	28	2,946	3,136
Total Divers	1	6,760	530	7,357	1,680	901	9,744	4,743	1,915	567,596	601,227
Scoters											
Oldsquaw											0
Mergansers	144	90	1,805	1,138	1,002	3,422	21,621	5,309	5,519	6,519	46,569
Unident. Ducks					41,113		16,503	1,480		200,777	259,873
Total Ducks	**62,374**	**38,049**	**247,958**	**69,257**	**82,850**	**209,166**	**309,840**	**121,900**	**81,437**	**5,347,487**	**6,570,318**
Brant											0
Snow/Blue Goose			505	2	35,775	67	251,512	46,822	48,532	406,924	790,139
Ross's Goose						15	15,000	1,979	8,808		25,802
Whitefront			1				38,031	6,119	7	38,778	82,936
Canada Goose	174,860	192,195	115,005	19,670	128,252	156,002	298,228	227,536	28,306	244,925	1,584,979
Total Geese	**174,860**	**192,195**	**115,511**	**19,672**	**164,027**	**156,084**	**602,771**	**282,456**	**85,653**	**690,627**	**2,483,856**
Tundra Swan	1							4	5		10
Trumpeter Swan			29	28	1	593					651
Mute Swan											0
Unident. Swans							5	9			14
Total Swans	**1**	**0**	**29**	**28**	**1**	**593**	**5**	**13**	**5**	**0**	**675**
Coot			50	471	760		1,257	4,333	4,840	720,976	732,687
Grand Total	**237,235**	**230,244**	**363,548**	**89,428**	**247,638**	**365,843**	**913,873**	**408,702**	**171,935**	**6,759,090**	**9,787,536**

D.E. SHARP *File S:\CF_D\PROJECTS\survey\MWS\CFMWS\CFMWS2000s.XLS* *04/18/08*

*In TX, SGPand TGP 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).

JANUARY 2007 MID-WINTER WATERFOWL SURVEY - CENTRAL FLYWAY[1]

SPECIES	ND	MT	SD	WY	CO	NE	KS	OK	NM	TX	TOTAL
Mallard	28,882	14,335	69,578	72,971	58,369	164,643	163,175	82,770	38,279	1,301,969	1,994,971
Black Duck											0
Mottled Duck										38,218	38,218
Gadwall			37	661	707	22	2,617	16,658	2,940	651,534	675,176
Wigeon			130	1,561	451	45	3,613	3,394	4,603	156,024	169,821
G-W Teal			32	813	260	50	686	8,731	12,015	464,260	486,847
BW/CIN Teal					31		275		1	44,320	44,627
Shoveler					2,198		4,981	2,575	1,929	90,253	101,936
Pintail	2		9	196	453		4,988	896	28,076	647,282	681,902
Wood Duck			26	31	7		1,049	692		23,531	25,336
Whistling Duck										52,607	52,607
Total Dabblers	28,884	14,335	69,812	76,233	62,476	164,760	181,384	115,716	87,843	3,469,998	4,271,441
Redhead	1		12		188		1,334	65	1,225	35,637	38,462
Canvasback					22	4	158	116	362	3,107	3,769
Scaup			8	34	137	87	1,318	449	339	93,518	95,890
Ringneck			120	121	236	24	694	1,112	77	80,026	82,410
Goldeneye	19	4,428	619	7,338	550	1,087	5,613	97	377	14,563	34,691
Bufflehead		25	26	131	229	125	2,343	40	200	3,536	6,655
Ruddy Duck			4	26	2		35	3	6		76
Total Divers	20	4,453	789	7,650	1,364	1,327	11,495	1,882	2,586	230,387	261,953
Scoters											
Oldsquaw											0
Mergansers	30	30	703	1,224	646	10,730	9,680	3,181	7,492	3,565	37,281
Unident. Ducks					1,713		4,659	299		18,661	25,332
Total Ducks	**28,934**	**18,818**	**71,304**	**85,107**	**66,199**	**176,817**	**207,218**	**121,078**	**97,921**	**3,722,611**	**4,596,007**
Brant											0
Snow/Blue Goose			590	1	11,321	2,467	452,839	30,137	43,134	699,753	1,240,242
Ross's Goose							1,000	857	5,100		6,957
Whitefront					4	7	138,867	1,780	23	102,400	243,081
Canada Goose	109,005	77,400	203,097	35,984	136,954	149,998	420,618	167,065	26,797	270,713	1,597,631
Total Geese	**109,005**	**77,400**	**203,687**	**35,985**	**148,279**	**152,472**	**1,013,324**	**199,839**	**75,054**	**1,072,866**	**3,087,911**
Tundra Swan			3						6		9
Trumpeter Swan			226	10	2	542					780
Mute Swan											0
Unident. Swans								1		1	2
Total Swans	**0**	**0**	**229**	**10**	**2**	**542**	**0**	**1**	**6**	**1**	**791**
Coot				280	901		2,374	3,288	10,086	420,935	437,864
Grand Total	**137,939**	**96,218**	**275,220**	**121,382**	**215,381**	**329,831**	**1,222,916**	**324,206**	**183,067**	**5,216,413**	**8,122,573**

D.E. SHARP *File S:\CF_D\PROJECTS\survey\MWS\CFMWS\CFMWS2000s.XLS* *04/04/07*

*In TX, SGPand TGP 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).

[1] TX did not survey the Rolling Plains and Sand Plains due to weather and equipment problems. Goose surveys on the coast were flown in January instead of in late December.

JANUARY 2006 MID-WINTER WATERFOWL SURVEY - CENTRAL FLYWAY

SPECIES	ND	MT	SD	WY	CO	NE	KS	OK	NM	TX	TOTAL
Mallard	5,084	8,700	46,016	59,963	122,581	277,888	199,824	152,774	30,202	793,776	1,696,808
Black Duck											0
Mottled Duck										18,396	18,396
Gadwall				1,023	2,501	2	2,585	6,430	913	842,898	856,352
Wigeon	1		30	1,205	2,604	6	6,931	261	4,245	215,010	230,293
G-W Teal				1,084	1,013	20	986	7,174	12,846	488,090	511,213
BW/CIN Teal					37		25		1	55,553	55,616
Shoveler					2,793	4	651	1,581	2,804	122,386	130,219
Pintail				296	606	672	679	7,341	16,979	830,578	857,151
Wood Duck			35		44	1	77	405		11,758	12,320
Whistling Duck											0
Total Dabblers	5,085	8,700	46,081	63,571	132,179	278,593	211,758	175,966	67,990	3,378,445	4,368,368
Redhead			13	28	353		1,255	204	1,431	456,308	459,592
Canvasback					84	1	65	236	376	16,562	17,324
Scaup					96	506	231	1,022	616	88,419	90,890
Ringneck			20	222	494	500	977	681	598	78,281	81,773
Goldeneye	95	3,380	2,462	6,792	1,167	858	1,931	51	730	622	18,088
Bufflehead	6		37	171	409	66	366	227	647	23,305	25,234
Ruddy Duck					2		8	100	75	69	254
Total Divers	101	3,380	2,532	7,213	2,605	1,931	4,833	2,521	4,473	663,566	693,155
Scoters											0
Oldsquaw											0
Mergansers	85	50	705	1,971	2,135	34,832	14,313	17,081	6,801	9,019	86,992
Unident. Ducks			22		24,089		8,705	355	259	30,330	63,760
Total Ducks	**5,271**	**12,130**	**49,340**	**72,755**	**161,008**	**315,356**	**239,609**	**195,923**	**79,523**	**4,081,360**	**5,212,275**
Brant											0
Snow/Blue Goose					26,643	67,572	218,966	25,296	40,023	561,978	940,478
Ross's Goose							2,406	606	5,605		8,617
Whitefront					1	1,076	129,995	1,086	11	171,924	304,093
Canada Goose	92,623	40,590	67,770	70,727	232,967	264,296	275,983	143,020	27,383	233,332	1,448,691
Total Geese	**92,623**	**40,590**	**67,770**	**70,727**	**259,611**	**332,944**	**627,350**	**170,008**	**73,022**	**967,234**	**2,701,879**
Tundra Swan			7		1		2		16		26
Trumpeter Swan			116	17	4	460	4	13	0		614
Mute Swan											0
Unident. Swans					3			1		6	10
Total Swans	**0**	**0**	**123**	**17**	**8**	**460**	**6**	**14**	**16**	**6**	**650**
Coot		450	50	387	409		653	3,301	6,564	279,060	290,874
Grand Total	**97,894**	**53,170**	**117,283**	**143,886**	**421,036**	**648,760**	**867,618**	**369,246**	**159,125**	**5,327,660**	**8,205,678**

D.E. SHARP *File S:\CF_D\PROJECTS\survey\MWS\CFMWS\CFMWS2000s.XLS* *06/13/06*

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

MID-WINTER GOOSE SURVEY
CENTRAL FLYWAY

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RESULTS OF 2015 WINTER GOOSE SURVEYS IN THE CENTRAL FLYWAY[1]

January 2015 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	111,883	5,797						117,680				117,680
No. Dakota					119,006			119,006				119,006
So. Dakota			1,300	5,200	78,856			85,356				85,356
Wyoming	22,858	1,535				13,384		37,777	1			37,778
Nebraska	1,769		200		236,716			238,685	1	17	16	238,719
Colorado	95,574	36,102						131,676	61,283			192,959
Kansas			3,290	10,000	12,825		261,728	287,843		405,149	2,706	695,698
N. Mexico	6,760	19,054					661	26,475	69,373			95,848
Oklahoma			254,425		8,443			262,868		98,928	1,538	363,334
Texas		485,212	21,223					506,435	112,595	544,808	65,006	1,228,844

*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		
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.

RESULTS OF 2014 WINTER GOOSE SURVEYS IN THE CENTRAL FLYWAY[1]

January 2014 Mid-winter Waterfowl Survey

	CANADA GEESE								LIGHT GEESE			
State	Hi-Line	West Tier CFAN [3]	East Tier CFAN [3]	EPP	WP/GP	RMP	Unclass.	Total	W-CF	M-C	W-F	TOTAL
Montana	72,995	3,475						76,470				76,470
No. Dakota					52,771			52,771				52,771
So. Dakota			2,028	900	138,236		1	141,165		6		141,171
Wyoming	79,259	8,318				37,894		125,471	254			125,725
Nebraska	5,308		3,889		339,820			349,017	7	38	18	349,080
Colorado	115,597	51,908						167,505	57,085		1	224,591
Kansas			16,787		31,342		146,737	194,866		520,876	3,311	719,053
N. Mexico	8,165	12,822					169	21,156	83,140			104,296
Oklahoma		8,600	159,090		6,649			174,339		133,285	5,262	312,886
Texas		294,091	6,274					300,365	124,350	305,593	18,414	748,722

*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]

	CANADA GEESE								LIGHT GEESE			
Year	Hi-Line	West Tier CFAN	East Tier CFAN	EPP	WP/GP	RMP	Unclass.	Total	W-CF	M-C	W-F	TOTAL
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 (SGP and TGP respecitively for historic purposes).

RESULTS OF 2013 WINTER GOOSE SURVEYS IN THE CENTRAL FLYWAY[1]

January 2013 Mid-winter Waterfowl Survey

State	CANADA GEESE								LIGHT GEESE		W-F	TOTAL
	Hi-Line	SGP	TGP	EPP	WP/GP	RMP	Unclass.	Total	W-CF	M-C		
Montana	133,000	6,980						139,980				139,980
No. Dakota					127,212			127,212				127,212
So. Dakota			92,740	2,375	321,664			416,779		80		416,859
Wyoming	47,799	4,440				23,617		75,856				75,856
Nebraska	4,349		269		275,705			280,323	18	6,754	70	287,165
Colorado	149,115	95,779						244,894	87,891		1	332,786
Kansas			42,894		39,664		36,022	118,580		661,928	5,825	786,333
N. Mexico	7,039	14,922					1,809	23,770	79,205			102,975
Oklahoma			113,168		4,573			117,741		60,907	1,853	180,501
Texas [3]		134,147	14,200					148,347	58,822	395,913	40,438	643,520

*In TX, SGP and TGP 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	SGP	TGP	EPP	WP/GP	RMP	Unclass.	Total	W-CF	M-C		
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	309,589	427,063	675	499,029	16,418	14,547	1,540,346	196,013	1,058,853	128,171	2,923,383
2010	239,855	290,734	417,044	9,500	462,794	10,046	15,790	1,445,763	238,084	618,794	161,119	2,463,760
2009	223,375	220,284	309,909	20,900	627,977	15,798	70,260	1,488,503	284,446	775,650	103,172	2,651,771
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.

RESULTS OF 2012 WINTER GOOSE SURVEYS IN THE CENTRAL FLYWAY[1]

January 2012 Mid-winter Waterfowl Survey

State	CANADA GEESE								LIGHT GEESE		W-F	TOTAL
	Hi-Line	SGP	TGP	EPP	WP/GP	RMP	Unclass.	Total	W-CF	M-C		
Montana	161,700	8,510						170,210	17			170,227
No. Dakota			19,387		170,410		400	190,197		19		190,216
So. Dakota			101,575	30,588	174,462			306,625		1,896		308,521
Wyoming	38,762	3,738				9,111		51,611	17			51,628
Nebraska	1,623	1,200	4,441		177,757			185,021	33	30,093	35	215,182
Colorado	131,080	93,968						225,048	51,409			276,457
Kansas			7,952	3,755	27,173		26,505	65,385		183,161	9,910	258,456
N. Mexico	6,271	15,671					224	22,166	65,650			87,816
Oklahoma			250,110		5,553			255,663		106,920	1,523	364,106
Texas [3]		169,708	67,321					237,029	88,205	294,338	67,344	686,916

*In TX, SGP and TGP 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	SGP	TGP	EPP	WP/GP	RMP	Unclass.	Total	W-CF	M-C		
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	309,589	427,063	675	499,029	16,418	14,547	1,540,346	196,013	1,058,853	128,171	2,923,383
2010	239,855	290,734	417,044	9,500	462,794	10,046	15,790	1,445,763	238,084	618,794	161,119	2,463,760
2009	223,375	220,284	309,909	20,900	627,977	15,798	70,260	1,488,503	284,446	775,650	103,172	2,651,771
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.

RESULTS OF 2011 WINTER GOOSE SURVEYS IN THE CENTRAL FLYWAY[1]

January 2011 Mid-winter Waterfowl Survey

State	CANADA GEESE								LIGHT GEESE		W-F	TOTAL
	Hi-Line	SGP	TGP	EPP	WP/GP	RMP	Unclass.	Total	W-CF	M-C		
Montana	67,335	3,250						70,585				70,585
No. Dakota					7,319			7,319				7,319
So. Dakota		4,100		675	93,289			98,064		12		98,076
Wyoming	69,375	5,708				16,418		91,501	6			91,507
Nebraska	4,202	405	3,455		304,312			312,374		9	32	312,415
Colorado	126,851	69,656						196,507	59,768			256,275
Kansas		3,084	37,808		87,213		13,083	141,188		229,937	4,168	375,293
N. Mexico	5,262	13,056					1,464	19,782	42,874		10	62,666
Oklahoma		800	317,073		6,896			324,769		169,272	10,700	504,741
Texas [3]		209,530	68,727					278,257	93,365	659,623	113,261	1,144,506

*In TX, SGP and TGP 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	SGP	TGP	EPP	WP/GP	RMP	Unclass.	Total	W-CF	M-C		
2011	273,025	309,589	427,063	675	499,029	16,418	14,547	1,540,346	196,013	1,058,853	128,171	2,923,383
2010	239,855	290,734	417,044	9,500	462,794	10,046	15,790	1,445,763	238,084	618,794	161,119	2,463,760
2009	223,375	220,284	309,909	20,900	627,977	15,798	70,260	1,488,503	284,446	775,650	103,172	2,651,771
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.

D.E. SHARP S:\CF_D\EXCEL\MWS\GOOSESURVEY\GSESUM2000s.XLS *4/22/11*

[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.

RESULTS OF 2010 WINTER GOOSE SURVEYS IN THE CENTRAL FLYWAY[1]

January 2010 Mid-winter Waterfowl Survey

State	CANADA GEESE								LIGHT GEESE		W-F	TOTAL
	Hi-Line	SGP	TGP	EPP	WP/GP	RMP	Unclass.	Total	W-CF	M-C		
Montana	62,456	3,000						65,456				65,456
No. Dakota					25,617			25,617				25,617
So. Dakota		1,000	343	9,500	66,070			76,913				76,913
Wyoming	42,716	1,780	0	0	0	10,046		54,542	3		0	54,545
Nebraska	3,141	529	2,222		237,449			243,341		7		243,348
Colorado	126,373	47,343						173,716	101,652		1	275,369
Kansas		1,443	36,052		111,325		14,489	163,309		112,217	46,118	321,644
N. Mexico	4,970	22,737					1,301	29,008	57,589			86,597
Oklahoma		5,200	291,751		22,531			319,482		61,677	18,383	399,542
Texas [3]		207,658	86,720					294,378	78,840	444,893	96,617	914,728

*In TX, SGP and TGP 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	SGP	TGP	EPP	WP/GP	RMP	Unclass.	Total	W-CF	M-C		
2010	239,656	290,690	417,088	9,500	462,992	10,046	15,790	1,445,762	238,084	618,794	161,119	2,463,759
2009	223,375	220,284	309,909	20,900	627,977	15,798	70,260	1,488,503	284,446	775,650	103,172	2,651,771
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.

D.E. SHARP S:\CF_D\EXCEL\MWS\GOOSESURVEY\GSESUM2000s.XLS *5/3/10*

[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.

RESULTS OF 2009 WINTER GOOSE SURVEYS IN THE CENTRAL FLYWAY[1]

January 2009 Mid-winter Waterfowl Survey

State	CANADA GEESE								LIGHT GEESE		W-F	TOTAL
	Hi-Line	SGP	TGP	EPP	WP/GP	RMP	Unclass.	Total	W-CF	M-C		
Montana	59,765	2,860						62,625				62,625
No. Dakota					9,726			9,726				9,726
So. Dakota		3,300	5,410	18,500	171,355			198,565		8		198,573
Wyoming	42,155	4,169				15,798		62,122	4			62,126
Nebraska	5,491	115	2,722		314,826			323,154		24	33	323,211
Colorado	108,462	66,949						175,411	154,736		1	330,148
Kansas		5,501	65,470	2,400	114,273		68,651	256,295		366,701	63,273	686,269
N. Mexico	7,502	20,443					1,609	29,554	55,038		8	84,600
Oklahoma			201,540		17,797			219,337		45,202	3,567	268,106
Texas [3]		116,947	34,767					151,714	74,668	363,715	36,290	626,387

*In TX, SGP and TGP 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	SGP	TGP	EPP	WP/GP	RMP	Unclass.	Total	W-CF	M-C		
2009	223,375	220,284	309,909	20,900	627,977	15,798	70,260	1,488,503	284,446	775,650	103,172	2,651,771
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.

D.E. SHARP S:\CF_D\EXCEL\MWS\GOOSESURVEY\GSESUM2000s.XLS *4/14/09*

[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.

RESULTS OF 2008 WINTER GOOSE SURVEYS IN THE CENTRAL FLYWAY[1]

January 2008 Mid-winter Waterfowl Survey

State	CANADA GEESE								LIGHT GEESE		W-F	TOTAL
	Hi-Line	SGP	TGP	EPP	WP/GP	RMP	Unclass.	Total	W-CF	M-C		
Montana	184,555	7,640						192,195				192,195
No. Dakota					174,853		7	174,860				174,860
So. Dakota		950	31,430	50	82,575			115,005		505	1	115,511
Wyoming	9,876	606				9,188		19,670	2			19,672
Nebraska	1,698		2,671		151,633			156,002		82		156,084
Colorado	68,010	60,242						128,252	35,775			164,027
Kansas		122	29,618		248,128		20,360	298,228		266,512	38,031	602,771
N. Mexico	5,150	21,734					1,422	28,306	57,340		7	85,653
Oklahoma			215,201		12,335			227,536		48,801	6,119	282,456
Texas [3]		121,127	123,798					244,925	95,398	311,526	38,778	690,627

*In TX, SGP and TGP 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	SGP	TGP	EPP	WP/GP	RMP	Unclass.	Total	W-CF	M-C		
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	105,899	826,982	213,343	2,752,241
2002	217,145	160,873	504,708	8,100	710,260	7,396	16,873	1,625,355	99,874	675,454	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.

RESULTS OF 2007 WINTER GOOSE SURVEYS IN THE CENTRAL FLYWAY[1]

January 2007 Mid-winter Waterfowl Survey

State	CANADA GEESE								LIGHT GEESE		W-F	TOTAL
	Hi-Line	SGP	TGP	EPP	WP/GP	RMP	Unclass.	Total	W-CF	M-C		
Montana	75,000	2,400						77,400				77,400
No. Dakota			1,536		107,469			109,005				109,005
So. Dakota		2,348	34,700	43,700	122,349			203,097		590		203,687
Wyoming	15,418	1,054				19,512		35,984	1			35,985
Nebraska	716	1,600	4,968		142,714			149,998	454	2,013	7	152,472
Colorado	85,323	51,631						136,954	11,321		4	148,279
Kansas		825	317,622		66,180		35,991	420,618		453,839	138,867	1,013,324
N. Mexico	3,758	21,617					1,422	26,797	48,234		23	75,054
Oklahoma		9,150	150,668		7,247			167,065		30,994	1,780	199,839
Texas [3]		99,906	170,807					270,713	110,632	589,121	102,400	1,072,866

*In TX, SGP and TGP 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	SGP	TGP	EPP	WP/GP	RMP	Unclass.	Total	W-CF	M-C		
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	105,899	826,982	213,343	2,752,241
2002	217,145	160,873	504,708	8,100	710,260	7,396	16,873	1,625,355	99,874	675,454	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	146,386	1,203,360	194,845	2,860,797
1993-94	164,334	312,855	224,200	1,800	272,487		41,916	1,017,592	84,874	1,015,169	188,878	2,306,513
1992-93	117,294	270,495	235,328	26,600	318,029		60,622	1,028,368	45,145	895,951	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] TX did not survey the Rolling Plains and Sand Plains due to weather and equipment problems. Goose surveys on the coast were flown in January instead of in late December.

RESULTS OF 2006 WINTER GOOSE SURVEYS IN THE CENTRAL FLYWAY[1]

January 2006 Mid-winter Waterfowl Survey

State	CANADA GEESE								LIGHT GEESE		W-F	TOTAL
	Hi-Line	SGP	TGP	EPP	WP/GP	RMP	Unclass.	Total	W-CF	M-C		
Montana	37,570	3,020						40,590				40,590
No. Dakota					92,623			92,623				92,623
So. Dakota		910	1,750	2,160	62,950			67,770				67,770
Wyoming	56,184	7,660				6,883		70,727				70,727
Nebraska	2,521	6,492	39,229		216,054			264,296		67,572	1,076	332,944
Colorado	143,060	89,907						232,967	26,643		1	259,611
Kansas		2,820	202,905		58,772		11,486	275,983		221,372	129,995	627,350
N. Mexico	7,930	17,504					1,949	27,383	45,628		11	73,022
Oklahoma			129,009		14,011			143,020		25,902	1,086	170,008
Texas		106,424	126,908					233,332	68,316	493,662	171,924	967,234

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

Central Flyway Goose Population Survey Results[2]

Year	CANADA GEESE								LIGHT GEESE		W-F	TOTAL
	Hi-Line	SGP	TGP	EPP	WP/GP	RMP	Unclass.	Total	W-CF	M-C		
2006	247,265	234,737	499,801	2,160	444,410	6,883	13,435	1,448,691	140,587	808,508	304,093	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	105,899	826,982	213,343	2,752,241
2002	217,145	160,873	504,708	8,100	710,260	7,396	16,873	1,625,355	99,874	675,454	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	146,386	1,203,360	194,845	2,860,797
1993-94	164,334	312,855	224,200	1,800	272,487		41,916	1,017,592	84,874	1,015,169	188,878	2,306,513
1992-93	117,294	270,495	235,328	26,600	318,029		60,622	1,028,368	45,145	895,951	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.