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Migratory Bird Hunting Activity and Harvest During the 2008 and 2009 Hunting Seasons

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Abstract: National surveys of migratory bird hunters were conducted during the 2008 and 2009 hunting seasons. Hunters of the following types of migratory birds were surveyed: waterfowl (family *Anatidae*), doves (mourning [*Zenaida macroura*] and white-winged [*Z. asiatica*]), band-tailed pigeon (*Patagioenas fasciata*), American woodcock (*Scolopax minor*), Wilson's snipe (*Gallinago delicata*), American coot (*Fulica americana*), gallinules (Common moorhen [*Gallinula chloropus*] and purple gallinule [*Porzana carolina*]), and rails (king rail [*Rallus elegans*], clapper rail [*R. longirostris*], Virginia rail [*R. limicola*], and sora [*Coturnicops noveboracensis*]). About 1.2 million waterfowl hunters harvested 13,635,700 ($\pm 4\%$) ducks and 3,792,600 ($\pm 5\%$) geese in 2008, and about 1.1 million waterfowl hunters harvested 13,139,800 ($\pm 4\%$) ducks and 3,327,000 ($\pm 5\%$) geese in 2009. Mallard (*Anas platyrhynchos*), green-winged teal (*A. crecca*), gadwall (*A. strepera*), blue-winged/cinnamon teal (*A. discors*), and wood duck (*Aix sponsa*) were the 5 most-harvested duck species in the U.S., and Canada goose (*Branta canadensis*) was the predominant goose species in the goose harvest. About 994,000 dove hunters harvested 17,400,000 ($\pm 5\%$) mourning doves in 2008 and 974,400 hunters harvested 17,400,000 ($\pm 6\%$) in 2009. Woodcock hunters numbered about 130,000 in 2008 and 109,000 in 2009, and harvested 279,000 ($\pm 15\%$) birds in 2008 and 238,400 ($\pm 15\%$) in 2009. About 27,400 people hunted snipe in 2008 and 29,400 in 2009, and they harvested 95,500 ($\pm 32\%$) and 83,500 ($\pm 45\%$) snipe in 2008 and 2009, respectively. Coot hunters (about 31,100 in 2008 and 2009) harvested 275,900 ($\pm 43\%$) coots in 2008 and 219,000 ($\pm 34\%$) in 2009. Gallinule hunters (about 3,700 in 2008 and 2,300 in 2009) harvested 13,200 ($\pm 98\%$) gallinules in 2008 and 7,400 ($\pm 66\%$) in 2009. About 11,200 rail hunters harvested 45,000 ($\pm 43\%$) rails in 2008 and 7,800 rail hunters harvested 36,000 ($\pm 62\%$) rails in 2009.

Introduction

Since the 1952-53 hunting season, the U.S. Fish and Wildlife Service (FWS) has conducted a survey of Federal Duck Stamp purchasers to estimate waterfowl hunter activity and harvest in the United States. That survey was conducted annually through the 2001-02 hunting season, after which it was replaced by a new migratory game bird harvest survey system. In 1992, the FWS and State Fish and Wildlife Agencies (States) established the Migratory Bird Harvest Information Program (HIP), which was fully operational nationwide by 1999 (Elden et al. 2002). This cooperative State-Federal program requires licensed migratory game bird hunters to register annually in each state in which they hunt. Each State is responsible for collecting the name, address, and date of birth from each migratory bird hunter, asking each of them a series of general screening questions about their his/her hunting success the previous year, and sending all of this information to the FWS. The States are also responsible for providing the migratory bird hunters with proof of compliance to carry while they are hunting. The FWS is responsible for using these data to conduct annual national migratory game bird hunter activity and harvest surveys.

This report presents hunter activity and harvest estimates from the HIP surveys for the 2008-09 and 2009-10 hunting seasons. These estimates are preliminary, pending (1) final counts of the number of HIP registrants in each state each season, and (2) complete audits of all survey response data.

HIP Survey Design and Methods

Sample Frame. The HIP sample frame consisted of people who identified themselves as potential migratory game bird hunters when they purchased State hunting licenses. The States forwarded the sample frame data to the FWS either weekly or twice a month, starting in July and continuing through the end of their migratory bird hunting seasons. People who hunted migratory birds in more than one state had to comply with the HIP requirement in each state in which they hunted. Thus, the sample frame was specific to each state.

Stratification and Sample Selection. States asked each migratory bird hunter a series of short screening questions about the species they hunted and their hunting success the previous year. The list of species or species-groups involved (dependent on seasons in each state) included ducks, sea ducks, geese, brant, doves, band-tailed pigeons, woodcock, coots and/or snipe, rails and/or gallinules, and sandhill cranes (only in Alaska). The FWS used this prior-year information as a predictor of their current year hunting activity and success to assign each hunter to a success/activity stratum for each of the 10 species or species-groups based on his or her answers to the screening questions. From each State list the FWS selected stratified samples for each species or species-group, sampling the small group of active/very successful hunters at a high rate, the larger group of less successful hunters at a lower rate, and the very large group of hunters who rarely if ever hunt the species or species-group at a very low rate. The FWS conducted 5 separate harvest surveys to estimate hunter activity and harvest of: (1) waterfowl (ducks, sea ducks, geese, and brant), (2) doves and band-tailed pigeons, (3) woodcock, (4) snipe, rails, gallinules, and coots, and (5) sandhill cranes in Alaska.

Survey Methodology. Contact before or early in the hunting season, and a daily hunting diary format were used in an effort to reduce memory and prestige bias, both of which result in overestimation (Atwood 1956). Hunters selected for the surveys were asked to record the date of each hunt, the state and county where they hunted, and how many birds of various species or species-groups they personally bagged that day. As a check on recording and for hunters who forgot to record their daily hunting information throughout the season, or did not receive the form until after the hunting season began, space was provided on the form to record season totals. Hunter response was voluntary.

Soon after the initial batch of names and addresses was received from a State, stratified samples were selected according to predetermined sampling rates. All surveys were conducted using Dillman's Total Design Method for mail surveys (Dillman 1978, Dillman 1991) to maximize survey response and ensure quality and timely responses. A survey packet including a cover letter and a survey form for recording daily hunting activity was sent to each selected hunter within one to two weeks after his/her name was received. The sample selection and initial mailing process continued with each subsequent batch of names and addresses (roughly twice per month), with the last initial mailing occurring on or shortly after the date the season closed in the state. Postcards were sent at the close of the season reminding sampled hunters to return their completed survey forms and thanking them for their help. About 3 weeks after this mailing, a follow-up packet with an additional form was sent to each hunter who had not yet responded. Finally, 3-4 weeks later, an additional follow-up packet was sent to the remaining non-respondents.

Analysis. Standard analyses for stratified samples (Cochran 1977, Steele and Torrie 1980) were used to obtain estimates of harvest and hunter activity for each state and species or species-group combination. The proportion of respondents who hunted (active hunters), their average days hunted and their average seasonal harvest were calculated and the corresponding totals estimated (active hunters, days hunted, birds bagged) at the state level. Variance estimates for these parameters were also calculated and converted to 95% confidence intervals. The number of days afield and the number of birds harvested were also estimated at the management unit and national levels, along with their corresponding 95% confidence intervals. However, the total number of active hunters (and any averages per active hunter) could not be estimated at the management unit or national levels because some people hunted migratory birds in more than one state. To get total numbers at larger geographic scales, we summed the number of active hunters in each state. This may overestimate the total number of active hunters because hunters are required to HIP register in each state in which they hunt migratory birds.

Parts Collection Surveys

The FWS has conducted a cooperative Waterfowl Parts Survey annually to estimate the species, age, and sex composition of the duck harvest since 1961 and the species and age composition of the goose harvest since 1962. Hunters who agreed to participate in this survey were provided with large, postage-paid “wing envelopes” and were asked to send us a wing from each duck, brant, and coot they shot and the tail feathers and primary feather tips from each goose they shot throughout the hunting season. They were also asked to report the state, county, and date of harvest for each specimen they submitted. After the waterfowl hunting seasons ended, FWS and State biologists examined the specimens to determine the species, age, and sex of the birds.

Species composition estimates derived from the Waterfowl Parts Survey were combined with harvest estimates from the HIP waterfowl survey to calculate species-specific duck and goose harvest estimates. Similarly, date information provided by Waterfowl Parts Survey participants was combined with HIP survey results to estimate special September season duck and goose harvests. Estimates of the number of immatures per adult in the harvest (age ratio), and the number of males per female (sex ratio) were calculated for each species and state. Because sampling intensity varied among states, state ratios were weighted by harvest estimates from the HIP waterfowl survey to obtain flyway and U.S. ratios.

The FWS has also conducted a Woodcock Wing Survey annually since 1977, primarily to estimate the age and sex composition of the woodcock harvest. Age and sex ratio estimates obtained from the woodcock wings collected in 1963-2009 were reported in “American woodcock population status, 2010” (Cooper and Parker 2010). This survey was expanded in 1997 to include rail wings to determine the species composition of the rail harvest, and band-tailed pigeon wings to obtain age ratio estimates.

Survey Results

Waterfowl Hunter Activity and Harvest (Tables 1-7, Figures 1-3). HIP waterfowl harvest survey sample sizes and response rates were 74,683 hunters and 54% for the 2008-09 survey,

and 61,434 hunters and a 52% for the 2009-10 survey. Species-specific estimates for ducks and geese (Table 1A-E) are presented by flyway. We were unable to split the estimates for Colorado, Montana, New Mexico, and Wyoming into their Central and Pacific Flyway portions for this report, so we arbitrarily assigned all of Colorado, New Mexico, and Wyoming to the Central Flyway and all of Montana to the Pacific Flyway. However, the Waterfowl Parts Collection Survey enabled us to provide Flyway-specific point estimates of duck and goose harvest for those four states; those point estimates are shown in Table 2.

Sea duck hunter activity and harvest were estimated separately from other ducks for states that had special sea duck seasons or regulations (Table 3). Likewise, brant hunter activity and harvest along the Atlantic and Pacific coasts was estimated separately and reported in Table 4. Sea duck and brant harvest estimates are also shown in the species-specific waterfowl estimates in Table 1, but the estimates of sea ducks and brant days afield and active hunters shown in Tables 3 and 4 are not included in the estimates duck and goose days afield, and active duck and goose hunters that are shown in Table 1.

Estimates for special September duck seasons are given in Table 5, and Table 6 shows estimates of Canada goose harvest during special resident goose seasons compared to regular season harvest. Table 7 summarizes the waterfowl harvest in Canada; those data were provided by the Canadian Wildlife Service, which conducts annual surveys similar to those conducted in the U.S.

Long-term trends duck harvest, and goose harvest since 1961 are shown in Figures 1-2. The curves are locally weighted regression (lowess) lines (Cleveland and Devlin 1988) that fit a pattern to the majority of the estimates and identify points that deviate from that pattern. These figures show one lowess line and point estimates for the Federal Duck Stamp-based survey's estimates from 1961-2001 and a separate lowess line and point estimates for the HIP survey estimates for 1999-2009.

Waterfowl Age and Sex Ratios (Tables 8-12, Figures 3-6). The 2008-09 Waterfowl Parts Survey collected 79,588 duck wings and 20,965 goose tails and primary tips; the 2009-10 sample consisted of 78,113 duck wings and 18,120 goose tails and primary wing tips. State-specific mallard age ratios and flyway-level age ratios for other ducks species are reported in Tables 8 and 9, respectively, followed by state-specific mallard sex ratios (Table 10) and flyway-level sex ratios for other duck species (Table 11). Table 12 gives age ratios for geese. Figures 3-6 show the long-term trends in age ratios of mallards (Figure 3), Northern pintails (Figure 4), American black ducks and wood ducks (Figure 5) and lesser scaup (Figure 6).

Dove and Band-tailed Pigeon Hunter Activity and Harvest (Tables 13-15). The dove and band-tailed pigeon estimates were based on samples of 43,075 hunters in 2008-09 (58% response rate) and 37,113 hunters in 2009-10 (57% response rate). Estimated numbers of active hunters, days afield, harvest and birds harvested per hunter are given in Table 13 for mourning doves, Table 14 for white-winged doves and Table 15 for band-tailed pigeons.

Woodcock Hunter Activity and Harvest (Table 16). Results of the HIP woodcock harvest survey are presented in Table 16. The 2008-09 survey had a sample size of 20,521 hunters and a

61% response rate; the 2009-10 survey sample size and response rate were 18,967 hunters and 60%.

Snipe, Coot, Gallinule, and Rail Hunter Activity and Harvest (Tables 17-21). The sample for the 2008-09 snipe, coot, gallinule, and rail harvest survey was 22,921 hunters (58% response rate) and 20,410 hunters (57% response rate) for the 2008-09 survey. Tables 17-20 give the estimates for Wilson's snipe (Table 17), American coot (Table 18), gallinules (Table 19; all species combined) and rails (Table 20; all species combined).

We believe that the number of rail wings collected each year is too small to provide reliable annual species composition estimates, even at the flyway and national levels. Therefore, we used 5-year running averages to obtain species-specific rail harvest estimates (Table 21). The 2008-09 estimates are based on the species composition of 2,556 rail wings collected from 2004-2008, and the 2008-09 estimates are based on 2,904 rail wings collected from 2005-2009.

Alaska Sandhill Crane Hunter Activity and Harvest Estimates. The estimates presented below were derived from surveys of 611 (2008-09, 67% response rate) and 651 (2009-10, 69% response rate) Alaska migratory bird hunters. For Alaska's 2008 season, we estimated that 800 active sandhill crane hunters spent 3,600 days hunting cranes and harvested 1,700 birds. In 2009, an estimated 800 active hunters spent 3,300 days hunting cranes and harvested 900 birds.

Mid-continent sandhill crane hunting activity and harvest in the Central Flyway states are estimated in a separate annual survey. Results of that survey for the 2008 and 2009 seasons were reported in, "Status and harvests of sandhill cranes: Mid-continent, Rocky Mountain, and Lower Colorado River Valley populations" (Kruse et al. 2010).

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The HIP and Waterfowl Parts surveys could not be conducted without the close cooperation of participating States. We appreciate the efforts of all State personnel who were involved with the HIP at various levels, as well as all who helped with the Waterfowl Parts Surveys at one of the 4 "wingbees". The names of the people who were primarily responsible for coordinating the HIP program in each state are included in Appendix A. The names of wingbee participants are in Appendix B. We also would like to acknowledge Victor Elam at the Flint Hills NWR for providing support for the Central Flyway wingbee and Debbie Anderson at the Coleman National Fish Hatchery for providing support for the Pacific Flyway wingbee.

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Table 1A. Preliminary estimates of waterfowl harvest and hunter activity in the Atlantic Flyway during the 2008 and 2009 hunting seasons.

Duck Species Composition	Connecticut		Delaware		Florida	
	2008	2009	2008	2009	2008	2009
Mallard	13,153	6,310	22,625	17,987	316	308
Domestic Mallard	153	0	97	186	105	1,026
Black Duck	3,298	1,702	7,283	6,058	105	205
Mallard x Black Duck Hybrid	268	142	0	746	316	0
Mottled Duck	0	0	0	0	14,134	14,261
Gadwall	115	248	3,884	1,678	1,477	1,026
Wigeon	192	142	1,165	1,771	1,688	4,617
Green-winged Teal	2,224	922	11,361	5,685	15,611	11,491
Blue-winged/Cinnamon Teal	0	0	0	373	59,912	77,973
Northern Shoveler	0	0	583	1,305	3,164	3,283
Northern Pintail	115	35	2,428	1,771	1,160	205
Wood Duck	2,378	2,092	3,496	2,703	8,649	8,515
Redhead	0	35	97	93	527	821
Canvasback	0	0	0	186	0	0
Greater Scaup	230	35	97	0	211	410
Lesser Scaup	77	35	680	93	3,270	7,284
Ring-necked Duck	345	71	874	559	60,650	28,624
Goldeneyes	345	142	97	0	0	0
Bufflehead	1,074	957	3,787	3,262	738	1,744
Ruddy Duck	0	0	583	0	1,477	923
Long-tailed Duck	3,100	1,673	200	145	0	0
Eiders	0	223	0	0	0	0
Scoters	0	1,004	1,500	1,455	0	0
Hooded Merganser	614	284	486	466	1,266	718
Other Mergansers	1,419	248	680	280	105	410
Other Ducks	0	0	0	0	2,215	10,054
Total Duck Harvest	29,100±20%	16,300±39%	62,000±22%	46,800±39%	177,100±19%	173,900±27%
Total Active Duck Hunters ^a	2,700±15%	2,100±22%	4,400±13%	3,600±15%	12,700±21%	12,200±21%
Total Duck Hunter Days Afield ^b	18,300±18%	10,900±25%	36,500±19%	25,100±18%	67,300±19%	75,600±24%
Seasonal Duck Harvest Per Hunter	10.7±25%	7.8±45%	14.2±26%	13.0±30%	13.9±28%	14.2±34%
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Goose Species Composition						
Canada Goose	22,839	9,075	28,637	24,873	0	2,500
Snow Goose	61	0	14,318	13,883	0	0
Blue Goose	0	0	516	0	0	0
Ross's Goose	0	0	129	145	0	0
White-fronted Goose	0	25	0	0	0	0
Brant	300	500	1,500	900	0	0
Other Geese	0	0	0	0	0	0
Total Goose Harvest	23,200±26%	9,600±26%	45,100±39%	39,800±26%	0	2,500±105%
Total Active Goose Hunters ^b	2,400±16%	1,600±24%	3,900±13%	4,000±14%	300±138%	1,100±74%
Total Goose Hunter Days Afield ^b	17,700±25%	7,700±26%	29,600±19%	27,200±22%	600±138%	4,000±85%
Seasonal Goose Harvest Per Hunter	9.6±31%	5.9±36%	11.6±41%	10.0±29%	0	2.3±128%
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Active Waterfowl Hunters	3,700±12%	2,700±19%	5,500±11%	5,100±12%	12,700±21%	12,200±21%
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Sample Sizes						
Duck Wings	688	404	638	496	1,679	1,695
Goose Tails	432	381	353	283	1	1

Table 1A. Preliminary estimates of waterfowl harvest and hunter activity in the Atlantic Flyway during the 2008 and 2009 hunting seasons.

Duck Species Composition	Georgia		Maine		Maryland	
	2008	2009	2008	2009	2008	2009
Mallard	8,863	19,080	11,265	12,711	61,634	49,563
Domestic Mallard	277	931	136	73	555	587
Black Duck	554	0	4,683	5,364	12,586	10,851
Mallard x Black Duck Hybrid	0	0	475	294	925	440
Mottled Duck	0	2,327	0	0	0	0
Gadwall	2,493	5,119	68	0	3,214	2,493
Wigeon	0	1,861	271	367	2,406	1,760
Green-winged Teal	1,108	10,238	7,872	4,923	16,288	13,051
Blue-winged/Cinnamon Teal	277	8,842	611	367	2,591	3,959
Northern Shoveler	0	0	68	0	740	1,026
Northern Pintail	277	2,792	136	147	1,296	1,026
Wood Duck	89,186	64,685	3,461	7,641	7,589	11,731
Redhead	554	1,861	0	73	185	587
Canvasback	0	465	68	0	0	3,079
Greater Scaup	0	465	0	73	4,442	2,346
Lesser Scaup	1,662	465	339	220	4,442	3,813
Ring-necked Duck	10,802	24,664	747	1,763	2,776	1,906
Goldeneyes	0	0	2,307	1,469	740	1,026
Bufflehead	2,216	931	2,172	2,939	22,766	14,077
Ruddy Duck	277	465	0	0	2,221	1,320
Long-tailed Duck	0	0	4,305	656	8,300	4,830
Eiders	0	0	11,143	4,355	0	0
Scoters	0	0	4,052	890	8,300	11,270
Hooded Merganser	3,878	6,980	1,764	2,498	2,591	2,200
Other Mergansers	0	1,396	1,289	1,176	1,296	1,760
Other Ducks	277	931	0	0	185	0
Total Duck Harvest	122,700±63%	154,500±29%	57,200±38%	48,000±92%	168,068±21%	144,700±18%
Total Active Duck Hunters ^a	9,000±26%	24,000±27%	5,700±15%	3,900±30%	16,600±11%	17,300±11%
Total Duck Hunter Days Afield ^b	61,100±57%	122,200±27%	30,600±20%	25,800±52%	88,700±18%	85,900±13%
Seasonal Duck Harvest Per Hunter	13.7±68%	6.4±40%	10.0±41%	12.2±97%	10.1±24%	8.4±21%
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Goose Species Composition						
Canada Goose	32,100	73,315	13,800	4,700	213,678	162,973
Snow Goose	0	0	0	0	15,881	4,330
Blue Goose	0	0	0	0	241	0
Ross's Goose	0	0	0	0	0	0
White-fronted Goose	0	2,485	0	0	0	0
Brant	0	0	0	0	1,800	2,200
Other Geese	0	0	0	0	0	197
Total Goose Harvest	32,100±66%	75,800±63%	13,800±50%	4,700±59%	231,600±13%	169,700±13%
Total Active Goose Hunters ^b	7,800±31%	11,700±36%	3,700±19%	1,600±49%	28,200±7%	24,200±9%
Total Goose Hunter Days Afield ^b	26,800±41%	72,900±50%	17,300±28%	8,700±56%	160,200±12%	136,800±13%
Seasonal Goose Harvest Per Hunter	4.1±73%	6.5±72%	3.7±54%	3.0±77%	8.2±15%	7.0±16%
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Active Waterfowl Hunters	9,400±26%	26,400±26%	6,600±14%	4,900±27%	33,300±6%	30,300±6%
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Duck Wings	443	332	633	699	873	947
Goose Tails	67	61	172	195	956	857

Table 1A. Preliminary estimates of waterfowl harvest and hunter activity in the Atlantic Flyway during the 2008 and 2009 hunting seasons.

Duck Species Composition	Massachusetts		New Hampshire		New Jersey	
	2008	2009	2008	2009	2008	2009
Mallard	11,358	8,458	4,569	11,240	14,427	20,369
Domestic Mallard	0	0	104	0	158	163
Black Duck	5,200	4,520	1,194	3,710	7,266	9,940
Mallard x Black Duck Hybrid	151	387	363	327	579	733
Mottled Duck	0	0	0	0	0	0
Gadwall	0	0	52	0	474	1,792
Wigeon	202	65	104	0	316	896
Green-winged Teal	1,313	1,485	1,090	1,091	7,214	7,822
Blue-winged/Cinnamon Teal	0	0	0	109	0	81
Northern Shoveler	0	65	0	0	211	489
Northern Pintail	404	129	52	0	1,158	407
Wood Duck	3,029	1,550	5,555	7,203	6,003	10,103
Redhead	0	0	0	0	0	0
Canvasback	0	0	0	0	0	163
Greater Scaup	0	65	0	0	632	1,548
Lesser Scaup	0	194	0	0	579	163
Ring-necked Duck	101	129	363	327	316	570
Goldeneyes	303	129	363	0	53	81
Bufflehead	2,322	2,066	467	546	5,581	4,807
Ruddy Duck	50	0	0	0	421	163
Long-tailed Duck	1,056	0	103	0	891	254
Eiders	3,921	8,408	138	233	0	0
Scoters	4,223	892	859	1,167	1,209	3,046
Hooded Merganser	404	710	208	437	2,001	1,955
Other Mergansers	1,363	1,550	415	1,310	1,211	652
Other Ducks	0	0	0	0	0	0
Total Duck Harvest	35,400±23%	30,800±23%	16,000±15%	27,700±20%	50,700±19%	66,200±24%
Total Active Duck Hunters ^a	3,700±12%	3,700±13%	2,800±12%	5,200±17%	4,400±9%	7,400±12%
Total Duck Hunter Days Afield ^b	21,800±19%	19,200±16%	16,300±14%	28,700±18%	32,300±15%	55,200±23%
Seasonal Duck Harvest Per Hunter	9.5±26%	8.4±27%	5.8±19%	5.3±27%	11.5±21%	8.9±27%
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Goose Species Composition						
Canada Goose	13,135	16,500	7,000	11,400	30,352	47,312
Snow Goose	65	0	0	0	5,148	878
Blue Goose	0	0	0	0	0	0
Ross's Goose	0	0	0	0	0	0
White-fronted Goose	0	0	0	0	0	0
Brant	1,100	400	50	0	7,800	8,300
Other Geese	0	0	0	0	0	110
Total Goose Harvest	14,300±30%	16,900±41%	7,050±21%	11,400±21%	43,300±25%	56,600±34%
Total Active Goose Hunters ^b	2,700±14%	2,700±15%	2,400±12%	4,400±18%	3,400±11%	5,900±15%
Total Goose Hunter Days Afield ^b	14,100±19%	15,500±26%	12,200±15%	23,700±22%	19,900±18%	34,900±28%
Seasonal Goose Harvest Per Hunter	5.4±33%	6.4±44%	2.9±24%	2.6±28%	12.7±28%	9.6±37%
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Active Waterfowl Hunters	4,600±10%	4,500±11%	3,200±11%	6,100±16%	5,600±7%	8,900±10%
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Sample Sizes						
Duck Wings	580	406	319	259	956	785
Goose Tails	428	371	161	151	655	493

Table 1A. Preliminary estimates of waterfowl harvest and hunter activity in the Atlantic Flyway during the 2008 and 2009 hunting seasons.

Duck Species Composition	New York		North Carolina		Pennsylvania	
	2008	2009	2008	2009	2008	2009
Mallard	114,402	91,290	39,742	36,753	94,187	56,316
Domestic Mallard	581	194	872	877	1,129	191
Black Duck	21,238	17,929	3,102	3,315	7,903	5,059
Mallard x Black Duck Hybrid	1,659	1,841	388	390	1,290	477
Mottled Duck	0	0	97	0	0	0
Gadwall	1,244	1,938	9,112	6,142	1,129	1,145
Wigeon	2,157	1,938	12,504	12,478	1,774	573
Green-winged Teal	14,103	11,823	27,044	23,397	9,999	6,491
Blue-winged/Cinnamon Teal	913	1,066	485	2,535	323	1,623
Northern Shoveler	498	388	3,586	2,827	161	191
Northern Pintail	2,821	1,647	4,459	3,899	806	477
Wood Duck	19,993	21,805	56,996	56,055	38,868	41,808
Redhead	3,816	3,973	1,842	3,120	0	286
Canvasback	0	872	0	390	0	95
Greater Scaup	3,567	3,489	679	682	161	286
Lesser Scaup	2,821	2,326	7,173	12,186	968	1,527
Ring-necked Duck	996	2,714	16,478	16,183	484	477
Goldeneyes	8,711	7,462	0	97	1,290	286
Bufflehead	12,693	11,629	13,377	14,038	6,451	3,436
Ruddy Duck	83	0	5,234	4,582	484	477
Long-tailed Duck	9,100	5,707	194	0	0	0
Eiders	0	1,279	0	0	0	0
Scoters	1,400	5,314	7,464	6,337	161	382
Hooded Merganser	4,231	4,070	6,688	6,824	2,903	955
Other Mergansers	5,973	6,105	388	292	6,129	3,341
Other Ducks	0	0	97	0	0	0
Total Duck Harvest	233,000±8%	206,800±12%	218,000±18%	213,400±19%	176,600±37%	125,900±18%
Total Active Duck Hunters^a	21,500±5%	21,700±6%	20,700±14%	21,500±16%	26,300±16%	25,200±15%
Total Duck Hunter Days Afield^b	127,300±7%	130,500±8%	120,700±16%	126,800±15%	130,000±18%	118,200±15%
Seasonal Duck Harvest Per Hunter	10.8±10%	9.5±13%	10.5±23%	9.9±25%	6.7±40%	5.0±23%
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Goose Species Composition						
Canada Goose	163,338	171,956	46,474	50,006	231,590	161,933
Snow Goose	6,656	3,317	726	0	10,009	6,719
Blue Goose	106	0	0	0	0	112
Ross's Goose	0	0	0	0	0	0
White-fronted Goose	0	0	0	0	0	0
Brant	7,700	7,100	0	11,400	0	336
Other Geese	0	128	0	294	0	0
Total Goose Harvest	177,800±10%	182,500±14%	47,200±28%	61,700±36%	241,600±26%	169,100±18%
Total Active Goose Hunters^b	19,300±5%	19,000±6%	12,700±19%	11,500±22%	37,800±11%	30,500±12%
Total Goose Hunter Days Afield^b	114,700±8%	113,600±9%	47,600±26%	51,400±36%	204,500±14%	167,500±16%
Seasonal Goose Harvest Per Hunter	9.2±11%	9.6±15%	4.0±34%	5.4±42%	6.4±29%	5.5±22%
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Active Waterfowl Hunters	26,700±4%	26,400±5%	24,200±14%	22,600±16%	42,200±12%	41,400±12%
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Sample Sizes						
Duck Wings	2,772	2,132	2,249	2,189	1,095	1,319
Goose Tails	1,783	1,503	130	177	1,570	1,510

Table 1A. Preliminary estimates of waterfowl harvest and hunter activity in the Atlantic Flyway during the 2008 and 2009 hunting seasons.

Duck Species Composition	Rhode Island		South Carolina		Vermont	
	2008	2009	2008	2009	2008	2009
Mallard	1,641	1,518	25,192	34,504	17,066	10,117
Domestic Mallard	0	0	1,366	4,631	56	52
Black Duck	974	1,029	1,214	1,389	2,224	1,721
Mallard x Black Duck Hybrid	85	147	152	232	167	52
Mottled Duck	0	0	759	2,547	0	0
Gadwall	188	24	6,678	6,021	111	0
Wigeon	461	196	3,339	5,326	167	0
Green-winged Teal	137	73	18,970	26,167	4,336	3,285
Blue-winged/Cinnamon Teal	0	0	6,526	15,978	56	313
Northern Shoveler	0	49	1,973	8,568	56	104
Northern Pintail	0	0	2,276	463	500	469
Wood Duck	154	416	91,664	99,343	6,560	4,589
Redhead	34	0	304	926	0	0
Canvasback	0	0	0	463	0	0
Greater Scaup	85	147	304	463	111	52
Lesser Scaup	17	49	1,518	3,010	556	261
Ring-necked Duck	17	49	23,675	27,325	667	1,304
Goldeneyes	154	98	0	0	1,334	1,773
Bufflehead	478	563	1,821	3,474	56	417
Ruddy Duck	0	0	152	463	0	0
Long-tailed Duck	103	0	0	0	0	52
Eiders	655	1,639	0	0	0	0
Scoters	241	61	0	0	56	0
Hooded Merganser	427	612	5,160	7,410	612	417
Other Mergansers	547	1,029	304	463	111	469
Other Ducks	0	0	0	232	0	52
Total Duck Harvest	6,400±25%	7,700±29%	193,300±19%	249,400±25%	34,800±19%	25,500±31%
Total Active Duck Hunters^a	700±13%	800±20%	22,100±16%	23,500±17%	2,900±16%	2,400±15%
Total Duck Hunter Days Afield^b	5,000±16%	6,000±28%	130,300±20%	156,700±23%	20,500±18%	18,500±22%
Seasonal Duck Harvest Per Hunter	8.6±28%	9.8±35%	8.8±25%	10.6±30%	11.9±25%	10.7±35%
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Goose Species Composition						
Canada Goose	4,066	2,800	23,774	32,700	12,261	11,525
Snow Goose	34	0	626	0	2,057	87
Blue Goose	0	0	0	0	41	0
Ross's Goose	0	0	0	0	41	0
White-fronted Goose	0	0	0	0	0	0
Brant	1,400	600	0	0	0	87
Other Geese	0	0	0	0	0	0
Total Goose Harvest	5,500±29%	3,400±29%	24,400±40%	32,700±54%	14,400±25%	11,700±30%
Total Active Goose Hunters^b	600±15%	600±24%	7,900±25%	7,700±29%	2,600±17%	2,100±20%
Total Goose Hunter Days Afield^b	4,200±21%	3,900±25%	29,800±38%	47,300±63%	13,700±22%	14,000±31%
Seasonal Goose Harvest Per Hunter	9.3±33%	5.6±38%	3.1±48%	4.2±61%	5.6±30%	5.7±36%
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Active Waterfowl Hunters	900±11%	900±17%	22,500±16%	22,900±18%	3,600±15%	3,000±15%
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Sample Sizes						
Duck Wings	345	329	1,274	1,077	626	489
Goose Tails	314	370	78	94	352	134

Table 1A. Preliminary estimates of waterfowl harvest and hunter activity in the Atlantic Flyway during the 2008 and 2009 hunting seasons.

Duck Species Composition	Virginia		West Virginia		Flyway Total	
	2008	2009	2008	2009	2008	2009
Mallard	58,586	39,204	4,453	3,816	503,480	419,543
Domestic Mallard	188	264	164	78	5,941	9,254
Black Duck	11,079	8,105	295	392	90,196	81,287
Mallard x Black Duck Hybrid	1,502	529	65	26	8,388	6,763
Mottled Duck	0	0	0	0	14,990	19,135
Gadwall	6,009	5,638	65	183	36,313	33,448
Wigeon	2,817	1,498	0	26	29,563	33,514
Green-winged Teal	10,140	7,665	98	26	148,908	135,634
Blue-winged/Cinnamon Teal	751	1,233	65	26	72,509	114,479
Northern Shoveler	376	881	0	26	11,415	19,202
Northern Pintail	3,474	1,586	33	0	21,395	15,056
Wood Duck	19,998	15,329	1,899	1,934	365,477	357,501
Redhead	0	352	0	0	7,359	12,129
Canvasback	0	1,674	0	0	68	7,389
Greater Scaup	94	2,731	33	0	10,646	12,794
Lesser Scaup	1,690	4,229	0	52	25,791	35,908
Ring-necked Duck	12,487	9,779	33	0	131,811	116,445
Goldeneyes	188	352	0	0	15,886	12,918
Bufflehead	8,638	19,646	65	0	84,702	84,532
Ruddy Duck	845	881	33	0	11,860	9,275
Long-tailed Duck	1,333	1,943	0	0	28,686	15,260
Eiders	0	0	0	0	15,857	16,138
Scoters	10,667	4,857	0	26	40,132	36,699
Hooded Merganser	4,882	5,462	98	105	38,212	42,103
Other Mergansers	657	1,674	0	157	21,887	22,311
Other Ducks	0	88	0	26	2,774	11,383
Total Duck Harvest	156,400±19%	135,600±19%	7,400±39%	6,900±36%	1,744,200±8%	1,680,100±7%
Total Active Duck Hunters^a	15,500±15%	17,600±13%	1,100±21%	1,200±24%	173,000^c	193,200^c
Total Duck Hunter Days Afield^d	88,100±17%	91,200±16%	6,400±37%	7,700±32%	1,001,300±6%	1,104,100±6%
Seasonal Duck Harvest Per Hunter	10.1±24%	7.7±23%	6.8±44%	5.9±43%		
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Goose Species Composition						
Canada Goose	72,232	63,700	4,700	7,000	919,976	854,268
Snow Goose	2,184	100	0	0	57,765	29,314
Blue Goose	84	0	0	0	987	112
Ross's Goose	0	0	0	0	170	145
White-fronted Goose	0	0	0	0	0	2,510
Brant	5,500	3,300	0	0	27,150	35,123
Other Geese	0	0	0	0	0	728
Total Goose Harvest	80,000±18%	67,100±22%	4,700±47%	7,000±39%	1,006,000±8%	922,200±8%
Total Active Goose Hunters^b	15,200±14%	15,600±13%	900±23%	1,100±27%	151,900^c	145,200^c
Total Goose Hunter Days Afield^b	78,800±20%	68,600±18%	5,400±35%	6,700±39%	797,200±6%	804,500±8%
Seasonal Goose Harvest Per Hunter	4.9±23%	4.1±26%	5.0±53%	6.6±47%		
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Active Waterfowl Hunters	20,700±13%	22,100±12%	1,100±20%	1,300±23%	226,500^c	241,700^c
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Sample Sizes						
Duck Wings	1,547	1,490	226	264	16,943	15,312
Goose Tails	911	683	147	96	8,510	7,360

Table 1B. Preliminary estimates of waterfowl harvest and hunter activity in the Mississippi Flyway during the 2008 and 2009 hunting seasons.

Duck Species Composition	Alabama		Arkansas		Illinois	
	2008	2009	2008	2009	2008	2009
Mallard	19,860	64,833	641,431	605,672	231,129	239,205
Domestic Mallard	245	0	0	0	250	475
Black Duck	245	549	805	0	3,494	2,851
Mallard x Black Duck Hybrid	0	0	805	415	499	0
Mottled Duck	0	0	0	0	0	0
Gadwall	27,706	30,768	220,253	168,012	39,187	29,455
Wigeon	1,716	3,297	34,226	14,934	8,736	6,414
Green-winged Teal	6,375	9,340	140,527	115,741	26,957	29,455
Blue-winged/Cinnamon Teal	6,130	14,285	18,522	28,624	8,486	25,417
Northern Shoveler	3,923	4,945	64,828	70,109	12,480	13,065
Northern Pintail	981	3,297	29,394	18,668	7,987	4,513
Wood Duck	48,546	81,865	55,969	51,441	30,701	31,831
Redhead	736	0	5,637	2,489	2,746	2,138
Canvasback	0	3,846	403	2,489	0	2,613
Greater Scaup	0	1,648	1,611	830	1,248	1,188
Lesser Scaup	2,697	1,648	12,885	2,904	6,240	9,027
Ring-necked Duck	15,201	6,593	24,562	12,030	10,733	16,153
Goldeneyes	0	549	805	0	3,245	2,851
Bufflehead	1,716	8,791	805	0	6,240	5,226
Ruddy Duck	0	0	3,221	1,245	749	238
Long-tailed Duck	0	0	0	0	0	0
Eiders	0	0	0	0	0	0
Scoters	0	0	0	0	0	0
Hooded Merganser	3,678	4,395	1,611	8,297	2,746	2,613
Other Mergansers	0	549	0	0	749	475
Other Ducks	245	0	0	0	0	0
Total Duck Harvest	140,000±20%	241,200±32%	1,258,300±11%	1,103,900±18%	404,600±16%	425,200±18%
Total Active Duck Hunters	13,500±20%	16,100±20%	58,700±9%	55,000±9%	33,400±10%	35,100±10%
Total Duck Hunter Days Afield	82,900±21%	136,900±31%	520,100±12%	435,600±12%	288,500±12%	317,200±14%
Seasonal Duck Harvest Per Hunter	10.4±28%	15.0±38%	21.4±14%	20.1±20%	12.1±19%	12.1±21%
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Goose Species Composition						
Canada Goose	9,379	22,900	11,497	26,189	150,135	156,863
Snow Goose	0	0	41,848	30,743	4,531	5,147
Blue Goose	361	0	25,752	18,218	2,115	3,251
Ross's Goose	0	0	5,518	1,139	604	271
White-fronted Goose	361	0	52,885	23,911	2,115	2,167
Brant	0	0	0	0	0	0
Other Geese	0	0	0	0	0	0
Total Goose Harvest	10,100±35%	22,900±41%	137,500±29%	100,200±32%	159,500±20%	167,700±16%
Total Active Goose Hunters	5,600±32%	8,100±32%	21,600±15%	14,900±18%	25,600±11%	29,100±11%
Total Goose Hunter Days Afield	18,700±58%	42,100±45%	90,900±22%	70,000±24%	221,100±15%	223,400±14%
Seasonal Goose Harvest Per Hunter	1.8±48%	2.8±51%	6.4±33%	6.7±37%	6.2±23%	5.8±20%
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Active Waterfowl Hunters	13,800±20%	16,900±20%	59,000±9%	54,900±9%	40,100±9%	43,500±9%
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Sample Sizes						
Duck Wings	571	439	3,125	2,661	1,621	1,790
Goose Tails	28	26	300	88	528	619

Table 1B. Preliminary estimates of waterfowl harvest and hunter activity in the Mississippi Flyway during the 2008 and 2009 hunting seasons.

Duck Species Composition	Indiana		Iowa		Kentucky	
	2008	2009	2008	2009	2008	2009
Mallard	72,365	34,993	72,312	45,288	79,821	79,761
Domestic Mallard	982	171	0	0	0	0
Black Duck	2,128	1,707	625	523	1,900	3,552
Mallard x Black Duck Hybrid	819	512	0	174	0	969
Mottled Duck	0	0	0	0	0	0
Gadwall	6,876	6,486	14,796	12,715	26,607	17,761
Wigeon	2,783	1,536	6,460	3,309	3,801	646
Green-winged Teal	5,239	6,999	31,259	22,470	19,005	6,781
Blue-winged/Cinnamon Teal	3,929	6,657	15,004	35,534	950	646
Northern Shoveler	2,620	1,536	13,962	5,574	4,751	3,229
Northern Pintail	2,456	853	5,418	2,787	3,801	646
Wood Duck	16,536	15,363	38,344	45,114	34,209	22,282
Redhead	0	0	625	697	0	0
Canvasback	0	0	0	174	0	646
Greater Scaup	655	171	0	0	950	323
Lesser Scaup	164	853	1,876	174	2,851	1,615
Ring-necked Duck	2,947	3,414	3,543	6,271	0	2,583
Goldeneyes	164	853	625	174	0	0
Bufflehead	819	512	625	174	9,502	969
Ruddy Duck	0	341	0	174	2,851	0
Long-tailed Duck	0	0	0	0	0	0
Eiders	0	0	0	0	0	0
Scoters	164	0	0	0	0	0
Hooded Merganser	491	171	625	174	0	1,292
Other Mergansers	164	171	0	0	0	0
Other Ducks	0	0	0	0	0	0
Total Duck Harvest	122,300±20%	83,300±16%	206,100±15%	181,500±16%	191,000±24%	143,700±56%
Total Active Duck Hunters	12,400±12%	12,700±13%	18,800±9%	17,600±9%	14,900±19%	11,000±30%
Total Duck Hunter Days Afield	95,000±15%	85,000±16%	135,800±12%	130,300±13%	106,100±17%	101,100±51%
Seasonal Duck Harvest Per Hunter	9.9±23%	6.5±20%	10.9±17%	10.3±18%	12.8±31%	13.0±63%
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Goose Species Composition						
Canada Goose	67,700	64,600	62,167	62,043	40,263	32,786
Snow Goose	0	0	278	0	4,737	0
Blue Goose	0	0	555	0	0	405
Ross's Goose	0	0	0	0	0	0
White-fronted Goose	0	0	0	257	0	810
Brant	0	0	0	0	0	0
Other Geese	0	0	0	0	0	0
Total Goose Harvest	67,700±20%	64,600±15%	63,000±20%	62,300±23%	45,000±25%	34,000±46%
Total Active Goose Hunters	13,000±11%	13,000±11%	14,100±10%	13,500±11%	11,300±21%	10,600±30%
Total Goose Hunter Days Afield	86,700±15%	83,900±15%	91,300±15%	87,700±16%	80,400±26%	90,500±52%
Seasonal Goose Harvest Per Hunter	5.2±22%	5.0±19%	4.5±23%	4.6±25%	4.0±33%	3.2±55%
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Active Waterfowl Hunters	15,700±10%	14,500±12%	21,700±7%	19,500±8%	16,100±19%	11,700±29%
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Sample Sizes						
Duck Wings	747	488	989	1,042	201	445
Goose Tails	316	293	227	242	19	84

Table 1B. Preliminary estimates of waterfowl harvest and hunter activity in the Mississippi Flyway during the 2008 and 2009 hunting seasons.

Duck Species Composition	Louisiana		Michigan		Minnesota	
	2008	2009	2008	2009	2008	2009
Mallard	131,912	143,961	158,033	129,651	188,974	101,280
Domestic Mallard	367	491	367	206	0	0
Black Duck	1,102	1,474	8,983	6,997	1,120	0
Mallard x Black Duck Hybrid	735	0	917	1,029	560	641
Mottled Duck	66,875	51,590	0	0	0	0
Gadwall	338,415	279,078	4,583	4,733	19,877	23,931
Wigeon	49,972	30,463	2,750	4,322	13,718	10,470
Green-winged Teal	389,490	364,570	23,100	22,432	61,592	49,999
Blue-winged/Cinnamon Teal	352,378	532,606	367	1,852	60,752	34,828
Northern Shoveler	91,493	99,249	733	1,441	10,079	16,666
Northern Pintail	55,851	43,729	5,683	4,528	7,279	3,632
Wood Duck	152,856	157,227	37,217	38,072	78,949	53,204
Redhead	4,777	10,809	12,283	19,345	10,079	8,974
Canvasback	367	8,353	0	823	280	3,846
Greater Scaup	3,674	2,948	7,333	5,556	840	1,496
Lesser Scaup	34,540	52,081	8,983	9,261	10,639	10,043
Ring-necked Duck	53,279	39,307	5,683	11,936	80,629	45,726
Goldeneyes	0	1,474	5,133	5,556	11,198	7,051
Bufflehead	6,247	3,439	36,667	30,046	17,358	12,607
Ruddy Duck	735	0	917	4,733	280	214
Long-tailed Duck	0	0	550	823	0	0
Eiders	0	0	0	0	0	0
Scoters	0	0	733	2,264	0	0
Hooded Merganser	6,981	5,405	4,033	2,058	8,679	7,478
Other Mergansers	367	1,965	1,650	1,235	1,120	214
Other Ducks	8,084	18,179	0	0	0	0
Total Duck Harvest	1,750,500±15%	1,848,400±12%	326,700±15%	308,900±13%	584,000±14%	392,300±14%
Total Active Duck Hunters	68,800±9%	80,100±6%	38,500±10%	41,100±10%	71,700±9%	61,100±10%
Total Duck Hunter Days Afield	608,300±13%	691,400±10%	237,600±12%	251,100±12%	409,900±11%	335,800±14%
Seasonal Duck Harvest Per Hunter	25.4±17%	23.1±13%	8.5±18%	7.5±16%	8.1±17%	6.4±17%
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Goose Species Composition						
Canada Goose	0	0	172,747	162,300	220,972	147,700
Snow Goose	39,286	25,247	238	0	1,543	0
Blue Goose	28,571	11,318	0	0	0	0
Ross's Goose	4,286	4,353	715	0	0	0
White-fronted Goose	77,857	33,082	0	0	386	0
Brant	0	0	0	0	0	0
Other Geese	0	0	0	0	0	0
Total Goose Harvest	150,000±30%	74,000±33%	173,700±22%	162,300±15%	222,900±19%	147,700±19%
Total Active Goose Hunters	20,300±15%	11,700±19%	37,500±10%	35,400±10%	50,500±10%	49,100±11%
Total Goose Hunter Days Afield	94,500±21%	78,700±27%	217,200±15%	214,700±14%	275,800±13%	252,000±16%
Seasonal Goose Harvest Per Hunter	7.4±34%	6.3±38%	4.6±24%	4.6±18%	4.4±21%	3.0±22%
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Active Waterfowl Hunters	69,600±9%	80,600±6%	46,900±9%	47,800±9%	83,400±8%	71,500±10%
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Sample Sizes						
Duck Wings	4,764	3,762	1,782	1,501	2,086	1,836
Goose Tails	210	85	729	595	578	520

Table 1B. Preliminary estimates of waterfowl harvest and hunter activity in the Mississippi Flyway during the 2008 and 2009 hunting seasons.

Duck Species Composition	Mississippi		Missouri		Ohio	
	2008	2009	2008	2009	2008	2009
Mallard	103,995	113,291	249,656	221,325	60,201	62,121
Domestic Mallard	0	0	552	0	306	479
Black Duck	0	809	0	176	5,501	4,312
Mallard x Black Duck Hybrid	0	0	368	0	306	479
Mottled Duck	910	270	0	0	0	0
Gadwall	62,807	45,856	74,554	43,949	2,597	1,437
Wigeon	10,695	4,316	11,781	6,680	917	479
Green-winged Teal	46,877	39,382	55,962	41,839	4,889	6,388
Blue-winged/Cinnamon Teal	6,144	8,092	26,508	17,228	764	4,950
Northern Shoveler	22,528	31,560	13,990	24,435	1,070	160
Northern Pintail	9,558	7,553	16,015	10,548	1,986	479
Wood Duck	37,320	27,244	14,359	8,790	15,585	18,365
Redhead	0	2,158	184	2,285	917	798
Canvasback	0	1,079	184	527	0	0
Greater Scaup	683	0	184	703	306	319
Lesser Scaup	3,641	5,934	1,289	2,285	917	2,395
Ring-necked Duck	16,384	10,250	8,468	10,899	306	319
Goldeneyes	0	0	1,473	3,867	458	639
Bufflehead	683	0	368	176	3,361	7,186
Ruddy Duck	0	1,618	0	0	611	479
Long-tailed Duck	0	0	0	0	0	0
Eiders	0	0	0	0	0	0
Scoters	0	0	0	176	153	319
Hooded Merganser	2,276	1,888	1,473	2,813	1,528	479
Other Mergansers	0	0	368	0	1,222	1,916
Other Ducks	0	0	0	0	0	0
Total Duck Harvest	324,500±18%	301,300±20%	477,700±35%	398,700±25%	103,900±22%	114,500±22%
Total Active Duck Hunters	13,400±14%	13,600±15%	29,000±12%	35,200±13%	17,500±21%	17,700±20%
Total Duck Hunter Days Afield	109,500±17%	117,700±16%	228,100±20%	234,600±21%	97,800±18%	133,400±38%
Seasonal Duck Harvest Per Hunter	24.2±22%	22.2±26%	16.5±37%	11.3±28%	6.0±31%	6.5±30%
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Goose Species Composition						
Canada Goose	4,770	10,913	81,880	66,936	72,066	82,600
Snow Goose	3,498	0	7,369	8,637	356	0
Blue Goose	3,498	0	2,866	5,668	0	0
Ross's Goose	636	0	2,866	1,080	0	0
White-fronted Goose	3,498	8,987	819	1,080	178	0
Brant	0	0	0	0	0	0
Other Geese	0	0	0	0	0	0
Total Goose Harvest	15,900±62%	19,900±52%	95,800±41%	83,400±56%	72,600±22%	82,600±18%
Total Active Goose Hunters	3,300±31%	4,900±27%	14,600±15%	15,500±18%	19,800±19%	20,900±19%
Total Goose Hunter Days Afield	15,400±42%	16,500±37%	86,300±20%	89,500±24%	114,500±20%	138,900±21%
Seasonal Goose Harvest Per Hunter	4.8±69%	4.0±58%	6.6±44%	5.4±59%	3.7±29%	4.0±26%
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Active Waterfowl Hunters	13,400±14%	13,500±15%	32,100±11%	36,600±12%	19,800±20%	21,000±19%
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Sample Sizes						
Duck Wings	1,426	1,117	2,596	2,268	680	717
Goose Tails	50	31	234	309	409	537

Table 1B. Preliminary estimates of waterfowl harvest and hunter activity in the Mississippi Flyway during the 2008 and 2009 hunting seasons.

Duck Species Composition	Tennessee		Wisconsin		Flyway Total	
	2008	2009	2008	2009	2008	2009
Mallard	116,798	128,946	155,642	105,908	2,282,128	2,076,235
Domestic Mallard	242	0	0	168	3,311	1,990
Black Duck	2,666	5,407	1,071	2,017	29,641	30,373
Mallard x Black Duck Hybrid	485	541	357	1,345	5,850	6,104
Mottled Duck	0	0	0	0	67,785	51,860
Gadwall	55,733	35,143	12,316	13,953	906,308	713,277
Wigeon	6,058	5,136	6,604	4,707	160,218	96,709
Green-winged Teal	9,450	12,435	32,128	27,402	852,849	755,233
Blue-winged/Cinnamon Teal	1,939	4,055	16,064	17,819	517,937	732,594
Northern Shoveler	8,239	8,380	1,785	2,690	252,481	283,039
Northern Pintail	8,239	2,974	3,570	2,522	158,218	106,727
Wood Duck	21,082	24,329	81,034	72,286	662,706	647,412
Redhead	485	2,433	4,641	7,733	43,108	59,860
Canvasback	0	1,081	0	2,354	1,234	27,831
Greater Scaup	1,454	811	5,712	8,574	24,649	24,567
Lesser Scaup	1,696	4,055	8,924	9,246	97,340	111,522
Ring-necked Duck	12,843	10,002	16,778	10,759	251,356	186,243
Goldeneyes	727	1,622	5,712	5,379	29,540	30,017
Bufflehead	485	5,407	16,242	16,643	101,118	91,175
Ruddy Duck	0	1,352	1,606	1,849	10,970	12,243
Long-tailed Duck	0	0	7,140	4,707	7,690	5,530
Eiders	0	0	0	0	0	0
Scoters	0	0	535	841	1,585	3,599
Hooded Merganser	1,939	1,892	2,142	2,690	38,201	41,645
Other Mergansers	0	0	2,499	1,009	8,139	7,534
Other Ducks	242	0	0	0	8,571	18,179
Total Duck Harvest	250,800±26%	256,000±27%	382,500±11%	322,600±11%	6,522,900±6%	6,121,500±6%
Total Active Duck Hunters	17,200±20%	20,600±21%	58,500±10%	51,500±11%	466,400^c	468,400^c
Total Duck Hunter Days Afield	130,200±21%	154,600±28%	360,200±12%	330,800±11%	3,410,000±4%	3,455,500±5%
Seasonal Duck Harvest Per Hunter	14.6±33%	12.4±34%	6.5±15%	6.3±15%		
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Goose Species Composition						
Canada Goose	17,955	42,766	110,164	97,300	1,021,696	975,895
Snow Goose	473	0	135	0	104,291	69,775
Blue Goose	473	578	0	0	64,191	39,438
Ross's Goose	0	0	0	0	14,625	6,842
White-fronted Goose	0	1,156	0	0	138,097	71,451
Brant	0	0	0	0	0	0
Other Geese	0	0	0	0	0	0
Total Goose Harvest	18,900±29%	44,500±74%	110,300±13%	97,300±20%	1,342,900±8%	1,163,400±8%
Total Active Goose Hunters	8,200±26%	11,600±25%	43,600±11%	43,400±11%	289,000^c	281,700^c
Total Goose Hunter Days Afield	51,600±37%	107,000±39%	289,400±17%	279,200±17%	1,733,800±5%	1,773,900±6%
Seasonal Goose Harvest Per Hunter	2.3±39%	3.8±78%	2.5±17%	2.2±23%		
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Active Waterfowl Hunters	18,000±19%	21,000±21%	80,600±8%	68,800±9%	530,300^c	521,900^c
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Sample Sizes						
Duck Wings	1,035	947	2,143	1,919	23,766	20,932
Goose Tails	40	77	815	452	4,483	3,958

Table 1C. Preliminary estimates of waterfowl harvest and hunter activity in the Central Flyway during the 2008 and 2009 hunting seasons.

Duck Species Composition	Colorado		Kansas		Nebraska	
	2008	2009	2008	2009	2008	2009
Mallard	56,977	72,094	98,640	80,574	90,391	84,027
Domestic Mallard	0	0	0	0	151	172
Black Duck	0	0	0	0	0	0
Mallard x Black Duck Hybrid	0	0	0	0	151	0
Mottled Duck	0	0	0	0	0	0
Gadwall	11,094	12,132	34,080	27,589	14,915	13,059
Wigeon	9,725	8,088	17,760	11,511	11,450	8,935
Green-winged Teal	11,094	6,972	29,760	25,944	43,388	18,043
Blue-winged/Cinnamon Teal	9,177	3,904	18,960	18,819	29,076	16,496
Northern Shoveler	3,561	2,371	2,400	7,674	4,068	4,124
Northern Pintail	1,781	3,207	6,872	5,664	4,218	3,093
Wood Duck	3,013	2,789	3,600	3,106	5,122	3,093
Redhead	2,191	1,394	6,784	2,923	1,205	2,578
Canvasback	822	279	480	731	452	0
Greater Scaup	0	139	240	183	0	0
Lesser Scaup	0	279	1,200	731	301	344
Ring-necked Duck	685	2,510	7,680	6,212	1,055	1,031
Goldeneyes	685	2,092	480	1,096	904	172
Bufflehead	1,096	1,534	240	548	301	687
Ruddy Duck	0	418	0	0	151	0
Long-tailed Duck	0	0	0	0	151	0
Eiders	0	0	0	0	0	0
Scoters	0	0	0	0	0	172
Hooded Merganser	0	279	1,440	914	452	1,375
Other Mergansers	0	279	0	183	0	0
Other Ducks	0	139	240	0	0	0
Total Duck Harvest	111,900±14%	120,900±17%	230,900±22%	194,400±21%	207,900±48%	157,400±17%
Total Active Duck Hunters	13,700±14%	13,300±16%	16,500±15%	14,300±17%	14,500±21%	12,900±15%
Total Duck Hunter Days Afield	72,900±13%	79,400±20%	106,200±18%	92,100±19%	104,000±29%	94,100±13%
Seasonal Duck Harvest Per Hunter	8.1±20%	9.1±24%	13.9±27%	13.6±27%	14.3±52%	12.2±22%

<u>Goose Species Composition</u>						
Canada Goose	89,188	85,123	87,067	92,267	85,274	79,026
Snow Goose	4,774	5,262	11,120	7,467	3,833	1,303
Blue Goose	217	310	2,129	1,067	2,156	1,737
Ross's Goose	1,953	3,405	4,259	2,133	958	0
White-fronted Goose	868	0	16,325	12,267	479	434
Brant	0	0	0	0	0	0
Other Geese	0	0	0	0	0	0
Total Goose Harvest	97,000±14%	94,100±23%	120,900±23%	115,200±26%	92,700±33%	82,500±23%
Total Active Goose Hunters	16,000±13%	15,200±15%	14,700±15%	12,200±17%	14,500±18%	11,800±14%
Total Goose Hunter Days Afield	105,500±21%	84,800±18%	83,500±18%	79,000±26%	115,000±22%	95,600±16%
Seasonal Goose Harvest Per Hunter	6.1±19%	6.2±27%	8.2±28%	9.4±31%	6.4±38%	7.0±27%

Active Waterfowl Hunters	20,000±12%	19,700±13%	19,800±14%	17,100±15%	18,400±18%	16,600±13%

<u>Sample Sizes</u>						
Duck Wings	817	867	963	1,064	1,380	916
Goose Tails	447	304	512	432	387	190

Table 1C. Preliminary estimates of waterfowl harvest and hunter activity in the Central Flyway during the 2008 and 2009 hunting seasons.

Duck Species Composition	New Mexico		North Dakota		Oklahoma	
	2008	2009	2008	2009	2008	2009
Mallard	14,389	15,200	139,219	169,224	97,524	104,072
Domestic Mallard	0	0	0	0	0	108
Black Duck	0	0	116	0	0	0
Mallard x Black Duck Hybrid	0	0	0	0	0	0
Mottled Duck	0	0	0	0	0	0
Gadwall	4,090	5,263	46,058	93,530	54,380	68,047
Wigeon	4,309	4,437	13,690	21,181	17,385	19,257
Green-winged Teal	4,236	2,785	16,938	20,623	28,939	26,613
Blue-winged/Cinnamon Teal	876	897	12,414	21,404	12,190	8,763
Northern Shoveler	1,461	661	12,066	39,909	7,632	7,573
Northern Pintail	1,096	1,062	7,657	18,840	4,982	6,599
Wood Duck	548	378	1,276	2,341	5,936	4,868
Redhead	365	448	9,629	32,663	2,438	3,029
Canvasback	37	71	4,641	8,361	1,908	1,947
Greater Scaup	0	24	348	223	106	0
Lesser Scaup	110	401	10,209	26,197	848	433
Ring-necked Duck	876	590	6,497	5,685	12,084	8,979
Goldeneyes	110	425	0	780	742	1,082
Bufflehead	183	189	6,613	8,138	954	216
Ruddy Duck	37	0	348	3,233	106	108
Long-tailed Duck	0	0	0	0	0	0
Eiders	0	0	0	0	0	0
Scoters	0	0	0	111	0	0
Hooded Merganser	0	71	580	557	2,438	1,406
Other Mergansers	37	330	0	0	106	0
Other Ducks	1,205	566	0	0	0	0
Total Duck Harvest	34,000±55%	33,800±45%	288,300±8%	473,000±19%	250,700±19%	263,100±23%
Total Active Duck Hunters	2,600±22%	1,800±25%	26,200±7%	30,600±7%	14,200±12%	11,700±13%
Total Duck Hunter Days Afield	14,800±32%	17,000±42%	119,800±8%	165,900±15%	98,100±15%	87,400±17%
Seasonal Duck Harvest Per Hunter	13.3±60%	18.9±52%	11.0±11%	15.5±21%	17.7±23%	22.5±27%
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Goose Species Composition						
Canada Goose	4,329	4,853	99,091	101,599	35,027	28,084
Snow Goose	124	677	14,829	15,296	2,416	1,590
Blue Goose	0	0	16,492	15,779	0	177
Ross's Goose	247	113	1,524	2,093	966	530
White-fronted Goose	0	56	1,524	1,932	1,691	2,120
Brant	0	0	0	0	0	0
Other Geese	0	0	139	0	0	0
Total Goose Harvest	4,700±49%	5,700±56%	133,600±15%	136,700±37%	40,100±27%	32,500±22%
Total Active Goose Hunters	1,500±30%	1,000±35%	21,300±7%	20,700±8%	7,300±16%	7,600±16%
Total Goose Hunter Days Afield	5,600±39%	4,700±47%	94,500±10%	98,200±15%	41,600±25%	33,200±19%
Seasonal Goose Harvest Per Hunter	3.2±58%	6.0±66%	6.3±17%	6.6±38%	5.5±31%	4.3±27%
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Active Waterfowl Hunters	3,300±20%	2,300±24%	29,800±6%	33,400±7%	14,900±11%	12,100±13%
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Sample Sizes						
Duck Wings	930	1,432	2,485	4,243	2,365	2,432
Goose Tails	76	101	964	849	166	184

Table 1C. Preliminary estimates of waterfowl harvest and hunter activity in the Central Flyway during the 2008 and 2009 hunting seasons.

Duck Species Composition	South Dakota		Texas		Wyoming	
	2008	2009	2008	2009	2008	2009
Mallard	76,643	108,581	70,234	74,524	22,255	25,784
Domestic Mallard	0	0	0	0	0	0
Black Duck	0	0	196	220	0	0
Mallard x Black Duck Hybrid	0	0	0	0	0	0
Mottled Duck	0	0	12,163	10,992	0	0
Gadwall	24,876	31,363	147,137	207,963	2,229	2,738
Wigeon	9,971	10,530	68,468	98,046	2,804	4,679
Green-winged Teal	12,992	12,568	170,875	145,310	2,157	3,584
Blue-winged/Cinnamon Teal	12,992	17,323	103,781	208,842	1,330	747
Northern Shoveler	4,834	11,888	28,839	62,213	216	299
Northern Pintail	3,626	8,492	41,198	42,868	467	896
Wood Duck	4,230	2,831	30,997	27,919	180	299
Redhead	4,230	7,020	24,523	29,018	72	299
Canvasback	1,309	679	6,082	4,617	72	348
Greater Scaup	0	0	1,962	1,099	0	0
Lesser Scaup	4,834	4,189	11,182	11,212	36	299
Ring-necked Duck	4,532	3,397	33,351	41,329	108	548
Goldeneyes	101	226	1,373	0	1,258	3,634
Bufflehead	2,316	5,321	2,550	3,737	144	249
Ruddy Duck	1,611	453	196	2,638	36	0
Long-tailed Duck	0	0	0	0	0	0
Eiders	0	0	0	0	0	0
Scoters	0	113	0	220	0	0
Hooded Merganser	302	226	3,531	2,198	0	0
Other Mergansers	0	0	392	879	36	100
Other Ducks	101	0	1,569	3,957	0	0
Total Duck Harvest	169,500±16%	225,200±16%	760,600±18%	979,800±20%	33,400±27%	44,500±39%
Total Active Duck Hunters	14,200±13%	16,600±12%	72,700±20%	67,400±20%	3,600±19%	4,100±20%
Total Duck Hunter Days Afield	80,000±16%	84,700±14%	331,600±19%	410,200±28%	18,800±22%	22,300±26%
Seasonal Duck Harvest Per Hunter	11.9±20%	13.5±20%	10.5±27%	14.5±28%	9.2±33%	10.7±44%
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Goose Species Composition						
Canada Goose	94,513	98,716	43,950	54,583	27,500	21,134
Snow Goose	15,806	9,892	123,146	67,839	0	66
Blue Goose	9,614	7,831	33,941	12,476	0	0
Ross's Goose	1,141	824	31,330	9,357	0	0
White-fronted Goose	326	1,237	40,033	52,244	0	0
Brant	0	0	0	0	0	0
Other Geese	0	0	0	0	0	0
Total Goose Harvest	121,400±20%	118,500±27%	272,400±29%	196,500±35%	27,500±29%	21,200±46%
Total Active Goose Hunters	15,800±11%	14,600±12%	49,400±20%	36,700±23%	3,700±17%	3,600±19%
Total Goose Hunter Days Afield	86,600±15%	82,800±16%	170,700±38%	108,900±26%	20,300±26%	17,000±23%
Seasonal Goose Harvest Per Hunter	7.7±23%	8.1±30%	5.5±36%	5.4±42%	7.5±33%	5.8±50%
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Active Waterfowl Hunters	21,800±10%	22,400±10%	87,700±19%	86,900±19%	5,200±14%	5,800±15%
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Sample Sizes						
Duck Wings	1,683	1,989	3,877	4,457	929	894
Goose Tails	745	575	626	252	426	322

Table 1C. Preliminary estimates of waterfowl harvest and hunter activity in the Central Flyway during the 2008 and 2009 hunting seasons.

Duck Species Composition	Flyway Total	
	2008	2009
Mallard	666,271	734,079
Domestic Mallard	151	280
Black Duck	312	220
Mallard x Black Duck Hybrid	151	0
Mottled Duck	12,163	10,992
Gadwall	338,860	461,684
Wigeon	155,561	186,663
Green-winged Teal	320,380	262,443
Blue-winged/Cinnamon Teal	200,796	297,195
Northern Shoveler	65,076	136,711
Northern Pintail	71,897	90,721
Wood Duck	54,902	47,623
Redhead	51,438	79,372
Canvasback	15,802	17,033
Greater Scaup	2,656	1,668
Lesser Scaup	28,721	44,084
Ring-necked Duck	66,868	70,281
Goldeneyes	5,653	9,507
Bufflehead	14,397	20,620
Ruddy Duck	2,485	6,850
Long-tailed Duck	151	0
Eiders	0	0
Scoters	0	616
Hooded Merganser	8,744	7,026
Other Mergansers	571	1,771
Other Ducks	3,115	4,663
Total Duck Harvest	2,087,100±9%	2,492,100±9%
Total Active Duck Hunters	178,300^c	172,700^c
Total Duck Hunter Days Afield	946,100±8%	1,053,000±12%
Seasonal Duck Harvest Per Hunter		

Goose Species Composition		
Canada Goose	565,939	565,387
Snow Goose	176,047	109,392
Blue Goose	64,550	39,376
Ross's Goose	42,379	18,456
White-fronted Goose	61,247	70,290
Brant	0	0
Other Geese	139	0
Total Goose Harvest	910,300±11%	802,900±13%
Total Active Goose Hunters	144,200^c	123,400^c
Total Goose Hunter Days Afield	723,300±10%	604,200±8%
Seasonal Goose Harvest Per Hunter		

Active Waterfowl Hunters	220,900^c	216,300^c

Sample Sizes		
Duck Wings	15,429	18,294
Goose Tails	4,349	3,209

Table 1D. Preliminary estimates of waterfowl harvest and hunter activity in the Pacific Flyway during the 2008 and 2009 hunting seasons.

Duck Species Composition	Arizona		California		Idaho	
	2008	2009	2008	2009	2008	2009
Mallard	6,396	9,288	255,956	262,442	179,397	146,716
Domestic Mallard	0	0	803	525	245	265
Black Duck	0	0	0	0	0	0
Mallard x Black Duck Hybrid	0	0	0	0	0	0
Mottled Duck	0	0	0	0	0	0
Gadwall	2,532	2,781	110,212	117,846	8,333	14,592
Wigeon	3,669	3,253	272,418	195,302	23,773	21,357
Green-winged Teal	4,480	5,300	468,551	387,457	13,112	13,266
Blue-winged/Cinnamon Teal	1,980	1,364	39,949	35,319	1,716	1,725
Northern Shoveler	2,175	2,624	209,583	157,710	1,838	1,990
Northern Pintail	1,299	577	169,433	177,118	4,656	5,174
Wood Duck	227	157	36,336	27,101	3,921	4,112
Redhead	877	525	7,026	6,644	2,451	929
Canvasback	0	315	602	9,791	0	0
Greater Scaup	97	157	1,606	4,196	368	1,061
Lesser Scaup	227	1,732	14,454	13,113	858	265
Ring-necked Duck	1,597	2,676	25,295	17,659	1,593	1,725
Goldeneyes	1,071	1,942	3,413	9,092	11,029	10,480
Bufflehead	909	2,519	12,246	12,589	2,451	2,653
Ruddy Duck	357	1,050	3,814	4,196	123	133
Long-tailed Duck	0	0	0	100	0	133
Eiders	0	0	0	0	0	0
Scoters	0	0	1,400	900	0	0
Hooded Merganser	195	157	1,004	874	858	1,194
Other Mergansers	32	210	0	874	858	531
Other Ducks	779	472	0	350	123	0
Total Duck Harvest	28,900±25%	37,100±19%	1,634,100±19%	1,441,200±20%	257,700±22%	228,300±22%
Total Active Duck Hunters	3,300±17%	3,300±13%	58,100±10%	51,300±11%	20,000±12%	15,400±14%
Total Duck Hunter Days Afield	16,700±33%	18,800±14%	591,300±16%	511,300±16%	121,400±27%	113,800±27%
Seasonal Duck Harvest Per Hunter	8.6±30%	11.2±23%	28.1±22%	28.1±23%	12.9±25%	14.8±26%
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Goose Species Composition						
Canada Goose	2,900	4,485	49,252	53,865	64,107	57,053
Snow Goose	100	408	70,946	30,490	0	1,247
Blue Goose	200	0	0	203	0	0
Ross's Goose	0	408	13,779	8,740	131	0
White-fronted Goose	0	0	110,523	56,101	262	0
Brant	0	0	1,000	900	0	0
Other Geese	0	0	0	0	0	0
Total Goose Harvest	3,200±42%	5,300±13%	245,500±48%	150,300±18%	64,500±25%	58,300±25%
Total Active Goose Hunters	1,100±26%	1,100±23%	37,800±12%	33,400±12%	13,700±13%	11,100±15%
Total Goose Hunter Days Afield	5,800±38%	7,100±32%	258,800±19%	251,100±15%	71,300±23%	77,400±31%
Seasonal Goose Harvest Per Hunter	2.8±50%	4.8±52%	6.5±50%	4.5±22%	4.7±28%	5.3±29%
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Active Waterfowl Hunters	3,700±15%	3,400±12%	60,200±10%	53,300±11%	22,700±11%	18,300±13%
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Sample Sizes						
Duck Wings	885	707	8,134	8,247	2,103	1,721
Goose Tails	32	26	877	858	492	374

Table 1D. Preliminary estimates of waterfowl harvest and hunter activity in the Pacific Flyway during the 2008 and 2009 hunting seasons.

Duck Species Composition	Montana		Nevada		Oregon	
	2008	2009	2008	2009	2008	2009
Mallard	85,291	67,811	10,748	14,914	265,271	147,480
Domestic Mallard	196	0	147	0	499	70
Black Duck	0	0	0	0	0	0
Mallard x Black Duck Hybrid	0	0	0	0	0	0
Mottled Duck	0	0	0	0	0	0
Gadwall	9,215	6,283	4,690	4,636	14,802	13,844
Wigeon	7,745	8,233	2,931	4,133	123,738	59,618
Green-winged Teal	5,490	8,124	4,104	7,988	101,452	49,322
Blue-winged/Cinnamon Teal	1,078	867	195	447	499	139
Northern Shoveler	980	2,167	3,127	3,296	17,796	12,104
Northern Pintail	2,745	2,708	1,319	2,123	57,877	39,653
Wood Duck	882	1,842	195	168	13,139	7,444
Redhead	784	1,517	440	559	333	209
Canvasback	98	217	0	279	166	835
Greater Scaup	98	0	0	0	6,320	5,009
Lesser Scaup	686	758	195	168	5,322	5,078
Ring-necked Duck	1,373	975	831	503	12,640	4,522
Goldeneyes	1,569	2,275	440	391	4,657	3,478
Bufflehead	294	650	440	670	16,964	8,904
Ruddy Duck	0	325	98	56	0	139
Long-tailed Duck	0	0	0	0	0	0
Eiders	0	0	0	0	0	0
Scoters	0	0	0	0	100	300
Hooded Merganser	294	325	0	168	1,164	1,739
Other Mergansers	980	325	0	503	1,497	1,113
Other Ducks	0	0	0	0	166	0
Total Duck Harvest	119,800±21%	105,400±21%	29,900±21%	41,000±20%	644,400±15%	361,000±21%
Total Active Duck Hunters	12,600±15%	11,500±16%	2,600±21%	3,500±19%	23,600±7%	18,700±9%
Total Duck Hunter Days Afield	56,600±16%	50,500±17%	15,100±22%	22,200±18%	237,700±12%	147,600±13%
Seasonal Duck Harvest Per Hunter	9.5±26%	9.1±27%	11.4±29%	11.7±27%	27.3±16%	19.3±22%
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Goose Species Composition						
Canada Goose	38,769	43,948	5,130	5,831	93,419	54,537
Snow Goose	1,385	1,481	90	1,693	3,231	4,218
Blue Goose	0	0	0	0	0	0
Ross's Goose	646	123	180	376	404	222
White-fronted Goose	0	247	0	0	8,346	1,924
Brant	0	0	0	0	3	100
Other Geese	0	0	0	0	0	0
Total Goose Harvest	40,800±24%	45,800±18%	5,400±36%	7,900±37%	105,400±24%	61,000±16%
Total Active Goose Hunters	10,200±17%	12,100±17%	1,900±22%	2,400±22%	13,800±9%	10,100±11%
Total Goose Hunter Days Afield	39,600±19%	48,400±22%	8,900±29%	12,500±29%	90,500±15%	66,700±17%
Seasonal Goose Harvest Per Hunter	4.0±29%	3.8±25%	2.8±42%	3.4±43%	7.7±25%	6.0±20%
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Active Waterfowl Hunters	15,600±14%	15,900±15%	3,100±20%	4,000±18%	24,800±6%	20,500±9%
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Sample Sizes						
Duck Wings	1,222	973	612	734	3,882	5,189
Goose Tails	442	371	60	42	784	826

Table 1D. Preliminary estimates of waterfowl harvest and hunter activity in the Pacific Flyway during the 2008 and 2009 hunting seasons.

Duck Species Composition	Utah		Washington		Flyway Total	
	2008	2009	2008	2009	2008	2009
Mallard	58,177	69,379	219,726	166,231	1,080,963	884,262
Domestic Mallard	294	106	97	0	2,281	966
Black Duck	0	0	0	0	0	0
Mallard x Black Duck Hybrid	0	0	0	0	0	0
Mottled Duck	0	0	0	0	0	0
Gadwall	22,761	21,887	9,236	10,779	181,781	192,648
Wigeon	16,678	15,618	68,154	77,385	519,105	384,900
Green-winged Teal	33,160	29,430	35,584	32,111	665,932	532,998
Blue-winged/Cinnamon Teal	7,260	6,056	0	454	52,678	46,370
Northern Shoveler	15,697	11,050	6,611	9,758	257,807	200,698
Northern Pintail	15,108	16,893	24,792	34,835	277,230	279,080
Wood Duck	589	106	5,445	4,879	60,734	45,809
Redhead	3,434	4,781	2,333	3,291	17,677	18,453
Canvasback	0	1,806	0	4,766	867	18,009
Greater Scaup	0	106	2,722	4,993	11,211	15,523
Lesser Scaup	2,649	2,125	3,014	6,922	27,406	30,161
Ring-necked Duck	1,373	2,019	5,445	5,560	50,145	35,638
Goldeneyes	5,494	2,125	3,014	3,744	30,686	33,527
Bufflehead	2,256	1,487	6,222	4,993	41,782	34,465
Ruddy Duck	294	637	194	0	4,880	6,536
Long-tailed Duck	0	0	486	567	486	800
Eiders	0	0	0	0	0	0
Scoters	0	106	4,570	8,283	6,070	9,589
Hooded Merganser	196	319	875	794	4,586	5,570
Other Mergansers	1,079	1,062	681	340	5,127	4,958
Other Ducks	98	0	0	113	1,166	935
Total Duck Harvest	186,600±14%	187,100±25%	399,200±18%	380,800±25%	3,300,600±10%	2,781,900±12%
Total Active Duck Hunters	16,600±14%	14,000±18%	20,900±12%	19,200±16%	157,700 ^c	136,900 ^c
Total Duck Hunter Days Afield	107,200±17%	115,300±37%	157,200±18%	154,700±19%	1,303,300±8%	1,134,100±9%
Seasonal Duck Harvest Per Hunter	11.2±19%	13.4±30%	19.1±22%	19.8±29%		
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Goose Species Composition						
Canada Goose	23,629	20,008	54,601	65,506	331,807	305,233
Snow Goose	403	292	10,920	14,102	87,074	53,931
Blue Goose	0	0	0	0	200	203
Ross's Goose	134	0	0	182	15,274	10,052
White-fronted Goose	134	0	383	910	119,649	59,182
Brant	0	0	0	1,100	1,003	2,100
Other Geese	0	0	96	0	96	0
Total Goose Harvest	24,300±29%	20,300±46%	66,000±15%	81,800±28%	555,100±22%	430,700±10%
Total Active Goose Hunters	9,400±17%	8,500±22%	12,000±11%	12,900±14%	99,900 ^c	91,600 ^c
Total Goose Hunter Days Afield	47,500±21%	53,700±34%	65,900±17%	81,300±24%	588,200±10%	598,300±9%
Seasonal Goose Harvest Per Hunter	2.6±33%	2.4±51%	5.5±19%	6.3±31%		
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Active Waterfowl Hunters	19,100±13%	15,000±17%	22,800±11%	21,100±15%	172,100 ^c	151,600 ^c
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Sample Sizes						
Duck Wings	1,902	1,761	4,106	3,356	22,846	22,688
Goose Tails	181	139	699	895	3,567	3,531

Table 1E. Preliminary estimates of waterfowl harvest and hunter activity in Alaska and the United States during the 2008 and 2009 hunting seasons.

Duck Species Composition	Alaska		United States Total	
	2008	2009	2008	2009
Mallard	22,126	21,078	4,554,969	4,135,196
Domestic Mallard	0	0	11,684	12,490
Black Duck	0	0	120,150	111,880
Mallard x Black Duck Hybrid	0	0	14,389	12,868
Mottled Duck	0	0	94,938	81,986
Gadwall	1,010	718	1,464,272	1,401,774
Wigeon	9,901	10,572	874,348	712,358
Green-winged Teal	9,396	7,766	1,997,465	1,694,073
Blue-winged/Cinnamon Teal	0	0	843,920	1,190,638
Northern Shoveler	1,515	3,850	588,296	643,500
Northern Pintail	7,779	7,178	536,519	498,762
Wood Duck	0	0	1,143,820	1,098,345
Redhead	101	0	119,683	169,814
Canvasback	202	131	18,172	70,392
Greater Scaup	303	587	49,465	55,139
Lesser Scaup	303	392	179,561	222,066
Ring-necked Duck	505	1,044	500,686	409,651
Goldeneyes	4,647	2,676	86,412	88,644
Bufflehead	1,010	1,109	243,010	231,902
Ruddy Duck	0	0	30,195	34,904
Long-tailed Duck	0	592	37,012	22,182
Eiders	0	0	15,857	16,138
Scoters	6,477	1,775	54,264	52,279
Hooded Merganser	0	0	89,742	96,345
Other Mergansers	2,159	4,142	37,883	40,716
Other Ducks	864	592	16,490	35,752
Total Duck Harvest	68,300±11%	64,200±12%	13,723,200±4%	13,139,800±4%
Total Active Duck Hunters^a	5,200±6%	4,900±7%	980,500^c	976,100^c
Total Duck Hunter Days Afield^d	25,700±12%	25,200±10%	6,686,400±3%	6,771,900±4%
Seasonal Duck Harvest Per Hunter	12.9±13%	13.2±14%		
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Goose Species Composition				
Canada Goose	5,422	4,889	2,844,840	2,705,672
Snow Goose	0	0	425,177	262,411
Blue Goose	0	0	129,928	79,129
Ross's Goose	339	0	72,787	35,494
White-fronted Goose	339	1,811	319,332	205,243
Brant	1,700	1,100	29,853	38,323
Other Geese	0	0	234	728
Total Goose Harvest	7,800±24%	7,800±25%	3,822,200±5%	3,327,000±5%
Total Active Goose Hunters^b	2,000±13%	2,000±12%	687,000^c	643,900^c
Total Goose Hunter Days Afield^b	8,900±19%	8,900±16%	3,851,400±4%	3,789,800±4%
Seasonal Goose Harvest Per Hunter	3.9±27%	3.8±28%		
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Active Waterfowl Hunters	5,700±6%	5,400±6%	1,155,400^c	1,137,000^c
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Sample Sizes				
Duck Wings	604	887	79,588	78,113
Goose Tails	56	62	20,965	18,120

^a Duck hunter statistics do not include sea duck hunter statistics for states with special sea duck seasons or sea duck permits: Connecticut, Delaware, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Rhode Island, Virginia, California, Oregon, and Alaska. (Refer to Table 3.)

^b Goose hunter statistics do not include brant hunter statistics for coastal states with brant seasons: Connecticut, Delaware, Maryland, Massachusetts, New Jersey, New York, North Carolina, Rhode Island, Virginia, California, Oregon, Washington, and Alaska. (Refer to Table 4.)

^c Hunter number estimates at the flyway and national levels may be biased high because the HIP sample frames are state-specific; therefore hunters are counted twice if they hunt in more than one state. Variance inestimable.

Table 2. Flyway-specific point estimates of duck and goose harvest in Colorado, Montana, New Mexico, and Wyoming during the 2008 and 2009 hunting seasons.

	2008		2009	
	Central Flyway	Pacific Flyway	Central Flyway	Pacific Flyway
Duck Harvest				
Colorado	101,100	10,800	79,200	41,700
Montana	38,300	81,500	43,000	62,400
New Mexico	26,500	7,500	28,300	5,500
Wyoming	26,900	6,500	32,700	11,800
Goose Harvest				
Colorado	93,500	3,500	77,100	17,000
Montana	16,200	24,600	26,800	19,000
New Mexico	2,700	2,000	2,900	2,800
Wyoming	22,500	5,000	17,100	4,100

Table 3. Preliminary estimates of sea duck harvest and hunter activity for states with special sea duck seasons or sea duck permits during the 2008 and 2009 hunting seasons. ¹

State / Flyway	Sea Duck Harvest ²		Active Sea Duck Hunters ³		Sea Duck Hunter Days Afield		Seasonal Harvest Per Hunter	
	2008	2009	2008	2009	2008	2009	2008	2009
Connecticut	3,100 ± 90%	2,900 ± 67%	800 ± 47%	500 ± 46%	2,600 ± 65%	1,500 ± 52%	3.9 ± 102%	6.0 ± 81%
Delaware	1,700 ± 75%	1,600 ± 62%	200 ± 62%	200 ± 59%	800 ± 91%	400 ± 51%	7.6 ± 97%	7.1 ± 85%
Maine	19,500 ± 75%	5,900 ± 68%	1,700 ± 32%	1,000 ± 61%	6,800 ± 51%	3,700 ± 87%	11.6 ± 82%	6.0 ± 92%
Maryland	16,600 ± 34%	16,100 ± 44%	3,200 ± 25%	2,600 ± 28%	7,300 ± 29%	8,000 ± 40%	5.2 ± 42%	6.2 ± 52%
Massachusetts	9,200 ± 33%	9,300 ± 50%	1,400 ± 22%	1,200 ± 24%	3,900 ± 27%	4,100 ± 28%	6.8 ± 40%	7.4 ± 56%
New Hampshire	1,100 ± 48%	1,400 ± 68%	200 ± 40%	500 ± 59%	400 ± 37%	1,400 ± 71%	5.2 ± 62%	3.0 ± 90%
New Jersey	2,100 ± 59%	3,300 ± 98%	500 ± 35%	600 ± 57%	1,800 ± 64%	2,600 ± 102%	4.3 ± 68%	5.2 ± 114%
New York	10,500 ± 40%	12,300 ± 35%	1,600 ± 29%	1,700 ± 25%	6,100 ± 42%	9,600 ± 40%	6.6 ± 50%	7.3 ± 44%
Rhode Island	1,000 ± 49%	1,700 ± 67%	100 ± 26%	200 ± 39%	600 ± 37%	700 ± 50%	6.8 ± 55%	8.9 ± 78%
Virginia	12,000 ± 69%	6,800 ± 51%	2,000 ± 41%	1,900 ± 36%	10,800 ± 95%	4,900 ± 42%	6.1 ± 80%	3.5 ± 62%
Atlantic Flyway Total	76,600 ± 24%	61,300 ± 19%	11,600	10,500	41,200 ± 28%	36,700 ± 19%		
California	1,400 ± 66%	1,000 ± 105%	900 ± 85%	400 ± 76%	2,300 ± 92%	3,400 ± 138%	1.5 ± 108%	2.8 ± 129%
Oregon	100 ± 45%	300 ± 50%	100 ± 119%	200 ± 73%	500 ± 137%	500 ± 64%	0.6 ± 127%	1.9 ± 89%
Pacific Flyway	1,400 ± 64%	1,300 ± 81%	1,000	500	2,800 ± 80%	3,900 ± 122%		
Alaska ⁴	8,000 ± 26%	7,100 ± 32%	1,100 ± 19%	1,100 ± 20%	5,500 ± 58%	4,400 ± 25%	7.5 ± 33%	6.7 ± 38%
U.S. Total	86,100 ± 22%	69,800 ± 17%	13,700	12,100	49,500 ± 25%	45,000 ± 19%		

¹ Variance estimates presented as 95% confidence interval as percent of the point estimate.

² Sea ducks include Long-tailed Ducks, Common Eiders, King Eiders, Black Scoters, Whited-winged Scoters, and Surf Scoters.

³ Hunter number estimates at the management unit and national levels may be biased high, because the HIP sample frames are state specific; therefore hunters are counted more than once if they hunt in >1 state. Variance inestimable.

⁴ In addition to the aforementioned, sea ducks also include Harlequin Ducks, Common Mergansers, and Red-breasted Mergansers in Alaska.

Table 4. Preliminary estimates of Brant harvest and hunter activity along the Atlantic and Pacific coasts during the 2008 and 2009 hunting seasons. ¹

State / Flyway	Brant Harvest		Active Brant Hunters ²		Brant Hunter Days Afield		Seasonal Harvest Per Hunter	
	2008	2009	2008	2009	2008	2009	2008	2009
Connecticut	300 ± 194%	500 ± 120%	100 ± 137%	200 ± 111%	500 ± 172%	1,400 ± 129%	2.5 ± 238%	2.0 ± 163%
Delaware	1,500 ± 52%	900 ± 51%	400 ± 47%	300 ± 47%	1,000 ± 66%	800 ± 52%	4.0 ± 70%	2.7 ± 69%
Maryland	1,800 ± 82%	2,200 ± 89%	400 ± 60%	500 ± 63%	1,000 ± 74%	2,700 ± 89%	4.4 ± 102%	4.3 ± 109%
Massachusetts	1,100 ± 50%	400 ± 42%	600 ± 40%	200 ± 51%	1,600 ± 47%	1,200 ± 55%	1.8 ± 64%	2.0 ± 66%
New Hampshire	100 ± 106%	0	100 ± 78%	100 ± 137%	100 ± 87%	600 ± 138%	0.8 ± 131%	0
New Jersey	7,800 ± 31%	8,300 ± 46%	1,500 ± 20%	2,200 ± 32%	5,600 ± 29%	10,600 ± 45%	5.1 ± 37%	3.8 ± 56%
New York	7,700 ± 32%	7,100 ± 34%	1,500 ± 27%	1,500 ± 25%	8,200 ± 32%	9,500 ± 31%	5.0 ± 42%	4.8 ± 42%
North Carolina	3,700 ± 77%	11,400 ± 77%	1,300 ± 57%	2,400 ± 44%	3,200 ± 68%	10,600 ± 72%	2.9 ± 96%	4.7 ± 89%
Rhode Island	1,400 ± 58%	600 ± 48%	300 ± 46%	200 ± 30%	1,500 ± 40%	900 ± 43%	4.7 ± 74%	3.5 ± 57%
Virginia	5,500 ± 39%	3,300 ± 42%	2,100 ± 39%	1,200 ± 39%	5,300 ± 37%	2,700 ± 34%	2.6 ± 55%	2.8 ± 57%
Atlantic Flyway Total	30,800 ± 17%	34,800 ± 29%	8,300	8,800	28,000 ± 16%	41,000 ± 25%		
California	1,000 ± 36%	900 ± 37%	600 ± 117%	300 ± 100%	1,500 ± 56%	3,400 ± 151%	1.7 ± 123%	3.2 ± 106%
Oregon	<50 ± 112%	100 ± 76%	100 ± 130%	<50 ± 58%	200 ± 126%	100 ± 66%	<0.1 ± 172%	2.4 ± 95%
Washington	0	1,100 ± 195%	200 ± 138%	400 ± 138%	300 ± 145%	900 ± 161%	0	3.0 ± 239%
Pacific Flyway Total	1,000 ± 36%	2,100 ± 104%	900	700	2,000 ± 49%	4,400 ± 122%		
Alaska	1,700 ± 46%	1,100 ± 36%	300 ± 28%	400 ± 30%	1,700 ± 64%	2,000 ± 57%	5.7 ± 53%	2.6 ± 47%
U.S. Total	33,500 ± 16%	38,000 ± 27%	9,500	10,000	31,700 ± 15%	47,400 ± 24%		

¹ Variance estimates presented as 95% confidence interval as percent of the point estimate.

² Hunter number estimates at the management unit and national levels may be biased high, because the HIP sample frames are state specific; therefore hunters are counted more than once if they hunt in >1 state. Variance inestimable.

Table 5. Preliminary harvest estimates for special September teal/duck seasons during the 2008 and 2009 hunting seasons.

State	Harvest										Number of	
	Green-winged Teal		Blue-winged/Cinnamon Teal		Wood Duck		Other Ducks		Total Duck Harvest		Wings Received	
	2008	2009	2008	2009	2008	2009	2008	2009	2008	2009	2008	2009
September Teal Season												
Delaware	1,359	1,212	0	186	0	0	0	0	1,359	1,398	14	15
Georgia	0	0	0	465	0	0	0	0	0	465	0	1
Maryland	1,851	1,173	1,111	2,200	0	0	0	0	2,961	3,373	16	23
North Carolina	0	0	0	0	291	0	97	0	388	0	4	0
South Carolina	0	232	1,821	6,716	0	0	0	0	1,821	6,947	12	30
Virginia	657	352	751	352	0	0	94	264	1,502	969	16	11
Subtotal	3,867	2,969	3,683	9,919	291	0	191	264	8,032	13,152	62	80
Alabama	245	0	5,639	9,890	0	0	0	0	5,884	9,890	24	18
Arkansas	403	0	16,509	9,956	0	0	0	0	16,912	9,956	42	24
Illinois	1,498	1,425	6,989	17,816	0	238	0	0	8,486	19,478	34	82
Indiana	491	853	3,111	4,097	0	1,024	164	0	3,766	5,974	23	35
Louisiana	3,674	1,965	130,075	179,337	0	0	367	0	134,117	181,302	365	369
Mississippi	0	0	4,324	539	0	0	0	0	4,324	539	19	2
Missouri	4,418	1,758	24,851	15,294	0	0	0	0	29,270	17,052	159	97
Ohio	764	639	764	3,673	0	0	0	319	1,528	4,631	10	29
Subtotal	11,493	6,641	192,262	240,602	0	1,262	531	319	204,286	248,824	676	656
Colorado	1,370	418	4,657	2,092	0	0	0	139	6,026	2,649	44	19
Kansas	7,200	2,375	15,120	15,165	0	0	480	0	22,800	17,540	95	96
Nebraska	10,244	1,890	20,037	11,513	0	0	0	0	30,281	13,403	201	78
New Mexico	146	283	256	755	0	0	0	0	402	1,039	11	44
Oklahoma	2,120	2,055	8,586	8,006	0	0	0	0	10,706	10,061	101	93
Texas	7,259	13,190	59,247	130,142	0	0	0	0	66,506	143,332	339	652
Subtotal	28,339	20,212	107,903	167,672	0	0	480	139	136,722	188,024	791	982
Total	43,699	29,822	303,847	418,193	291	1,262	1,202	723	349,039	449,999	1,529	1,718
September Duck Season												
Florida	0	205	1,688	7,490	1,266	1,231	0	103	2,953	9,028	28	88
Kentucky	0	323	950	0	27,557	11,948	950	0	29,458	12,271	31	38
Tennessee	0	811	1,939	4,055	7,027	11,624	0	0	8,966	16,490	37	61
Total	0	1,339	4,576	11,544	35,850	24,803	950	103	41,377	37,789	96	187
U.S. Total	43,699	31,161	308,424	429,737	36,141	26,065	2,152	826	390,416	487,789	1,625	1,905

Table 6. Preliminary estimates of the number of Canada geese harvested during the special September, regular, and special late seasons during the 2008 and 2009 hunting seasons.

State / Flyway	September		Regular		Late		Total	
	2008	2009	2008	2009	2008	2009	2008	2009
Connecticut	6,400	2,700	16,500	6,300	0	0	22,800	9,100
Delaware	2,200	1,400	26,400	23,400	---	---	28,600	24,900
Florida	0	0	0	2,500	---	---	0	2,500
Georgia	8,100	21,100	24,000	52,200	---	---	32,100	73,300
Maine	5,500	1,600	8,300	3,100	---	---	13,800	4,700
Maryland	6,500	6,500	207,200	156,500	---	---	213,700	163,000
Massachusetts	4,600	4,200	7,300	9,400	1,200	2,900	13,100	16,500
New Hampshire	3,400	4,500	3,600	6,900	---	---	7,000	11,400
New Jersey	6,500	12,700	22,800	32,500	1,100	2,100	30,400	47,300
New York	78,000	63,000	85,200	108,900	---	0	163,300	172,000
North Carolina	10,500	16,500	35,900	33,500	---	---	46,500	50,000
Pennsylvania	70,400	54,600	161,200	107,300	---	---	231,600	161,900
Rhode Island	1,400	900	2,500	1,800	200	200	4,100	2,800
South Carolina	10,000	23,000	13,800	9,700	---	---	23,800	32,700
Vermont	6,200	6,400	6,100	5,200	---	---	12,300	11,500
Virginia	17,500	16,800	38,000	46,900	16,800	0	72,200	63,700
West Virginia	1,400	900	3,300	6,100	---	---	4,700	7,000
Atlantic Flyway Total	238,400	236,900	662,000	612,300	19,500	5,200	920,000	854,300
Alabama	0	0	9,400	22,900	---	---	9,400	22,900
Arkansas	4,600	2,300	6,900	23,900	---	---	11,500	26,200
Illinois	15,100	13,500	135,000	143,300	---	---	150,100	156,900
Indiana	14,400	19,800	46,500	39,000	6,900	5,700	67,700	64,600
Iowa	600	0	61,600	62,000	---	---	62,200	62,000
Kentucky	7,100	6,100	33,200	26,700	---	---	40,300	32,800
Louisiana	0	0	0	0	---	---	0	0
Michigan	52,200	74,500	115,800	87,800	4,800	0	172,700	162,300
Minnesota	116,800	68,500	104,100	79,200	---	---	221,000	147,700
Mississippi	3,200	0	1,600	10,900	---	---	4,800	10,900
Missouri	0	0	81,900	66,900	---	---	81,900	66,900
Ohio	16,500	17,700	55,500	64,900	---	---	72,100	82,600
Tennessee	7,100	14,400	10,900	28,300	---	---	18,000	42,800
Wisconsin	33,200	22,200	77,000	75,100	---	---	110,200	97,300
Mississippi Flyway Total	270,700	239,000	739,400	731,200	11,600	5,700	1,021,700	975,900
Kansas	0	0	87,100	92,300	---	---	87,100	92,300
Nebraska	1,900	2,600	83,400	76,400	---	---	85,300	79,000
North Dakota ^a	18,400	18,700	64,200	67,600	---	---	99,100	101,600
Oklahoma	3,100	1,200	31,900	26,800	---	---	35,000	28,100
South Dakota	26,100	36,300	68,400	62,400	---	---	94,500	98,700
Colorado	0	0	3,500	17,000	---	---	3,500	17,000
Oregon	10,400	5,300	83,100	49,200	---	---	93,400	54,500
Washington	2,500	2,600	50,500	60,600	1,600	2,300	54,600	65,500
Wyoming	700	0	4,300	4,100	---	---	5,000	4,100

^a The total harvest for North Dakota includes geese taken during the August conservation order: 16,500 in 2008 and 15,300 in 2009.

Table 7. Waterfowl harvest estimates in Canada during the 2008 and 2009 hunting seasons (estimates courtesy of the Canadian Wildlife Service).

Duck Species Composition	Newfoundland		Prince Edward Isl.		Nova Scotia		New Brunswick		Quebec		Ontario		Manitoba	
	2008	2009	2008	2009	2008	2009	2008	2009	2008	2009	2008	2009	2008	2009
Mallard	48	80	1,725	651	4,748	4,079	5,662	3,377	69,899	65,216	119,971	106,537	60,690	61,460
Black Duck	22,067	13,583	5,829	5,049	22,764	18,788	12,285	9,719	29,154	29,150	11,094	14,173	160	155
Gadwall	0	0	330	106	25	315	306	112	1,979	1,495	2,213	2,921	5,905	2,649
Wigeon	0	0	75	212	677	167	1,013	924	2,002	861	5,772	5,503	1,631	2,311
Green-winged Teal	3,993	2,734	1,217	1,412	6,691	3,789	4,541	2,111	34,876	28,018	16,608	18,258	5,205	3,573
Blue-winged/Cinnamon Teal	0	0	108	531	224	207	1,165	1,172	1,237	2,849	5,004	5,552	13,309	5,965
Northern Shoveler	0	0	0	0	0	136	69	150	801	589	262	817	3,578	4,180
Northern Pintail	427	0	252	190	393	104	427	504	4,887	4,039	5,745	4,684	7,911	4,582
Wood Duck	133	0	0	0	578	1,386	2,169	4,258	14,629	18,327	46,824	36,881	1,803	269
Redhead	0	0	0	0	0	0	0	0	85	295	3,581	3,459	6,020	12,547
Canvasback	0	0	0	0	0	0	0	0	0	0	1,018	958	3,667	7,897
Greater Scaup	0	0	41	0	414	223	243	155	1,447	912	5,876	3,244	343	540
Lesser Scaup	215	0	33	48	90	247	118	343	3,379	2,710	14,647	7,063	12,087	8,238
Ring-necked Duck	4,637	7,194	1,117	1,040	851	832	2,425	1,782	3,599	3,725	16,426	14,942	3,490	3,772
Goldeneyes	1,495	1,417	138	179	4,309	1,301	2,802	3,030	3,021	3,352	7,446	9,499	643	1,839
Bufflehead	0	0	0	0	869	0	429	40	442	746	9,345	8,057	2,039	3,391
Ruddy Duck	0	0	0	0	0	0	0	0	0	0	606	149	0	0
Long-tailed Duck	559	0	0	0	131	889	62	0	302	305	725	513	0	0
Eiders	21,055	10,495	0	0	3,540	4,808	2,272	687	2,466	1,856	0	0	863	0
Scoters	496	0	0	0	2,639	1,509	89	81	4,799	1,285	750	522	64	0
Hooded Merganser	147	0	205	327	371	338	798	37	3,393	2,335	3,884	5,573	579	1,003
Other Mergansers	3,805	12,156	94	370	1,672	1,353	131	0	1,730	1,671	1,718	3,643	0	0
Other Ducks	0	0	0	0	45	0	0	0	109	0	0	0	0	0
Total Duck Harvest	59,079	47,659	11,164	10,115	51,031	40,471	37,006	28,482	184,236	169,736	279,513	252,948	129,988	124,371
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Goose Species Composition														
Canada Goose	6,871	4,025	16,468	11,926	10,040	9,056	9,916	9,638	138,873	126,678	194,242	190,433	91,804	99,955
Snow Goose	0	0	0	0	75	257	209	0	89,561	50,625	121	868	13,781	3,236
Blue Goose	0	0	0	0	0	0	0	0	1,172	640	0	104	18,053	5,887
Ross's Goose	0	0	301	0	0	0	0	0	0	0	141	0	10,151	2,399
White-fronted Goose	0	0	0	0	0	0	0	0	0	0	0	0	139	0
Brant	0	0	0	0	0	0	0	0	1,014	0	51	0	0	0
Total Goose Harvest	6,871	4,025	16,770	11,926	10,115	9,313	10,125	9,638	230,620	177,943	194,556	191,405	133,926	111,477
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Migratory Bird Permits Sold	16,144	15,683	1,577	1,685	5,576	5,552	5,530	5,560	29,119	28,509	55,016	55,587	13,545	12,644

Table 7 (continued). Waterfowl harvest estimates in Canada during the 2008 and 2009 hunting seasons (estimates courtesy of the Canadian Wildlife Service).

Duck Species Composition	Saskatchewan		Alberta		British Columbia		Nunavut		Northwest Terr.		Yukon Territory		Canada Total	
	2008	2009	2008	2009	2008	2009	2008	2009	2008	2009	2008	2009	2008	2009
Mallard	150,906	135,546	97,567	62,778	35,924	32,736	0	0	0	0	488	67	547,628	472,527
Black Duck	184	0	0	0	0	0	0	0	0	0	0	0	103,537	90,617
Gadwall	16,212	17,720	16,366	9,539	738	1,082	0	0	0	0	0	0	44,074	35,939
Wigeon	4,001	3,873	6,362	7,686	8,150	6,153	0	0	0	0	0	22	29,683	27,712
Green-winged Teal	6,683	1,147	5,884	4,162	2,286	2,158	0	0	0	0	244	0	88,228	67,362
Blue-winged/Cinnamon Teal	15,132	2,624	7,894	2,931	221	104	0	0	0	0	0	0	44,294	21,935
Northern Shoveler	5,958	6,045	6,982	3,128	827	444	0	0	0	0	244	0	18,721	15,489
Northern Pintail	15,076	17,226	12,833	6,138	2,989	2,837	0	0	0	0	0	22	50,940	40,326
Wood Duck	0	333	0	0	0	0	0	0	0	0	0	0	66,136	61,454
Redhead	2,360	760	3,521	905	0	0	0	0	0	0	0	0	15,567	17,966
Canvasback	2,310	456	2,265	797	35	0	0	0	0	0	0	0	9,295	10,108
Greater Scaup	0	0	140	0	35	0	0	0	0	0	0	22	8,539	5,096
Lesser Scaup	0	826	7,259	7,700	281	202	0	0	0	0	0	22	38,109	27,399
Ring-necked Duck	1,816	0	1,564	2,177	262	198	0	0	0	0	0	0	36,187	35,662
Goldeneyes	0	0	1,964	368	587	593	0	0	0	0	0	0	22,405	21,578
Bufflehead	611	413	2,609	2,138	735	30	0	0	0	0	0	0	17,079	14,815
Ruddy Duck	1,513	0	0	0	0	0	0	0	0	0	0	0	2,119	149
Long-tailed Duck	0	0	0	0	0	0	0	0	0	0	0	0	1,779	1,707
Eiders	0	0	0	0	0	0	0	0	0	0	0	0	30,196	17,846
Scoters	0	0	0	226	0	19	0	0	0	0	0	0	8,837	3,642
Hooded Merganser	0	270	191	187	248	0	0	0	0	0	0	0	9,816	10,070
Other Mergansers	0	0	0	0	32	0	0	0	0	0	0	0	9,182	19,193
Other Ducks	0	0	0	0	0	0	0	0	334	0	0	0	154	
Total Duck Harvest	222,761	187,239	173,402	110,860	53,351	46,556	0	0	334	0	975	155	1,202,840	1,018,592
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Goose Species Composition														
Canada Goose	155,728	140,922	125,624	102,591	10,642	15,873	0	0	0	0	0	116	760,208	711,213
Snow Goose	65,275	46,561	9,477	10,762	2,406	1,316	0	0	0	0	0	0	180,905	113,625
Blue Goose	53,033	34,192	93	851		0	0	0	0	0	0	0	72,351	41,674
Ross's Goose	35,227	20,655	2,345	982		0	0	0	0	0	0	0	48,165	24,036
White-fronted Goose	55,647	30,882	37,893	23,173	183	158	0	0	0	0	0	0	93,862	54,213
Brant	0	0	0	0	0	0	0	0	0	0	0	0	1,065	0
Total Goose Harvest	364,908	273,212	175,432	138,359	13,232	17,347	0	33	0	0	78	116	1,156,633	944,761
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Migratory Bird Permits Sold	18,050		20,446		6,360		22		190	217	183		171,762	169,539

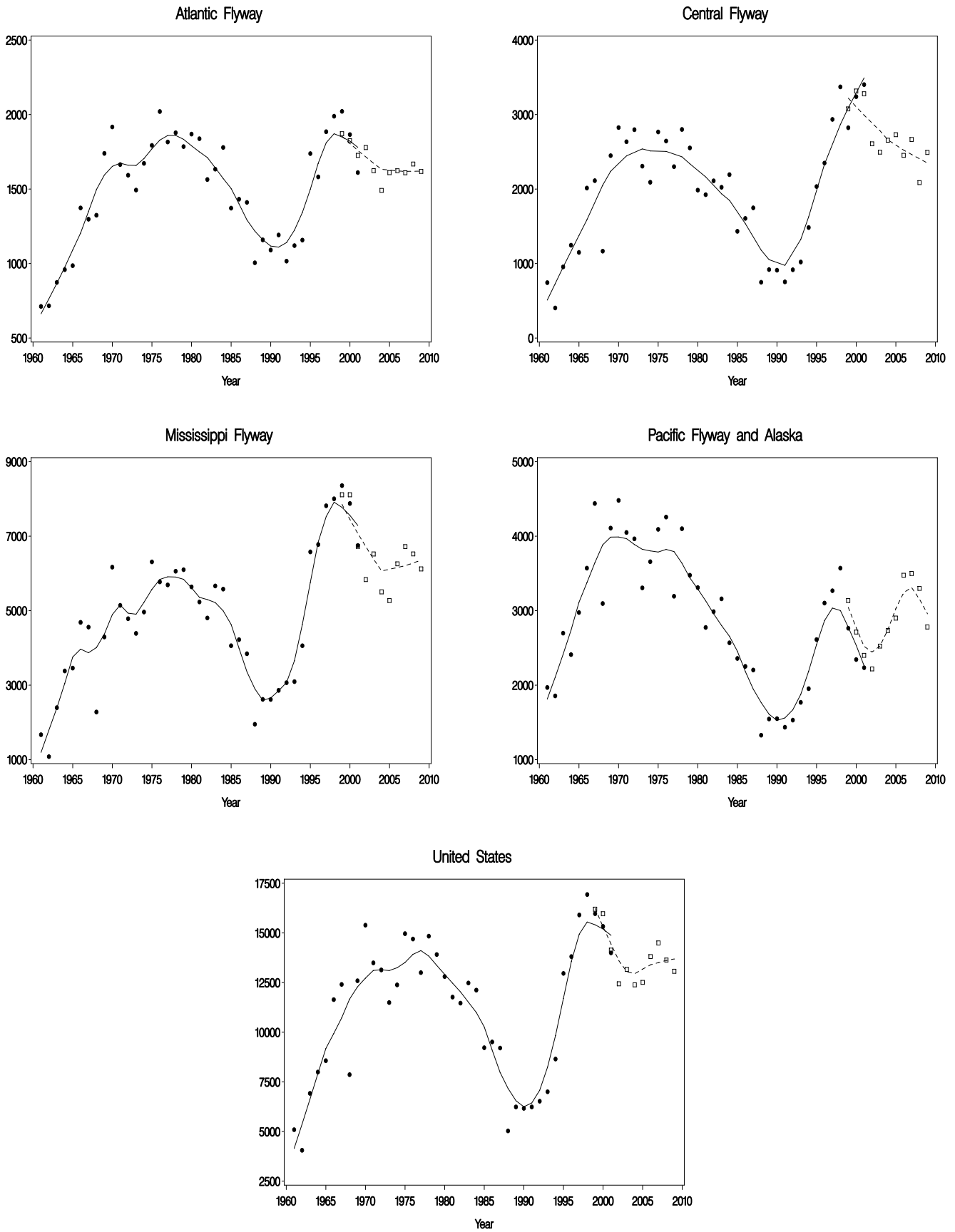


Figure 1. Number of ducks harvested (in thousands) by hunters in the the United States, 1961-2008. (Federal Duck Stamp Survey - circles and solid line; HIP survey squares and dashed line).

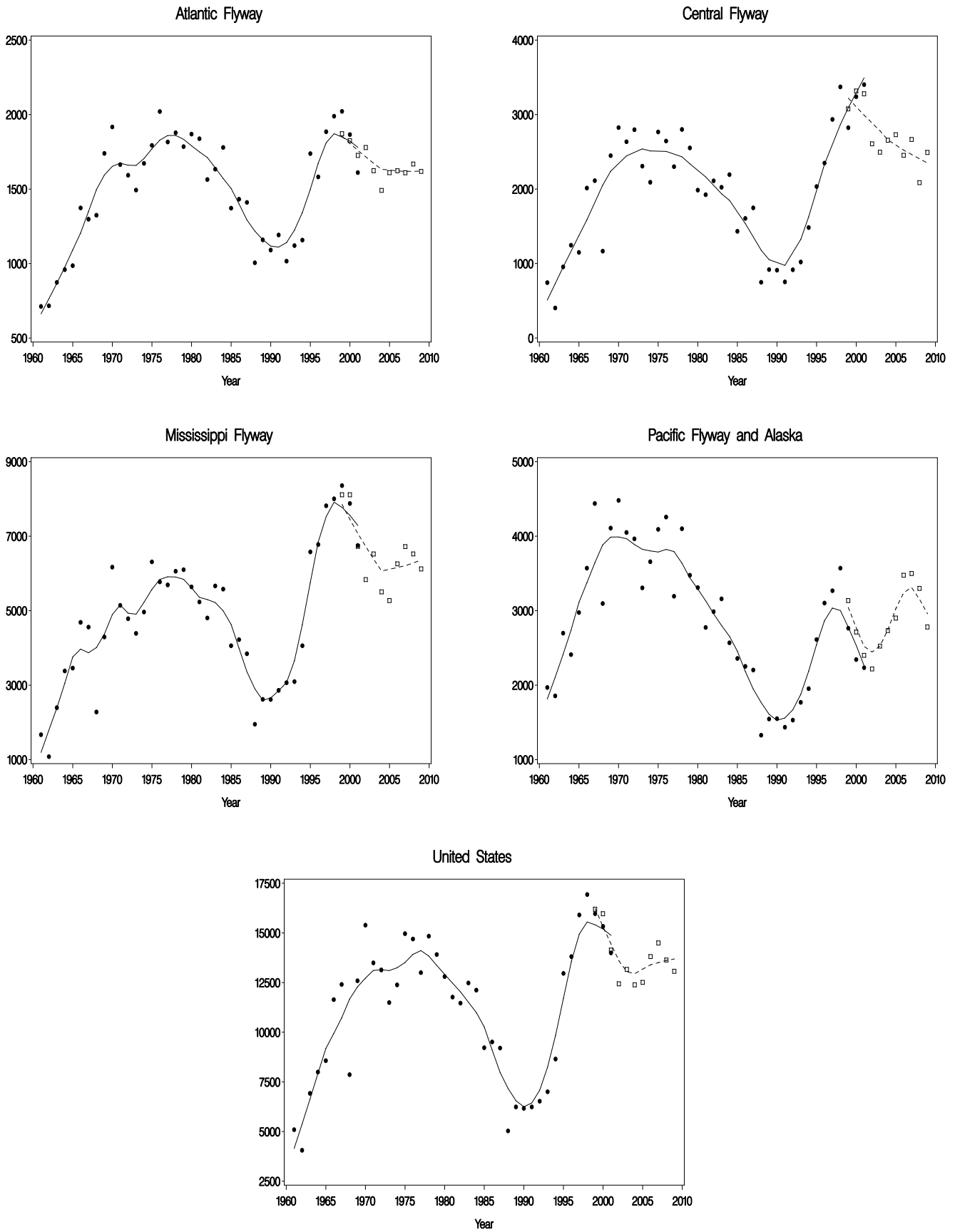


Figure 2. Number of geese harvested (in thousands) by hunters in the the United States, 1961-2008. (Federal Duck Stamp Survey - circles and solid line; HIP survey squares and dashed line).

Table 8. Preliminary weighted age ratios of mallards in state harvests during the 2005-2009 hunting seasons as determined from Waterfowl Parts Collection Survey.

State and Flyway	Immatures per adult ^a				
	2005	2006	2007	2008	2009
Connecticut	1.5	1.2	1.8	1.0	1.4
Delaware	1.6	1.4	1.9	1.5	1.6
Florida	---	4.0	3.0	---	---
Georgia	1.5	1.8	---	1.0	1.2
Maine	1.9	1.7	1.9	2.0	2.8
Maryland	1.9	1.3	1.7	1.3	1.4
Massachusetts	1.1	1.4	1.2	1.6	1.1
New Hampshire	1.4	1.5	1.9	1.0	3.1
New Jersey	1.3	1.0	1.2	0.9	0.8
New York	1.9	1.8	1.3	1.4	1.6
North Carolina	2.5	1.7	1.2	1.4	1.4
Pennsylvania	1.0	1.0	1.2	0.9	1.0
Rhode Island	0.9	0.7	0.4	0.8	0.8
South Carolina	1.7	2.3	1.9	1.5	1.7
Vermont	1.8	1.8	2.6	3.9	2.2
Virginia	0.9	0.7	0.9	0.9	1.2
West Virginia	1.0	0.6	0.7	0.6	0.7
Atlantic Flyway Total ^b	1.54	1.35	1.31	1.22	1.37
Alabama	1.8	1.1	1.1	1.3	0.4
Arkansas	0.8	0.8	0.7	0.7	0.9
Illinois	2.3	2.0	1.4	1.2	1.7
Indiana	1.4	1.5	1.2	1.4	1.5
Iowa	2.8	1.8	1.9	1.8	2.3
Kentucky	2.0	1.2	1.1	0.6	1.5
Louisiana	2.3	1.2	1.3	0.8	1.1
Michigan	1.7	2.2	1.7	1.9	2.0
Minnesota	2.7	3.0	2.1	2.8	3.0
Mississippi	1.7	0.9	1.1	0.7	0.7
Missouri	2.0	1.4	1.6	0.9	1.3
Ohio	1.3	1.8	1.4	1.1	1.4
Tennessee	2.0	1.5	1.0	0.9	1.0
Wisconsin	2.7	2.8	1.7	2.3	2.6
Mississippi Flyway Total ^b	1.63	1.44	1.20	1.06	1.24

Table 8 (continued). Preliminary weighted age ratios of mallards in state harvests during the 2005-2009 hunting seasons as determined from Waterfowl Parts Collection Survey.

State and Flyway	Immatures per adult ^a				
	2005	2006	2007	2008	2009
Colorado	1.0	0.7	1.1	0.5	0.7
Kansas	1.1	0.8	1.0	0.6	0.6
Montana	0.9	1.0	1.2	0.8	0.8
Nebraska	1.1	1.0	1.0	0.7	0.8
New Mexico	1.9	0.8	1.7	1.2	1.3
North Dakota	2.6	2.4	2.1	1.3	2.3
Oklahoma	0.5	0.6	0.6	0.3	0.4
South Dakota	2.0	1.6	1.8	1.2	1.7
Texas	1.0	0.7	0.7	0.4	0.7
Wyoming	0.8	0.9	0.8	0.5	0.9
Central Flyway Total ^b	1.26	1.05	1.07	0.70	1.01
Arizona	1.7	1.6	1.4	1.1	1.1
California	3.0	2.5	1.3	1.5	1.9
Colorado	2.0	1.8	1.3	0.7	1.5
Idaho	1.6	1.5	1.2	1.1	1.0
Montana	0.9	1.0	0.9	0.9	1.0
Nevada	2.5	2.1	0.8	1.7	1.4
New Mexico	0.9	0.1	0.9	0.8	0.9
Oregon	1.9	2.1	1.5	1.4	1.6
Utah	2.2	1.5	1.1	1.1	1.7
Washington	1.6	1.5	1.1	0.9	1.1
Wyoming	2.9	2.4	3.3	2.5	2.5
Pacific Flyway Total ^b	1.98	1.82	1.23	1.19	1.42
Alaska	5.5	2.2	2.7	2.5	3.4
U.S. Total ^b	1.62	1.45	1.20	1.04	1.25

^a Ratio not shown if based on a sample of less than 20 wings

^b In estimating Flyway and U.S. ratios, the ratio for each state was weighed in proportion to the estimated harvest in that state as determined from the Harvest Information Program Waterfowl Harvest Survey.

Table 9. Preliminary weighted age ratios of ducks harvested during the 2005-2009 hunting seasons, by species and flyway.

Species and Flyway	Immatures per adult ^{a, b}				
	2005	2006	2007	2008	2009
Mallard					
Atlantic	1.54	1.35	1.31	1.22	1.37
Mississippi	1.63	1.44	1.20	1.06	1.24
Central	1.26	1.05	1.07	0.70	1.01
Pacific	1.98	1.82	1.23	1.19	1.42
U.S. Total	1.62	1.45	1.20	1.04	1.25
Black duck					
Atlantic	1.56	1.39	1.31	0.96	1.15
Mississippi	1.63	1.69	1.02	1.03	1.65
U.S. Total	1.58	1.47	1.22	0.98	1.27
Mottled duck					
Atlantic	1.30	1.67	1.17	0.81	1.07
Mississippi	2.63	1.82	1.44	0.76	1.19
Central	0.85	1.91	1.12	0.49	0.85
U.S. Total	1.60	1.80	1.34	0.73	1.11
Gadwall					
Atlantic	1.30	1.35	1.35	0.79	1.00
Mississippi	1.81	1.39	1.37	0.74	1.32
Central	1.17	0.94	1.29	0.70	1.16
Pacific	1.78	1.13	0.79	0.79	1.03
U.S. Total	1.52	1.19	1.25	0.74	1.22
American wigeon					
Atlantic	0.84	1.95	1.22	0.67	0.66
Mississippi	1.85	2.62	1.65	0.91	1.37
Central	0.80	0.83	0.82	0.94	0.71
Pacific	2.05	1.38	1.31	1.09	1.29
U.S. Total	1.48	1.40	1.26	1.02	1.10
Green-winged teal					
Atlantic	1.67	2.00	1.90	1.61	1.62
Mississippi	1.96	2.30	1.98	1.38	1.23
Central	1.37	1.97	1.83	1.68	1.59
Pacific	1.74	1.45	1.22	0.92	1.05
U.S. Total	1.72	1.89	1.66	1.26	1.25
Blue-winged/Cinnamon teal					
Atlantic	1.36	1.39	1.24	0.86	0.96
Mississippi	2.47	1.75	1.87	0.92	1.24
Central	2.28	2.10	2.85	1.59	1.42
Pacific	1.41	1.07	1.73	0.83	0.63
U.S. Total	2.09	1.74	2.03	1.03	1.22

Table 9 (continued). Preliminary weighted age ratios of ducks harvested during the 2005-2009 hunting seasons, by species and flyway.

Species and Flyway	Immatures per adult ^{a, b}				
	2005	2006	2007	2008	2009
Northern shoveler					
Atlantic	2.87	1.55	1.38	0.73	0.98
Mississippi	1.94	1.80	1.66	0.80	1.30
Central	1.84	2.02	2.04	1.35	2.12
Pacific	2.05	1.40	1.50	0.70	0.90
U.S. Total	1.99	1.62	1.64	0.80	1.27
Northern pintail					
Atlantic	2.07	1.66	1.70	0.95	0.66
Mississippi	1.29	1.28	1.43	0.96	1.30
Central	1.27	0.94	0.82	1.06	1.09
Pacific	1.38	0.98	1.03	0.54	0.98
U.S. Total	1.38	1.09	1.13	0.75	1.07
Wood duck					
Atlantic	1.27	0.99	0.97	1.21	1.31
Mississippi	1.32	1.61	1.28	1.77	2.05
Central	1.01	1.08	1.64	1.63	1.01
Pacific	2.41	2.06	1.12	1.23	2.08
U.S. Total	1.32	1.37	1.18	1.53	1.71
Redhead					
Atlantic	2.18	1.47	1.47	0.13	0.38
Mississippi	3.15	2.32	2.45	0.68	1.62
Central	2.63	2.13	2.21	0.56	1.56
Pacific	2.11	1.50	1.18	0.52	0.70
U.S. Total	2.70	2.07	2.09	0.56	1.32
Canvasback					
Atlantic	1.53	---	1.42	---	0.52
Mississippi	1.07	2.57	1.15	---	0.74
Central	3.02	1.71	1.50	0.75	1.34
Pacific	3.23	1.30	0.99	---	1.00
U.S. Total	1.67	1.91	1.14	0.84	0.90
Greater scaup					
Atlantic	0.87	1.81	0.78	0.37	0.63
Mississippi	2.58	1.80	1.26	0.79	1.24
Central	---	---	---	---	---
Pacific	1.06	0.56	1.23	1.22	1.19
U.S. Total	1.49	1.33	1.19	0.80	1.06

Table 9 (continued). Preliminary weighted age ratios of ducks harvested during the 2005-2009 hunting seasons, by species and flyway.

Species and Flyway	Immatures per adult ^{a, b}				
	2005	2006	2007	2008	2009
Lesser scaup					
Atlantic	0.50	0.85	0.77	0.46	0.52
Mississippi	0.57	1.79	1.05	0.63	0.53
Central	0.54	1.13	1.08	0.67	0.82
Pacific	2.11	1.77	1.36	2.57	1.37
U.S. Total	0.63	1.39	1.05	0.75	0.66
Ring-necked duck					
Atlantic	2.63	1.93	1.01	0.92	0.93
Mississippi	1.71	2.30	1.81	1.28	1.96
Central	0.93	0.95	0.96	0.86	1.00
Pacific	1.91	1.59	1.49	1.21	1.47
U.S. Total	1.71	1.86	1.38	1.10	1.37
Common goldeneye					
Atlantic	0.54	0.79	0.55	0.49	0.62
Mississippi	1.17	1.16	1.11	0.75	0.96
Central	1.50	1.15	0.51	0.56	0.47
Pacific	0.80	0.98	0.78	1.19	0.88
U.S. Total	0.88	1.02	0.81	0.81	0.84
Bufflehead					
Atlantic	0.88	0.97	0.81	0.67	0.47
Mississippi	0.76	1.07	1.26	0.85	1.17
Central	1.20	0.70	0.84	0.54	0.83
Pacific	1.13	0.78	1.06	0.71	0.87
U.S. Total	0.93	0.95	1.00	0.73	0.79
Ruddy duck					
Atlantic	3.08	3.62	2.15	0.81	1.90
Mississippi	4.11	4.40	3.61	0.89	1.22
Central	---	4.31	2.94	0.77	1.81
Pacific	1.80	1.26	1.49	0.42	1.21
U.S. Total	2.62	3.18	2.44	0.76	1.47
Hooded merganser					
Atlantic	1.00	0.78	0.88	0.61	0.99
Mississippi	1.56	0.93	0.87	1.34	1.18
Central	1.77	1.42	1.40	0.85	0.74
Pacific	1.24	1.00	0.87	2.22	1.09
U.S. Total	1.29	0.88	0.91	0.94	1.05

Table 9 (continued). Preliminary weighted age ratios of ducks harvested during the 2005-2009 hunting seasons, by species and flyway.

Species and Flyway	Immatures per adult ^{a, b}				
	2005	2006	2007	2008	2009
Common merganser					
Atlantic	1.39	1.04	0.74	0.52	1.04
Mississippi	---	---	---	0.85	---
Central	---	---	---	---	---
Pacific	0.92	0.93	1.04	0.68	0.56
U.S. Total	1.40	1.38	0.78	0.71	0.74
Red-breasted merganser					
Atlantic	0.91	0.96	1.11	1.30	0.74
Mississippi	---	---	---	---	0.73
U.S. Total	0.89	1.11	1.21	1.22	0.76
Long-tailed duck					
Atlantic	0.52	0.76	0.86	0.35	0.37
Mississippi	0.53	1.18	---	0.27	0.57
U.S. Total	0.54	0.87	0.79	0.35	0.43
Common eider					
Atlantic	0.10	0.06	0.19	0.27	0.23
U.S. Total	0.10	0.06	0.19	0.27	0.23
Black scoter					
Atlantic	0.34	1.37	0.44	0.26	0.41
U.S. Total	0.48	1.54	0.75	0.45	0.41
White-winged scoter					
Atlantic	0.65	2.21	0.82	0.74	0.15
Pacific	---	---	---	---	0.29
U.S. Total	1.25	2.95	1.56	0.64	0.43
Surf scoter					
Atlantic	0.25	0.36	0.43	0.31	0.21
Pacific	0.43	0.41	1.63	0.27	0.37
U.S. Total	0.34	0.38	0.58	0.36	0.29

^a Ratio not shown if based on a sample of less than 20 wings

^b In estimating Flyway and U.S. ratios, the ratio for each state was weighed in proportion to the estimated harvest in that state as determined from the Harvest Information Program Waterfowl Harvest Survey.

Table 10. Preliminary weighted sex ratios of mallards in state harvests during the 2005-2009 hunting seasons as determined from Waterfowl Parts Collection Survey.

State and Flyway	Males per female ^a				
	2005	2006	2007	2008	2009
Connecticut	2.2	2.2	2.0	2.4	2.0
Delaware	1.6	1.6	1.5	1.6	1.5
Florida	---	3.0	---	---	---
Georgia	0.7	2.2	---	2.6	2.4
Maine	1.5	1.7	1.7	1.8	1.4
Maryland	1.8	1.9	1.7	1.9	1.9
Massachusetts	2.1	1.7	1.9	1.9	1.5
New Hampshire	1.4	1.3	1.4	1.1	2.0
New Jersey	2.2	1.7	1.7	1.6	2.2
New York	1.9	1.9	1.7	1.9	1.7
North Carolina	2.6	2.2	2.5	2.1	2.0
Pennsylvania	2.3	2.1	2.0	2.1	2.1
Rhode Island	2.0	2.7	2.1	2.8	1.6
South Carolina	2.6	2.0	1.9	2.8	1.7
Vermont	1.6	1.7	1.8	1.8	1.0
Virginia	1.9	2.2	1.9	2.2	2.1
West Virginia	1.4	2.0	2.5	1.9	2.2
Atlantic Flyway Total ^b	2.00	1.96	1.87	2.00	1.86
Alabama	1.6	2.0	1.6	1.6	2.5
Arkansas	3.1	3.2	3.9	3.3	3.0
Illinois	2.5	2.1	2.3	2.1	2.2
Indiana	2.3	2.6	2.5	2.7	3.1
Iowa	2.3	2.3	2.4	1.9	1.7
Kentucky	2.7	2.8	3.0	2.2	2.6
Louisiana	1.5	1.6	2.4	2.2	2.8
Michigan	2.3	2.1	2.3	2.1	1.7
Minnesota	1.8	2.2	2.2	1.8	2.0
Mississippi	2.3	4.2	2.8	2.9	3.2
Missouri	2.5	2.8	2.7	3.4	3.3
Ohio	1.8	2.6	2.6	3.0	2.6
Tennessee	2.2	2.2	2.3	3.0	2.4
Wisconsin	1.8	2.0	2.1	2.2	2.0
Mississippi Flyway Total ^b	2.35	2.51	2.65	2.58	2.58

Table 10 (continued). Preliminary weighted sex ratios of mallards in state harvests during the 2005-2009 hunting seasons as determined from Waterfowl Parts Collection Survey.

State and Flyway	Males per female ^a				
	2005	2006	2007	2008	2009
Colorado	2.9	3.4	3.1	3.4	4.2
Kansas	5.6	3.8	4.8	7.1	5.8
Montana	3.8	4.7	2.9	3.8	4.1
Nebraska	4.6	4.0	4.1	3.8	4.9
New Mexico	2.1	3.5	2.2	2.9	3.3
North Dakota	2.5	3.2	3.4	3.8	2.5
Oklahoma	3.7	3.6	3.6	4.1	3.6
South Dakota	3.2	4.1	3.5	5.1	4.7
Texas	2.2	2.8	3.3	2.7	3.0
Wyoming	4.1	7.1	6.6	6.6	5.2
Central Flyway Total ^b	3.06	3.52	3.62	4.13	3.67
Arizona	1.4	1.9	1.9	1.7	1.4
California	2.5	2.1	2.3	2.3	2.3
Colorado	2.4	3.6	2.3	2.4	2.2
Idaho	2.8	2.7	3.3	3.2	2.5
Montana	3.6	3.5	3.5	3.1	2.4
Nevada	1.8	2.8	1.8	1.7	1.3
New Mexico	2.1	2.3	4.1	4.1	2.2
Oregon	1.8	1.9	1.7	2.1	1.9
Utah	2.2	2.2	2.4	1.9	2.6
Washington	2.0	2.1	2.6	2.8	2.3
Wyoming	2.2	2.9	1.4	1.7	1.7
Pacific Flyway Total ^b	2.30	2.19	2.33	2.44	2.23
Alaska	1.1	1.5	1.5	1.6	1.3
U.S. Total ^b	2.40	2.47	2.60	2.63	2.54

^a Ratio not shown if based on a sample of less than 20 wings

^b In estimating Flyway and U.S. ratios, the ratio for each state was weighed in proportion to the estimated harvest in that state as determined from the Harvest Information Program Waterfowl Harvest Survey.

Table 11. Preliminary weighted sex ratios of ducks harvested during the 2005-2009 hunting seasons, by species and flyway.

Species and Flyway	Males per female ^a				
	2005	2006	2007	2008	2009
Mallard					
Atlantic	2.00	1.96	1.87	2.00	1.86
Mississippi	2.35	2.51	2.65	2.58	2.58
Central	3.06	3.52	3.62	4.13	3.67
Pacific	2.30	2.19	2.33	2.44	2.23
U.S. Total	2.40	2.47	2.60	2.63	2.54
Black duck					
Atlantic	1.23	1.17	1.08	1.08	1.00
Mississippi	1.31	0.69	0.80	1.21	0.87
U.S. Total	1.25	1.01	0.99	1.11	0.96
Mottled duck					
Atlantic	0.81	0.92	0.99	1.13	0.98
Mississippi	0.71	0.94	0.62	0.77	1.05
Central	1.57	1.13	0.94	1.50	1.27
U.S. Total	0.90	0.96	0.71	0.89	1.06
Gadwall					
Atlantic	1.38	1.52	1.81	1.96	1.83
Mississippi	1.73	1.79	1.93	1.84	1.79
Central	1.54	1.78	1.76	1.83	1.66
Pacific	1.50	1.54	1.64	1.91	1.76
U.S. Total	1.62	1.74	1.84	1.85	1.75
American wigeon					
Atlantic	1.60	1.56	2.12	1.95	2.15
Mississippi	1.65	1.45	1.36	1.32	1.40
Central	1.73	1.92	1.80	1.69	2.02
Pacific	1.50	1.48	1.48	1.74	1.64
U.S. Total	1.58	1.57	1.52	1.64	1.70
Green-winged teal					
Atlantic	1.34	1.26	1.12	1.45	1.31
Mississippi	2.12	1.88	1.95	1.92	1.71
Central	1.93	1.82	2.07	1.65	1.73
Pacific	1.59	1.59	1.53	1.74	1.81
U.S. Total	1.79	1.69	1.73	1.76	1.70
Blue-winged/Cinnamon teal					
Atlantic	1.32	1.31	1.28	1.51	1.48
Mississippi	1.16	1.33	1.39	1.43	1.79
Central	1.41	1.29	1.12	1.19	1.46
Pacific	1.21	1.27	1.29	1.71	1.19
U.S. Total	1.26	1.31	1.29	1.39	1.64

Table 11 (continued). Preliminary weighted sex ratios of ducks harvested during the 2005-2009 hunting seasons, by species and flyway.

Species and Flyway	Males per female ^a				
	2005	2006	2007	2008	2009
Northern shoveler					
Atlantic	1.51	1.13	1.47	1.27	1.26
Mississippi	1.50	1.78	1.82	1.88	1.83
Central	1.44	1.39	1.71	1.54	1.42
Pacific	1.70	1.50	1.44	1.45	1.89
U.S. Total	1.54	1.56	1.61	1.63	1.72
Northern pintail					
Atlantic	1.59	1.29	2.10	2.07	1.25
Mississippi	1.98	2.52	1.98	2.32	3.04
Central	2.60	2.34	2.41	2.49	2.34
Pacific	2.54	2.79	2.36	2.76	2.72
U.S. Total	2.31	2.48	2.20	2.51	2.59
Wood duck					
Atlantic	1.88	2.05	1.97	2.06	2.15
Mississippi	1.88	1.76	1.77	1.68	1.83
Central	2.17	1.50	2.11	1.90	3.15
Pacific	1.75	1.51	1.72	1.86	1.61
U.S. Total	1.89	1.81	1.85	1.82	1.96
Redhead					
Atlantic	1.10	1.23	1.96	2.22	1.60
Mississippi	1.61	1.50	1.08	1.10	1.24
Central	1.43	1.26	1.55	1.85	1.11
Pacific	1.47	1.77	1.81	1.45	1.26
U.S. Total	1.47	1.42	1.39	1.49	1.20
Canvasback					
Atlantic	1.10	---	0.74	---	1.59
Mississippi	1.34	1.89	2.05	---	1.09
Central	1.46	1.63	1.80	2.60	1.10
Pacific	0.88	1.02	1.17	---	1.50
U.S. Total	1.27	1.52	1.54	2.28	1.24
Greater scaup					
Atlantic	1.13	1.13	1.79	1.95	1.38
Mississippi	1.13	1.06	0.96	1.23	1.02
Central	---	---	---	---	---
Pacific	2.42	1.22	1.90	2.26	2.06
U.S. Total	1.32	1.10	1.51	1.58	1.38

Table 11 (continued). Preliminary weighted sex ratios of ducks harvested during the 2005-2009 hunting seasons, by species and flyway.

Species and Flyway	Males per female ^a				
	2005	2006	2007	2008	2009
Lesser scaup					
Atlantic	2.57	2.14	2.53	1.81	2.57
Mississippi	2.56	1.53	1.93	2.18	2.08
Central	2.80	1.45	1.53	1.82	1.93
Pacific	1.54	1.83	1.55	1.53	1.80
U.S. Total	2.43	1.65	1.85	1.95	2.08
Ring-necked duck					
Atlantic	1.58	1.62	1.89	1.54	1.65
Mississippi	1.77	1.71	1.94	2.18	1.84
Central	2.18	2.27	2.79	2.47	2.36
Pacific	1.79	1.61	1.83	1.53	1.48
U.S. Total	1.78	1.74	2.02	1.94	1.82
Common goldeneye					
Atlantic	2.05	1.69	1.38	1.28	1.96
Mississippi	1.23	1.61	1.32	1.64	2.01
Central	2.13	2.31	1.73	1.36	2.67
Pacific	2.47	1.37	1.29	1.42	1.77
U.S. Total	1.80	1.53	1.36	1.46	1.91
Bufflehead					
Atlantic	1.53	1.66	1.65	1.96	2.38
Mississippi	1.35	2.17	1.79	1.39	1.45
Central	1.36	1.88	1.42	1.95	1.91
Pacific	1.69	1.84	1.63	1.10	1.81
U.S. Total	1.48	1.90	1.66	1.53	1.82
Hooded merganser					
Atlantic	3.14	1.59	2.97	2.07	2.30
Mississippi	4.49	3.04	2.86	1.83	4.77
Central	---	---	---	4.04	2.14
Pacific	---	---	0.87	---	1.37
U.S. Total	3.24	2.07	2.55	2.12	2.88
Common merganser					
Atlantic	0.78	0.63	1.13	1.05	0.87
Mississippi	---	---	---	0.26	---
Central	---	---	---	---	---
Pacific	2.00	1.06	0.92	0.82	1.19
U.S. Total	1.46	0.83	1.06	0.75	0.88

^a Ratio not shown if based on a sample of less than 20 wings

^b In estimating Flyway and U.S. ratios, the ratio for each state was weighed in proportion to the estimated harvest in that state as determined from the Harvest Information Program Waterfowl Harvest Survey.

Table 12. Preliminary weighted age ratios of geese harvested during the 2005-2009 hunting seasons, by species and flyway.

Species and Flyway	Immatures per adult ^{a, b}				
	2005	2006	2007	2008	2009
Canada goose					
Atlantic	0.62	0.53	0.40	0.59	0.37
Mississippi	0.52	0.54	0.50	0.51	0.47
Central	0.54	0.47	0.40	0.51	0.57
Pacific	0.47	0.45	0.44	0.38	0.50
U.S. Total	0.54	0.51	0.44	0.52	0.46
Snow goose					
Atlantic	0.81	0.53	0.56	1.46	0.26
Mississippi	0.39	0.75	0.34	0.29	0.20
Central	0.41	0.49	0.20	0.54	0.14
Pacific	1.36	0.70	0.64	0.17	0.67
U.S. Total	0.52	0.60	0.33	0.46	0.25
Blue goose					
Mississippi	0.48	0.62	0.35	0.23	0.50
Central	0.81	0.53	0.43	0.64	0.22
U.S. Total	0.59	0.58	0.39	0.41	0.35
Ross' goose					
Mississippi	---	---	---	2.07	---
Central	1.55	1.37	0.91	1.57	0.70
Pacific	0.91	0.90	0.22	0.39	0.10
U.S. Total	1.60	1.79	0.64	1.26	0.54
Greater white-fronted goose					
Mississippi	0.58	0.91	0.31	0.35	0.49
Central	0.81	1.16	0.70	0.50	0.61
Pacific	1.16	0.86	0.68	0.72	1.42
U.S. Total	0.77	0.97	0.48	0.50	0.72
Brant					
Atlantic	0.15	0.27	0.67	0.68	0.22
Pacific	1.16	0.39	1.01	0.50	1.35
U.S. Total	0.20	0.27	0.68	0.70	0.26

^a Ratio not shown if based on a sample of less than 20 wings

^b In estimating Flyway and U.S. ratios, the ratio for each state was weighed in proportion to the estimated harvest in that state as determined from the Harvest Information Program Waterfowl Harvest Survey.

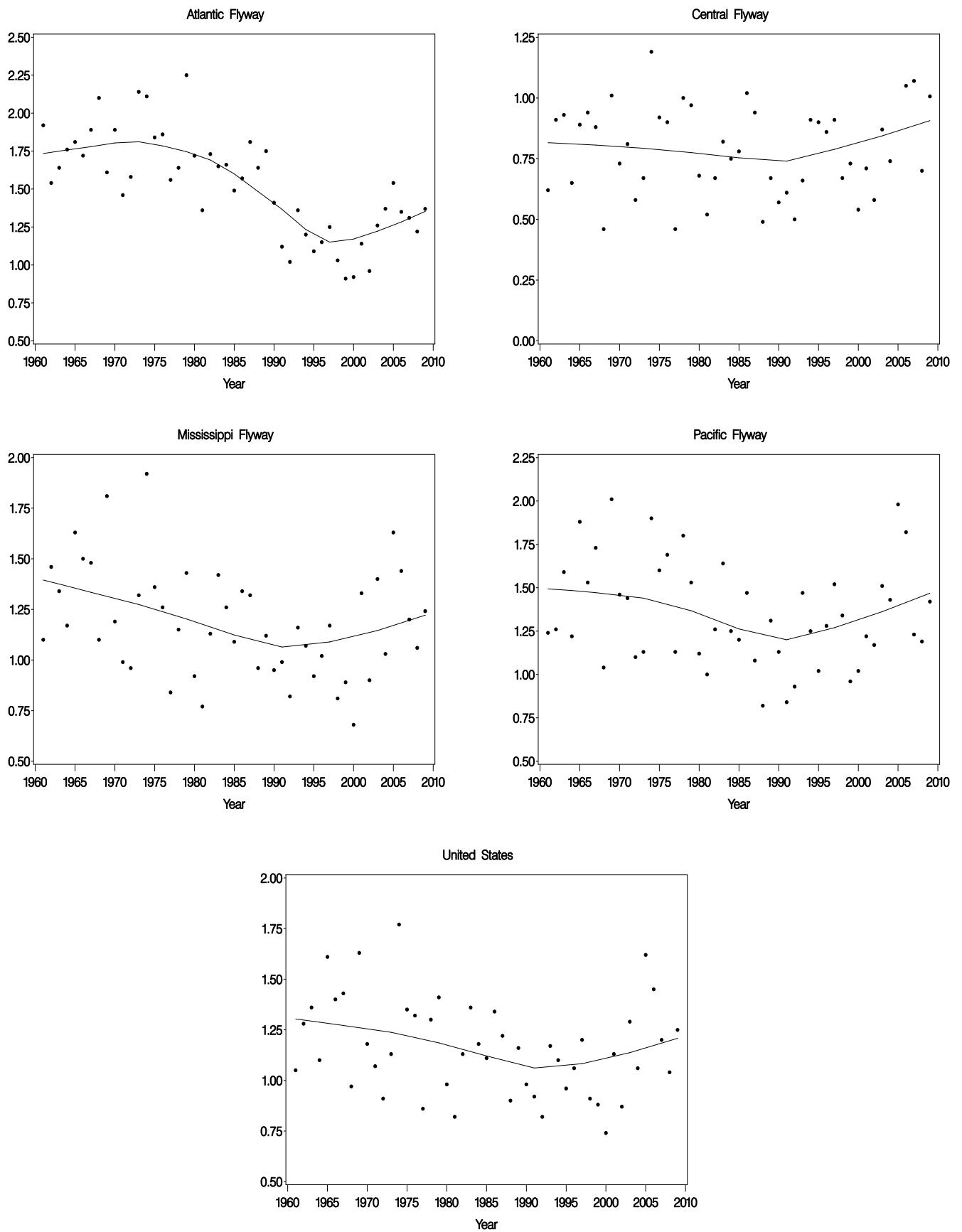


Figure 3. Age ratios of mallards harvested in the United States, 1961-2009.

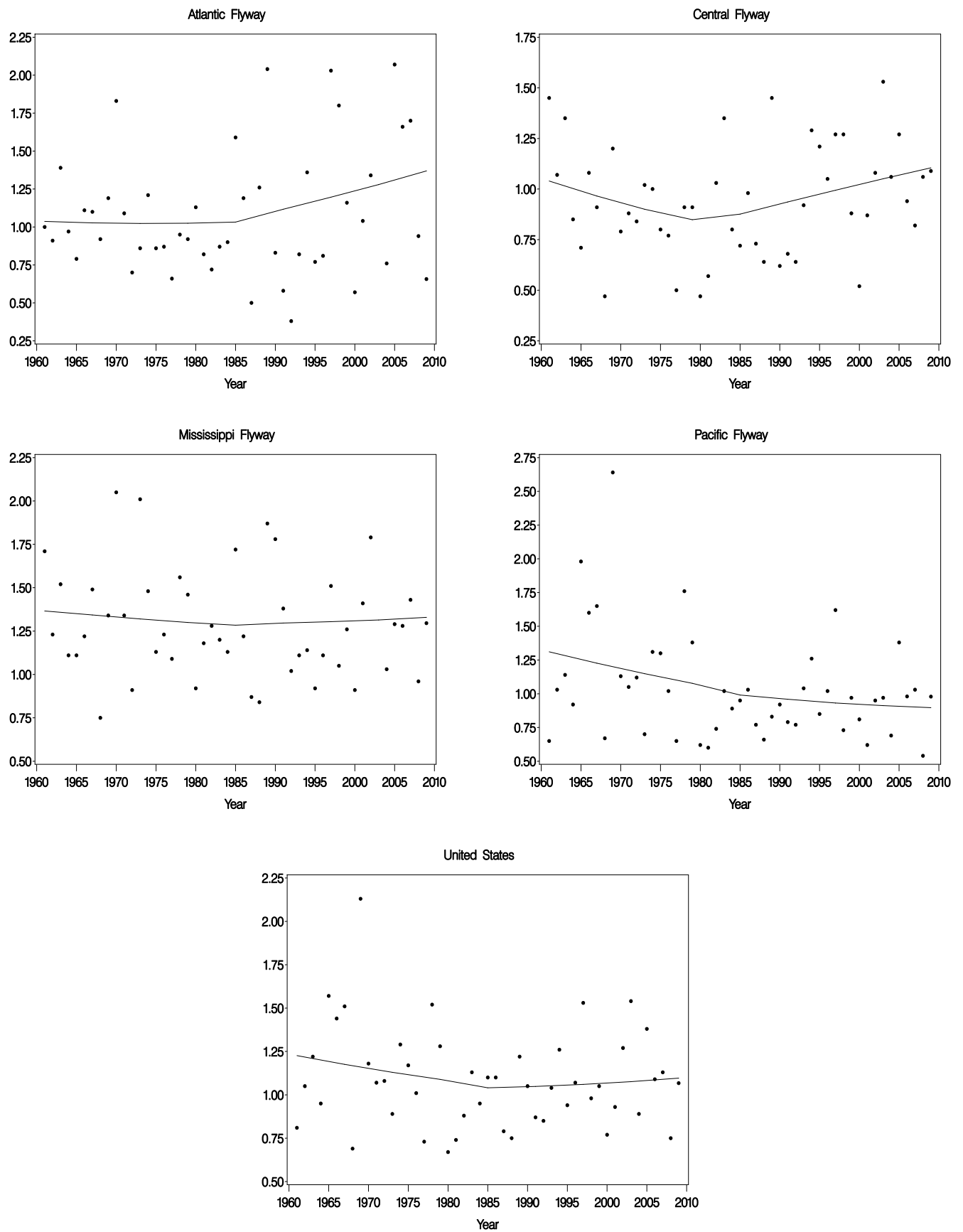


Figure 4. Age ratios of northern pintails harvested in the United States, 1961-2009.

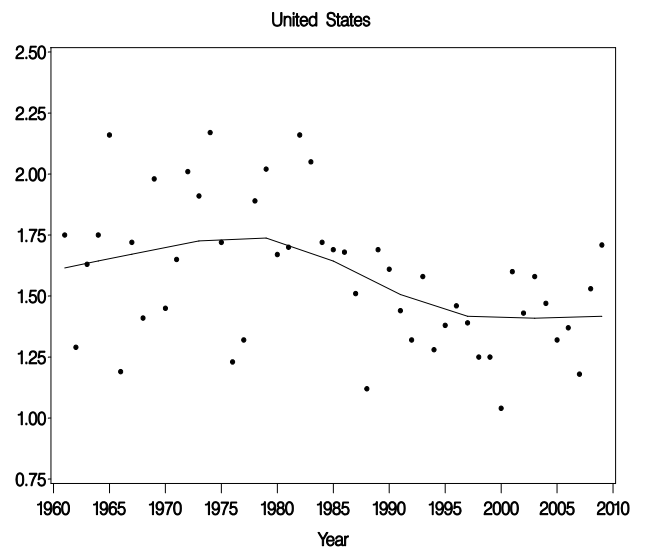
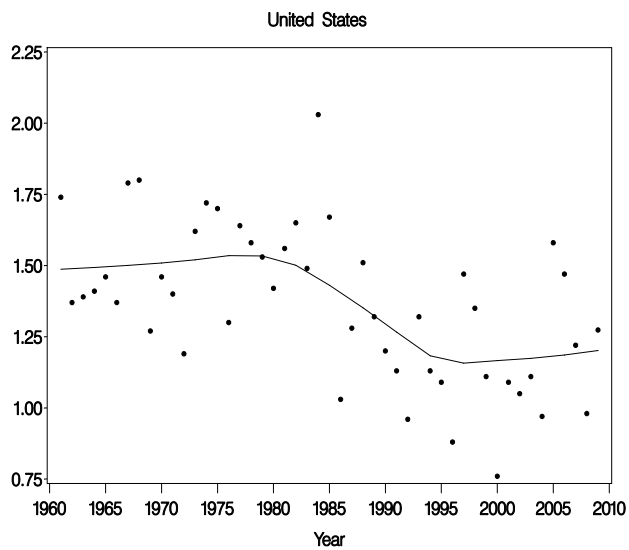
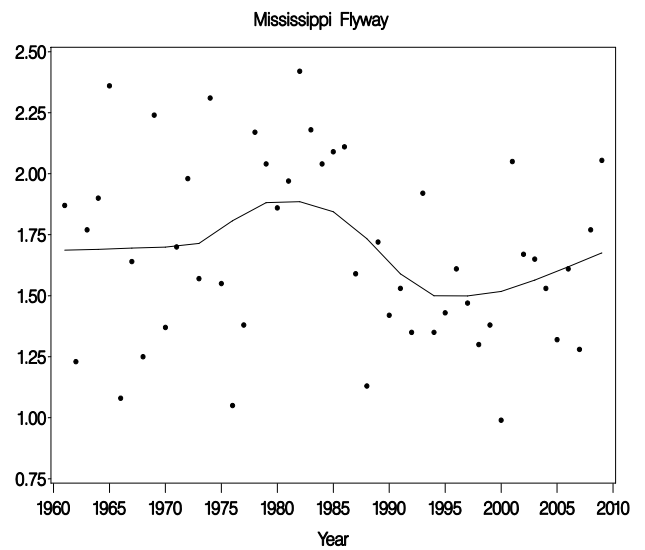
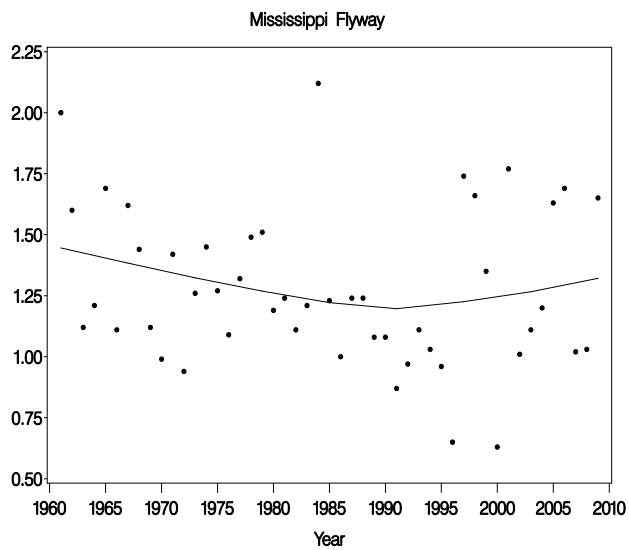
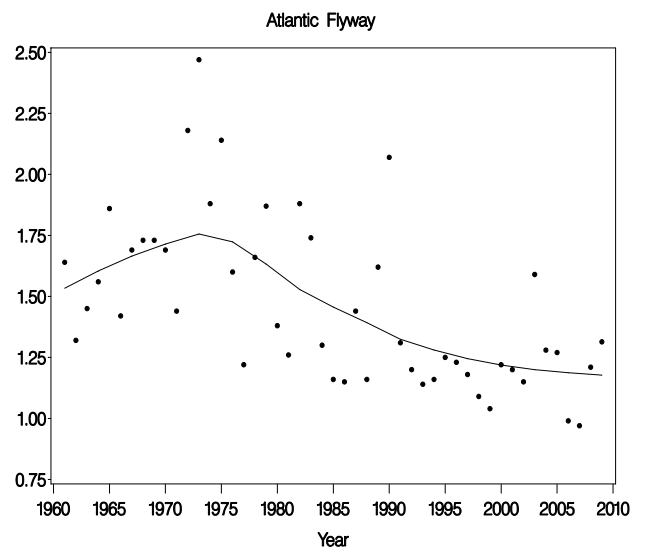
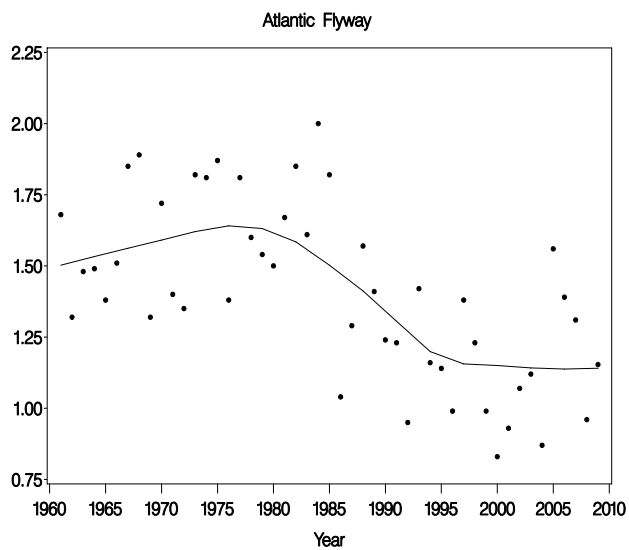


Figure 5. Age ratios of American black ducks (left column) and wood ducks (right column) harvested in the United States, 1961-2009.

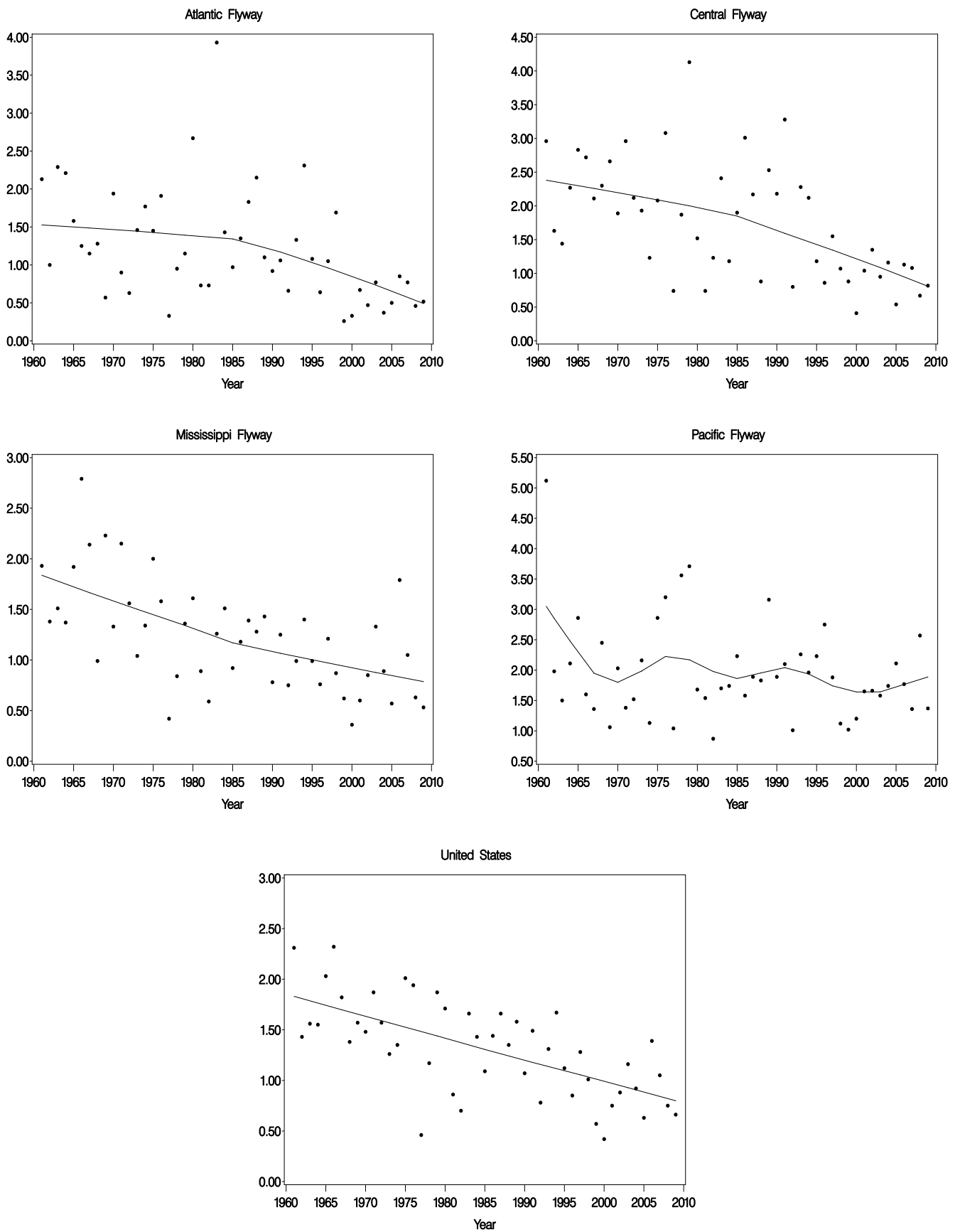


Figure 6. Age ratios of lesser scaup harvested in the United States, 1961-2009.

Table 13. Preliminary estimates of mourning dove harvest and hunter activity during the 2008 and 2009 hunting seasons¹.

State and Management Unit	Mourning Dove Harvest		Active Hunters ²		Mourning Dove Days Afield		Seasonal Harvest Per Hunter	
	2008	2009	2008	2009	2008	2009	2008	2009
Alabama	877,400 ± 15%	1,113,500 ± 13%	42,300 ± 9%	61,800 ± 9%	113,500 ± 12%	152,200 ± 12%	20.7 ± 17%	18.0 ± 16%
Delaware	33,800 ± 35%	36,300 ± 36%	2,000 ± 29%	1,800 ± 20%	5,700 ± 34%	5,700 ± 28%	16.7 ± 45%	19.7 ± 42%
Florida	516,500 ± 24%	292,500 ± 21%	20,300 ± 16%	18,100 ± 19%	94,800 ± 23%	53,900 ± 19%	25.4 ± 29%	16.1 ± 28%
Georgia	718,700 ± 22%	857,200 ± 22%	36,100 ± 15%	48,500 ± 18%	102,300 ± 19%	119,000 ± 19%	19.9 ± 27%	17.7 ± 28%
Illinois	683,100 ± 21%	659,600 ± 27%	31,600 ± 12%	28,400 ± 13%	97,000 ± 18%	102,900 ± 23%	21.6 ± 24%	23.2 ± 30%
Indiana	255,700 ± 16%	243,200 ± 17%	14,300 ± 17%	13,200 ± 16%	38,500 ± 17%	40,300 ± 15%	17.9 ± 23%	18.4 ± 23%
Kentucky	369,400 ± 18%	451,300 ± 34%	18,700 ± 21%	21,400 ± 33%	43,700 ± 17%	62,800 ± 34%	19.8 ± 28%	21.1 ± 48%
Louisiana	188,200 ± 38%	482,700 ± 51%	17,200 ± 26%	25,000 ± 24%	38,400 ± 31%	77,700 ± 32%	11.0 ± 46%	19.3 ± 56%
Maryland	151,800 ± 26%	174,900 ± 38%	9,300 ± 19%	9,100 ± 21%	28,400 ± 25%	26,900 ± 27%	16.3 ± 32%	19.2 ± 43%
Mississippi	452,400 ± 20%	361,500 ± 19%	17,300 ± 11%	19,800 ± 13%	53,800 ± 18%	47,400 ± 18%	26.1 ± 23%	18.3 ± 23%
North Carolina	757,900 ± 18%	581,100 ± 21%	43,800 ± 15%	40,300 ± 18%	112,900 ± 18%	99,800 ± 25%	17.3 ± 24%	14.4 ± 28%
Ohio	205,900 ± 28%	295,800 ± 27%	13,500 ± 21%	16,700 ± 19%	61,600 ± 32%	75,500 ± 27%	15.3 ± 35%	17.7 ± 33%
Pennsylvania	340,900 ± 19%	188,000 ± 30%	30,700 ± 19%	18,100 ± 23%	129,900 ± 24%	71,000 ± 38%	11.1 ± 26%	10.4 ± 37%
Rhode Island	4,400 ± 108%	<50 ± 191%	300 ± 61%	100 ± 96%	2,000 ± 78%	100 ± 104%	13.4 ± 124%	0.3 ± 214%
South Carolina	844,500 ± 17%	885,700 ± 21%	39,900 ± 12%	42,600 ± 13%	140,900 ± 19%	125,900 ± 19%	21.2 ± 21%	20.8 ± 25%
Tennessee	798,200 ± 38%	619,800 ± 22%	37,500 ± 16%	41,100 ± 16%	103,000 ± 30%	90,800 ± 19%	21.3 ± 41%	15.1 ± 27%
Virginia	333,600 ± 27%	305,500 ± 12%	17,300 ± 20%	20,900 ± 13%	59,000 ± 23%	57,500 ± 24%	19.3 ± 33%	14.6 ± 17%
West Virginia	16,900 ± 29%	15,600 ± 27%	1,400 ± 20%	1,300 ± 24%	3,700 ± 28%	2,700 ± 29%	12.0 ± 35%	11.9 ± 36%
Wisconsin	122,300 ± 37%	74,900 ± 36%	10,500 ± 26%	9,500 ± 28%	40,600 ± 31%	33,700 ± 32%	11.6 ± 45%	7.9 ± 46%
Eastern Unit Total	7,671,800 ± 6%	7,639,200 ± 7%	404,000	437,600	1,269,500 ± 6%	1,245,700 ± 6%		
Arkansas	422,000 ± 23%	353,500 ± 21%	23,300 ± 18%	22,400 ± 19%	76,600 ± 33%	53,800 ± 26%	18.1 ± 29%	15.8 ± 28%
Colorado	288,400 ± 19%	242,400 ± 17%	23,200 ± 12%	20,300 ± 13%	60,400 ± 18%	45,400 ± 18%	12.4 ± 23%	11.9 ± 22%
Kansas	443,700 ± 15%	572,600 ± 16%	26,800 ± 11%	29,400 ± 10%	78,500 ± 15%	97,000 ± 14%	16.6 ± 19%	19.5 ± 19%
Minnesota	83,500 ± 48%	61,500 ± 67%	11,300 ± 28%	6,800 ± 36%	34,900 ± 42%	24,100 ± 64%	7.4 ± 55%	9.1 ± 77%
Missouri	467,800 ± 16%	294,700 ± 26%	34,300 ± 9%	21,500 ± 16%	93,400 ± 14%	58,700 ± 21%	13.7 ± 19%	13.7 ± 30%
Montana	18,400 ± 51%	12,700 ± 32%	2,100 ± 45%	2,500 ± 32%	3,700 ± 44%	6,400 ± 46%	8.8 ± 68%	5.1 ± 45%
Nebraska	238,600 ± 49%	277,600 ± 17%	13,600 ± 33%	16,000 ± 12%	48,800 ± 52%	51,800 ± 15%	17.6 ± 59%	17.4 ± 21%
New Mexico	138,100 ± 30%	170,200 ± 26%	6,300 ± 18%	7,800 ± 16%	26,200 ± 29%	35,700 ± 26%	22.0 ± 35%	21.9 ± 30%
North Dakota	26,400 ± 31%	40,000 ± 31%	2,700 ± 30%	2,800 ± 28%	9,200 ± 44%	10,800 ± 50%	9.6 ± 43%	14.3 ± 42%
Oklahoma	361,200 ± 18%	378,400 ± 17%	19,300 ± 12%	18,600 ± 12%	57,800 ± 17%	55,500 ± 15%	18.7 ± 22%	20.4 ± 21%
South Dakota	152,100 ± 30%	105,400 ± 24%	7,300 ± 18%	6,500 ± 19%	27,500 ± 34%	21,700 ± 23%	20.9 ± 35%	16.2 ± 31%
Texas	4,849,600 ± 14%	4,945,100 ± 18%	271,300 ± 10%	236,600 ± 10%	974,100 ± 13%	846,200 ± 12%	17.9 ± 18%	20.9 ± 21%
Wyoming	30,100 ± 36%	20,600 ± 31%	2,500 ± 25%	2,300 ± 27%	5,900 ± 33%	5,800 ± 31%	11.9 ± 44%	8.8 ± 41%
Central Unit Total	7,520,000 ± 10%	7,474,600 ± 12%	443,900	393,400	1,497,000 ± 9%	1,312,700 ± 8%		
Arizona	726,600 ± 12%	784,400 ± 12%	34,000 ± 10%	37,200 ± 8%	118,000 ± 13%	130,600 ± 11%	21.4 ± 16%	21.1 ± 14%
California	1,113,700 ± 12%	1,069,700 ± 13%	72,700 ± 7%	67,200 ± 8%	207,200 ± 10%	197,400 ± 12%	15.3 ± 14%	15.9 ± 15%
Idaho	127,400 ± 24%	143,300 ± 38%	11,800 ± 19%	10,600 ± 28%	33,600 ± 25%	27,200 ± 30%	10.8 ± 30%	13.5 ± 48%
Nevada	45,000 ± 25%	41,500 ± 31%	4,900 ± 15%	4,600 ± 18%	12,200 ± 26%	11,600 ± 31%	9.1 ± 29%	9.0 ± 36%
Oregon	45,500 ± 35%	38,600 ± 25%	5,800 ± 22%	4,300 ± 25%	14,600 ± 28%	16,400 ± 32%	7.9 ± 42%	9.0 ± 35%
Utah	74,100 ± 38%	122,800 ± 26%	9,600 ± 28%	15,200 ± 17%	22,100 ± 33%	34,600 ± 19%	7.7 ± 48%	8.1 ± 31%
Washington	78,500 ± 31%	40,700 ± 50%	7,300 ± 23%	4,200 ± 36%	18,500 ± 31%	11,100 ± 40%	10.8 ± 38%	9.7 ± 61%
Western Unit Total	2,210,700 ± 8%	2,241,000 ± 8%	146,100	143,400	426,200 ± 7%	428,900 ± 7%		
U.S. Total	17,402,400 ± 5%	17,354,800 ± 6%	994,100	974,400	3,192,700 ± 5%	2,987,300 ± 4%		

¹ Variance estimates presented as 95% confidence interval as percent of the point estimate.² Hunter number estimates at the management unit and national levels may be biased high, because the HIP sample frames are state specific; therefore hunters are counted more than once if they hunt in >1 state. Variance inestimable.

Table 14. Preliminary estimates of white-winged dove harvest and hunter activity during the 2008 and 2009 hunting seasons¹.

State and Management Unit	White-winged Dove Harvest		Active Hunters ²		White-winged Dove Days Afield		Seasonal Harvest Per Hunter	
	2008	2009	2008	2009	2008	2009	2008	2009
Alabama	8,500 ± 58%	9,300 ± 65%	2,700 ± 42%	2,200 ± 57%	6,400 ± 51%	4,000 ± 57%	3.1 ± 71%	4.2 ± 87%
Florida	46,000 ± 48%	24,300 ± 47%	4,200 ± 36%	2,800 ± 46%	19,600 ± 45%	7,700 ± 42%	10.8 ± 60%	8.5 ± 66%
Georgia	---	15,000 ± 106%	---	1,500 ± 97%	---	1,900 ± 103%	---	10.0 ± 144%
Illinois	---	0	---	500 ± 129%	---	700 ± 121%	---	0
Indiana	---	<50 ± 191%	---	<50 ± 191%	---	<50 ± 191%	---	1.0 ± 270%
Kentucky	1,600 ± 98%	1,100 ± 150%	700 ± 85%	200 ± 111%	1,000 ± 93%	300 ± 118%	2.4 ± 130%	5.3 ± 187%
Louisiana	1,800 ± 99%	33,000 ± 76%	1,600 ± 89%	5,400 ± 56%	3,200 ± 109%	23,300 ± 78%	1.1 ± 133%	6.2 ± 94%
Maryland	---	2,500 ± 186%	---	200 ± 166%	---	300 ± 142%	---	10.5 ± 250%
Mississippi	2,200 ± 81%	1,300 ± 105%	700 ± 73%	1,000 ± 70%	2,100 ± 79%	1,600 ± 77%	3.0 ± 109%	1.3 ± 126%
Ohio	---	1,400 ± 195%	---	100 ± 195%	---	500 ± 195%	---	12.0 ± 276%
Pennsylvania	---	200 ± 194%	---	100 ± 194%	---	100 ± 194%	---	4.0 ± 275%
Eastern Unit Total	60,000 ± 38%	88,200 ± 37%	10,000	14,100	32,200 ± 31%	40,400 ± 46%		
Arkansas	---	15,900 ± 88%	---	2,100 ± 84%	---	10,800 ± 104%	---	7.7 ± 122%
Colorado	4,800 ± 47%	4,800 ± 65%	3,300 ± 38%	2,500 ± 44%	9,100 ± 46%	6,600 ± 69%	1.5 ± 60%	1.9 ± 78%
Kansas	1,300 ± 88%	4,100 ± 103%	1,300 ± 76%	1,800 ± 57%	3,400 ± 71%	3,900 ± 67%	1.0 ± 116%	2.3 ± 118%
Missouri	2,700 ± 93%	3,300 ± 93%	1,900 ± 56%	1,900 ± 67%	4,300 ± 61%	3,000 ± 70%	1.4 ± 109%	1.7 ± 115%
Nebraska	200 ± 139%	3,800 ± 90%	100 ± 139%	800 ± 71%	300 ± 139%	3,300 ± 68%	2.0 ± 196%	4.8 ± 115%
New Mexico	49,100 ± 44%	64,500 ± 52%	3,200 ± 29%	3,700 ± 26%	13,700 ± 35%	20,400 ± 37%	15.5 ± 53%	17.6 ± 58%
Oklahoma	5,200 ± 74%	5,500 ± 54%	2,100 ± 46%	1,800 ± 47%	8,500 ± 72%	4,800 ± 38%	2.5 ± 87%	3.1 ± 72%
Texas	1,314,900 ± 19%	1,259,300 ± 19%	134,900 ± 16%	109,700 ± 16%	468,200 ± 18%	439,000 ± 20%	9.7 ± 25%	11.5 ± 24%
Central Unit Total	1,378,200 ± 18%	1,361,300 ± 17%	146,800	124,200	507,500 ± 16%	491,700 ± 19%		
Arizona	95,300 ± 25%	124,500 ± 19%	19,800 ± 16%	20,400 ± 15%	82,400 ± 59%	68,200 ± 19%	4.8 ± 30%	6.1 ± 24%
California	83,300 ± 33%	66,100 ± 32%	15,100 ± 21%	13,900 ± 22%	40,000 ± 25%	35,300 ± 24%	5.5 ± 39%	4.8 ± 39%
Nevada	<50 ± 106%	600 ± 111%	400 ± 98%	500 ± 79%	500 ± 85%	1,000 ± 68%	0	1.3 ± 136%
Utah	1,200 ± 110%	1,500 ± 76%	600 ± 129%	700 ± 82%	1,600 ± 111%	1,300 ± 60%	2.1 ± 169%	2.1 ± 111%
Western Unit Total	179,900 ± 20%	192,700 ± 16%	36,000	35,400	124,500 ± 40%	105,800 ± 15%		
U.S. Total	1,618,100 ± 16%	1,642,200 ± 15%	192,700	173,700	664,100 ± 15%	637,900 ± 15%		

¹ Variance estimates presented as 95% confidence interval as percent of the point estimate.

² Hunter number estimates at the management unit and national levels may be biased high, because the HIP sample frames are state specific; therefore hunters are counted more than once if they hunt in >1 state. Variance inestimable.

Table 15. Preliminary estimates of band-tailed pigeon harvest and hunter activity during the 2008 and 2009 hunting seasons¹.

State and Management Unit	Band-tailed Pigeon Harvest		Active Hunters ²		Band-tailed Pigeon Days Afield		Seasonal Harvest Per Hunter	
	2008	2009	2008	2009	2008	2009	2008	2009
Arizona	1,600 ± 122%	2,300 ± 76%	1,300 ± 55%	1,300 ± 52%	3,300 ± 66%	4,100 ± 68%	1.3 ± 133%	1.8 ± 92%
Colorado	2,500 ± 83%	1,400 ± 100%	2,300 ± 40%	2,400 ± 51%	6,100 ± 45%	6,100 ± 70%	1.1 ± 92%	0.6 ± 112%
New Mexico	600 ± 95%	1,300 ± 79%	600 ± 52%	500 ± 54%	2,100 ± 76%	2,300 ± 72%	1.1 ± 108%	2.5 ± 96%
Utah	0	0	300 ± 143%	200 ± 138%	700 ± 139%	600 ± 166%	0	0
Four Corners Total	4,700 ± 62%	5,000 ± 49%	4,500	4,400	12,200 ± 33%	13,200 ± 42%		
California	27,500 ± 35%	19,300 ± 29%	10,500 ± 24%	8,200 ± 25%	29,300 ± 34%	20,100 ± 29%	2.6 ± 42%	2.3 ± 39%
Oregon	500 ± 18%	1,900 ± 25%	200 ± 8%	600 ± 12%	500 ± 13%	1,800 ± 19%	3.2 ± 20%	3.5 ± 28%
Washington	2,100 ± 87%	1,400 ± 132%	600 ± 61%	1,000 ± 68%	1,500 ± 70%	2,500 ± 85%	3.2 ± 106%	1.5 ± 149%
Pacific Coast Total	30,200 ± 32%	22,600 ± 27%	11,300	9,700	31,300 ± 32%	24,400 ± 25%		
U.S. Total	34,900 ± 29%	27,600 ± 23%	15,800	14,100	43,500 ± 25%	37,600 ± 22%		

¹ Variance estimates presented as 95% confidence interval as percent of the point estimate.

² Hunter number estimates at the management unit and national levels may be biased high, because the HIP sample frames are state specific; therefore hunters are counted more than once if they hunt in >1 state. Variance inestimable.

Table 16. Preliminary estimates of woodcock harvest and hunter activity during the 2008 and 2009 hunting seasons¹.

State and Management Unit	Woodcock Harvest		Active Hunters ²		Woodcock Days Afield		Seasonal Harvest Per Hunter	
	2008	2009	2008	2009	2008	2009	2008	2009
Connecticut	1,600 ± 88%	1,000 ± 37%	900 ± 36%	900 ± 26%	3,600 ± 49%	5,100 ± 31%	1.8 ± 95%	1.0 ± 45%
Delaware	400 ± 73%	200 ± 138%	400 ± 113%	300 ± 84%	1,300 ± 137%	700 ± 92%	1.2 ± 135%	0.7 ± 161%
Florida	7,900 ± 135%	8,700 ± 105%	2,400 ± 125%	3,000 ± 62%	14,600 ± 158%	14,800 ± 75%	3.4 ± 184%	2.9 ± 122%
Georgia	10,000 ± 171%	0	3,100 ± 129%	3,600 ± 196%	7,000 ± 129%	10,800 ± 196%	3.2 ± 214%	0
Maine	18,800 ± 49%	8,300 ± 61%	5,400 ± 27%	3,100 ± 52%	26,100 ± 33%	22,100 ± 76%	3.5 ± 55%	2.7 ± 80%
Maryland	2,400 ± 100%	600 ± 47%	1,800 ± 81%	800 ± 117%	9,300 ± 119%	1,900 ± 108%	1.4 ± 129%	0.8 ± 126%
Massachusetts	2,300 ± 36%	2,400 ± 34%	1,200 ± 26%	1,100 ± 29%	5,600 ± 32%	6,500 ± 40%	2.0 ± 44%	2.3 ± 45%
New Hampshire	5,600 ± 24%	8,400 ± 32%	1,600 ± 30%	3,200 ± 42%	9,400 ± 30%	17,000 ± 33%	3.4 ± 38%	2.7 ± 53%
New Jersey	1,600 ± 73%	3,400 ± 67%	500 ± 78%	900 ± 87%	2,100 ± 71%	3,900 ± 63%	3.2 ± 107%	3.7 ± 109%
New York	10,000 ± 35%	7,700 ± 28%	4,500 ± 27%	4,500 ± 24%	18,200 ± 26%	17,700 ± 26%	2.2 ± 45%	1.7 ± 37%
North Carolina	9,100 ± 131%	9,300 ± 129%	2,400 ± 109%	4,700 ± 83%	7,900 ± 94%	27,000 ± 113%	3.8 ± 171%	2.0 ± 154%
Pennsylvania	19,200 ± 71%	7,400 ± 71%	9,000 ± 31%	7,000 ± 33%	35,000 ± 35%	32,500 ± 41%	2.1 ± 78%	1.1 ± 78%
Rhode Island	100 ± 92%	600 ± 76%	100 ± 90%	300 ± 80%	600 ± 134%	1,000 ± 91%	1.5 ± 129%	1.9 ± 111%
South Carolina	7,300 ± 112%	1,400 ± 85%	3,600 ± 69%	1,200 ± 121%	15,600 ± 101%	3,900 ± 136%	2.1 ± 132%	1.1 ± 148%
Vermont	6,300 ± 97%	1,500 ± 91%	1,400 ± 33%	1,200 ± 38%	9,200 ± 58%	7,500 ± 49%	4.5 ± 103%	1.2 ± 99%
Virginia	1,600 ± 80%	1,600 ± 36%	1,400 ± 111%	600 ± 101%	2,700 ± 96%	3,300 ± 114%	1.1 ± 137%	2.5 ± 108%
West Virginia	500 ± 90%	600 ± 70%	500 ± 72%	400 ± 57%	1,000 ± 71%	2,200 ± 77%	1.0 ± 115%	1.5 ± 90%
Eastern Unit Total	104,700 ± 29%	63,300 ± 28%	40,100	36,800	169,000 ± 22%	178,000 ± 26%		
Alabama	2,300 ± 159%	5,900 ± 117%	1,000 ± 178%	2,100 ± 163%	3,100 ± 175%	6,500 ± 108%	2.3 ± 239%	2.9 ± 201%
Arkansas	3,100 ± 190%	6,600 ± 112%	5,100 ± 86%	3,000 ± 94%	24,200 ± 108%	8,100 ± 128%	0.6 ± 209%	2.2 ± 146%
Illinois	4,300 ± 100%	5,300 ± 142%	2,100 ± 90%	1,800 ± 98%	6,100 ± 103%	6,200 ± 91%	2.0 ± 135%	2.9 ± 173%
Indiana	800 ± 31%	1,700 ± 79%	900 ± 69%	1,100 ± 63%	2,400 ± 63%	4,000 ± 80%	0.9 ± 76%	1.5 ± 101%
Iowa	1,600 ± 93%	700 ± 155%	1,600 ± 74%	900 ± 102%	4,300 ± 99%	1,800 ± 121%	1.0 ± 119%	0.8 ± 186%
Kansas	2,000 ± 196%	<50 ± 121%	600 ± 138%	<50 ± 121%	2,800 ± 161%	<50 ± 122%	3.5 ± 239%	3.0 ± 171%
Kentucky	1,500 ± 159%	0	2,500 ± 130%	<50 ± 182%	9,400 ± 153%	<50 ± 182%	0.6 ± 205%	0
Louisiana	13,300 ± 101%	24,700 ± 70%	6,000 ± 55%	4,300 ± 44%	16,200 ± 65%	20,800 ± 59%	2.2 ± 115%	5.7 ± 83%
Michigan	78,900 ± 17%	80,900 ± 22%	34,600 ± 13%	26,400 ± 15%	156,000 ± 17%	146,200 ± 21%	2.3 ± 21%	3.1 ± 27%
Minnesota	19,900 ± 67%	16,000 ± 48%	8,700 ± 37%	9,700 ± 37%	37,900 ± 43%	38,300 ± 44%	2.3 ± 76%	1.6 ± 60%
Mississippi	400 ± 71%	1,300 ± 153%	600 ± 160%	1,000 ± 74%	1,800 ± 146%	3,700 ± 89%	0.7 ± 175%	1.2 ± 170%
Missouri	2,600 ± 157%	900 ± 86%	2,800 ± 82%	200 ± 42%	7,300 ± 99%	1,200 ± 49%	1.0 ± 177%	4.9 ± 96%
Nebraska	0	100 ± 190%	900 ± 196%	<50 ± 134%	4,400 ± 196%	100 ± 134%	0	2.5 ± 233%
Ohio	2,300 ± 68%	1,200 ± 63%	2,900 ± 69%	1,600 ± 82%	10,300 ± 70%	7,200 ± 94%	0.8 ± 98%	0.7 ± 103%
Oklahoma	<50 ± 177%	200 ± 149%	700 ± 189%	<50 ± 98%	8,400 ± 194%	100 ± 130%	<0.1 ± 259%	9.3 ± 178%
Tennessee	600 ± 135%	400 ± 102%	100 ± 95%	200 ± 69%	400 ± 130%	1,000 ± 78%	6.3 ± 165%	1.7 ± 124%
Texas	4,700 ± 196%	0	4,700 ± 196%	0	9,300 ± 196%	0	1.0 ± 277%	0
Wisconsin	36,000 ± 27%	29,200 ± 24%	14,200 ± 24%	19,400 ± 22%	65,400 ± 35%	77,100 ± 24%	2.5 ± 36%	1.5 ± 32%
Central Unit Total	174,300 ± 16%	175,100 ± 17%	89,900	72,000	369,800 ± 16%	322,300 ± 14%		
U.S. Total	279,000 ± 15%	238,400 ± 15%	130,000	108,800	538,800 ± 13%	500,300 ± 13%		

¹ Variance estimates presented as 95% confidence interval as percent of the point estimate.

² Hunter number estimates at the management unit and national levels may be biased high, because the HIP sample frames are state specific; therefore hunters are counted more than once if they hunt in >1 state. Variance inestimable.

Table 17. Preliminary estimates of snipe harvest and hunter activity during the 2008 and 2009 hunting seasons ¹.

State and Management Unit	Snipe Harvest		Active Hunters ²		Snipe Days Afield		Seasonal Harvest Per Hunter	
	2008	2009	2008	2009	2008	2009	2008	2009
Connecticut	<50 ± 107%	<50 ± 135%	100 ± 179%	100 ± 164%	300 ± 191%	100 ± 145%	0.1 ± 208%	0.2 ± 213%
Delaware	0	0	0	0	0	0	0.0	0.0
Florida	35,600 ± 59%	37,000 ± 92%	4,800 ± 53%	3,000 ± 76%	14,900 ± 63%	32,100 ± 115%	7.4 ± 79%	12.5 ± 119%
Georgia	0	1,300 ± 155%	100 ± 195%	100 ± 137%	100 ± 195%	500 ± 153%	0.0	10.5 ± 207%
Maine	0	0	0	900 ± 196%	0	2,700 ± 196%	0.0	0.0
Maryland	0	0	0	0	0	0	0.0	0.0
Massachusetts	100 ± 136%	0	100 ± 96%	100 ± 112%	800 ± 144%	400 ± 82%	0.9 ± 166%	0.0
New Hampshire	100 ± 167%	1,900 ± 193%	100 ± 129%	1,000 ± 93%	700 ± 140%	3,600 ± 117%	1.1 ± 211%	2.0 ± 214%
New Jersey	0	0	0	0	0	0	0.0	0.0
New York	100 ± 111%	600 ± 185%	100 ± 85%	100 ± 71%	300 ± 97%	400 ± 87%	0.6 ± 140%	4.4 ± 198%
North Carolina	5,600 ± 172%	300 ± 196%	1,200 ± 161%	300 ± 196%	3,400 ± 169%	300 ± 196%	4.6 ± 235%	1.0 ± 277%
Pennsylvania	<50 ± 135%	400 ± 154%	100 ± 110%	300 ± 107%	200 ± 122%	1,500 ± 135%	0.7 ± 174%	1.3 ± 187%
Rhode Island	0	0	0	0	0	0	0.0	0.0
South Carolina	2,000 ± 94%	1,900 ± 124%	900 ± 121%	1,200 ± 126%	2,100 ± 121%	1,200 ± 126%	2.2 ± 153%	1.6 ± 177%
Vermont	<50 ± 183%	<50 ± 123%	<50 ± 183%	<50 ± 86%	<50 ± 183%	100 ± 115%	5.0 ± 258%	0.5 ± 150%
Virginia	2,800 ± 124%	100 ± 129%	700 ± 125%	200 ± 171%	2,600 ± 127%	300 ± 134%	3.9 ± 176%	0.3 ± 215%
West Virginia	100 ± 192%	100 ± 136%	100 ± 136%	100 ± 136%	100 ± 143%	400 ± 164%	1.0 ± 236%	2.0 ± 193%
Atlantic Flyway Total	46,500 ± 50%	43,600 ± 79%	8,300	7,300	25,300 ± 47%	43,400 ± 86%		
Alabama	1,600 ± 81%	1,400 ± 109%	100 ± 52%	200 ± 77%	600 ± 62%	500 ± 92%	13.8 ± 97%	6.8 ± 133%
Arkansas	0	0	1,300 ± 138%	0	7,900 ± 166%	0	0.0	0.0
Illinois	200 ± 153%	0	100 ± 110%	900 ± 196%	300 ± 143%	900 ± 196%	1.3 ± 188%	0.0
Indiana	200 ± 70%	<50 ± 96%	100 ± 41%	400 ± 173%	200 ± 59%	500 ± 138%	2.9 ± 81%	0.1 ± 198%
Iowa	100 ± 63%	400 ± 169%	700 ± 121%	400 ± 175%	2,000 ± 131%	800 ± 173%	0.2 ± 137%	1.0 ± 243%
Kentucky	0	4,000 ± 141%	1,200 ± 196%	700 ± 135%	1,200 ± 196%	2,500 ± 148%	0.0	5.5 ± 195%
Louisiana	7,700 ± 135%	2,200 ± 153%	1,300 ± 124%	200 ± 111%	3,100 ± 110%	700 ± 113%	6.1 ± 183%	12.7 ± 189%
Michigan	1,200 ± 114%	4,700 ± 131%	1,200 ± 152%	4,200 ± 90%	3,500 ± 152%	12,500 ± 112%	1.0 ± 190%	1.1 ± 159%
Minnesota	2,400 ± 124%	7,800 ± 130%	2,200 ± 72%	2,700 ± 74%	11,100 ± 97%	12,800 ± 96%	1.1 ± 144%	2.9 ± 149%
Mississippi	1,500 ± 196%	0	200 ± 196%	0	700 ± 196%	0	6.0 ± 277%	0.0
Missouri	3,800 ± 117%	100 ± 195%	1,000 ± 119%	1,200 ± 138%	9,800 ± 166%	2,100 ± 111%	4.0 ± 167%	0.1 ± 239%
Ohio	1,200 ± 196%	100 ± 195%	2,300 ± 137%	100 ± 137%	17,300 ± 145%	100 ± 137%	0.5 ± 239%	0.5 ± 238%
Tennessee	0	0	100 ± 194%	0	100 ± 194%	0	0.0	0.0
Wisconsin	500 ± 80%	200 ± 97%	300 ± 44%	100 ± 63%	1,800 ± 64%	600 ± 72%	1.7 ± 91%	1.6 ± 116%
Mississippi Flyway Total	20,200 ± 61%	20,900 ± 65%	11,900	11,100	59,600 ± 59%	34,100 ± 57%		

¹ Variance estimates presented as 95% confidence interval as percent of the point estimate.

² Hunter number estimates at the management unit and national levels may be biased high, because the HIP sample frames are state specific; therefore hunters are counted more than once if they hunt in >1 state. Variance inestimable.

Table 17 (continued). Preliminary estimates of snipe harvest and hunter activity during the 2008 and 2009 hunting seasons ¹.

State and Management Unit	Snipe Harvest		Active Hunters ²		Snipe Days Afield		Seasonal Harvest Per Hunter	
	2008	2009	2008	2009	2008	2009	2008	2009
Colorado	7,000 ± 123%	900 ± 196%	600 ± 116%	400 ± 196%	2,100 ± 111%	400 ± 196%	11.5 ± 169%	2.0 ± 277%
Kansas	0	400 ± 179%	0	800 ± 136%	0	4,200 ± 178%	0.0	0.5 ± 225%
Nebraska	900 ± 148%	1,200 ± 138%	200 ± 137%	900 ± 118%	600 ± 145%	1,200 ± 106%	5.0 ± 201%	1.3 ± 181%
New Mexico	<50 ± 178%	400 ± 196%	<50 ± 178%	200 ± 196%	<50 ± 178%	200 ± 196%	8.0 ± 251%	2.0 ± 277%
North Dakota	300 ± 59%	100 ± 65%	100 ± 37%	100 ± 46%	200 ± 44%	200 ± 70%	4.4 ± 70%	2.4 ± 80%
Oklahoma	2,500 ± 178%	400 ± 130%	500 ± 178%	100 ± 87%	1,300 ± 142%	200 ± 114%	5.0 ± 252%	7.8 ± 156%
South Dakota	200 ± 110%	<50 ± 178%	<50 ± 65%	<50 ± 87%	100 ± 86%	200 ± 145%	10.2 ± 128%	1.3 ± 198%
Texas	700 ± 92%	1,800 ± 158%	2,700 ± 187%	2,700 ± 181%	2,800 ± 178%	13,100 ± 185%	0.3 ± 208%	0.7 ± 240%
Wyoming	300 ± 133%	100 ± 94%	100 ± 130%	<50 ± 71%	200 ± 109%	<50 ± 92%	1.8 ± 186%	6.8 ± 118%
Central Flyway Total	11,900 ± 83%	5,300 ± 73%	4,200	5,100	7,300 ± 81%	19,700 ± 129%		
Arizona	0	200 ± 133%	0	<50 ± 108%	0	200 ± 122%	0.0	5.3 ± 171%
California	9,600 ± 94%	7,400 ± 91%	1,300 ± 95%	1,100 ± 100%	5,500 ± 112%	3,400 ± 78%	7.5 ± 134%	6.6 ± 135%
Idaho	<50 ± 193%	100 ± 194%	<50 ± 193%	1,000 ± 185%	<50 ± 193%	1,000 ± 185%	1.0 ± 273%	0.1 ± 269%
Montana	3,900 ± 193%	100 ± 186%	600 ± 192%	400 ± 187%	1,100 ± 191%	500 ± 162%	7.0 ± 273%	0.2 ± 263%
Nevada	700 ± 181%	1,000 ± 156%	100 ± 163%	300 ± 98%	100 ± 170%	600 ± 93%	9.0 ± 244%	3.7 ± 184%
Oregon	1,400 ± 95%	1,800 ± 108%	700 ± 110%	500 ± 134%	3,700 ± 155%	900 ± 97%	2.0 ± 146%	3.5 ± 172%
Utah	0	800 ± 196%	100 ± 137%	500 ± 112%	500 ± 141%	1,200 ± 109%	0.0	1.5 ± 225%
Washington	100 ± 122%	1,400 ± 100%	<50 ± 61%	1,300 ± 126%	100 ± 86%	3,300 ± 141%	3.3 ± 137%	1.1 ± 161%
Pacific Flyway Total	15,900 ± 76%	12,700 ± 59%	2,900	5,200	11,100 ± 79%	11,100 ± 54%		
Alaska	1,100 ± 114%	900 ± 104%	200 ± 45%	700 ± 132%	700 ± 63%	2,000 ± 135%	5.6 ± 122%	1.3 ± 168%
U.S. Total	95,500 ± 32%	83,500 ± 45%	27,400	29,400	103,900 ± 37%	110,300 ± 45%		

¹ Variance estimates presented as 95% confidence interval as percent of the point estimate.

² Hunter number estimates at the management unit and national levels may be biased high, because the HIP sample frames are state specific; therefore hunters are counted more than once if they hunt in >1 state. Variance inestimable.

Table 18. Preliminary estimates of coot harvest and hunter activity during the 2008 and 2009 hunting seasons ¹.

State and Management Unit	Coot Harvest		Active Hunters ²		Coot Days Afield		Seasonal Harvest Per Hunter	
	2008	2009	2008	2009	2008	2009	2008	2009
Connecticut	300 ± 145%	<50 ± 135%	200 ± 106%	100 ± 181%	2,000 ± 156%	200 ± 181%	1.8 ± 180%	0.4 ± 226%
Delaware	0	<50 ± 188%	0	<50 ± 188%	0	<50 ± 188%	0.0	2.0 ± 266%
Florida	8,100 ± 158%	12,400 ± 154%	700 ± 136%	800 ± 134%	1,000 ± 109%	2,000 ± 119%	11.2 ± 208%	14.7 ± 205%
Georgia	0	800 ± 194%	0	100 ± 194%	0	700 ± 194%	0.0	13.0 ± 275%
Maine	0	0	500 ± 186%	0	1,000 ± 186%	0	0.0	0.0
Maryland	100 ± 188%	0	500 ± 191%	0	1,100 ± 187%	0	0.1 ± 268%	0.0
Massachusetts	<50 ± 139%	0	<50 ± 80%	<50 ± 124%	100 ± 95%	<50 ± 124%	1.3 ± 160%	0.0
New Hampshire	0	1,600 ± 196%	0	200 ± 196%	0	2,100 ± 196%	0.0	7.0 ± 277%
New Jersey	0	0	0	0	0	0	0.0	0.0
New York	1,900 ± 133%	500 ± 134%	600 ± 119%	100 ± 95%	1,500 ± 138%	400 ± 98%	3.3 ± 179%	6.5 ± 164%
North Carolina	3,000 ± 196%	6,900 ± 196%	300 ± 196%	1,100 ± 196%	2,500 ± 196%	4,600 ± 196%	12.0 ± 277%	6.0 ± 277%
Pennsylvania	4,600 ± 195%	1,900 ± 89%	1,200 ± 189%	500 ± 75%	4,700 ± 190%	2,800 ± 85%	3.9 ± 271%	3.5 ± 116%
Rhode Island	0	0	0	0	0	0	0.0	0.0
South Carolina	2,700 ± 145%	200 ± 171%	1,200 ± 111%	100 ± 133%	1,600 ± 118%	200 ± 162%	2.3 ± 183%	4.5 ± 217%
Vermont	0	<50 ± 174%	0	<50 ± 174%	0	<50 ± 174%	0.0	4.0 ± 246%
Virginia	500 ± 167%	300 ± 107%	100 ± 92%	200 ± 159%	500 ± 120%	2,000 ± 178%	5.5 ± 190%	1.3 ± 191%
West Virginia	<50 ± 175%	0	<50 ± 175%	0	<50 ± 175%	0	4.0 ± 248%	0.0
Atlantic Flyway Total	21,300 ± 82%	24,800 ± 96%	5,300	3,300	16,000 ± 72%	14,900 ± 74%	0	
Alabama	1,300 ± 76%	20,500 ± 153%	100 ± 52%	2,000 ± 176%	600 ± 84%	6,900 ± 151%	11.0 ± 92%	10.5 ± 233%
Arkansas	2,000 ± 196%	0	700 ± 196%	0	7,900 ± 196%	0	3.0 ± 277%	0.0
Illinois	100 ± 194%	0	<50 ± 194%	0	<50 ± 194%	0	3.0 ± 274%	0.0
Indiana	2,000 ± 139%	1,300 ± 82%	600 ± 123%	800 ± 121%	1,400 ± 108%	1,100 ± 93%	3.2 ± 186%	1.6 ± 146%
Iowa	1,000 ± 119%	2,400 ± 151%	1,300 ± 91%	400 ± 160%	3,100 ± 95%	2,800 ± 151%	0.8 ± 150%	5.3 ± 220%
Kentucky	300 ± 193%	5,400 ± 138%	<50 ± 193%	700 ± 135%	<50 ± 193%	4,400 ± 137%	10.0 ± 273%	7.5 ± 193%
Louisiana	171,500 ± 67%	80,600 ± 63%	5,400 ± 58%	4,600 ± 63%	20,600 ± 66%	15,100 ± 70%	31.7 ± 88%	17.4 ± 89%
Michigan	5,700 ± 137%	9,500 ± 147%	1,900 ± 132%	2,200 ± 126%	2,800 ± 137%	2,600 ± 109%	3.0 ± 190%	4.4 ± 194%
Minnesota	9,700 ± 87%	18,800 ± 103%	2,300 ± 76%	1,700 ± 68%	7,900 ± 109%	7,400 ± 98%	4.3 ± 115%	11.1 ± 123%
Mississippi	4,900 ± 122%	0	1,400 ± 135%	0	2,900 ± 133%	0	3.6 ± 182%	0.0
Missouri	1,800 ± 139%	100 ± 195%	1,000 ± 116%	900 ± 171%	9,500 ± 170%	900 ± 171%	1.8 ± 181%	0.1 ± 260%
Ohio	0	500 ± 195%	0	100 ± 137%	0	400 ± 165%	0.0	4.0 ± 238%
Tennessee	2,000 ± 106%	0	300 ± 94%	0	1,100 ± 123%	0	7.8 ± 142%	0.0
Wisconsin	5,600 ± 58%	3,700 ± 85%	2,300 ± 115%	2,000 ± 127%	5,900 ± 101%	6,300 ± 144%	2.5 ± 129%	1.9 ± 153%
Mississippi Flyway Total	207,900 ± 55%	142,800 ± 45%	17,200	15,500	64,100 ± 45%	48,000 ± 43%		

¹ Variance estimates presented as 95% confidence interval as percent of the point estimate.

² Hunter number estimates at the management unit and national levels may be biased high, because the HIP sample frames are state specific; therefore hunters are counted more than once if they hunt in >1 state. Variance inestimable.

Table 18 (continued). Preliminary estimates of coot harvest and hunter activity during the 2008 and 2009 hunting seasons ¹.

State and Management Unit	Coot Harvest		Active Hunters ²		Coot Days Afield		Seasonal Harvest Per Hunter	
	2008	2009	2008	2009	2008	2009	2008	2009
Colorado	1,700 ± 102%	0	800 ± 94%	0	2,100 ± 104%	0	2.2 ± 139%	0.0
Kansas	300 ± 191%	400 ± 196%	300 ± 191%	800 ± 138%	300 ± 191%	4,100 ± 179%	1.0 ± 271%	0.5 ± 239%
Nebraska	0	0	0	0	0	0	0.0	0.0
New Mexico	300 ± 150%	100 ± 178%	300 ± 167%	<50 ± 178%	300 ± 147%	<50 ± 178%	1.1 ± 225%	10.0 ± 252%
North Dakota	700 ± 107%	2,200 ± 120%	400 ± 170%	600 ± 155%	600 ± 136%	800 ± 104%	1.6 ± 201%	3.9 ± 196%
Oklahoma	1,700 ± 139%	100 ± 130%	100 ± 57%	<50 ± 130%	400 ± 84%	200 ± 176%	16.0 ± 150%	2.0 ± 184%
South Dakota	4,200 ± 156%	1,000 ± 124%	800 ± 105%	600 ± 127%	3,300 ± 143%	2,400 ± 143%	5.5 ± 188%	1.5 ± 178%
Texas	800 ± 80%	12,200 ± 160%	200 ± 76%	2,600 ± 185%	300 ± 84%	5,700 ± 169%	5.2 ± 111%	4.7 ± 245%
Wyoming	200 ± 195%	<50 ± 112%	200 ± 111%	<50 ± 106%	200 ± 111%	<50 ± 112%	1.0 ± 224%	4.5 ± 154%
Central Flyway Total	9,900 ± 73%	15,800 ± 125%	3,100	4,600	7,500 ± 71%	13,400 ± 95%		
Arizona	0	400 ± 154%	0	100 ± 92%	0	100 ± 124%	0.0	6.3 ± 180%
California	10,700 ± 72%	24,600 ± 69%	600 ± 27%	3,800 ± 58%	3,500 ± 46%	10,200 ± 56%	16.8 ± 77%	6.5 ± 90%
Idaho	1,200 ± 128%	1,000 ± 185%	800 ± 127%	1,000 ± 185%	800 ± 123%	1,000 ± 185%	1.6 ± 181%	1.0 ± 262%
Montana	100 ± 186%	100 ± 169%	600 ± 192%	<50 ± 129%	1,700 ± 190%	100 ± 169%	0.3 ± 267%	5.5 ± 213%
Nevada	2,000 ± 171%	700 ± 133%	100 ± 163%	200 ± 118%	200 ± 138%	500 ± 147%	25.8 ± 237%	4.0 ± 178%
Oregon	3,300 ± 91%	2,100 ± 175%	900 ± 87%	200 ± 77%	1,300 ± 72%	400 ± 100%	3.5 ± 126%	10.5 ± 191%
Utah	9,900 ± 84%	3,000 ± 98%	1,600 ± 67%	1,300 ± 73%	7,700 ± 77%	5,600 ± 133%	6.2 ± 108%	2.3 ± 122%
Washington	9,400 ± 161%	3,600 ± 161%	1,000 ± 106%	1,200 ± 132%	3,100 ± 113%	3,000 ± 157%	9.7 ± 192%	3.0 ± 209%
Pacific Flyway Total	36,700 ± 53%	35,600 ± 52%	5,600	7,700	18,300 ± 43%	21,000 ± 51%		
U.S. Total	275,900 ± 43%	219,000 ± 34%	31,100	31,100	105,800 ± 31%	97,300 ± 29%		

¹ Variance estimates presented as 95% confidence interval as percent of the point estimate.

² Hunter number estimates at the management unit and national levels may be biased high, because the HIP sample frames are state specific; therefore hunters are counted more than once if they hunt in >1 state. Variance inestimable.

Table 19. Preliminary estimates of gallinule harvest and hunter activity during the 2008 and 2009 hunting seasons ¹.

State and Management Unit	Gallinule Harvest		Active Hunters ²		Gallinule Days Afield		Seasonal Harvest Per Hunter	
	2008	2009	2008	2009	2008	2009	2008	2009
Delaware	0	0	0	0	0	0	0.0	0.0
Florida	2,900 ± 151%	900 ± 193%	500 ± 170%	500 ± 183%	500 ± 161%	1,500 ± 187%	5.9 ± 228%	1.9 ± 266%
Georgia	0	0	0	0	0	0	0.0	0.0
Maine	0	0	0	0	0	0	0.0	0.0
New Jersey	0	0	0	0	0	0	0.0	0.0
New York	0	<50 ± 191%	200 ± 196%	<50 ± 191%	700 ± 196%	100 ± 191%	0.0	2.0 ± 270%
North Carolina	0	0	0	0	0	0	0.0	0.0
Pennsylvania	0	0	0	0	0	0	0.0	0.0
Rhode Island	0	0	0	0	0	0	0.0	0.0
South Carolina	0	0	0	0	0	0	0.0	0.0
Virginia	<50 ± 188%	<50 ± 182%	<50 ± 132%	<50 ± 182%	<50 ± 140%	<50 ± 182%	0.5 ± 230%	1.0 ± 257%
West Virginia	<50 ± 192%	0	<50 ± 192%	0	<50 ± 192%	0	1.0 ± 272%	0.0
Atlantic Flyway Total	3,000 ± 149%	1,000 ± 184%	800	500	1,300 ± 125%	1,600 ± 175%		
Alabama	0	0	<50 ± 185%	0	<50 ± 185%	0	0.0	0.0
Arkansas	0	0	0	0	0	0	0.0	0.0
Indiana	0	0	0	0	0	0	0.0	0.0
Kentucky	0	0	0	0	0	0	0.0	0.0
Louisiana	2,200 ± 107%	3,000 ± 80%	100 ± 65%	100 ± 49%	400 ± 105%	700 ± 76%	24.5 ± 125%	21.0 ± 94%
Michigan	0	0	100 ± 195%	0	200 ± 195%	0	0.0	0.0
Minnesota	1,100 ± 196%	0	1,100 ± 113%	0	2,900 ± 134%	0	1.0 ± 226%	0.0
Mississippi	200 ± 196%	0	200 ± 196%	0	200 ± 196%	0	1.0 ± 277%	0.0
Ohio	0	0	0	100 ± 194%	0	100 ± 194%	0.0	0.0
Tennessee	0	0	100 ± 194%	0	600 ± 194%	0	0.0	0.0
Wisconsin	0	700 ± 196%	700 ± 196%	700 ± 196%	1,300 ± 196%	4,800 ± 196%	0.0	1.0 ± 277%
Mississippi Flyway Total	3,500 ± 91%	3,700 ± 75%	2,200	900	5,600 ± 85%	5,600 ± 168%		
New Mexico	0	0	0	0	0	0	0.0	0.0
Oklahoma	0	0	<50 ± 175%	0	<50 ± 175%	0	0.0	0.0
Texas	100 ± 192%	0	<50 ± 192%	0	<50 ± 192%	0	3.0 ± 271%	0.0
Central Flyway Total	100 ± 192%	0	<50	0	100 ± 139%	0		
Arizona	0	<50 ± 190%	0	<50 ± 190%	0	<50 ± 190%	0.0	2.0 ± 269%
California	6,700 ± 177%	2,700 ± 132%	700 ± 127%	900 ± 108%	4,200 ± 169%	2,100 ± 110%	10.2 ± 218%	3.0 ± 171%
Idaho	0	0	0	0	0	0	0.0	0.0
Montana	0	0	0	0	0	0	0.0	0.0
Nevada	0	0	0	0	0	0	0.0	0.0
Pacific Flyway Total	6,700 ± 177%	2,700 ± 131%	700	900	4,200 ± 169%	2,100 ± 109%		
U.S. Total	13,200 ± 98%	7,400 ± 66%	3,700	2,300	11,200 ± 78%	9,300 ± 109%		

¹ Variance estimates presented as 95% confidence interval as percent of the point estimate.

² Hunter number estimates at the management unit and national levels may be biased high, because the HIP sample frames are state specific; therefore hunters are counted more than once if they hunt in >1 state. Variance inestimable.

Table 20. Preliminary estimates of rail harvest and hunter activity during the 2008 and 2009 hunting seasons ¹.

State and Management Unit	Rail Harvest		Active Hunters ²		Rail Days Afield		Seasonal Harvest Per Hunter	
	2008	2009	2008	2009	2008	2009	2008	2009
Connecticut	200 ± 187%	<50 ± 0%	100 ± 131%	<50 ± 0%	300 ± 150%	<50 ± 0%	2.0 ± 228%	5.0 ± 0%
Delaware	0	0	0	0	0	0	0.0	0.0
Florida	800 ± 193%	6,500 ± 150%	<50 ± 193%	900 ± 138%	100 ± 193%	2,800 ± 166%	25.0 ± 273%	7.0 ± 204%
Georgia	14,300 ± 106%	1,800 ± 188%	1,100 ± 165%	100 ± 137%	2,400 ± 153%	300 ± 153%	12.6 ± 196%	14.5 ± 233%
Maine	0	0	0	0	0	0	0.0	0.0
Maryland	0	100 ± 186%	0	<50 ± 186%	0	<50 ± 186%	0.0	15.0 ± 263%
Massachusetts	<50 ± 116%	<50 ± 179%	<50 ± 90%	<50 ± 91%	<50 ± 103%	<50 ± 99%	1.7 ± 147%	1.7 ± 201%
New Jersey	3,700 ± 64%	800 ± 134%	100 ± 38%	100 ± 108%	400 ± 58%	300 ± 120%	29.6 ± 74%	10.3 ± 172%
New York	0	4,100 ± 195%	300 ± 176%	200 ± 178%	800 ± 176%	1,300 ± 183%	0.0	19.1 ± 264%
North Carolina	1,800 ± 196%	300 ± 196%	300 ± 196%	300 ± 196%	800 ± 196%	500 ± 196%	7.0 ± 277%	1.0 ± 277%
Pennsylvania	0	0	0	0	0	0	0.0	0.0
Rhode Island	0	0	0	0	0	0	0.0	0.0
South Carolina	2,500 ± 68%	10,200 ± 156%	100 ± 52%	700 ± 158%	200 ± 67%	700 ± 145%	30.5 ± 86%	15.3 ± 222%
Virginia	9,700 ± 72%	5,900 ± 55%	300 ± 33%	400 ± 102%	1,300 ± 70%	800 ± 60%	33.3 ± 79%	15.5 ± 115%
West Virginia	0	0	0	0	0	0	0.0	0.0
Atlantic Flyway Total	33,100 ± 52%	29,800 ± 70%	2,300	2,700	6,300 ± 69%	6,700 ± 81%		
Alabama	300 ± 185%	0	<50 ± 185%	0	100 ± 185%	0	33.0 ± 261%	0.0
Arkansas	0	0	0	0	0	0	0.0	0.0
Illinois	0	0	100 ± 136%	0	200 ± 164%	0	0.0	0.0
Indiana	1,200 ± 158%	<50 ± 165%	300 ± 128%	<50 ± 115%	1,000 ± 150%	<50 ± 115%	3.5 ± 203%	0.5 ± 201%
Iowa	700 ± 181%	<50 ± 129%	500 ± 130%	500 ± 134%	1,400 ± 159%	600 ± 124%	1.5 ± 223%	0.1 ± 186%
Kentucky	<50 ± 193%	0	<50 ± 193%	0	<50 ± 193%	0	1.0 ± 273%	0.0
Louisiana	800 ± 139%	200 ± 137%	100 ± 76%	<50 ± 131%	300 ± 116%	<50 ± 131%	11.8 ± 159%	11.5 ± 190%
Michigan	0	300 ± 195%	100 ± 195%	100 ± 195%	200 ± 195%	500 ± 195%	0.0	3.0 ± 276%
Minnesota	2,500 ± 196%	900 ± 196%	1,200 ± 103%	900 ± 138%	4,700 ± 97%	9,700 ± 179%	2.1 ± 221%	1.0 ± 240%
Mississippi	0	0	200 ± 196%	0	700 ± 196%	0	0.0	0.0
Missouri	1,900 ± 102%	0	1,000 ± 122%	100 ± 195%	9,300 ± 183%	400 ± 195%	2.0 ± 159%	0.0
Ohio	0	100 ± 194%	0	100 ± 194%	0	100 ± 194%	0.0	1.0 ± 275%
Tennessee	0	0	100 ± 194%	0	600 ± 194%	0	0.0	0.0
Wisconsin	700 ± 196%	0	2,000 ± 113%	700 ± 196%	4,600 ± 115%	6,200 ± 196%	0.3 ± 226%	0.0
Mississippi Flyway Total	8,100 ± 74%	1,500 ± 123%	5,500	2,400	23,100 ± 81%	17,400 ± 122%		
Colorado	100 ± 195%	400 ± 196%	100 ± 195%	400 ± 196%	100 ± 195%	400 ± 196%	1.0 ± 276%	1.0 ± 277%
Kansas	3,300 ± 173%	4,300 ± 175%	800 ± 138%	1,400 ± 112%	800 ± 138%	7,200 ± 141%	4.0 ± 221%	3.0 ± 208%
Nebraska	300 ± 195%	0	100 ± 195%	0	300 ± 195%	0	4.0 ± 275%	0.0
New Mexico	0	0	0	0	0	0	0.0	0.0
Oklahoma	<50 ± 175%	<50 ± 176%	<50 ± 94%	900 ± 137%	<50 ± 115%	1,300 ± 142%	0.3 ± 199%	0.1 ± 223%
Texas	100 ± 157%	0	2,400 ± 192%	0	2,400 ± 190%	0	<0.1 ± 249%	0.0
Wyoming	<50 ± 160%	0	<50 ± 160%	0	<50 ± 160%	0	1.0 ± 227%	0.0
Central Flyway Total	3,800 ± 150%	4,800 ± 159%	3,400	2,700	3,700 ± 130%	8,900 ± 115%		
U.S. Total	45,000 ± 43%	36,100 ± 62%	11,200	7,800	33,200 ± 60%	33,100 ± 73%		

¹ Variance estimates presented as 95% confidence interval as percent of the point estimate.

² Hunter number estimates at the management unit and national levels may be biased high, because the HIP sample frames are state specific; therefore hunters are counted more than once if they hunt in >1 state. Variance inestimable.

³ Variance inestimable.

Table 21. Preliminary estimates of rail harvest during the 2008 and 2009 hunting seasons. Species-specific estimates were derived from 5-year running averages of species composition estimates from the Migratory Bird Wing Collection Survey.

Flyway	Sora		Virginia		Clapper		King	
	2008	2009	2008	2009	2008	2009	2008	2009
Atlantic	8,000	6,400	400	300	24,700	23,100	<50	<50
Mississippi	8,000	1,500	100	<50	<50	<50	<50	<50
Central	3,700	4,600	100	200	0	0	0	0
U.S. Total	19,600	12,500	600	500	24,700	23,100	<50	<50

Appendix A. Names of people who coordinate the Harvest Information Program or help provide hunter name and address data to the USFWS.

Jim Robertson, Alabama Department of Conservation and Natural Resources
Kristin Wright, Alaska Department of Fish and Game
Amber Munig, Arizona Game and Fish Department
Susan Porter, Arkansas Game and Fish Commission
Kim Shepherd, California Department of Fish and Game
Ed Gorman, Colorado Division of Wildlife
Min Huang, Connecticut Department of Environmental Protection
Lynn Herman, Delaware Department of Natural Resources and Environmental Control
Cindy Whittington, Florida Fish and Wildlife Conservation Commission
Mike England and David Neyhart, Georgia Department of Natural Resources
Craig Weidmeier, Idaho Department of Fish and Game
Craig Hill, Illinois Department of Natural Resources
Adam Phelps, Indiana Department of Natural Resources
Steve Weaver, Iowa Department of Natural Resources
Mary Becker, Kansas Department of Wildlife and Parks
Denise Boebinger, Kentucky Department of Fish and Wildlife Resources
Janis Landry, Louisiana Department of Wildlife and Fisheries
Bill Swan, Maine Department of Inland Fisheries and Wildlife
Brent Evans, Maryland Department of Natural Resources
Rick Kennedy and H Heussman, Massachusetts Division of Fisheries and Wildlife
Kristen Shuler, Michigan Department of Natural Resources
Margaret Dexter, Minnesota Department of Natural Resources
Curtis Thonhill, Mississippi Department of Wildlife, Fisheries and Parks
Tom Kulowiec, Missouri Department of Conservation
Hank Worsche, Montana Department of Fish, Wildlife and Parks
Mark Vrtiska, Nebraska Game and Parks Commission
Paula Lannen, Nevada Department of Wildlife
Susan Perry, New Hampshire Fish and Game Department
Barbara Stoff, New Jersey Division of Fish and Wildlife
Tim Mitchusson, New Mexico Department of Game and Fish
Mary Bailey and Bryan Swift, New York Department of Environmental Conservation
Harvey White and Bobby Dunn, North Carolina Wildlife Resources Commission
Jerel Gulke, North Dakota Game and Fish Department
Korey Brown, Ohio Department of Natural Resources
Rodney Derrick, Oklahoma Department of Wildlife Conservation
Bill Herber and Brandon Reishus, Oregon Department of Fish and Wildlife
Valerie Kazakavage, Pennsylvania Game Commission
Ed Ferris, Rhode Island Division of Fish and Wildlife Resources
Bryan Kyzer, South Carolina Department of Natural Resources
Corey Huxoll, South Dakota Game, Fish and Parks Department
Gary Clouse, Tennessee Wildlife Resources Agency
Kevin Kraii, Texas Parks and Wildlife Department
Tom Aldrich, Utah Division of Wildlife Resources

Tom Merrifield, Vermont Fish and Wildlife Department
Bob Ellis and Gary Costanzo, Virginia Department of Game and Inland Fisheries
Rajbir Deol, Washington Department of Fish and Wildlife
Joyce Newcomer, West Virginia Department of Natural Resources
Davdi Argal, Wisconsin Department of Natural Resources
Jerome Espinoza, Wyoming Game and Fish Department

Appendix B. Names of waterfowl wingbee participants.

Atlantic Flyway wingbee, Laurel, MD; January 25-29, 2010

J. Bennett, MD DNR; B. Bowser, USFWS; N. Carle, USFWS; M. Chappell, Carroll County Outdoor School (volunteer); L. Coldiron, USFWS; A. Croft, USFWS; J. Davis, DE DFW; M. DiBona, DE DFW; T. Duclos, USFWS; G. Erskine, PA GC; C. Eyler, PA GC; C. Ferguson, USFWS (retired); C. Ferguson, Carroll County Outdoor School (volunteer); T. Fries, OSU; J. Gilbert, PA GC; G. Hansen, PA GC; A. Hardaswick, USFWS; M. Hessey, Carroll County Outdoor School (volunteer); R. Hossler, DE DFW; M. Hoy, Carroll County Outdoor School (volunteer); J. Joachimowski, DE DFW; B. Jones, USFWS; J. Klimstra, USFWS; P. Lavretsky, WSU; M. Lathroum, MD DNR; M. Livingston, USFWS (volunteer); W. Martin, USFWS (retired); K. McCargo, NC WRC; A. Muller, USFWS; J. O'Connor, NY DEC; P. Padding, USFWS; J. Pape, USFWS (volunteer); M. Peters, WV DNR; B. Raftovich, USFWS; K. Richkus, USFWS; B. Rosamund, USFWS; N. Sagwitz, MD DNR; B. Sharick, NY DEC; M. Simmons, USFWS; C. Shearer, PA GC; R. Slemmons, OSU; J. Smallwood, PA GC; F. Smith, DE DFW; S. Staples, Meadowside Nature Center (volunteer); M. Talmadge, USFWS; J. Tapp, USFWS; K. Wilkins, USFWS; K. Witowski, USFWS

Mississippi Flyway wingbee, Carbondale, IL; February 1-5, 2010

R. Colvis, KY DFW; C. Daniel, MO DOC; B. Davis, LSU; B. Dybas-Berger, MI DNR; C. Ferrell, USFWS; S. Ferrell, KY DFW; R. Flagen, USFWS; D. Fuqua, TN WRA; L. Graber, OH DOW; J. Hanks, LA DFW; J. Hartleb, USFWS; B. Hickman, IA DNR; S. Jacoby, IL DNR; R. Kelly, MO DOC; D. Klimek, USFWS; G. Knutsen, USFWS; P. Link, LA DFW; D. Major, IL DNR; K. Mangan, USFWS; P. Mathias, USFWS; D. Norwood, USFWS; A. Novarra, USFWS (retired); D. Prosser, USFWS; B. Raftovich, USFWS; D. Rave, MN DNR; K. Richkus, USFWS; C. Roeder, USFWS; C. Sousa, MN DNR; R. Taylor, KY DFW; C. Trine, IA DNR; S. Vacek, USFWS; R. Vinson, MO DOC; K. Viste-Sparkman, USFWS; R. Whitton, IL DNR; T. Witham, OH DNR

Central Flyway wingbee, Emporia, KS; February 15-19, 2010

L. Alford, TX PWD; D. Benning, USFWS (retired); S. Crook, TX PWD, J. Ermer, USFWS; D. Farmer, KS DWP; A. Friesen, KS DWP; M. Grovijahn, SD GFP; L. Hancock, USFWS; H. Hands, KS DWP; D. Haukos, USFWS; B. Johnson, TX PWD; M. Johnson, ND GFD; D. Kellet, CWS; J. Kiesow, USFWS; K. Kloft, KS DWP; K. Kraii, TX PWD; K. Kruse, USFWS; J. Laing, TX PWD; N. Lyman, NE GFC (retired); F. McNew, KS DWP; T. Mitchusson, NM DGF; K. Mower, NM DGF; D. McCollough, OK DWC; R. Mort, NE GPC; C. Mueller, USFWS; J. Neal, OK DWC; D. Olson, USFWS; M. Reigh, OK DWC; J. Richardson, OK DWC; K. Richkus, USFWS; L. Roberts, WY GFD; K. Schoonover, OK DWC; D. Sharp, USFWS; R. Shively, USFWS; J. Solberg, USFWS; H. Spriggs, USFWS; R. Stutheit, NE GPC; M. Szymanski, ND GFD; P. Thorpe, USFWS; R. Watts, TX PWD; S. Williams, USFWS

Pacific Flyway wingbee, Anderson, CA; February 22-26, 2010

B. Bales, OR DFW; A. Barton, NTHS (volunteer); B. Barton, CA SP; N. Baucom, USFWS; S. Beauchaine, USFWS; D. Collins, USFWS; S. Cordes, CA DFG; C. Dau, USFWS; D. DeFilipps, USFWS; G. Gerstenberg, CA DFG; B. Henry, USFWS; J. Hoskins, USFWS; J. Hoskins, USFWS; J. Laughlin, CWA; V. Loverti, USFWS; L. Marthe, UT DWR; M. Miller, USGS (retired); M. Moore, WA DFW; K. Neil, NV DOW; S. Oldenburger, CA DFG; T. Olson, USFWS; R. Pence, USFWS; R. Prince, OR DFW; B. Raftovich, USFWS; B. Reishus, OR DFW; K. Richkus, USFWS; N. Saake, NV DOW (retired); S. Shunk, USFWS; M. Strassburger, USFWS; R. Takayama, CA DFG (retired); T. Thornton, OR DFW; C. Trese, ID FG; B. Trost, USFWS; C. Vallee, USFWS; M. Weaver, CA DFG; K. Wilkins, USFWS, R. York, USFWS; D. Yparraguirre, CA DFG

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