



U.S. Fish & Wildlife Service

Migratory bird hunting activity and harvest during the 2012-13 and 2013-14 hunting seasons

July 2014



Hunter setting decoys.
USFWS/Milton Friend

Migratory bird hunting activity and harvest during the 2012-13 and 2013-14 hunting seasons.

Suggested citation:

Raftovich, R.V., S. Chandler, and K.A. Wilkins. 2014. Migratory bird hunting activity and harvest during the 2012-13 and 2013-14 hunting seasons. U.S. Fish and Wildlife Service, Laurel, Maryland, USA.

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Abstract: National surveys of migratory bird hunters were conducted during the 2012 and 2013 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 gallinule [*Gallinula galeata*] and purple gallinule [*Pophyrrio martinica*]), and rails (king rail [*Rallus elegans*], clapper rail [*R. longirostris*], Virginia rail [*R. limicola*], and sora [*Coturnicops noveboracensis*]). Over 1.1 million waterfowl hunters harvested 15,704,500 ($\pm 6\%$) ducks and 3,191,200 ($\pm 6\%$) geese in 2012, and about 1 million waterfowl hunters harvested 13,716,400 ($\pm 6\%$) ducks and 3,360,400 ($\pm 6\%$) geese in 2013. Mallard (*Anas platyrhynchos*), green-winged teal (*A. crecca*), gadwall (*A. strepera*), blue-winged/cinnamon teal (*A. discors* and *A. cyanoptera*), 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 828,900 dove hunters harvested 14,490,900 ($\pm 7\%$) mourning doves in 2012 and 857,300 hunters harvested 14,529,800 $\pm 7\%$ in 2013. Woodcock hunters numbered about 103,700 in 2012 and 109,800 in 2013, and harvested 279,500 ($\pm 21\%$) in 2012 and 243,100 ($\pm 15\%$) in 2013. About 30,300 people hunted snipe in 2012 and 24,700 in 2013, and they harvested 64,900 ($\pm 35\%$) and 69,100 ($\pm 38\%$) snipe in 2012 and 2013, respectively. Coot hunters (about 40,500 in 2012 and 34,800 in 2013) harvested 208,700 ($\pm 42\%$) coots in 2012 and 254,900 ($\pm 41\%$) in 2013. Gallinule hunters (about 2,300 in 2012 and 6,300 in 2013) harvested 22,900 ($\pm 97\%$) in 2012 and 21,300 ($\pm 78\%$) in 2013. About 2,200 rail hunters harvested 16,900 ($\pm 38\%$) rails in 2012 and 6,900 rail hunters harvested 23,500 ($\pm 56\%$) rails in 2013.

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 2012-13 and 2013-14 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 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 1963-2013 were reported in “American woodcock population status, 2014” (Cooper and Rau 2014). 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.

Beginning in 2007, the FWS has performed a national Mourning Dove Parts Collection Survey to determine an index of recruitment. Selected hunters were asked to send in a wing from mourning doves harvested during the first two hunts of the season. Pooled age ratios from 2008-2013 will be reported in “Mourning Dove population status, 2014”.

Survey Results

Waterfowl Hunter Activity and Harvest (Tables 1-7, Figures 1-3). HIP waterfowl harvest survey sample sizes and response rates were 79,958 hunters and 45% for the 2012-13, and 76,461 hunters and 41% for the 2013-14 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-present.

Waterfowl Age and Sex Ratios (Tables 8-12, Figures 3-6). The 2012-13 Waterfowl Parts Survey collected 69,105 duck wings and 13,975 goose tails and primary tips from 3,639 hunters; the 2013-14 sample consisted of 74,693 duck wings and 16,422 goose tails and primary wing tips from 4,196 hunters. 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 38,403 hunters in 2012-13 (51% response rate) and 46,999 hunters in 2013-14 (46% 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 2012-13 survey had a sample size of 17,168 hunters and a 55% response rate; the 2013-14 survey sample size and response rate were 17,357 hunters and 51%.

Snipe, Coot, Gallinule, and Rail Hunter Activity and Harvest (Tables 17-21). The sample for the 2012-13 snipe, coot, gallinule, and rail harvest survey was 31,311 hunters (51% response rate) and 33,221 hunters (43% response rate) for the 2013-14 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 2012-13 estimates are based on the species composition of 2,905 rail wings collected from 137 hunters collected during 2008-2012, and the 2013-14 estimates are based on 2,478 rail wings collected from 135 hunters collected during 2009-2013.

Alaska Sandhill Crane Hunter Activity and Harvest Estimates. The estimates presented below were derived from surveys of 744 (2012-13, 60% response rate) and 833 (2012-13, 56% response rate) Alaska migratory bird hunters. For Alaska's 2012 season, we estimated that 1,000 active sandhill crane hunters spent 4,200 days hunting cranes and harvested 2,000 birds. In 2013, an estimated 1,000 active hunters spent 4,100 days hunting cranes and harvested 1,400 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 2012 and 2013 seasons were reported in, "Status and harvests of sandhill cranes: Mid-continent, Rocky Mountain, Lower Colorado River Valley and Eastern populations" (Kruse et al. 2014).

Acknowledgments

The Branch of Harvest Surveys' survey clerks (Tommy Ceaser II, Ellen Griffin-Pollard, Lamar Heckstall and Pamela Mathias), biological technicians (Brent West, Lyle Hancock, and Paul Walfoort), IT staff (Howard Spriggs and Sheri Williams) and secretary (Susane Finucane) were major contributors to this project.

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 and affiliations of the people who were primarily responsible for coordinating the HIP program in each state are included in Appendix A. The names and affiliations 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.

REFERENCES

Atwood, E. L. 1956. Validity of mail survey data on bagged waterfowl. *Journal of Wildlife Management* 20: 1-16.

Cleveland, W. S., and S. J. Devlin. 1988. Locally weighted regression: an approach to regression analysis by local fitting. *Journal of the American Statistical Association* 83: 596-610.

Cochran, W. G. 1977. *Sampling Techniques*. Wiley, New York.

Cooper, T. R., and R.D. Rau. 2013. American woodcock population status, 2013. U.S. Fish and Wildlife Service, Laurel, Maryland. 16 pp.

Dillman, D. A. 1978. *Mail and telephone surveys: the Total Design Method*. Wiley & Sons, New York, USA.

Dillman, D. A. 1991. The design and administration of mail surveys. *Annual Review of Sociology* 17: 225-249.

Elden R.C., W.V. Bevill, P.I. Padding, J.E. Frampton, and D.L. Shroufe. 2002. Pages 7-16 in J.M. Ver Steeg and R.C. Elden, compilers. *Harvest Information Program: Evaluation and Recommendations*. International Association of Fish and Wildlife Agencies, Migratory Shore and Upland Game Bird Working Group, Ad Hoc Committee on HIP, Washington, D.C.

Kruse, K.L., J.A Dubovsky, and T.R. Cooper. 2014. Status and harvests of sandhill cranes: Mid-continent, Rocky Mountain, Lower Colorado River Valley Populations and Eastern Populations. Administrative Report, U.S. Fish and Wildlife Service, Lakewood, Colorado 14 pp.

Steele, R.G., and J.H. Torrie. 1980. *Principles and procedures of statistics: a biometrical approach*. McGraw-Hill Book Company, New York, New York. 633 pp.

Table 1A. Preliminary estimates of waterfowl harvest and hunter activity in the Atlantic Flyway during the 2012 and 2013 hunting seasons.

Duck Species Composition	Connecticut		Delaware		Florida	
	2012	2013	2012	2013	2012	2013
Mallard	6,745	6,754	10,736	10,840	1,358	1,164
Domestic Mallard	0	71	160	0	209	129
Black Duck	1,647	1,884	4,807	4,635	0	0
Mallard x Black Hybrid	124	249	481	374	0	259
Mottled Duck	0	0	0	0	7,939	9,050
Gadwall	280	355	1,763	2,916	1,671	646
Wigeon	373	249	1,602	748	2,194	4,137
Green-winged Teal	932	747	11,698	8,822	12,430	9,179
Blue-winged/Cinnamon Teal	0	36	481	299	71,029	50,422
Northern Shoveler	31	36	2,083	1,719	7,834	6,981
Northern Pintail	62	107	1,282	748	1,567	517
Wood Duck	870	2,204	5,769	4,411	13,997	5,042
Redhead	0	0	0	449	3,551	11,765
Canvasback	0	36	641	224	418	776
Greater Scaup	466	498	320	374	1,253	1,034
Lesser Scaup	528	142	1,442	598	18,906	8,145
Ring-necked Duck	218	142	320	374	101,738	83,002
Goldeneyes	0	71	0	0	0	129
Bufflehead	186	249	961	1,869	1,253	2,456
Ruddy Duck	31	249	0	75	1,776	4,913
Long-tailed Duck	2,323	4,521	0	0	0	0
Eiders	0	0	0	0	0	0
Scoters	1,161	36	954	1,140	313	1,551
Hooded Merganser	311	284	641	1,794	836	776
Other Mergansers	591	284	481	75	418	388
Other Ducks	0	0	0	0	7,207	10,214
Total Duck Harvest	16,900±21%	19,200±41%	46,600±34%	42,500±12%	257,900±34%	212,700±28%
Total Active Duck Hunters ^a	1,900±19%	1,600±25%	4,100±10%	3,500±5%	16,300±19%	14,400±21%
Total Duck Hunter Days Afield ^a	11,900±22%	11,600±42%	31,000±16%	23,400±9%	87,600±28%	93,100±29%
Seasonal Duck Harvest Per Hunter ^a	7.0±29%	9.3±48%	11.1±35%	11.7±13%	15.8±39%	14.8±35%
Goose Species Composition						
Canada Goose	7,912	8,648	14,571	17,894	521	1,700
Snow Goose	0	0	6,969	8,947	0	0
Blue Goose	0	0	0	286	1,464	0
Ross' Goose	0	0	0	0	0	0
White-fronted Goose	0	0	0	0	0	0
Brant	264	0	520	239	0	0
Other Geese	0	0	0	0	0	0
Total Goose Harvest	8,200±40%	8,600±39%	22,100±29%	27,400±13%	2,000±94%	1,700±158%
Total Active Goose Hunters ^b	1,300±24%	1,600±26%	3,500±11%	3,500±6%	800±87%	900±87%
Total Goose Hunter Days Afield ^b	7,000±27%	8,200±38%	22,000±15%	22,300±10%	4,100±103%	1,700±94%
Seasonal Goose Harvest Per Hunter ^b	6.1±47%	5.5±47%	6.1±31%	7.7±14%	1.8±128%	1.9±14%
Active Waterfowl Hunters ^c	2,500±16%	2,300±21%	5,100±8%	4,500±5%	16,600±19%	14,400±21%
Sample Sizes						
DuckWings	446	426	297	553	2,469	1,645
GooseTails	233	315	176	286	3	0

Table 1A. Preliminary estimates of waterfowl harvest and hunter activity in the Atlantic Flyway during the 2012 and 2013 hunting seasons.

Duck Species Composition	Georgia		Maine		Maryland	
	2012	2013	2012	2013	2012	2013
Mallard	17,983	14,116	14,042	10,221	24,475	35,093
Domestic Mallard	0	291	73	67	1,349	792
Black Duck	353	146	3,347	3,474	3,662	9,499
Mallard x Black Hybrid	0	146	218	267	193	792
Mottled Duck	0	291	0	0	0	0
Gadwall	8,110	9,459	0	134	4,047	7,652
Wigeon	2,116	582	73	200	1,542	2,507
Green-winged Teal	9,873	9,459	2,328	4,609	5,396	6,596
Blue-winged/Cinnamon Teal	9,168	9,605	873	1,202	0	396
Northern Shoveler	1,058	291	0	0	193	2,639
Northern Pintail	0	437	0	267	578	1,187
Wood Duck	86,389	60,247	6,694	6,547	12,719	14,776
Redhead	3,879	2,619	0	0	578	132
Canvasback	0	728	0	0	1,734	4,617
Greater Scaup	0	0	73	67	4,432	5,673
Lesser Scaup	2,821	582	0	67	21,970	8,311
Ring-necked Duck	15,162	8,149	582	1,202	771	923
Goldeneyes	0	0	582	668	964	132
Bufflehead	353	873	655	601	23,897	13,984
Ruddy Duck	0	437	0	0	1,927	792
Long-tailed Duck	0	0	0	215	4,603	1,244
Eiders	0	0	5,169	3,115	0	0
Scoters	0	0	3,290	1,718	6,329	12,857
Hooded Merganser	5,289	3,638	1,528	1,069	1,349	2,243
Other Mergansers	0	0	364	267	385	923
Other Ducks	0	0	0	0	0	0
Total Duck Harvest	162,600±23%	122,100±33%	39,900±15%	36,000±31%	123,100±26%	133,800±15%
Total Active Duck Hunters ^a	16,400±16%	17,800±32%	5,300±10%	4,400±16%	16,800±12%	15,400±10%
Total Duck Hunter Days Afield ^a	98,300±20%	95,200±34%	28,800±12%	28,900±31%	92,100±20%	75,100±15%
Seasonal Duck Harvest Per Hunter ^a	9.9±28%	6.9±46%	5.9±18%	7.0±35%	6.7±28%	7.8±18%
Goose Species Composition						
Canada Goose	15,406	32,157	9,516	8,759	175,716	152,535
Snow Goose	331	0	59	43	12,713	10,176
Blue Goose	0	0	0	0	1,695	217
Ross' Goose	0	0	0	0	0	0
White-fronted Goose	0	0	0	0	0	0
Brant	0	0	0	0	1,292	116
Other Geese	166	0	0	0	0	0
Total Goose Harvest	15,900±38%	32,200±83%	9,600±32%	8,800±41%	191,400±14%	163,000±14%
Total Active Goose Hunters ^b	5,000±28%	8,300±51%	2,900±14%	3,000±21%	26,300±7%	21,800±8%
Total Goose Hunter Days Afield ^b	24,600±45%	28,000±59%	14,200±21%	14,000±50%	166,900±11%	130,000±13%
Seasonal Goose Harvest Per Hunter ^b	3.2±48%	3.9±97%	3.3±35%	2.9±46%	7.2±16%	7.5±16%
Active Waterfowl Hunters ^c	17,100±16%	18,000±32%	6,200±9%	5,500±15%	27,400±7%	28,900±6%
Sample Sizes						
DuckWings	461	839	450	510	620	941
GooseTails	96	163	163	205	681	1,506

Table 1A. Preliminary estimates of waterfowl harvest and hunter activity in the Atlantic Flyway during the 2012 and 2013 hunting seasons.

Duck Species Composition	Massachusetts		New Hampshire		New Jersey	
	2012	2013	2012	2013	2012	2013
Mallard	5,054	4,994	4,818	5,780	12,344	15,480
Domestic Mallard	61	0	71	75	201	78
Black Duck	2,179	2,669	1,559	2,177	16,659	12,196
Mallard x Black Hybrid	61	132	71	150	803	1,407
Mottled Duck	0	0	0	0	0	0
Gadwall	91	106	0	0	100	2,971
Wigeon	0	159	71	0	201	625
Green-winged Teal	666	476	1,134	1,126	6,624	5,863
Blue-winged/Cinnamon Teal	121	53	142	150	301	235
Northern Shoveler	0	0	0	0	301	469
Northern Pintail	61	26	0	75	100	469
Wood Duck	2,452	2,563	4,322	6,681	9,534	5,942
Redhead	0	0	0	0	0	0
Canvasback	0	0	0	0	0	0
Greater Scaup	272	159	0	0	803	938
Lesser Scaup	545	79	0	75	1,305	1,329
Ring-necked Duck	272	26	0	75	100	391
Goldeneyes	545	106	0	75	0	0
Bufflehead	3,238	1,004	1,204	375	17,061	15,870
Ruddy Duck	0	26	0	0	803	313
Long-tailed Duck	381	175	0	200	5,571	1,988
Eiders	5,797	3,543	296	200	0	0
Scoters	508	131	1,332	1,333	2,243	3,267
Hooded Merganser	757	370	638	450	2,308	1,564
Other Mergansers	1,211	555	213	75	903	1,564
Other Ducks	0	0	0	0	0	0
Total Duck Harvest	24,300±15%	17,400±20%	15,900±26%	19,100±23%	78,300±15%	73,000±18%
Total Active Duck Hunters ^a	2,800±17%	3,300±20%	2,500±16%	3,000±19%	7,300±9%	7,400±11%
Total Duck Hunter Days Afield ^a	15,400±16%	18,200±27%	16,000±21%	21,700±41%	47,000±13%	48,800±15%
Seasonal Duck Harvest Per Hunter ^a	6.4±22%	4.1±28%	5.8±30%	5.8±29%	9.7±17%	9.2±21%
Goose Species Composition						
Canada Goose	10,806	7,107	4,824	6,022	36,046	51,666
Snow Goose	0	15	0	0	4,711	1,265
Blue Goose	0	0	0	0	0	0
Ross' Goose	0	0	0	0	0	0
White-fronted Goose	0	0	0	0	0	0
Brant	896	131	65	0	8,787	4,611
Other Geese	0	0	0	70	0	0
Total Goose Harvest	11,700±26%	7,300±28%	4,900±23%	6,100±27%	49,500±30%	57,500±35%
Total Active Goose Hunters ^b	2,300±16%	2,400±22%	1,900±18%	2,100±22%	4,900±11%	6,500±12%
Total Goose Hunter Days Afield ^b	13,000±18%	10,200±29%	11,700±24%	11,500±23%	26,400±17%	35,000±20%
Seasonal Goose Harvest Per Hunter ^b	4.6±30%	3.0±36%	2.6±30%	2.8±35%	8.3±32%	8.2±37%
Active Waterfowl Hunters ^c	4,200±13%	4,400±16%	2,800±15%	3,600±18%	9,200±7%	10,200±9%
Sample Sizes						
DuckWings	639	599	212	257	721	903
GooseTails	337	486	76	88	340	332

Table 1A. Preliminary estimates of waterfowl harvest and hunter activity in the Atlantic Flyway during the 2012 and 2013 hunting seasons.

Duck Species Composition	New York		North Carolina		Pennsylvania	
	2012	2013	2012	2013	2012	2013
Mallard	86,131	91,543	42,303	24,439	37,947	38,476
Domestic Mallard	991	440	516	0	279	297
Black Duck	16,758	18,203	3,095	2,125	5,487	6,842
Mallard x Black Hybrid	901	1,407	774	213	651	892
Mottled Duck	0	0	0	0	0	0
Gadwall	2,162	4,397	15,993	20,401	2,232	3,570
Wigeon	3,243	5,364	5,417	16,151	558	397
Green-winged Teal	13,424	10,728	28,632	22,101	4,092	5,851
Blue-winged/Cinnamon Teal	1,622	1,671	11,607	5,738	1,302	397
Northern Shoveler	1,081	1,231	11,092	6,588	372	0
Northern Pintail	1,802	4,485	5,159	8,500	279	99
Wood Duck	18,830	22,600	119,686	77,354	22,136	22,511
Redhead	811	6,947	9,028	10,413	279	397
Canvasback	270	176	258	2,338	0	99
Greater Scaup	5,226	5,364	3,869	2,338	279	3,173
Lesser Scaup	7,748	3,605	78,415	28,689	1,674	1,983
Ring-necked Duck	2,433	2,990	22,957	14,663	744	793
Goldeneyes	8,739	8,178	0	0	558	1,190
Bufflehead	11,893	10,025	16,766	11,688	6,604	3,570
Ruddy Duck	270	352	3,095	3,188	744	496
Long-tailed Duck	8,749	6,753	0	213	0	99
Eiders	90	357	0	0	0	0
Scoters	8,209	9,274	4,127	5,738	0	297
Hooded Merganser	2,342	2,286	7,996	15,088	1,860	2,677
Other Mergansers	5,135	4,221	3,353	1,700	3,720	3,471
Other Ducks	0	0	258	0	0	99
Total Duck Harvest	208,900±13%	222,600±20%	394,400±18%	279,700±17%	91,800±19%	97,700±22%
Total Active Duck Hunters ^a	18,200±8%	20,500±10%	39,400±15%	26,400±17%	21,300±20%	20,200±21%
Total Duck Hunter Days Afield ^a	112,000±11%	117,400±13%	227,800±21%	165,000±17%	92,100±20%	98,500±22%
Seasonal Duck Harvest Per Hunter ^a	10.6±16%	10.2±22%	10.0±24%	10.6±24%	4.3±27%	4.8±30%
Goose Species Composition						
Canada Goose	135,868	136,230	73,676	55,906	104,019	103,934
Snow Goose	1,414	3,525	0	0	11,235	5,103
Blue Goose	0	476	0	0	362	249
Ross' Goose	0	0	0	0	0	0
White-fronted Goose	0	0	0	0	0	124
Brant	9,489	4,474	3,789	874	0	0
Other Geese	0	0	0	0	121	0
Total Goose Harvest	146,800±16%	144,700±21%	77,500±60%	56,800±44%	115,700±19%	109,400±26%
Total Active Goose Hunters ^b	16,200±8%	17,400±10%	17,100±24%	14,000±27%	26,300±16%	21,800±17%
Total Goose Hunter Days Afield ^b	94,500±12%	101,300±16%	80,800±49%	56,600±36%	119,500±17%	114,200±20%
Seasonal Goose Harvest Per Hunter ^b	8.5±18%	8.1±23%	4.3±64%	4.0±52%	4.4±25%	5.0±31%
Active Waterfowl Hunters ^c	23,500±7%	26,200±8%	42,300±15%	27,700±17%	36,100±15%	36,000±16%
Sample Sizes						
DuckWings	2,142	2,415	1,529	1,316	987	985
GooseTails	1,243	1,524	87	63	958	879

Table 1A. Preliminary estimates of waterfowl harvest and hunter activity in the Atlantic Flyway during the 2012 and 2013 hunting seasons.

Duck Species Composition	Rhode Island		South Carolina		Vermont	
	2012	2013	2012	2013	2012	2013
Mallard	635	1,477	19,780	18,052	9,808	12,659
Domestic Mallard	0	0	1,846	792	0	0
Black Duck	1,069	1,403	527	792	2,206	2,640
Mallard x Black Hybrid	33	49	0	0	89	60
Mottled Duck	0	0	0	792	0	0
Gadwall	33	443	5,011	9,659	89	120
Wigeon	67	246	2,637	1,584	89	60
Green-winged Teal	33	98	11,341	14,885	2,415	4,200
Blue-winged/Cinnamon Teal	0	0	9,231	3,484	149	720
Northern Shoveler	0	0	6,857	6,334	60	60
Northern Pintail	0	25	527	2,534	239	60
Wood Duck	0	320	116,308	72,050	3,279	5,040
Redhead	0	0	791	950	0	0
Canvasback	0	0	264	158	0	0
Greater Scaup	702	1,256	264	317	0	240
Lesser Scaup	368	369	12,132	3,800	119	660
Ring-necked Duck	0	49	26,637	17,102	179	720
Goldeneyes	167	468	0	0	656	3,240
Bufflehead	869	960	4,484	1,108	209	360
Ruddy Duck	167	0	3,429	2,217	0	0
Long-tailed Duck	20	20	0	0	30	0
Eiders	372	563	0	0	0	0
Scoters	176	261	3,165	0	268	300
Hooded Merganser	167	542	8,967	4,276	149	360
Other Mergansers	535	1,059	791	158	477	420
Other Ducks	0	0	527	317	0	0
Total Duck Harvest	5,400±23%	9,600±42%	235,500±30%	161,400±42%	20,500±15%	31,900±22%
Total Active Duck Hunters^a	500±17%	900±14%	20,500±19%	16,700±22%	2,100±11%	4,000±16%
Total Duck Hunter Days Afield^a	3,600±22%	6,600±23%	133,500±26%	121,400±41%	14,200±15%	22,400±22%
Seasonal Duck Harvest Per Hunter^a	10.6±29%	9.5±44%	11.5±35%	9.6±47%	9.8±19%	8.0±27%
Goose Species Composition						
Canada Goose	1,531	4,715	39,744	17,170	8,566	9,591
Snow Goose	0	45	0	0	34	0
Blue Goose	0	0	0	0	0	0
Ross' Goose	0	0	0	0	0	0
White-fronted Goose	0	0	0	0	0	0
Brant	387	224	0	0	204	40
Other Geese	0	0	0	0	0	0
Total Goose Harvest	1,900±28%	5,000±55%	39,700±101%	17,200±60%	8,800±29%	9,600±31%
Total Active Goose Hunters^b	400±21%	800±18%	5,900±34%	5,500±38%	1,700±13%	2,600±19%
Total Goose Hunter Days Afield^b	2,100±20%	4,900±23%	28,700±55%	38,700±79%	9,100±18%	12,500±27%
Seasonal Goose Harvest Per Hunter^b	3.8±35%	6.2±58%	6.8±106%	3.1±71%	5.3±31%	3.7±36%
Active Waterfowl Hunters^c	600±15%	1,100±12%	21,200±19%	17,100±22%	2,700±10%	4,600±15%
Sample Sizes						
DuckWings	174	398	893	1,019	688	532
GooseTails	140	124	34	50	259	240

Table 1A. Preliminary estimates of waterfowl harvest and hunter activity in the Atlantic Flyway during the 2012 and 2013 hunting seasons.

Duck Species Composition	Virginia		West Virginia		Flyway Total	
	2012	2013	2012	2013	2012	2013
Mallard	25,265	33,191	6,063	3,750	325,487	328,029
Domestic Mallard	0	108	89	68	5,844	3,208
Black Duck	9,534	5,946	981	473	73,871	75,104
Mallard x Black Hybrid	1,112	432	268	135	5,779	6,964
Mottled Duck	0	0	0	0	7,939	10,133
Gadwall	7,468	16,974	268	304	49,318	80,107
Wigeon	3,655	1,946	0	68	23,837	35,022
Green-winged Teal	13,665	8,000	0	372	124,683	113,113
Blue-winged/Cinnamon Teal	2,542	1,189	0	68	108,568	75,663
Northern Shoveler	2,066	1,514	0	0	33,027	27,862
Northern Pintail	953	1,730	0	101	12,609	21,367
Wood Duck	20,498	17,190	1,873	946	445,354	326,423
Redhead	477	2,162	0	68	19,394	35,902
Canvasback	318	3,892	0	68	3,903	13,111
Greater Scaup	1,271	1,730	0	68	19,231	23,227
Lesser Scaup	5,085	1,946	0	34	153,057	60,416
Ring-necked Duck	7,468	12,865	0	34	179,582	143,503
Goldeneyes	477	432	0	0	12,687	14,689
Bufflehead	25,583	19,893	357	68	115,572	84,955
Ruddy Duck	2,066	1,297	89	0	14,397	14,353
Long-tailed Duck	0	874	0	0	21,677	16,302
Eiders	0	0	0	0	11,725	7,778
Scoters	6,343	2,184	0	0	38,419	38,947
Hooded Merganser	3,972	3,892	89	101	39,200	41,411
Other Mergansers	318	649	268	101	19,162	15,910
Other Ducks	0	0	0	0	7,993	10,630
Total Duck Harvest	140,100±29%	140,000±20%	10,300±44%	6,800±55%	1,872,300±8%	1,624,100±8%
Total Active Duck Hunters^a	15,600±16%	14,400±18%	1,100±19%	800±28%	192,100	174,700
Total Duck Hunter Days Afield^a	86,100±18%	83,800±20%	6,800±31%	5,200±49%	1,104,200±7%	1,036,100±8%
Seasonal Duck Harvest Per Hunter^a	8.6±33%	9.5±27%	9.1±48%	8.1±62%		
Goose Species Composition						
Canada Goose	51,735	57,812	5,763	4,885	696,220	675,031
Snow Goose	263	136	0	0	37,729	29,255
Blue Goose	0	0	0	0	3,522	1,227
Ross' Goose	0	0	0	0	0	0
White-fronted Goose	0	0	0	0	0	124
Brant	1,857	1,214	0	0	27,550	11,922
Other Geese	0	0	0	0	286	70
Total Goose Harvest	53,900±22%	59,200±24%	5,800±67%	4,900±52%	765,300±10%	717,600±9%
Total Active Goose Hunters^b	13,400±16%	13,500±17%	1,000±20%	800±29%	130,900	126,500
Total Goose Hunter Days Afield^b	65,300±18%	58,900±21%	5,800±40%	3,700±41%	695,500±8%	651,700±8%
Seasonal Goose Harvest Per Hunter^b	3.9±27%	4.3±29%	6.0±70%	6.1±59%		
Active Waterfowl Hunters^c	19,300±14%	19,700±15%	1,300±18%	900±27%	238,100	224,900
Sample Sizes						
DuckWings	844	1,295	116	202	13,688	14,835
GooseTails	409	428	65	161	5,300	6,850

Table 1B. Preliminary estimates of waterfowl harvest and hunter activity in the Mississippi Flyway during the 2012 and 2013 hunting seasons.

Duck Species Composition	Alabama		Arkansas		Illinois	
	2012	2013	2012	2013	2012	2013
Mallard	14,151	22,040	529,529	422,951	197,579	177,474
Domestic Mallard	0	212	460	260	0	0
Black Duck	0	212	920	260	1,889	476
Mallard x Black Hybrid	0	0	0	0	0	952
Mottled Duck	0	0	0	0	0	0
Gadwall	49,866	44,292	224,969	184,343	32,867	37,588
Wigeon	0	2,755	34,965	12,463	2,644	4,758
Green-winged Teal	10,108	13,139	214,388	123,328	33,623	32,830
Blue-winged/Cinnamon Teal	27,628	15,470	25,763	4,673	24,178	17,129
Northern Shoveler	8,760	4,238	130,197	70,881	24,934	23,790
Northern Pintail	674	1,060	34,044	31,157	5,289	8,564
Wood Duck	52,561	62,942	62,108	50,889	20,778	58,999
Redhead	1,348	5,722	6,441	5,452	4,911	2,855
Canvasback	2,695	5,934	1,380	3,895	4,911	4,282
Greater Scaup	2,022	212	3,220	1,039	3,400	476
Lesser Scaup	12,129	1,695	25,763	1,558	19,267	3,331
Ring-necked Duck	22,237	9,749	25,763	13,242	10,956	11,419
Goldeneyes	0	636	460	0	3,022	2,379
Bufflehead	2,695	2,119	2,300	1,298	6,800	3,806
Ruddy Duck	2,695	212	920	0	2,267	0
Long-tailed Duck	0	0	0	260	0	0
Eiders	0	0	0	0	0	0
Scoters	1,348	212	0	260	0	0
Hooded Merganser	0	2,331	4,601	5,193	1,889	3,806
Other Mergansers	0	0	460	0	0	1,903
Other Ducks	0	0	0	260	0	0
Total Duck Harvest	210,900±24%	195,200±25%	1,328,700±13%	933,700±17%	401,200±23%	396,800±18%
Total Active Duck Hunters^a	17,000±18%	17,000±19%	57,300±9%	44,900±11%	26,200±11%	28,500±12%
Total Duck Hunter Days Afield^a	104,300±21%	98,900±32%	472,000±11%	305,200±15%	265,600±16%	248,600±17%
Seasonal Duck Harvest Per Hunter^a	12.4±29%	11.5±31%	23.2±16%	20.8±20%	15.3±25%	13.9±22%
Goose Species Composition						
Canada Goose	19,729	30,927	9,455	13,552	92,719	111,185
Snow Goose	0	0	39,079	63,243	4,560	950
Blue Goose	0	0	17,018	31,621	2,280	475
Ross' Goose	0	0	3,782	3,614	0	0
White-fronted Goose	0	0	46,642	72,278	760	5,227
Brant	0	0	0	0	0	0
Other Geese	0	0	0	0	0	0
Total Goose Harvest	19,700±62%	30,900±96%	116,000±25%	184,300±54%	100,300±28%	117,800±23%
Total Active Goose Hunters^b	6,200±31%	6,000±34%	20,300±15%	14,100±20%	19,600±13%	23,100±15%
Total Goose Hunter Days Afield^b	24,000±40%	30,100±54%	116,100±20%	73,100±26%	179,000±21%	173,100±21%
Seasonal Goose Harvest Per Hunter^b	3.2±69%	5.1±102%	5.7±29%	13.1±58%	5.1±31%	5.1±27%
Active Waterfowl Hunters^c	17,800±17%	17,300±19%	57,700±9%	45,700±11%	31,100±10%	34,100±11%
Sample Sizes						
DuckWings	313	921	2,888	3,596	1,062	834
GooseTails	6	21	184	204	264	248

Table 1B. Preliminary estimates of waterfowl harvest and hunter activity in the Mississippi Flyway during the 2012 and 2013 hunting seasons.

Duck Species Composition	Indiana		Iowa		Kentucky	
	2012	2013	2012	2013	2012	2013
Mallard	78,021	63,029	49,993	66,628	24,594	71,651
Domestic Mallard	0	275	0	0	0	0
Black Duck	3,901	2,334	180	0	1,097	4,869
Mallard x Black Hybrid	0	412	0	0	313	1,391
Mottled Duck	0	0	0	0	0	0
Gadwall	10,620	6,042	6,136	13,817	5,169	10,435
Wigeon	1,734	1,099	722	3,685	627	696
Green-winged Teal	6,935	6,591	12,995	19,344	470	2,783
Blue-winged/Cinnamon Teal	4,985	3,433	14,799	42,679	313	696
Northern Shoveler	5,852	1,785	3,610	5,527	1,410	1,391
Northern Pintail	2,167	1,099	1,624	4,606	0	696
Wood Duck	8,669	10,024	18,229	35,924	3,916	8,348
Redhead	650	961	2,527	3,070	313	696
Canvasback	433	549	1,263	921	0	0
Greater Scaup	0	137	0	0	0	3,478
Lesser Scaup	650	0	2,346	1,535	1,410	6,956
Ring-necked Duck	3,034	961	541	2,456	1,723	696
Goldeneyes	433	137	180	0	313	4,174
Bufflehead	650	824	1,985	921	313	696
Ruddy Duck	217	275	0	0	0	0
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	1,517	412	541	1,228	313	5,565
Other Mergansers	867	0	0	0	0	0
Other Ducks	217	0	0	0	0	0
Total Duck Harvest	131,600±17%	100,400±17%	117,700±23%	202,300±26%	42,300±65%	125,200±53%
Total Active Duck Hunters^a	12,000±13%	9,000±13%	12,500±16%	14,400±18%	4,100±56%	10,700±37%
Total Duck Hunter Days Afield^a	96,400±14%	71,200±15%	69,700±21%	128,500±30%	28,600±67%	68,500±53%
Seasonal Duck Harvest Per Hunter^a	11.0±21%	11.1±21%	9.4±28%	14.1±32%	10.2±86%	11.7±64%
Goose Species Composition						
Canada Goose	60,036	54,936	38,931	73,742	6,641	40,860
Snow Goose	0	0	0	0	341	0
Blue Goose	0	0	138	0	0	0
Ross' Goose	366	0	0	0	170	0
White-fronted Goose	0	0	275	0	170	0
Brant	0	0	0	0	0	0
Other Geese	0	0	0	0	0	0
Total Goose Harvest	60,400±26%	54,900±20%	39,300±33%	73,700±35%	7,300±74%	40,900±71%
Total Active Goose Hunters^b	10,800±13%	9,600±11%	7,900±20%	11,200±23%	3,700±62%	9,100±37%
Total Goose Hunter Days Afield^b	68,100±16%	68,000±15%	54,600±42%	99,100±35%	22,300±72%	84,200±63%
Seasonal Goose Harvest Per Hunter^b	5.6±30%	5.7±23%	5.0±38%	6.6±42%	2.0±96%	4.5±80%
Active Waterfowl Hunters^c	14,300±12%	10,200±12%	13,800±15%	15,900±18%	4,100±57%	11,600±35%
Sample Sizes						
DuckWings	607	731	652	659	270	180
GooseTails	165	188	286	141	43	19

Table 1B. Preliminary estimates of waterfowl harvest and hunter activity in the Mississippi Flyway during the 2012 and 2013 hunting seasons.

Duck Species Composition	Louisiana		Michigan		Minnesota	
	2012	2013	2012	2013	2012	2013
Mallard	164,994	130,935	127,535	114,844	197,316	166,366
Domestic Mallard	0	0	0	185	0	0
Black Duck	1,406	775	6,712	8,150	587	0
Mallard x Black Hybrid	0	387	814	556	587	0
Mottled Duck	40,311	35,639	0	0	0	0
Gadwall	687,161	484,615	5,492	6,483	18,792	15,254
Wigeon	61,404	36,801	3,458	3,890	9,983	4,767
Green-winged Teal	447,639	431,157	16,476	17,968	56,376	33,368
Blue-winged/Cinnamon Teal	575,134	633,758	7,933	3,705	123,322	115,360
Northern Shoveler	118,589	146,431	1,424	2,223	15,856	15,731
Northern Pintail	72,185	66,630	7,729	7,409	5,285	8,104
Wood Duck	166,869	158,439	59,394	28,341	184,396	149,681
Redhead	28,124	46,486	18,307	17,968	22,315	19,544
Canvasback	27,186	36,801	3,458	2,408	4,111	8,104
Greater Scaup	6,562	1,162	10,374	8,335	2,936	3,814
Lesser Scaup	194,524	20,919	8,340	11,855	17,617	10,011
Ring-necked Duck	145,776	134,034	6,509	6,113	75,755	31,938
Goldeneyes	469	775	3,661	7,409	4,111	1,430
Bufflehead	4,219	3,099	23,392	34,268	3,523	14,777
Ruddy Duck	4,219	1,162	1,627	1,297	2,349	0
Long-tailed Duck	0	387	1,627	3,519	0	0
Eiders	0	0	0	0	0	0
Scoters	0	0	2,237	1,297	0	0
Hooded Merganser	12,187	9,685	1,220	3,149	4,111	9,057
Other Mergansers	0	2,324	2,441	4,816	0	0
Other Ducks	3,750	8,135	0	0	0	477
Total Duck Harvest	2,762,700±8%	2,390,500±21%	320,200±15%	296,200±26%	749,300±13%	607,800±14%
Total Active Duck Hunters ^a	103,600±5%	77,600±14%	37,200±11%	31,800±15%	77,700±9%	52,200±11%
Total Duck Hunter Days Afield ^a	916,300±8%	766,200±19%	229,900±16%	197,300±22%	503,200±12%	312,100±12%
Seasonal Duck Harvest Per Hunter ^a	26.7±10%	30.8±25%	8.6±18%	9.3±30%	9.6±16%	11.6±18%
Goose Species Composition						
Canada Goose	571	0	144,481	148,002	235,856	191,577
Snow Goose	6,852	8,389	222	244	0	0
Blue Goose	16,559	5,942	0	0	870	0
Ross' Goose	2,284	1,049	0	0	0	0
White-fronted Goose	27,978	20,973	0	0	0	0
Brant	0	0	0	0	0	0
Other Geese	0	0	0	0	0	0
Total Goose Harvest	54,200±26%	36,400±50%	144,700±18%	148,200±35%	236,700±16%	191,600±19%
Total Active Goose Hunters ^b	9,300±20%	7,200±45%	31,900±11%	26,400±18%	58,900±10%	42,400±14%
Total Goose Hunter Days Afield ^b	47,100±25%	60,200±67%	183,300±15%	159,900±25%	355,400±14%	239,500±19%
Seasonal Goose Harvest Per Hunter ^b	5.8±33%	5.0±68%	4.5±21%	5.6±39%	4.0±19%	4.5±24%
Active Waterfowl Hunters ^c	103,900±5%	77,600±14%	44,200±10%	37,500±14%	90,600±8%	58,600±11%
Sample Sizes						
DuckWings	5,894	6,171	1,574	1,599	1,276	1,275
GooseTails	95	104	652	608	272	264

Table 1B. Preliminary estimates of waterfowl harvest and hunter activity in the Mississippi Flyway during the 2012 and 2013 hunting seasons.

Duck Species Composition	Mississippi		Missouri		Ohio	
	2012	2013	2012	2013	2012	2013
Mallard	59,911	91,048	189,411	200,700	44,567	104,630
Domestic Mallard	0	0	0	0	186	345
Black Duck	422	245	230	0	3,170	5,525
Mallard x Black Hybrid	0	0	0	290	186	1,381
Mottled Duck	422	736	0	0	0	0
Gadwall	69,193	61,844	74,707	67,769	6,713	9,323
Wigeon	2,953	5,890	9,884	7,240	3,170	2,072
Green-winged Teal	32,909	34,848	48,962	65,162	6,713	16,575
Blue-winged/Cinnamon Teal	16,876	11,289	50,801	39,677	7,459	6,906
Northern Shoveler	32,065	31,658	30,113	24,617	3,170	5,870
Northern Pintail	6,751	3,190	11,264	11,005	1,865	5,525
Wood Duck	54,848	50,555	13,792	13,612	15,664	19,683
Redhead	2,531	491	1,839	2,027	1,678	3,108
Canvasback	844	1,472	919	290	0	345
Greater Scaup	0	0	0	290	1,305	2,072
Lesser Scaup	3,797	982	2,069	5,503	2,797	7,597
Ring-necked Duck	14,345	4,908	6,206	6,371	1,865	2,417
Goldeneyes	0	0	0	0	373	1,036
Bufflehead	1,266	245	1,379	290	1,678	3,798
Ruddy Duck	1,266	0	919	579	1,865	2,763
Long-tailed Duck	0	0	0	0	0	0
Eiders	0	0	0	0	0	0
Scoters	0	0	230	0	0	0
Hooded Merganser	6,329	1,472	919	1,158	1,678	1,036
Other Mergansers	0	0	1,149	0	559	691
Other Ducks	0	0	230	0	186	0
Total Duck Harvest	306,700±17%	300,900±17%	445,000±24%	446,600±23%	106,800±25%	202,700±18%
Total Active Duck Hunters^a	14,000±15%	15,100±16%	35,400±13%	25,500±14%	12,500±20%	22,400±19%
Total Duck Hunter Days Afield^a	100,900±13%	96,300±15%	213,600±19%	193,700±22%	89,400±26%	165,800±19%
Seasonal Duck Harvest Per Hunter^a	22.0±22%	19.9±23%	12.6±27%	17.5±27%	8.5±32%	9.1±26%
Goose Species Composition						
Canada Goose	5,286	7,181	39,117	35,094	59,375	128,515
Snow Goose	0	3,590	9,601	9,172	0	0
Blue Goose	0	0	5,690	7,976	0	0
Ross' Goose	1,762	0	356	1,595	0	0
White-fronted Goose	5,286	22,440	2,134	798	0	0
Brant	0	0	0	0	0	0
Other Geese	0	0	0	0	0	0
Total Goose Harvest	12,300±41%	33,200±60%	56,900±35%	54,600±29%	59,400±30%	128,500±18%
Total Active Goose Hunters^b	3,400±31%	4,800±32%	14,000±19%	11,400±19%	11,200±19%	23,500±18%
Total Goose Hunter Days Afield^b	11,700±31%	23,500±38%	69,400±26%	58,800±30%	86,100±22%	160,300±23%
Seasonal Goose Harvest Per Hunter^b	3.6±52%	6.9±68%	4.1±40%	4.8±35%	5.3±35%	5.5±25%
Active Waterfowl Hunters^c	14,000±15%	15,100±16%	38,700±12%	27,400±13%	15,300±18%	26,400±18%
Sample Sizes						
DuckWings	727	1,226	1,936	1,542	573	587
GooseTails	7	37	160	137	356	337

Table 1B. Preliminary estimates of waterfowl harvest and hunter activity in the Mississippi Flyway during the 2012 and 2013 hunting seasons.

Duck Species Composition	Tennessee		Wisconsin		Flyway Total	
	2012	2013	2012	2013	2012	2013
Mallard	92,700	94,094	112,251	110,610	1,882,553	1,837,000
Domestic Mallard	0	0	0	0	647	1,277
Black Duck	0	1,045	174	1,058	20,688	24,951
Mallard x Black Hybrid	0	0	174	265	2,074	5,633
Mottled Duck	0	0	0	0	40,733	36,375
Gadwall	37,080	49,138	11,468	18,523	1,240,234	1,009,467
Wigeon	1,766	3,136	3,823	6,351	137,133	95,602
Green-winged Teal	13,243	27,183	31,625	24,080	932,461	848,357
Blue-winged/Cinnamon Teal	15,891	2,091	37,012	46,043	932,096	942,908
Northern Shoveler	13,243	16,728	1,911	4,498	391,133	355,369
Northern Pintail	4,414	2,091	3,301	3,969	156,593	155,104
Wood Duck	51,206	23,001	67,594	104,524	780,024	774,961
Redhead	1,766	1,045	6,429	12,172	99,179	121,598
Canvasback	883	1,045	3,997	10,055	52,081	76,103
Greater Scaup	1,766	0	9,383	28,049	40,968	49,064
Lesser Scaup	883	0	15,986	25,932	307,579	97,873
Ring-necked Duck	2,649	6,273	7,298	10,320	324,658	240,898
Goldeneyes	0	2,091	13,032	9,526	26,055	29,593
Bufflehead	883	0	16,334	22,228	67,418	88,370
Ruddy Duck	883	0	1,216	2,646	20,443	8,933
Long-tailed Duck	0	0	4,865	8,732	6,493	12,899
Eiders	0	0	0	0	0	0
Scoters	0	0	174	1,323	3,989	3,091
Hooded Merganser	9,711	0	869	1,323	45,886	45,416
Other Mergansers	0	0	1,738	3,440	7,214	13,174
Other Ducks	0	0	0	0	4,383	8,871
Total Duck Harvest	249,000±44%	229,000±56%	350,700±11%	455,700±16%	7,522,700±5%	6,882,900±8%
Total Active Duck Hunters^a	15,100±23%	9,600±35%	47,800±12%	53,100±15%	472,300	411,600
Total Duck Hunter Days Afield^a	105,500±26%	84,500±48%	309,800±15%	370,500±19%	3,505,200±4%	3,107,200±7%
Seasonal Duck Harvest Per Hunter^a	16.5±50%	23.9±66%	7.3±17%	8.6±22%		
Goose Species Composition						
Canada Goose	29,595	11,966	83,756	85,831	825,546	933,368
Snow Goose	0	499	0	0	60,654	86,087
Blue Goose	0	997	0	256	42,554	47,268
Ross' Goose	0	0	0	0	8,720	6,258
White-fronted Goose	0	499	0	256	83,245	122,469
Brant	0	0	0	0	0	0
Other Geese	0	0	0	0	0	0
Total Goose Harvest	29,600±52%	14,000±52%	83,800±17%	86,300±22%	1,020,700±7%	1,195,500±12%
Total Active Goose Hunters^b	7,800±33%	4,600±49%	36,700±13%	30,000±16%	241,500	223,400
Total Goose Hunter Days Afield^b	63,500±56%	47,200±64%	240,300±19%	220,500±20%	1,520,900±7%	1,497,500±8%
Seasonal Goose Harvest Per Hunter^b	3.8±61%	3.0±72%	2.3±21%	2.9±27%		
Active Waterfowl Hunters^c	15,200±23%	9,600±35%	59,800±11%	58,300±14%	520,500	445,400
Sample Sizes						
DuckWings	282	219	2,018	1,722	20,072	21,262
GooseTails	16	28	495	337	3,001	2,673

Table 1C. Preliminary estimates of waterfowl harvest and hunter activity in the Central Flyway during the 2012 and 2013 hunting seasons.

Duck Species Composition	Colorado		Kansas		Nebraska	
	2012	2013	2012	2013	2012	2013
Mallard	43,152	44,511	78,157	94,432	94,630	82,415
Domestic Mallard	0	0	159	0	0	0
Black Duck	0	0	0	0	0	0
Mallard x Black Hybrid	0	0	0	0	0	0
Mottled Duck	0	0	0	0	0	0
Gadwall	7,492	16,514	32,473	34,188	8,893	15,257
Wigeon	5,394	10,936	7,959	9,460	7,782	8,737
Green-winged Teal	11,787	13,889	13,530	35,184	15,563	28,037
Blue-winged/Cinnamon Teal	8,291	11,921	21,330	48,627	16,258	35,340
Northern Shoveler	3,596	11,593	2,706	12,945	3,057	6,259
Northern Pintail	1,398	3,390	6,367	12,115	1,806	3,782
Wood Duck	599	1,312	1,114	2,655	973	2,608
Redhead	1,398	2,625	2,706	7,468	1,667	3,130
Canvasback	300	109	637	1,494	973	0
Greater Scaup	100	109	0	166	0	261
Lesser Scaup	300	1,422	1,751	996	1,112	1,174
Ring-necked Duck	1,598	2,734	3,661	4,149	1,251	1,304
Goldeneyes	899	1,859	955	664	973	782
Bufflehead	499	547	0	498	278	652
Ruddy Duck	200	219	159	498	0	130
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	0	109	796	332	139	391
Other Mergansers	899	437	159	0	139	130
Other Ducks	0	109	0	0	0	0
Total Duck Harvest	87,900±15%	124,300±18%	174,600±27%	265,900±23%	155,500±14%	190,400±17%
Total Active Duck Hunters ^a	11,100±15%	11,900±14%	12,700±16%	16,800±16%	13,600±15%	13,000±15%
Total Duck Hunter Days Afield ^a	57,400±18%	77,100±19%	90,900±21%	105,300±19%	93,100±13%	101,200±16%
Seasonal Duck Harvest Per Hunter ^a	7.9±21%	10.5±23%	13.7±31%	15.8±28%	11.4±21%	14.7±22%
Goose Species Composition						
Canada Goose	94,111	99,945	72,204	108,657	97,777	111,033
Snow Goose	3,137	3,543	8,677	17,697	14,193	13,713
Blue Goose	224	0	1,240	3,539	1,051	5,308
Ross' Goose	224	1,492	3,719	6,017	263	2,875
White-fronted Goose	448	559	7,127	15,927	526	664
Brant	0	0	0	0	0	0
Other Geese	0	0	0	0	0	0
Total Goose Harvest	98,100±18%	105,500±16%	93,000±27%	151,800±29%	113,800±21%	133,600±22%
Total Active Goose Hunters ^b	13,900±14%	14,300±14%	11,200±17%	15,500±16%	14,300±13%	13,400±13%
Total Goose Hunter Days Afield ^b	84,900±18%	89,600±19%	73,100±20%	88,400±21%	104,300±14%	95,900±15%
Seasonal Goose Harvest Per Hunter ^b	7.1±23%	7.4±21%	8.3±31%	9.8±33%	7.9±25%	10.0±25%
Active Waterfowl Hunters ^c	18,300±12%	19,000±12%	14,900±15%	21,700±14%	18,600±12%	17,600±12%
Sample Sizes						
DuckWings	880	1,137	1,097	1,602	1,119	1,460
GooseTails	438	566	300	429	433	604

Table 1C. Preliminary estimates of waterfowl harvest and hunter activity in the Central Flyway during the 2012 and 2013 hunting seasons.

Duck Species Composition	New Mexico		North Dakota		Oklahoma	
	2012	2013	2012	2013	2012	2013
Mallard	16,836	13,892	187,963	178,721	118,526	134,470
Domestic Mallard	0	0	0	0	162	0
Black Duck	0	0	0	0	0	0
Mallard x Black Hybrid	0	0	0	0	0	0
Mottled Duck	0	0	0	0	0	0
Gadwall	1,999	5,461	60,668	65,052	84,037	96,304
Wigeon	3,536	6,826	13,903	13,792	33,032	32,175
Green-winged Teal	2,383	3,694	36,293	26,320	39,509	33,728
Blue-winged/Cinnamon Teal	846	3,614	30,695	58,271	14,411	13,092
Northern Shoveler	846	1,847	27,626	30,227	10,363	17,086
Northern Pintail	2,153	2,248	21,126	24,136	7,448	9,320
Wood Duck	231	642	2,347	2,988	972	3,107
Redhead	461	402	23,834	27,699	6,315	7,545
Canvasback	77	161	8,306	7,471	2,429	3,107
Greater Scaup	0	0	181	115	0	888
Lesser Scaup	154	0	27,987	13,677	4,210	3,994
Ring-necked Duck	0	241	9,209	6,206	16,840	13,314
Goldeneyes	77	161	2,167	805	1,781	222
Bufflehead	0	161	2,347	5,977	648	444
Ruddy Duck	0	241	2,167	2,184	0	444
Long-tailed Duck	0	0	0	0	0	0
Eiders	0	0	0	0	0	0
Scoters	0	0	181	0	0	0
Hooded Merganser	0	80	1,444	3,103	1,295	1,331
Other Mergansers	0	161	0	0	0	222
Other Ducks	231	562	903	0	162	0
Total Duck Harvest	29,800±21%	40,400±68%	459,300±9%	466,700±9%	342,100±29%	370,800±18%
Total Active Duck Hunters^a	3,300±29%	2,100±42%	31,400±6%	32,100±8%	13,900±12%	18,800±12%
Total Duck Hunter Days Afield^a	17,000±26%	13,500±46%	160,200±9%	161,200±8%	112,200±19%	127,800±17%
Seasonal Duck Harvest Per Hunter^a	9.0±36%	19.0±80%	14.6±11%	14.6±11%	24.6±31%	19.8±21%
Goose Species Composition						
Canada Goose	9,338	6,279	147,215	168,521	40,827	75,625
Snow Goose	789	0	17,319	13,158	5,691	14,750
Blue Goose	0	0	10,542	15,378	247	2,682
Ross' Goose	1,052	0	6,024	951	742	3,486
White-fronted Goose	0	0	3,765	1,585	2,474	3,218
Brant	0	0	0	0	0	0
Other Geese	0	0	0	0	0	0
Total Goose Harvest	11,200±60%	6,300±97%	184,900±16%	199,600±15%	50,000±48%	99,800±41%
Total Active Goose Hunters^b	2,900±33%	2,000±47%	25,200±7%	24,800±9%	7,700±16%	9,900±17%
Total Goose Hunter Days Afield^b	13,700±64%	8,400±77%	113,200±9%	117,500±11%	37,400±26%	49,400±24%
Seasonal Goose Harvest Per Hunter^b	3.9±69%	3.1±108%	7.3±18%	8.0±18%	6.5±51%	10.1±44%
Active Waterfowl Hunters^c	4,700±26%	3,100±38%	35,800±6%	36,200±7%	14,600±12%	20,200±12%
Sample Sizes						
DuckWings	388	503	2,544	4,061	2,113	1,671
GooseTails	85	94	491	1,259	202	372

Table 1C. Preliminary estimates of waterfowl harvest and hunter activity in the Central Flyway during the 2012 and 2013 hunting seasons.

Duck Species Composition	South Dakota		Texas		Wyoming	
	2012	2013	2012	2013	2012	2013
Mallard	99,769	81,098	92,801	68,282	25,457	33,306
Domestic Mallard	0	0	283	460	0	0
Black Duck	0	133	0	0	0	0
Mallard x Black Hybrid	0	0	0	0	0	0
Mottled Duck	0	0	13,015	3,219	0	0
Gadwall	29,082	19,511	310,375	199,328	1,360	3,414
Wigeon	7,642	7,035	119,114	86,675	2,429	3,506
Green-winged Teal	19,105	15,928	271,330	173,119	3,206	2,583
Blue-winged/Cinnamon Teal	14,010	25,219	237,096	201,398	777	2,122
Northern Shoveler	10,189	15,795	95,065	74,490	777	92
Northern Pintail	11,463	10,087	101,855	64,374	583	369
Wood Duck	5,731	4,778	20,088	14,484	389	0
Redhead	5,307	7,566	93,367	75,179	874	646
Canvasback	637	1,062	12,449	18,163	0	0
Greater Scaup	212	133	1,415	1,839	0	0
Lesser Scaup	4,033	1,725	69,601	22,071	97	277
Ring-necked Duck	5,731	3,716	40,459	36,325	583	92
Goldeneyes	849	664	849	230	4,955	5,905
Bufflehead	4,458	5,575	5,376	1,150	97	277
Ruddy Duck	1,274	398	1,415	3,219	97	0
Long-tailed Duck	0	0	0	0	0	0
Eiders	0	0	0	0	0	0
Scoters	0	0	283	0	0	0
Hooded Merganser	849	531	2,546	2,299	0	92
Other Mergansers	0	133	283	0	0	185
Other Ducks	0	0	2,546	2,989	0	0
Total Duck Harvest	220,300±21%	201,100±20%	1,491,600±46%	1,049,300±42%	41,700±22%	52,900±16%
Total Active Duck Hunters^a	14,800±15%	13,900±17%	74,700±21%	46,400±24%	3,400±17%	4,700±13%
Total Duck Hunter Days Afield^a	85,300±20%	83,700±22%	513,800±41%	360,600±46%	20,800±21%	26,600±17%
Seasonal Duck Harvest Per Hunter^a	14.9±26%	14.5±26%	20.0±51%	22.6±49%	12.2±27%	11.2±21%
Goose Species Composition						
Canada Goose	100,670	135,490	56,486	36,917	29,022	28,457
Snow Goose	23,375	10,313	63,356	54,290	330	0
Blue Goose	10,285	6,401	9,923	7,601	0	0
Ross' Goose	2,182	356	15,266	15,201	0	0
White-fronted Goose	4,363	1,422	63,356	34,745	0	0
Brant	0	0	0	0	0	0
Other Geese	0	0	0	0	0	0
Total Goose Harvest	140,900±20%	154,000±32%	208,400±65%	148,800±36%	29,400±35%	28,500±18%
Total Active Goose Hunters^b	14,700±13%	14,300±16%	31,300±25%	30,300±26%	3,800±16%	4,600±14%
Total Goose Hunter Days Afield^b	82,900±16%	92,600±31%	83,900±42%	90,500±38%	19,200±20%	27,600±26%
Seasonal Goose Harvest Per Hunter^b	9.6±24%	10.8±36%	6.7±70%	4.9±45%	7.8±39%	6.1±23%
Active Waterfowl Hunters^c	21,300±12%	20,200±14%	83,500±20%	54,300±23%	5,700±12%	7,400±9%
Sample Sizes						
DuckWings	1,038	1,515	5,272	4,564	429	573
GooseTails	452	433	273	137	356	270

Table 1C. Preliminary estimates of waterfowl harvest and hunter activity in the Central Flyway during the 2012 and 2013 hunting seasons.

Duck Species Composition	Flyway Total	
	2012	2013
Mallard	757,292	731,127
Domestic Mallard	604	460
Black Duck	0	133
Mallard x Black Hybrid	0	0
Mottled Duck	13,015	3,219
Gadwall	536,378	455,029
Wigeon	200,791	179,141
Green-winged Teal	412,706	332,482
Blue-winged/Cinnamon Teal	343,714	399,602
Northern Shoveler	154,225	170,334
Northern Pintail	154,199	129,821
Wood Duck	32,444	32,575
Redhead	135,931	132,258
Canvasback	25,806	31,565
Greater Scaup	1,907	3,511
Lesser Scaup	109,244	45,336
Ring-necked Duck	79,332	68,082
Goldeneyes	13,505	11,291
Bufflehead	13,703	15,279
Ruddy Duck	5,311	7,332
Long-tailed Duck	0	0
Eiders	0	0
Scoters	463	0
Hooded Merganser	7,070	8,270
Other Mergansers	1,480	1,268
Other Ducks	3,842	3,660
Total Duck Harvest	3,003,000±23%	2,761,800±17%
Total Active Duck Hunters^a	179,000	159,700
Total Duck Hunter Days Afield^a	1,150,600±18%	1,057,100±16%
Seasonal Duck Harvest Per Hunter^a		
<hr style="border-top: 1px dashed black;"/>		
Goose Species Composition		
Canada Goose	647,651	770,924
Snow Goose	136,868	127,463
Blue Goose	33,513	40,909
Ross' Goose	29,472	30,378
White-fronted Goose	82,060	58,121
Brant	0	0
Other Geese	0	0
Total Goose Harvest	929,600±16%	1,027,800±10%
Total Active Goose Hunters^b	124,900	129,200
Total Goose Hunter Days Afield^b	612,600±8%	660,000±9%
Seasonal Goose Harvest Per Hunter^b		
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Active Waterfowl Hunters^c	217,400	199,600
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Sample Sizes		
DuckWings	14,880	17,086
GooseTails	3,030	4,164

Table 1D. Preliminary estimates of waterfowl harvest and hunter activity in the Pacific Flyway during the 2012 and 2013 hunting seasons.

Duck Species Composition	Arizona		California		Idaho	
	2012	2013	2012	2013	2012	2013
Mallard	11,533	13,720	243,467	127,977	182,047	212,538
Domestic Mallard	0	148	0	607	153	874
Black Duck	0	0	0	0	0	0
Mallard x Black Hybrid	0	0	0	0	0	0
Mottled Duck	0	0	0	0	0	0
Gadwall	3,162	5,117	95,291	60,725	12,534	13,978
Wigeon	5,953	7,490	194,725	153,026	24,456	21,716
Green-winged Teal	9,053	15,351	371,171	258,838	12,075	16,973
Blue-winged/Cinnamon Teal	1,798	6,304	31,926	22,013	459	2,870
Northern Shoveler	6,139	7,713	291,478	197,355	7,490	5,366
Northern Pintail	1,736	3,041	201,061	130,558	7,948	7,114
Wood Duck	186	222	21,934	5,465	5,656	6,115
Redhead	806	964	14,623	7,742	3,210	2,496
Canvasback	1,798	222	23,396	30,059	611	749
Greater Scaup	124	74	12,673	1,974	917	624
Lesser Scaup	1,488	1,335	32,901	18,217	2,446	3,744
Ring-necked Duck	3,844	2,521	26,077	20,343	4,891	3,494
Goldeneyes	372	890	4,630	743	6,878	16,099
Bufflehead	868	964	13,160	12,752	4,586	3,994
Ruddy Duck	1,302	742	5,362	12,904	0	374
Long-tailed Duck	0	0	0	0	0	0
Eiders	0	0	0	0	0	0
Scoters	0	0	683	306	0	125
Hooded Merganser	62	0	1,706	304	764	749
Other Mergansers	248	148	731	455	611	374
Other Ducks	558	1,261	487	0	0	0
Total Duck Harvest	51,000±23%	68,200±43%	1,587,500±21%	1,062,400±14%	277,700±18%	320,400±17%
Total Active Duck Hunters^a	2,600±7%	4,700±22%	51,900±10%	47,000±11%	16,200±14%	19,400±11%
Total Duck Hunter Days Afield^a	20,600±13%	23,200±30%	554,000±17%	403,200±11%	120,700±22%	127,200±13%
Seasonal Duck Harvest Per Hunter^a	19.8±24%	14.4±48%	30.6±23%	22.6±18%	17.1±23%	16.5±20%
Goose Species Composition						
Canada Goose	1,400	2,087	47,877	44,071	72,557	62,595
Snow Goose	0	373	45,060	38,747	648	1,252
Blue Goose	0	0	201	0	0	0
Ross' Goose	233	149	14,886	13,310	324	0
White-fronted Goose	0	75	41,842	65,071	324	6,260
Brant	0	0	1,093	952	0	0
Other Geese	0	0	0	0	0	209
Total Goose Harvest	1,600±35%	2,700±62%	151,000±18%	162,200±19%	73,900±24%	70,300±15%
Total Active Goose Hunters^b	500±19%	1,600±41%	32,100±12%	29,800±13%	12,700±14%	15,600±12%
Total Goose Hunter Days Afield^b	3,300±36%	9,500±56%	263,300±19%	201,800±16%	85,600±24%	81,300±16%
Seasonal Goose Harvest Per Hunter^b	3.2±40%	1.6±74%	4.7±21%	5.4±23%	5.8±28%	4.5±19%
Active Waterfowl Hunters^c	2,600±7%	4,900±21%	54,700±10%	49,200±11%	21,100±12%	23,100±11%
Sample Sizes						
DuckWings	823	920	6,513	7,039	1,817	2,567
GooseTails	21	36	826	621	228	337

Table 1D. Preliminary estimates of waterfowl harvest and hunter activity in the Pacific Flyway during the 2012 and 2013 hunting seasons.

Duck Species Composition	Montana		Nevada		Oregon	
	2012	2013	2012	2013	2012	2013
Mallard	70,562	79,346	11,828	10,499	132,638	103,953
Domestic Mallard	0	0	0	0	90	294
Black Duck	0	0	0	0	0	0
Mallard x Black Hybrid	0	0	0	0	0	0
Mottled Duck	0	0	0	0	0	0
Gadwall	7,280	9,723	6,512	4,584	15,446	8,902
Wigeon	7,700	8,763	3,123	2,505	59,449	44,141
Green-winged Teal	8,260	6,602	9,370	7,621	48,852	34,651
Blue-winged/Cinnamon Teal	4,200	7,923	399	1,119	359	294
Northern Shoveler	2,100	5,762	11,230	7,035	20,026	18,466
Northern Pintail	3,920	2,641	3,256	2,238	59,449	37,299
Wood Duck	280	1,320	598	266	6,286	9,196
Redhead	3,220	3,241	1,130	640	629	0
Canvasback	1,260	720	665	320	1,796	2,060
Greater Scaup	0	0	66	53	11,854	1,545
Lesser Scaup	3,500	2,521	465	107	8,262	3,973
Ring-necked Duck	2,100	1,200	1,395	693	8,172	6,033
Goldeneyes	4,200	3,601	133	213	1,257	155
Bufflehead	140	1,080	266	213	10,866	3,531
Ruddy Duck	980	0	199	160	359	368
Long-tailed Duck	0	0	0	0	0	0
Eiders	0	0	0	0	0	0
Scoters	0	0	133	0	221	10
Hooded Merganser	280	120	0	53	2,155	1,030
Other Mergansers	140	120	199	0	1,078	515
Other Ducks	0	0	0	0	0	74
Total Duck Harvest	120,100±18%	134,700±32%	51,000±18%	38,300±22%	389,200±27%	276,500±26%
Total Active Duck Hunters^a	13,600±15%	10,600±20%	3,900±18%	3,600±22%	18,500±11%	13,800±13%
Total Duck Hunter Days Afield^a	69,800±20%	63,600±28%	22,200±17%	18,600±19%	147,300±18%	117,100±23%
Seasonal Duck Harvest Per Hunter^a	8.9±23%	12.6±37%	13.2±25%	10.6±31%	21.0±29%	20.1±29%
Goose Species Composition						
Canada Goose	71,733	42,099	5,276	6,177	48,401	48,653
Snow Goose	7,313	555	211	0	4,487	2,409
Blue Goose	522	0	0	0	0	0
Ross' Goose	174	555	106	0	0	602
White-fronted Goose	0	222	106	0	1,767	2,890
Brant	0	0	0	0	277	0
Other Geese	0	0	0	0	136	0
Total Goose Harvest	79,700±22%	43,400±40%	5,700±26%	6,200±42%	55,100±20%	54,600±24%
Total Active Goose Hunters^b	14,100±14%	6,600±28%	2,200±20%	1,900±27%	8,800±13%	7,500±16%
Total Goose Hunter Days Afield^b	70,700±21%	30,900±32%	12,500±30%	10,100±42%	53,700±23%	48,800±23%
Seasonal Goose Harvest Per Hunter^b	5.7±26%	6.6±49%	2.5±33%	3.3±50%	6.3±24%	7.3±29%
Active Waterfowl Hunters^c	19,400±12%	12,400±18%	4,700±16%	3,800±22%	20,400±10%	15,700±13%
Sample Sizes						
DuckWings	858	1,122	767	719	4,342	3,773
GooseTails	458	391	54	52	408	454

Table 1D. Preliminary estimates of waterfowl harvest and hunter activity in the Pacific Flyway during the 2012 and 2013 hunting seasons.

Duck Species Composition	Utah		Washington		Flyway Total	
	2012	2013	2012	2013	2012	2013
Mallard	74,489	52,713	226,227	123,569	952,792	724,316
Domestic Mallard	0	402	0	114	243	2,439
Black Duck	0	0	0	0	0	0
Mallard x Black Hybrid	0	0	0	0	0	0
Mottled Duck	0	0	0	0	0	0
Gadwall	42,642	19,479	11,391	7,182	194,258	129,689
Wigeon	30,249	17,471	77,070	62,240	402,725	317,352
Green-winged Teal	38,111	38,958	55,355	30,208	552,248	409,203
Blue-winged/Cinnamon Teal	3,465	5,824	356	456	42,961	46,803
Northern Shoveler	18,656	11,748	14,951	9,575	372,069	263,020
Northern Pintail	35,046	15,161	36,666	24,395	349,083	222,447
Wood Duck	0	100	2,314	4,218	37,254	26,904
Redhead	5,863	2,510	1,780	2,850	31,260	20,443
Canvasback	3,331	1,908	2,492	2,622	35,350	38,659
Greater Scaup	400	100	9,434	1,710	35,468	6,080
Lesser Scaup	4,264	4,418	10,857	7,524	64,183	41,838
Ring-necked Duck	11,593	3,113	9,256	7,638	67,329	45,035
Goldeneyes	933	5,322	8,544	1,104	26,948	28,127
Bufflehead	2,265	2,309	16,909	8,549	49,060	33,394
Ruddy Duck	2,532	1,004	0	114	10,734	15,666
Long-tailed Duck	0	0	356	23	356	23
Eiders	0	0	0	0	0	0
Scoters	0	100	3,382	437	4,418	978
Hooded Merganser	400	402	2,314	798	7,681	3,455
Other Mergansers	133	1,104	1,246	798	4,387	3,516
Other Ducks	133	201	0	0	1,179	1,535
Total Duck Harvest	274,500±21%	184,300±20%	490,900±28%	296,100±17%	3,242,000±12%	2,380,900±8%
Total Active Duck Hunters ^a	17,500±12%	14,300±16%	23,800±11%	17,200±13%	147,900	130,700
Total Duck Hunter Days Afield ^a	129,700±34%	90,600±23%	193,800±23%	127,100±15%	1,258,000±10%	970,800±7%
Seasonal Duck Harvest Per Hunter ^a	15.7±24%	12.9±26%	20.7±30%	17.1±21%		
Goose Species Composition						
Canada Goose	23,296	17,618	61,491	48,301	332,031	271,601
Snow Goose	210	647	11,562	4,383	69,491	48,365
Blue Goose	0	0	0	0	723	0
Ross' Goose	0	485	350	1,031	16,073	16,133
White-fronted Goose	0	0	876	516	44,915	75,033
Brant	0	0	295	767	1,664	1,719
Other Geese	0	0	0	0	136	209
Total Goose Harvest	23,500±20%	18,700±36%	74,600±21%	55,000±23%	465,000±9%	413,100±10%
Total Active Goose Hunters ^b	10,300±14%	7,800±22%	13,500±12%	10,200±15%	94,300	80,900
Total Goose Hunter Days Afield ^b	66,300±30%	44,200±39%	61,500±16%	56,000±20%	616,900±10%	482,800±9%
Seasonal Goose Harvest Per Hunter ^b	2.3±24%	2.4±43%	5.5±24%	5.3±27%		
Active Waterfowl Hunters ^c	18,700±11%	14,900±16%	25,500±10%	18,700±12%	167,100	142,700
Sample Sizes						
DuckWings	2,060	1,836	2,758	2,652	19,938	20,628
GooseTails	112	116	432	635	2,539	2,642

Table 1E. Preliminary estimates of waterfowl harvest and hunter activity in the Alaska and the United States during the 2012 and 2013 hunting seasons.

Duck Species Composition	Alaska		United States Total	
	2012	2013	2012	2013
Mallard	17,148	17,125	3,935,272	3,637,597
Domestic Mallard	0	69	7,338	7,452
Black Duck	0	0	94,559	100,187
Mallard x Black Hybrid	0	0	7,853	12,597
Mottled Duck	0	0	61,686	49,727
Gadwall	543	480	2,020,732	1,674,771
Wigeon	11,504	11,097	775,990	638,214
Green-winged Teal	7,489	8,152	2,029,587	1,711,307
Blue-winged/Cinnamon Teal	109	343	1,427,447	1,465,318
Northern Shoveler	2,388	5,275	952,841	821,859
Northern Pintail	10,962	9,727	683,446	538,467
Wood Duck	0	0	1,295,075	1,160,864
Redhead	0	0	285,764	310,201
Canvasback	109	274	117,249	159,712
Greater Scaup	326	343	97,900	82,224
Lesser Scaup	217	822	634,281	246,285
Ring-necked Duck	543	480	651,443	497,997
Goldeneyes	3,582	2,946	82,777	86,645
Bufflehead	977	1,987	246,730	223,984
Ruddy Duck	0	0	50,885	46,285
Long-tailed Duck	0	0	28,525	29,224
Eiders	0	0	11,725	7,778
Scoters	5,023	4,602	52,312	47,618
Hooded Merganser	0	0	99,837	98,552
Other Mergansers	2,870	1,255	35,113	35,123
Other Ducks	718	1,742	18,114	26,438
Total Duck Harvest	64,500±13%	66,700±16%	15,704,500±6%	13,716,400±6%
Total Active Duck Hunters^a	4,500±8%	4,700±9%	995,700	881,400
Total Duck Hunter Days Afield^a	25,600±13%	25,800±13%	7,043,600±4%	6,196,900±5%
Seasonal Duck Harvest Per Hunter^a	12.4±15%	12.7±18%		
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Goose Species Composition				
Canada Goose	9,126	5,142	2,510,574	2,656,066
Snow Goose	0	0	304,742	291,171
Blue Goose	0	0	80,313	89,404
Ross' Goose	0	0	54,265	52,769
White-fronted Goose	281	621	210,501	256,369
Brant	1,722	725	30,936	14,366
Other Geese	0	0	422	279
Total Goose Harvest	11,100±19%	6,500±27%	3,191,800±6%	3,360,400±6%
Total Active Goose Hunters^b	2,100±12%	1,800±16%	593,800	561,900
Total Goose Hunter Days Afield^b	12,200±17%	9,500±25%	3,458,000±4%	3,301,400±5%
Seasonal Goose Harvest Per Hunter^b	4.5±22%	3.2±31%		
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Active Waterfowl Hunters^c	5,200±7%	5,100±9%	1,148,200	1,017,700
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Sample Sizes				
DuckWings	527	882	69,105	74,693
GooseTails	106	93	13,976	16,422

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 2012 and 2013 hunting seasons.

	2012		2013	
	Central Flyway	Pacific Flyway	Central Flyway	Pacific Flyway
Duck Harvest				
Colorado	77,200	10,700	100,900	23,400
Montana	40,000	80,100	54,400	80,300
New Mexico	26,100	3,700	34,600	5,800
Wyoming	33,300	8,400	46,200	6,600
Goose Harvest				
Colorado	87,400	10,800	97,100	8,400
Montana	46,300	33,400	28,800	14,700
New Mexico	5,300	5,900	2,400	3,900
Wyoming	28,500	800	26,700	1,800

Table 3. Preliminary estimates of sea duck harvest and hunter activity for states with special sea duck seasons or sea duck permits during the 2012 and 2013 hunting seasons.¹

State / Flyway	Sea Duck Harvest ²		Active Sea Duck Hunters ³		Sea Duck Hunter Days Afield		Seasonal Harvest Per Hunter	
	2012	2013	2012	2013	2012	2013	2012	2013
Connecticut	3,500 ± 60%	4,500 ± 60%	500 ± 39%	600 ± 45%	2,000 ± 50%	2,100 ± 62%	6.7 ± .%	7.4 ± 75%
Delaware	1,000 ± 53%	1,100 ± 74%	200 ± 59%	300 ± 58%	500 ± 50%	800 ± 81%	4.2 ± 79%	4.4 ± 94%
Maine	8,500 ± 53%	5,000 ± 67%	1,100 ± 34%	1,000 ± 47%	4,700 ± 55%	3,500 ± 62%	7.7 ± 63%	4.9 ± 82%
Maryland	10,900 ± 40%	14,100 ± 42%	2,800 ± 30%	2,700 ± 24%	5,800 ± 44%	7,100 ± 36%	3.9 ± 50%	5.2 ± 48%
Massachusetts	6,500 ± 34%	3,800 ± 47%	900 ± 28%	700 ± 43%	3,000 ± 31%	1,700 ± 46%	7.6 ± 43%	5.6 ± 64%
New Hampshire	1,600 ± 63%	1,700 ± 89%	200 ± 49%	200 ± 69%	700 ± 52%	800 ± 74%	7.1 ± 80%	9.0 ± 112%
New Jersey	7,700 ± 38%	5,300 ± 44%	1,000 ± 28%	1,100 ± 32%	3,200 ± 38%	3,300 ± 39%	7.4 ± 47%	4.7 ± 54%
New York	16,100 ± 61%	13,600 ± 48%	1,600 ± 32%	2,000 ± 37%	7,800 ± 56%	8,600 ± 41%	10.1 ± 69%	6.7 ± 61%
Rhode Island	600 ± 40%	800 ± 50%	200 ± 35%	200 ± 37%	500 ± 49%	1,100 ± 63%	3.3 ± 53%	4.0 ± 62%
Virginia	6,200 ± 66%	2,900 ± 67%	1,200 ± 48%	1,000 ± 58%	3,500 ± 47%	2,100 ± 55%	5.0 ± 81%	3.0 ± 89%
Atlantic Flyway Total	62,500 ± 21%	53,000 ± 20%	9,800	9,800	31,900 ± 20%	31,200 ± 18%		
California	700 ± 87%	1,000 ± 73%	100 ± 36%	100 ± 36%	700 ± 50%	600 ± 54%	5.7 ± 94%	8.3 ± 81%
Oregon	200 ± 145%	200 ± 98%	<50 ± 62%	<50 ± 70%	100 ± 84%	100 ± 82%	4.6 ± 157%	3.7 ± 120%
Washington ⁴	-	1,600 ± 87%	-	100 ± 61%	-	1,200 ± 108%	-	14.0 ± 106%
Pacific Flyway	900 ± 74%	2,800 ± 56%	200	300	800 ± 43%	1,900 ± 70%		
Alaska	8,600 ± 28%	7,500 ± 33%	1,200 ± 19%	1,100 ± 27%	5,700 ± 22%	4,400 ± 34%	7.1 ± 34%	6.8 ± 43%
U.S. Total	72,000 ± 18%	63,300 ± 17%	11,200	11,200	38,400 ± 17%	37,600 ± 16%		

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

² Sea ducks include long-tailed ducks, eiders, and scoters in the Atlantic Flyway; long-tailed ducks, scoters, and harlequin ducks in California and Oregon; long-tailed ducks, scoters, harlequin ducks, and goldeneyes in Washington; and long-tailed ducks, eiders, scoters, harlequin ducks, and mergansers in Alaska.

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 Estimates for 2012 not available.

Table 4. Preliminary estimates of brant harvest and hunter activity along the Atlantic and Pacific coasts during the 2012 and 2013 hunting seasons.¹

State / Flyway	Brant Harvest		Active Brant Hunters ²		Brant Hunter Days Afield		Seasonal Harvest Per Hunter	
	2012	2013	2012	2013	2012	2013	2012	2013
Connecticut	300 ± 136%	0	200 ± 111%	100 ± 195%	200 ± 111%	900 ± 195%	1.3 ± 176%	0
Delaware	500 ± 89%	200 ± 117%	200 ± 64%	100 ± 82%	900 ± 114%	400 ± 97%	2.6 ± 110%	3.3 ± 143%
Maryland	1,000 ± 114%	100 ± 140%	500 ± 79%	100 ± 154%	1,400 ± 119%	100 ± 154%	2.2 ± 139%	1.2 ± 208%
Massachusetts	900 ± 42%	100 ± 116%	400 ± 42%	100 ± 103%	1,100 ± 36%	300 ± 123%	2.4 ± 59%	1.3 ± 155%
New Hampshire	0	0	<50 ± 171%	100 ± 136%	100 ± 188%	300 ± 149%	0	0
New Jersey	8,800 ± 23%	4,600 ± 100%	2,000 ± 18%	1,100 ± 31%	6,900 ± 23%	4,400 ± 57%	4.5 ± 29%	4.3 ± 104%
New York	8,900 ± 36%	4,200 ± 44%	1,900 ± 32%	1,500 ± 42%	7,600 ± 34%	4,900 ± 42%	4.8 ± 48%	2.8 ± 61%
North Carolina	3,800 ± 102%	900 ± 142%	700 ± 97%	600 ± 116%	3,400 ± 108%	2,600 ± 125%	5.3 ± 141%	1.5 ± 183%
Rhode Island	400 ± 46%	200 ± 61%	100 ± 56%	100 ± 43%	600 ± 33%	500 ± 55%	2.7 ± 72%	3.5 ± 74%
Virginia	1,900 ± 35%	1,200 ± 108%	800 ± 40%	700 ± 70%	2,100 ± 39%	1,200 ± 71%	2.4 ± 53%	1.8 ± 129%
Atlantic Flyway Total	26,400 ± 21%	11,600 ± 46%	6,700	4,300	24,200 ± 22%	15,500 ± 33%		
California	900 ± 31%	1,000 ± 48%	300 ± 82%	300 ± 92%	2,300 ± 138%	1,000 ± 43%	2.7 ± 88%	2.8 ± 103%
Oregon	<50 ± 196%	0	<50 ± 77%	<50 ± 96%	<50 ± 81%	<50 ± 116%	0.3 ± 211%	0
Washington	300 ± 79%	800 ± 85%	100 ± 43%	400 ± 76%	300 ± 50%	1,200 ± 89%	2.3 ± 90%	1.8 ± 114%
Pacific Flyway Total	1,200 ± 30%	1,700 ± 46%	500	800	2,600 ± 121%	2,300 ± 51%		
Alaska	1,700 ± 45%	700 ± 55%	400 ± 28%	200 ± 44%	2,500 ± 43%	1,000 ± 60%	4.7 ± 53%	3.6 ± 70%
U.S. Total	29,300 ± 19%	14,000 ± 38%	7,500	5,300	29,300 ± 21%	18,800 ± 28%		

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 and teal/wood duck seasons during the 2012 and 2013 hunting seasons.

State	Harvest										Number of wings received	
	Green-winged Teal		Blue-winged Teal		Wood ducks		Other ducks		Total duck harvest		2012	2013
	2012	2013	2012	2013	2012	2013	2012	2013	2012	2013		
September Teal Seasons												
Delaware	3,205	449	320	150	0	0	0	0	3,525	598	22	8
Georgia	0	0	7,052	8,586	0	0	0	0	7,052	8,586	20	59
Maryland	0	132	0	396	0	0	0	0	0	528	0	4
North Carolina	258	850	2,064	638	0	0	774	638	3,095	2,125	12	10
South Carolina	0	0	6,066	1,742	0	0	0	0	6,066	1,742	23	11
Virginia	1,271	0	794	324	0	0	0	216	2,066	541	13	5
Subtotal	4,734	1,431	16,297	11,835	0	0	774	854	21,804	14,119	90	97
Alabama	0	212	26,954	12,927	0	212	0	212	26,954	13,563	40	64
Arkansas	460	0	23,923	4,673	0	0	0	0	24,383	4,673	53	18
Illinois	1,889	0	22,289	11,419	0	0	0	0	24,178	11,419	64	24
Indiana	217	549	4,551	2,197	0	0	0	0	4,768	2,746	22	20
Louisiana	27,655	4,649	390,923	323,077	469	0	469	0	419,515	327,726	895	846
Mississippi	0	0	16,033	9,326	422	0	0	0	16,454	9,326	39	38
Missouri	2,758	1,448	49,881	38,229	0	0	0	0	52,640	39,677	229	137
Ohio	1,305	5,870	3,916	5,525	0	0	0	0	5,221	11,395	28	33
Subtotal	34,285	12,728	538,470	407,373	891	212	469	212	574,114	420,525	1,370	1,180
Colorado	1,199	1,312	4,595	4,156	0	0	0	0	5,794	5,468	58	50
Kansas	4,298	2,323	19,420	28,213	0	0	0	0	23,718	30,537	149	184
Nebraska	5,280	1,174	14,868	11,606	0	0	0	130	20,149	12,910	145	99
New Mexico	384	402	769	2,891	0	0	0	0	1,153	3,292	15	41
Oklahoma	3,562	1,553	14,087	12,426	0	0	0	0	17,649	13,980	109	63
Texas	23,483	4,598	195,222	119,781	0	0	283	0	218,988	124,379	774	541
Subtotal	38,207	11,362	248,961	179,073	0	0	283	130	287,451	190,566	1,250	978
Total	77,225	25,521	803,728	598,282	891	212	1,525	1,196	883,370	625,211	2,710	2,255
September Teal/Wood Duck Seasons												
Florida	104	0	8,774	8,533	627	905	0	0	9,505	9,438	91	73
Kentucky	0	0	313	696	1,880	5,565	0	0	2,193	6,261	14	9
Tennessee	0	0	15,891	0	12,360	8,364	0	0	28,251	8,364	32	8
Total	104	0	24,979	9,229	14,867	14,834	0	0	39,950	24,063	137	90
U.S. Total	77,330	25,521	828,707	607,510	15,757	15,046	1,525	1,196	923,319	649,273	2,847	2,345

Table 6. Preliminary estimates of the number of Canada geese harvested during the special September, regular, and special late seasons during the 2012 and 2013 hunting seasons.

State / Flyway	September		Regular		Late		Total	
	2012	2013	2012	2013	2012	2013	2012	2013
Connecticut	1,400	1,200	6,500	7,500	0	0	7,900	8,600
Delaware	2,800	900	11,800	17,000	---	---	14,600	17,900
Florida	0	0	500	1,700	---	---	500	1,700
Georgia	6,600	4,700	8,800	27,400	---	---	15,400	32,200
Maine	3,400	3,900	6,100	4,900	---	---	9,500	8,800
Maryland	10,700	5,800	165,000	146,700	---	---	175,700	152,500
Massachusetts	1,600	2,100	7,800	3,800	1,500	1,300	10,800	7,100
New Hampshire	2,700	1,500	2,200	4,500	---	---	4,800	6,000
New Jersey	8,600	6,000	23,300	42,300	4,100	3,400	36,000	51,700
New York	58,200	69,400	77,700	64,900	0	2,000	135,900	136,200
North Carolina	37,700	7,200	36,000	48,700	---	---	73,700	55,900
Pennsylvania	27,400	33,200	76,600	70,700	---	---	104,000	103,900
Rhode Island	0	100	1,500	4,600	0	0	1,500	4,700
South Carolina	10,500	9,300	29,200	7,900	---	---	39,700	17,200
Vermont	4,500	5,200	4,000	4,400	---	---	8,600	9,600
Virginia	9,700	10,700	42,000	47,100	0	0	51,700	57,800
West Virginia	1,500	600	4,300	4,300	---	---	5,800	4,900
Atlantic Flyway Total	187,400	161,700	503,300	508,400	5,600	6,700	696,100	676,700
Alabama	13,200	7,400	6,600	23,600	---	---	19,700	30,900
Arkansas	1,900	3,600	7,600	9,900	---	---	9,500	13,600
Illinois	16,700	15,700	76,000	95,500	---	---	92,700	111,200
Indiana	15,700	12,300	36,200	32,400	8,100	10,200	60,000	54,900
Iowa	600	0	38,400	73,700	---	---	38,900	73,700
Kentucky	1,400	10,800	5,300	30,100	---	---	6,600	40,900
Louisiana	0	0	600	0	---	---	600	0
Michigan	60,400	55,300	83,700	91,900	400	700	144,500	148,000
Minnesota ^a	73,100	78,400	162,700	108,900	---	---	235,900	191,600
Mississippi	0	0	5,300	7,200	---	---	5,300	7,200
Missouri	0	0	39,100	35,100	---	---	39,100	35,100
Ohio	13,200	33,900	46,200	94,600	---	---	59,400	128,500
Tennessee	14,800	4,000	14,800	8,000	---	---	29,600	12,000
Wisconsin	23,900	27,900	59,900	57,900	---	---	83,800	85,800
Mississippi Flyway Total	234,700	249,300	582,300	668,800	8,500	11,000	825,500	933,400
Kansas	0	0	72,200	108,700	---	---	72,200	108,700
Nebraska	0	0	97,800	111,000	---	---	97,800	111,000
North Dakota ^b	16,900	33,900	120,900	122,100	---	---	147,200	168,500
Oklahoma	200	0	40,600	75,600	---	---	40,800	75,600
South Dakota ^c	21,500	54,100	76,400	78,900	---	---	100,700	135,500
Colorado	0	1,100	10,800	7,300	---	---	10,800	8,400
Oregon	4,400	2,900	44,100	45,800	---	---	48,400	48,700
Washington	3,000	3,200	57,800	44,600	700	500	61,500	48,300
Wyoming	200	1,100	700	700	---	---	800	1,800

^a The total harvest for Minnesota includes managed take of geese during August: 4,400 in 2013.

^b The total harvest for North Dakota includes managed take of geese during August: 9,400 in 2012 and 12,500 in 2013.

^c The total harvest for South Dakota includes managed take of geese during August: 2,800 in 2012 and 2,500 in 2013.

Table 7. Waterfowl harvest estimates in Canada during the 2012 and 2013 hunting seasons (estimates courtesy of the Canadian Wildlife Service).

Duck Species Composition	Newfoundland		Prince Edward Isl.		Nova Scotia		New Brunswick		Quebec		Ontario		Manitoba	
	2012	2013	2012	2013	2012	2013	2012	2013	2012	2013	2012	2013	2012	2013
Mallard	670	0	3,430	758	5,300	7,500	5,500	9,689	62,040	47,579	105,530	107,319	59,170	42,549
Black Duck	8,920	18,034	5,870	7,296	22,240	26,773	9,240	10,661	31,680	22,433	13,930	14,436	0	152
Gadwall	0	0	710	0	0	171	220	312	940	1,748	3,930	4,191	7,230	3,665
Wigeon	580	0	740	0	1,530	1,110	1,090	705	1,260	2,231	5,860	8,642	1,550	3,098
Green-winged Teal	4,120	4,772	1,720	471	2,470	3,405	4,140	5,244	16,280	26,768	8,830	16,466	5,840	13,529
Blue-winged/Cinnamon Teal	0	0	250	384	510	187	2,360	561	1,990	1,248	5,600	3,882	11,270	20,242
Northern Shoveler	0	0	0	0	0	0	0	72	630	399	1,280	1,071	5,290	6,162
Northern Pintail	300	612	0	671	580	696	260	721	3,290	7,060	1,670	4,850	6,190	3,796
Wood Duck	0	0	0	0	340	320	2,360	3,140	14,370	13,842	52,530	51,884	5,030	1,734
Redhead	0	0	0	0	0	0	0	0	190	72	4,610	3,668	6,150	9,409
Canvasback	0	0	0	0	0	0	0	0	90	0	3,910	1,979	2,050	5,318
Greater Scaup	0	1,251	0	234	0	105	0	692	1,920	2,081	3,620	4,993	0	156
Lesser Scaup	0	575	210	837	0	205	190	1,404	2,990	2,060	7,720	11,648	5,550	8,964
Ring-necked Duck	5,130	2,644	210	843	1,310	295	3,040	2,174	5,150	5,944	18,090	11,780	4,860	6,675
Goldeneyes	410	4,107	0	552	390	1,386	1,840	2,075	6,670	1,773	11,850	4,545	1,140	1,065
Bufflehead	0	0	0	55	1,100	620	1,910	0	1,060	1,126	11,580	9,535	3,100	1,500
Ruddy Duck	0	0	0	0	0	0	210	0	0	0	840	0	0	0
Long-tailed Duck	210	183	0	0	0	361	0	0	460	657	1,360	1,421	0	0
Eiders	13,150	12,531	0	0	320	355	170	643	3,180	1,683	0	110	0	0
Scoters	1,790	368	0	0	2,750	801	60	110	4,310	2,782	130	487	0	0
Hooded Merganser	520	1,472	0	487	760	623	310	55	3,430	900	3,770	766	360	0
Other Mergansers	11,070	6,737	460	539	2,080	1,055	0	141	3,550	4,030	2,040	5,076	0	680
Other Ducks	0	0	0	0	0	0	0	0	0	134	0	0	0	0
Total Duck Harvest	46,880	53,286	13,590	13,127	41,670	45,968	32,890	38,399	165,470	146,550	268,680	268,749	124,780	128,694
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Goose Species Composition														
Canada Goose	4,120	7,201	14,970	14,370	7,720	12,616	11,480	12,153	119,600	136,417	199,400	199,784	86,960	109,547
Snow Goose	0	0	0	0	0	0	0	0	96,140	57,281	3,030	529	3,010	2,528
Blue Goose	0	0	0	0	0	0	0	0	850	1,310	0	489	9,890	4,175
Ross's Goose	0	0	0	0	0	0	0	0	0	0	0	231	3,070	1,448
White-fronted Goose	0	0	0	0	0	0	0	0	0	0	0	0	630	0
Brant	0	0	0	0	0	0	0	0	0	0	200	0	0	0
Total Goose Harvest	4,120	7,201	14,970	14,370	7,720	12,616	11,480	12,153	216,590	195,008	202,630	201,033	103,560	117,698
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Migratory Bird Permits Sold	17,418	17,548	1,744	1,742	5,794	5,825	5,814	6,182	31,339	31,943	57,317	62,009	12,233	12,765

Table 7 (continued). Waterfowl harvest estimates in Canada during the 2012 and 2013 hunting seasons (estimates courtesy of the Canadian Wildlife Service).

Duck Species Composition	Saskatchewan		Alberta		British Columbia		Nunavut		Northwest Terr.		Yukon Territory		Canada Total	
	2012	2013	2012	2013	2012	2013	2012	2013	2012	2013	2012	2013	2012	2013
Mallard	143,260	193,591	91,670	106,935	32,990	29,986	0	0	330	923	0	0	509,890	546,829
Black Duck	0	0	0	0	0	0	0	0	0	0	0	0	91,860	99,785
Gadwall	29,400	18,864	8,530	10,706	600	237	0	0	0	0	0	0	51,550	39,894
Wigeon	8,990	2,527	5,780	2,710	9,870	5,851	0	0	170	461	0	0	37,420	27,335
Green-winged Teal	3,530	6,969	5,330	3,734	1,570	1,626	0	0	330	0	0	0	54,160	82,984
Blue-winged/Cinnamon Teal	22,790	38,943	4,650	12,572	0	328	0	0	0	0	0	0	49,420	78,347
Northern Shoveler	22,040	15,458	7,660	7,051	560	1,467	0	0	0	0	0	0	37,460	31,680
Northern Pintail	20,220	19,243	14,050	15,786	2,760	2,357	0	0	0	0	0	0	49,310	55,792
Wood Duck	0	0	0	0	80	25	0	0	0	0	0	0	74,710	70,945
Redhead	4,560	5,884	4,300	4,106	130	75	0	0	0	0	0	0	19,940	23,214
Canvasback	6,150	761	790	6,051	0	0	0	0	0	0	0	0	13,000	14,109
Greater Scaup	0	0	0	0	0	0	0	0	0	0	0	0	5,530	9,512
Lesser Scaup	2,030	1,973	2,160	4,339	220	134	0	0	0	0	0	0	21,070	32,139
Ring-necked Duck	2,280	0	0	0	320	98	0	0	0	0	0	0	40,390	30,453
Goldeneyes	240	1,590	2,320	1,778	280	734	0	0	0	0	0	0	25,150	19,605
Bufflehead	0	358	610	1,755	200	495	0	0	0	0	0	0	19,560	15,444
Ruddy Duck	0	0	0	0	0	0	0	0	0	0	0	0	1,050	0
Long-tailed Duck	0	0	0	0	0	0	0	0	0	0	0	0	2,030	2,622
Eiders	0	0	0	0	0	0	0	0	0	0	0	0	16,820	15,322
Scoters	0	0	0	0	0	0	0	0	0	0	0	0	9,030	4,548
Hooded Merganser	2,650	0	90	0	40	32	0	0	0	0	0	0	11,930	4,335
Other Mergansers	0	0	0	0	0	213	0	0	0	0	0	0	19,200	18,471
Other Ducks	0	0	0	0	0	0	0	0	0	0	0	0	0	134
Total Duck Harvest	268,150	306,161	147,940	177,523	49,620	43,658	0	0	840	1,384	0	0	1,160,490	1,223,499
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Goose Species Composition														
Canada Goose	173,050	141,655	98,640	80,546	14,400	11,639	0	0	0	0	0	154	730,320	726,082
Snow Goose	44,990	65,452	14,480	24,205	0	1,208	0	0	0	0	0	0	161,650	151,203
Blue Goose	40,860	62,383	490	5,008	0	351	0	0	0	0	0	0	52,100	73,716
Ross's Goose	34,680	29,478	2,200	3,798	0	0	0	0	0	0	0	0	39,950	34,955
White-fronted Goose	52,760	42,181	27,650	32,799	0	133	0	0	0	0	0	0	81,040	75,113
Brant	0	0	0	0	0	0	0	0	0	0	0	0	200	0
Total Goose Harvest	346,340	341,149	143,460	146,356	14,400	13,331	0	0	0	0	0	154	1,065,260	1,061,069
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Migratory Bird Permits Sold	20,076	21,376	20,899	22,736	6,786	7,108	33	44	261	287	254	259	180,042	189,844

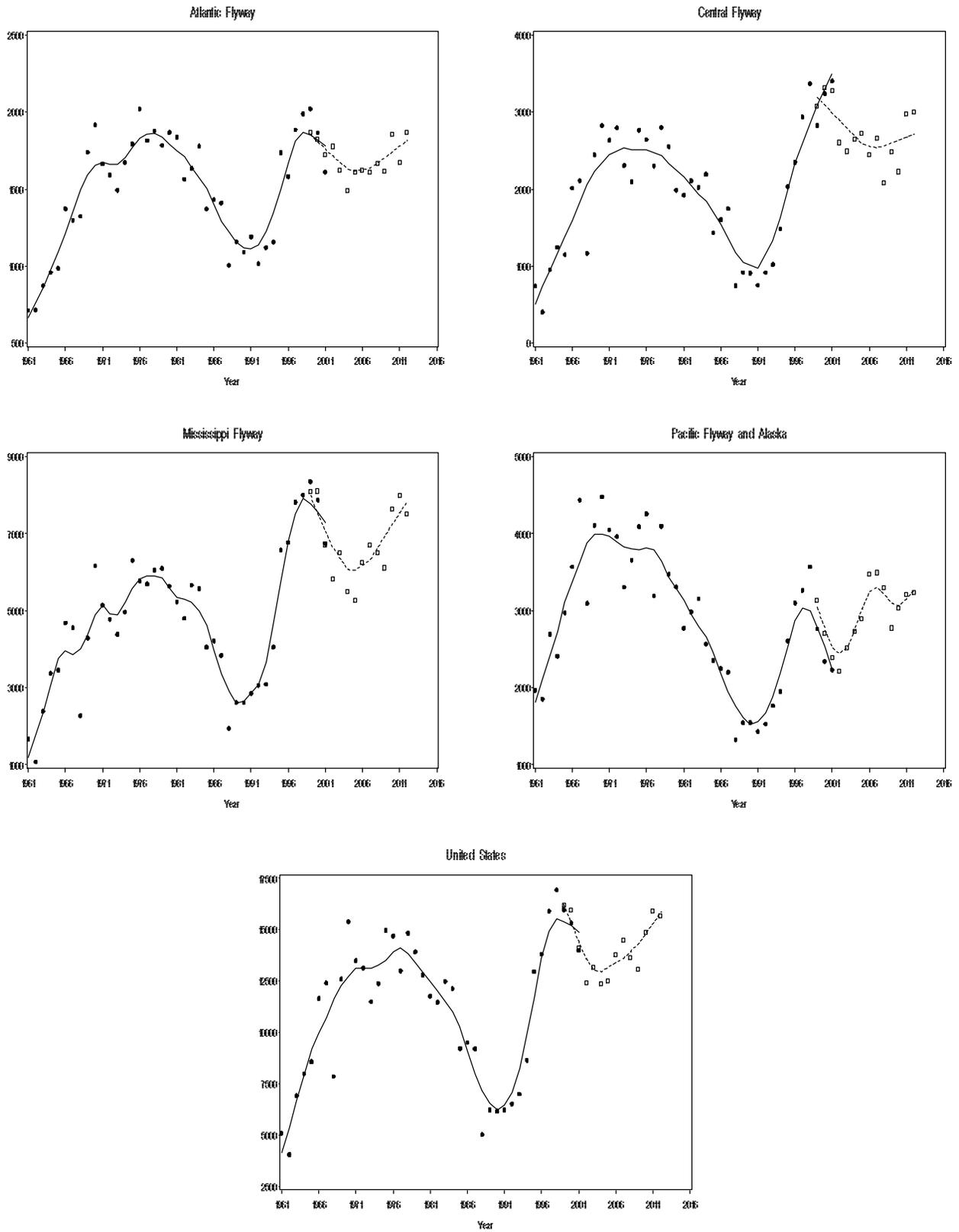


Figure 1. Number of ducks harvested (in thousands) by hunters in the the United States, 1961-2013. (Federal Duck Stamp Survey - circles and solid line; HIP survey squares and dashed line).

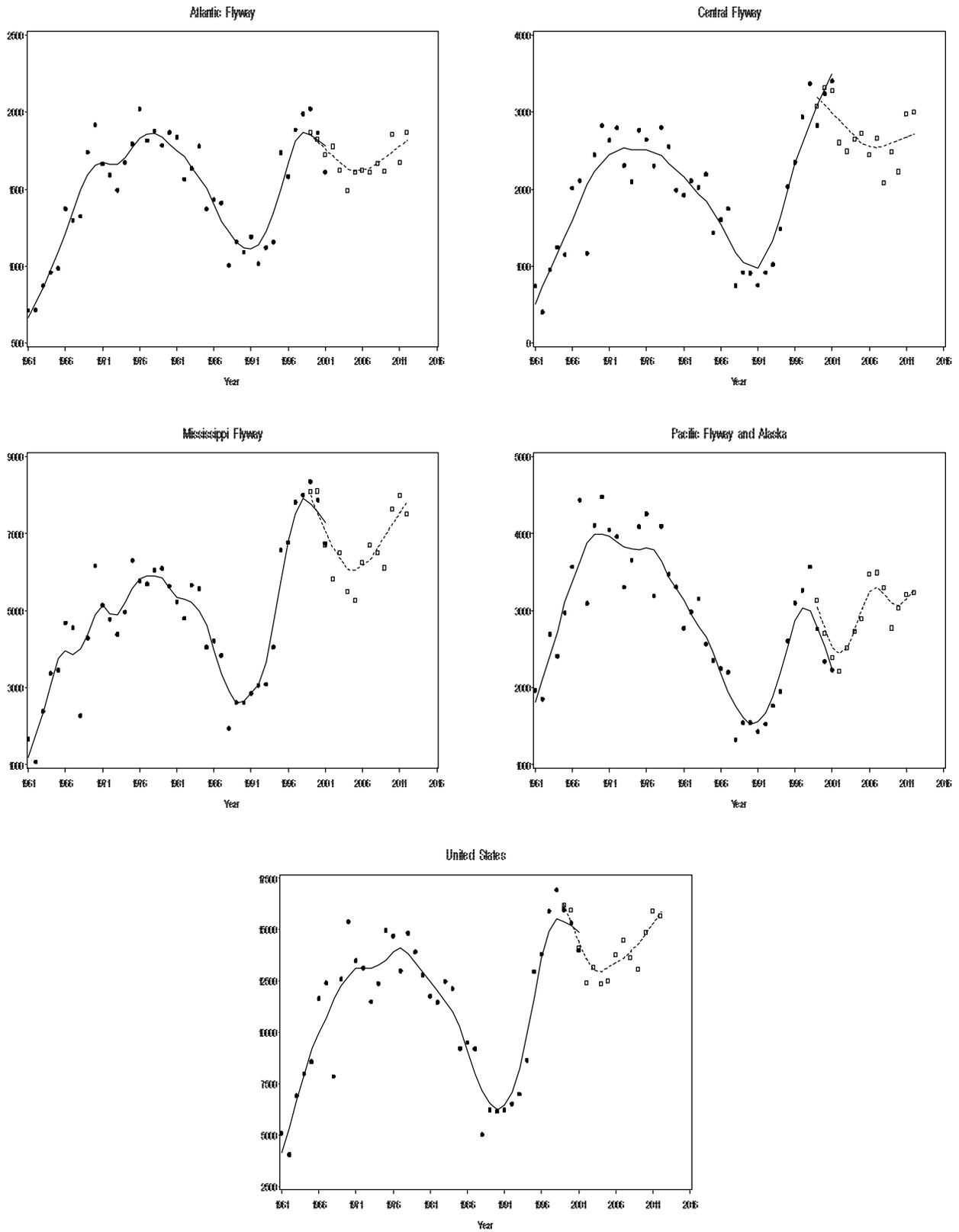


Figure 2. Number of geese harvested (in thousands) by hunters in the the United States, 1961-2013. (Federal Duck Stamp Survey - circles and solid line; HIP survey squares and dashed line).

Table 8. Preliminary weighted age ratios of mallards in state harvests during the 2009-2013 hunting seasons as determined from Waterfowl Parts Collection Survey.

State and Flyway	Immatures per adult ^a				
	2009	2010	2011	2012	2013
Connecticut	1.4	1.5	1.2	1.0	0.9
Delaware	1.6	0.9	1.2	1.2	2.0
Florida	---	---	---	---	---
Georgia	1.2	1.2	1.2	0.9	1.6
Maine	2.8	2.7	1.9	2.5	1.4
Maryland	1.4	1.1	1.5	1.4	1.1
Massachusetts	1.1	1.1	1.0	1.4	0.9
New Hampshire	3.1	1.1	1.2	1.9	2.3
New Jersey	0.8	1.0	1.1	0.8	0.6
New York	1.6	1.7	1.7	1.7	1.6
North Carolina	1.4	1.4	1.1	1.3	1.5
Pennsylvania	1.0	1.1	1.0	1.0	1.3
Rhode Island	0.8	0.7	0.8	---	1.2
South Carolina	1.7	2.0	1.5	3.7	2.3
Vermont	2.2	1.9	1.8	1.6	1.7
Virginia	1.2	1.0	0.7	0.8	1.1
West Virginia	0.7	1.2	1.4	1.2	0.7
Atlantic Flyway Total ^b	1.37	1.30	1.24	1.38	1.37
Alabama	0.4	1.2	1.2	1.6	1.0
Arkansas	0.9	1.1	1.3	1.0	0.8
Illinois	1.7	1.9	2.1	2.1	1.6
Indiana	1.5	1.1	1.9	1.5	1.7
Iowa	2.3	3.4	4.6	3.1	2.9
Kentucky	1.5	1.2	1.3	1.3	1.7
Louisiana	1.1	1.4	2.3	1.5	1.1
Michigan	2.0	1.8	2.2	2.0	1.4
Minnesota	3.0	2.9	4.7	4.5	3.5
Mississippi	0.7	1.3	1.2	1.3	0.6
Missouri	1.3	2.3	2.3	1.9	1.4
Ohio	1.4	1.7	1.9	1.6	1.2
Tennessee	1.0	1.6	1.3	1.5	0.9
Wisconsin	2.6	2.9	3.5	2.9	2.6
Mississippi Flyway Total ^b	1.24	1.59	1.91	1.68	1.31

Table 8 (continued). Preliminary weighted age ratios of mallards in state harvests during the 2009-2013 hunting seasons as determined from Waterfowl Parts Collection Survey.

State and Flyway	Immatures per adult ^a				
	2009	2010	2011	2012	2013
Colorado	0.7	0.9	1.6	0.9	1.0
Kansas	0.6	1.3	1.2	0.7	0.9
Montana	0.8	1.0	1.0	1.1	1.6
Nebraska	0.8	1.3	1.2	1.0	1.1
New Mexico	1.3	1.5	1.5	1.3	1.2
North Dakota	2.3	2.4	3.7	3.2	2.6
Oklahoma	0.4	0.6	0.7	0.4	0.6
South Dakota	1.7	2.5	2.9	2.4	1.9
Texas	0.7	0.9	0.9	0.7	0.8
Wyoming	0.9	1.3	1.6	1.1	0.8
Central Flyway Total ^b	1.01	1.29	1.52	1.17	1.19
Arizona	1.1	1.4	2.4	1.7	1.3
California	1.9	2.2	2.7	1.5	1.4
Colorado	1.5	1.1	1.8	1.4	1.6
Idaho	1.0	1.3	2.0	1.0	1.0
Montana	1.0	1.2	2.2	1.0	1.2
Nevada	1.4	3.2	3.7	1.3	1.3
New Mexico	0.9	0.7	---	---	0.9
Oregon	1.6	1.5	2.1	1.5	1.3
Utah	1.7	1.3	2.6	1.5	1.2
Washington	1.1	1.4	2.0	1.4	1.6
Wyoming	2.5	1.6	2.7	2.1	4.6
Pacific Flyway Total ^b	1.42	1.63	2.28	1.35	1.25
Alaska	3.4	3.2	4.0	3.8	2.4
U.S. Total ^b	1.25	1.53	1.85	1.46	1.28

^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 2009-2013 hunting seasons, by species and flyway.

Species and Flyway	Immatures per adult ^{a, b}				
	2009	2010	2011	2012	2013
Mallard					
Atlantic	1.37	1.30	1.24	1.38	1.37
Mississippi	1.24	1.59	1.91	1.68	1.31
Central	1.01	1.29	1.52	1.17	1.19
Pacific	1.42	1.63	2.28	1.35	1.25
U.S. Total	1.25	1.53	1.85	1.46	1.28
Black duck					
Atlantic	1.15	1.43	1.23	1.44	1.43
Mississippi	1.65	2.24	1.38	1.56	2.00
U.S. Total	1.27	1.58	1.27	1.47	1.56
Mottled duck					
Atlantic	1.07	0.69	1.20	0.80	2.45
Mississippi	1.19	1.40	3.16	1.00	2.80
Central	0.85	1.93	0.24	2.54	---
U.S. Total	1.11	1.29	1.56	1.17	2.46
Gadwall					
Atlantic	1.00	1.82	2.61	1.13	1.48
Mississippi	1.32	1.72	1.82	1.21	1.25
Central	1.16	1.68	1.38	0.95	1.25
Pacific	1.03	1.34	1.46	0.84	1.13
U.S. Total	1.22	1.66	1.68	1.10	1.25
American wigeon					
Atlantic	0.66	1.79	1.43	0.99	1.03
Mississippi	1.37	1.69	1.97	1.38	1.27
Central	0.71	1.11	0.76	0.73	0.84
Pacific	1.29	1.34	1.76	1.21	1.52
U.S. Total	1.10	1.41	1.48	1.08	1.24
Green-winged teal					
Atlantic	1.62	1.95	1.97	2.05	1.77
Mississippi	1.23	1.61	2.00	1.60	1.80
Central	1.59	1.68	1.81	1.39	1.71
Pacific	1.05	0.87	1.28	0.93	1.35
U.S. Total	1.25	1.39	1.75	1.36	1.66
Blue-winged/Cinnamon teal					
Atlantic	0.96	0.97	1.97	1.25	0.98
Mississippi	1.24	1.71	1.59	1.29	1.49
Central	1.42	1.57	2.36	1.85	2.19
Pacific	0.63	0.94	1.34	1.14	1.68
U.S. Total	1.22	1.52	1.79	1.39	1.62

Table 9 (continued). Preliminary weighted age ratios of ducks harvested during the 2009-2013 hunting seasons, by species and flyway.

Species and Flyway	Immatures per adult ^{a, b}				
	2009	2010	2011	2012	2013
Northern shoveler					
Atlantic	0.98	1.98	3.17	1.10	1.84
Mississippi	1.30	1.57	1.89	1.10	1.69
Central	2.12	2.28	2.05	1.14	2.38
Pacific	0.90	1.51	2.21	0.79	1.29
U.S. Total	1.27	1.66	2.07	0.97	1.67
Northern pintail					
Atlantic	0.66	1.77	1.30	0.94	1.18
Mississippi	1.30	2.03	1.67	0.89	1.71
Central	1.09	1.31	0.90	0.79	1.06
Pacific	0.98	1.24	1.44	0.71	0.98
U.S. Total	1.07	1.46	1.35	0.78	1.21
Wood duck					
Atlantic	1.31	1.20	0.90	1.09	1.45
Mississippi	2.05	1.78	1.22	1.25	1.45
Central	1.01	1.42	1.09	0.97	1.11
Pacific	2.08	1.43	1.69	1.36	1.23
U.S. Total	1.71	1.54	1.12	1.19	1.43
Redhead					
Atlantic	0.38	1.93	2.30	0.92	1.46
Mississippi	1.62	6.54	4.51	2.29	2.92
Central	1.56	3.47	2.15	1.51	2.25
Pacific	0.70	1.27	2.46	1.12	1.82
U.S. Total	1.32	3.69	3.03	1.62	2.32
Canvasback					
Atlantic	0.52	0.58	1.24	0.45	0.80
Mississippi	0.74	1.83	1.63	0.88	1.20
Central	1.34	2.48	2.11	0.73	1.19
Pacific	1.00	1.37	2.82	0.90	1.57
U.S. Total	0.90	1.51	1.91	0.83	1.24
Greater scaup					
Atlantic	0.63	0.57	0.86	0.79	1.85
Mississippi	1.24	1.15	2.01	0.98	1.09
Central	---	---	---	---	---
Pacific	1.19	0.64	0.48	1.06	1.52
U.S. Total	1.06	0.80	1.22	0.95	1.38

Table 9 (continued). Preliminary weighted age ratios of ducks harvested during the 2009-2013 hunting seasons, by species and flyway.

Species and Flyway	Immatures per adult ^{a, b}				
	2009	2010	2011	2012	2013
Lesser scaup					
Atlantic	0.52	0.80	1.18	0.46	0.58
Mississippi	0.53	1.54	1.55	0.66	1.15
Central	0.82	1.23	1.29	1.09	2.22
Pacific	1.37	1.07	1.29	2.07	1.41
U.S. Total	0.66	1.24	1.39	0.74	1.14
Ring-necked duck					
Atlantic	0.93	1.45	1.54	1.53	1.86
Mississippi	1.96	2.37	2.15	1.97	2.21
Central	1.00	1.09	1.42	1.03	1.49
Pacific	1.47	1.75	1.90	2.17	1.61
U.S. Total	1.37	1.85	1.81	1.71	1.93
Common goldeneye					
Atlantic	0.62	0.80	0.58	0.57	0.74
Mississippi	0.96	0.94	1.39	1.06	1.26
Central	0.47	0.84	0.98	1.24	1.23
Pacific	0.88	0.83	1.16	1.11	0.91
U.S. Total	0.84	0.88	1.14	1.01	1.05
Bufflehead					
Atlantic	0.47	0.62	0.97	1.02	1.21
Mississippi	1.17	0.94	1.49	0.96	0.80
Central	0.83	0.45	0.94	0.81	0.62
Pacific	0.87	1.02	1.31	1.18	0.73
U.S. Total	0.79	0.77	1.19	1.01	0.90
Ruddy duck					
Atlantic	1.90	0.63	2.64	1.39	1.50
Mississippi	1.22	0.89	2.62	1.61	2.51
Central	1.81	2.85	1.99	1.40	2.57
Pacific	1.21	1.92	4.13	1.00	1.62
U.S. Total	1.47	1.16	2.68	1.37	1.84
Hooded merganser					
Atlantic	0.99	0.77	0.66	0.52	0.73
Mississippi	1.18	1.09	1.06	0.60	1.22
Central	0.74	0.75	0.83	0.66	0.65
Pacific	1.09	3.83	1.74	1.17	0.95
U.S. Total	1.05	1.00	0.93	0.61	0.92

Table 9 (continued). Preliminary weighted age ratios of ducks harvested during the 2009-2013 hunting seasons, by species and flyway.

Species and Flyway	Immatures per adult ^{a, b}				
	2009	2010	2011	2012	2013
Common merganser					
Atlantic	1.04	1.51	1.62	1.39	1.28
Mississippi	---	---	0.78	---	2.26
Central	---	---	---	---	---
Pacific	0.56	1.03	1.86	0.39	0.90
U.S. Total	0.74	1.25	1.22	0.86	1.31
Red-breasted merganser					
Atlantic	0.74	1.27	1.17	0.56	1.38
Mississippi	0.73	---	0.40	2.08	1.92
U.S. Total	0.76	1.33	0.89	1.01	1.72
Long-tailed duck					
Atlantic	0.37	0.77	0.34	1.03	1.52
Mississippi	0.57	1.98	0.90	0.10	0.64
U.S. Total	0.43	1.04	0.54	0.71	1.04
Common eider					
Atlantic	0.23	0.30	0.21	0.38	0.18
U.S. Total	0.23	0.30	0.21	0.38	0.18
Black scoter					
Atlantic	0.41	0.66	0.59	0.67	1.27
U.S. Total	0.41	0.68	0.62	0.73	1.32
White-winged scoter					
Atlantic	0.15	0.76	2.02	---	2.07
Pacific	0.29	---	0.49	---	---
U.S. Total	0.43	1.18	1.91	3.73	2.17
Surf scoter					
Atlantic	0.21	0.60	0.58	3.68	0.47
Pacific	0.37	---	0.51	0.25	0.65
U.S. Total	0.29	1.08	0.71	2.52	0.55

^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 2009-2013 hunting seasons as determined from Waterfowl Parts Collection Survey.

State and Flyway	Males per female ^a				
	2009	2010	2011	2012	2013
Connecticut	2.0	2.2	1.7	2.3	2.2
Delaware	1.5	2.0	1.7	1.8	1.8
Florida	---	---	---	---	---
Georgia	2.4	1.3	2.1	1.7	1.9
Maine	1.4	1.2	1.5	1.2	1.7
Maryland	1.9	2.4	2.5	2.7	2.5
Massachusetts	1.5	1.6	1.6	2.0	1.9
New Hampshire	2.0	1.6	1.8	1.7	1.5
New Jersey	2.2	1.7	2.5	1.7	1.6
New York	1.7	1.8	1.7	1.9	1.9
North Carolina	2.0	1.6	1.9	2.0	1.4
Pennsylvania	2.1	2.2	2.2	1.8	2.1
Rhode Island	1.6	2.3	1.8	---	2.2
South Carolina	1.7	2.0	2.3	1.2	2.1
Vermont	1.0	1.4	1.5	2.0	1.7
Virginia	2.1	2.1	2.2	1.9	1.6
West Virginia	2.2	1.8	1.6	1.5	2.1
Atlantic Flyway Total ^b	1.86	1.84	1.95	1.83	1.87
Alabama	2.5	1.7	2.3	0.9	2.9
Arkansas	3.0	2.3	2.4	2.3	2.6
Illinois	2.2	2.1	2.6	1.8	2.5
Indiana	3.1	2.3	2.4	2.5	2.0
Iowa	1.7	2.5	2.2	2.4	2.6
Kentucky	2.6	2.5	2.0	2.5	1.9
Louisiana	2.8	1.9	1.2	1.7	1.5
Michigan	1.7	2.0	2.0	2.1	2.5
Minnesota	2.0	1.9	1.4	1.8	1.4
Mississippi	3.2	2.1	2.1	2.3	3.0
Missouri	3.3	3.1	2.3	2.9	2.6
Ohio	2.6	3.0	2.6	2.3	3.0
Tennessee	2.4	1.6	2.1	2.8	2.2
Wisconsin	2.0	2.2	2.2	2.0	2.1
Mississippi Flyway Total ^b	2.58	2.20	2.12	2.16	2.26

Table 10 (continued). Preliminary weighted sex ratios of mallards in state harvests during the 2009-2013 hunting seasons as determined from Waterfowl Parts Collection Survey.

State and Flyway	Males per female ^a				
	2009	2010	2011	2012	2013
Colorado	4.2	2.6	2.7	3.0	3.2
Kansas	5.8	4.0	3.9	4.2	4.7
Montana	4.1	3.7	3.3	3.2	4.9
Nebraska	4.9	3.4	4.9	3.2	4.3
New Mexico	3.3	4.3	3.1	6.0	3.8
North Dakota	2.5	2.2	2.4	2.3	2.2
Oklahoma	3.6	3.8	3.0	3.2	3.7
South Dakota	4.7	3.4	3.0	2.5	3.1
Texas	3.0	2.3	2.6	2.2	1.8
Wyoming	5.2	4.0	2.9	2.8	2.5
Central Flyway Total ^b	3.67	3.04	3.03	2.77	3.03
Arizona	1.4	1.6	1.2	1.5	1.6
California	2.3	2.2	2.1	2.2	2.5
Colorado	2.2	2.9	2.7	2.1	2.6
Idaho	2.5	3.1	2.6	3.1	2.9
Montana	2.4	3.4	3.4	1.9	2.7
Nevada	1.3	2.0	1.8	1.3	1.4
New Mexico	2.2	3.1	---	---	1.4
Oregon	1.9	1.8	2.0	2.0	2.3
Utah	2.6	2.9	2.4	2.1	2.1
Washington	2.3	2.2	2.1	2.0	1.9
Wyoming	1.7	2.4	1.6	1.6	2.1
Pacific Flyway Total ^b	2.23	2.30	2.17	2.22	2.38
Alaska	1.3	1.4	1.4	1.4	1.3
U.S. Total ^b	2.54	2.27	2.24	2.24	2.37

^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 2009-2013 hunting seasons, by species and flyway.

Species and Flyway	Males per female ^a				
	2009	2010	2011	2012	2013
Mallard					
Atlantic	1.86	1.84	1.95	1.83	1.87
Mississippi	2.58	2.20	2.12	2.16	2.26
Central	3.67	3.04	3.03	2.77	3.03
Pacific	2.23	2.30	2.17	2.22	2.38
U.S. Total	2.54	2.27	2.24	2.24	2.37
Black duck					
Atlantic	1.00	1.04	1.02	1.05	1.01
Mississippi	0.87	0.67	1.70	1.11	1.32
U.S. Total	0.96	0.94	1.16	1.06	1.08
Mottled duck					
Atlantic	0.98	0.82	1.18	1.21	1.34
Mississippi	1.05	1.18	0.78	1.10	1.38
Central	1.27	0.96	1.14	1.71	---
U.S. Total	1.06	1.07	0.91	1.22	1.31
Gadwall					
Atlantic	1.83	1.77	1.15	1.33	1.90
Mississippi	1.79	1.73	1.60	1.67	1.47
Central	1.66	1.69	1.58	1.59	1.64
Pacific	1.76	1.69	1.52	1.48	1.66
U.S. Total	1.75	1.72	1.57	1.62	1.55
American wigeon					
Atlantic	2.15	1.39	1.14	1.39	1.88
Mississippi	1.40	1.85	1.52	1.63	1.42
Central	2.02	1.85	1.90	1.99	1.94
Pacific	1.64	1.62	1.41	1.48	1.54
U.S. Total	1.70	1.66	1.49	1.62	1.63
Green-winged teal					
Atlantic	1.31	1.14	1.35	1.28	1.21
Mississippi	1.71	2.01	1.73	1.69	1.66
Central	1.73	1.82	2.16	2.15	1.73
Pacific	1.81	1.83	1.65	1.84	1.68
U.S. Total	1.70	1.84	1.74	1.78	1.64
Blue-winged/Cinnamon teal					
Atlantic	1.48	1.55	1.20	1.18	1.51
Mississippi	1.79	1.51	1.58	1.46	1.68
Central	1.46	1.58	1.53	1.38	1.47
Pacific	1.19	1.72	1.04	1.47	1.26
U.S. Total	1.64	1.54	1.49	1.42	1.60

Table 11 (continued). Preliminary weighted sex ratios of ducks harvested during the 2009-2013 hunting seasons, by species and flyway.

Species and Flyway	Males per female ^a				
	2009	2010	2011	2012	2013
Northern shoveler					
Atlantic	1.26	1.32	1.52	1.50	1.44
Mississippi	1.83	1.71	1.43	1.69	1.62
Central	1.42	1.35	1.41	1.48	1.30
Pacific	1.89	1.70	1.18	1.68	1.43
U.S. Total	1.72	1.63	1.33	1.64	1.47
Northern pintail					
Atlantic	1.25	2.43	1.78	1.13	2.36
Mississippi	3.04	2.11	1.83	2.35	2.19
Central	2.34	2.35	2.24	2.51	2.12
Pacific	2.72	2.69	2.30	2.46	2.47
U.S. Total	2.59	2.40	2.12	2.39	2.25
Wood duck					
Atlantic	2.15	2.17	1.92	1.96	1.91
Mississippi	1.83	1.86	1.98	1.83	1.93
Central	3.15	2.05	2.15	2.09	2.20
Pacific	1.61	1.77	1.64	1.88	1.58
U.S. Total	1.96	1.95	1.96	1.88	1.92
Redhead					
Atlantic	1.60	1.09	0.58	1.51	1.79
Mississippi	1.24	1.14	1.22	1.84	1.69
Central	1.11	1.38	1.50	1.50	1.62
Pacific	1.26	1.16	1.68	1.41	1.57
U.S. Total	1.20	1.22	1.33	1.60	1.66
Canvasback					
Atlantic	1.59	1.97	1.37	3.55	1.37
Mississippi	1.09	1.72	0.99	1.12	1.22
Central	1.10	1.16	0.74	1.40	1.42
Pacific	1.50	1.03	0.91	1.17	1.16
U.S. Total	1.24	1.49	0.90	1.24	1.25
Greater scaup					
Atlantic	1.38	1.38	1.06	1.15	1.41
Mississippi	1.02	0.73	1.18	0.89	0.94
Central	---	---	---	---	---
Pacific	2.06	1.61	2.14	1.33	1.98
U.S. Total	1.38	1.16	1.26	1.06	1.15

Table 11 (continued). Preliminary weighted sex ratios of ducks harvested during the 2009-2013 hunting seasons, by species and flyway.

Species and Flyway	Males per female ^a				
	2009	2010	2011	2012	2013
Lesser scaup					
Atlantic	2.57	2.32	2.24	3.58	2.87
Mississippi	2.08	1.37	2.03	2.55	1.35
Central	1.93	1.47	1.23	2.11	1.84
Pacific	1.80	1.06	1.07	1.42	1.38
U.S. Total	2.08	1.52	1.74	2.49	1.70
Ring-necked duck					
Atlantic	1.65	1.18	1.11	1.55	1.65
Mississippi	1.84	2.21	2.06	1.83	1.64
Central	2.36	1.94	3.02	3.35	2.24
Pacific	1.48	1.46	1.87	1.88	1.56
U.S. Total	1.82	1.82	1.79	1.87	1.70
Common goldeneye					
Atlantic	1.96	1.35	2.58	1.94	2.24
Mississippi	2.01	1.75	1.40	1.18	0.73
Central	2.67	1.09	1.07	2.09	1.35
Pacific	1.77	1.33	1.42	1.71	1.88
U.S. Total	1.91	1.44	1.48	1.59	1.31
Bufflehead					
Atlantic	2.38	1.74	1.90	1.37	1.67
Mississippi	1.45	1.55	1.41	1.97	1.62
Central	1.91	1.47	1.96	1.23	2.25
Pacific	1.81	1.04	1.23	1.02	1.21
U.S. Total	1.82	1.52	1.59	1.41	1.60
Hooded merganser					
Atlantic	2.30	3.04	2.43	2.43	2.07
Mississippi	4.77	2.82	1.54	1.60	3.03
Central	2.14	5.40	1.77	5.42	1.24
Pacific	1.37	---	1.99	3.17	---
U.S. Total	2.88	3.00	1.86	2.10	2.20
Common merganser					
Atlantic	0.87	0.73	1.12	1.22	0.86
Mississippi	---	---	---	---	---
Central	---	---	---	---	---
Pacific	1.19	0.88	1.34	1.20	0.82
U.S. Total	0.88	0.70	1.07	1.27	0.81

^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 2009-2013 hunting seasons, by species and flyway.

Species and Flyway	Immatures per adult ^{a, b}				
	2009	2010	2011	2012	2013
Canada goose					
Atlantic	0.37	0.63	0.34	0.46	0.47
Mississippi	0.47	0.55	0.52	0.40	0.39
Central	0.57	0.60	0.64	0.56	0.36
Pacific	0.50	0.45	0.50	0.45	0.60
U.S. Total	0.46	0.57	0.49	0.46	0.42
Snow goose					
Atlantic	0.26	0.44	0.77	0.33	0.50
Mississippi	0.20	0.30	0.62	0.22	0.99
Central	0.14	0.42	0.31	0.37	0.23
Pacific	0.67	0.59	0.84	0.74	0.35
U.S. Total	0.25	0.44	0.52	0.40	0.43
Blue goose					
Mississippi	0.50	0.54	0.64	0.36	0.64
Central	0.22	0.59	0.89	0.51	0.46
U.S. Total	0.35	0.57	0.75	0.46	0.56
Ross' goose					
Mississippi	---	---	---	---	---
Central	0.70	0.93	1.22	0.89	1.06
Pacific	0.10	0.19	0.31	0.15	0.36
U.S. Total	0.54	0.60	0.74	0.56	0.79
Greater white-fronted goose					
Mississippi	0.49	0.46	1.06	0.35	0.48
Central	0.61	0.70	0.87	0.70	0.76
Pacific	1.42	0.94	0.71	0.77	0.43
U.S. Total	0.72	0.66	0.87	0.56	0.53
Brant					
Atlantic	0.22	0.52	0.68	0.27	0.05
Pacific	1.35	0.51	1.01	0.39	0.12
U.S. Total	0.26	0.44	0.70	0.28	0.08

^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.

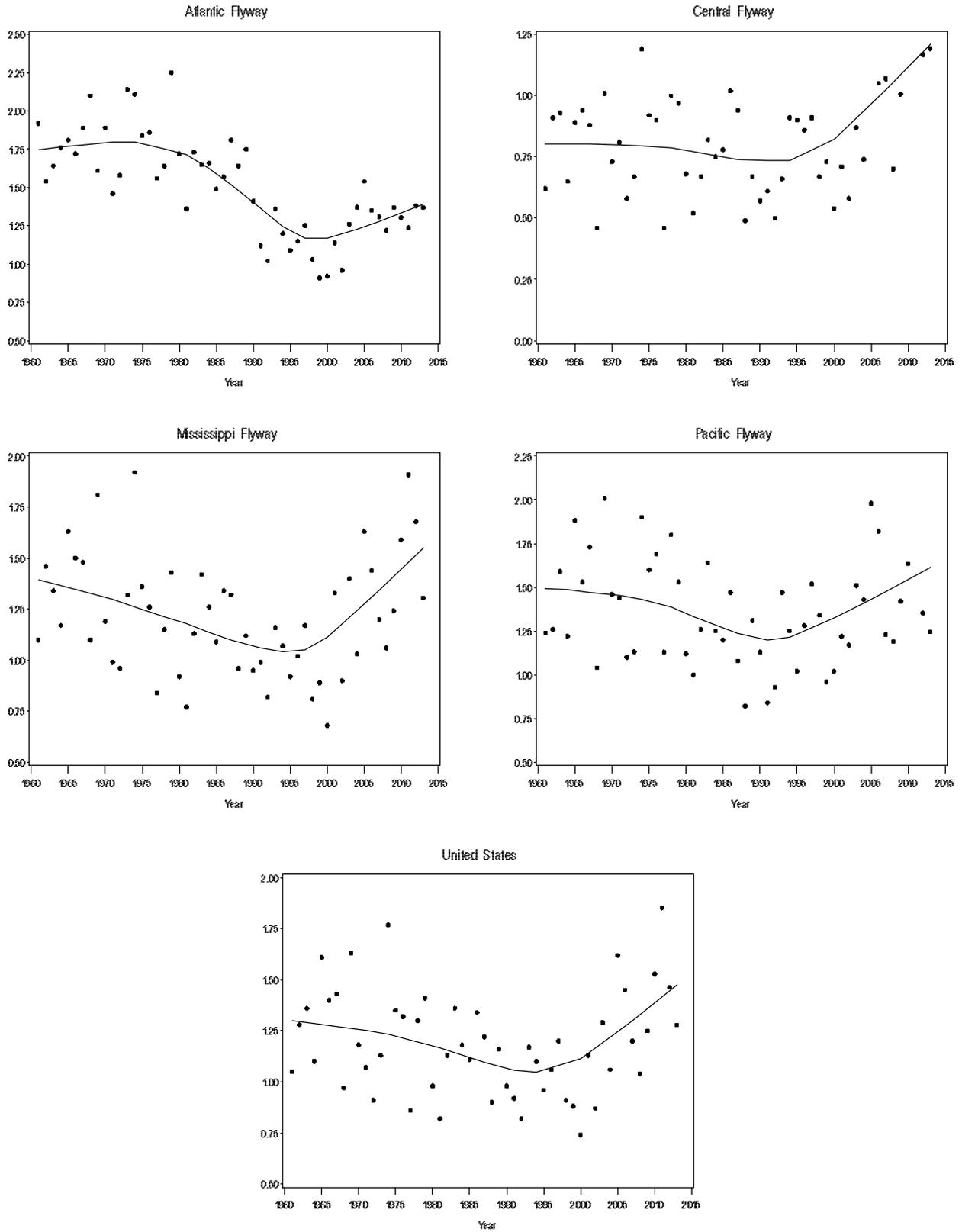


Figure 3. Age ratios of mallards harvested in the United States, 1961-2013.

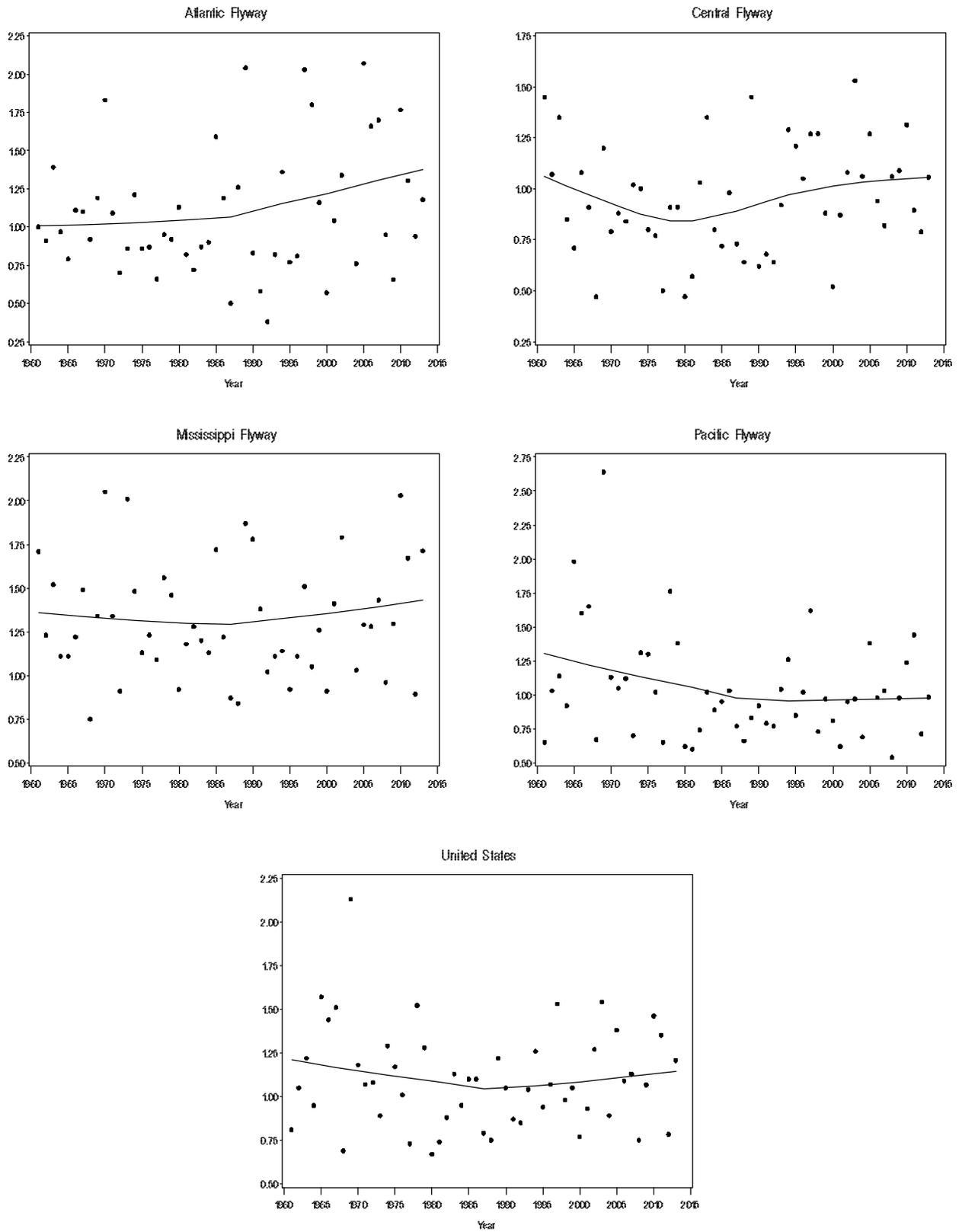
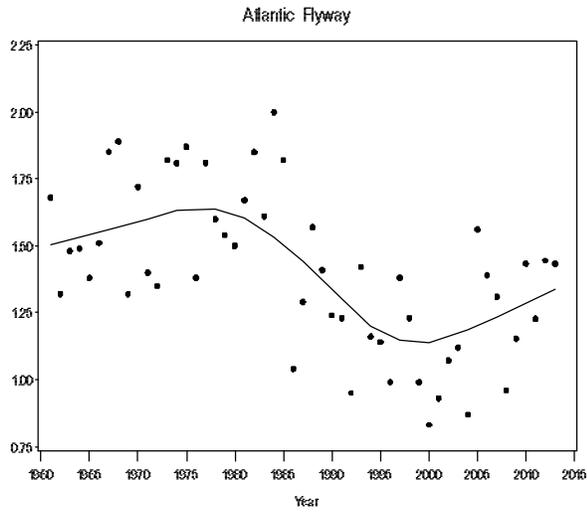


Figure 4. Age ratios of northern pintails harvested in the United States, 1961-2013.

American black ducks



Wood ducks

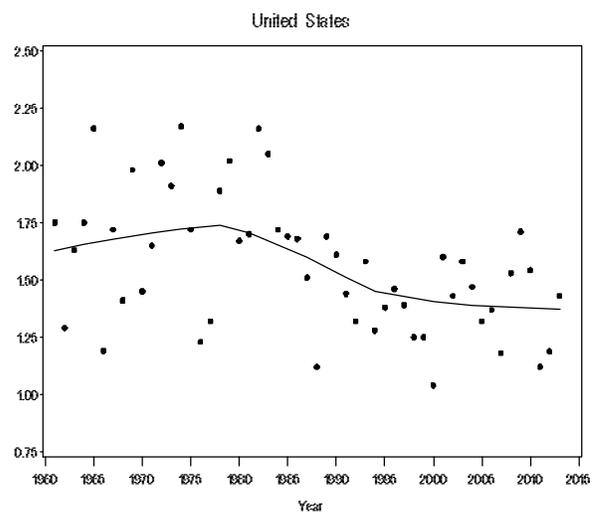
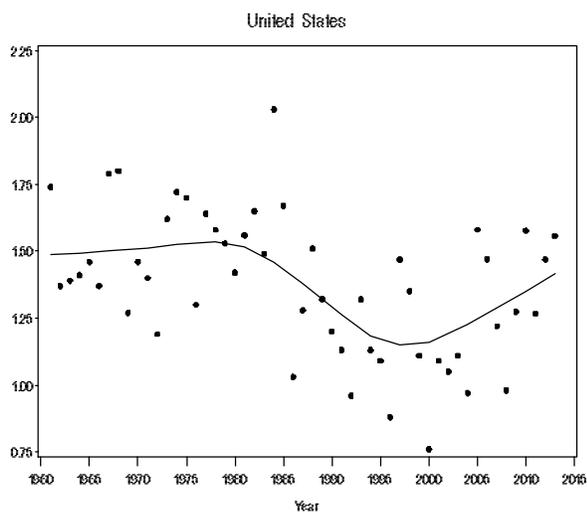
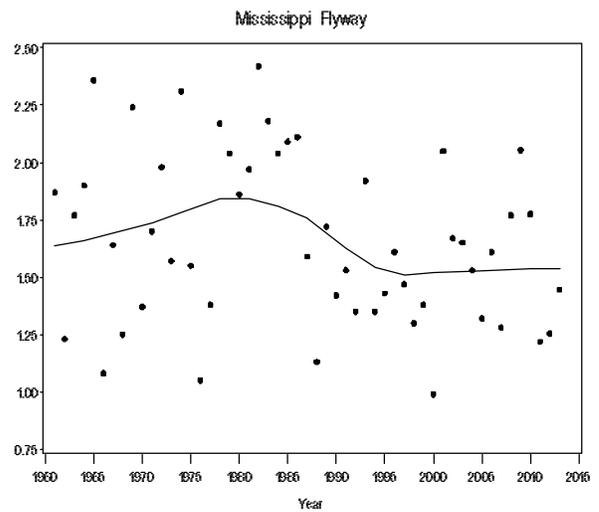
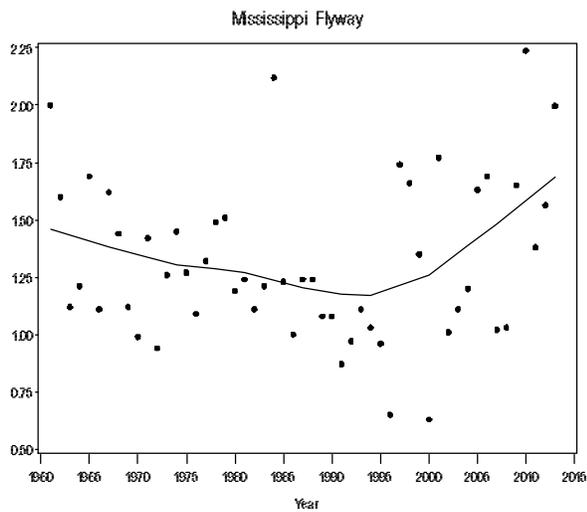
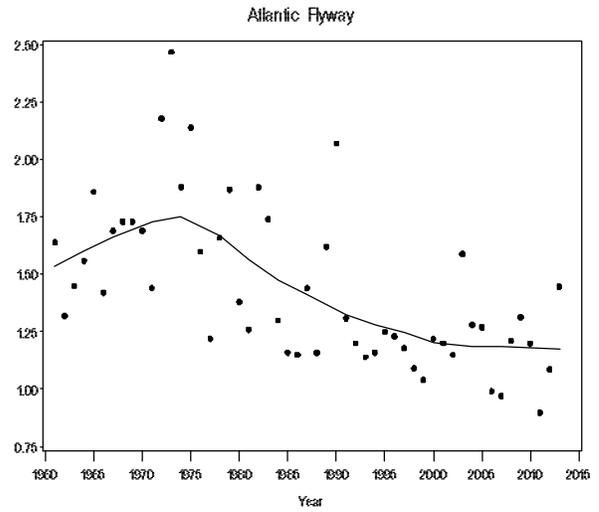


Figure 5. Age ratios of American black ducks (left column) and wood ducks (right column) harvested in the United States, 1961-2013.

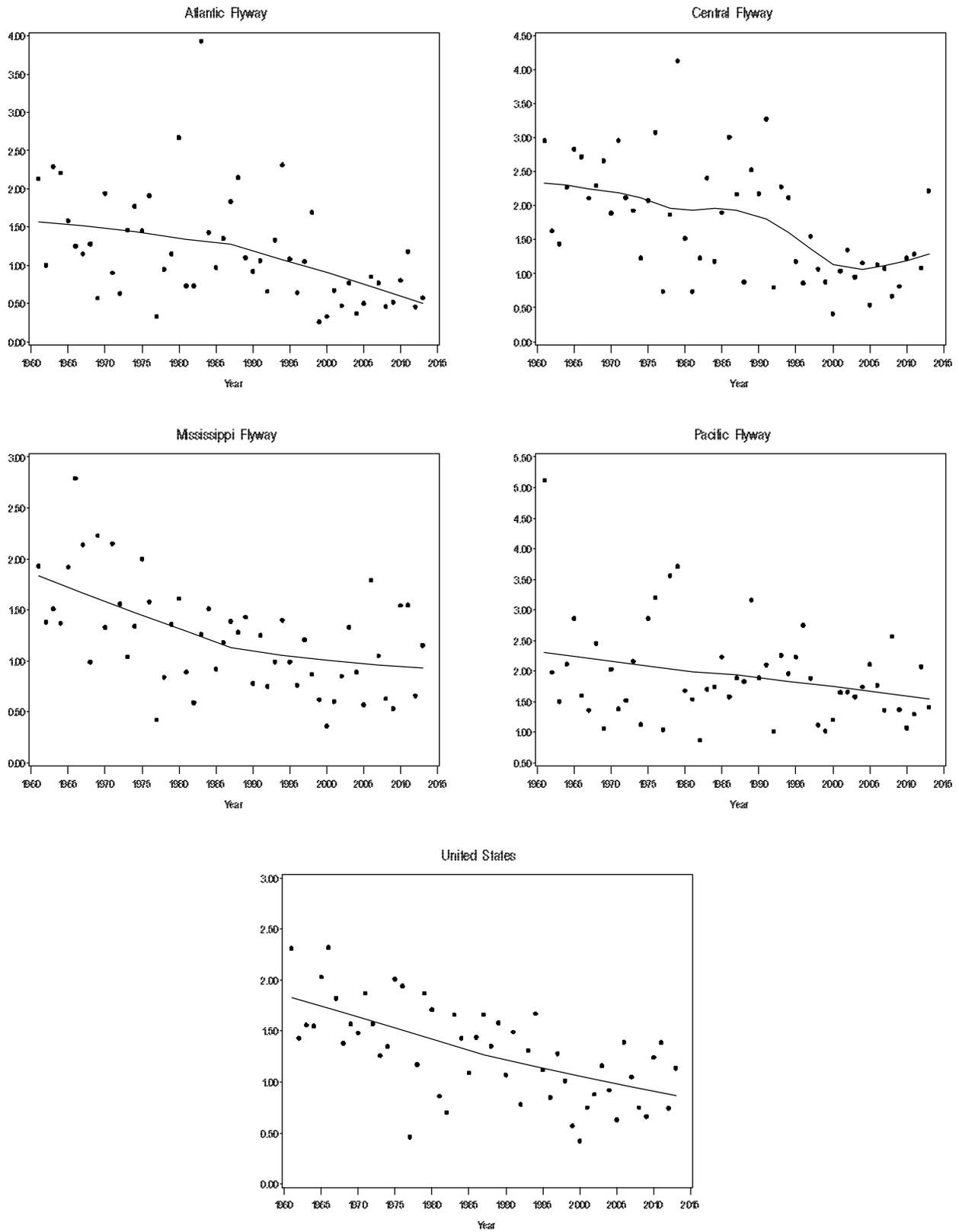


Figure 6. Age ratios of lesser scaup harvested in the United States, 1961-2013.

Table 13. Preliminary estimates of mourning dove harvest and hunter activity during the 2012 and 2013 hunting seasons ¹.

State and Management Unit	Mourning Dove Harvest		Active Hunters ²		Mourning Dove Days Afield		Seasonal Harvest Per Hunter	
	2012	2013	2012	2013	2012	2013	2012	2013
Alabama	687,100 ± 15%	634,200 ± 15%	38,500 ± 10%	36,800 ± 11%	116,400 ± 23%	91,400 ± 27%	17.8 ± 18%	17.2 ± 19%
Delaware	39,900 ± 28%	33,100 ± 57%	2,400 ± 21%	1,800 ± 42%	7,200 ± 30%	4,500 ± 48%	16.5 ± 36%	18.1 ± 71%
Florida	175,100 ± 28%	200,700 ± 56%	10,700 ± 32%	10,900 ± 36%	48,500 ± 59%	31,900 ± 35%	16.4 ± 43%	18.4 ± 66%
Georgia	735,700 ± 15%	851,600 ± 46%	35,600 ± 11%	47,600 ± 22%	94,600 ± 14%	125,000 ± 35%	20.7 ± 19%	17.9 ± 51%
Illinois	372,700 ± 26%	426,600 ± 23%	20,500 ± 17%	24,400 ± 18%	62,700 ± 22%	67,200 ± 23%	18.2 ± 31%	17.5 ± 29%
Indiana	263,300 ± 34%	160,100 ± 20%	14,100 ± 23%	7,700 ± 21%	40,700 ± 26%	24,400 ± 18%	18.7 ± 41%	20.8 ± 29%
Kentucky	511,800 ± 43%	632,900 ± 30%	21,500 ± 39%	29,500 ± 33%	61,100 ± 41%	82,300 ± 36%	23.8 ± 58%	21.5 ± 45%
Louisiana	354,100 ± 50%	625,400 ± 62%	17,800 ± 29%	24,800 ± 56%	60,400 ± 43%	74,700 ± 61%	19.9 ± 58%	25.2 ± 83%
Maryland	94,300 ± 25%	85,000 ± 22%	6,200 ± 22%	6,000 ± 22%	16,800 ± 26%	16,500 ± 30%	15.1 ± 33%	14.2 ± 32%
Mississippi	286,900 ± 28%	336,200 ± 24%	11,800 ± 15%	17,200 ± 15%	32,300 ± 23%	40,500 ± 22%	24.3 ± 32%	19.5 ± 29%
North Carolina	1,020,600 ± 22%	555,200 ± 24%	62,100 ± 16%	43,500 ± 18%	148,000 ± 18%	93,800 ± 20%	16.4 ± 27%	12.8 ± 30%
Ohio	136,000 ± 33%	371,600 ± 29%	8,600 ± 23%	19,900 ± 17%	33,500 ± 35%	65,600 ± 23%	15.8 ± 41%	18.6 ± 33%
Pennsylvania	203,200 ± 30%	250,700 ± 61%	18,000 ± 26%	17,700 ± 24%	60,200 ± 26%	60,300 ± 31%	11.3 ± 40%	14.2 ± 66%
Rhode Island	500 ± 77%	1,300 ± 122%	100 ± 47%	200 ± 55%	400 ± 61%	500 ± 54%	7.9 ± 91%	6.9 ± 134%
South Carolina	554,600 ± 30%	372,200 ± 32%	25,100 ± 21%	20,400 ± 25%	81,900 ± 28%	68,800 ± 30%	22.1 ± 36%	18.2 ± 41%
Tennessee	464,400 ± 26%	474,500 ± 29%	27,000 ± 18%	27,400 ± 19%	71,300 ± 25%	64,200 ± 26%	17.2 ± 31%	17.4 ± 35%
Virginia	295,900 ± 19%	251,500 ± 19%	19,900 ± 14%	16,900 ± 14%	45,100 ± 15%	40,600 ± 17%	14.9 ± 24%	14.8 ± 24%
West Virginia	10,300 ± 33%	15,000 ± 38%	1,000 ± 24%	1,300 ± 28%	1,900 ± 42%	2,300 ± 34%	10.7 ± 41%	11.5 ± 47%
Wisconsin	73,200 ± 31%	72,800 ± 35%	8,900 ± 32%	9,000 ± 31%	32,700 ± 29%	33,600 ± 34%	8.3 ± 44%	8.1 ± 47%
Eastern Unit Total	6,279,900 ± 8%	6,350,600 ± 11%	349,600	363,100	1,015,600 ± 7%	987,900 ± 9%		
Arkansas	494,200 ± 30%	155,900 ± 46%	21,400 ± 22%	8,900 ± 41%	57,600 ± 26%	30,100 ± 57%	23.1 ± 37%	17.5 ± 62%
Colorado	204,300 ± 26%	176,900 ± 25%	17,000 ± 18%	15,600 ± 15%	43,800 ± 26%	36,900 ± 19%	12.0 ± 32%	11.3 ± 29%
Iowa ³	-	214,300 ± 16%	-	12,900 ± 9%	-	49,400 ± 14%	-	16.6 ± 18%
Kansas	244,800 ± 62%	504,400 ± 18%	12,200 ± 39%	31,900 ± 12%	49,100 ± 52%	93,000 ± 16%	20.1 ± 73%	15.8 ± 22%
Minnesota	65,400 ± 75%	53,500 ± 30%	6,800 ± 52%	7,700 ± 55%	21,600 ± 48%	17,000 ± 40%	9.7 ± 91%	7.0 ± 62%
Missouri	296,600 ± 81%	587,600 ± 28%	23,800 ± 29%	36,400 ± 11%	51,400 ± 50%	104,500 ± 18%	12.4 ± 86%	16.2 ± 30%
Montana	2,600 ± 161%	12,000 ± 41%	200 ± 87%	1,700 ± 46%	500 ± 120%	2,900 ± 41%	13.3 ± 183%	7.1 ± 62%
Nebraska	223,400 ± 20%	239,800 ± 24%	13,200 ± 17%	13,500 ± 15%	39,000 ± 17%	39,300 ± 19%	16.9 ± 26%	17.7 ± 28%
New Mexico	160,100 ± 17%	123,000 ± 15%	9,000 ± 11%	6,500 ± 10%	38,000 ± 17%	23,700 ± 13%	17.8 ± 20%	18.9 ± 18%
North Dakota	78,900 ± 37%	88,200 ± 37%	4,900 ± 30%	6,300 ± 29%	17,400 ± 36%	16,400 ± 28%	16.0 ± 48%	14.1 ± 47%
Oklahoma	349,700 ± 26%	421,200 ± 25%	15,700 ± 14%	23,300 ± 14%	49,200 ± 19%	69,400 ± 24%	22.3 ± 30%	18.1 ± 28%
South Dakota	65,500 ± 28%	118,300 ± 31%	4,500 ± 22%	6,200 ± 22%	14,700 ± 28%	17,500 ± 26%	14.4 ± 36%	19.0 ± 38%
Texas	4,150,800 ± 20%	3,506,700 ± 18%	207,200 ± 13%	178,900 ± 13%	720,200 ± 16%	677,900 ± 16%	20.0 ± 24%	19.6 ± 22%
Wyoming	25,300 ± 40%	34,200 ± 19%	2,700 ± 32%	3,100 ± 17%	6,300 ± 38%	7,200 ± 20%	9.3 ± 51%	10.9 ± 26%
Central Unit Total	6,361,600 ± 14%	6,236,000 ± 11%	338,700	353,000	1,108,700 ± 11%	1,185,300 ± 10%		
Arizona	601,200 ± 16%	774,800 ± 18%	32,100 ± 9%	36,300 ± 16%	110,800 ± 14%	134,300 ± 21%	18.7 ± 18%	21.3 ± 24%
California	900,000 ± 10%	828,300 ± 11%	65,200 ± 7%	63,600 ± 8%	192,200 ± 10%	163,200 ± 9%	13.8 ± 12%	13.0 ± 13%
Idaho	127,600 ± 25%	157,300 ± 42%	9,700 ± 22%	13,300 ± 21%	32,200 ± 35%	39,100 ± 32%	13.1 ± 33%	11.9 ± 47%
Nevada	26,900 ± 36%	31,900 ± 30%	3,600 ± 26%	3,800 ± 24%	7,400 ± 26%	9,900 ± 31%	7.5 ± 44%	8.4 ± 39%
Oregon	64,100 ± 32%	28,400 ± 43%	12,000 ± 19%	3,400 ± 35%	28,900 ± 24%	10,500 ± 43%	5.3 ± 38%	8.3 ± 55%
Utah	78,000 ± 43%	80,200 ± 80%	13,200 ± 22%	16,000 ± 33%	30,800 ± 31%	31,200 ± 45%	5.9 ± 48%	5.0 ± 87%
Washington	51,500 ± 30%	42,500 ± 41%	4,900 ± 26%	4,800 ± 29%	11,300 ± 27%	11,500 ± 43%	10.6 ± 40%	8.8 ± 50%
Western Unit Total	1,849,400 ± 8%	1,943,300 ± 10%	140,700	141,200	413,700 ± 7%	399,800 ± 9%		
U.S. Total	14,490,900 ± 7%	14,529,800 ± 7%	828,900	857,300	2,538,000 ± 6%	2,572,900 ± 6%		

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 No estimates available for the 2012 season.

Table 14. Preliminary estimates of white-winged dove harvest and hunter activity during the 2012 and 2013 hunting seasons ¹.

State and Management Unit	White-winged Dove Harvest		Active Hunters ²		White-winged Dove Days Afield		Seasonal Harvest Per Hunter	
	2012	2013	2012	2013	2012	2013	2012	2013
Alabama	3,100 ± 72%	4,900 ± 67%	1,500 ± 60%	1,700 ± 66%	5,100 ± 80%	5,000 ± 63%	2.1 ± 94%	2.9 ± 94%
Delaware	0	0	0	0	0	0	0	0
Florida	5,600 ± 114%	19,500 ± 50%	1,900 ± 93%	3,900 ± 70%	5,400 ± 101%	14,500 ± 69%	3.0 ± 147%	5.0 ± 86%
Georgia	8,700 ± 149%	4,300 ± 187%	1,300 ± 69%	1,600 ± 172%	5,500 ± 93%	4,300 ± 187%	6.9 ± 164%	2.7 ± 253%
Louisiana	6,600 ± 90%	0	1,900 ± 92%	0	12,900 ± 116%	0	3.5 ± 129%	0
Maryland	0	0	0	0	0	0	0	0
Mississippi	500 ± 142%	1,700 ± 110%	200 ± 129%	600 ± 104%	300 ± 150%	1,300 ± 93%	2.6 ± 192%	2.9 ± 151%
North Carolina	0	0	0	0	0	0	0	0
Pennsylvania	100 ± 194%	0	100 ± 137%	0	500 ± 137%	0	0.5 ± 238%	0
Rhode Island	0	0	0	0	0	0	0	0
South Carolina	1,200 ± 138%	<50 ± 194%	1,300 ± 127%	600 ± 183%	1,600 ± 114%	1,400 ± 160%	0.9 ± 188%	0.1 ± 266%
Virginia	200 ± 159%	300 ± 140%	100 ± 136%	100 ± 116%	300 ± 149%	500 ± 142%	2.5 ± 210%	2.6 ± 182%
Eastern Unit Total	0	30,600 ± 43%	8,800	8,400	33,900 ± 52%	27,000 ± 50%		
Colorado	8,500 ± 86%	2,300 ± 73%	2,400 ± 65%	1,700 ± 50%	5,600 ± 60%	2,800 ± 42%	3.6 ± 107%	1.3 ± 89%
Kansas	0	2,600 ± 93%	0	1,600 ± 69%	0	4,300 ± 80%	0	1.6 ± 115%
New Mexico	79,500 ± 28%	33,800 ± 20%	4,800 ± 15%	3,100 ± 14%	24,400 ± 22%	13,100 ± 19%	16.6 ± 32%	10.8 ± 24%
Oklahoma	3,600 ± 66%	5,300 ± 86%	900 ± 58%	3,900 ± 45%	3,600 ± 57%	11,400 ± 61%	4.1 ± 88%	1.4 ± 97%
Texas	1,414,800 ± 32%	1,299,700 ± 28%	108,100 ± 19%	93,800 ± 19%	423,300 ± 24%	360,000 ± 22%	13.1 ± 37%	13.8 ± 34%
Central Unit Total	1,508,500 ± 30%	1,343,700 ± 28%	117,000	104,300	460,600	391,500 ± 21%		
Arizona	86,000 ± 22%	100,000 ± 35%	14,600 ± 15%	18,400 ± 26%	47,400 ± 16%	60,500 ± 27%	5.9 ± 27%	5.4 ± 43%
California	42,200 ± 31%	48,900 ± 33%	11,000 ± 22%	12,700 ± 22%	33,100 ± 29%	31,800 ± 24%	3.8 ± 38%	3.8 ± 40%
Nevada	200 ± 85%	3,300 ± 111%	300 ± 98%	600 ± 78%	500 ± 75%	2,500 ± 108%	0.8 ± 130%	6.0 ± 135%
Utah	500 ± 110%	0	100 ± 79%	1,100 ± 181%	200 ± 95%	1,100 ± 181%	4.4 ± 136%	0
Western Unit Total	130,300 ± 18%	152,200 ± 25%	26,400	32,800	82,500 ± 15%	95,900 ± 19%		
U.S. Total	1,669,000 ± 27%	1,526,500 ± 24%	152,200	145,500	577,000 ± 18%	514,400 ± 16%		

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 2012 and 2013 hunting seasons ¹.

State and Management Unit	Band-tailed Pigeon Harvest		Active Hunters ²		Band-tailed Pigeon Days Afield		Seasonal Harvest Per Hunter	
	2012	2013	2012	2013	2012	2013	2012	2013
Arizona	1,300 ± 75%	900 ± 125%	1,100 ± 57%	400 ± 137%	4,800 ± 79%	800 ± 126%	1.2 ± 95%	2.3 ± 185%
Colorado	1,100 ± 61%	<50 ± 140%	300 ± 39%	200 ± 39%	1,300 ± 66%	500 ± 48%	3.8 ± 73%	0.2 ± 145%
New Mexico	300 ± 38%	200 ± 30%	100 ± 18%	100 ± 16%	500 ± 27%	400 ± 26%	2.3 ± 42%	1.7 ± 34%
Utah	100 ± 143%	500 ± 196%	100 ± 93%	300 ± 196%	200 ± 99%	300 ± 196%	0.8 ± 170%	2.0 ± 277%
Interior Total	2,800 ± 43%	1,600 ± 92%	1,600	1,000	6,800 ± 57%	2,000 ± 60%		
California	9,100 ± 44%	4,700 ± 50%	3,300 ± 38%	2,700 ± 46%	8,200 ± 50%	4,600 ± 42%	2.8 ± 58%	1.7 ± 68%
Oregon	1,500 ± 29%	1,600 ± 40%	500 ± 15%	400 ± 19%	1,200 ± 22%	1,200 ± 29%	3.1 ± 32%	3.8 ± 45%
Washington	200 ± 76%	500 ± 166%	100 ± 28%	100 ± 0%	400 ± 71%	400 ± 107%	2.1 ± 81%	3.6 ± 166%
Pacific Coast Total	10,900 ± 37%	6,700 ± 38%	3,900	3,300	9,800 ± 42%	6,200 ± 33%		
U.S. Total	13,700 ± 31%	8,300 ± 35%	5,500	4,300	16,600 ± 34%	8,200 ± 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 16. Preliminary estimates of woodcock harvest and hunter activity during the 2012 and 2013 hunting seasons¹.

State and Management Region	Woodcock Harvest		Active Hunters ²		Woodcock Days Afield		Seasonal Harvest Per Hunter	
	2012	2013	2012	2013	2012	2013	2012	2013
Connecticut	1,700 ± 38%	1,200 ± 52%	700 ± 24%	800 ± 31%	3,800 ± 29%	3,600 ± 33%	2.5 ± 44%	1.5 ± 61%
Delaware	800 ± 121%	200 ± 103%	300 ± 80%	<50 ± 93%	1,000 ± 90%	200 ± 109%	2.7 ± 145%	4.3 ± 139%
Florida	12,600 ± 187%	1,000 ± 148%	4,900 ± 134%	1,800 ± 184%	14,800 ± 134%	3,800 ± 119%	2.6 ± 230%	0.6 ± 236%
Georgia	800 ± 80%	800 ± 97%	1,500 ± 145%	800 ± 79%	5,700 ± 151%	2,500 ± 89%	0.5 ± 166%	1.0 ± 126%
Maine	9,600 ± 56%	5,800 ± 43%	3,400 ± 41%	2,200 ± 46%	16,100 ± 58%	8,800 ± 35%	2.9 ± 70%	2.6 ± 63%
Maryland	2,400 ± 153%	1,900 ± 107%	1,300 ± 86%	1,200 ± 96%	2,200 ± 95%	2,000 ± 81%	1.8 ± 176%	1.6 ± 143%
Massachusetts	1,900 ± 27%	2,400 ± 44%	800 ± 26%	900 ± 39%	4,200 ± 22%	4,800 ± 34%	2.3 ± 37%	2.6 ± 59%
New Hampshire	3,800 ± 29%	8,000 ± 29%	1,100 ± 36%	2,600 ± 29%	6,900 ± 31%	13,000 ± 25%	3.4 ± 46%	3.0 ± 41%
New Jersey	3,100 ± 65%	7,400 ± 71%	1,200 ± 59%	2,000 ± 37%	5,800 ± 65%	11,000 ± 48%	2.6 ± 88%	3.7 ± 80%
New York	8,400 ± 33%	11,700 ± 38%	4,800 ± 36%	3,900 ± 31%	22,900 ± 50%	15,300 ± 29%	1.7 ± 48%	3.0 ± 49%
North Carolina	13,400 ± 168%	1,400 ± 95%	1,000 ± 69%	1,900 ± 134%	8,200 ± 114%	8,200 ± 106%	14.0 ± 181%	0.7 ± 164%
Pennsylvania	13,500 ± 68%	8,200 ± 42%	6,900 ± 33%	6,400 ± 37%	28,500 ± 39%	29,600 ± 41%	2.0 ± 75%	1.3 ± 56%
Rhode Island	300 ± 91%	300 ± 58%	100 ± 98%	100 ± 27%	1,200 ± 137%	400 ± 40%	2.3 ± 134%	4.0 ± 64%
South Carolina	7,900 ± 128%	2,100 ± 177%	2,500 ± 129%	3,000 ± 109%	5,500 ± 115%	13,000 ± 127%	3.2 ± 182%	0.7 ± 208%
Vermont	3,000 ± 62%	4,100 ± 39%	700 ± 51%	1,400 ± 34%	5,100 ± 45%	8,600 ± 56%	4.1 ± 80%	3.0 ± 51%
Virginia	1,200 ± 42%	5,700 ± 80%	600 ± 101%	2,200 ± 65%	2,600 ± 90%	11,300 ± 112%	2.0 ± 109%	2.5 ± 103%
West Virginia	2,000 ± 46%	300 ± 58%	700 ± 32%	200 ± 92%	3,200 ± 44%	600 ± 60%	2.8 ± 56%	1.6 ± 109%
Eastern Region Total	86,400 ± 42%	62,500 ± 17%	32,500	31,400	137,800 ± 23%	136,700 ± 20%		
Alabama	3,500 ± 136%	1,400 ± 129%	2,300 ± 131%	1,000 ± 175%	4,900 ± 139%	1,500 ± 121%	1.5 ± 189%	1.4 ± 217%
Arkansas	4,200 ± 194%	100 ± 195%	1,100 ± 180%	100 ± 137%	3,200 ± 190%	300 ± 140%	3.7 ± 265%	0.5 ± 238%
Illinois	1,900 ± 160%	1,000 ± 142%	900 ± 175%	1,600 ± 128%	3,500 ± 172%	3,400 ± 119%	2.2 ± 237%	0.7 ± 191%
Indiana	600 ± 84%	1,400 ± 84%	400 ± 119%	700 ± 77%	1,500 ± 122%	1,600 ± 58%	1.5 ± 146%	2.0 ± 114%
Iowa	0	4,200 ± 80%	900 ± 149%	1,800 ± 85%	4,400 ± 161%	8,300 ± 118%	0	2.3 ± 117%
Kansas	1,300 ± 139%	<50 ± 183%	1,300 ± 86%	400 ± 192%	5,100 ± 101%	1,100 ± 193%	1.0 ± 163%	<0.1 ± 265%
Kentucky	200 ± 159%	2,800 ± 196%	<50 ± 121%	1,000 ± 193%	300 ± 135%	1,900 ± 194%	11.5 ± 200%	3.0 ± 275%
Louisiana	20,000 ± 115%	7,400 ± 169%	4,800 ± 67%	2,500 ± 165%	11,000 ± 74%	2,500 ± 165%	4.1 ± 133%	2.9 ± 236%
Michigan	74,100 ± 28%	79,300 ± 28%	25,700 ± 17%	30,000 ± 19%	121,400 ± 22%	123,700 ± 24%	2.9 ± 33%	2.6 ± 34%
Minnesota	31,000 ± 59%	18,600 ± 57%	11,200 ± 36%	10,900 ± 37%	40,400 ± 34%	74,700 ± 62%	2.8 ± 70%	1.7 ± 68%
Mississippi	200 ± 117%	2,600 ± 164%	100 ± 65%	1,200 ± 127%	200 ± 79%	2,600 ± 131%	2.5 ± 134%	2.2 ± 207%
Missouri	900 ± 110%	7,700 ± 176%	1,300 ± 162%	2,900 ± 91%	2,000 ± 112%	8,500 ± 117%	0.7 ± 196%	2.6 ± 198%
Nebraska	1,300 ± 196%	0	600 ± 196%	600 ± 196%	4,500 ± 196%	600 ± 196%	2.0 ± 277%	0
Ohio	1,500 ± 80%	8,600 ± 85%	600 ± 115%	3,000 ± 63%	2,600 ± 83%	8,600 ± 64%	2.5 ± 140%	2.9 ± 106%
Oklahoma	600 ± 187%	300 ± 129%	1,100 ± 136%	<50 ± 68%	3,400 ± 144%	200 ± 121%	0.5 ± 231%	8.4 ± 146%
Tennessee	1,500 ± 115%	1,300 ± 185%	100 ± 94%	1,200 ± 192%	700 ± 103%	1,300 ± 179%	16.8 ± 149%	1.0 ± 267%
Texas	9,900 ± 192%	5,500 ± 174%	4,900 ± 195%	4,900 ± 194%	9,800 ± 195%	5,200 ± 182%	2.0 ± 273%	1.1 ± 260%
Wisconsin	40,400 ± 37%	38,400 ± 24%	13,700 ± 28%	14,500 ± 27%	58,000 ± 33%	60,000 ± 31%	3.0 ± 47%	2.6 ± 36%
Central Region Total	193,000 ± 23%	180,600 ± 20%	71,200	78,400	276,900 ± 16%	306,100 ± 20%		
U.S. Total	279,500 ± 21%	243,100 ± 15%	103,700	109,800	414,700 ± 13%	442,800 ± 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 17. Preliminary estimates of snipe harvest and hunter activity during the 2012 and 2013 hunting seasons ¹.

State and Management Unit	Snipe Harvest		Active Hunters ²		Snipe Days Afield		Seasonal Harvest Per Hunter	
	2012	2013	2012	2013	2012	2013	2012	2013
Connecticut	200 ± 193%	<50 ± 176%	100 ± 136%	100 ± 168%	300 ± 152%	300 ± 180%	3.0 ± 236%	0.4 ± 243%
Delaware	0	100 ± 112%	100 ± 142%	<50 ± 68%	100 ± 113%	400 ± 82%	0.0	1.4 ± 131%
Florida	10,600 ± 70%	26,100 ± 66%	3,700 ± 69%	3,400 ± 80%	6,700 ± 60%	8,200 ± 55%	2.9 ± 98%	7.6 ± 104%
Georgia	300 ± 128%	0	100 ± 110%	0	400 ± 115%	0	5.0 ± 169%	0.0
Maine	100 ± 118%	<50 ± 193%	<50 ± 83%	<50 ± 193%	100 ± 107%	<50 ± 193%	1.6 ± 144%	1.0 ± 272%
Maryland	1,300 ± 93%	100 ± 138%	300 ± 46%	100 ± 109%	1,100 ± 64%	400 ± 128%	4.1 ± 104%	2.7 ± 176%
Massachusetts	<50 ± 146%	100 ± 87%	100 ± 85%	200 ± 67%	400 ± 106%	600 ± 81%	0.3 ± 169%	0.6 ± 110%
New Hampshire	600 ± 195%	<50 ± 186%	100 ± 195%	<50 ± 186%	900 ± 195%	<50 ± 186%	8.0 ± 275%	1.0 ± 263%
New Jersey	700 ± 140%	0	200 ± 112%	<50 ± 185%	600 ± 138%	<50 ± 185%	3.3 ± 179%	0.0
New York	200 ± 117%	100 ± 135%	100 ± 95%	100 ± 110%	400 ± 108%	200 ± 114%	2.3 ± 151%	0.7 ± 175%
North Carolina	800 ± 196%	1,200 ± 196%	800 ± 138%	400 ± 196%	1,500 ± 138%	1,600 ± 196%	1.0 ± 239%	3.0 ± 277%
Pennsylvania	100 ± 192%	0	<50 ± 192%	0	100 ± 192%	0	4.0 ± 271%	0.0
Rhode Island	<50 ± 188%	0	<50 ± 188%	0	<50 ± 188%	0	2.0 ± 265%	0.0
South Carolina	9,500 ± 145%	3,500 ± 112%	2,000 ± 108%	700 ± 167%	3,400 ± 124%	1,600 ± 151%	4.6 ± 181%	5.0 ± 201%
Vermont	400 ± 195%	<50 ± 127%	100 ± 132%	200 ± 180%	2,000 ± 184%	400 ± 175%	2.9 ± 235%	0.2 ± 220%
Virginia	1,000 ± 184%	1,700 ± 158%	200 ± 175%	300 ± 149%	900 ± 140%	1,500 ± 131%	6.0 ± 254%	6.6 ± 218%
West Virginia	<50 ± 174%	0	<50 ± 174%	<50 ± 186%	<50 ± 174%	<50 ± 186%	5.0 ± 245%	0.0
Atlantic Flyway Total	25,700 ± 62%	33,000 ± 54%	7,900	5,500	18,900 ± 41%	15,200 ± 42%		
Alabama	1,800 ± 96%	1,300 ± 162%	100 ± 82%	2,800 ± 132%	700 ± 102%	3,200 ± 118%	13.6 ± 127%	0.5 ± 209%
Arkansas	0	3,300 ± 196%	0	1,600 ± 196%	0	1,600 ± 196%	0.0	2.0 ± 277%
Illinois	100 ± 194%	0	<50 ± 194%	0	<50 ± 194%	0	2.0 ± 274%	0.0
Indiana	3,700 ± 125%	200 ± 59%	1,000 ± 128%	100 ± 36%	4,400 ± 168%	300 ± 48%	3.6 ± 179%	2.8 ± 69%
Iowa	1,100 ± 134%	600 ± 171%	100 ± 95%	1,100 ± 132%	300 ± 123%	2,500 ± 134%	14.3 ± 164%	0.6 ± 216%
Kentucky	0	0	0	0	0	0	0.0	0.0
Louisiana	7,400 ± 87%	5,000 ± 127%	3,000 ± 79%	1,000 ± 138%	8,500 ± 99%	2,600 ± 109%	2.5 ± 118%	5.1 ± 187%
Michigan	500 ± 195%	2,500 ± 147%	200 ± 137%	2,100 ± 160%	900 ± 139%	18,300 ± 183%	3.0 ± 238%	1.2 ± 217%
Minnesota	2,800 ± 126%	5,200 ± 95%	2,400 ± 89%	2,800 ± 88%	4,000 ± 87%	6,100 ± 92%	1.2 ± 155%	1.9 ± 129%
Mississippi	0	0	600 ± 196%	0	600 ± 196%	0	0.0	0.0
Missouri	800 ± 196%	0	1,600 ± 138%	0	1,600 ± 138%	0	0.5 ± 239%	0.0
Ohio	0	0	100 ± 194%	0	100 ± 194%	0	0.0	0.0
Tennessee	0	0	0	0	0	0	0.0	0.0
Wisconsin	1,100 ± 172%	3,000 ± 163%	1,100 ± 176%	1,400 ± 175%	1,300 ± 148%	11,400 ± 171%	1.0 ± 246%	2.2 ± 239%
Mississippi Flyway Total	19,400 ± 48%	21,200 ± 58%	10,200	13,000	22,500 ± 54%	46,000 ± 86%		

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 2012 and 2013 hunting seasons ¹.

State and Management Unit	Snipe Harvest		Active Hunters ²		Snipe Days Afield		Seasonal Harvest Per Hunter	
	2012	2013	2012	2013	2012	2013	2012	2013
Colorado	400 ± 195%	0	100 ± 135%	0	600 ± 143%	0	2.5 ± 237%	0.0
Kansas	100 ± 164%	<50 ± 131%	<50 ± 115%	<50 ± 124%	<50 ± 139%	<50 ± 139%	15.0 ± 201%	1.5 ± 180%
Nebraska	0	500 ± 196%	400 ± 196%	500 ± 196%	400 ± 196%	500 ± 196%	0.0	1.0 ± 277%
New Mexico	0	400 ± 194%	0	200 ± 192%	0	400 ± 194%	0.0	2.0 ± 273%
North Dakota	200 ± 71%	200 ± 56%	500 ± 173%	600 ± 161%	1,000 ± 156%	1,800 ± 164%	0.5 ± 187%	0.3 ± 170%
Oklahoma	4,000 ± 157%	500 ± 131%	1,100 ± 133%	900 ± 179%	6,100 ± 169%	2,600 ± 181%	3.7 ± 206%	0.5 ± 222%
South Dakota	100 ± 67%	100 ± 126%	300 ± 169%	<50 ± 101%	1,000 ± 182%	100 ± 109%	0.5 ± 182%	4.0 ± 161%
Texas	800 ± 135%	200 ± 137%	2,800 ± 188%	100 ± 133%	5,800 ± 181%	100 ± 141%	0.3 ± 231%	4.0 ± 191%
Wyoming	600 ± 87%	100 ± 84%	300 ± 70%	<50 ± 53%	600 ± 78%	100 ± 62%	1.9 ± 112%	2.9 ± 99%
Central Flyway Total	6,100 ± 105%	1,900 ± 72%	5,500	2,300	15,700 ± 96%	5,600 ± 103%		
Arizona	0	100 ± 189%	<50 ± 133%	<50 ± 134%	100 ± 141%	300 ± 180%	0.0	3.5 ± 232%
California	6,300 ± 145%	2,400 ± 77%	2,200 ± 77%	700 ± 133%	4,500 ± 92%	1,400 ± 77%	2.9 ± 164%	3.3 ± 154%
Idaho	900 ± 160%	7,900 ± 188%	700 ± 127%	800 ± 185%	1,400 ± 132%	3,900 ± 140%	1.2 ± 204%	9.8 ± 264%
Montana	100 ± 186%	300 ± 141%	<50 ± 186%	100 ± 72%	<50 ± 186%	200 ± 83%	5.0 ± 264%	3.7 ± 158%
Nevada	100 ± 111%	<50 ± 102%	100 ± 158%	100 ± 171%	200 ± 105%	100 ± 171%	0.6 ± 193%	0.2 ± 199%
Oregon	3,400 ± 169%	500 ± 180%	1,500 ± 92%	800 ± 126%	5,200 ± 102%	1,000 ± 107%	2.2 ± 192%	0.6 ± 220%
Utah	200 ± 160%	700 ± 112%	100 ± 111%	300 ± 96%	500 ± 146%	900 ± 151%	1.7 ± 195%	2.5 ± 148%
Washington	2,200 ± 129%	500 ± 70%	1,300 ± 112%	200 ± 35%	4,900 ± 147%	800 ± 86%	1.7 ± 171%	3.1 ± 78%
Pacific Flyway Total	13,100 ± 86%	12,400 ± 122%	6,100	3,000	16,900 ± 60%	8,600 ± 69%		
Alaska	600 ± 145%	600 ± 143%	700 ± 145%	1,000 ± 121%	1,300 ± 93%	1,500 ± 127%	0.8 ± 205%	0.6 ± 188%
U.S. Total	64,900 ± 35%	69,100 ± 38%	30,300	24,700	75,400 ± 31%	76,900 ± 53%		

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 2012 and 2013 hunting seasons ¹.

State and Management Unit	Coot Harvest		Active Hunters ²		Coot Days Afield		Seasonal Harvest Per Hunter	
	2012	2013	2012	2013	2012	2013	2012	2013
Connecticut	200 ± 191%	0	100 ± 108%	100 ± 194%	300 ± 125%	100 ± 194%	2.0 ± 219%	0.0
Delaware	100 ± 125%	100 ± 125%	<50 ± 101%	100 ± 60%	<50 ± 116%	300 ± 91%	6.0 ± 160%	1.7 ± 139%
Florida	1,400 ± 121%	2,800 ± 144%	200 ± 85%	200 ± 137%	1,000 ± 103%	600 ± 144%	5.6 ± 148%	15.0 ± 199%
Georgia	1,700 ± 155%	500 ± 145%	1,400 ± 176%	200 ± 137%	1,800 ± 145%	400 ± 160%	1.2 ± 234%	3.0 ± 200%
Maine	<50 ± 185%	0	300 ± 184%	<50 ± 193%	1,000 ± 186%	<50 ± 193%	<0.1 ± 261%	0.0
Maryland	700 ± 92%	200 ± 174%	200 ± 57%	100 ± 93%	1,100 ± 82%	400 ± 122%	3.7 ± 108%	2.8 ± 197%
Massachusetts	100 ± 100%	100 ± 81%	100 ± 109%	<50 ± 70%	100 ± 109%	100 ± 76%	1.1 ± 148%	1.3 ± 107%
New Hampshire	100 ± 195%	100 ± 157%	100 ± 195%	<50 ± 124%	900 ± 195%	100 ± 124%	2.0 ± 275%	6.5 ± 200%
New Jersey	600 ± 106%	100 ± 158%	200 ± 108%	100 ± 167%	300 ± 112%	300 ± 131%	2.6 ± 151%	1.0 ± 230%
New York	3,000 ± 93%	2,100 ± 120%	800 ± 85%	1,000 ± 92%	2,800 ± 126%	4,200 ± 117%	3.7 ± 126%	2.2 ± 151%
North Carolina	400 ± 196%	11,700 ± 130%	400 ± 196%	3,400 ± 111%	3,900 ± 196%	6,900 ± 122%	1.0 ± 277%	3.4 ± 171%
Pennsylvania	<50 ± 192%	0	<50 ± 192%	0	100 ± 192%	0	1.0 ± 271%	0.0
Rhode Island	400 ± 132%	0	100 ± 115%	0	200 ± 148%	0	5.6 ± 175%	0.0
South Carolina	1,500 ± 189%	2,500 ± 192%	100 ± 133%	600 ± 190%	500 ± 183%	2,800 ± 173%	29.0 ± 231%	4.0 ± 270%
Vermont	100 ± 195%	<50 ± 176%	100 ± 195%	200 ± 190%	100 ± 195%	400 ± 185%	1.0 ± 275%	0.1 ± 259%
Virginia	2,500 ± 135%	3,400 ± 177%	400 ± 96%	300 ± 128%	1,600 ± 57%	1,500 ± 108%	6.1 ± 166%	11.5 ± 219%
West Virginia	100 ± 129%	0	<50 ± 122%	<50 ± 186%	100 ± 137%	<50 ± 186%	7.5 ± 177%	0.0
Atlantic Flyway Total	12,800 ± 49%	23,600 ± 75%	4,500	6,300	15,700 ± 59%	18,100 ± 61%		
Alabama	9,300 ± 153%	300 ± 116%	1,300 ± 176%	100 ± 92%	1,800 ± 134%	100 ± 92%	7.0 ± 234%	2.3 ± 148%
Arkansas	0	1,600 ± 196%	1,200 ± 196%	1,800 ± 177%	3,700 ± 196%	1,800 ± 177%	0.0	0.9 ± 264%
Illinois	1,400 ± 196%	100 ± 195%	700 ± 196%	1,100 ± 181%	700 ± 196%	10,300 ± 194%	2.0 ± 277%	0.1 ± 266%
Indiana	400 ± 75%	4,600 ± 185%	100 ± 47%	600 ± 168%	300 ± 71%	3,100 ± 183%	4.6 ± 89%	8.2 ± 250%
Iowa	1,000 ± 181%	500 ± 52%	1,000 ± 185%	100 ± 36%	1,100 ± 175%	500 ± 59%	1.0 ± 259%	3.4 ± 63%
Kentucky	0	0	0	0	0	0	0.0	0.0
Louisiana	105,000 ± 76%	151,700 ± 66%	6,700 ± 53%	5,100 ± 59%	25,400 ± 64%	24,600 ± 81%	15.7 ± 93%	29.8 ± 88%
Michigan	17,500 ± 136%	2,300 ± 196%	4,700 ± 83%	400 ± 134%	14,600 ± 126%	2,100 ± 145%	3.7 ± 160%	5.5 ± 237%
Minnesota	7,400 ± 187%	7,300 ± 109%	600 ± 175%	1,500 ± 113%	1,800 ± 141%	2,100 ± 93%	12.1 ± 256%	4.7 ± 157%
Mississippi	0	1,400 ± 196%	0	700 ± 196%	0	2,800 ± 196%	0.0	2.0 ± 277%
Missouri	2,500 ± 196%	2,900 ± 196%	800 ± 196%	600 ± 196%	800 ± 196%	2,900 ± 196%	3.0 ± 277%	5.0 ± 277%
Ohio	1,000 ± 106%	5,200 ± 117%	200 ± 104%	2,300 ± 129%	3,100 ± 130%	4,000 ± 121%	5.3 ± 149%	2.2 ± 174%
Tennessee	4,600 ± 142%	0	3,100 ± 188%	0	6,300 ± 185%	0	1.5 ± 236%	0.0
Wisconsin	500 ± 107%	8,700 ± 90%	1,200 ± 168%	1,600 ± 155%	21,600 ± 188%	12,600 ± 154%	0.4 ± 199%	5.5 ± 179%
Mississippi Flyway Total	150,500 ± 57%	186,500 ± 55%	21,600	16,000	81,200 ± 61%	66,900 ± 54%		

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 2012 and 2013 hunting seasons ¹.

State and Management Unit	Coot Harvest		Active Hunters ²		Coot Days Afield		Seasonal Harvest Per Hunter	
	2012	2013	2012	2013	2012	2013	2012	2013
Colorado	2,200 ± 146%	2,800 ± 137%	700 ± 125%	1,300 ± 91%	1,700 ± 126%	6,500 ± 126%	3.2 ± 192%	2.1 ± 165%
Kansas	1,200 ± 130%	1,000 ± 196%	700 ± 137%	500 ± 196%	800 ± 130%	500 ± 196%	1.7 ± 188%	2.0 ± 277%
Nebraska	1,600 ± 196%	1,400 ± 196%	400 ± 196%	500 ± 196%	800 ± 196%	500 ± 196%	4.0 ± 277%	3.0 ± 277%
New Mexico	200 ± 196%	100 ± 110%	200 ± 196%	<50 ± 67%	200 ± 196%	<50 ± 84%	1.0 ± 277%	2.8 ± 129%
North Dakota	3,600 ± 132%	1,900 ± 106%	1,000 ± 116%	700 ± 148%	2,100 ± 117%	1,600 ± 129%	3.8 ± 176%	2.9 ± 182%
Oklahoma	600 ± 133%	3,800 ± 102%	600 ± 185%	2,500 ± 109%	1,000 ± 114%	5,000 ± 133%	1.0 ± 228%	1.6 ± 149%
South Dakota	200 ± 66%	1,300 ± 120%	<50 ± 48%	700 ± 133%	200 ± 89%	1,100 ± 138%	5.6 ± 81%	1.8 ± 179%
Texas	100 ± 193%	600 ± 133%	<50 ± 193%	100 ± 89%	200 ± 193%	300 ± 117%	3.0 ± 274%	6.0 ± 160%
Wyoming	3,200 ± 134%	600 ± 120%	400 ± 65%	100 ± 108%	1,800 ± 87%	300 ± 98%	9.2 ± 149%	4.0 ± 161%
Central Flyway Total	12,900 ± 62%	13,500 ± 52%	3,900	6,400	8,800 ± 49%	15,800 ± 70%		
Arizona	<50 ± 141%	300 ± 136%	<50 ± 133%	100 ± 94%	100 ± 149%	500 ± 160%	1.5 ± 194%	5.0 ± 165%
California	12,700 ± 69%	13,200 ± 58%	3,100 ± 64%	2,500 ± 77%	6,800 ± 62%	4,600 ± 49%	4.1 ± 94%	5.3 ± 97%
Idaho	4,400 ± 106%	6,100 ± 194%	1,700 ± 85%	800 ± 185%	4,700 ± 119%	4,700 ± 144%	2.6 ± 136%	7.6 ± 268%
Montana	100 ± 99%	100 ± 148%	<50 ± 88%	<50 ± 106%	100 ± 104%	200 ± 115%	1.8 ± 132%	2.7 ± 182%
Nevada	900 ± 73%	700 ± 80%	300 ± 93%	200 ± 106%	1,800 ± 102%	400 ± 98%	3.2 ± 118%	3.2 ± 132%
Oregon	1,600 ± 108%	800 ± 117%	1,600 ± 88%	500 ± 144%	3,200 ± 118%	800 ± 108%	1.0 ± 139%	1.6 ± 185%
Utah	7,800 ± 61%	6,400 ± 80%	1,800 ± 49%	1,500 ± 61%	5,600 ± 52%	2,600 ± 63%	4.2 ± 78%	4.4 ± 100%
Washington	4,900 ± 162%	3,700 ± 76%	1,800 ± 96%	600 ± 122%	7,600 ± 113%	2,100 ± 78%	2.8 ± 188%	6.2 ± 144%
Pacific Flyway Total	32,500 ± 42%	31,300 ± 49%	10,400	6,200	29,800 ± 41%	15,800 ± 48%		
U.S. Total	208,700 ± 42%	254,900 ± 41%	40,500	34,800	135,600 ± 39%	116,700 ± 34%		

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 2012 and 2013 hunting seasons ¹.

State and Management Unit	Gallinule Harvest		Active Hunters ²		Gallinule Days Afield		Seasonal Harvest Per Hunter	
	2012	2013	2012	2013	2012	2013	2012	2013
Delaware	0	0	0	<50 ± 105%	0	200 ± 121%	0.0	0.0
Florida	400 ± 193%	2,100 ± 195%	<50 ± 193%	100 ± 195%	200 ± 193%	100 ± 195%	12.0 ± 273%	30.0 ± 275%
Georgia	0	0	<50 ± 191%	0	<50 ± 191%	0	0.0	0.0
New Jersey	0	0	0	0	0	0	0.0	0.0
New York	0	0	0	0	0	0	0.0	0.0
North Carolina	0	0	0	0	0	0	0.0	0.0
Pennsylvania	0	0	0	0	0	0	0.0	0.0
South Carolina	100 ± 192%	600 ± 191%	<50 ± 192%	<50 ± 191%	<50 ± 192%	200 ± 191%	3.0 ± 271%	30.0 ± 270%
Virginia	100 ± 180%	100 ± 183%	<50 ± 180%	<50 ± 183%	200 ± 180%	100 ± 183%	10.0 ± 254%	11.0 ± 258%
West Virginia	0	0	0	<50 ± 186%	0	<50 ± 186%	0.0	0.0
Atlantic Flyway Total	600 ± 150%	2,800 ± 153%	100	100	500 ± 111%	700 ± 84%		
Alabama	0	0	0	0	0	0	0.0	0.0
Arkansas	0	0	0	0	0	0	0.0	0.0
Kentucky	0	0	0	0	0	0	0.0	0.0
Louisiana	14,300 ± 141%	13,200 ± 110%	900 ± 125%	1,300 ± 104%	5,300 ± 145%	4,600 ± 77%	15.9 ± 188%	10.2 ± 151%
Michigan	0	0	0	0	0	0	0.0	0.0
Minnesota	0	100 ± 195%	0	100 ± 195%	0	100 ± 195%	0.0	1.0 ± 275%
Mississippi	0	0	0	0	0	0	0.0	0.0
Ohio	0	0	0	0	0	0	0.0	0.0
Tennessee	0	0	0	0	0	0	0.0	0.0
Wisconsin	0	2,100 ± 196%	<50 ± 192%	1,100 ± 191%	100 ± 192%	1,200 ± 179%	0.0	2.0 ± 274%
Mississippi Flyway Total	14,300 ± 141%	15,400 ± 98%	900	2,400	5,400 ± 144%	5,800 ± 71%		
New Mexico	2,600 ± 196%	0	200 ± 196%	0	1,200 ± 196%	0	13.0 ± 277%	0.0
Oklahoma	200 ± 184%	0	400 ± 192%	800 ± 196%	500 ± 148%	800 ± 196%	0.4 ± 266%	0.0
Texas	0	2,800 ± 196%	0	2,800 ± 196%	0	2,800 ± 196%	0.0	1.0 ± 277%
Central Flyway Total	2,800 ± 184%	2,800 ± 196%	600	3,600	1,800 ± 142%	3,600 ± 160%	0	
Arizona	0	0	0	0	0	0	0.0	0.0
California	3,500 ± 193%	200 ± 121%	300 ± 186%	<50 ± 105%	1,800 ± 191%	200 ± 123%	11.5 ± 268%	8.3 ± 161%
Nevada	100 ± 194%	100 ± 194%	100 ± 185%	100 ± 137%	100 ± 185%	100 ± 137%	1.9 ± 269%	0.5 ± 238%
Pacific Flyway Total	5,200 ± 143%	300 ± 104%	700	200	2,500 ± 142%	300 ± 92%		
U.S. Total	22,900 ± 97%	21,300 ± 78%	2,300	6,300	10,200 ± 88%	10,300 ± 68%		

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 2012 and 2013 hunting seasons ¹.

State and Management Unit	Rail Harvest		Active Hunters ²		Rail Days Afield		Seasonal Harvest Per Hunter	
	2012	2013	2012	2013	2012	2013	2012	2013
Connecticut	0	<50 ± 173%	<50 ± 193%	100 ± 182%	200 ± 193%	100 ± 188%	0.0	0.1 ± 251%
Delaware	<50 ± 176%	0	<50 ± 176%	<50 ± 105%	<50 ± 176%	200 ± 121%	4.0 ± 249%	0.0
Florida	600 ± 193%	1,100 ± 148%	<50 ± 193%	200 ± 108%	200 ± 193%	500 ± 142%	17.0 ± 273%	5.3 ± 183%
Georgia	1,400 ± 137%	0	100 ± 110%	0	100 ± 135%	0	23.7 ± 176%	0.0
Maine	0	0	0	0	0	0	0.0	0.0
Maryland	100 ± 171%	1,900 ± 194%	100 ± 125%	500 ± 187%	300 ± 136%	1,200 ± 164%	1.6 ± 212%	3.9 ± 269%
Massachusetts	<50 ± 161%	<50 ± 120%	<50 ± 153%	<50 ± 152%	100 ± 153%	100 ± 137%	0.4 ± 222%	0.5 ± 194%
New Jersey	3,500 ± 91%	1,500 ± 87%	300 ± 84%	200 ± 115%	600 ± 91%	400 ± 113%	11.0 ± 124%	7.3 ± 144%
New York	0	0	<50 ± 190%	200 ± 196%	<50 ± 190%	900 ± 196%	0.0	0.0
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	5,400 ± 73%	3,000 ± 70%	200 ± 62%	800 ± 155%	500 ± 71%	1,000 ± 125%	31.7 ± 96%	3.9 ± 170%
Virginia	3,700 ± 82%	2,000 ± 79%	100 ± 43%	300 ± 131%	500 ± 85%	400 ± 105%	39.5 ± 93%	6.9 ± 153%
West Virginia	<50 ± 172%	0	<50 ± 172%	<50 ± 186%	<50 ± 172%	<50 ± 186%	4.0 ± 244%	0.0
Atlantic Flyway Total	14,800 ± 43%	9,600 ± 53%	800	2,300	2,600 ± 41%	4,800 ± 63%		
Alabama	200 ± 192%	0	<50 ± 192%	0	200 ± 192%	0	10.0 ± 271%	0.0
Arkansas	0	0	0	0	0	0	0.0	0.0
Illinois	100 ± 193%	0	<50 ± 193%	0	100 ± 193%	0	2.0 ± 273%	0.0
Indiana	300 ± 120%	200 ± 160%	200 ± 169%	400 ± 131%	300 ± 126%	500 ± 116%	1.5 ± 207%	0.6 ± 207%
Iowa	0	0	0	0	0	0	0.0	0.0
Kentucky	0	0	0	0	0	0	0.0	0.0
Louisiana	700 ± 139%	7,600 ± 145%	100 ± 137%	500 ± 76%	600 ± 137%	3,000 ± 85%	5.0 ± 195%	15.8 ± 164%
Michigan	0	400 ± 134%	0	400 ± 134%	0	1,200 ± 134%	0.0	1.0 ± 189%
Minnesota	100 ± 194%	0	100 ± 194%	100 ± 195%	100 ± 194%	100 ± 195%	1.0 ± 275%	0.0
Mississippi	0	0	0	0	0	0	0.0	0.0
Missouri	0	1,100 ± 196%	0	600 ± 196%	0	600 ± 196%	0.0	2.0 ± 277%
Ohio	0	900 ± 196%	0	900 ± 196%	0	900 ± 196%	0.0	1.0 ± 277%
Tennessee	0	0	0	0	0	0	0.0	0.0
Wisconsin	100 ± 192%	100 ± 192%	<50 ± 192%	100 ± 136%	100 ± 192%	400 ± 148%	4.0 ± 272%	1.5 ± 235%
Mississippi Flyway Total	1,500 ± 79%	10,400 ± 110%	500	2,900	1,300 ± 76%	6,500 ± 57%		
Colorado	0	0	<50 ± 192%	0	<50 ± 192%	0	0.0	0.0
Kansas	0	200 ± 171%	0	<50 ± 171%	0	<50 ± 171%	0.0	55.0 ± 242%
Nebraska	0	0	400 ± 196%	0	400 ± 196%	0	0.0	0.0
New Mexico	0	200 ± 195%	0	200 ± 195%	0	200 ± 195%	0.0	1.0 ± 276%
Oklahoma	700 ± 122%	3,100 ± 135%	400 ± 184%	1,500 ± 136%	600 ± 133%	3,000 ± 154%	1.6 ± 221%	2.0 ± 192%
Texas	0	0	0	<50 ± 191%	0	<50 ± 191%	0.0	0.0
Wyoming	0	<50 ± 167%	<50 ± 150%	<50 ± 117%	<50 ± 150%	<50 ± 128%	0.0	1.5 ± 204%
Central Flyway Total	700 ± 122%	3,500 ± 119%	800	1,700	1,000 ± 107%	3,300 ± 143%		
U.S. Total	16,900 ± 38%	23,500 ± 56%	2,200	6,900	4,900 ± 37%	14,600 ± 46%		

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 21. Preliminary estimates of rail harvest during the 2012 and 2013 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	
	2012	2013	2012	2013	2012	2013	2012	2013
Atlantic	2,100	1,700	100	100	12,600	7,800	0	0
Mississippi	1,400	9,500	<50	100	100	800	<50	<50
Central	600	3,400	<50	100	0	0	0	0
U.S. Total	4,100	14,500	100	300	12,700	8,600	<50	<50

Appendix A. Names and affiliations 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
Robert Bowles, Alaska Department of Fish and Game
Anis Aoude, Arizona Game and Fish Department
Susan Porter, Arkansas Game and Fish Commission
Tony Straw, California Department of Fish and Game
Ed Gorman, Colorado Parks and Wildlife
Min Huang, Connecticut Department of Environmental Protection
Matthew DiBona, Delaware Department of Natural Resources and Environmental Control
Cindy Whittington, Florida Fish and Wildlife Conservation Commission
Michael Spencer, Georgia Department of Natural Resources
Craig Weidmeier, Idaho Department of Fish and Game
Don Bricker, Illinois Department of Natural Resources
Adam Phelps, Indiana Department of Natural Resources
Matthew VanGundy, Iowa Department of Natural Resources
Mary Becker, Kansas Department of Wildlife, Parks, and Tourism
Denise Boebinger, Kentucky Department of Fish and Wildlife Resources
Michelle Rayburn, Louisiana Department of Wildlife and Fisheries
Bill Swan, Maine Department of Inland Fisheries and Wildlife
Brent Evans, Maryland Wildlife and Heritage Service
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 Thornhill, Mississippi Department of Wildlife, Fisheries and Parks
Julie Fleming, Missouri Department of Conservation
Hank Worsech, Montana 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
Kristin Madden, New Mexico Department of Game and Fish
Mary Bailey, New York Department of Environmental Conservation
Harvey White and Bobby Dunn, North Carolina Wildlife Resources Commission
Jerel Gulke, North Dakota Game and Fish Department
Andrew Burt, Ohio Department of Natural Resources
Rodney Derrick, Oklahoma Department of Wildlife Conservation
Brandon Reishus, Oregon Department of Fish and Wildlife
Terry Heckrote, Pennsylvania Game Commission
Ed Ferris, Rhode Island Division of Fish and Wildlife
Boyd Braxton, South Carolina Department of Natural Resources
Corey Huxoll, South Dakota Game, Fish, and Parks
Gary Clouse, Tennessee Wildlife Resources Agency
Kevin Kraii, Texas Parks and Wildlife Department
Blair Stringham, Utah Division of Wildlife Resources

Kris Nolan, Vermont Fish and Wildlife Department
Bob Ellis and Gary Costanzo, Virginia Department of Game and Inland Fisheries
Andrew Duff, Washington Department of Fish and Wildlife
Lisa Boggess, West Virginia Division of Natural Resources
Brian Dhuey, Wisconsin Department of Natural Resources
Matthew Barnes, Wyoming Game and Fish Department

Appendix B. Names and affiliations of waterfowl wingbee participants.

Atlantic Flyway Wingbee, Laurel, MD; January 27 to 31, 2014

J. Bennett, MD DNR; A. Bessler, USFWS; P. Bosco, USFWS; S. Chandler, USFWS/DMBM; R. Coup, PA GC; Z. Cravens, USFWS Patuxent Research Refuge; E. Edwards, USFWS; J. Edwards, USFWS; C. Ferguson, USFWS (Retired); P. Garrettson, USFWS/DMBM-PHAB; T. Hoppe, PA GC; T. Keller, PA GC; J. Klimstra, USFWS/DMBM; T. Lama, USFWS R5; T. Liddick, USFWS/DMBM; W. Martin, USFWS (Retired); K. McCargo, NC WRC; G. Mireles, USFWS Back Bay NWR; C. Nemes, USFWS Patuxent Research Refuge; N. North, Canadian Wildlife Service (Retired); J. O'Connor, NY DEC; P. Padding, USFWS/DMBM; M. Peters, WV DNR; B. Raftovich, USFWS/DMBM; B. Rau, USFWS/DMBM-PHAB; W. Rhodes, USFWS/DMBM; B. Rosamond, USFWS North MS National Wildlife Refuge Complex; N. Sagwitz, MD DNR; B. Sharick, NY DEC (Retired); M. Simmons, USFWS Patuxent Research Refuge; F. Simms, USFWS; C. Wicker, USFWS Patuxent Research Refuge.

Mississippi Flyway Wingbee, Carbondale, IL; February 3 to 7, 2014

P. Brickel, MI DNR; C. Bryan, USFWS Crab Orchard NWR; G. Buckert, KY DFW; B. Burrows, IA DNR; J. Carbaugh, AR GFC; S. Chandler, USFWS/DMBM; R. Colvis, KY DFW; J. Darling, MI DNR; K. Delahunt, IL DNR; R. Eastridge, USFWS; M. Ervin, OH DOW; D. Fronczak, USFWS/DMBM-MS Flyway; D. Fuqua, TN WRC; C. Grotke, OH DOW; J. Hager, MO DOC; J. Hanks, LA DWF; J. Hartleb, USFWS; J. Hughes, LA DWF; M. Kapsch, USFWS; A. Kellner, IA DNR; G. Knutsen, USFWS-Agassiz NWR; B. Launey, LA DWF; K. Mangan, USFWS-Cypress Creek NWR; C. Netland, MN DNR; C. Plush, KY FWC; B. Raftovich, USFWS/DMBM; D. Rave, MN DNR; J. Schiering, OH DOW; R. Vinson, USDA; B. Walker, USFWS-Big Oaks NWR; R. Whitton, IL DNR.

Central Flyway Wingbee, Emporia, KS; February 18 to 21, 2014

C. August, TX PWD; T. Bidrowski, KS DWPT; L. Bischof, ND GFD; M. Brandt, NE GPC; D. Butler, TX PWD; S. Chandler, USFWS; J. Dubovsky, USFWS; J. Edwardson, USFWS; K. Ertl, USFWS; A. Friesen, KS DWPT; J. Gammonley, CO DPW; M. Grovijahn, SD GFP; R. Gurria, Tamaulipas Wildlife Commission; L. Hancock, USFWS Flint Hills nwr; K. Hartke, TX PWD; M. Haugen, University of Nebraska-Lincoln; M. Johnson, ND GFD; K. Kraai, TX PWD; K. Kruse, USFWS; J. Lange, USFWS; T. Liddick, USFWS; K. Madden, NM DGF; K. Madsen, USFWS; T. Menard, USFWS; B. Meskimen, OK DWC; R. Mize, TX PWD; R. Murano, SD GFP; J. Neal, OK DWC; B. Raftovich, USFWS; J. Richardson, OK DWC; L. Roberts, WY GFD.; J. Roesner, USFWS CLNWR; N. Saake, NV DOW (Retired); P. Schmidt, USFWS; K. Schoonover, OK DWC; R. Schultheis, KS DWPT; J. Solberg, USFWS (Retired); B. Streger, NE GPC; R. Stutheit, NE GPC; M. Szymanski, ND GFD.; P. Thorpe, USFWS; J. Tofteland, ND GFD; R. Uhrmacher, KS DWPT; J. Valentine, USFWS SKDNWR; M. Vrtiska, NE GPC; R. Warhurst, DU; B. West, USFWS.

Pacific Flyway Wingbee, Anderson, CA; February 24 to 28, 2014

A. Anderson, USFWS R7; D. Bachman, USFWS; B. Bales, PCJV; J. Bredy, USFWS; P. Bridge, USFWS Lake Havasu NWRC; M. Carpenter, USFWS SAC NWRC; S. Chandler, USFWS/DMBM; J. Chiu, USFWS; C. Dau, USFWS R7; S. Evans-Peters, PCJV; G. Gerstenberg, CA DFW; M. Harris, CA DFW; J. Krueger, USFWS-Minidoka NWR; J. Laughlin, USDA/APHIS/WS; K. Lopez, USFWS Hart Mt. NAR; K. Neill, NV DOW; S. Olson, USFWS/DMBM; B. Patrick, Ca DFW; W. Price,; B. Raftovich, USFWS/DMBM; B. Reishus, OR DFW; W. Rhodes, USFWS/DMBM; O. Rocha, CA DFW; N. Saake, Nevada DOW (Retired); J. Sands, USFWS; J. Schultz, CA DFW; B. Sedinger; B. Shults, USFWS R7; T. Thornton, OR DFW; M. Weaver, CA DFW; E. Wehlands, WA DFW.

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July 2014

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