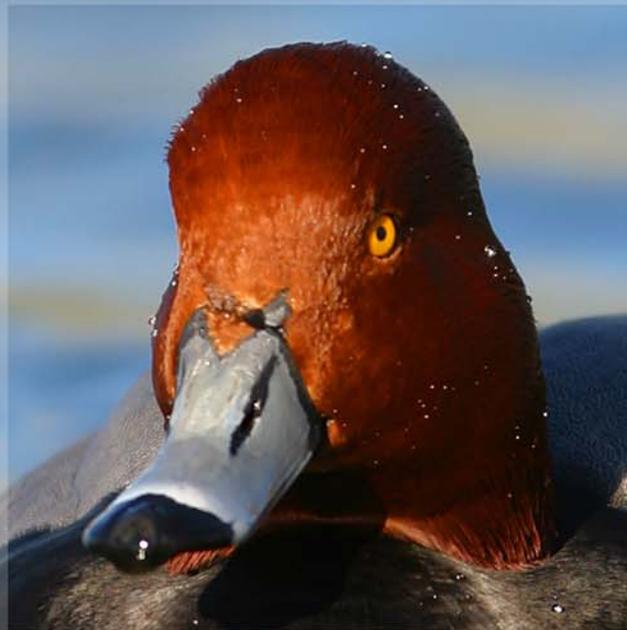




NATIONAL **Duck Hunter** SURVEY 2005

National Report



National Flyway Council
Wildlife Management Institute

National Duck Hunter Survey 2005 National Report

***National Flyway Council
and
Wildlife Management Institute***

February 3, 2006

Don Childress, Chair
National Flyway Council
P.O. Box 200701
Helena, MT 59601

Steve Williams, President
Wildlife Management Institute
1146 19th Street NW, Suite 700
Washington, DC 20036

www.ducksurvey.com

Foreward

Waterfowl hunters constitute a relatively small proportion of all hunters in the United States. Yet this group provides a large and positive energy to conservation initiatives. Hunting lore, conservation history, and contemporary financial contributions of waterfowl hunters loom large. Too, political influence wielded by waterfowl hunters to broaden public support for conservation is especially noteworthy (e.g., North American Wetlands Conservation Act; conservation provisions of the Farm Bill; broadened conservation funding in Arkansas, Missouri, Virginia and other states; individual contributions of businesses and philanthropists to wetland conservation). Above all, waterfowl hunters have, over time, proven their heart—that is, their best intentions—for advancing conservation and promoting the contribution of hunting to America’s quality of life. Waterfowl hunters, and their beliefs, are important.

The National Duck Hunter Survey 2005 reflects that importance. Although there have been numerous local, state and national level human dimensions inquiries, this survey is the first to ask a representative sample of duck hunters in every state their opinions on duck hunting and conservation. It was especially encouraging that more than 10,000 duck hunters returned their surveys, many with comments and some with notes of appreciation for the opportunity to participate in the study.

The “National Report” that follows includes hundreds of pages of analyses of responses to 32 questions from hunters in 49 states. However, these results, as interesting and insightful as they are, represent just the beginning. Now, begins the process of review and discussion among duck hunters, Flyway Councils, state fish and wildlife agencies, the U.S. Fish & Wildlife Service, conservation organizations, duck clubs, and the outdoor media about what the results mean and how they might be used to inform future decisions regarding waterfowl hunting and management.

Additional information on the National Duck Hunter Survey 2005 is available at www.ducksurvey.com. As further analyses are conducted they will be posted there, along with any corrections.

Special recognition is due the Councils and Technical Committees of the Pacific, Central, Mississippi, and Atlantic Flyways. This survey would not have been possible without their commitments of funds, expertise and energy.

Finally, members of the Strategy Team and the NFC Survey Committee (Appendix A) steered development and implementation of this survey under extremely tight deadlines. Waterfowl hunters and managers alike owe them a hearty thank you.



Don Childress
Chair, National Flyway Council
Administrator, Montana Department of
Fish, Wildlife and Parks



Steve Williams
President, Wildlife Management Institute

National Duck Hunter Survey 2005: Executive Summary

In Fall 2005, the National Flyway Council and the Wildlife Management Institute conducted a mail survey of duck hunters in 49 U.S. states. A random sample of 29,862 duck hunters was contacted using names drawn from the Harvest Information Program database. Of the 27,555 survey forms delivered, 10,887 were returned (40% response); 10,219 respondents were “active” duck hunters. Key findings revealed:

- Nearly three-quarters of respondents said duck hunting was one of their most important (58%), or most important (14%), recreational activities.
- Roughly one-third (29%) started hunting ducks before 1970, another third (36%) between 1970 and 1988, and the remaining third (35%) after 1988. Six percent of duck hunters now aged 45 to 64 indicated that they began duck hunting in the relatively recent past (1997-2004).
- Almost two-thirds (65%) spent over \$250 each year on duck hunting; and one-fifth (20%) spent over \$1,000 *each year*.
- Forty-three percent of duck hunters spent 10 days or less hunting ducks each year over the last 5 years; 30% spent 11 to 20 days; 17% spent 21 to 30 days; and 10% spent more than 30 days.
- A plurality (42%) of duck hunters said they were hunting the same number of days now compared to 5 years ago; 22% said they were hunting “more days,” and 31% said “fewer days.”
- Fifty-nine percent said that the duck season length (number of days in the season) in the state they hunted most over the last 5 years was “about right,” though another one-third (35%) said the season was “too short,” and 3%, “too long.”
- Almost three-quarters (72%) of duck hunters said that the total daily duck bag limit in the state they hunted most over the last 5 years was “about right.” Thirteen percent said it was “too low,” and 8%, “too high.”
- Duck hunters said that, over the last 5 years, the overall quality of duck hunting in the state they hunted most either had gotten “a little worse” (32%) or “much worse” (25%). Hunters in the Mississippi Flyway were especially prone to characterize a drop in overall quality of duck hunting, with hunters in the Lower Mississippi Flyway saying overall quality had gotten “a little worse” (31%) or “much worse” (51%).

- On average, duck hunters in the Atlantic Flyway said “interference from other hunters,” “ducks concentrating on fewer areas,” “hunting pressure,” “crowding at hunting areas,” and “ducks arriving after season close” had become “somewhat more” of a problem over the last 5 years. Pacific Flyway hunters also felt these were “somewhat more” of a problem, with the exception of “ducks concentrating on fewer areas,” which they characterized as “neither more nor less a problem.” To the problems identified by Atlantic Flyway hunters, Mississippi Flyway respondents added “shifting duck migration routes” as “somewhat more” of a problem. Central Flyway hunters said “ducks concentrating on fewer areas,” “hunting pressure,” “crowding at hunting areas,” and “ducks arriving after season close” were “somewhat more” of a problem over the last 5 years.
- Nationally, hunters indicated that duck hunting quality had become “somewhat worse” relative to “weather patterns for duck hunting,” “length of time ducks were staying in my area,” “number of places to hunt,” “overall duck numbers,” and “when ducks are arriving in my area.”
- A majority of hunters achieved the levels of duck harvest that they said equated with their views of satisfactory season harvest.
- Thirteen percent of duck hunters indicated that, for the most recent year they hunted ducks, they “always” used a motorized, spinning-wing decoy; 40% used a spinning-wing decoy “sometimes,” and 47%, “never.”
- A majority (53%) of duck hunters indicated that they think spinning-wing decoys “should be allowed,” 23% said “not allowed,” and 24% had no opinion.
- Duck hunters ascribed “high trust” to “avid/experienced duck hunters” to represent interests of duck hunters like them; among groups ascribed “medium trust” by duck hunters were “conservation groups like DU/Delta,” “waterfowl biologists,” “Flyway Councils,” and “wildlife agencies.” Groups ascribed “low trust” were “commercial/business interests,” “outdoor writers/tv personalities,” “legislators,” and the “general public.”
- Twenty percent of duck hunters said they “frequently” access the internet to look up duck hunting information; 49% access the internet “once in a while,” and 31%, “not at all.”

Table of Contents

Executive Summary 1
 Background and Objective 6
 Methods 6
 Results 12
 References 40
 Appendix A: Strategy Team and NFC Survey Committee Members 41
 Appendix B: National Duck Hunter Survey 2005 and Reminder Postcard 42
 Appendix C: USA, Flyway and Sub-Flyway Weight Tables 47
 Appendix D: Results of NDHS for USA 52
 Appendix E: Results of NDHS by Selected Classification/Background Variables: Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32 65
 Appendix F: Results of NDHS by Flyway 127
 Appendix G: Results of NDHS by Sub-Flyway 141
 Appendix H: Tables of Sampling Tolerance 159

List of Figures

FIGURE 1. Member states of Flyways and Sub-Flyways, National Duck Hunter Survey 2005 9

List of Tables

TABLE 1. USA—Response to National Duck Hunter Survey 2005. 10
 TABLE 2. Response to National Duck Hunter Survey 2005, by State. 11
 TABLE 3. USA—Q1: Waterfowl Pursuits of Duck Hunters (unweighted)..... 13
 TABLE 4. Sub-Flyway—Q1: Waterfowl pursuits of Duck Hunters Within Sub-Flyways. 13
 TABLE 5. Flyway—Q2: Importance of Duck Hunting as a Recreational Activity to National Duck Hunter Survey 2005 Respondents. 13
 TABLE 6. USA—Q2: Importance of Duck Hunting to NDHS Respondents, by Type (Postal/Web) and Wave (“W” 1 or 2) of Response..... 14
 TABLE 7. USA—Q2: Importance of Duck Hunting as a Recreational Activity to Male and Female Respondents (Q31). 14
 TABLE 8. Comparison of U.S. Population, Deer Hunters’, and Duck Hunters’ Age Distributions. 15
 TABLE 9. USA—Q3: When Duck Hunters Started Hunting Ducks, by Current Age (Q32). 15
 TABLE 10. USA—Q30: Amount Spent Annually on Duck Hunting, by Age (Q32)..... 15
 TABLE 11. Flyway—Q4: Usual Duck Harvest per Year Over the Last 5 Years..... 16
 TABLE 12. Flyway—Q5: Usual Days Hunted Ducks per Year Over the Last 5 Years..... 16
 TABLE 13. USA—Q4: Ducks Harvested and Days Duck Hunted (Q5), Usual per Year Over the Last 5 Years..... 16
 TABLE 14. Flyway—Q6: Respondent Participation in 2004-05 Duck Season. 17
 TABLE 15. Flyway—Q7: Number of Years in the Last 5 Years Respondents Hunted Ducks. 17
 TABLE 16. Sub-Flyway—Q8: Amount of Days per Season Hunting Now Compared to 5 Years Ago. 17

National Duck Hunter Survey 2005 – National Report

TABLE 17. USA—Q8: Ducks Usually Harvested in a Year (Last 5 Years) (Q4), by Days Spent Duck Hunting Now Versus 5 Years Ago..... 18

TABLE 18. USA—Q8: Days Spent Duck Hunting in a Season (Last 5 Years) by (Q5) Days Spent Duck Hunting Now Versus 5 Years Ago..... 18

TABLE 19. USA—Q8: Age of Respondent (Q32), by Days Spent Duck Hunting Now Versus 5 Years Ago. 19

TABLE 20. USA—Q10: Proportion of Respondents Who Hunted States Other Than Their Mailing Address State. 19

TABLE 21. Flyway—Q11: Satisfaction with total daily duck bag limit over the last 5 years in the state hunted most. 20

TABLE 22. Flyway—Q12: Satisfaction with duck season length over the last 5 years in the state hunted most..... 20

TABLE 23. USA—Q11: Satisfaction (total daily duck bag limit) by satisfaction (duck season length) over last 5 years in state hunted most (Q12)..... 21

TABLE 24. USA—Q12: Satisfaction (duck season length) by satisfaction (total daily duck bag limit) over the last 5 years in the state hunted most (Q11). 21

TABLE 25. Sub-Flyway—Q13: Changes to Overall Quality of Your Duck Hunting Over the Last 5 Years in State Hunted Most..... 22

TABLE 26. USA—Q14a-Q14i: “Thinking about changes in hunting quality over the last 5 years in the state where you hunted most, how much better or worse do you think the following have become?” 23

TABLE 27. USA—Q14a-Q14i: “Changes in Hunting Quality” (Ascending means ranked from lesser change (1) to greater change (9))..... 23

TABLE 28. Flyway—Q14a-Q14i: “Changes in Hunting Quality” (Ascending means ranked from lesser change (1) to greater change (9), and Word Anchors)..... 24

TABLE 29. USA—Q15a-15g: “Please indicate how much more or less of a problem the following have become over the last 5 years in the state where you hunted most.” 24

TABLE 30. Flyway—Q15a-15g: “Please indicate how much more or less of a problem the following have become over the last 5 years in the state where you hunted most” (Descending means ranked from lesser problem (1) to greater problem (7), and Word Anchors). 25

TABLE 31. USA—Q16a-Q16f: “For the most recent year you hunted in the state where you hunted most, how satisfied or dissatisfied were you with: 26

TABLE 32. USA—Q16a-Q16f: Comparison of satisfactions for “the most recent year you hunted in the state where you hunted most”...2004-05 (N~=9390) and 2003-04 (N~=775). 27

TABLE 33. USA—Q17: Harvest Necessary in a Day’s Hunt to Feel Satisfied with Harvest..... 28

TABLE 34. Flyway—Q17: Harvest Necessary in a Day’s Hunt to Feel Satisfied with Harvest..... 28

TABLE 35. USA—Q17: Minimum Satisfactory Daily Duck Harvest, by Satisfaction with Total Daily Duck Bag Limit Over the Last 5 Years (Q11)..... 29

TABLE 36. USA—Q18: Minimum Number of Ducks Needed to Harvest In a Season to Feel Satisfied with “Your” Harvest..... 29

TABLE 37. USA—Q18: Minimum Number of Ducks for a Satisfactory Season Harvest, by Usual Harvest per Year Over the Last 5 Years (Q4)..... 30

TABLE 38. USA—Q19a-19d: “How much do you support or oppose each of the following season options?” 31

TABLE 39. USA—Q20: “Which of the 4 options (a-d) listed in question 19 above [see Table 38] would you most prefer?” 31

National Duck Hunter Survey 2005 – National Report

TABLE 40. Flyway—Q20: “Which of the 4 options (a-d) listed in question 19 above [see Table 38] would you most prefer?”	32
TABLE 41. Sub-Flyway—Q20. “Which of the 4 options (a-d) listed in question 19 above [see Table 38] would you most prefer?”	32
TABLE 42. USA—Q21: “How small would the daily bag limit have to be before you would no longer hunt?”	33
TABLE 43. Flyway—Q22: “What do you think the daily bag limit for hen mallards should be?”	33
TABLE 44. Flyway—Q23: “Would you be willing to accept an overall smaller bag limit to have fewer species and sex bag limit restriction?”	33
TABLE 45. Flyway—Q24: “In the past, changes in season lengths were necessary to respond to changing duck populations. In the event of future changes, which would you prefer?”	34
TABLE 46. Flyway—Q25: “How does changing bag limits and season lengths from year to year affect your duck hunting satisfaction?”	34
TABLE 47. Sub-Flyway—Q26: “For the most recent year you hunted ducks, how often did you use a motorized spinning-wing decoy?”	35
TABLE 48. Sub-Flyway—Q27: “Which of the following best describes your viewpoint about motorized spinning-wing decoys?”	35
TABLE 49. USA—Q27: Opinion of Allowing (or Not) Spinning Wing Decoys, by Use of Spinning-Wing Decoy in Most Recent Year of Duck Hunting (Q26).	36
TABLE 50. USA—Q4: Usual Annual Duck Harvest (Last 5 Years), by Opinion of Allowing (or Not) Spinning-Wing Decoys (Q27).	36
TABLE 51. USA—Q4: Usual Annual Duck Harvest (Last 5 Years), by Frequency of Using Spinning Wing Decoys (Q26).	36
TABLE 52. USA—Q28a-Q28l: “How much trust do you put in each of the following to represent interests of duck hunters like you?.....	37
TABLE 53. USA—Q28a-28l: “How much trust do you put in each of the following to represent interests of duck hunters like you?”(Ascending means ranked from high trust (1) to low trust (12), and Word Anchors).	38
TABLE 54. USA—Q29: “Do you access the internet to look up duck hunting information?”	38
TABLE 55. USA—Q13: Observed Changes in Duck Hunting Quality Over Last 5 Years, by Use of Internet to Look Up Duck Hunting Information (Q29).	39
TABLE 56. USA—Q30: “About how much do you spend on duck hunting each year?”	39
TABLE 57. USA—Q31: “Please indicate your sex:”	39
TABLE 58. USA—Q32: “Please indicate your age:”	39

National Duck Hunter Survey 2005

Background and Objective

In April 2005, the National Flyway Council (NFC) and Wildlife Management Institute (WMI), in partnership with the U.S. Fish and Wildlife Service (Service), convened a Strategy Team (Appendix A). The Strategy Team's purpose was to implement the Communications Recommendation of the Adaptive Harvest Management Task Force Final Report (March 11, 2005).

The Strategy Team met on May 16, 2005, and proposed to initiate a sustained and systematic conversation with duck hunters. The group requested immediate action on a national survey of duck hunters, with findings available by February 1, 2006 to inform the 2006-2007 regulatory cycle. The objective of the survey was to provide clues and insights about duck hunters':

- Opinions of and satisfactions with recent seasons and bags;
- Perceptions of duck populations, possible influences on duck numbers, and duck management priorities;
- Preferences for selected regulatory options; and
- Past involvement and current interest in duck hunting, and hunter background.

The NFC and WMI conceived and funded the NDHS through the four flyway councils. The NFC hired D.J. Case & Associates, Inc. (DJ Case) to coordinate development, implementation and analysis of the survey. In addition, a committee comprised of Flyway technical representatives and human dimensions specialists was formed by the NFC. This NFC Survey Committee (Appendix A) met in Chicago, IL on June 27-28, 2005 to review an initial prospectus for the survey prepared by DJ Case. The committee rigorously evaluated the prospectus, offered improvements and refinements to the methodology and draft questionnaire, and developed a tight schedule calling for wide review of the questionnaire and methodology prior to July 13, 2005. Ultimately, over 60 pages of comments and recommendations were received from Flyway Councils and Flyway Technical Committees. Questionnaire revisions continued until August 16, 2005, when the questionnaire (Appendix B) was sent to the Assessment Resource Center (ARC) at the University of Missouri, the organization that printed, mailed, tracked, machine-scanned the questionnaires, and provided a dataset.

Methods

The NDHS sample frame was a subset of the 2004 Harvest Information Program (HIP) sample frame. Specifically, the NDHS sample frame was state-specific and consisted of legally-licensed, resident migratory bird hunters who stated that they harvested at least one duck during the 2003 season. Forty-eight of 49 states participating in the NDHS gave written permission for their HIP lists to be accessed for this survey; the 49th (New York) handled all facets of addressing and mailing the survey to their selected sample; completed New York questionnaires arrived at ARC for machine-scanning stripped of contact information. Hawaii does not have a duck hunting season.

Harvest Information Program Background

HIP requires each state to identify all potential migratory bird hunters in their state and ask them a series of “screening” questions about the species they hunted and their hunting success the previous year. The Service uses this prior year information as a predictor of current year hunting activity and success, and assigns each hunter to a success/activity stratum for each of nine species/species groups (ducks, sea ducks, geese, brant, doves, band-tailed pigeons, woodcock, coots and/or snipe, and rails and/or gallinules) based on his/her responses to the screening questions. Then the Service selects samples of migratory bird hunters from each stratum (i.e., stratified random samples) for the harvest surveys. For example, all HIP-certified hunters in each state are assigned to one of 3 duck strata, based on their answers to the question, “How many ducks did you shoot last year – none (stratum 1), 1-10 (stratum 2), or more than 10 (stratum 3)?” Those 3 strata are sampled for the HIP waterfowl harvest survey. Selected hunters are mailed a cover letter and a survey form in a daily hunting diary format, and their responses are used to estimate harvest and hunter activity for each species/species group in each state, flyway, and the entire U.S. The states forward the name and address and screening question information to the Service either weekly or twice a month, starting in August and continuing through the end of their migratory bird hunting seasons.

The states use a variety of methods for identifying and collecting the name, address, and stratification information for each migratory bird hunter. Telephone, internet-based, and point-of-sale (electronic) systems, as well as traditional paper permits, or some combination of these, are all common methods used to collect these data. Most states send this information to the Service in electronic format. However, CA, CT, and NM exclusively send paper permits, while AL, KY, PA, WV, and WY send both paper permits and data in electronic format. The Service uses an optical character recognition scanning system to record the stratification information contained on all paper permits, but the name and address information is only entered for hunters who are selected for HIP surveys. Thus, the Service HIP name and address data base includes all HIP-certified migratory bird hunters in States that provide electronic data, but only a fraction of the HIP-certified migratory bird hunters in States that provide paper permits/forms.

NDHS Sample Frame

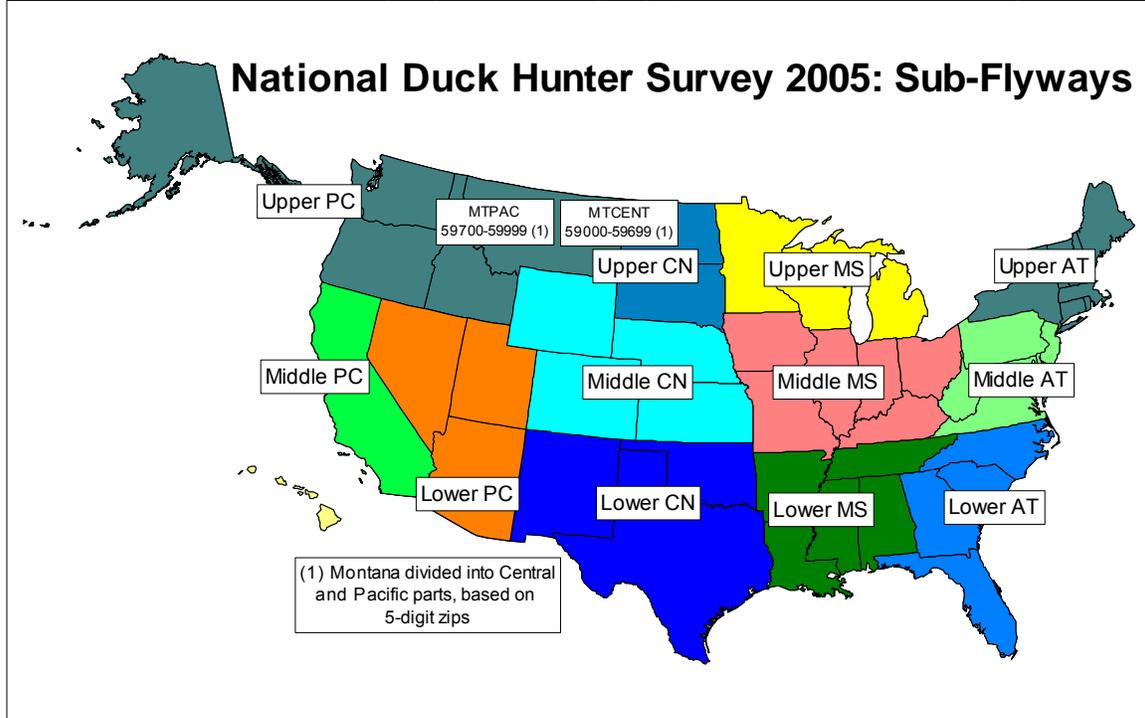
Hunter information provided by HIP enabled the identification of previously successful, *resident* duck hunters in each state, thereby establishing the NDHS sample frame. Because the HIP sample frame contains mostly people who do not hunt ducks, only people who answered “1-10” or “more than 10” to the question, “How many ducks did you shoot last year?” were included in the NDHS sample frame. Too, because *resident* duck hunters were sampled in each state, this eliminated hunters who *only* hunted ducks out of their state of residence. These delimitations excluded duck hunters who were unsuccessful or did not hunt ducks the previous year; yet it probably includes most duck hunters, especially the regular, annual participants. The practical advantage of this approach is that it avoided surveying people who do not hunt ducks. State-specific sample frames were limited to resident hunters to avoid “duplicate sampling” of people who hunt ducks in more than one state.

The NDHS sample frame included all or nearly all previously successful duck hunters from states that provided electronic HIP data. However, CA, CT, KY, NM, and PA provided the Service with hunter information on paper permits, and only those hunters randomly selected for one of the 4 HIP surveys had the name and address information edited and verified. As a result, the NDHS sample for those states was selected from a subset (hunters whose name and address data were previously edited and verified by the Service) of the legally licensed, successful, resident duck hunters with each state. WV and WY provided the Service with name and address data in both electronic and paper formats. In order to achieve the desired NDHS sample sizes for these states, the electronic database and the subset of hunters from the paper permits were combined and sampled. Most of the AL HIP sample frame was in electronic form, therefore the paper permit subset was excluded from the NDHS sample frame for AL.

NDHS Sample Selection

The Atlantic, Mississippi, and Central Flyways were partitioned into 3 strata: 1) Upper (northern states), 2) Middle (mid-latitude), and 3) Lower (southern states) (Figure 1). Initially, the Pacific Flyway opted not to stratify by Sub-Flyway, but later requested that its sample (originally drawn proportional to each state's contribution of hunters to the Flyway) be re-weighted to allow Sub-Flyway analyses at an upper, middle, and lower configuration. Power analyses revealed that a sample of 1,500 hunters per stratum, or 4,500 per flyway (assuming a 50% response rate) would be adequate to obtain a 95% confidence interval of $\sim\pm 4\%$ of the point estimates (Arkin and Colton 1963). The sample within each stratum was partitioned among the states proportionally based on the estimated number of active duck hunters in 2004 from the HIP waterfowl survey. Samples sizes were adjusted to obtain a minimum sample of 100 hunters from each state. Furthermore, 5 states opted to "over-sample" to allow for inferences to be made at the state level. Four of those states (IA, MD, WI, AR) sampled 1,300 hunters in their state, and 1 state (TN), sampled 1,000 (Appendix C). All states in the Central Flyway opted for over-sampling at 1,300 to collect baseline, state-level data for the Hunter's Choice regulatory alternative (Appendix C). Montana was divided into 2 parts for purposes of the study: a Central Flyway part with zip codes 59000 to 59699, and a Pacific Flyway part, with zip codes of 59700 to 59999. Simple random samples were selected for each state using PROC SURVEYSELECT with the selection method set to the predetermined sample size for each state (SAS® Institute, 1999).

FIGURE 1. Member states of Flyways and Sub-Flyways, National Duck Hunter Survey 2005.



Lower Atlantic (AF):	FL, GA, NC, SC
Middle Atlantic:	DE, MD, NJ, PA, VA, WV
Upper Atlantic:	CT, ME, MA, NH, NY, RI, VT
Lower Mississippi (MF):	AL, AR, LA, MS, TN
Middle Mississippi:	IL, IN, IA, KY, MO, OH
Upper Mississippi:	MI, MN, WI
Lower Central (CF):	NM, OK, TX
Middle Central:	CO, KS, NE, WY
Upper Central:	MT (zips 59000-59699), ND, SD
Lower Pacific (PF):	AZ, NV, UT
Middle Pacific:	CA
Upper Pacific:	AK, ID, MT (zips 59700-59999), OR, WA

Survey Response

A national response of 39.5% was achieved by December 10, 2005, the cut-off date to accept surveys (Table 1).

The survey consisted of two waves:

Wave 1: This first postal wave consisted of a questionnaire (Appendix B) sent by Standard Mail to each of the 29,862 in the original HIP sample for which valid addresses existed (postmarked, Columbia, MO, Sept. 16, 2005). Front-matter on page 1 of the 4-page machine-scannable (response-bubble) questionnaire briefly explained to the respondent the importance of the survey, and was signed by Chair of the NFC, Don Childress, with contact information. A *web option* encouraged the respondent to complete the survey on-line (internet) if more

convenient than responding by mail (www.ducksurvey.com); a First Class reminder postcard (Appendix B) was sent to each subject 3 days after the first postal wave; and

Wave 2: A second postal wave included a replacement questionnaire sent by First Class Mail to each of the non-respondents (postmarked, Columbia, MO, Nov. 4, 2005), again, with encouragement to respond using the internet if that was more convenient.

ARC opened each survey individually upon its return, examining the form to correct any data entry issues (mainly, ensuring response bubbles were completely filled-in by the respondent), and compiling written comments that respondents volunteered.

TABLE 1. USA—Response to National Duck Hunter Survey 2005.

		Frequency	Percent	Cumulative Percent
Valid	Not returned	16668	55.8	55.8
	Returned, Postal Wave1	8222	27.5	83.4
	Returned, Web W1	410	1.4	84.7
	Returned, Postal Wave2	2151	7.2	91.9
	Returned, Web W2	104	.3	92.3
	Refused, W2	3	.0	92.3
	Refused W1	11	.0	92.3
	Deceased	12	.0	92.4
	Undeliverable	2281	7.6	100.0
	Total	29862	100.0	

In summary, the final tally of returned, usable forms was 10,887, from the original sample of 27,555 prospective respondents that presumably received questionnaires (removing “undeliverable,” “deceased,” and “refused”)—or 40%.

Survey response varied substantially by state and region (Table 2). The U.S.’s southern states were battered by one of the most catastrophic fall storm seasons on record, perhaps accounting for some of the relatively low response from those southeastern states.

Five states responded in excess of 50% and 20 states at 45% or higher. A 50% overall response was hoped for and anticipated. Obvious implications of the 40% response observed are that:

1. A 3rd postal wave to non-respondents should be allowed for (and perhaps even a 4th wave) to achieve response in excess of 50% (if deemed especially desirable); and,
2. It may be too optimistic to expect hunter survey responses in excess of 50%, at least for studies at a national level. Interestingly, anecdotal accounts of response to other hunter surveys administered in individual states in the recent

National Duck Hunter Survey 2005 – National Report

past show comparable response rates in the 40-50 percent range (Ron Reitz, MO Dept. of Conservation, personal communication; Andy Raedeke, MO Dept. of Conservation, personal communication; Coren Jagnow, VA Dept. of Game and Inland Fisheries, personal communication).

TABLE 2. *Response to National Duck Hunter Survey 2005, by State.*

State	Response	State	Response
GA	.154	PA	.419
NC	.182	NM	.433
MS	.216	ND	.436
TN	.230	NH	.436
TX	.231	CO	.445
FL	.251	SD	.448
LA	.259	NE	.448
AL	.271	AK	.449
SC	.287	CA	.450
AR	.295	WI	.452
ME	.316	MI	.452
AZ	.340	VA	.453
WV	.340	UT	.457
DE	.341	WA	.460
MD	.354	CT	.466
OK	.357	RI	.479
MT	.376	NJ	.480
KY	.376	IA	.486
KS	.379	VT	.490
ID	.389	IL	.504
OR	.393	IN	.525
MO	.396	NV	.532
MN	.404	MA	.585
OH	.405	NY	.623
WY	.413	USA	.395

Results

Data Treatment

Data were carefully handled to assure anonymity of respondents throughout all stages of the study. Data security and quality control were preeminent concerns of ARC as it prepared the SPSS® dataset. Analytical counsel was provided by Drs. Jody Enck, Coren Jagnow, and Andy Raedeke. DJCase used SPSS® ver. 13.0 to analyze data and prepare tables.

Three sets of weights were applied to each respondent, depending on level of analysis: (1) weights for analyses at the “USA” level (USAwgt); (2) weights for analyses at the “Flyway” level (FLYwgt), and (3) weights for analyses at the “Sub-Flyway” level (SUBFlywgt) (Appendix C). The weights adjusted the *actual* number of respondents in each state to represent the *proportionality* of estimated number of active duck hunters in 2004 by Sub-Flyway, Flyway, and USA. Unless indicated otherwise (i.e., “unweighted”), all tabular data are appropriately weighted.

Detailed tabulations are presented in Appendices D-G for (1) the USA organized by order of question, and by selected classification/background variables, then (2) by order of question for 4 Flyways, and then (3) by order of question for 12 Sub-Flyways. Tables of error tolerances for individual percentages are in Appendix H. See the questionnaire (Appendix B) for exact question wording.

Generally, percentages that follow are rounded to the nearest whole number, occasionally resulting in slight variations (1%) in reported percent totals (i.e., percent totals equally 99% or 101%). Missing data are excluded from tabulations in the following narrative. Missing data are tallied in Appendix D. USA percentages are provided in Flyway and Sub-Flyway tables for comparative purposes; however, actual *counts* of respondents at the USA level should be drawn from USA tables in the narrative and Appendices.

Findings

As a reminder, human dimensions in conservation issues are best used to reveal clues—*not* “answers” or “votes” or “dictates”—but *clues* to better informed fish and wildlife management (Witter and Jahn, 1998)

Respondents were first screened to determine if, in fact, they still considered themselves to be duck hunters (Table 3). As might be expected, some respondents removed themselves from the survey (668, 7%) because they indicated that they now hunted “only geese,” or “neither ducks nor geese.”

A small group of hunters neglected to answer Q1 at the bottom of questionnaire page 1, but they proceeded to answer duck hunting questions beginning on page 2. These respondents were assigned to a category, “Hunt ducks, perhaps geese,” and kept in the study (Table 3). The initial Q1 screening reduced the response group from 10,887 to 10,219.

TABLE 3. USA—Q1: Waterfowl Pursuits of Duck Hunters (unweighted).

Q1: Which of the following statements best describes your pursuits in waterfowl hunting?					
Ducks, perhaps geese	Only ducks	Ducks and geese	Only geese	Neither ducks nor geese	Total
1%	9%	84%	3%	4%	10887

Regional differences among the Flyways were immediately obvious in waterfowl interests expressed by respondents in Q1, with hunters in the Lower Flyways (except Pacific) more likely to hunt “Only ducks” (Table 4).

TABLE 4. Sub-Flyway—Q1: Waterfowl pursuits of Duck Hunters Within Sub-Flyways.

		Q1: Which of the following statements best describes your pursuits in waterfowl hunting?			
		Ducks, perhaps geese	Only ducks	Ducks and geese	Total
Sub-Flyway	Lower AT	0%	41%	59%	229
	Middle AT	2%	4%	94%	814
	Upper AT	1%	9%	90%	731
	Lower MS	1%	40%	59%	650
	Middle MS	1%	7%	92%	1072
	Upper MS	1%	7%	92%	863
	Lower CN	0%	26%	74%	838
	Middle CN	1%	5%	94%	1872
	Upper CN	1%	2%	97%	1410
	Lower PC	0%	7%	92%	282
	Middle PC	2%	10%	88%	670
	Upper PC	1%	10%	88%	788

Duck hunting was vital to respondents, with almost 75% describing the pursuit as “one of my most important recreational activities” or “my most important recreational activity” (Table 5).

TABLE 5. Flyway—Q2: Importance of Duck Hunting as a Recreational Activity to National Duck Hunter Survey 2005 Respondents.

		Q2: How important is duck hunting to you?					Total
		Most important	One of my most important	No more important	Less important	One of my least important	
Flyway	Atlantic	13%	62%	21%	4%	1%	1762
	Mississippi	15%	59%	20%	5%	1%	2560
	Central	10%	53%	29%	6%	1%	4090
	Pacific	14%	59%	21%	5%	1%	1716
	USA	14%	58%	22%	5%	1%	10128

The number of respondents (528) who chose to complete the survey at the web address was relatively small (5%) (Table 6).

TABLE 6. USA—Q2: Importance of Duck Hunting to NDHS Respondents, by Type (Postal/Web) and Wave (“W” 1 or 2) of Response.

		Q2: How important is duck hunting to you?					Total
		Most important	One of my most important	No more important	Less important	One of my least important	
Responses	Returned, postal W1	14%	59%	21%	5%	1%	7708
	Returned, web W1	20%	60%	17%	2%	0%	414
	Returned, postal W2	13%	54%	26%	7%	1%	1984
	Returned, web W2	11%	63%	20%	3%	4%	114

A detailed, item-by-item comparison of postal versus web respondents (and further differentiated by Wave 1 versus Wave 2; and perhaps weighted versus unweighted data) would be a worthy methodological inquiry, and would undoubtedly reveal some differences in response profiles. Indeed, prior work has revealed some important and notable characteristics of tech-savvy hunters who use the internet (Miller, 2003). However, present data do not support fears of introducing *gross*, systematic bias by encouraging survey response by web. Moreover, most to the point—and remembering that this survey (as with many contemporary hunter surveys) experienced over a 50% *non-response*—energy at controlling error should most certainly be directed at encouraging respondents *to answer*—in any way—rather than fearing potential bias associated with new media that might actually increase the number of respondents.

Most respondents were male (99%), confirming low female participation found in a previous national survey of duck hunters (Ringelman, 1997), and offering sharp contrast to the approximate 9% of deer hunters who are women (Leonard, 2004). But though involvement in duck hunting by women is small, female participants, like men, are very committed to duck hunting (Table 7), evidenced by their willingness to characterize duck hunting as “one of my most important” recreational activities.

TABLE 7. USA—Q2: Importance of Duck Hunting as a Recreational Activity to Male and Female Respondents (Q31).

		Q2: How important is duck hunting to you?					Total
		Most important	One of my most important	No more important	Less important	One of my least important	
q31: Please indicate your sex:	Male	14%	58%	22%	5%	1%	9841
	Female	3%	69%	22%	4%	2%	145
	Total	14%	58%	22%	5%	1%	9986

Compared to the U.S. age distribution, duck hunters' ages tended to be slightly under-representative of ages 24 and younger, over-representative of ages 45 to 64, and under-representative of those 65 and older (Table 8). Compared to deer hunters, duck hunters tended to be over-represented in the 45 to 64 age group. As a group, duck hunters tend to be older than deer hunters.

TABLE 8. Comparison of U.S. Population, Deer Hunters', and Duck Hunters' Age Distributions.

Age	U.S. Population ^a	Deer Hunters ^a	Duck Hunters ^b
<25	15	15	12
25-44	37	45	41
45-64	31	33	40
65+	17	7	7

^aData from Leonard, 2004; ^bNational Duck Hunter Survey 2005, National Flyway Council

Perhaps most interesting about ages at which hunters started hunting ducks is that 6% of hunters now aged 45 to 64 indicated that they began hunting in the relatively recent past (1997-2004) (Table 9). Current efforts to retain and recruit hunters tend to focus on women, youth, the physically-challenged, and minorities—all very appropriate initiatives. These data are a reminder that current hunters should not be overlooked as candidates for hunting activities in which they do not currently participate; that is, there's opportunity to draw new, active, and perhaps inactive hunters into activities like duck hunting.

TABLE 9. USA—Q3: When Duck Hunters Started Hunting Ducks, by Current Age (Q32).

		Q3: When did you start hunting ducks?					Total
		Before 1970	1970 to 1979	1980 to 1988	1989 to 1996	1997 to 2004	
Q32: Please indicate your age:	24 or under	0%	0%	4%	29%	67%	1225
	25-44	2%	23%	30%	24%	21%	4129
	45-64	54%	27%	8%	6%	6%	4043
	65 or over	92%	4%	2%	1%	1%	689
	Total	29%	20%	16%	16%	19%	10086

Financial commitment by duck hunters to their avocation is formidable (Table 10). Nearly one-fifth of duck hunters of all age groups (except those 24 or under) reported spending over \$1,000 each year on duck hunting.

TABLE 10. USA—Q30: Amount Spent Annually on Duck Hunting, by Age (Q32).

		Q30: About how much do you spend on duck hunting each year?				Total
		\$250 or less	\$251-\$1000	\$1001-\$5000	Over \$5000	
Q32: Please indicate your age:	24 or under	48%	42%	9%	1%	1219
	25-44	32%	47%	19%	2%	4126
	45-64	33%	44%	19%	3%	4026
	65 or over	37%	44%	14%	4%	688
	Total	35%	45%	17%	3%	10058

The NDHS questionnaire most often asked hunters to frame or “average” their satisfactions and experiences “over the last 5 years.” Question 4 was the first such “averaging” question respondents encountered. Nationally, 37% of duck hunters said they harvested 10 or less ducks per year.

TABLE 11. Flyway—Q4: Usual Duck Harvest per Year Over the Last 5 Years.

		Q4: Over the last five years, about how many ducks did you usually harvest in a year?					Total
		5 or less	6 to 10	11 to 20	21 to 50	>50	
Flyway	Atlantic	20%	27%	27%	19%	7%	1764
	Mississippi	16%	22%	27%	25%	11%	2578
	Central	14%	20%	30%	27%	9%	4089
	Pacific	9%	18%	25%	30%	19%	1724
	USA	15%	22%	27%	25%	11%	10155

A companion question to Q4 inquired about the usual annual effort the respondent committed to duck hunting over the last 5 years (Table 12).

TABLE 12. Flyway—Q5: Usual Days Hunted Ducks per Year Over the Last 5 Years.

		Q5: Over the last five years, about how many days did you usually hunt ducks in a year?					Total
		5 or less	6 to 10	11 to 20	21 to 30	>30	
Flyway	Atlantic	18%	30%	30%	14%	8%	1766
	Mississippi	14%	25%	31%	18%	11%	2575
	Central	20%	31%	27%	14%	8%	4105
	Pacific	14%	25%	28%	17%	16%	1730
	USA	16%	27%	30%	16%	11%	10175

Comparing usual annual harvest to usual annual days hunting ducks revealed the predictable relationship that, the more days of hunting ducks, the greater number of ducks bagged (Table 13).

TABLE 13. USA—Q4: Ducks Harvested and Days Duck Hunted (Q5), Usual per Year Over the Last 5 Years.

		Q4: Over the last five years, about how many ducks did you usually harvest in a year?					Total
		5 or less	6 to 10	11 to 20	21 to 50	>50	
Q5: Over the last five years, about how many days did you usually hunt ducks in a year?	5 or less	54%	35%	10%	1%	0%	1617
	6 to 10	16%	38%	37%	8%	1%	2752
	11 to 20	6%	15%	37%	36%	6%	3010
	21 to 30	2%	7%	21%	51%	19%	1674
	More than 30	1%	4%	10%	31%	54%	1090
	Total	15%	22%	27%	25%	11%	10143

Respondents were asked if they hunted ducks during the 2004-2005 season (Table 14), and how many of the last 5 years they hunted ducks (Table 15).

National Duck Hunter Survey 2005 – National Report

TABLE 14. Flyway—Q6: Respondent Participation in 2004-05 Duck Season.

		Q6: Did you hunt ducks during the 2004-2005 season?		
		Yes	No	Total
Flyway	Atlantic	93%	7%	1762
	Mississippi	93%	7%	2574
	Central	90%	10%	4101
	Pacific	94%	6%	1729
	USA	92%	8%	10165

TABLE 15. Flyway—Q7: Number of Years in the Last 5 Years Respondents Hunted Ducks.

		Q7: How many of the last 5 years have you hunted ducks?						Total
		0 years	1 year	2 years	3 years	4 years	5 years	
Flyway	Atlantic	0%	1%	3%	9%	11%	76%	1766
	Mississippi	0%	1%	3%	8%	10%	79%	2575
	Central	1%	1%	4%	11%	13%	71%	4099
	Pacific	0%	1%	4%	9%	10%	77%	1733
	USA	0%	1%	3%	9%	11%	76%	10173

Large majorities of hunters in all Flyways hunted at least 4 of the last 5 years, and about three-quarters indicated that they hunted all 5 years.

Hunters were asked how many days per season they were duck hunting now compared to 5 years ago (Table 16). Nationally, 64% of duck hunters are hunting the “same number” or “more days” than they did 5 years ago.

TABLE 16. Sub-Flyway—Q8: Amount of Days per Season Hunting Now Compared to 5 Years Ago.

		Q8: How many days per season are you duck hunting now compared to 5 years ago?					Total
		Same number	More days	Fewer days	Wasn't hunting 5 yrs ago		
Sub-Flyway	Lower AT	40%	25%	29%	6%	227	
	Middle AT	41%	28%	25%	5%	812	
	Upper AT	45%	23%	26%	6%	730	
	Lower MS	39%	17%	39%	4%	646	
	Middle MS	45%	24%	27%	5%	1067	
	Upper MS	44%	18%	32%	6%	861	
	Lower CN	35%	24%	35%	6%	838	
	Middle CN	41%	25%	28%	5%	1863	
	Upper CN	46%	20%	29%	6%	1402	
	Lower PC	45%	21%	30%	4%	282	
	Middle PC	45%	28%	24%	4%	666	
	Upper PC	41%	23%	29%	6%	784	
	USA	42%	22%	31%	5%	10178	

The percentages of hunters hunting “fewer days” now than 5 years ago ranged from a high of 39% in the Lower Mississippi Flyway to 24% in the Middle Pacific.

Analyses compared ducks usually harvested per year and relative amount of time spent duck hunting now versus 5 years ago (Table 17); usual days spent duck hunting per season and time spent duck hunting now versus 5 years ago (Table 18); and age and time spent duck hunting now versus 5 years ago (Table 19).

TABLE 17. USA—Q8: Ducks Usually Harvested in a Year (Last 5 Years) (Q4), by Days Spent Duck Hunting Now Versus 5 Years Ago.

		Q8: How many days per season are you duck hunting now compared to 5 years ago?				
		Same number	More days	Fewer days	Wasn't hunting 5 yrs ago	Total
Q4: Over the last five years, about how many ducks did you usually harvest in a year?	5 or less	40%	16%	32%	12%	1538
	6 to 10	40%	18%	35%	7%	2209
	11 to 20	39%	24%	33%	4%	2748
	21 to 50	45%	24%	29%	2%	2532
	>50	51%	27%	20%	1%	1115
	Total	42%	22%	31%	5%	10143

TABLE 18. USA—Q8: Days Spent Duck Hunting in a Season (Last 5 Years) by (Q5) Days Spent Duck Hunting Now Versus 5 Years Ago.

		Q8: How many days per season are you duck hunting now compared to 5 years ago?				
		Same number	More days	Fewer days	Wasn't hunting 5 yrs ago	Total
Q5: Over the last five years, about how many days did you usually hunt ducks in a year?	5 or less	40%	11%	40%	9%	1614
	6 to 10	38%	20%	36%	6%	2754
	11 to 20	42%	24%	30%	4%	3012
	21 to 30	44%	27%	26%	3%	1674
	More than 30	51%	30%	17%	3%	1097
	Total	42%	22%	31%	5%	10150

TABLE 19. USA—Q8: Age of Respondent (Q32), by Days Spent Duck Hunting Now Versus 5 Years Ago.

		Q8: How many days per season are you duck hunting now compared to 5 years ago?				
		Same number	More days	Fewer days	Wasn't hunting 5 yrs ago	Total
Q32: Please indicate your age:	24 or under	29%	38%	16%	17%	1219
	25-44	40%	22%	32%	5%	4133
	45-64	47%	18%	33%	2%	4038
	65 or over	50%	12%	37%	1%	689
	Total	42%	22%	31%	5%	10079

A probing examination of variables, using 3- or n-way cross tabulations might identify factors explaining fewer days afield on the part of some duck hunters, but is beyond the scope of this report. Obviously, diminished involvement might be, in part, attributable to variables as obvious as falling harvest success or age. Whatever the case, Table 17 provides provocative insight to the idea that diminishing participation might not be attributable to the simplistic, “not finding any ducks”; note that 20% of the sub-group of hunters harvesting “more than 50 ducks” on an annual basis indicated they’re going afield fewer days today than 5 years ago.

Questions 9 and 10 were used to determine if the respondent’s mailing address was the state in which the respondent hunted most over the last 5 years (Table 20).

TABLE 20. USA—Q10: Proportion of Respondents Who Hunted States Other Than Their Mailing Address State.

Q10: Is this state the same as indicated on your current mailing address?		
Yes	No	Total
95%	5%	10115

In the approximate 450 cases where respondents indicated that, over the last 5 years, they hunted most in a state different than their mailing state—and if they identified that different state in Question 9—they were assigned to that state for purposes of analysis, and weighted accordingly. However, in some cases, respondents neglected to provide the name of the state, in which case they were assigned their mailing state for purposes of analysis. Or, in the event the respondent skipped questions 9 and 10—this question sequence was somewhat visually daunting (“form fear,” perhaps)—they also were assigned their mailing state for purposes of analysis.

This reassignment of hunters showed little consequence in altering results, overall. However, noteworthy are states that lost or gained 1 percentage point in their proportions of the total U.S. sample: gaining 1 percentage point in hunters were Missouri, Montana, Minnesota, North Dakota, and Wisconsin; losing 1 percentage point were Oklahoma, South Carolina, and Tennessee. No state lost or gained more than 1 percentage point in the total U.S. sample

In all surveys—all good surveys—there are benchmark questions that tend to cut to the heart of the study’s objective. Questions 11 (Table 21) and 12 (Table 22) were 2 such benchmark questions in this survey and represent perhaps the most fruitful dependent variables for subsequent exploration.

About 72% of duck hunters characterized the total daily duck bag limit over the last 5 years in the states they hunted most as “about right” (Table 21). Those saying the bag was “too low” ranged from a high in the Atlantic of 18% to a low in the Pacific of 10%; and those saying the bag was “too high” ranged from a high in the Mississippi of 11% to a low in the Central of 4%.

TABLE 21. Flyway—Q11: Satisfaction with total daily duck bag limit over the last 5 years in the state hunted most.

		Q11: Which one statement best describes how you feel about the total daily duck bag limit over the last 5 years in the state where you hunted most?				
		Too low	About right	Too high	No opinion	Total
Flyway	Atlantic	18%	69%	5%	8%	1729
	Missi'ippi	12%	71%	11%	6%	2531
	Central	14%	75%	4%	7%	4042
	Pacific	10%	77%	7%	6%	1700
	USA	13%	72%	8%	7%	10002

TABLE 22. Flyway—Q12: Satisfaction with duck season length over the last 5 years in the state hunted most.

		Q12: Which one statement best describes how you feel about the duck season length (number of days in the season) over the last 5 years in the state where you hunted most?				
		Too short	About right	Too long	No opinion	Total
Flyway	Atlantic	46%	50%	1%	3%	1744
	Missi'ippi	34%	57%	5%	4%	2550
	Central	34%	61%	1%	4%	4080
	Pacific	23%	70%	3%	4%	1716
	USA	34%	59%	3%	4%	10091

Though hunters’ satisfaction with season length was not the ringing endorsement they gave for bag limit, still, majorities within each Flyway indicated that season length was “about right.” However, in the Atlantic, about as many respondents called the season “too short” (46%) as “about right” (50%). Few respondents characterized the season as “too long,” with the highest proportion (5%) feeling that way in the Mississippi Flyway.

Questions 11 and 12 are insightful variables when crosstabulated with each other (Tables 23 and 24), both crosstabs showing different facets of opinion of daily bag and season length.

TABLE 23. USA—Q11: Satisfaction (total daily duck bag limit) by satisfaction (duck season length) over last 5 years in state hunted most (Q12).

		Q12: Which one statement best describes how you feel about the duck season length (number of days in the season) over the last 5 years in the state where you hunted most?				
		Too short	About right	Too long	No opinion	Total
Q11: Which one statement best describes how you feel about the total daily duck bag limit over the last 5 years in the state where you hunted most?	Too low	62%	36%	0%	2%	1328
	About right	32%	64%	2%	2%	7213
	Too high	15%	62%	21%	2%	800
	No opinion	30%	35%	3%	33%	637
	Total	34%	59%	3%	4%	9978

TABLE 24. USA—Q12: Satisfaction (duck season length) by satisfaction (total daily duck bag limit) over the last 5 years in the state hunted most (Q11).

		Q11: Which one statement best describes how you feel about the total daily duck bag limit over the last 5 years in the state where you hunted most?				
		Too low	About right	Too high	No opinion	Total
Q12: Which one statement best describes how you feel about the duck season length (number of days in the season) over the last 5 years in the state where you hunted most?	Too short	24%	67%	3%	6%	3442
	About right	8%	80%	9%	4%	5848
	Too long	2%	39%	54%	5%	320
	No opinion	5%	34%	4%	57%	368
	Total	13%	72%	8%	7%	9978

A perhaps telling relationship emerges in Table 23 for hunters who characterize the daily bag as “too high.” About as many of them call the season length “too short” (15%) as “too long” (21%), suggesting that, even though they feel the bag is too high, it’s difficult to entertain shortening the season to compensate.

Generally, however, Table 24 suggests that, if hunters think the season is “too short,” they’re more inclined to feel the bag is “too low” (24%). The relatively small group that feels the season is “too long” thinks the bag is “too high” (54%)

Another effective and insightful “right-to-the-heart-of-the-matter” question is Q13 (Table 25). Immediately obvious are those Sub-Flyways with larger proportions characterizing duck hunting quality as “gotten much worse”—these include (and in fact, feature the 3 highest percentages for “gotten much worse”)—the Upper (33%), Middle (21%), and in particular, Lower Mississippi (51%) Sub-Flyways. In contrast is the Upper Central Sub-Flyway, with 20 percent characterizing hunting as “gotten a little better” and 10%, “gotten much better.”

National Duck Hunter Survey 2005 – National Report

TABLE 25. Sub-Flyway—Q13: Changes to Overall Quality of Your Duck Hunting Over the Last 5 Years in State Hunted Most.

		Q13: What changes have you observed in the overall quality of your duck hunting over the last 5 years in the state where you hunted most?						Total
		Gotten much better	Gotten a little better	Stayed about same	Gotten a little worse	Gotten much worse	No opinion	
Sub-Flyway	Lower AT	5%	14%	28%	35%	14%	4%	226
	Middle AT	3%	18%	35%	31%	10%	2%	797
	Upper AT	6%	17%	39%	26%	10%	2%	721
	Lower MS	1%	4%	12%	31%	51%	1%	646
	Middle MS	3%	11%	29%	34%	21%	2%	1046
	Upper MS	2%	8%	22%	33%	33%	3%	854
	Lower CN	4%	14%	25%	35%	18%	4%	833
	Middle CN	4%	16%	33%	32%	12%	3%	1852
	Upper CN	10%	20%	38%	23%	6%	3%	1380
	Lower PC	3%	18%	35%	31%	11%	2%	280
	Middle PC	4%	14%	30%	33%	16%	2%	660
	Upper PC	3%	10%	32%	34%	16%	4%	772
	USA	3%	11%	26%	32%	25%	3%	10066

Question 14 featured a series of nine factors that may have helped account for changes (better/worse) in duck hunting quality (Table 26). Data reduction must proceed cautiously, but one immediate method to summarize the foregoing data is to calculate and rank mean scores for each of Q14a through Q14i, using scores 1 to 5, with 1= “Much better” and 5= “Much worse” (and eliminating “Don’t know” for purposes of this analysis) (Table 27).

Based on central tendency, duck hunters characterized 5 items as “Somewhat Worse”—these were, “when ducks are arriving in my area,” “overall duck numbers,” “the number of places to hunt,” “the length of time ducks are staying in my area,” and “weather patterns for duck hunting.” Four factors were characterized as “Neither Better Nor Worse.” These were “timing of duck seasons,” “amount of time I have to hunt ducks,” “duck habitat where I hunt,” and “ease of understanding regulations.”

National Duck Hunter Survey 2005 – National Report

TABLE 26. USA—Q14a-Q14i: “Thinking about changes in hunting quality over the last 5 years in the state where you hunted most, how much better or worse do you think the following have become?”

	Much better	Somewhat better	Neither better/worse	Somewhat worse	Much worse	Don't know	Total
Q14a: Duck habitat where I hunt?	5%	18%	43%	23%	9%	2%	10026
Q14b: When ducks arrive in area?	1%	7%	34%	34%	21%	3%	9954
Q14c: Length/time ducks stay in area?	1%	7%	39%	32%	17%	4%	9952
Q14d: Timing of duck seasons?	1%	9%	52%	22%	12%	3%	9929
Q14e: Overall duck numbers?	2%	15%	24%	32%	25%	2%	9946
Q14f: Ease of understanding regs?	4%	14%	63%	12%	6%	2%	9942
Q14g: Number of places to hunt?	2%	9%	36%	31%	20%	2%	9956
Q14h: Time I have to hunt ducks?	4%	14%	47%	24%	9%	1%	9982
Q14i: Weather patterns for duck hunting?	0%	5%	45%	30%	16%	4%	10033

TABLE 27. USA—Q14a-Q14i: “Changes in Hunting Quality” (Ascending means ranked from lesser change (1) to greater change (9)).

	N	Rank (Mean) & Word Anchor	Std. Deviation
Q14f: Ease of understanding regs?	9782	1 (3.03) Neither Better/Worse	.814
Q14a: Duck habitat where I hunt?	9852	2 (3.14) Neither Better/Worse	.991
Q14h: Time I have to hunt ducks?	9881	3 (3.20) Neither Better/Worse	.941
Q14d: Timing of duck seasons?	9643	4 (3.35) Neither Better/Worse	.871
Q14i: Weather patterns for duck hunting?	9612	5 (3.59) Somewhat Worse	.833
Q14c: Length/time ducks stay in area?	9583	6 (3.60) Somewhat Worse	.902
Q14g: Number of places to hunt?	9771	6 (3.60) Somewhat Worse	.969
Q14e: Overall duck numbers?	9730	8 (3.65) Somewhat Worse	1.088
Q14b: When ducks arrive in area?	9661	9 (3.68) Somewhat Worse	.928

Across the Flyways, there were apparent differences in what was perceived to be better or worse (Table 28). The factor that worsened most over the last 5 years in the Atlantic and Pacific Flyways was “number of places to hunt.” In the Mississippi Flyway, it

National Duck Hunter Survey 2005 – National Report

was “overall duck numbers.” In the Central, the issue that had worsened most was “weather patterns for duck hunting.”

TABLE 28. Flyway—Q14a-Q14i: “Changes in Hunting Quality” (Ascending means ranked from lesser change (1) to greater change (9), and Word Anchors).

	Atlantic Rank (Mean)	Mississippi Rank (Mean)	Central Rank (Mean)	Pacific Rank (Mean)
Q14f: Ease of understanding regs?	1 (3.03) Neither Better/Worse	1 (2.99) Neither Better/Worse	2 (3.04) Neither Better/Worse	4 (3.15) Neither Better/Worse
Q14a: Duck habitat where I hunt?	2 (3.16) Neither Better/Worse	3 (3.22) Neither Better/Worse	1 (3.02) Neither Better/Worse	1 (3.04) Neither Better/Worse
Q14h: Time I have to hunt ducks?	3 (3.21) Neither Better/Worse	2 (3.18) Neither Better/Worse	5 (3.29) Neither Better/Worse	2 (3.12) Neither Better/Worse
Q14d: Timing of duck seasons?	4 (3.24) Neither Better/Worse	4 (3.49) Neither Better/Worse	4 (3.27) Neither Better/Worse	3 (3.13) Neither Better/Worse
Q14c: Length/time ducks stay in area?	5 (3.30) Neither Better/Worse	7 (3.84) Somewhat Worse	6 (3.44) Neither Better/Worse	5 (3.37) Neither Better/Worse
Q14i: Weather patterns for duck hunting?	7 (3.34) Neither Better/Worse	6 (3.72) Somewhat Worse	9 (3.54) Somewhat Worse	8 (3.46) Neither Better/Worse
Q14e: Overall duck numbers?	6 (3.39) Neither Better/Worse	9 (3.96) Somewhat Worse	3 (3.26) Neither Better/Worse	6 (3.40) Neither Better/Worse
Q14b: When ducks arrive in area?	8 (3.43) Neither Better/Worse	8 (3.92) Somewhat Worse	7 (3.46) Neither Better/Worse	7 (3.45) Neither Better/Worse
Q14g: Number of places to hunt?	9 (3.68) Somewhat Worse	5 (3.59) Somewhat Worse	8 (3.53) Somewhat Worse	9 (3.64) Somewhat Worse

Each respondent was asked how much more or less of a problem 7 factors had become over the last 5 years in the state hunted most (Table 29).

TABLE 29. USA—Q15a-15g: “Please indicate how much more or less of a problem the following have become over the last 5 years in the state where you hunted most.”

	Much more	Somewhat more	Neither more or less	Somewhat less	Much less	Don't know	Total
Q15a: Crowding at hunting areas?	20%	38%	32%	4%	1%	4%	10129
Q15b: Hunting pressure?	18%	41%	31%	6%	1%	3%	10109
Q15c: Ducks unable to find rest areas?	7%	20%	53%	8%	5%	7%	10016
Q15d: Shifting duck migration routes?	17%	27%	38%	5%	2%	12%	9989
Q15e: Interference from other hunters?	13%	33%	46%	4%	1%	3%	10001
Q15f: Ducks arriving after season close?	24%	32%	34%	3%	2%	6%	10049
Q15g: Ducks concentrating on fewer areas?	14%	35%	39%	3%	1%	7%	10089

Re-examining these data by calculating and ranking means (eliminating the “don’t know” category) revealed that, at a national level, respondents evaluated 6 issues as “somewhat more” of a problem (from lesser to greater problem): “interference from other hunters,” “shifting duck migration routes,” ducks concentrating on fewer areas,” “hunting pressure,” “crowding at hunting areas,” and “ducks arriving after the season is closed,” with slight variations in problems among Flyways (Table 30).

TABLE 30. Flyway—Q15a-15g: “Please indicate how much more or less of a problem the following have become over the last 5 years in the state where you hunted most” (Descending means ranked from lesser problem (1) to greater problem (7), and Word Anchors).

	Atlantic Rank (Mean)	Mississippi Rank (Mean)	Central Rank (Mean)	Pacific Rank (Mean)
Q15c: Ducks unable to find rest areas	1 (2.73) Neither More/Less	1 (2.81) Neither More/Less	1 (2.81) Neither More/Less	1 (2.96) Neither More/Less
Q15d: Shifting duck migration routes?	2 (2.67) Neither More/Less	6 (2.18) Somewhat More	2 (2.59) Neither More/Less	2 (2.62) Neither More/Less
Q15e: Interference from other hunters?	3 (2.49) Somewhat More	2 (2.46) Somewhat More	3 (2.51) Neither More/Less	5 (2.42) Somewhat More
Q15g: Ducks concentrating on fewer areas?	4 (2.45) Somewhat More	3 (2.27) Somewhat More	4 (2.47) Somewhat More	3 (2.51) Neither More/Less
Q15b: Hunting pressure?	5 (2.33) Somewhat More	4 (2.25) Somewhat More	5 (2.39) Somewhat More	6 (2.27) Somewhat More
Q15a: Crowding at hunting areas?	6 (2.30) Somewhat More	5 (2.21) Somewhat More	6 (2.37) Somewhat More	7 (2.17) Somewhat More
Q15f: Ducks arriving after season close?	7 (2.23) Somewhat More	7 (2.09) Somewhat More	7 (2.36) Somewhat More	4 (2.44) Somewhat More

Only one item in the survey (Q16a-Q16f) asked respondents to reflect on their duck hunting satisfactions for “the most recent year hunted in the state where you hunted most”—versus asking respondents to reflect over the last 5 years, the overarching context for most questions throughout the survey. Responses to Q6 revealed that fully 92% (~9390) of respondents participated in the 2004-2005 season. The balance (~775) presumably participated in the 2003-2004 season, because it was in that season that they reported to HIP killing at least 1 duck. The ability to analyze satisfactions for a particular year was partially confounded when the timeframe for mailwaves (notably, wave 2) unavoidably extended into the *current* 2005-2006 duck hunting season—which in fact could have been interpreted by the respondent as the “most recent year you hunted”—but with no way provided in the questionnaire for the respondent to indicate that they were answering with their 2005-2006 experiences in mind. Because response by wave (both postal response and web response) was tracked over the course of this survey and is a variable in the survey’s SPSS data set, a worthy methodological inquiry beyond the scope of this present report would compare Q16a-Q16f responses by mailwave. For now, however, Table 31 summarizes national data for Q16a-Q16f, and Table 32 compares satisfactions for respondents who, it’s assumed, duck hunted most recently in the 03-04 season, and those who presumably participated most recently in 04-05.

TABLE 31. USA—Q16a-Q16f: *“For the most recent year you hunted in the state where you hunted most, how satisfied or dissatisfied were you with:”*

	Very satisfied	Somewhat satisfied	Neutral	Somewhat dissatisfied	Very dissatisfied	Total
Q16a: Number of ducks you saw?	8%	23%	15%	33%	21%	10140
Q16b: Number of ducks you harvested?	8%	21%	21%	32%	18%	10115
Q16c: Timing of duck season?	7%	18%	37%	27%	11%	10074
Q16d: Number of days in duck season?	12%	22%	39%	22%	5%	10054
Q16e: Number of ducks in daily limit?	19%	26%	38%	14%	3%	10112
Q16f: Your overall hunting experience?	15%	33%	20%	24%	8%	10104

In general, duck hunters who most recently hunted in 03-04 (Table 32) tended to evaluate all items in the Q16 series more negatively than hunters who presumably were afield in 04-05—and 03-04 hunters were more likely to offer a “neutral” appraisal of the items, perhaps because of difficulties remembering.

Several items in the Q16 series beg comparison to similar items elsewhere in the questionnaire. For example, Q16a (though specific to a season) is comparable to Q14e (“overall ducks numbers over the last 5 years”); Q14e response showed 32% “somewhat worse” and 25% “much worse” (or 57% “worse” overall duck numbers), compared to Q16a’s 54% that were either “somewhat” (33%) or “very dissatisfied” (21%) with number of ducks seen. Similarly, Q14d (“timing of duck season over the last 5 years”) showed 21% “somewhat worse” and 12% “much worse (or 33% worse “timing of duck season), compared to 38% dissatisfaction registered with “timing of duck season” in Q16c. Similar comparisons can be made between results of Q16d and Q12, Q16e and Q11, and Q16f and Q13; these comparisons highlight good internal consistency in responses to questionnaire items.

TABLE 32. USA—Q16a-Q16f: Comparison of satisfactions for “the most recent year you hunted in the state where you hunted most”...2004-05 (N~9390) and 2003-04 (N~775).

		Hunted ducks during which of the recent seasons?	
		04-05	03-04
Q16a: Number of ducks you saw?	Very satisfied	8%	5%
	Somewhat satisfied	23%	22%
	Neutral	15%	21%
	Somewhat dissatisfied	33%	28%
	Very dissatisfied	21%	25%
Q16b: Number of ducks you harvested?	Very satisfied	8%	4%
	Somewhat satisfied	22%	17%
	Neutral	21%	28%
	Somewhat dissatisfied	32%	32%
	Very dissatisfied	18%	20%
Q16c: Timing of duck season?	Very satisfied	7%	6%
	Somewhat satisfied	19%	12%
	Neutral	36%	46%
	Somewhat dissatisfied	27%	24%
	Very dissatisfied	11%	11%
Q16d: Number of days in duck season?	Very satisfied	12%	7%
	Somewhat satisfied	23%	16%
	Neutral	38%	45%
	Somewhat dissatisfied	22%	27%
	Very dissatisfied	5%	5%
Q16e: Number of ducks in daily limit?	Very satisfied	20%	12%
	Somewhat satisfied	26%	21%
	Neutral	37%	46%
	Somewhat dissatisfied	14%	16%
	Very dissatisfied	3%	4%
Q16f: Your overall hunting experience?	Very satisfied	16%	9%
	Somewhat satisfied	33%	27%
	Neutral	19%	28%
	Somewhat dissatisfied	24%	26%
	Very dissatisfied	8%	10%

Respondents were asked to indicate the minimum number of ducks they needed to harvest in a day’s hunt to feel satisfied with their harvest. Predictably, responses covered the gamut, from the (for some hunters) almost-obligatory “0,” to “more than 7 ducks” (Table 33).

TABLE 33. USA—Q17: Harvest Necessary in a Day's Hunt to Feel Satisfied with Harvest.

Q17: What is the minimum number of ducks you need to harvest in a day's hunt to feel satisfied with your harvest?	0	8%
	1 duck	8%
	2 ducks	16%
	3 ducks	18%
	4 ducks	18%
	5 ducks	11%
	6 ducks	9%
	7 ducks	4%
	More than 7 ducks	3%
	No opinion	5%
	Total	10125

Slight differences were evident among Flyways related to satisfactory harvest (Table 34).

TABLE 34. Flyway—Q17: Harvest Necessary in a Day's Hunt to Feel Satisfied with Harvest.

		Flyway			
		Atlantic	Mississippi	Central	Pacific
Q17: What is the minimum number of ducks you need to harvest in a day's hunt to feel satisfied with your harvest?	0	11%	6%	10%	8%
	1 duck	12%	8%	8%	7%
	2 ducks	16%	17%	13%	12%
	3 ducks	15%	20%	18%	16%
	4 ducks	16%	21%	14%	16%
	5 ducks	10%	8%	13%	16%
	6 ducks	8%	10%	10%	5%
	7 ducks	2%	2%	3%	10%
	More than 7 ducks	3%	3%	5%	4%
	No opinion	7%	5%	6%	6%
	Total	1747	2565	4098	1718

Especially revealing was the comparison of the numbers of ducks that respondents indicated they needed to harvest on a *daily* basis to feel satisfied with their harvest (Q17), with their feelings toward the adequacy of the total daily duck bag limit over the last 5 years in the state they most hunted (Q11) (Table 35). Almost all duck-harvest groups—from those hunters who indicated they need not even kill one duck to be “satisfied with harvest,” to those who needed to kill 6 ducks to be satisfied with their harvest—expressed contentment (at least majority approval) with the duck bag limit over the last 5 years. Perhaps predictably, only those hunters who indicated they needed to kill 7 or more ducks in a day's hunt to feel satisfied with their harvest failed to register majority support of the total daily duck bag limit over the last 5 years.

TABLE 35. USA—Q17: Minimum Satisfactory Daily Duck Harvest, by Satisfaction with Total Daily Duck Bag Limit Over the Last 5 Years (Q11).

		Q11: Which one statement best describes how you feel about the total daily duck bag limit over the last 5 years in the state where you hunted most?				
		Too low	About right	Too high	No opinion	Total
Q17: What is the minimum number of ducks you need to harvest in a day's hunt to feel satisfied with your harvest?	0	2%	81%	7%	10%	811
	1 duck	4%	76%	10%	9%	814
	2 ducks	5%	77%	12%	6%	1544
	3 ducks	6%	77%	13%	5%	1785
	4 ducks	9%	77%	10%	4%	1774
	5 ducks	18%	74%	3%	5%	1069
	6 ducks	30%	64%	1%	5%	876
	7 ducks	47%	48%	0%	5%	364
	More than 7 ducks	70%	25%	1%	4%	345
	No opinion	11%	67%	6%	16%	544
	Total	13%	72%	8%	6%	9925

In similar fashion, respondents were asked to identify the number of ducks they needed to harvest in a season to feel satisfied with their harvest (Table 36).

TABLE 36. USA—Q18: Minimum Number of Ducks Needed to Harvest In a Season to Feel Satisfied with “Your” Harvest.

Q18: What is the minimum number of ducks you need to harvest in a season to feel satisfied with your harvest?	5 ducks or less	8%
	Between 6 and 10 ducks	12%
	Between 11 and 20 ducks	26%
	Between 21 and 50 ducks	30%
	More than 50 ducks	12%
	No opinion	11%
	Total	9974

Particularly illuminating was comparison of the minimum ducks required for a satisfactory seasonal harvest (Q18), with the number of ducks that respondents indicated they usually killed each year over the last 5 years (Table 37). In fact, the question arises, “Which comes first; achievement, or expectation (target)?” Obviously, of the 8% of hunters who indicated they need only harvest 5 ducks *or less* for a satisfactory season, the *entire* group did indeed meet their satisfaction level, given that all of them at least harvested 5 ducks *or less*—perhaps not a very high expectation level, but likely very real for some hunters. Of the 12% of duck hunters needing 6 to 10 ducks for a successful seasonal harvest, two-thirds harvested at least 6 to 10 ducks. Of the 26% of duck hunters who think 11 to 20 ducks equates with a satisfactory season harvest, 53% met their expectation. Of the 30% of duck hunters who think that 21 to 50 ducks is a satisfactory season harvest, 55% met their desired minimum annual harvest. Finally, of the 12% thinking that “more than 50 ducks” a season is satisfying, 54% indicated their annual harvest over the last 5 years was, indeed, “more than 50.”

National Duck Hunter Survey 2005 – National Report

In summary—and profoundly—whatever hunters’ *expressed* evaluation of duck numbers, season length, and other factors about which they were asked in the NDHS that might contribute to a successful season, when it comes to harvesting ducks, current regulatory structures apparently are allowing *majorities* of hunters to achieve their stated, desired levels of harvest expectations.

TABLE 37. USA—Q18: Minimum Number of Ducks for a Satisfactory Season Harvest, by Usual Harvest per Year Over the Last 5 Years (Q4).

		Q4: Over the last five years, about how many ducks did you usually harvest in a year?					
		5 or less	6 to10	11 to 20	21 to 50	>50	Total
Q18: What is the minimum number of ducks you need to harvest in a season to feel satisfied with your harvest?	5 ducks or less	45%	26%	18%	9%	2%	817
	Between 6 and 10 ducks	34%	40%	21%	4%	1%	1236
	Between 11 and 20 ducks	14%	33%	40%	12%	1%	2629
	Between 21 and 50 ducks	5%	12%	28%	47%	8%	3023
	More than 50 ducks	2%	3%	9%	32%	54%	1176
	No opinion	17%	19%	25%	25%	15%	1059
	Total	15%	22%	27%	25%	11%	9941

In question 19, respondents were asked to evaluate each of four season options. These options represent different approaches to allowing harvest on abundant species, while protecting species that cannot support as much harvest. Q19d captures the “Hunter’s Choice” concept developed by the Central Flyway Council. At the USA level (Table 38), three alternatives were favorably received—items Q19a, Q19c, and Q19d. Only one alternative, Q19b, was roundly rejected—it suggested, “A shorter season for *all* ducks....”

National Duck Hunter Survey 2005 – National Report

TABLE 38. USA—Q19a-19d: “How much do you support or oppose each of the following season options?”

	Strongly support	Somewhat support	Unsure	Somewhat oppose	Strongly oppose	Total
Q19a: How much do you support "Closed seasons on ducks with lower population levels so the overall season can be long for more abundant ducks?"	39%	36%	14%	8%	4%	10141
Q19b: How much do you support "A shorter season for all ducks to meet needs of ducks with lower population levels?"	8%	13%	17%	32%	30%	10136
Q19c: How much do you support "Shorter seasons for ducks with lower population levels within a longer season for abundant ducks?"	43%	37%	9%	7%	3%	10152
Q19d: How much do you support "Longer season for all ducks, with daily bag limit restrictions for ducks with lower population levels?"	38%	31%	15%	11%	5%	10143

At the USA level (Table 38), first appearances were that option c was most preferred. However, when respondents were asked to select only 1 of the 4 options as their preferred alternative, option d was most preferred at USA (Table 39), Flyway (Table 40), and Sub-Flyway levels (Table 41), consistently followed by option c, then a, and option b trailed, with little support.

TABLE 39. USA—Q20: “Which of the 4 options (a-d) listed in question 19 above [see Table 38] would you most prefer?”

Q20: Which one of the 4 options listed in question 19 would you most prefer?	Q19A, Closed seasons on some but longer overall	20%
	Q19B, Shorter seasons to meet needs of low-pop	6%
	Q19C, Shorter low-pop seasons within longer season	27%
	Q19D. Longer seasons & low-pop bag restrictions	47%
	Total	10057

TABLE 40. Flyway—Q20: “Which of the 4 options (a-d) listed in question 19 above [see Table 38] would you most prefer?”

		Q20: Which one of the 4 options listed in question 19 would you most prefer?				
		Q19A, Closed seasons on some but longer overall	Q19B, Shorter seasons to meet needs of low-pop ducks	Q19C, Shorter low-pop seasons	Q19D. Longer seasons & low-pop bag	Total
Flyway	Atlantic	22%	4%	30%	44%	1750
	Missi'ippi	20%	8%	27%	45%	2550
	Central	19%	5%	29%	47%	4057
	Pacific	17%	6%	24%	54%	1691
	USA	20%	6%	27%	47%	10048

TABLE 41. Sub-Flyway—Q20. “Which of the 4 options (a-d) listed in question 19 above [see Table 38] would you most prefer?”

		Q20: Which one of the 4 options listed in question 19 would you most prefer?				
		Q19A, Closed seasons on some but longer overall	Q19B, Shorter seasons to meet needs of low-pop ducks	Q19C, Shorter low-pop seasons within longer season	Q19D. Longer seasons & low-pop bag restrictions	Total
Sub-Flyway	Lower AT	20%	5%	28%	47%	226
	Middle AT	21%	4%	32%	43%	802
	Upper AT	26%	3%	28%	42%	723
	Lower MS	18%	8%	26%	48%	638
	Middle MS	21%	4%	28%	47%	1057
	Upper MS	21%	10%	28%	42%	855
	Lower CN	20%	5%	29%	45%	828
	Middle CN	20%	3%	30%	46%	1847
	Upper CN	17%	6%	28%	49%	1379
	Lower PC	13%	10%	22%	55%	276
	Middle PC	15%	4%	20%	61%	655
	Upper PC	20%	5%	27%	48%	761

Duck hunters were asked to indicate how small the daily bag limit would have to be before they would no longer hunt (Table 42). With a 6-duck limit, 2% of respondents would no longer hunt; if a 5-duck limit were implemented, another 3% would be lost; at a 4-duck limit, another 12%; at a 3-duck limit, another 20% would not participate, at a 2-duck, another 20% gone, and with a 1-duck limit, additional 7% desertion. The “die-hard” group—“I’ll hunt with any size daily bag limit” (36%)—would probably throw their lot in with the 1-duck group, because, in a practical sense, to go afield “to hunt ducks” with a bag limit of “0” probably raises some regulatory issues. Nonetheless, the point of this group was well-taken—that so committed are they to duck hunting, that they’d still go afield with any bag (probably, 1-duck).

TABLE 42. USA—Q21: “How small would the daily bag limit have to be before you would no longer hunt?”

Q21: How small would the daily bag limit have to be before you would no longer hunt?	6 ducks	2%
	5 ducks	3%
	4 ducks	12%
	3 ducks	20%
	2 ducks	20%
	1 duck	7%
	I'll hunt with any limit	36%
	Total	10099

Duck hunters indicated what they thought the daily bag limit for hen mallards should be (Table 43).

TABLE 43. Flyway—Q22: “What do you think the daily bag limit for hen mallards should be?”

		Q22: What do you think the daily bag limit for hen mallards should be?					Total
		0	1 hen	2 hens	3 or more hens	No opinion	
Flyway	Atlantic	5%	36%	40%	7%	13%	1754
	Mississippi	7%	51%	33%	3%	6%	2564
	Central	8%	43%	32%	6%	11%	4087
	Pacific	5%	34%	43%	6%	11%	1721
	USA	7%	45%	35%	5%	8%	10127

Plurality opinions of Mississippi and Central Flyway hunters were “1 hen,” while the Atlantic and Pacific Flyways were “2 hens.”

Questions 23, 24, and 25 (Tables 44-46) were designed to explore duck hunters’ opinions of the frequency and magnitude of regulatory changes and the associated trade-offs. The questions capture options that affect Adaptive Harvest Management protocols.

TABLE 44. Flyway—Q23: “Would you be willing to accept an overall smaller bag limit to have fewer species and sex bag limit restriction?”

		Q23: Would you be willing to accept an overall smaller bag limit to have fewer species and sex bag limit restrictions?			
		Yes	No	No opinion	Total
Flyway	Atlantic	32%	39%	29%	1748
	Mississippi	35%	43%	23%	2571
	Central	31%	45%	23%	4088
	Pacific	32%	48%	20%	1723
	USA	33%	43%	24%	10130

Ringelman (1997) asked this same question (Q23) in an earlier national survey of duck hunters; results are virtually unchanged—in 1995, Yes, 30%; No, 46%; and No opinion, 24%.

TABLE 45. Flyway—Q24: “In the past, changes in season lengths were necessary to respond to changing duck populations. In the event of future changes, which would you prefer?”

		Q24: In the past, changes in season lengths were necessary to respond to changing duck populations. In the event of future changes, which would you prefer?			
		Most seasons either max or min length	Most seasons intermediate length	I'm not sure	Total
Flyway	Atlantic	20%	29%	52%	1727
	Missi'ippi	18%	32%	50%	2546
	Central	18%	30%	52%	4061
	Pacific	19%	26%	56%	1695
	USA	18%	30%	52%	10028

Significantly, the proportion of respondents answering “no opinion” (24% for Q23) and “I’m not sure” (52% for Q24) was higher than for any other questions in the survey. These numbers combined with handwritten comments on the survey forms, indicates that many respondents did not understand the questions and/or the associated tradeoffs.

Question 25 (Table 46) asked duck hunters about annual changes to regulations and its affect on their duck hunting satisfaction.

TABLE 46. Flyway—Q25: “How does changing bag limits and season lengths from year to year affect your duck hunting satisfaction?”

		Q25: How does changing bag limits and season lengths from year to year affect your duck hunting satisfaction?			
		Increases satisfaction	No effect	Decreases satisfaction	Total
Flyway	Atlantic	7%	67%	26%	1714
	Missi'ippi	6%	67%	27%	2532
	Central	5%	70%	26%	3994
	Pacific	4%	66%	30%	1678
	USA	5%	68%	27%	9919

Hunters’ were asked about their use and viewpoint of spinning-wing decoys (Tables 47-48). Note that in some states the use of spinning-wing decoys is restricted or illegal.

TABLE 47. Sub-Flyway—Q26: “For the most recent year you hunted ducks, how often did you use a motorized spinning-wing decoy?”

		Q26: For the most recent year you hunted ducks, how often did you use a motorized spinning-wing decoy?			
		Always	Sometimes	Never	Total
Sub-Flyway	Lower AT	7%	37%	56%	222
	Middle AT	6%	32%	62%	779
	Upper AT	9%	24%	67%	705
	Lower MS	19%	51%	31%	632
	Middle MS	16%	54%	29%	1045
	Upper MS	12%	35%	53%	845
	Lower CN	11%	41%	48%	806
	Middle CN	16%	41%	44%	1815
	Upper CN	16%	36%	47%	1359
	Lower PC	9%	29%	61%	270
	Middle PC	11%	53%	36%	646
	Upper PC	6%	16%	79%	759
USA	13%	40%	47%	9882	

TABLE 48. Sub-Flyway—Q27: “Which of the following best describes your viewpoint about motorized spinning-wing decoys?”

		q27: Which of the following best describes your viewpoint about motorized spinning-wing			
		Be allowed	Not be allowed	No opinion	Total
Sub-Flyway	Lower AT	46%	17%	37%	224
	Middle AT	54%	21%	26%	788
	Upper AT	46%	22%	32%	707
	Lower MS	48%	32%	20%	630
	Middle MS	58%	21%	21%	1051
	Upper MS	52%	27%	21%	847
	Lower CN	55%	16%	29%	812
	Middle CN	56%	19%	25%	1829
	Upper CN	64%	14%	22%	1361
	Lower PC	55%	17%	29%	271
	Middle PC	55%	26%	19%	647
	Upper PC	47%	29%	24%	762
USA	53%	23%	24%	9930	

Hunters who think spinning-wing decoys should be allowed are those most prone to use them (71% “sometimes” or “always”) (Table 49). And of those who think spinning-wing decoys should not be allowed, 27% “sometimes” use them, and 6%, “always.”

National Duck Hunter Survey 2005 – National Report

TABLE 49. USA—Q27: Opinion of Allowing (or Not) Spinning Wing Decoys, by Use of Spinning-Wing Decoy in Most Recent Year of Duck Hunting (Q26).

		Q26: For the most recent year you hunted ducks, how often did you use a motorized spinning-wing decoy?			
		Always	Sometimes	Never	Total
q27: Which of the following best describes your viewpoint about motorized spinning-wing decoys?	Should be allowed	20%	51%	30%	5190
	Should not be allowed	6%	27%	67%	2307
	No opinion	4%	29%	67%	2370
	Total	13%	40%	47%	9867

Proportions of hunters who thought that spinning-wing decoys should be allowed were reasonably consistent across all categories of annual harvest (from “5 ducks or less” yearly to “over 50 ducks” annually) (Table 50).

TABLE 50. USA—Q4: Usual Annual Duck Harvest (Last 5 Years), by Opinion of Allowing (or Not) Spinning-Wing Decoys (Q27).

		q27: Which of the following best describes your viewpoint about motorized spinning-wing decoys?			
		Should be allowed	Should not be allowed	No opinion	Total
Q4: Over the last five years, about how many ducks did you usually harvest in a year?	5 or less	45%	22%	33%	1517
	6 to10	51%	22%	27%	2157
	11 to 20	56%	21%	23%	2675
	21 to 50	55%	25%	19%	2472
	>50	53%	29%	18%	1073
	Total	53%	23%	24%	9894

Perhaps most telling, however, were comparisons of ducks usually harvested each year by amount of use of spinning wing decoys (Table 51). For those who harvest 5 ducks or less each year, about 70% “never” use spinning wing decoys; for those who harvest over 50 ducks a year, almost 80% use spinning wing decoys “always” (51%) or “sometimes” (27%).

TABLE 51. USA—Q4: Usual Annual Duck Harvest (Last 5 Years), by Frequency of Using Spinning Wing Decoys (Q26).

		Q26: For the most recent year you hunted ducks, how often did you use a motorized spinning-wing decoy?			
		Always	Sometimes	Never	Total
Q4: Over the last five years, about how many ducks did you usually harvest in a year?	5 or less	7%	22%	72%	1514
	6 to10	9%	34%	57%	2146
	11 to 20	13%	42%	46%	2672
	21 to 50	15%	50%	35%	2452
	>50	22%	51%	27%	1071
	Total	13%	40%	47%	9856

Hunters indicated the trust they put in a wide-ranging list of 12 groups to represent interests of duck hunters like them (Table 52).

TABLE 52. USA—Q28a-Q28l: “How much trust do you put in each of the following to represent interests of duck hunters like you?”

	High	Medium	Low	None	Don't know	Total
Q28a: Waterfowl biologists?	41%	42%	10%	3%	4%	10038
Q28b: Commercial interests?	2%	14%	43%	35%	5%	9995
Q28c: Legislators?	2%	10%	43%	41%	4%	9972
Q28d: Experienced duck hunters?	58%	35%	5%	1%	2%	10001
Q28e: All duck hunters?	13%	51%	30%	3%	3%	10016
Q28f: General public?	1%	8%	42%	45%	4%	10021
Q28g: Commercial duck clubs?	11%	32%	34%	19%	5%	9997
Q28h: Conservation groups?	51%	32%	10%	5%	3%	10079
Q28i: Flyway Councils?	25%	43%	15%	4%	13%	10001
Q28j: Outdoor writers/TV personalities?	6%	33%	38%	18%	5%	10019
Q28k: Duck hunting guides?	17%	38%	28%	11%	6%	10067
q28l: Wildlife agencies?	25%	47%	20%	5%	3%	10063

Means scores were calculated for each group, and these means were ranked and word anchors assigned based on rounded means (Table 53). The only group in which hunters placed “high trust” to represent interests of duck hunters was “avid/experienced duck hunters.” Respondents placed “medium trust” in conservation groups (such as “DU, Delta”), waterfowl biologists, Flyway Councils, all duck hunters, and duck hunting guides. Seen in less than high or medium trust role for representing the interests of duck hunters were commercial/business interests, outdoor writers/TV personalities, legislators, and the general public.

TABLE 53. USA—Q28a-28l: “How much trust do you put in each of the following to represent interests of duck hunters like you?”(Ascending means ranked from high trust (1) to low trust (12), and Word Anchors).

	N	(Rank) Mean	Word Anchor
Q28d: Experienced Duck Hunters?	9817	(1) 1.48	High Trust
Q28h: Conservation Groups?	9818	(2) 1.68	Medium Trust
Q28a: Waterfowl biologists?	9633	(3) 1.74	Medium Trust
Q28i: Flyway Councils?	8684	(4) 1.97	Medium Trust
q28l: Wildlife Agencies?	9717	(5) 2.04	Medium Trust
Q28e: All duck Hunters?	9739	(6) 2.23	Medium Trust
Q28k: Duck hunting guides?	9512	(7) 2.36	Medium Trust
Q28g: Commercial Duck Clubs?	9541	(8) 2.64	Low Trust
Q28j: Outdoor writers/TV personalities?	9500	(9) 2.72	Low Trust
Q28b: Commercial/Business interests?	9459	(10) 3.18	Low Trust
Q28c: Legislators?	9560	(11) 3.30	Low Trust
Q28f: General Public?	9645	(12) 3.36	Low Trust

Duck hunters use of the internet to look up duck hunting information was measured (Table 54).

TABLE 54. USA—Q29: “Do you access the internet to look up duck hunting information?”

Q29: Do you access the internet to look up duck hunting information?	Frequently	20%
	Once in a while	49%
	Not at all	31%
	Total	10142

There was no strong relationship between use of the internet to look up duck hunting information, and respondents’ appraisal of changes in overall duck hunting quality over the past 5 years (Table 55).

TABLE 55. USA—Q13: *Observed Changes in Duck Hunting Quality Over Last 5 Years, by Use of Internet to Look Up Duck Hunting Information (Q29).*

		Q29: Do you access the internet to look up duck hunting information?			
		Frequently	Once in a while	Not at all	Total
Q13: What changes have you observed in the overall quality of your duck hunting over the last 5 years in the state where you hunted most?	Gotten much better	20%	48%	32%	322
	Gotten a little better	22%	52%	26%	1135
	Stayed about the same	19%	48%	33%	2643
	Gotten a little worse	20%	50%	30%	3220
	Gotten much worse	20%	48%	32%	2430
	No opinion	14%	45%	41%	255
Total		20%	49%	31%	10006

Classification variables useful for a variety of cross tabulations in this and future reports included (a) dollars spent on duck hunting each year (Table 56), (b) gender (Table 57), and (c) age (Table 58).

TABLE 56. USA—Q30: *“About how much do you spend on duck hunting each year?”*

Q30: About how much do you spend on duck hunting each year?	\$250 or less	35%
	\$251-\$1000	45%
	\$1001-\$5000	17%
	Over \$5000	3%
	Total	10097

TABLE 57. USA—Q31: *“Please indicate your sex:”*

q31: Please indicate your sex:	Male	99%
	Female	1%
	Total	10077

TABLE 58. USA—Q32: *“Please indicate your age:”*

Q32: Please indicate your age:	24 or under	12%
	25-44	41%
	45-64	40%
	65 or over	7%
	Total	10120

References

- Arkin, H. and R.R. Colton, 1963. Tables for statisticians. New York: Barnes & Noble, 168pp.
- Leonard, J. 2004. Deer hunting in the United States: an analysis of hunter demographics and behavior, USDI Fish and Wildl. Serv., Report 2001-6, 32pp.
- Miller, C.A. 2003. Use of the internet among Illinois hunters: defining the market. *Human dimensions of wildl.*, 8:307-308
- Ringelman, J. (1997). Effects of regulations and duck abundance on duck hunter participation and satisfaction. *Proceedings of the Sixty-second North American Wildlife and Natural Resources Conference*. Wildlife Management Institute: Washington, D.C.
- SAS© Institute, 1999. SASOnLineDoc, ver. 8, <http://v8doc.sas.com/sashtml/>.
- SPSS, 2003. SPSS 13.0 Brief Guide, SPSS Inc., 233 South Wacker Dr., Chicago, IL, 231pp.
- The Gallup Organization, 2002. National survey of drinking and driving attitudes and behavior: 2001. Vol. II-Methods Report, Nov. 2002, The Gallup Organization, 901 F. St. NW, Washington, D.C. 2004.
- USDI Fish and Wildlife Service. 2002. 2001 National Survey of Fishing, Hunting, and Wildlife-Associated Recreation, Fish and Wildlife Service and U.S. Dept. of Commerce, U.S. Census Bureau, 116pp+.
- Witter, D.J., and L. R. Jahn. Emergence of human dimensions in wildlife management. 1998. *Trans. N. Am. Nat. Resour. Conf.*, 63:200-214.

Appendix A: Strategy Team and NFC Survey Committee Members

Strategy Team Members

Ken Babcock, Ducks Unlimited, Inc.
Bob Blohm, U.S. Fish and Wildlife Service
Don Childress, Montana Department of Fish, Wildlife and Parks
Bob Ellis, Virginia Department of Game and Inland Fisheries
David Erickson, Missouri Department of Conservation
Tom Hauge, Wisconsin Department of Natural Resources
Randy Kreil, North Dakota Game and Fish Department
Wayne MacCallum, Massachusetts Division of Fisheries and Wildlife
Ralph Morgenweck, U.S. Fish and Wildlife Service
Paul Padding, U.S. Fish and Wildlife Service
Paul Schmidt, U.S. Fish and Wildlife Service
Ken Williams, U.S. Geological Survey
Steve Williams, Wildlife Management Institute
Scot Williamson, Wildlife Management Institute
Dave Case, D.J. Case & Associates
Dan Witter, D.J. Case & Associates

NFC Survey Committee

Brad Bales, Oregon Department of Fish and Wildlife
Diane Eggeman, Florida Fish and Wildlife Conservation Commission
Jim Gammonley, Colorado Division of Wildlife
Coren Jagnow, Virginia Department of Game and Inland Fisheries
Fred Johnson, U.S. Fish and Wildlife Service
Don Kraege, Washington Department of Fish and Wildlife
Craig A. Miller, Louisiana State University
Michael E. O'Meilia, Oklahoma Department of Wildlife Conservation
Paul Padding, U.S. Fish and Wildlife Service
Andy Raedeke, Missouri Department of Conservation
Bryan Swift, New York Department of Environmental Conservation
Mark Vrtiska, Nebraska Game and Parks Commission
Dave Case, D.J. Case & Associates
Sarah Sanders, D.J. Case & Associates
Dan Witter, D.J. Case & Associates

Appendix B: National Duck Hunter Survey 2005 and Reminder Postcard



NATIONAL FLYWAY COUNCIL

Pacific est. 1952 - Central est. 1948 - Mississippi est. 1952 - Atlantic est. 1952



Duck hunters face important issues throughout North America. Your opinions are important. This is your chance to give us input about duck management. You're one of a select group chosen at random to help us understand hunters' opinions of duck hunting today. This survey is sponsored by the National Flyway Council in cooperation with your state fish and wildlife agency; *it has no commercial or business sponsorship ties*. Your answers will not be associated with your name and your questionnaire is tracked for mailing purposes only. Even if you don't hunt ducks, please complete Question 1 and then return the questionnaire. Please return the questionnaire in the postage-paid envelope provided. Thank you for helping us understand more about what is important to duck hunters in North America.

Sincerely,

Don Childress,
Chair, National Flyway Council
Administrator, Montana Department of Fish, Wildlife and Parks
Box 200701
Helena, MT 59620

P.S. If you prefer to complete the survey on-line, please go to the following website:

www.ducksurvey.com

2005 Duck Hunter Survey

Please completely and carefully fill in each chosen circle with a #2 pencil or blue/black pen.

- | | |
|--|---|
| <p>1. Which of the following statements best describes your pursuits in waterfowl hunting? (Fill in one circle.)</p> <ul style="list-style-type: none"> <input type="radio"/> I hunt only ducks. <input type="radio"/> I hunt ducks and geese. <input type="radio"/> I hunt only geese. (STOP, return survey.) <input type="radio"/> I hunt neither ducks nor geese. (STOP, return survey.) | <p>2. How important is duck hunting to you? (Fill in one circle.)</p> <ul style="list-style-type: none"> <input type="radio"/> It's my most important recreational activity. <input type="radio"/> It's one of my most important recreational activities. <input type="radio"/> It's no more important than my other recreational activities. <input type="radio"/> It's less important than my other recreational activities. <input type="radio"/> It's one of my least important recreational activities. |
|--|---|

Appendix B: National Duck Hunter Survey 2005 and Reminder Postcard

15. Please indicate how much more or less of a problem the following have become over the last 5 years in the state where you hunted most.

	Much More	Somewhat More	Neither More Nor Less	Somewhat Less	Much Less	Don't Know
a. Crowding at hunting areas	<input type="radio"/>					
b. Hunting pressure	<input type="radio"/>					
c. Ducks unable to find rest areas	<input type="radio"/>					
d. Shifting duck migration routes	<input type="radio"/>					
e. Interference from other hunters	<input type="radio"/>					
f. Ducks arriving after the season is closed	<input type="radio"/>					
g. Ducks concentrating on fewer areas	<input type="radio"/>					

16. For the **most recent year** you hunted in the state where you hunted most, how satisfied or dissatisfied were you with:

	Very Satisfied	Somewhat Satisfied	Neutral	Somewhat Dissatisfied	Very Dissatisfied
a. The number of ducks you saw during the season	<input type="radio"/>				
b. The number of ducks you harvested during the season	<input type="radio"/>				
c. The timing of the duck season	<input type="radio"/>				
d. The number of days in the duck season	<input type="radio"/>				
e. The number of ducks in the daily limit	<input type="radio"/>				
f. Your overall hunting experience	<input type="radio"/>				

17. What is the **minimum** number of ducks you need to harvest **in a day's hunt** to feel **satisfied** with your harvest? (Fill in one circle.)

0 4 ducks More than 7 ducks
 1 duck 5 ducks No opinion
 2 ducks 6 ducks
 3 ducks 7 ducks

18. What is the **minimum** number of ducks you need to harvest **in a season** to feel **satisfied** with your harvest? (Fill in one circle.)

5 ducks or less More than 50 ducks
 Between 6 and 10 ducks No opinion
 Between 11 and 20 ducks
 Between 21 and 50 ducks

19. How much do you support or oppose each of the following season options?

	Strongly Support	Somewhat Support	Unsure	Somewhat Oppose	Strongly Oppose
a. Closed seasons on ducks with lower population levels (such as canvasbacks and pintails) so that the overall season can be long for ducks that are more abundant.	<input type="radio"/>				
b. A shorter season for <i>all</i> ducks to meet the needs of ducks with lower population levels (such as canvasbacks and pintails).	<input type="radio"/>				
c. Shorter seasons for ducks with lower population levels (such as canvasbacks and pintails), within a longer season for abundant ducks (such as mallards).	<input type="radio"/>				
d. Longer season for all ducks, with daily bag limit restrictions for ducks with lower population levels (for example, <u>no more than one</u> hen mallard <u>OR</u> one pintail <u>OR</u> one canvasback per day).	<input type="radio"/>				

20. Which one of the 4 options (a-d) listed in question 19 above would you **most** prefer? (Fill in one circle)

a
 b
 c
 d

21. How small would the daily bag limit have to be before you would no longer hunt? (Fill in one circle.)

6 ducks 2 ducks
 5 ducks 1 duck
 4 ducks I'll hunt with any size daily bag limit.
 3 ducks

Appendix B: National Duck Hunter Survey 2005 and Reminder Postcard

22. What do you think the daily bag limit for *hen mallards* should be? (Fill in one circle.)

- 0 2 hens No opinion
 1 hen 3 or more hens

23. Would you be willing to accept an overall smaller bag limit to have fewer species and sex bag limit restrictions? (Fill in one circle.)

- Yes No No opinion

24. In the past, changes in season lengths were necessary to respond to changing duck populations. In the event of future changes, which would you prefer? (Fill in one circle.)

- Most seasons should be either maximum length or minimum length, with few seasons of intermediate length.
 Most seasons should be intermediate length, with few seasons of maximum length or minimum length.
 I'm not sure.

25. How does changing bag limits and season lengths from year to year affect your duck hunting satisfaction? (Fill in one circle.)

- Increases satisfaction
 No effect
 Decreases satisfaction

26. For the *most recent* year you hunted ducks, how often did you use a motorized spinning-wing decoy? (Fill in one circle.)

- Always Sometimes Never

27. Which of the following best describes your view-point about motorized spinning-wing decoys? (Fill in one circle.)

- They should be allowed.
 They should not be allowed.
 No opinion

28. How much trust do you put in each of the following to represent interests of duck hunters like you?

	High	Medium	Low	None	Don't know
a. Waterfowl biologists	<input type="radio"/>				
b. Commercial/business interests	<input type="radio"/>				
c. Legislators	<input type="radio"/>				
d. Avid/experienced duck hunters	<input type="radio"/>				
e. All duck hunters	<input type="radio"/>				
f. The general public	<input type="radio"/>				
g. Commercial duck clubs	<input type="radio"/>				
h. Conservation groups (like DU and Delta)	<input type="radio"/>				
i. Flyway Councils	<input type="radio"/>				
j. Outdoor writers/TV personalities	<input type="radio"/>				
k. Duck hunting guides	<input type="radio"/>				
l. Wildlife agencies	<input type="radio"/>				

29. Do you access the internet to look up duck hunting information? (Fill in one circle.)

- Frequently
 Once in a while
 Not at all

31. Please indicate your sex:

- Male
 Female

30. About how much do you spend on duck hunting each year? (Fill in one circle.)

- \$250 or less \$1,001-\$5,000
 \$251-\$1,000 Over \$5,000

32. Please indicate your age:

- 24 or under
 25-44
 45-64
 65 or over

THANK YOU FOR TAKING TIME TO COMPLETE THIS SURVEY!

Please return this questionnaire using the postage paid, self-addressed envelope provided.

8/05

Appendix B: National Duck Hunter Survey 2005 and Reminder Postcard

National Duck Hunter Survey Project
c/o Assessment Resource Center
2800 Maguire Blvd.
Columbia, MO 65211

PRE-SORT
FIRST CLASS
U S POSTAGE
PAID
UNIV OF MO

Dear Waterfowl Hunter,

We need your feedback! A couple of weeks ago you received a questionnaire sponsored by the National Flyway Council in the mail. If you have completed and returned this survey, please accept our sincere thanks! If not, we hope you will consider doing so soon. We are especially grateful for your participation because we understand that the only way to truly understand the issues that waterfowl hunters such as yourself face is to ask directly!



Sincerely,

A handwritten signature in cursive script that reads "Don Childress".

Don Childress
Chair, National Flyway Council
Administrator, Montana Department of Fish, Wildlife and Parks
Box 200701
Helena, MT 59620

Appendix C: USA, Flyway and Sub-Flyway Weight Tables

Weights applied to each respondent for USA analysis

State	Estimated number of active duck hunters, 2004	State proportion relative to stratum	SUBF Proportional sample size	Adjusted for minimum sample of 100	Names available (successful duck hunters)	Number of Respondents	USAprp	USAprd	USAwgt
Connecticut	2900	0.0028	119	119	507	51	0.0027767	28.375239	0.5563772
Maine	5700	0.0055	234	234	2643	66	0.0054577	55.772022	0.8450306
Massachusetts	3100	0.0030	127	127	2214	62	0.0029682	30.332152	0.4892283
New Hampshire	1900	0.0018	78	100	1357	41	0.0018192	18.590674	0.4534311
New York	19500	0.0187	801	713	13231	422	0.018671	190.79902	0.4521304
Rhode Island	800	0.0008	33	100	754	45	0.000766	7.8276522	0.1739478
Vermont	2600	0.0025	107	107	1842	44	0.0024895	25.43987	0.5781789
Delaware	4500	0.0043	92	100	3336	28	0.0043087	44.030544	1.5725194
Maryland N=1300	20600	0.0197	423	1300	14197	388	0.0197242	201.56205	0.5194898
New Jersey	6400	0.0061	132	132	4159	62	0.0061279	62.621218	1.0100196
Pennsylvania	23500	0.0225	483	438	3160	160	0.022501	229.93728	1.437108
Virginia	16900	0.0162	347	347	8944	145	0.0161815	165.35915	1.140408
West Virginia	1100	0.0011	23	100	686	31	0.0010532	10.763022	0.3471943
Florida	12400	0.0119	295	295	12265	62	0.0118728	121.32861	1.9569131
Georgia	13200	0.0126	314	314	15307	29	0.0126388	129.15626	4.4536642
North Carolina	22000	0.0211	524	524	19393	51	0.0210647	215.26044	4.2207929
South Carolina	15400	0.0147	367	367	16622	87	0.0147453	150.68231	1.7319805
Michigan	43100	0.0413	323	323	36870	125	0.0412677	421.71476	3.3737181
Minnesota	89600	0.0858	672	672	94112	233	0.0857909	876.69705	3.7626483
Wisconsin N=1300	67400	0.0645	505	1300	54930	505	0.0645347	659.4797	1.3059004
Illinois	37300	0.0357	421	421	23534	196	0.0357143	364.96429	1.8620627
Indiana	13000	0.0124	147	147	9793	67	0.0124473	127.19935	1.8984977
Iowa N=1300	20400	0.0195	230	1300	19561	556	0.0195327	199.60513	0.359002
Kentucky	12100	0.0116	137	137	1211	51	0.0115856	118.39324	2.3214361
Missouri	28500	0.0273	322	322	16466	125	0.0272884	278.86011	2.2308809
Ohio	21500	0.0206	243	243	22812	77	0.020586	210.36815	2.7320539
Alabama	12400	0.0119	107	108	5279	26	0.0118728	121.32861	4.666485
Arkansas N=1300	67800	0.0649	588	1300	55691	347	0.0649177	663.39353	1.9117969
Louisiana	52200	0.0500	452	452	40726	103	0.0499809	510.75431	4.9587797
Mississippi	19200	0.0184	166	166	18204	38	0.0183838	187.86365	4.9437804
Tenn N=1000	21500	0.0206	186	1000	17758	136	0.020586	210.36815	1.5468247
Montana-Central	6500	0.0062	157	1300	3915	424	0.0062237	63.599674	0.1499992
North Dakota	36900	0.0353	890	1300	29773	503	0.0353313	361.05046	0.7177942
South Dakota	18800	0.0180	453	1300	15914	483	0.0180008	183.94983	0.3808485
Colorado	13600	0.0130	385	1300	10472	488	0.0130218	133.07009	0.2726846
Kansas	19200	0.0184	543	1300	18030	415	0.0183838	187.86365	0.4526835
Nebraska	16800	0.0161	475	1300	15418	541	0.0160858	164.3807	0.303846
Wyoming	3400	0.0033	96	1159	1159	428	0.0032555	33.267522	0.0777279
New Mexico	3300	0.0032	48	510	510	194	0.0031597	32.289065	0.1664385
Oklahoma	15300	0.0146	222	1300	13349	401	0.0146496	149.70385	0.3733263
Texas	84900	0.0813	1230	1300	75593	243	0.0812907	830.70959	3.418558
Alaska	4800	0.0046	147	147	3811	65	0.0045959	46.965913	0.7225525
Arizona	3700	0.0035	113	113	3016	33	0.0035427	36.202892	1.0970573
California	52900	0.0507	1617	1616	1240	670	0.0506511	517.6035	0.7725425
Idaho	17100	0.0164	523	523	12596	174	0.016373	167.31607	0.9615866
Montana-Pacific	7900	0.0076	242	242	4814	79	0.0075642	77.298066	0.9784565
Nevada	3500	0.0034	107	107	2367	46	0.0033512	34.245979	0.7444778
Oregon	18500	0.0177	566	566	16987	190	0.0177135	181.01446	0.9527077
Utah	16400	0.0157	501	501	11378	203	0.0157028	160.46687	0.7904772
Washington	22400	0.0214	685	685	19074	280	0.0214477	219.17426	0.7827652
TOTAL	1044400		17998	29877	796980	10219		10219	

Appendix C: USA, Flyway and Sub-Flyway Weight Tables

Weights applied to each respondent for Flyway analysis

State	Estimated number of active duck hunters, 2004	State proportion relative to stratum	SUBF Proportional sample size	Adjusted for minimum sample of 100	Names available (successful duck hunters)	Number Of Respondents	FLYprop	FLYprod	FLYwgt
ATLANTIC									
Connecticut	2900	0.0168	119	119	507	51	0.016812	29.82377	0.58478
Maine	5700	0.0330	234	234	2643	66	0.033043	58.61913	0.888169
Massachusetts	3100	0.0180	127	127	2214	62	0.017971	31.88058	0.514203
New Hampshire	1900	0.0110	78	100	1357	41	0.011014	19.53971	0.476578
New York	19500	0.1130	801	713	13231	422	0.113043	200.5391	0.475211
Rhode Island	800	0.0046	33	100	754	45	0.004638	8.227246	0.182828
Vermont	2600	0.0151	107	107	1842	44	0.015072	26.73855	0.607694
Delaware	4500	0.0261	92	100	3336	28	0.026087	46.27826	1.652795
Maryland									
N=1300	20600	0.1194	423	1300	14197	388	0.11942	211.8516	0.546009
New Jersey	6400	0.0371	132	132	4159	62	0.037101	65.81797	1.06158
Pennsylvania	23500	0.1362	483	438	3160	160	0.136232	241.6754	1.510471
Virginia	16900	0.0980	347	347	8944	145	0.097971	173.8006	1.198625
West Virginia	1100	0.0064	23	100	686	31	0.006377	11.31246	0.364918
Florida	12400	0.0719	295	295	12265	62	0.071884	127.5223	2.056812
Georgia	13200	0.0765	314	314	15307	29	0.076522	135.7496	4.681019
North Carolina	22000	0.1275	524	524	19393	51	0.127536	226.2493	4.43626
South Carolina	15400	0.0893	367	367	16622	87	0.089275	158.3745	1.820396
	172500	1.0000	4499	5417	120617	1774	1	1774	
MISSISSIPPI									
Michigan	43100	0.09	323	323	36870	125	0.085178	220.1848	1.761478
Minnesota	89600	0.18	672	672	94112	233	0.177075	457.7391	1.964546
Wisconsin									
N=1300	67400	0.13	505	1300	54930	505	0.133202	344.3261	0.681834
Illinois	37300	0.07	421	421	23534	196	0.073715	190.5543	0.972216
Indiana	13000	0.03	147	147	9793	67	0.025692	66.41304	0.991239
Iowa N=1300	20400	0.04	230	1300	19561	556	0.040316	104.2174	0.187441
Kentucky	12100	0.02	137	137	1211	51	0.023913	61.81522	1.212063
Missouri	28500	0.06	322	322	16466	125	0.056324	145.5978	1.164783
Ohio	21500	0.04	243	243	22812	77	0.04249	109.837	1.426454
Alabama	12400	0.02	107	108	5279	26	0.024506	63.34783	2.436455
Arkansas									
N=1300	67800	0.13	588	1300	55691	347	0.133992	346.3696	0.998183
Louisiana	52200	0.10	452	452	40726	103	0.103162	266.6739	2.589067
Mississippi	19200	0.04	166	166	18204	38	0.037945	98.08696	2.581236
Tenn N=1000	21500	0.04	186	1000	17758	136	0.04249	109.837	0.807625
	506000	1.00	4499	7891	416947	2585	1	2585	
CENTRAL									
Montana	6500	0.03	157	1300	3915	424	0.029721	122.4508	0.288799
North Dakota	36900	0.17	890	1300	29773	503	0.168724	695.144	1.381996
South Dakota	18800	0.09	453	1300	15914	483	0.085963	354.1655	0.733262
Colorado	13600	0.06	385	1300	10472	488	0.062186	256.2048	0.52501
Kansas	19200	0.09	543	1300	18030	415	0.087791	361.701	0.871569
Nebraska	16800	0.08	475	1300	15418	541	0.076818	316.4883	0.585006
Wyoming	3400	0.02	96	1159	1159	428	0.015546	64.05121	0.149652
New Mexico	3300	0.02	48	510	510	194	0.015089	62.16735	0.32045
Oklahoma	15300	0.07	222	1300	13349	401	0.069959	288.2305	0.718779
Texas	84900	0.39	1230	1300	75593	243	0.388203	1599.396	6.581878
	218700	1.00	4499	12069	184133	4120	1	4120	

Appendix C: USA, Flyway and Sub-Flyway Weight Tables

Weights applied to each respondent for Flyway analysis (continued)

State	Estimated number of active duck hunters, 2004	State proportion relative to stratum	SUBF Proportional sample size	Adjusted for minimum sample of 100	Names available (successful duck hunters)	Number Of Respondents	FLYprop	FLYprod	FLYwgt
PACIFIC									
Alaska	4800	0.03	147	147	3811	65	0.032609	56.73913	0.87291
Arizona	3700	0.03	113	113	3016	33	0.025136	43.73641	1.325346
California	52900	0.36	1617	1616	1240	670	0.359375	625.3125	0.933302
Idaho	17100	0.12	523	523	12596	174	0.116168	202.1332	1.161685
Montana	7900	0.05	242	242	4814	79	0.053668	93.38315	1.182065
Nevada	3500	0.02	107	107	2367	46	0.023777	41.37228	0.899397
Oregon	18500	0.13	566	566	16987	190	0.125679	218.6821	1.150958
Utah	16400	0.11	501	501	11378	203	0.111413	193.8587	0.954969
Washington	22400	0.15	685	685	19074	280	0.152174	264.7826	0.945652
	147200	1.00	4500	4500	75283	1740	1	1740	
TOTAL	1044400		17997	29877	796980	10219			

Appendix C: USA, Flyway and Sub-Flyway Weight Tables

Weights applied to each respondent for Sub-Flyway analysis

State	Estimated number of active duck hunters, 2004	State proportion relative to stratum	Proportional sample size	Adjusted for minimum sample of 100	Names available (successful duck hunters)	Number of Respondents	SUBFlyprop	SUBFlyprod	SUBFlywgt
Connecticut	2900	0.08	119	119	507	51	0.07945205	58.079452	1.1388128
Maine	5700	0.16	234	234	2643	66	0.15616438	114.15616	1.7296389
Massachusetts	3100	0.08	127	127	2214	62	0.08493151	62.084932	1.0013699
New Hampshire	1900	0.05	78	100	1357	41	0.05205479	38.052055	0.9280989
New York	19500	0.53	801	713	13231	422	0.53424658	390.53425	0.9254366
Rhode Island	800	0.02	33	100	754	45	0.02191781	16.021918	0.3560426
Vermont	2600	0.07	107	107	1842	44	0.07123288	52.071233	1.1834371
	36500	1.00	1500	1500	22548	731	1	731	
Delaware	4500	0.06	92	100	3336	28	0.06164384	50.178082	1.7920744
Maryland N=1300	20600	0.28	423	1300	14197	388	0.28219178	229.70411	0.5920209
New Jersey	6400	0.09	132	132	4159	62	0.08767123	71.364384	1.1510384
Pennsylvania	23500	0.32	483	438	3160	160	0.32191781	262.0411	1.6377568
Virginia	16900	0.23	347	347	8944	145	0.23150685	188.44658	1.2996316
West Virginia	1100	0.02	23	100	686	31	0.01506849	12.265753	0.3956695
	73000	1.00	1500	2417	34482	814	1	814	
Florida	12400	0.20	295	295	12265	62	0.1968254	45.073016	0.7269841
Georgia	13200	0.21	314	314	15307	29	0.20952381	47.980952	1.6545156
North Carolina	22000	0.35	524	524	19393	51	0.34920635	79.968254	1.568005
South Carolina	15400	0.24	367	367	16622	87	0.24444444	55.977778	0.6434227
	63000	1.00	1500	1500	63587	229	1	229	
Michigan	43100	0.22	323	323	36870	125	0.2153923	185.88356	1.4870685
Minnesota	89600	0.45	672	672	94112	233	0.44777611	386.43078	1.6585012
Wisconsin N=1300	67400	0.34	505	1300	54930	505	0.33683158	290.68566	0.5756152
	200100	1.00	1500	2295	185912	863	1	863	
Illinois	37300	0.28	421	421	23534	196	0.28087349	301.09639	1.536206
Indiana	13000	0.10	147	147	9793	67	0.09789157	104.93976	1.5662651
Iowa N=1300	20400	0.15	230	1300	19561	556	0.15361446	164.6747	0.2961775
Kentucky	12100	0.09	137	137	1211	51	0.09111446	97.674699	1.9151902
Missouri	28500	0.21	322	322	16466	125	0.21460843	230.06024	1.8404819
Ohio	21500	0.16	243	243	22812	77	0.16189759	173.55422	2.2539509
	132800	1.00	1500	2570	93377	1072	1	1072	
Alabama	12400	0.07	107	108	5279	26	0.07163489	46.562681	1.7908723
Arkansas N=1300	67800	0.39	588	1300	55691	347	0.39168111	254.59272	0.7336966
Louisiana	52200	0.30	452	452	40726	103	0.30155979	196.01386	1.9030472
Mississippi	19200	0.11	166	166	18204	38	0.11091854	72.097054	1.8972909
Tenn N=1000	21500	0.12	186	1000	17758	136	0.12420566	80.73368	0.59363
	173100	1.00	1500	3026	137658	650	1		
Montana-Central	6500	0.10	157	1300	3915	424	0.10450161	147.34727	0.3475171
North Dakota	36900	0.59	890	1300	29773	503	0.59324759	836.4791	1.6629803
South Dakota	18800	0.30	453	1300	15914	483	0.3022508	426.17363	0.8823471
	62200	1.00	1500	3900	49602	1410	1	1410	
Colorado	13600	0.26	385	1300	10472	488	0.25660377	480.36226	0.9843489
Kansas	19200	0.36	543	1300	18030	415	0.36226415	678.15849	1.6341168
Nebraska	16800	0.32	475	1300	15418	541	0.31698113	593.38868	1.0968367
Wyoming	3400	0.06	96	1159	1159	428	0.06415094	120.09057	0.2805854
	53000	1.00	1500	5059	45079	1872	1	1872	

Appendix C: USA, Flyway and Sub-Flyway Weight Tables

Weights applied to each respondent for Sub-Flyway analysis (continued)

State	Estimated number of active duck hunters, 2004	State proportion relative to stratum	Proportional sample size	Adjusted for minimum sample of 100	Names available (successful duck hunters)	Number of Respondents	SUBFlyprop	SUBFlyprod	SUBFlywgt
New Mexico	3300	0.03	48	510	510	194	0.03188406	26.718841	0.137726
Oklahoma	15300	0.15	222	1300	13349	401	0.14782609	123.87826	0.3089233
Texas	84900	0.82	1230	1300	75593	243	0.82028986	687.4029	2.8288185
	103500	1.00	1500	3110	89452	838	1	838	
Alaska	4800	0.07	102	147	3811	65	0.0678925	53.499293	0.823066
Idaho	17100	0.24	363	523	12596	174	0.24186704	190.59123	1.0953519
Oregon	18500	0.26	393	566	16987	190	0.26166902	206.19519	1.0852378
Washington	22400	0.32	475	685	19074	280	0.31683168	249.66337	0.8916549
Montana-Pacific	7900	0.11	168	242	4814	79	0.11173975	88.050919	1.1145686
	70700	1.00	1500	2163	57282	788	1	788	
California	52900	1.00	1500	1616	1240	670	1	670	1
	52900	1.00	1500	1616	1240	670	1		
Utah	16400	0.69	1042	501	11378	203	0.69491525	195.9661	0.9653503
Arizona	3700	0.16	235	113	3016	33	0.15677966	44.211864	1.3397535
Nevada	3500	0.15	222	107	2367	46	0.14830508	41.822034	0.9091746
	23600	1.00	1500	721	16761	282	1	282	
TOTAL	1044400		18000	29877	796980	10219			

Appendix D: Results of NDHS for USA

		Column N %	Count	Valid N	Missing
Q1: USA: Which of the following statements best describes your pursuits in waterfowl hunting?	Ducks, perhaps geese	1%	98		
	Only ducks	9%	1028		
	Ducks and geese	84%	9093		
	Only geese	3%	274		
	Neither ducks nor geese	4%	394		
	Total			10887	0

		Column N %	Count	Valid N	Missing
Q2: How important is duck hunting to you?	Most important	14%	1375		
	One of my most important	58%	5911		
	No more important	22%	2246		
	Less important	5%	516		
	One of my least important	1%	76		
	Total			10124	95
Q3: When did you start hunting ducks?	Before 1970	29%	2911		
	1970 to 1979	20%	2045		
	1980 to 1988	16%	1619		
	1989 to 1996	16%	1629		
	1997 to 2004	19%	1979		
	Total			10184	35
Q4: Over the last five years, about how many ducks did you usually harvest in a year?	5 or less	15%	1552		
	6 to 10	22%	2214		
	11 to 20	27%	2752		
	21 to 50	25%	2534		
	>50	11%	1115		
	Total			10168	51
Q5: Over the last five years, about how many days did you usually hunt ducks in a year?	5 or less	16%	1623		
	6 to 10	27%	2759		
	11 to 20	30%	3019		
	21 to 30	16%	1677		
	More than 30	11%	1097		
	Total			10175	44
Q6: Did you hunt ducks during the 2004-2005 season?	Yes	92%	9388		
	No	8%	779		
	Total			10167	52
Q7: How many of the last 5 years have you hunted ducks?	0 years	0%	28		
	1 year	1%	81		
	2 years	3%	311		
	3 years	9%	881		
	4 years	11%	1088		
	5 years	77%	7787		
	Total			10176	43

Appendix D: Results of NDHS for USA

		Column N %	Valid N	Count	Missing
Q8: How many days per season are you duck hunting now compared to 5 years ago?	Same number	42%			
	More days	22%			
	Fewer days	31%			
	Wasn't hunting 5 yrs ago	5%			
	Total		10177	10177	42

Appendix D: Results of NDHS for USA

Q9a consolidated responses to Q9 (“In which state have you hunted ducks most over the last 5 years?”) and Q10 (“Is this state the same as indicated in your current mailing address?”). Counts below are for USA weighted data.

		Count	Column N %
Q9a: State in which you hunted ducks most over the last 5 years.	AK	47	.5%
	AL	121	1.2%
	AR	663	6.5%
	AZ	36	.4%
	CA	518	5.1%
	CO	133	1.3%
	CT	28	.3%
	DE	44	.4%
	FL	121	1.2%
	GA	129	1.3%
	IA	200	2.0%
	ID	167	1.6%
	IL	365	3.6%
	IN	127	1.2%
	KS	188	1.8%
	KY	118	1.2%
	LA	511	5.0%
	MA	30	.3%
	MD	202	2.0%
	ME	56	.5%
	MI	422	4.1%
	MN	877	8.6%
	MO	279	2.7%
	MS	188	1.8%
	MTCENT	64	.6%
	MTPAC	77	.8%
	NC	215	2.1%
	ND	361	3.5%
	NE	164	1.6%
	NH	19	.2%
	NJ	63	.6%
	NM	32	.3%
	NV	34	.3%
	NY	191	1.9%
	OH	210	2.1%
	OK	150	1.5%
	OR	181	1.8%
	PA	230	2.3%
	RI	8	.1%
	SC	151	1.5%
	SD	184	1.8%
	TN	210	2.1%
	TX	831	8.1%
	UT	160	1.6%
	VA	165	1.6%
	VT	25	.2%
	WA	219	2.1%
	WI	659	6.5%
	WV	11	.1%
	WY	33	.3%
Total	10219		

Appendix D: Results of NDHS for USA

		Column N %	Count	Valid N	Missing
Q10: Is this state the same as indicated on your current mailing address?	Yes	95%	9655		
	No	5%	460		
	Total			10115	104
Q11: Which one statement best describes how you feel about the total daily duck bag limit over the last 5 years in the state where you hunted most?	Too low	13%	1329		
	About right	72%	7229		
	Too high	8%	800		
	No opinion	6%	641		
	Total			10000	219
Q12: Which one statement best describes how you feel about the duck season length (number of days in the season) over the	Too short	35%	3480		
	About right	59%	5909		
	Too long	3%	324		
	No opinion	4%	371		
	Total			10084	135
Q13: What changes have you observed in the overall quality of your duck hunting over the last 5 years in the state where you hunted most?	Gotten much better	3%	324		
	Gotten a little better	11%	1140		
	Stayed about the same	26%	2653		
	Gotten a little worse	32%	3241		
	Gotten much worse	24%	2456		
	No opinion	3%	265		
	Total			10081	138

Appendix D: Results of NDHS for USA

Q14. Thinking about changes in hunting quality over the last 5 years in the state where you hunted most, how much better or worse do you think the following have become?

		Column N %	Count	Valid N	Missing
Q14a: Duck habitat where I hunt?	Much better	5%	489		
	Somewhat better	18%	1840		
	Neither better nor worse	43%	4267		
	Somewhat worse	23%	2316		
	Much worse	9%	940		
	Don't know	2%	174		
	Total			10026	193
Q14b: When ducks arrive in area?	Much better	1%	118		
	Somewhat better	7%	696		
	Neither better nor worse	34%	3398		
	Somewhat worse	34%	3388		
	Much worse	21%	2061		
	Don't know	3%	293		
	Total			9954	265
Q14c: Length/time ducks stay in area?	Much better	1%	111		
	Somewhat better	7%	691		
	Neither better nor worse	39%	3834		
	Somewhat worse	32%	3220		
	Much worse	17%	1727		
	Don't know	4%	369		
	Total			9952	267

Appendix D: Results of NDHS for USA

Q14. Thinking about changes in hunting quality over the last 5 years in the state where you hunted most, how much better or worse do you think the following have become?

		Column N %	Count	Valid N	Missing
Q14d: Timing of duck seasons?	Much better	1%	132		
	Somewhat better	9%	937		
	Neither better nor worse	52%	5185		
	Somewhat worse	22%	2168		
	Much worse	12%	1221		
	Don't know	3%	287		
	Total			9929	290
Q14e: Overall duck numbers?	Much better	2%	215		
	Somewhat better	15%	1482		
	Neither better nor worse	24%	2351		
	Somewhat worse	32%	3166		
	Much worse	25%	2517		
	Don't know	2%	217		
	Total			9946	273
Q14f: Ease of understanding regs?	Much better	4%	367		
	Somewhat better	14%	1375		
	Neither better nor worse	63%	6226		
	Somewhat worse	12%	1201		
	Much worse	6%	612		
	Don't know	2%	160		
	Total			9942	277
Q14g: Number of places to hunt?	Much better	2%	167		
	Somewhat better	9%	894		
	Neither better nor worse	36%	3629		
	Somewhat worse	31%	3059		
	Much worse	20%	2022		
	Don't know	2%	184		
	Total			9956	263
Q14h: Time I have to hunt ducks?	Much better	4%	414		
	Somewhat better	14%	1429		
	Neither better nor worse	47%	4734		
	Somewhat worse	24%	2392		
	Much worse	9%	914		
	Don't know	1%	101		
	Total			9982	237
Q14i: Weather patterns for duck hunting?	Much better	0%	43		
	Somewhat better	5%	473		
	Neither better nor worse	45%	4472		
	Somewhat worse	30%	3060		
	Much worse	16%	1564		
	Don't know	4%	420		
	Total			10033	186

Q15. Please indicated how much more or less of a problem the following have become over the last 5 years in the state where you hunted most. (Table follows on next page.)

Appendix D: Results of NDHS for USA

		Column N %	Count	Valid N	Missing
Q15a: Crowding at hunting areas?	Much more	20%	2028		
	Somewhat more	38%	3889		
	Neither more or less	32%	3265		
	Somewhat less	4%	454		
	Much less	1%	114		
	Don't know	4%	379		
	Total			10129	90
Q15b: Hunting pressure?	Much more	18%	1823		
	Somewhat more	41%	4116		
	Neither more or less	31%	3142		
	Somewhat less	6%	620		
	Much less	1%	116		
	Don't know	3%	292		
	Total			10109	110
Q15c: Ducks unable to find rest areas?	Much more	7%	724		
	Somewhat more	20%	1964		
	Neither more or less	53%	5339		
	Somewhat less	8%	800		
	Much less	5%	462		
	Don't know	7%	727		
	Total			10016	203
Q15d: Shifting duck migration routes?	Much more	17%	1705		
	Somewhat more	27%	2656		
	Neither more or less	38%	3828		
	Somewhat less	5%	485		
	Much less	2%	162		
	Don't know	12%	1153		
	Total			9989	230
Q15e: Interference from other hunters?	Much more	13%	1277		
	Somewhat more	33%	3302		
	Neither more or less	46%	4579		
	Somewhat less	4%	388		
	Much less	1%	149		
	Don't know	3%	307		
	Total			10001	218
Q15f: Ducks arriving after season close?	Much more	24%	2417		
	Somewhat more	32%	3174		
	Neither more or less	34%	3368		
	Somewhat less	3%	314		
	Much less	2%	157		
	Don't know	6%	618		
	Total			10049	170
Q15g: Ducks concentrating on fewer areas?	Much more	14%	1455		
	Somewhat more	35%	3517		
	Neither more or less	39%	3920		
	Somewhat less	3%	332		
	Much less	1%	126		
	Don't know	7%	739		
	Total			10089	130

Appendix D: Results of NDHS for USA

Q16. For the most recent year you hunted in the state where you hunted most, how satisfied or dissatisfied were you with:

		Column N %	Count	Valid N	Missing
Q16a: Number of ducks you saw?	Very satisfied	8%	799		
	Somewhat satisfied	23%	2314		
	Neutral	15%	1570		
	Somewhat dissatisfied	33%	3320		
	Very dissatisfied	21%	2138		
	Total			10140	79
Q16b: Number of ducks you harvested?	Very satisfied	8%	787		
	Somewhat satisfied	21%	2153		
	Neutral	21%	2160		
	Somewhat dissatisfied	32%	3212		
	Very dissatisfied	18%	1804		
	Total			10115	104
Q16c: Timing of duck season?	Very satisfied	7%	695		
	Somewhat satisfied	18%	1851		
	Neutral	37%	3745		
	Somewhat dissatisfied	27%	2670		
	Very dissatisfied	11%	1114		
	Total			10074	145
Q16d: Number of days in duck season?	Very satisfied	12%	1179		
	Somewhat satisfied	22%	2223		
	Neutral	39%	3896		
	Somewhat dissatisfied	22%	2212		
	Very dissatisfied	5%	544		
	Total			10054	165
Q16e: Number of ducks in daily limit?	Very satisfied	19%	1921		
	Somewhat satisfied	26%	2631		
	Neutral	38%	3821		
	Somewhat dissatisfied	14%	1449		
	Very dissatisfied	3%	290		
	Total			10112	107
Q16f: Your overall hunting experience?	Very satisfied	15%	1537		
	Somewhat satisfied	33%	3315		
	Neutral	20%	1988		
	Somewhat dissatisfied	24%	2452		
	Very dissatisfied	8%	814		
	Total			10104	115

Appendix D: Results of NDHS for USA

		Column N %	Count	Valid N	Missing
Q17: What is the minimum number of ducks you need to harvest in a day's hunt to feel satisfied with your harvest?	0	8%	826		
	1 duck	8%	824		
	2 ducks	16%	1585		
	3 ducks	18%	1819		
	4 ducks	18%	1814		
	5 ducks	11%	1091		
	6 ducks	9%	892		
	7 ducks	4%	372		
	More than 7 ducks	3%	349		
	No opinion	5%	553		
	Total			10125	94
Q18: What is the minimum number of ducks you need to harvest in a season to feel satisfied with your harvest?	5 ducks or less	8%	819		
	Between 6 and 10 ducks	12%	1237		
	Between 11 and 20 ducks	26%	2639		
	Between 21 and 50 ducks	30%	3030		
	More than 50 ducks	12%	1181		
	No opinion	11%	1068		
	Total			9974	245

		Column N %	Count	Valid N	Missing
Q19a: How much do you support "Closed seasons on ducks with lower population levels so the overall season can be long for more abundant ducks?"	Strongly support	39%	3978		
	Somewhat support	36%	3606		
	Unsure	14%	1370		
	Somewhat oppose	8%	812		
	Strongly oppose	4%	374		
	Total			10141	78
Q19b: How much do you support "A shorter season for all ducks to meet needs of ducks with lower population levels?"	Strongly support	8%	793		
	Somewhat support	13%	1358		
	Unsure	17%	1680		
	Somewhat oppose	32%	3236		
	Strongly oppose	30%	3069		
	Total			10136	83
Q19c: How much do you support "Shorter seasons for ducks with lower population levels within a longer season for abundant ducks?"	Strongly support	43%	4349		
	Somewhat support	37%	3784		
	Unsure	9%	963		
	Somewhat oppose	7%	728		
	Strongly oppose	3%	329		
	Total			10152	67
Q19d: How much do you support "Longer season for all ducks, with daily bag limit restrictions for ducks with lower population levels?"	Strongly support	38%	3820		
	Somewhat support	31%	3164		
	Unsure	15%	1532		
	Somewhat oppose	11%	1101		
	Strongly oppose	5%	527		
	Total			10143	76

Appendix D: Results of NDHS for USA

		Column N %	Count	Valid N	Missing
Q20: Which one of the 4 options listed in question 19 would you most prefer?	Q19A, Closed seasons on some but longer overall	20%	1978		
	Q19B, Shorter seasons to meet needs of low-pop ducks	6%	621		
	Q19C, Shorter low-pop seasons within longer season	27%	2765		
	Q19D. Longer seasons & low-pop bag restrictions	47%	4692		
	Total			10057	162
Q21: How small would the daily bag limit have to be before you would no longer hunt?	6 ducks	2%	178		
	5 ducks	3%	343		
	4 ducks	12%	1170		
	3 ducks	20%	1990		
	2 ducks	20%	2028		
	1 duck	7%	738		
	I'll hunt with any limit	36%	3652		
	Total			10099	120
Q22: What do you think the daily bag limit for hen mallards should be?	0	7%	681		
	1 hen	45%	4515		
	2 hens	35%	3563		
	3 or more hens	5%	494		
	No opinion	9%	876		
	Total			10128	91
Q23: Would you be willing to accept an overall smaller bag limit to have fewer species and sex bag limit restrictions?	Yes	33%	3361		
	No	43%	4387		
	No opinion	24%	2389		
	Total			10137	82
Q24: In the past, changes in season lengths were necessary to respond to changing duck populations. In the event of future changes, which would you prefer?	Most seasons either max or min length	18%	1853		
	Most seasons intermediate length	30%	3040		
	I'm not sure	51%	5138		
	Total			10031	188

Appendix D: Results of NDHS for USA

		Column N %	Count	Valid N	Missing
Q25: How does changing bag limits and season lengths from year to year affect your duck hunting satisfaction?	Increases satisfaction	5%	539		
	No effect	68%	6718		
	Decreases satisfaction	27%	2688		
	Total			9945	274
Q26: For the most recent year you hunted ducks, how often did you use a motorized spinning-wing decoy?	Always	13%	1250		
	Sometimes	40%	3960		
	Never	47%	4695		
	Total			9906	313
q27: Which of the following best describes your viewpoint about motorized spinning-wing decoys?	Should be allowed	53%	5232		
	Should not be allowed	23%	2330		
	No opinion	24%	2382		
	Total			9943	276

Q28. How much trust do you put in each of the following to represent interests of duck hunters like you? (Table follows on next page.)

Appendix D: Results of NDHS for USA

		Column N %	Count	Valid N	Missing
Q28a: Waterfowl biologists?	High	41%	4120		
	Medium	42%	4202		
	Low	10%	1021		
	None	3%	290		
	Don't know	4%	404		
	Total			10038	181
Q28b: Commercial/Business interests?	High	2%	223		
	Medium	14%	1414		
	Low	43%	4288		
	None	35%	3534		
	Don't know	5%	536		
	Total			9995	224
Q28c: Legislators?	High	2%	155		
	Medium	10%	976		
	Low	43%	4317		
	None	41%	4112		
	Don't know	4%	412		
	Total			9972	247
Q28d: Experienced Duck Hunters?	High	58%	5789		
	Medium	35%	3462		
	Low	5%	492		
	None	1%	74		
	Don't know	2%	183		
	Total			10001	218
Q28e: All duck Hunters?	High	13%	1332		
	Medium	51%	5114		
	Low	30%	3003		
	None	3%	291		
	Don't know	3%	277		
	Total			10016	203
Q28f: General Public?	High	1%	121		
	Medium	8%	808		
	Low	42%	4169		
	None	45%	4547		
	Don't know	4%	377		
	Total			10021	198
Q28g: Commercial Duck Clubs?	High	11%	1071		
	Medium	32%	3188		
	Low	34%	3385		
	None	19%	1898		
	Don't know	5%	456		
	Total			9997	222

Table continues on following page

Appendix D: Results of NDHS for USA

		Column N %	Count	Valid N	Missing
Q28h: Conservation Groups?	High	51%	5136		
	Medium	32%	3204		
	Low	10%	977		
	None	5%	501		
	Don't know	3%	261		
	Total			10079	140
Q28i: Flyway Councils?	High	25%	2534		
	Medium	43%	4286		
	Low	15%	1467		
	None	4%	396		
	Don't know	13%	1316		
	Total			10001	218
Q28j: Outdoor writers/TV personalities?	High	6%	604		
	Medium	33%	3296		
	Low	38%	3792		
	None	18%	1810		
	Don't know	5%	518		
	Total			10019	200
Q28k: Duck hunting guides?	High	17%	1671		
	Medium	38%	3872		
	Low	28%	2835		
	None	11%	1133		
	Don't know	6%	555		
	Total			10067	152
q28l: Wildlife Agencies?	High	25%	2522		
	Medium	47%	4743		
	Low	20%	1978		
	None	5%	475		
	Don't know	3%	346		
	Total			10063	156

		Column N %	Count	Valid N	Missing
Q29: Do you access the internet to look up duck hunting information?	Frequently	20%	1993		
	Once in a while	49%	4962		
	Not at all	31%	3187		
	Total			10142	77
Q30: About how much do you spend on duck hunting each year?	\$250 or less	35%	3514		
	\$251-\$1000	45%	4565		
	\$1001-\$5000	17%	1755		
	Over \$5000	3%	263		
	Total			10097	122
q31: Please indicate your sex:	Male	99%	9929		
	Female	1%	148		
	Total			10077	142
Q32: Please indicate your age:	24 or under	12%	1225		
	25-44	41%	4144		
	45-64	40%	4058		
	65 or over	7%	693		
	Total			10120	99

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

		Q2: How important is duck hunting to you?					Total
		Most important	One of my most important	No more important	Less important	One of my least important	
Q5: Over last 5 yrs, days usually hunted ducks per year?	5 or less	1%	31%	46%	18%	3%	1603
	6 to 10	4%	57%	33%	5%	1%	2727
	11 to 20	12%	73%	13%	2%	0%	3003
	21 to 30	26%	64%	9%	1%	0%	1662
	More than 30	40%	54%	5%	1%	0%	1087
	Total	14%	58%	22%	5%	1%	10082
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	11%	63%	21%	3%	1%	1323
	About right	14%	59%	22%	5%	0%	7156
	Too high	23%	60%	14%	3%	0%	792
	No opinion	7%	38%	38%	12%	4%	637
	Total	14%	58%	22%	5%	1%	9909
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	17%	60%	20%	3%	0%	3449
	About right	13%	59%	22%	5%	1%	5863
	Too long	12%	55%	25%	8%	0%	311
	No opinion	3%	33%	38%	19%	8%	368
	Total	14%	58%	22%	5%	1%	9991
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	5 ducks or less	7%	47%	34%	10%	2%	807
	Between 6 and 10 ducks	4%	49%	36%	9%	2%	1224
	Between 11 and 20 ducks	8%	59%	27%	6%	0%	2618
	Between 21 and 50 ducks	17%	66%	15%	2%	0%	3006
	More than 50 ducks	33%	59%	6%	1%	0%	1167
	No opinion	10%	57%	25%	6%	1%	1058
	Total	14%	59%	22%	5%	1%	9882
q27: Your view of motorized spinning-wing decoys?	Be allowed	13%	60%	21%	4%	0%	5190
	Not be allowed	14%	60%	20%	5%	1%	2311
	No opinion	13%	52%	26%	7%	1%	2353
	Total	14%	58%	22%	5%	1%	9854
Q29: Do you access the internet to look up duck hunting information?	Frequently	27%	63%	8%	2%	0%	1976
	Once in a while	12%	60%	24%	4%	0%	4933
	Not at all	8%	53%	29%	9%	2%	3141
	Total	14%	58%	22%	5%	1%	10049
Q30: \$\$ you spend on duck hunting each year?	\$250 or less	4%	49%	34%	11%	2%	3475
	\$251-\$1000	13%	65%	19%	3%	0%	4536
	\$1001-\$5000	29%	61%	9%	1%	0%	1737
	Over \$5000	45%	47%	7%	1%	0%	261
	Total	14%	58%	22%	5%	1%	10009
Q32: Your age:	24 or under	19%	59%	18%	4%	0%	1221
	25-44	14%	58%	22%	5%	1%	4116
	45-64	12%	58%	23%	6%	1%	4012
	65 or over	11%	57%	27%	4%	1%	680
	Total	14%	58%	22%	5%	1%	10029

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

		Q3: When did you start hunting ducks?					
		Before 1970	1970 to 1979	1980 to 1988	1989 to 1996	1997 to 2004	Total
Q5: Over last 5 yrs, do you usually hunt ducks per year?	5 or less	30%	24%	13%	11%	23%	1622
	6 to 10	27%	20%	15%	15%	22%	2756
	11 to 20	27%	20%	17%	17%	18%	3009
	21 to 30	29%	17%	18%	19%	17%	1674
	More than 30	33%	18%	16%	17%	17%	1097
	Total	29%	20%	16%	16%	19%	10157
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	23%	20%	17%	16%	24%	1326
	About right	29%	20%	16%	16%	19%	7214
	Too high	38%	24%	17%	12%	8%	800
	No opinion	16%	17%	17%	17%	33%	641
	Total	28%	20%	16%	16%	19%	9981
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	23%	18%	16%	19%	24%	3467
	About right	32%	21%	16%	14%	17%	5903
	Too long	41%	23%	15%	13%	7%	324
	No opinion	21%	15%	13%	17%	34%	370
	Total	28%	20%	16%	16%	20%	10065
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	5 ducks or less	27%	19%	14%	12%	28%	819
	Between 6 and 10 ducks	27%	24%	12%	16%	21%	1237
	Between 11 and 20 ducks	30%	19%	15%	16%	20%	2636
	Between 21 and 50 ducks	29%	20%	17%	16%	19%	3019
	More than 50 ducks	31%	21%	19%	17%	13%	1180
	No opinion	25%	20%	19%	17%	19%	1066
	Total	29%	20%	16%	16%	19%	9958
Q27: Your view of motorized spinning-wing decoys?	Be allowed	25%	19%	17%	17%	22%	5215
	Not be allowed	37%	24%	14%	13%	11%	2322
	No opinion	27%	18%	16%	17%	21%	2374
	Total	28%	20%	16%	16%	19%	9912
Q29: Do you access the internet to look up duck hunting information?	Frequently	20%	19%	18%	21%	22%	1990
	Once in a while	24%	20%	18%	16%	21%	4940
	Not at all	41%	20%	11%	13%	15%	3178
	Total	29%	20%	16%	16%	19%	10108
Q30: \$\$ you spend on duck hunting each year?	\$250 or less	26%	19%	14%	16%	26%	3506
	\$251-\$1000	28%	20%	17%	16%	19%	4545
	\$1001-\$5000	33%	22%	18%	17%	10%	1748
	Over \$5000	43%	25%	15%	9%	8%	263
	Total	29%	20%	16%	16%	19%	10063
Q32: Your age:	24 or under	0%	0%	4%	29%	67%	1225
	25-44	2%	23%	30%	24%	21%	4129
	45-64	54%	27%	8%	6%	6%	4043
	65 or over	92%	4%	2%	1%	1%	689
	Total	29%	20%	16%	16%	19%	10086

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

		Q4: Over the last five years, about how many ducks did you usually harvest in a year?					
		5 or less	6 to10	11 to 20	21 to 50	>50	Total
Q5: Over last 5 yrs, days usually hunted ducks per year?	5 or less	54%	35%	10%	1%	0%	1617
	6 to 10	16%	38%	37%	8%	1%	2752
	11 to 20	6%	15%	37%	36%	6%	3010
	21 to 30	2%	7%	21%	51%	19%	1674
	More than 30	1%	4%	10%	31%	54%	1090
	Total	15%	22%	27%	25%	11%	10143
Q11:Statement which describes your feeling about duck bag over last 5 yrs?	Too low	14%	23%	27%	27%	10%	1323
	About right	14%	22%	28%	25%	11%	7207
	Too high	10%	17%	25%	32%	17%	797
	No opinion	36%	28%	19%	13%	4%	640
	Total	15%	22%	27%	25%	11%	9966
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	15%	22%	29%	24%	10%	3468
	About right	14%	22%	27%	26%	11%	5888
	Too long	16%	16%	21%	23%	25%	324
	No opinion	42%	26%	18%	11%	3%	370
	Total	15%	22%	27%	25%	11%	10050
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	5 ducks or less	45%	26%	18%	9%	2%	817
	6-10 ducks	34%	40%	21%	4%	1%	1236
	11-20 ducks	14%	33%	40%	12%	1%	2629
	21-50 ducks	5%	12%	28%	47%	8%	3023
	> 50 ducks	2%	3%	9%	32%	54%	1176
	No opinion	17%	19%	25%	25%	15%	1059
	Total	15%	22%	27%	25%	11%	9941
q27: Your view of motorized spinning-wing decoys?	Be allowed	13%	21%	29%	26%	11%	5214
	Not be allowed	15%	20%	25%	27%	14%	2314
	No opinion	21%	25%	26%	20%	8%	2367
	Total	15%	22%	27%	25%	11%	9894
Q29: Do you access the internet to look up duck hunting information?	Frequently	8%	16%	28%	30%	18%	1988
	Once in a while	15%	23%	27%	25%	11%	4931
	Not at all	21%	24%	27%	21%	7%	3173
	Total	15%	22%	27%	25%	11%	10093
Q30: \$\$ you spend on duck hunting each year?	\$250 or less	30%	31%	26%	11%	2%	3500
	\$251-\$1000	9%	21%	31%	29%	10%	4539
	\$1001-\$5000	4%	9%	22%	39%	26%	1752
	Over \$5000	5%	3%	14%	32%	47%	260
	Total	15%	22%	27%	25%	11%	10050
Q32: Your age:	24 or under	16%	22%	25%	25%	11%	1224
	25-44	12%	21%	29%	26%	12%	4129
	45-64	17%	23%	26%	24%	10%	4031
	65 or over	19%	21%	26%	25%	9%	687
	Total	15%	22%	27%	25%	11%	10071

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

		Q5: Over last 5 yrs, days usually hunted ducks per year?					
		5 or less	6 to 10	11 to 20	21 to 30	More than 30	Total
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	14%	26%	30%	16%	14%	1319
	About right	15%	28%	30%	17%	10%	7218
	Too high	10%	22%	33%	18%	17%	797
	No opinion	32%	28%	20%	12%	7%	640
	Total	16%	27%	30%	16%	11%	9973
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	12%	27%	31%	19%	11%	3465
	About right	17%	28%	29%	16%	10%	5897
	Too long	14%	22%	32%	14%	17%	324
	No opinion	41%	28%	18%	6%	7%	370
	Total	16%	27%	30%	16%	11%	10057
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	5 ducks or less	36%	31%	21%	7%	5%	817
	6-10 ducks	37%	39%	16%	5%	3%	1235
	11-20 ducks	17%	40%	30%	10%	4%	2632
	21-50 ducks	5%	19%	41%	25%	10%	3020
	> 50 ducks	2%	5%	22%	31%	39%	1178
	No opinion	18%	25%	29%	15%	14%	1067
	Total	16%	27%	30%	16%	11%	9949
q27: Your view of motorized spinning-wing decoys?	Be allowed	13%	27%	32%	17%	11%	5211
	Not be allowed	17%	25%	26%	19%	13%	2319
	No opinion	21%	29%	28%	13%	8%	2373
	Total	16%	27%	30%	17%	11%	9902
Q29: Do you access the internet to look up duck hunting information?	Frequently	7%	22%	32%	23%	16%	1986
	Once in a while	16%	27%	31%	16%	10%	4935
	Not at all	22%	30%	27%	13%	8%	3179
	Total	16%	27%	30%	16%	11%	10100
Q30: \$\$ you spend on duck hunting each year	\$250 or less	30%	36%	22%	9%	3%	3507
	\$251-\$1000	10%	26%	35%	19%	10%	4540
	\$1001-\$5000	4%	15%	34%	25%	22%	1747
	Over \$5000	4%	8%	24%	22%	42%	263
	Total	16%	27%	30%	16%	11%	10056
Q32: Your age:	24 or under	13%	24%	27%	21%	16%	1217
	25-44	14%	27%	32%	17%	10%	4131
	45-64	19%	27%	29%	15%	10%	4045
	65 or over	17%	30%	29%	13%	12%	686
	Total	16%	27%	30%	16%	11%	10079

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

		Q6: Did you hunt ducks during the 2004-2005 season?		
		Yes	No	Total
Q5: Over last 5 yrs, days usually hunted ducks per year?	5 or less	78%	22%	1622
	6 to 10	92%	8%	2750
	11 to 20	96%	4%	3002
	21 to 30	97%	3%	1673
	More than 30	98%	2%	1093
	Total	92%	8%	10140
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	90%	10%	1324
	About right	94%	6%	7211
	Too high	93%	7%	792
	No opinion	80%	20%	636
	Total	92%	8%	9963
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	92%	8%	3472
	About right	93%	7%	5886
	Too long	92%	8%	320
	No opinion	76%	24%	369
	Total	92%	8%	10047
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	5 ducks or less	87%	13%	814
	6-10 ducks	90%	10%	1234
	11-20 ducks	92%	8%	2625
	21-50 ducks	94%	6%	3023
	> 50 ducks	97%	3%	1178
	No opinion	89%	11%	1065
	Total	92%	8%	9938
q27: Your view of motorized spinning-wing decoys?	Be allowed	94%	6%	5211
	Not be allowed	91%	9%	2315
	No opinion	89%	11%	2370
	Total	92%	8%	9896
Q29: Do you access the internet to look up duck hunting information?	Frequently	97%	3%	1989
	Once in a while	92%	8%	4932
	Not at all	89%	11%	3171
	Total	92%	8%	10091
Q30: \$\$ you spend on duck hunting each year?	\$250 or less	87%	13%	3503
	\$251-\$1000	94%	6%	4535
	\$1001-\$5000	98%	2%	1745
	Over \$5000	99%	1%	263
	Total	92%	8%	10047
Q32: Your age:	24 or under	93%	7%	1224
	25-44	93%	7%	4128
	45-64	92%	8%	4034
	65 or over	89%	11%	683
	Total	92%	8%	10069

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

		Q8: How many days per season are you duck hunting now compared to 5 years ago?				
		Same number	More days	Fewer days	Wasn't hunting 5 yrs ago	Total
Q5: Over last 5 yrs, days usually hunted ducks per year?	5 or less	40%	11%	40%	9%	1614
	6 to 10	38%	20%	36%	6%	2754
	11 to 20	42%	24%	30%	4%	3012
	21 to 30	44%	27%	26%	3%	1674
	More than 30	51%	30%	17%	3%	1097
	Total	42%	22%	31%	5%	10150
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	43%	26%	26%	5%	1329
	About right	43%	22%	30%	5%	7214
	Too high	41%	15%	42%	1%	797
	No opinion	32%	14%	38%	16%	638
	Total	42%	22%	31%	5%	9977
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	40%	26%	29%	6%	3470
	About right	44%	21%	31%	4%	5899
	Too long	42%	13%	41%	4%	323
	No opinion	36%	12%	32%	20%	368
	Total	42%	22%	31%	5%	10061
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	5 ducks or less	44%	18%	31%	8%	814
	6-10 ducks	45%	19%	30%	6%	1232
	11-20 ducks	40%	19%	34%	6%	2631
	21-50 ducks	41%	26%	29%	4%	3027
	> 50 ducks	46%	26%	26%	2%	1179
	No opinion	41%	17%	35%	7%	1067
	Total	42%	22%	31%	5%	9949
q27: Your view of motorized spinning-wing decoys?	Be allowed	41%	25%	29%	6%	5219
	Not be allowed	44%	17%	37%	3%	2318
	No opinion	42%	21%	31%	6%	2370
	Total	42%	22%	31%	5%	9908
Q29: Do you access the internet to look up duck hunting information?	Frequently	40%	32%	24%	5%	1990
	Once in a while	41%	21%	32%	6%	4934
	Not at all	45%	16%	34%	5%	3180
	Total	42%	22%	31%	5%	10104
Q30: \$\$ you spend on duck hunting each year?	\$250 or less	41%	16%	34%	9%	3494
	\$251-\$1000	41%	24%	31%	4%	4549
	\$1001-\$5000	45%	27%	26%	2%	1752
	Over \$5000	58%	23%	18%	0%	261
	Total	42%	22%	31%	5%	10057
Q32: Your age:	24 or under	29%	38%	16%	17%	1219
	25-44	40%	22%	32%	5%	4133
	45-64	47%	18%	33%	2%	4038
	65 or over	50%	12%	37%	1%	689
	Total	42%	22%	31%	5%	10079

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

		Q11: Which one statement best describes how you feel about the total daily duck bag limit over the last 5 years in the state where you hunted most?				
		Too low	About right	Too high	No opinion	Total
Q5: Over the last five years, about how many days did you usually hunt ducks in a year?	5 or less	12%	70%	5%	13%	1576
	6 to 10	13%	74%	6%	7%	2718
	11 to 20	13%	74%	9%	4%	2963
	21 to 30	13%	74%	9%	5%	1643
	>30	17%	66%	12%	4%	1073
	Total	13%	72%	8%	6%	9973
Q12: Which one statement best describes how you feel about the duck season length (number of days in the season) over the last 5 years in the state where you hunted most?	Too short	24%	67%	3%	6%	3442
	About right	8%	80%	9%	4%	5848
	Too long	2%	39%	54%	5%	320
	No opinion	5%	34%	4%	57%	368
	Total	13%	72%	8%	6%	9978
Q18: What is the minimum number of ducks you need to harvest in a season to feel satisfied with your harvest?	5 ducks or less	4%	78%	7%	10%	802
	Between 6 and 10 ducks	9%	75%	7%	9%	1204
	Between 11 and 20 ducks	11%	75%	8%	6%	2582
	Between 21 and 50 ducks	18%	70%	8%	4%	2994
	More than 50 ducks	21%	68%	9%	3%	1154
	No opinion	11%	68%	7%	14%	1049
	Total	13%	72%	8%	6%	9785
Q27: Which of the following best describes your viewpoint about motorized spinning-wing decoys?	Be allowed	17%	74%	5%	5%	5122
	Not be allowed	7%	71%	17%	5%	2281
	No opinion	11%	71%	7%	12%	2335
	Total	13%	72%	8%	6%	9738
Q29: Do you access the internet to look up duck hunting information?	Frequently	13%	72%	11%	4%	1962
	Once in a while	13%	73%	8%	6%	4856
	Not at all	13%	72%	7%	8%	3108
	Total	13%	72%	8%	6%	9927
Q30: About how much do you spend on duck hunting each year?	\$250 or less	12%	73%	5%	10%	3433
	\$251-\$1000	14%	73%	8%	5%	4468
	\$1001-\$5000	13%	73%	12%	2%	1728
	Over \$5000	17%	65%	14%	4%	253
	Total	13%	72%	8%	6%	9882
Q32: Please indicate your age:	24 or under	17%	70%	4%	10%	1199
	25-44	14%	72%	7%	7%	4080
	45-64	12%	73%	10%	5%	3966
	65 or over	10%	75%	11%	5%	658
	Total	13%	72%	8%	6%	9904

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

		Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?				
		Too short	About right	Too long	No opinion	Total
Q5: Over last 5 yrs, days usually hunted ducks per year?	5 or less	25%	63%	3%	9%	1597
	6 to 10	34%	60%	3%	4%	2742
	11 to 20	36%	58%	4%	2%	2980
	21 to 30	40%	56%	3%	1%	1651
	More than 30	36%	56%	5%	2%	1087
	Total	34%	59%	3%	4%	10057
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	62%	36%	0%	2%	1328
	About right	32%	64%	2%	2%	7213
	Too high	15%	62%	21%	2%	800
	No opinion	30%	35%	3%	33%	637
	Total	34%	59%	3%	4%	9978
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	5 ducks or less	24%	64%	2%	10%	811
	6-10 ducks	27%	65%	4%	5%	1219
	11-20 ducks	33%	61%	3%	3%	2602
	21-50 ducks	41%	55%	3%	1%	2999
	> 50 ducks	37%	57%	5%	1%	1174
	No opinion	31%	54%	5%	10%	1057
	Total	34%	59%	3%	4%	9863
q27: Your view of motorized spinning-wing decoys?	Be allowed	41%	55%	2%	2%	5167
	Not be allowed	23%	67%	7%	3%	2301
	No opinion	33%	57%	3%	7%	2351
	Total	35%	58%	3%	4%	9819
Q29: Do you access the internet to look up duck hunting information?	Frequently	42%	53%	3%	1%	1974
	Once in a while	35%	59%	3%	3%	4894
	Not at all	30%	61%	4%	6%	3140
	Total	35%	59%	3%	4%	10009
Q30: \$\$ you spend on duck hunting each year?	\$250 or less	31%	60%	2%	7%	3467
	\$251-\$1000	36%	59%	3%	2%	4501
	\$1001-\$5000	38%	56%	5%	1%	1742
	Over \$5000	38%	55%	7%	0%	255
	Total	35%	59%	3%	4%	9964
Q32: Your age:	24 or under	46%	47%	1%	6%	1211
	25-44	37%	57%	3%	3%	4093
	45-64	31%	62%	4%	3%	4010
	65 or over	21%	70%	4%	5%	672
	Total	35%	59%	3%	4%	9986

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

		Q3: What changes have you observed in the overall quality of your duck hunting over last 5 years in the state where you hunted most?					
		Gotten much better	Gotten a little better	Stayed about the same	Gotten a little worse	Gotten much worse	Total
Q5: Over last 5 yrs, days usually hunted ducks per year?	5 or less	2%	11%	34%	34%	19%	1466
	6 to 10	3%	12%	31%	32%	23%	2674
	11 to 20	3%	12%	24%	34%	26%	2933
	21 to 30	4%	12%	22%	32%	30%	1644
	More than 30	5%	11%	24%	33%	28%	1074
	Total	3%	12%	27%	33%	25%	9792
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	6%	13%	26%	32%	23%	1301
	About right	3%	12%	28%	34%	22%	7091
	Too high	1%	4%	15%	30%	50%	795
	No opinion	4%	10%	33%	26%	27%	523
	Total	3%	12%	27%	33%	25%	9710
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	4%	13%	25%	33%	25%	3410
	About right	3%	11%	28%	34%	23%	5789
	Too long	0%	2%	15%	22%	60%	319
	No opinion	2%	13%	34%	30%	20%	274
	Total	3%	12%	27%	33%	25%	9792
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	5 ducks or less	4%	17%	37%	28%	14%	755
	6-10 ducks	3%	13%	31%	35%	17%	1187
	11-20 ducks	3%	11%	27%	36%	23%	2539
	21-50 ducks	3%	11%	24%	32%	29%	2963
	> 50 ducks	4%	8%	20%	30%	37%	1160
	No opinion	3%	12%	31%	32%	22%	998
	Total	3%	12%	27%	33%	25%	9602
Q27: Your view of motorized spinning-wing decoys?	Be allowed	4%	14%	28%	32%	23%	5048
	Not be allowed	2%	7%	22%	35%	34%	2274
	No opinion	3%	12%	31%	32%	22%	2244
	Total	3%	12%	27%	33%	25%	9567
Q29: Do you access the internet to look up duck hunting information?	Frequently	3%	13%	26%	33%	25%	1942
	Once in a while	3%	12%	26%	34%	24%	4771
	Not at all	3%	10%	29%	32%	26%	3037
	Total	3%	12%	27%	33%	25%	9751
Q30: \$\$ you spend on duck hunting each year	\$250 or less	3%	12%	33%	32%	20%	3305
	\$251-\$1000	3%	12%	25%	34%	25%	4425
	\$1001-\$5000	3%	9%	22%	31%	34%	1716
	Over \$5000	5%	10%	25%	33%	26%	259
	Total	3%	12%	27%	33%	25%	9706
Q32: Your age:	24 or under	9%	20%	26%	32%	13%	1138
	25-44	3%	11%	28%	34%	24%	3998
	45-64	2%	10%	26%	32%	29%	3938
	65 or over	2%	10%	25%	33%	30%	657
	Total	3%	12%	27%	33%	25%	9731

Appendix E: Results of NDHS by Selected Classification/Background Variables: Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

Q14. Thinking about changes in hunting quality over the last 5 years in the state were you hunted most, how much better or worse do you think the following have become? (“Don’t Know” Removed from Q14a-Q14i for purposes of this analysis—see USA analysis above for absolute and relative frequencies of those responding “Don’t Know.”)

		Q14a: Duck habitat where I hunt?					
		Much better	Somewhat better	Neither better nor worse	Somewhat worse	Much worse	Total
Q5: Over last 5 yrs, do you usually hunt ducks per year?	5 or less	3%	17%	45%	24%	10%	1521
	6 to 10	4%	16%	48%	23%	9%	2666
	11 to 20	5%	19%	43%	24%	8%	2925
	21 to 30	6%	22%	37%	23%	12%	1644
	More than 30	9%	20%	38%	23%	11%	1072
	Total	5%	19%	43%	24%	10%	9829
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	7%	21%	39%	24%	10%	1282
	About right	5%	19%	45%	23%	9%	7024
	Too high	5%	14%	33%	29%	19%	789
	No opinion	6%	14%	50%	22%	8%	562
	Total	5%	19%	43%	23%	9%	9657
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	5%	20%	41%	24%	10%	3378
	About right	5%	18%	44%	23%	9%	5738
	Too long	5%	24%	38%	23%	10%	316
	No opinion	3%	13%	55%	25%	5%	308
	Total	5%	19%	43%	23%	10%	9738
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	5 ducks or less	4%	18%	52%	19%	7%	771
	6-10 ducks	4%	16%	46%	27%	7%	1204
	11-20 ducks	3%	17%	44%	24%	11%	2555
	21-50 ducks	5%	19%	41%	25%	9%	2951
	> 50 ducks	8%	21%	41%	18%	12%	1143
	No opinion	6%	20%	43%	23%	8%	1016
	Total	5%	19%	44%	24%	9%	9639
q27: Your view of motorized spinning-wing decoys	Be allowed	5%	20%	45%	22%	8%	5059
	Not be allowed	4%	17%	37%	28%	13%	2263
	No opinion	5%	17%	47%	22%	9%	2281
	Total	5%	19%	43%	24%	10%	9602
Q29: Do you access the internet to look up duck hunting information?	Frequently	6%	23%	37%	24%	10%	1932
	Once in a while	4%	19%	46%	23%	8%	4794
	Not at all	5%	16%	44%	24%	11%	3062
	Total	5%	19%	43%	23%	10%	9788
Q30: \$\$ you spend on duck hunting each year	\$250 or less	3%	17%	48%	23%	9%	3350
	\$251-\$1000	5%	19%	43%	24%	10%	4418
	\$1001-\$5000	6%	21%	38%	25%	10%	1722
	Over \$5000	17%	24%	26%	19%	14%	254
	Total	5%	19%	43%	23%	10%	9744
Q32: Your age:	24 or under	6%	22%	43%	22%	7%	1158
	25-44	4%	19%	46%	23%	8%	4017
	45-64	5%	18%	42%	24%	11%	3931
	65 or over	5%	16%	37%	27%	14%	663
	Total	5%	19%	43%	23%	10%	9769

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

**Q14. Thinking about changes in hunting quality over the last 5 years in the state were you hunted most, how much better or worse do you think the following have become?
("Don't Know" Removed from Q14a-Q14i for purposes of this analysis—see USA analysis above for absolute and relative frequencies of those responding "Don't Know.")**

		Q14b: When ducks arrive in area?					
		Much better	Somewhat better	Neither better nor worse	Somewhat worse	Much worse	Total
Q5: Over last 5 yrs, do you usually hunt ducks per year?	5 or less	0%	5%	42%	34%	18%	1471
	6 to 10	1%	7%	37%	36%	19%	2594
	11 to 20	1%	8%	33%	35%	23%	2883
	21 to 30	2%	8%	30%	36%	25%	1624
	More than 30	2%	10%	31%	34%	23%	1064
	Total	1%	7%	35%	35%	21%	9636
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	2%	8%	33%	34%	22%	1259
	About right	1%	8%	36%	36%	20%	6898
	Too high	0%	2%	28%	35%	35%	778
	No opinion	3%	8%	37%	32%	21%	539
	Total	1%	7%	35%	35%	21%	9473
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	2%	7%	29%	35%	26%	3308
	About right	1%	7%	39%	35%	18%	5647
	Too long	0%	2%	21%	36%	42%	312
	No opinion	1%	10%	43%	33%	13%	281
	Total	1%	7%	35%	35%	21%	9548
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	5 ducks or less	1%	10%	47%	29%	12%	737
	6-10 ducks	1%	8%	40%	36%	15%	1163
	11-20 ducks	1%	7%	37%	36%	19%	2502
	21-50 ducks	1%	7%	31%	35%	26%	2935
	> 50 ducks	2%	7%	27%	36%	28%	1127
	No opinion	1%	6%	37%	34%	22%	992
	Total	1%	7%	35%	35%	22%	9456
q27: Your view of motorized spinning-wing decoys?	Be allowed	1%	8%	35%	35%	21%	4972
	Not be allowed	1%	4%	32%	36%	27%	2229
	No opinion	2%	8%	39%	33%	18%	2224
	Total	1%	7%	35%	35%	22%	9425
Q29: Do you access the internet to look up duck hunting information?	Frequently	2%	7%	32%	34%	25%	1912
	Once in a while	1%	8%	35%	36%	20%	4718
	Not at all	1%	7%	38%	34%	20%	2967
	Total	1%	7%	35%	35%	21%	9597
Q30: \$\$ you spend on duck hunting each year	\$250 or less	1%	8%	42%	33%	16%	3260
	\$251-\$1000	1%	7%	33%	37%	22%	4338
	\$1001-\$5000	1%	6%	28%	34%	31%	1707
	Over \$5000	2%	6%	33%	39%	20%	246
	Total	1%	7%	35%	35%	21%	9551
Q32: Your age:	24 or under	2%	15%	40%	31%	12%	1134
	25-44	1%	7%	34%	37%	21%	3969
	45-64	1%	5%	35%	35%	24%	3830
	65 or over	1%	6%	36%	34%	23%	642
	Total	1%	7%	35%	35%	21%	9575

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

**Q14. Thinking about changes in hunting quality over the last 5 years in the state were you hunted most, how much better or worse do you think the following have become?
("Don't Know" Removed from Q14a-Q14i for purposes of this analysis—see USA analysis above for absolute and relative frequencies of those responding "Don't Know.")**

		Q14c: Length/time ducks stay in area?					
		Much better	Somewhat better	Neither better nor worse	Somewhat worse	Much worse	Total
Q5: Over last 5 yrs, do you usually hunt ducks per year?	5 or less	1%	5%	47%	35%	12%	1420
	6 to 10	1%	7%	43%	33%	15%	2588
	11 to 20	1%	7%	38%	33%	20%	2876
	21 to 30	1%	8%	34%	35%	22%	1621
	More than 30	2%	9%	36%	32%	22%	1054
	Total	1%	7%	40%	34%	18%	9560
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	2%	8%	39%	31%	20%	1262
	About right	1%	8%	41%	34%	16%	6842
	Too high	0%	2%	30%	36%	32%	772
	No opinion	1%	8%	42%	29%	20%	516
	Total	1%	7%	40%	34%	18%	9392
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	1%	8%	35%	35%	21%	3303
	About right	1%	7%	44%	33%	15%	5588
	Too long	0%	2%	23%	37%	37%	309
	No opinion	1%	7%	45%	32%	15%	273
	Total	1%	7%	40%	34%	18%	9473
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	5 ducks or less	2%	10%	49%	31%	9%	727
	6-10 ducks	1%	7%	48%	32%	12%	1154
	11-20 ducks	1%	7%	41%	34%	16%	2484
	21-50 ducks	1%	7%	37%	35%	21%	2908
	> 50 ducks	2%	7%	28%	36%	28%	1135
	No opinion	1%	6%	44%	31%	17%	982
	Total	1%	7%	40%	34%	18%	9390
Q27: Your view of motorized spinning-wing decoys?	Be allowed	1%	7%	41%	33%	18%	4942
	Not be allowed	1%	6%	35%	35%	24%	2213
	No opinion	1%	8%	43%	34%	14%	2188
	Total	1%	7%	40%	34%	18%	9344
Q29: Do you access the internet to look up duck hunting information?	Frequently	1%	8%	38%	33%	20%	1898
	Once in a while	1%	7%	40%	34%	17%	4676
	Not at all	1%	6%	41%	33%	18%	2944
	Total	1%	7%	40%	34%	18%	9518
Q30: \$\$ you spend on duck hunting each year	\$250 or less	1%	7%	47%	31%	13%	3213
	\$251-\$1000	1%	7%	38%	35%	19%	4325
	\$1001-\$5000	1%	6%	32%	36%	25%	1691
	Over \$5000	4%	8%	39%	28%	21%	250
	Total	1%	7%	40%	34%	18%	9480
Q32: Your age:	24 or under	3%	13%	43%	30%	10%	1124
	25-44	1%	7%	40%	35%	17%	3942
	45-64	1%	6%	40%	32%	20%	3786
	65 or over	1%	5%	38%	36%	20%	644
	Total	1%	7%	40%	34%	18%	9496

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

**Q14. Thinking about changes in hunting quality over the last 5 years in the state were you hunted most, how much better or worse do you think the following have become?
("Don't Know" Removed from Q14a-Q14i for purposes of this analysis—see USA analysis above for absolute and relative frequencies of those responding "Don't Know.")**

		Q14d: Timing of duck seasons?					
		Much better	Somewhat better	Neither better nor worse	Somewhat worse	Much worse	Total
Q5: Over last 5 yrs, day usually hunted ducks per year?	5 or less	1%	7%	66%	19%	8%	1467
	6 to 10	1%	8%	59%	21%	10%	2583
	11 to 20	1%	11%	51%	24%	13%	2886
	21 to 30	2%	12%	43%	25%	18%	1621
	More than 30	2%	11%	47%	23%	16%	1061
	Total	1%	10%	54%	22%	13%	9619
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	1%	10%	42%	26%	21%	1264
	About right	1%	10%	55%	22%	11%	6893
	Too high	1%	7%	53%	23%	15%	771
	No opinion	1%	6%	62%	20%	11%	527
	Total	1%	10%	54%	23%	13%	9455
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	1%	7%	37%	33%	22%	3321
	About right	2%	11%	64%	16%	7%	5632
	Too long	1%	4%	46%	35%	14%	296
	No opinion	1%	5%	65%	22%	7%	283
	Total	1%	10%	54%	23%	13%	9532
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	5 ducks or less	1%	10%	67%	14%	7%	733
	6-10 ducks	1%	9%	63%	20%	6%	1182
	11-20 ducks	1%	10%	58%	20%	11%	2520
	21-50 ducks	2%	10%	49%	25%	15%	2906
	> 50 ducks	2%	10%	40%	29%	19%	1132
	No opinion	1%	8%	55%	23%	13%	980
	Total	1%	10%	54%	23%	13%	9452
q27: Your view of motorized spinning-wing decoys?	Be allowed	1%	11%	51%	23%	14%	4984
	Not be allowed	1%	9%	55%	22%	12%	2219
	No opinion	2%	9%	58%	21%	10%	2203
	Total	1%	10%	54%	23%	13%	9406
Q29: Do you access the internet to look up duck hunting information?	Frequently	1%	10%	47%	26%	16%	1904
	Once in a while	1%	10%	53%	23%	12%	4704
	Not at all	1%	8%	60%	19%	11%	2970
	Total	1%	10%	54%	22%	13%	9579
Q30: \$\$ you spend on duck hunting each year	\$250 or less	1%	8%	62%	19%	9%	3259
	\$251-\$1000	1%	10%	52%	24%	13%	4339
	\$1001-\$5000	1%	11%	44%	25%	19%	1690
	Over \$5000	4%	17%	43%	18%	18%	254
	Total	1%	10%	54%	23%	13%	9542
Q32: Your age:	24 or under	2%	11%	57%	20%	10%	1135
	25-44	1%	9%	52%	24%	14%	3972
	45-64	1%	10%	54%	22%	13%	3822
	65 or over	3%	8%	60%	20%	10%	635
	Total	1%	10%	54%	23%	13%	9564

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

Q14. Thinking about changes in hunting quality over the last 5 years in the state were you hunted most, how much better or worse do you think the following have become?
 (“Don’t Know” Removed from Q14a-Q14i for purposes of this analysis—see USA analysis above for absolute and relative frequencies of those responding “Don’t Know.”)

		Q14e: Overall duck numbers?					
		Much better	Somewhat better	Neither better nor worse	Somewhat worse	Much worse	Total
Q5: Over last 5 yrs, day usually hunted ducks per year?	5 or less	1%	16%	26%	34%	22%	1476
	6 to 10	2%	15%	26%	33%	24%	2624
	11 to 20	2%	15%	23%	33%	27%	2915
	21 to 30	3%	14%	23%	31%	29%	1632
	More than 30	3%	17%	22%	31%	27%	1060
	Total	2%	15%	24%	33%	26%	9706
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	4%	18%	25%	29%	25%	1271
	About right	2%	16%	25%	34%	23%	6946
	Too high	1%	7%	12%	29%	52%	782
	No opinion	2%	13%	29%	32%	24%	545
	Total	2%	15%	24%	33%	26%	9544
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	2%	16%	26%	30%	25%	3343
	About right	2%	15%	23%	34%	25%	5675
	Too long	0%	4%	14%	28%	54%	309
	No opinion	2%	14%	33%	31%	20%	294
	Total	2%	15%	24%	33%	26%	9622
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	5 ducks or less	3%	23%	30%	29%	15%	751
	6-10 ducks	2%	18%	25%	35%	20%	1185
	11-20 ducks	2%	16%	24%	33%	25%	2550
	21-50 ducks	2%	13%	23%	33%	29%	2915
	> 50 ducks	2%	10%	19%	30%	38%	1135
	No opinion	3%	15%	29%	32%	21%	993
	Total	2%	15%	24%	33%	26%	9529
q27: Your view of motorized spinning-wing decoys?	Be allowed	3%	17%	25%	32%	23%	5006
	Not be allowed	1%	11%	19%	34%	34%	2247
	No opinion	2%	15%	26%	33%	23%	2240
	Total	2%	15%	24%	33%	26%	9493
Q29: Do you access the internet to look up duck hunting information?	Frequently	2%	14%	24%	34%	26%	1912
	Once in a while	2%	16%	24%	32%	26%	4731
	Not at all	2%	15%	25%	32%	26%	3019
	Total	2%	15%	24%	33%	26%	9662
Q30: \$\$ you spend on duck hunting each year	\$250 or less	2%	17%	27%	32%	22%	3285
	\$251-\$1000	2%	15%	23%	34%	26%	4383
	\$1001-\$5000	2%	12%	21%	30%	34%	1696
	Over \$5000	2%	18%	23%	30%	27%	254
	Total	2%	15%	24%	33%	26%	9618
Q32: Your age:	24 or under	5%	23%	25%	30%	16%	1139
	25-44	2%	14%	25%	33%	25%	3986
	45-64	1%	14%	23%	33%	29%	3857
	65 or over	2%	12%	24%	32%	30%	656
	Total	2%	15%	24%	32%	26%	9638

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

**Q14. Thinking about changes in hunting quality over the last 5 years in the state were you hunted most, how much better or worse do you think the following have become?
("Don't Know" Removed from Q14a-Q14i for purposes of this analysis—see USA analysis above for absolute and relative frequencies of those responding "Don't Know.")**

		Q14f: Ease of understanding regs?					Total
		Much better	Somewhat better	Neither better nor worse	Somewhat worse	Much worse	
Q5: Over last 5 yrs, day usually hunted ducks per year?	5 or less	2%	10%	67%	15%	6%	1509
	6 to 10	2%	12%	66%	13%	6%	2653
	11 to 20	4%	15%	63%	12%	6%	2917
	21 to 30	5%	18%	60%	10%	7%	1631
	More than 30	8%	16%	60%	10%	6%	1050
	Total	4%	14%	64%	12%	6%	9760
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	4%	13%	58%	15%	10%	1274
	About right	4%	15%	65%	12%	5%	6990
	Too high	4%	10%	66%	12%	8%	775
	No opinion	6%	14%	62%	12%	6%	553
	Total	4%	14%	64%	12%	6%	9592
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	5%	16%	59%	13%	8%	3351
	About right	3%	14%	66%	12%	5%	5706
	Too long	4%	7%	68%	7%	14%	306
	No opinion	5%	13%	67%	11%	4%	308
	Total	4%	14%	64%	12%	6%	9671
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	5 ducks or less	4%	13%	66%	11%	6%	773
	6-10 ducks	3%	14%	63%	14%	6%	1179
	11-20 ducks	3%	16%	62%	13%	6%	2548
	21-50 ducks	4%	15%	63%	11%	6%	2927
	> 50 ducks	5%	13%	62%	10%	9%	1140
	No opinion	3%	9%	71%	12%	5%	1012
	Total	4%	14%	64%	12%	6%	9578
q27: Your view of motorized spinning-wing decoys?	Be allowed	4%	14%	62%	13%	7%	5031
	Not be allowed	3%	14%	64%	13%	7%	2250
	No opinion	4%	13%	67%	11%	5%	2263
	Total	4%	14%	64%	12%	6%	9544
Q29: Do you access the internet to look up duck hunting information?	Frequently	5%	17%	60%	13%	6%	1923
	Once in a while	3%	14%	65%	12%	6%	4768
	Not at all	4%	12%	64%	13%	7%	3027
	Total	4%	14%	64%	12%	6%	9719
Q30: \$\$ you spend on duck hunting each year	\$250 or less	3%	14%	65%	13%	5%	3324
	\$251-\$1000	4%	15%	63%	12%	6%	4394
	\$1001-\$5000	5%	11%	64%	12%	8%	1701
	Over \$5000	4%	14%	56%	13%	14%	254
	Total	4%	14%	64%	12%	6%	9673
Q32: Your age:	24 or under	8%	22%	57%	9%	5%	1133
	25-44	4%	13%	66%	12%	5%	4027
	45-64	3%	13%	64%	13%	8%	3880
	65 or over	2%	15%	59%	15%	9%	659
	Total	4%	14%	64%	12%	6%	9699

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

Q14. Thinking about changes in hunting quality over the last 5 years in the state were you hunted most, how much better or worse do you think the following have become?
 (“Don’t Know” Removed from Q14a-Q14i for purposes of this analysis—see USA analysis above for absolute and relative frequencies of those responding “Don’t Know.”)

		Q14g: Number of places to hunt?					
		Much better	Somewhat better	Neither better nor worse	Somewhat worse	Much worse	Total
Q5: Over last 5 yrs, day usually hunted ducks per year?	5 or less	1%	7%	38%	34%	19%	1498
	6 to 10	2%	8%	37%	34%	20%	2644
	11 to 20	1%	10%	38%	32%	19%	2928
	21 to 30	2%	10%	38%	26%	24%	1627
	More than 30	4%	11%	35%	26%	24%	1050
	Total	2%	9%	37%	31%	21%	9747
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	2%	9%	30%	32%	27%	1271
	About right	2%	10%	38%	31%	19%	6950
	Too high	1%	7%	37%	31%	24%	783
	No opinion	4%	8%	38%	30%	20%	573
	Total	2%	9%	37%	31%	21%	9577
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	1%	9%	34%	31%	25%	3349
	About right	2%	10%	38%	32%	18%	5690
	Too long	1%	8%	44%	25%	22%	305
	No opinion	2%	6%	42%	33%	17%	313
	Total	2%	9%	37%	31%	21%	9658
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	5 ducks or less	2%	10%	40%	31%	17%	753
	6-10 ducks	2%	9%	36%	34%	19%	1193
	11-20 ducks	1%	8%	36%	34%	20%	2547
	21-50 ducks	2%	10%	37%	30%	21%	2952
	> 50 ducks	3%	9%	39%	24%	25%	1120
	No opinion	1%	7%	39%	33%	20%	1008
	Total	2%	9%	37%	31%	20%	9572
q27: Your view of motorized spinning-wing decoys?	Be allowed	2%	10%	38%	31%	19%	5030
	Not be allowed	1%	8%	34%	34%	24%	2247
	No opinion	2%	10%	38%	30%	20%	2254
	Total	2%	9%	37%	31%	21%	9531
Q29: Do you access the internet to look up duck hunting information?	Frequently	2%	11%	34%	29%	23%	1928
	Once in a while	2%	10%	37%	32%	19%	4746
	Not at all	2%	7%	39%	31%	22%	3030
	Total	2%	9%	37%	31%	21%	9704
Q30: \$\$ you spend on duck hunting each year	\$250 or less	2%	9%	39%	32%	18%	3322
	\$251-\$1000	2%	9%	35%	33%	21%	4406
	\$1001-\$5000	2%	9%	37%	28%	24%	1686
	Over \$5000	5%	9%	43%	20%	23%	246
	Total	2%	9%	37%	31%	21%	9660
Q32: Your age:	24 or under	5%	15%	37%	27%	16%	1156
	25-44	1%	9%	37%	32%	21%	4010
	45-64	1%	8%	37%	32%	22%	3878
	65 or over	2%	9%	39%	28%	22%	643
	Total	2%	9%	37%	31%	21%	9687

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

Q14. Thinking about changes in hunting quality over the last 5 years in the state were you hunted most, how much better or worse do you think the following have become?
(“Don’t Know” Removed from Q14a-Q14i for purposes of this analysis—see USA analysis above for absolute and relative frequencies of those responding “Don’t Know.”)

		Q14h: Time I have to hunt ducks?					
		Much better	Somewhat better	Neither better nor worse	Somewhat worse	Much worse	Total
Q5: Over last 5 yrs, day usually hunted ducks per year?	5 or less	3%	6%	41%	32%	19%	1540
	6 to 10	3%	12%	46%	29%	10%	2654
	11 to 20	3%	15%	51%	22%	8%	2953
	21 to 30	6%	20%	49%	20%	5%	1637
	More than 30	9%	22%	53%	13%	4%	1072
	Total	4%	14%	48%	24%	9%	9856
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	4%	14%	43%	27%	12%	1276
	About right	4%	15%	49%	24%	8%	7040
	Too high	5%	16%	48%	21%	10%	788
	No opinion	4%	7%	51%	23%	16%	579
	Total	4%	14%	48%	24%	9%	9684
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	4%	15%	42%	28%	11%	3374
	About right	5%	14%	51%	22%	8%	5755
	Too long	6%	16%	50%	20%	8%	318
	No opinion	3%	6%	54%	23%	13%	321
	Total	4%	14%	48%	24%	9%	9767
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	5 ducks or less	3%	12%	46%	26%	12%	774
	6-10 ducks	3%	11%	43%	30%	12%	1203
	11-20 ducks	3%	12%	48%	27%	10%	2555
	21-50 ducks	4%	18%	49%	23%	7%	2966
	> 50 ducks	8%	18%	51%	17%	6%	1147
	No opinion	2%	14%	51%	19%	13%	1030
	Total	4%	14%	48%	24%	9%	9675
q27: Your view of motorized spinning-wing decoys?	Be allowed	4%	15%	49%	24%	9%	5083
	Not be allowed	5%	15%	46%	25%	8%	2270
	No opinion	4%	13%	46%	24%	12%	2286
	Total	4%	14%	48%	24%	9%	9639
Q29: Do you access the internet to look up duck hunting information?	Frequently	5%	18%	48%	21%	8%	1941
	Once in a while	3%	14%	47%	27%	10%	4793
	Not at all	5%	13%	49%	22%	10%	3081
	Total	4%	15%	48%	24%	9%	9816
Q30: \$\$ you spend on duck hunting each year	\$250 or less	3%	10%	48%	27%	12%	3371
	\$251-\$1000	4%	16%	47%	25%	9%	4426
	\$1001-\$5000	6%	19%	50%	20%	5%	1722
	Over \$5000	13%	25%	46%	9%	6%	254
	Total	4%	15%	48%	24%	9%	9772
Q32: Your age:	24 or under	4%	19%	46%	23%	8%	1165
	25-44	2%	11%	47%	27%	12%	4041
	45-64	5%	15%	49%	24%	8%	3937
	65 or over	15%	26%	46%	9%	4%	658
	Total	4%	15%	48%	24%	9%	9800

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

Q14. Thinking about changes in hunting quality over the last 5 years in the state were you hunted most, how much better or worse do you think the following have become?
(“Don’t Know” Removed from Q14a-Q14i for purposes of this analysis—see USA analysis above for absolute and relative frequencies of those responding “Don’t Know.”)

		Q14i: Weather patterns for duck hunting?					
		Much better	Somewhat better	Neither better nor worse	Somewhat worse	Much worse	Total
Q5: Over last 5 yrs, days usually hunted ducks per year?	5 or less	0%	4%	55%	31%	10%	1442
	6 to 10	1%	4%	51%	31%	13%	2593
	11 to 20	0%	5%	47%	31%	17%	2855
	21 to 30	0%	6%	37%	33%	23%	1633
	More than 30	1%	7%	37%	34%	21%	1066
	Total	0%	5%	46%	32%	16%	9588
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	1%	5%	45%	30%	18%	1247
	About right	0%	5%	47%	32%	16%	6866
	Too high	0%	3%	41%	36%	20%	780
	No opinion	1%	5%	50%	31%	13%	526
	Total	0%	5%	46%	32%	16%	9419
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	1%	5%	41%	32%	21%	3293
	About right	0%	5%	50%	32%	14%	5627
	Too long	0%	3%	42%	34%	21%	298
	No opinion	2%	5%	56%	29%	8%	283
	Total	0%	5%	46%	32%	16%	9500
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	5 ducks or less	1%	6%	57%	25%	10%	732
	6-10 ducks	1%	5%	55%	30%	9%	1157
	11-20 ducks	0%	4%	49%	32%	14%	2479
	21-50 ducks	0%	6%	41%	34%	19%	2911
	> 50 ducks	0%	4%	33%	36%	27%	1137
	No opinion	0%	4%	51%	29%	16%	991
	Total	0%	5%	46%	32%	16%	9408
q27: Your view of motorized spinning-wing decoys?	Be allowed	1%	5%	45%	32%	17%	4951
	Not be allowed	0%	4%	45%	33%	17%	2210
	No opinion	0%	5%	51%	30%	13%	2206
	Total	0%	5%	46%	32%	16%	9368
Q29: Do you access the internet to look up duck hunting information?	Frequently	1%	6%	39%	34%	20%	1911
	Once in a while	0%	4%	46%	33%	16%	4674
	Not at all	1%	5%	53%	28%	14%	2960
	Total	0%	5%	47%	32%	16%	9545
Q30: \$\$ you spend on duck hunting each year	\$250 or less	0%	5%	55%	28%	11%	3225
	\$251-\$1000	1%	4%	45%	34%	16%	4327
	\$1001-\$5000	0%	5%	36%	34%	25%	1697
	Over \$5000	0%	9%	34%	38%	18%	252
	Total	0%	5%	46%	32%	16%	9500
Q32: Your age:	24 or under	2%	13%	46%	26%	13%	1117
	25-44	0%	4%	44%	34%	18%	3945
	45-64	0%	4%	47%	33%	16%	3825
	65 or over	0%	4%	58%	25%	13%	642
	Total	0%	5%	47%	32%	16%	9529

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

Q15. “Please indicate how much more or less of a problem the following have become over the last 5 years in the state where you hunted most.” (“Don’t Know” Removed from Q15a-Q15g for purposes of this analysis—see USA analysis above for absolute and relative frequencies of those responding “Don’t Know.”)

		Q15a: Crowding at hunting areas?					
		Much more	Somewhat more	Neither more or less	Somewhat less	Much less	Total
Q5: Over last 5 yrs, day usually hunted ducks per year?	5 or less	12%	38%	43%	7%	1%	1500
	6 to 10	17%	41%	36%	4%	1%	2634
	11 to 20	20%	42%	32%	5%	1%	2937
	21 to 30	27%	40%	28%	3%	1%	1608
	More than 30	34%	35%	25%	4%	1%	1048
	Total	21%	40%	33%	5%	1%	9727
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	21%	40%	31%	6%	1%	1283
	About right	20%	41%	34%	4%	1%	6947
	Too high	31%	36%	27%	4%	1%	768
	No opinion	21%	33%	39%	6%	1%	557
	Total	21%	40%	34%	5%	1%	9554
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	24%	40%	31%	5%	1%	3347
	About right	19%	40%	35%	5%	1%	5672
	Too long	24%	43%	26%	5%	1%	310
	No opinion	18%	34%	41%	7%	1%	306
	Total	21%	40%	33%	5%	1%	9635
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	5 ducks or less	14%	37%	43%	5%	2%	774
	6-10 ducks	14%	42%	36%	7%	1%	1183
	11-20 ducks	19%	42%	33%	4%	1%	2553
	21-50 ducks	22%	40%	32%	4%	1%	2926
	> 50 ducks	32%	35%	28%	4%	1%	1122
	No opinion	22%	39%	34%	4%	1%	992
	Total	21%	40%	34%	5%	1%	9550
q27: Your view of motorized spinning-wing decoys?	Be allowed	21%	41%	33%	4%	1%	5017
	Not be allowed	24%	40%	30%	4%	1%	2250
	No opinion	18%	37%	39%	5%	1%	2229
	Total	21%	40%	34%	4%	1%	9497
Q29: Do you access the internet to look up duck hunting information?	Frequently	27%	41%	27%	4%	2%	1915
	Once in a while	20%	41%	34%	5%	1%	4773
	Not at all	18%	38%	38%	5%	1%	2996
	Total	21%	40%	34%	5%	1%	9684
Q30: \$\$ you spend on duck hunting each year	\$250 or less	17%	38%	38%	5%	1%	3321
	\$251-\$1000	21%	42%	31%	5%	1%	4406
	\$1001-\$5000	27%	38%	30%	3%	2%	1672
	Over \$5000	29%	39%	25%	4%	2%	243
	Total	21%	40%	33%	5%	1%	9642
Q32: Your age:	24 or under	23%	40%	30%	5%	2%	1164
	25-44	24%	41%	31%	4%	1%	3989
	45-64	17%	39%	37%	5%	2%	3872
	65 or over	19%	35%	36%	8%	1%	637
	Total	21%	40%	33%	5%	1%	9661

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

Q15. “Please indicate how much more or less of a problem the following have become over the last 5 years in the state where you hunted most.” (“Don’t Know” Removed from Q15a-Q15g for purposes of this analysis—see USA analysis above for absolute and relative frequencies of those responding “Don’t Know.”)

		Q15b: Hunting pressure?					
		Much more	Somewhat more	Neither more or less	Somewhat less	Much less	Total
Q5: Over last 5 yrs, do you usually hunt ducks per year?	5 or less	9%	40%	42%	8%	1%	1506
	6 to 10	15%	43%	35%	6%	1%	2640
	11 to 20	18%	44%	30%	7%	1%	2948
	21 to 30	25%	41%	26%	7%	1%	1626
	More than 30	31%	39%	25%	4%	1%	1073
	Total	19%	42%	32%	6%	1%	9793
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	17%	39%	35%	7%	2%	1298
	About right	17%	43%	32%	6%	1%	6995
	Too high	33%	40%	21%	6%	1%	790
	No opinion	17%	38%	39%	5%	2%	542
	Total	19%	42%	32%	6%	1%	9625
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	20%	42%	31%	7%	1%	3356
	About right	17%	42%	33%	6%	1%	5728
	Too long	30%	42%	23%	4%	2%	319
	No opinion	16%	31%	44%	7%	2%	301
	Total	18%	42%	32%	6%	1%	9703
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	5 ducks or less	13%	36%	40%	9%	1%	782
	6-10 ducks	11%	45%	36%	6%	2%	1188
	11-20 ducks	16%	45%	32%	6%	1%	2546
	21-50 ducks	21%	41%	30%	7%	1%	2942
	> 50 ducks	29%	40%	25%	5%	1%	1159
	No opinion	18%	41%	33%	6%	1%	1000
	Total	18%	42%	32%	6%	1%	9618
Q27: Your view of motorized spinning-wing decoys?	Be allowed	18%	43%	32%	6%	1%	5049
	Not be allowed	24%	41%	28%	6%	1%	2261
	No opinion	15%	40%	37%	6%	1%	2257
	Total	19%	42%	32%	6%	1%	9567
Q29: Do you access the internet to look up duck hunting information?	Frequently	24%	43%	26%	6%	1%	1930
	Once in a while	17%	44%	32%	6%	1%	4797
	Not at all	17%	38%	36%	7%	1%	3023
	Total	19%	42%	32%	6%	1%	9750
Q30: \$\$ you spend on duck hunting each year?	\$250 or less	14%	39%	38%	8%	1%	3323
	\$251-\$1000	19%	44%	30%	6%	1%	4425
	\$1001-\$5000	23%	43%	27%	5%	1%	1705
	Over \$5000	27%	39%	29%	4%	0%	253
	Total	18%	42%	32%	6%	1%	9707
Q32: Your age:	24 or under	18%	41%	32%	7%	1%	1154
	25-44	20%	44%	30%	5%	1%	4010
	45-64	17%	42%	34%	7%	1%	3917
	65 or over	20%	34%	35%	10%	2%	645
	Total	19%	42%	32%	6%	1%	9726

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

Q15. “Please indicate how much more or less of a problem the following have become over the last 5 years in the state where you hunted most.” (“Don’t Know” Removed from Q15a-Q15g for purposes of this analysis—see USA analysis above for absolute and relative frequencies of those responding “Don’t Know.”)

		Q15c: Ducks unable to find rest areas?					
		Much more	Somewhat more	Neither more or less	Somewhat less	Much less	Total
Q5: Over last 5 yrs, days usually hunted ducks per year?	5 or less	4%	23%	61%	9%	4%	1374
	6 to 10	6%	20%	63%	8%	3%	2480
	11 to 20	8%	20%	58%	9%	5%	2809
	21 to 30	10%	24%	51%	51%	8%	1568
	More than 30	13%	19%	49%	11%	8%	1039
	Total	8%	21%	57%	9%	5%	9271
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	5%	21%	58%	9%	7%	1246
	About right	8%	20%	59%	9%	5%	6617
	Too high	17%	27%	41%	8%	6%	753
	No opinion	5%	23%	60%	8%	5%	484
	Total	8%	21%	57%	9%	5%	9101
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	8%	22%	54%	10%	6%	3171
	About right	7%	20%	60%	8%	5%	5450
	Too long	17%	20%	51%	8%	3%	303
	No opinion	6%	21%	62%	7%	4%	266
	Total	8%	21%	58%	9%	5%	9190
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	5 ducks or less	6%	20%	62%	10%	2%	722
	6-10 ducks	5%	22%	62%	9%	2%	1117
	11-20 ducks	8%	21%	60%	7%	4%	2411
	21-50 ducks	8%	21%	56%	10%	5%	2835
	> 50 ducks	11%	22%	49%	8%	10%	1112
	No opinion	7%	20%	60%	7%	5%	908
	Total	8%	21%	58%	9%	5%	9105
q27: Your view of motorized spinning-wing decoys?	Be allowed	6%	20%	60%	8%	5%	4773
	Not be allowed	12%	24%	49%	10%	5%	2170
	No opinion	8%	20%	60%	8%	4%	2116
	Total	8%	21%	57%	9%	5%	9059
Q29: Do you access the internet to look up duck hunting information?	Frequently	12%	21%	53%	9%	6%	1871
	Once in a while	6%	23%	58%	9%	4%	4548
	Not at all	8%	19%	59%	8%	6%	2805
	Total	8%	21%	58%	9%	5%	9224
Q30: \$\$ you spend on duck hunting each year?	\$250 or less	5%	21%	62%	9%	3%	3086
	\$251-\$1000	8%	22%	56%	9%	5%	4189
	\$1001-\$5000	11%	21%	53%	8%	7%	1668
	Over \$5000	10%	20%	48%	10%	12%	246
	Total	8%	21%	57%	9%	5%	9189
Q32: Your age:	24 or under	8%	25%	54%	8%	5%	1113
	25-44	7%	22%	57%	8%	5%	3815
	45-64	7%	19%	59%	9%	5%	3683
	65 or over	10%	19%	58%	10%	4%	594
	Total	8%	21%	58%	9%	5%	9204

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

Q15. “Please indicate how much more or less of a problem the following have become over the last 5 years in the state where you hunted most.” (“Don’t Know” Removed from Q15a-Q15g for purposes of this analysis—see USA analysis above for absolute and relative frequencies of those responding “Don’t Know.”)

		Q15d: Shifting duck migration routes?					
		Much more	Somewhat more	Neither more or less	Somewhat less	Much less	Total
Q5: Over last 5 yrs, day usually hunted ducks per year?	5 or less	14%	27%	52%	6%	1%	1275
	6 to 10	16%	29%	48%	6%	2%	2331
	11 to 20	20%	32%	40%	6%	2%	2697
	21 to 30	24%	31%	38%	5%	2%	1532
	More than 30	24%	31%	37%	6%	2%	981
	Total	19%	30%	43%	5%	2%	8816
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	18%	30%	42%	7%	3%	1159
	About right	18%	29%	45%	5%	2%	6335
	Too high	32%	36%	25%	6%	1%	734
	No opinion	20%	28%	48%	2%	2%	434
	Total	19%	30%	43%	5%	2%	8661
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	21%	29%	42%	6%	2%	3023
	About right	18%	30%	45%	5%	2%	5196
	Too long	31%	36%	26%	6%	1%	291
	No opinion	12%	29%	50%	5%	3%	228
	Total	19%	30%	43%	5%	2%	8738
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	5 ducks or less	11%	24%	58%	5%	2%	672
	6-10 ducks	15%	27%	50%	6%	2%	1055
	11-20 ducks	18%	29%	46%	5%	2%	2282
	21-50 ducks	20%	33%	38%	6%	2%	2715
	> 50 ducks	30%	31%	32%	5%	2%	1080
	No opinion	18%	31%	46%	3%	1%	859
	Total	19%	30%	43%	5%	2%	8662
q27: Your view of motorized spinning-wing decoys?	Be allowed	18%	30%	45%	5%	2%	4589
	Not be allowed	25%	32%	35%	6%	1%	2033
	No opinion	16%	28%	48%	7%	2%	1995
	Total	19%	30%	43%	6%	2%	8617
Q29: Do you access the internet to look up duck hunting information?	Frequently	23%	29%	42%	6%	1%	1765
	Once in a while	17%	32%	44%	5%	2%	4359
	Not at all	20%	28%	44%	6%	2%	2658
	Total	19%	30%	43%	6%	2%	8782
Q30: \$\$ you spend on duck hunting each year	\$250 or less	15%	27%	50%	6%	1%	2894
	\$251-\$1000	19%	31%	43%	5%	2%	4027
	\$1001-\$5000	26%	33%	35%	5%	1%	1575
	Over \$5000	27%	31%	31%	9%	3%	245
	Total	19%	30%	43%	6%	2%	8741
Q32: Your age:	24 or under	16%	27%	51%	5%	2%	1065
	25-44	18%	32%	44%	5%	2%	3611
	45-64	21%	30%	41%	6%	2%	3515
	65 or over	23%	23%	44%	7%	3%	575
	Total	19%	30%	43%	6%	2%	8765

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

Q15. “Please indicate how much more or less of a problem the following have become over the last 5 years in the state where you hunted most.” (“Don’t Know” Removed from Q15a-Q15g for purposes of this analysis—see USA analysis above for absolute and relative frequencies of those responding “Don’t Know.”)

		Q15e: Interference from other hunters?					
		Much more	Somewhat more	Neither more or less	Somewhat less	Much less	Total
Q5: Over last 5 yrs, day usually hunted ducks per year?	5 or less	7%	31%	55%	6%	2%	1478
	6 to 10	10%	35%	50%	4%	1%	2605
	11 to 20	13%	34%	49%	3%	1%	2920
	21 to 30	21%	34%	39%	5%	2%	1615
	More than 30	20%	37%	37%	3%	2%	1052
	Total	13%	34%	47%	4%	2%	9670
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	16%	37%	41%	4%	3%	1273
	About right	12%	34%	49%	4%	1%	6910
	Too high	20%	31%	43%	4%	2%	772
	No opinion	14%	28%	52%	5%	1%	550
	Total	13%	34%	47%	4%	2%	9505
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	16%	36%	43%	4%	1%	3310
	About right	11%	33%	50%	4%	2%	5669
	Too long	17%	33%	45%	3%	1%	307
	No opinion	12%	27%	53%	7%	2%	294
	Total	13%	34%	47%	4%	2%	9580
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	5 ducks or less	10%	29%	54%	5%	2%	771
	6-10 ducks	10%	36%	48%	4%	2%	1165
	11-20 ducks	10%	35%	50%	4%	1%	2523
	21-50 ducks	15%	34%	46%	4%	2%	2920
	> 50 ducks	22%	33%	40%	2%	2%	1132
	No opinion	13%	33%	50%	4%	1%	988
	Total	13%	34%	47%	4%	2%	9500
q27: Your view of motorized spinning-wing decoys?	Be allowed	12%	35%	47%	4%	2%	4995
	Not be allowed	18%	34%	43%	4%	1%	2247
	No opinion	11%	31%	53%	4%	2%	2207
	Total	13%	34%	47%	4%	2%	9450
Q29: Do you access the internet to look up duck hunting information?	Frequently	17%	36%	42%	3%	2%	1926
	Once in a while	12%	35%	47%	4%	1%	4708
	Not at all	13%	30%	50%	4%	2%	2993
	Total	13%	34%	47%	4%	2%	9627
Q30: \$\$ you spend on duck hunting each year	\$250 or less	11%	32%	51%	5%	1%	3294
	\$251-\$1000	13%	37%	45%	4%	2%	4363
	\$1001-\$5000	17%	32%	46%	3%	2%	1684
	Over \$5000	17%	30%	46%	4%	3%	244
	Total	13%	34%	47%	4%	2%	9586
Q32: Your age:	24 or under	18%	37%	38%	5%	2%	1144
	25-44	15%	37%	44%	3%	1%	3981
	45-64	11%	32%	52%	4%	2%	3838
	65 or over	9%	27%	56%	6%	2%	641
	Total	13%	34%	47%	4%	2%	9604

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

Q15. “Please indicate how much more or less of a problem the following have become over the last 5 years in the state where you hunted most.” (“Don’t Know” Removed from Q15a-Q15g for purposes of this analysis—see USA analysis above for absolute and relative frequencies of those responding “Don’t Know.”)

		Q15f: Ducks arriving after season close?					
		Much more	Somewhat more	Neither more or less	Somewhat less	Much less	Total
Q5: Over last 5 yrs, do you usually hunt ducks per year?	5 or less	14%	31%	48%	5%	2%	1336
	6 to 10	19%	35%	42%	3%	2%	2536
	11 to 20	28%	35%	33%	3%	1%	2869
	21 to 30	36%	34%	26%	3%	2%	1617
	More than 30	35%	31%	28%	4%	2%	1050
	Total	26%	34%	36%	3%	2%	9407
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	37%	34%	23%	4%	2%	1247
	About right	24%	34%	37%	3%	2%	6740
	Too high	25%	30%	39%	3%	3%	764
	No opinion	23%	27%	45%	3%	2%	497
	Total	26%	34%	36%	3%	2%	9247
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	42%	39%	16%	2%	1%	3311
	About right	17%	30%	47%	4%	2%	5465
	Too long	15%	35%	40%	6%	4%	295
	No opinion	14%	35%	46%	3%	2%	250
	Total	26%	34%	36%	3%	2%	9321
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	5 ducks or less	16%	30%	49%	3%	2%	704
	6-10 ducks	14%	32%	47%	5%	2%	1121
	11-20 ducks	22%	33%	39%	4%	1%	2441
	21-50 ducks	31%	35%	29%	3%	2%	2890
	> 50 ducks	38%	33%	25%	2%	2%	1143
	No opinion	25%	32%	39%	3%	1%	931
	Total	26%	33%	36%	3%	2%	9231
q27: Your view of motorized spinning-wing decoys?	Be allowed	29%	34%	32%	3%	2%	4891
	Not be allowed	24%	32%	39%	3%	2%	2181
	No opinion	20%	34%	40%	4%	2%	2125
	Total	26%	34%	36%	3%	2%	9197
Q29: Do you access the internet to look up duck hunting information?	Frequently	32%	35%	28%	3%	2%	1893
	Once in a while	25%	36%	35%	3%	1%	4617
	Not at all	22%	30%	41%	4%	2%	2855
	Total	26%	34%	36%	3%	2%	9365
Q30: \$\$ you spend on duck hunting each year?	\$250 or less	19%	31%	44%	4%	2%	3129
	\$251-\$1000	26%	36%	33%	3%	1%	4274
	\$1001-\$5000	35%	33%	28%	3%	1%	1672
	Over \$5000	26%	33%	36%	3%	2%	256
	Total	26%	34%	36%	3%	2%	9331
Q32: Your age:	24 or under	29%	30%	35%	4%	2%	1131
	25-44	28%	36%	32%	3%	1%	3897
	45-64	24%	32%	39%	4%	2%	3723
	65 or over	16%	37%	42%	3%	3%	600
	Total	26%	34%	36%	3%	2%	9351

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

Q15. “Please indicate how much more or less of a problem the following have become over the last 5 years in the state where you hunted most.” (“Don’t Know” Removed from Q15a-Q15g for purposes of this analysis—see USA analysis above for absolute and relative frequencies of those responding “Don’t Know.”)

		Q15g: Ducks concentrating on fewer areas?					
		Much more	Somewhat more	Neither more or less	Somewhat less	Much less	Total
Q5: Over last 5 yrs, days usually hunted ducks per year?	5 or less	10%	36%	48%	4%	1%	1379
	6 to 10	12%	38%	46%	4%	1%	2487
	11 to 20	16%	39%	42%	3%	1%	2826
	21 to 30	22%	37%	35%	4%	2%	1602
	More than 30	22%	36%	36%	4%	2%	1037
	Total	16%	38%	42%	4%	1%	9331
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	21%	37%	38%	4%	1%	1238
	About right	14%	38%	43%	4%	1%	6700
	Too high	22%	42%	31%	3%	2%	761
	No opinion	16%	31%	48%	3%	1%	480
	Total	16%	38%	42%	4%	1%	9180
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	20%	38%	38%	3%	1%	3219
	About right	13%	38%	44%	4%	2%	5457
	Too long	21%	30%	40%	6%	2%	305
	No opinion	15%	34%	45%	3%	2%	272
	Total	16%	38%	42%	4%	1%	9253
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	5 ducks or less	11%	34%	49%	4%	1%	728
	6-10 ducks	11%	35%	49%	4%	1%	1127
	11-20 ducks	12%	39%	44%	3%	1%	2393
	21-50 ducks	17%	40%	38%	3%	1%	2856
	> 50 ducks	27%	36%	29%	5%	3%	1127
	No opinion	13%	34%	49%	3%	1%	921
	Total	15%	38%	42%	4%	1%	9153
q27: Your view of motorized spinning-wing decoys?	Be allowed	15%	37%	43%	3%	1%	4851
	Not be allowed	19%	42%	34%	4%	2%	2147
	No opinion	13%	35%	47%	4%	2%	2110
	Total	16%	38%	42%	4%	1%	9108
Q29: Do you access the internet to look up duck hunting information?	Frequently	20%	38%	37%	3%	2%	1884
	Once in a while	14%	41%	41%	3%	1%	4568
	Not at all	15%	32%	47%	5%	1%	2832
	Total	16%	38%	42%	4%	1%	9285
Q30: \$\$ you spend on duck hunting each year	\$250 or less	12%	35%	49%	4%	1%	3097
	\$251-\$1000	16%	40%	40%	4%	1%	4255
	\$1001-\$5000	21%	39%	34%	3%	2%	1652
	Over \$5000	25%	31%	38%	3%	3%	246
	Total	16%	38%	42%	4%	1%	9249
Q32: Your age:	24 or under	14%	38%	42%	4%	2%	1109
	25-44	15%	40%	41%	3%	1%	3855
	45-64	16%	36%	43%	4%	2%	3707
	65 or over	17%	35%	42%	4%	2%	598
	Total	16%	38%	42%	4%	1%	9269

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

Q16. "For the most recent year you hunted in the state where you hunted most, how satisfied or dissatisfied were you with:"

		Q16a: Number of ducks you saw?					
		Very satisfied	Somewhat satisfied	Neutral	Somewhat dissatisfied	Very dissatisfied	Total
Q5: Over last 5 yrs, days usually hunted ducks per year?	5 or less	6%	22%	22%	32%	18%	1616
	6 to 10	6%	23%	16%	35%	19%	2741
	11 to 20	9%	22%	13%	33%	22%	2997
	21 to 30	7%	23%	14%	33%	23%	1671
	More than 30	11%	26%	13%	27%	23%	1089
	Total	8%	23%	15%	33%	21%	10113
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	8%	26%	15%	30%	22%	1324
	About right	8%	23%	16%	34%	19%	7190
	Too high	5%	16%	8%	31%	39%	794
	No opinion	8%	19%	25%	27%	21%	633
	Total	8%	23%	15%	33%	21%	9942
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	7%	22%	14%	33%	23%	3462
	About right	9%	24%	16%	33%	19%	5877
	Too long	3%	14%	10%	31%	42%	319
	No opinion	6%	20%	26%	31%	16%	366
	Total	8%	23%	15%	33%	21%	10024
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	5 ducks or less	11%	28%	23%	28%	11%	816
	6-10 ducks	9%	26%	16%	32%	17%	1226
	11-20 ducks	7%	23%	15%	34%	20%	2630
	21-50 ducks	6%	21%	14%	34%	25%	3019
	> 50 ducks	8%	18%	11%	32%	30%	1177
	No opinion	9%	23%	18%	32%	18%	1065
	Total	8%	23%	16%	33%	21%	9934
q27: Your view of motorized spinning-wing decoys?	Be allowed	9%	23%	16%	32%	20%	5198
	Not be allowed	7%	21%	11%	35%	26%	2319
	No opinion	8%	23%	19%	32%	18%	2359
	Total	8%	23%	16%	33%	21%	9876
Q29: Do you access the internet to look up duck hunting information?	Frequently	10%	23%	15%	31%	22%	1983
	Once in a while	7%	23%	15%	35%	20%	4930
	Not at all	8%	22%	16%	31%	23%	3158
	Total	8%	23%	15%	33%	21%	10071
Q30: \$\$ you spend on duck hunting each year?	\$250 or less	8%	24%	18%	33%	18%	3490
	\$251-\$1000	8%	22%	15%	34%	21%	4525
	\$1001-\$5000	8%	22%	13%	31%	27%	1748
	Over \$5000	13%	23%	17%	23%	24%	263
	Total	8%	23%	15%	33%	21%	10026
Q32: Your age:	24 or under	15%	28%	18%	27%	12%	1210
	25-44	7%	23%	16%	33%	21%	4127
	45-64	7%	21%	14%	34%	24%	4028
	65 or over	6%	22%	15%	33%	25%	683
	Total	8%	23%	16%	33%	21%	10048

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

Q16. "For the most recent year you hunted in the state where you hunted most, how satisfied or dissatisfied were you with:"

		Q16b: Number of ducks you harvested?					
		Very satisfied	Somewhat satisfied	Neutral	Somewhat dissatisfied	Very dissatisfied	Total
Q5: Over last 5 yrs, days usually hunted ducks per year?	5 or less	4%	18%	30%	31%	18%	1609
	6 to 10	5%	21%	23%	34%	17%	2734
	11 to 20	9%	22%	20%	33%	17%	2992
	21 to 30	10%	22%	17%	31%	21%	1668
	More than 30	14%	24%	17%	27%	18%	1086
	Total	8%	21%	21%	32%	18%	10089
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	6%	23%	19%	34%	18%	1318
	About right	8%	22%	21%	32%	16%	7177
	Too high	8%	19%	17%	30%	27%	791
	No opinion	6%	13%	32%	29%	20%	632
	Total	8%	21%	21%	32%	18%	9919
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	6%	19%	21%	33%	21%	3451
	About right	9%	23%	21%	31%	15%	5865
	Too long	6%	12%	12%	34%	36%	320
	No opinion	4%	16%	36%	28%	15%	366
	Total	8%	21%	21%	32%	18%	10001
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	5 ducks or less	10%	24%	35%	23%	8%	812
	6-10 ducks	7%	24%	24%	32%	14%	1233
	11-20 ducks	6%	22%	23%	33%	16%	2621
	21-50 ducks	7%	20%	17%	34%	22%	3011
	> 50 ducks	11%	19%	13%	31%	26%	1171
	No opinion	10%	20%	26%	30%	14%	1064
	Total	8%	21%	21%	32%	18%	9912
q27: Your view of motorized spinning-wing decoys?	Be allowed	8%	22%	21%	32%	18%	5187
	Not be allowed	8%	20%	19%	32%	22%	2313
	No opinion	7%	21%	25%	31%	15%	2355
	Total	8%	21%	21%	32%	18%	9855
Q29: Do you access the internet to look up duck hunting information?	Frequently	11%	21%	19%	30%	19%	1980
	Once in a while	7%	22%	21%	33%	17%	4922
	Not at all	7%	21%	24%	31%	18%	3141
	Total	8%	21%	21%	32%	18%	10043
Q30: \$\$ you spend on duck hunting each year?	\$250 or less	6%	21%	25%	31%	17%	3474
	\$251-\$1000	8%	22%	20%	34%	17%	4522
	\$1001-\$5000	10%	21%	19%	28%	23%	1743
	Over \$5000	12%	19%	18%	31%	19%	260
	Total	8%	21%	21%	32%	18%	9999
Q32: Your age:	24 or under	12%	24%	25%	27%	12%	1210
	25-44	7%	21%	21%	32%	19%	4122
	45-64	7%	21%	21%	32%	19%	4016
	65 or over	7%	19%	18%	37%	19%	672
	Total	8%	21%	21%	32%	18%	10020

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

Q16. "For the most recent year you hunted in the state where you hunted most, how satisfied or dissatisfied were you with:"

		Q16c: Timing of duck season?					Total
		Very satisfied	Somewhat satisfied	Neutral	Somewhat dissatisfied	Very dissatisfied	
Q5: Over last 5 yrs, days usually hunted ducks per year?	5 or less	6%	18%	49%	21%	7%	1600
	6 to 10	5%	17%	43%	25%	9%	2714
	11 to 20	8%	19%	34%	28%	12%	2989
	21 to 30	7%	19%	27%	32%	14%	1662
	More than 30	10%	20%	29%	26%	15%	1082
	Total	7%	18%	37%	27%	11%	10048
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	3%	13%	33%	32%	19%	1313
	About right	8%	20%	37%	26%	10%	7148
	Too high	8%	22%	33%	26%	11%	794
	No opinion	4%	11%	57%	18%	10%	627
	Total	7%	18%	37%	27%	11%	9881
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	2%	10%	25%	42%	21%	3443
	About right	10%	24%	43%	18%	5%	5829
	Too long	3%	16%	31%	39%	10%	320
	No opinion	5%	9%	65%	15%	7%	366
	Total	7%	18%	37%	27%	11%	9958
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	5 ducks or less	8%	23%	46%	18%	5%	809
	6-10 ducks	7%	22%	44%	22%	5%	1222
	11-20 ducks	6%	19%	40%	25%	10%	2612
	21-50 ducks	6%	16%	33%	30%	15%	3011
	> 50 ducks	7%	17%	26%	34%	15%	1162
	No opinion	8%	16%	39%	27%	9%	1058
	Total	7%	18%	37%	27%	11%	9874
q27: Your view of motorized spinning-wing decoys?	Be allowed	7%	18%	35%	29%	12%	5164
	Not be allowed	9%	19%	36%	26%	10%	2306
	No opinion	6%	18%	43%	23%	10%	2345
	Total	7%	18%	37%	27%	11%	9815
Q29: Do you access the internet to look up duck hunting information?	Frequently	8%	18%	31%	30%	13%	1972
	Once in a while	6%	19%	37%	27%	11%	4905
	Not at all	7%	18%	41%	24%	10%	3129
	Total	7%	18%	37%	27%	11%	10006
Q30: \$\$ you spend on duck hunting each year?	\$250 or less	6%	19%	46%	22%	8%	3464
	\$251-\$1000	7%	18%	34%	29%	12%	4505
	\$1001-\$5000	8%	17%	30%	29%	15%	1732
	Over \$5000	10%	24%	31%	19%	15%	262
	Total	7%	18%	37%	27%	11%	9963
Q32: Your age:	24 or under	7%	19%	42%	22%	9%	1206
	25-44	6%	18%	37%	28%	12%	4110
	45-64	7%	19%	36%	27%	11%	3996
	65 or over	9%	21%	39%	23%	8%	670
	Total	7%	18%	37%	26%	11%	9983

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

Q16. "For the most recent year you hunted in the state where you hunted most, how satisfied or dissatisfied were you with:"

		Q16d: Number of days in duck season?					Total
		Very satisfied	Somewhat satisfied	Neutral	Somewhat dissatisfied	Very dissatisfied	
Q5: Over last 5 yrs, do you usually hunt ducks per year?	5 or less	7%	17%	53%	18%	4%	1593
	6 to 10	9%	21%	41%	25%	4%	2723
	11 to 20	13%	23%	37%	22%	6%	2972
	21 to 30	15%	25%	30%	22%	7%	1661
	More than 30	18%	26%	31%	19%	7%	1079
	Total	12%	22%	39%	22%	5%	10028
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	4%	14%	31%	37%	14%	1318
	About right	13%	24%	39%	20%	4%	7130
	Too high	20%	25%	30%	19%	7%	786
	No opinion	6%	13%	58%	19%	5%	629
	Total	12%	22%	39%	22%	5%	9863
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	2%	9%	23%	52%	14%	3436
	About right	19%	32%	46%	4%	0%	5821
	Too long	5%	10%	30%	43%	12%	319
	No opinion	5%	7%	76%	7%	5%	365
	Total	12%	22%	39%	22%	5%	9941
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	5 ducks or less	12%	23%	45%	15%	4%	799
	6-10 ducks	11%	25%	41%	20%	3%	1220
	11-20 ducks	11%	22%	38%	24%	5%	2616
	21-50 ducks	12%	20%	37%	24%	7%	2992
	> 50 ducks	13%	26%	34%	19%	8%	1165
	No opinion	11%	20%	44%	22%	4%	1056
	Total	12%	22%	39%	22%	5%	9847
q27: Your view of motorized spinning-wing decoys?	Be allowed	11%	23%	36%	24%	6%	5150
	Not be allowed	16%	23%	38%	18%	5%	2298
	No opinion	10%	20%	45%	22%	4%	2344
	Total	12%	22%	39%	22%	5%	9793
Q29: Do you access the internet to look up duck hunting information?	Frequently	14%	22%	33%	25%	7%	1974
	Once in a while	11%	23%	39%	23%	5%	4891
	Not at all	11%	22%	42%	19%	6%	3123
	Total	12%	22%	39%	22%	5%	9988
Q30: \$\$ you spend on duck hunting each year?	\$250 or less	9%	22%	44%	21%	5%	3457
	\$251-\$1000	13%	22%	36%	24%	5%	4508
	\$1001-\$5000	14%	22%	36%	21%	7%	1722
	Over \$5000	15%	30%	25%	17%	13%	258
	Total	12%	22%	39%	22%	5%	9945
Q32: Your age:	24 or under	10%	19%	39%	27%	5%	1208
	25-44	11%	23%	39%	22%	6%	4111
	45-64	13%	22%	38%	22%	5%	3976
	65 or over	15%	21%	41%	17%	5%	671
	Total	12%	22%	39%	22%	5%	9965

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

Q16. "For the most recent year you hunted in the state where you hunted most, how satisfied or dissatisfied were you with:"

		Q16e: Number of ducks in daily limit?					
		Very satisfied	Somewhat satisfied	Neutral	Somewhat dissatisfied	Very dissatisfied	Total
Q5: Over last 5 yrs, days usually hunted ducks per year?	5 or less	13%	24%	49%	12%	2%	1602
	6 to 10	15%	28%	41%	14%	2%	2733
	11 to 20	22%	25%	36%	15%	2%	2997
	21 to 30	24%	27%	32%	15%	3%	1671
	More than 30	24%	26%	29%	16%	6%	1084
	Total	19%	26%	38%	14%	3%	10087
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	2%	7%	16%	61%	14%	1322
	About right	24%	32%	40%	4%	0%	7174
	Too high	14%	14%	26%	37%	10%	792
	No opinion	9%	13%	69%	8%	2%	630
	Total	19%	26%	38%	14%	3%	9920
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	13%	22%	40%	20%	4%	3455
	About right	24%	30%	35%	11%	1%	5855
	Too long	15%	13%	32%	28%	12%	319
	No opinion	8%	13%	69%	5%	5%	367
	Total	19%	26%	38%	14%	3%	9996
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	5 ducks or less	21%	27%	45%	5%	2%	811
	6-10 ducks	17%	27%	45%	10%	2%	1225
	11-20 ducks	19%	28%	38%	13%	2%	2624
	21-50 ducks	19%	25%	35%	19%	3%	3018
	> 50 ducks	20%	28%	28%	17%	7%	1173
	No opinion	19%	21%	43%	15%	2%	1062
	Total	19%	26%	38%	14%	3%	9913
q27: Your view of motorized spinning-wing decoys?	Be allowed	18%	28%	36%	16%	3%	5190
	Not be allowed	24%	25%	35%	13%	4%	2311
	No opinion	17%	24%	45%	12%	2%	2353
	Total	19%	26%	38%	14%	3%	9854
Q29: Do you access the internet to look up duck hunting information?	Frequently	23%	25%	34%	16%	2%	1977
	Once in a while	18%	26%	39%	14%	2%	4918
	Not at all	18%	27%	38%	13%	4%	3149
	Total	19%	26%	38%	14%	3%	10044
Q30: \$\$ you spend on duck hunting each year?	\$250 or less	16%	25%	44%	13%	3%	3473
	\$251-\$1000	19%	28%	36%	15%	3%	4524
	\$1001-\$5000	24%	25%	32%	16%	3%	1742
	Over \$5000	23%	24%	30%	19%	4%	261
	Total	19%	26%	38%	14%	3%	10000
Q32: Your age:	24 or under	17%	23%	41%	15%	4%	1212
	25-44	18%	25%	39%	14%	3%	4118
	45-64	20%	27%	36%	14%	3%	4009
	65 or over	20%	31%	34%	12%	3%	681
	Total	19%	26%	38%	14%	3%	10021

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

Q16. “For the most recent year you hunted in the state where you hunted most, how satisfied or dissatisfied were you with:”

		Q16f: Your overall hunting experience?					Total
		Very satisfied	Somewhat satisfied	Neutral	Somewhat dissatisfied	Very dissatisfied	
Q5: Over last 5 yrs, days usually hunted ducks per year?	5 or less	11%	31%	25%	25%	8%	1601
	6 to 10	12%	33%	21%	26%	7%	2733
	11 to 20	17%	34%	19%	22%	8%	2990
	21 to 30	18%	32%	17%	25%	9%	1669
	More than 30	22%	32%	14%	23%	8%	1086
	Total	15%	33%	20%	24%	8%	10079
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	11%	31%	23%	26%	9%	1323
	About right	16%	35%	19%	23%	7%	7162
	Too high	14%	22%	18%	32%	13%	794
	No opinion	14%	28%	24%	25%	8%	632
	Total	15%	33%	20%	24%	8%	9911
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	11%	30%	22%	26%	10%	3452
	About right	18%	35%	18%	22%	7%	5851
	Too long	10%	19%	18%	37%	16%	320
	No opinion	15%	29%	27%	22%	7%	366
	Total	15%	33%	20%	24%	8%	9990
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	5 ducks or less	27%	36%	23%	11%	3%	806
	6-10 ducks	16%	38%	21%	21%	5%	1224
	11-20 ducks	12%	36%	20%	25%	7%	2625
	21-50 ducks	13%	30%	19%	27%	11%	3019
	> 50 ducks	15%	27%	13%	31%	14%	1172
	No opinion	19%	31%	22%	23%	5%	1058
	Total	15%	33%	20%	24%	8%	9904
q27: Your view of motorized spinning-wing decoys?	Be allowed	15%	34%	20%	23%	8%	5182
	Not be allowed	15%	29%	16%	30%	10%	2312
	No opinion	15%	34%	22%	23%	6%	2349
	Total	15%	33%	20%	24%	8%	9843
Q29: Do you access the internet to look up duck hunting information?	Frequently	17%	32%	19%	23%	9%	1977
	Once in a while	15%	34%	20%	25%	7%	4913
	Not at all	15%	31%	20%	24%	9%	3145
	Total	15%	33%	20%	24%	8%	10035
Q30: \$\$ you spend on duck hunting each year?	\$250 or less	14%	33%	23%	23%	7%	3478
	\$251-\$1000	15%	33%	19%	25%	8%	4519
	\$1001-\$5000	15%	33%	15%	26%	11%	1738
	Over \$5000	23%	26%	17%	24%	9%	258
	Total	15%	33%	20%	24%	8%	9992
Q32: Your age:	24 or under	27%	34%	20%	15%	5%	1216
	25-44	13%	33%	22%	25%	7%	4103
	45-64	14%	33%	17%	26%	10%	4011
	65 or over	16%	28%	19%	27%	10%	682
	Total	15%	33%	20%	24%	8%	10012

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

		Daily harvest to feel satisfied with harvest?					
		0 Ducks	1-2 ducks	3-4 ducks	5-6 ducks	7 or More	Total
Q5: Over last 5 yrs, days usually hunted ducks per year?	5 or less	10%	32%	36%	18%	5%	1519
	6 to 10	9%	30%	37%	18%	6%	2595
	11 to 20	8%	24%	38%	23%	7%	2844
	21 to 30	7%	19%	41%	23%	10%	1587
	More than 30	9%	16%	40%	22%	13%	1003
	Total	9%	25%	38%	21%	8%	9547
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	2%	9%	21%	36%	33%	1263
	About right	10%	27%	40%	20%	4%	6809
	Too high	7%	34%	53%	5%	0%	762
	No opinion	15%	31%	29%	19%	6%	548
	Total	9%	25%	38%	21%	8%	9381
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	6%	20%	34%	28%	12%	3305
	About right	10%	28%	40%	18%	5%	5557
	Too long	7%	25%	54%	11%	3%	291
	No opinion	18%	40%	30%	10%	2%	309
	Total	9%	25%	38%	21%	8%	9461
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	5 ducks or less	49%	37%	7%	7%	1%	804
	6-10 ducks	10%	54%	25%	6%	4%	1212
	11-20 ducks	4%	30%	48%	16%	2%	2609
	21-50 ducks	2%	13%	45%	30%	10%	2978
	> 50 ducks	2%	5%	37%	35%	22%	1154
	No opinion	17%	26%	34%	16%	7%	614
	Total	9%	25%	38%	21%	8%	9371
q27: Your view of motorized spinning-wing decoys?	Be allowed	7%	22%	37%	24%	10%	4959
	Not be allowed	10%	29%	40%	15%	5%	2185
	No opinion	9%	30%	37%	19%	5%	2178
	Total	9%	25%	38%	21%	8%	9323
Q29: Do you access the internet to look up duck hunting information?	Frequently	8%	24%	39%	21%	8%	1880
	Once in a while	9%	25%	38%	21%	7%	4643
	Not at all	8%	26%	37%	21%	8%	2984
	Total	9%	25%	38%	21%	8%	9507
Q30: \$\$ you spend on duck hunting each year?	\$250 or less	10%	31%	37%	17%	5%	3276
	\$251-\$1000	8%	24%	37%	23%	8%	4271
	\$1001-\$5000	7%	18%	43%	22%	10%	1670
	Over \$5000	7%	13%	38%	24%	19%	249
	Total	9%	25%	38%	21%	8%	9466
Q32: Your age:	24 or under	10%	26%	32%	21%	11%	1128
	25-44	9%	24%	37%	21%	8%	3861
	45-64	8%	26%	39%	21%	6%	3842
	65 or over	5%	26%	46%	19%	4%	656
	Total	9%	25%	38%	21%	8%	9487

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

		Q18: Minimum # ducks you need to harvest in season to feel satisfied with					
		<6 ducks	6-10	11-20	21-50	> 50	Total
Q5: Over last 5 yrs, days usually hunted ducks per year?	5 or less	21%	33%	32%	12%	2%	1395
	6 to 10	10%	20%	43%	24%	3%	2427
	11 to 20	7%	8%	29%	47%	10%	2650
	21 to 30	4%	4%	17%	50%	25%	1483
	More than 30	4%	4%	11%	31%	50%	927
	Total	9%	14%	30%	34%	13%	8882
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	3%	9%	23%	46%	20%	1193
	About right	10%	14%	31%	33%	12%	6359
	Too high	8%	13%	30%	34%	14%	708
	No opinion	18%	22%	31%	23%	6%	475
	Total	9%	14%	30%	34%	13%	8736
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	6%	11%	28%	40%	14%	3071
	About right	10%	15%	31%	31%	13%	5209
	Too long	7%	18%	25%	29%	21%	265
	No opinion	31%	22%	29%	16%	3%	260
	Total	9%	14%	30%	34%	13%	8806
q27: Your view of motorized spinning-wing decoys?	Be allowed	8%	12%	29%	37%	14%	4667
	Not be allowed	10%	15%	29%	31%	15%	2054
	No opinion	11%	17%	33%	30%	9%	1976
	Total	9%	14%	30%	34%	13%	8697
Q29: Do you access the internet to look up duck hunting information?	Frequently	7%	9%	25%	40%	19%	1776
	Once in a while	9%	14%	31%	34%	13%	4327
	Not at all	11%	18%	31%	30%	10%	2745
	Total	9%	14%	30%	34%	13%	8849
Q30: \$\$ you spend on duck hunting each year?	\$250 or less	15%	23%	35%	24%	3%	3058
	\$251-\$1000	7%	11%	32%	38%	13%	3960
	\$1001-\$5000	4%	5%	17%	46%	29%	1556
	Over \$5000	0%	4%	11%	29%	55%	236
	Total	9%	14%	30%	34%	13%	8810
Q32: Your age:	24 or under	11%	14%	28%	33%	14%	1061
	25-44	9%	14%	28%	35%	15%	3597
	45-64	9%	14%	31%	34%	12%	3576
	65 or over	10%	16%	33%	32%	9%	594
	Total	9%	14%	30%	34%	13%	8828

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

		Q19a: How much do you support "Closed seasons on ducks with lower population levels so the overall season can be long for more abundant ducks?"					
		Strongly support	Somewhat support	Unsure	Somewhat oppose	Strongly oppose	Total
Q5: Over last 5 yrs, days usually hunted ducks per year?	5 or less	34%	39%	18%	8%	3%	1616
	6 to 10	36%	38%	15%	8%	2%	2743
	11 to 20	41%	36%	11%	8%	4%	2998
	21 to 30	44%	30%	13%	9%	4%	1666
	More than 30	44%	33%	10%	7%	7%	1091
	Total	39%	36%	14%	8%	4%	10114
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	34%	37%	13%	10%	6%	1324
	About right	40%	36%	13%	8%	3%	7187
	Too high	51%	28%	8%	9%	4%	795
	No opinion	23%	40%	28%	7%	2%	635
	Total	39%	36%	13%	8%	4%	9940
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	41%	36%	12%	7%	4%	3465
	About right	39%	36%	13%	9%	3%	5869
	Too long	34%	36%	12%	12%	5%	321
	No opinion	24%	34%	33%	6%	3%	368
	Total	39%	36%	13%	8%	4%	10023
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	<6 ducks	41%	38%	14%	5%	3%	816
	6-10 ducks	36%	38%	16%	8%	2%	1235
	11-20 ducks	41%	35%	14%	8%	2%	2635
	21-50 ducks	40%	36%	11%	8%	4%	3012
	> 50 ducks	43%	32%	8%	8%	9%	1177
	Total	40%	36%	13%	8%	4%	8875
q27: Your view of motorized spinning-wing decoys?	Be allowed	37%	36%	14%	9%	4%	5203
	Not be allowed	48%	31%	10%	8%	3%	2317
	No opinion	35%	39%	17%	7%	3%	2358
	Total	39%	35%	14%	8%	4%	9878
Q29: Do you access the internet to look up duck hunting information?	Frequently	46%	32%	9%	9%	5%	1986
	Once in a while	37%	38%	13%	8%	3%	4930
	Not at all	38%	34%	17%	7%	4%	3156
	Total	39%	36%	13%	8%	4%	10072
Q30: \$\$ you spend on duck hunting each year?	\$250 or less	37%	37%	18%	7%	2%	3493
	\$251-\$1000	39%	36%	13%	8%	3%	4528
	\$1001-\$5000	43%	33%	8%	8%	7%	1747
	Over \$5000	45%	22%	9%	12%	12%	260
	Total	39%	36%	14%	8%	4%	10027
Q32: Your age:	24 or under	30%	38%	19%	9%	4%	1211
	25-44	37%	37%	15%	8%	3%	4125
	45-64	43%	34%	11%	8%	4%	4029
	65 or over	46%	31%	11%	8%	4%	684
	Total	39%	36%	14%	8%	4%	10048

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

		Q19b: How much do you support "A shorter season for all ducks to meet needs of ducks with lower population levels?"					
		Strongly support	Somewhat support	Unsure	Somewhat oppose	Strongly oppose	Total
Q5: Over last 5 yrs, days usually hunted ducks per year?	5 or less	9%	15%	20%	35%	21%	1616
	6 to 10	7%	14%	18%	36%	25%	2732
	11 to 20	7%	13%	14%	32%	33%	3006
	21 to 30	8%	14%	15%	27%	36%	1667
	More than 30	11%	10%	15%	25%	39%	1088
	Total	8%	13%	17%	32%	30%	10108
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	4%	11%	14%	32%	39%	1322
	About right	7%	13%	16%	33%	31%	7182
	Too high	24%	19%	10%	24%	22%	795
	No opinion	5%	11%	35%	32%	17%	636
	Total	8%	13%	17%	32%	30%	9935
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	5%	8%	15%	32%	41%	3465
	About right	7%	16%	17%	34%	27%	5866
	Too long	44%	31%	9%	11%	5%	320
	No opinion	9%	10%	41%	29%	12%	366
	Total	8%	13%	17%	32%	30%	10017
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	<6 ducks	11%	17%	20%	33%	18%	814
	6-10 ducks	7%	16%	18%	39%	19%	1235
	11-20 ducks	8%	15%	17%	32%	28%	2633
	21-50 ducks	7%	12%	14%	32%	35%	3014
	> 50 ducks	8%	10%	12%	26%	45%	1176
	Total	8%	14%	16%	32%	31%	8871
q27: Your view of motorized spinning-wing decoys?	Be allowed	5%	11%	15%	33%	35%	5204
	Not be allowed	14%	16%	13%	30%	27%	2313
	No opinion	7%	16%	22%	31%	24%	2361
	Total	8%	13%	16%	32%	30%	9878
Q29: Do you access the internet to look up duck hunting information?	Frequently	9%	12%	11%	29%	39%	1985
	Once in a while	7%	14%	17%	33%	29%	4933
	Not at all	9%	14%	20%	32%	26%	3151
	Total	8%	13%	16%	32%	30%	10069
Q30: \$\$ you spend on duck hunting each year?	\$250 or less	8%	15%	21%	33%	23%	3487
	\$251-\$1000	7%	14%	16%	33%	30%	4531
	\$1001-\$5000	9%	10%	10%	29%	42%	1745
	Over \$5000	11%	8%	10%	23%	49%	260
	Total	8%	13%	17%	32%	30%	10024
Q32: Your age:	24 or under	6%	14%	22%	31%	27%	1217
	25-44	6%	14%	16%	33%	30%	4121
	45-64	9%	13%	15%	31%	32%	4024
	65 or over	13%	13%	17%	31%	26%	681
	Total	8%	13%	16%	32%	30%	10044

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

		Q19c: How much do you support "Shorter seasons for ducks with lower population levels within a longer season for abundant ducks?"					
		Strongly support	Somewhat support	Unsure	Somewhat oppose	Strongly oppose	Total
Q5: Over last 5 yrs, days usually hunted ducks per year?	5 or less	34%	42%	13%	8%	3%	1618
	6 to 10	40%	40%	10%	7%	3%	2745
	11 to 20	44%	38%	8%	6%	3%	3007
	21 to 30	49%	32%	7%	8%	3%	1664
	More than 30	49%	30%	9%	7%	4%	1091
	Total	43%	37%	9%	7%	3%	10125
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	48%	33%	8%	6%	4%	1326
	About right	43%	38%	9%	7%	3%	7192
	Too high	40%	35%	7%	10%	7%	796
	No opinion	31%	39%	21%	7%	2%	636
	Total	43%	37%	9%	7%	3%	9950
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	54%	32%	7%	5%	3%	3461
	About right	38%	40%	10%	8%	3%	5884
	Too long	30%	34%	11%	17%	8%	321
	No opinion	28%	38%	28%	5%	2%	368
	Total	43%	37%	9%	7%	3%	10034
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	<6 ducks	37%	39%	12%	7%	4%	816
	6-10 ducks	38%	41%	10%	9%	2%	1235
	11-20 ducks	43%	38%	9%	7%	3%	2632
	21-50 ducks	46%	37%	8%	6%	3%	3018
	> 50 ducks	49%	32%	7%	8%	5%	1178
	Total	44%	37%	9%	7%	3%	8880
q27: Your view of motorized spinning-wing decoys?	Be allowed	45%	37%	8%	7%	3%	5212
	Not be allowed	43%	36%	7%	10%	4%	2314
	No opinion	38%	40%	13%	6%	3%	2365
	Total	43%	37%	9%	7%	3%	9891
Q29: Do you access the internet to look up duck hunting information?	Frequently	49%	34%	7%	7%	4%	1986
	Once in a while	42%	39%	9%	7%	2%	4939
	Not at all	39%	37%	12%	7%	4%	3159
	Total	43%	37%	9%	7%	3%	10084
Q30: \$\$ you spend on duck hunting each year?	\$250 or less	39%	38%	13%	7%	3%	3499
	\$251-\$1000	44%	39%	8%	6%	3%	4530
	\$1001-\$5000	48%	34%	6%	9%	3%	1748
	Over \$5000	43%	29%	10%	9%	8%	262
	Total	43%	37%	10%	7%	3%	10039
Q32: Your age:	24 or under	46%	35%	11%	4%	3%	1219
	25-44	42%	39%	9%	7%	2%	4128
	45-64	43%	38%	8%	8%	4%	4028
	65 or over	40%	32%	13%	9%	6%	685
	Total	43%	37%	9%	7%	3%	10060

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

		Q19c: How much do you support "Shorter seasons for ducks with lower population levels within a longer season for abundant ducks?"					
		Strongly support	Somewhat support	Unsure	Somewhat oppose	Strongly oppose	Total
Q5: Over last 5 yrs, days usually hunted ducks per year?	5 or less	34%	42%	13%	8%	3%	1618
	6 to 10	40%	40%	10%	7%	3%	2745
	11 to 20	44%	38%	8%	6%	3%	3007
	21 to 30	49%	32%	7%	8%	3%	1664
	More than 30	49%	30%	9%	7%	4%	1091
	Total	43%	37%	9%	7%	3%	10125
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	48%	33%	8%	6%	4%	1326
	About right	43%	38%	9%	7%	3%	7192
	Too high	40%	35%	7%	10%	7%	796
	No opinion	31%	39%	21%	7%	2%	636
	Total	43%	37%	9%	7%	3%	9950
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	54%	32%	7%	5%	3%	3461
	About right	38%	40%	10%	8%	3%	5884
	Too long	30%	34%	11%	17%	8%	321
	No opinion	28%	38%	28%	5%	2%	368
	Total	43%	37%	9%	7%	3%	10034
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	<6 ducks	37%	39%	12%	7%	4%	816
	6-10 ducks	38%	41%	10%	9%	2%	1235
	11-20 ducks	43%	38%	9%	7%	3%	2632
	21-50 ducks	46%	37%	8%	6%	3%	3018
	> 50 ducks	49%	32%	7%	8%	5%	1178
	Total	44%	37%	9%	7%	3%	8880
q27: Your view of motorized spinning-wing decoys?	Be allowed	45%	37%	8%	7%	3%	5212
	Not be allowed	43%	36%	7%	10%	4%	2314
	No opinion	38%	40%	13%	6%	3%	2365
	Total	43%	37%	9%	7%	3%	9891
Q29: Do you access the internet to look up duck hunting information?	Frequently	49%	34%	7%	7%	4%	1986
	Once in a while	42%	39%	9%	7%	2%	4939
	Not at all	39%	37%	12%	7%	4%	3159
	Total	43%	37%	9%	7%	3%	10084
Q30: \$\$ you spend on duck hunting each year?	\$250 or less	39%	38%	13%	7%	3%	3499
	\$251-\$1000	44%	39%	8%	6%	3%	4530
	\$1001-\$5000	48%	34%	6%	9%	3%	1748
	Over \$5000	43%	29%	10%	9%	8%	262
	Total	43%	37%	10%	7%	3%	10039
Q32: Your age:	24 or under	46%	35%	11%	4%	3%	1219
	25-44	42%	39%	9%	7%	2%	4128
	45-64	43%	38%	8%	8%	4%	4028
	65 or over	40%	32%	13%	9%	6%	685
	Total	43%	37%	9%	7%	3%	10060

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

		Q19d: How much do you support "Longer season for all ducks, with daily bag limit restrictions for ducks with lower population levels?"					
		Strongly support	Somewhat support	Unsure	Somewhat oppose	Strongly oppose	Total
Q5: Over last 5 yrs, days usually hunted ducks per year?	5 or less	26%	32%	21%	15%	7%	1617
	6 to 10	33%	34%	17%	12%	4%	2740
	11 to 20	40%	31%	13%	10%	6%	3004
	21 to 30	47%	28%	12%	9%	5%	1666
	More than 30	47%	28%	13%	7%	5%	1090
	Total	38%	31%	15%	11%	5%	10118
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	41%	31%	14%	8%	7%	1324
	About right	38%	32%	15%	10%	4%	7187
	Too high	36%	25%	7%	17%	14%	795
	No opinion	24%	30%	28%	13%	5%	635
	Total	38%	31%	15%	11%	5%	9942
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	46%	30%	12%	8%	4%	3460
	About right	35%	33%	16%	12%	5%	5879
	Too long	19%	21%	12%	25%	23%	320
	No opinion	20%	27%	36%	13%	3%	366
	Total	38%	31%	15%	11%	5%	10025
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	<6 ducks	27%	34%	19%	12%	7%	815
	6-10 ducks	32%	30%	20%	13%	5%	1237
	11-20 ducks	35%	33%	15%	13%	5%	2631
	21-50 ducks	42%	32%	12%	9%	4%	3015
	> 50 ducks	52%	25%	9%	8%	7%	1176
	Total	38%	31%	14%	11%	5%	8873
q27: Your view of motorized spinning-wing decoys?	Be allowed	40%	31%	14%	10%	4%	5205
	Not be allowed	37%	29%	12%	13%	8%	2315
	No opinion	32%	33%	19%	12%	4%	2362
	Total	38%	31%	15%	11%	5%	9882
Q29: Do you access the internet to look up duck hunting information?	Frequently	49%	26%	11%	10%	5%	1985
	Once in a while	36%	34%	15%	11%	5%	4933
	Not at all	34%	31%	18%	11%	6%	3156
	Total	38%	31%	15%	11%	5%	10075
Q30: \$\$ you spend on duck hunting each year?	\$250 or less	30%	32%	20%	12%	5%	3495
	\$251-\$1000	39%	32%	13%	10%	5%	4526
	\$1001-\$5000	46%	29%	11%	10%	5%	1749
	Over \$5000	58%	15%	11%	7%	8%	263
	Total	38%	31%	15%	11%	5%	10032
Q32: Your age:	24 or under	39%	27%	19%	10%	5%	1219
	25-44	38%	31%	15%	11%	5%	4124
	45-64	38%	32%	13%	11%	5%	4023
	65 or over	33%	33%	17%	11%	6%	685
	Total	38%	31%	15%	11%	5%	10051

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

		Q20: Which one of the 4 options listed in question 19 would you most prefer?					Total
		Q19A, Closed seasons on some but longer overall	Q19B, Shorter seasons to meet needs of low-pop ducks	Q19C, Shorter low-pop seasons within longer season	Q19D. Longer seasons & low-pop bag restrictions		
Q5: Over last 5 yrs, days usually hunted ducks per year?	5 or less	21%	10%	28%	41%	1593	
	6 to 10	19%	6%	30%	45%	2708	
	11 to 20	20%	6%	27%	48%	2989	
	21 to 30	19%	4%	26%	50%	1654	
	More than 30	18%	6%	26%	51%	1089	
	Total	20%	6%	27%	47%	10032	
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	15%	3%	31%	50%	1321	
	About right	20%	5%	28%	48%	7134	
	Too high	23%	22%	19%	35%	790	
	No opinion	23%	8%	26%	44%	621	
	Total	20%	6%	28%	47%	9866	
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	17%	2%	29%	52%	3444	
	About right	21%	7%	27%	45%	5825	
	Too long	16%	46%	18%	20%	319	
	No opinion	20%	7%	29%	44%	355	
	Total	20%	6%	28%	47%	9943	
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	<6 ducks	24%	10%	27%	39%	810	
	6-10 ducks	22%	8%	29%	41%	1225	
	11-20 ducks	21%	7%	30%	43%	2603	
	21-50 ducks	18%	4%	27%	51%	3006	
	> 50 ducks	16%	6%	23%	55%	1170	
	Total	20%	6%	28%	46%	8814	
q27: Your view of motorized spinning-wing decoys?	Be allowed	16%	4%	29%	51%	5170	
	Not be allowed	26%	10%	26%	39%	2300	
	No opinion	22%	7%	26%	45%	2338	
	Total	20%	6%	28%	47%	9808	
Q29: Do you access the internet to look up duck hunting information?	Frequently	18%	5%	27%	50%	1976	
	Once in a while	20%	6%	28%	47%	4907	
	Not at all	21%	8%	27%	44%	3112	
	Total	20%	6%	27%	47%	9996	
Q30: \$\$ you spend on duck hunting each year?	\$250 or less	21%	7%	29%	42%	3454	
	\$251-\$1000	20%	5%	28%	47%	4505	
	\$1001-\$5000	18%	6%	24%	52%	1737	
	Over \$5000	19%	5%	17%	59%	258	
	Total	20%	6%	28%	47%	9954	
Q32: Your age:	24 or under	13%	5%	34%	47%	1212	
	25-44	19%	5%	29%	46%	4100	
	45-64	21%	7%	24%	47%	3990	
	65 or over	27%	8%	23%	42%	671	
	Total	20%	6%	28%	47%	9973	

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

		How small a bag before no longer hunt?				
		5-6 ducks	3-4 ducks	1-2 ducks	'Any' size	Total
Q5: Over last 5 yrs, days usually hunted ducks per year?	5 or less	5%	29%	33%	33%	1605
	6 to 10	4%	34%	29%	32%	2716
	11 to 20	5%	31%	27%	37%	2998
	21 to 30	6%	32%	24%	38%	1669
	More than 30	7%	27%	21%	46%	1085
	Total	5%	31%	27%	36%	10072
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	12%	42%	22%	24%	1314
	About right	4%	32%	29%	35%	7163
	Too high	0%	12%	32%	56%	794
	No opinion	5%	28%	20%	47%	630
	Total	5%	31%	27%	36%	9901
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	7%	35%	25%	32%	3454
	About right	5%	30%	28%	37%	5845
	Too long	0%	18%	33%	49%	322
	No opinion	5%	23%	22%	50%	362
	Total	5%	31%	27%	36%	9982
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	<6 ducks	4%	14%	21%	61%	810
	6-10 ducks	3%	24%	34%	39%	1222
	11-20 ducks	4%	32%	33%	32%	2626
	21-50 ducks	7%	38%	27%	29%	3013
	> 50 ducks	9%	40%	20%	31%	1170
	Total	5%	32%	28%	34%	8842
q27: Your view of motorized spinning-wing decoys?	Be allowed	7%	35%	26%	32%	5179
	Not be allowed	4%	27%	30%	39%	2313
	No opinion	4%	26%	27%	43%	2359
	Total	5%	31%	27%	36%	9851
Q29: Do you access the internet to look up duck hunting information?	Frequently	4%	33%	25%	38%	1978
	Once in a while	5%	30%	29%	36%	4921
	Not at all	5%	33%	27%	35%	3136
	Total	5%	31%	27%	36%	10034
Q30: \$\$ you spend on duck hunting each year?	\$250 or less	5%	27%	29%	39%	3471
	\$251-\$1000	5%	33%	28%	34%	4519
	\$1001-\$5000	5%	34%	24%	37%	1740
	Over \$5000	7%	39%	21%	33%	263
	Total	5%	31%	27%	36%	9993
Q32: Your age:	24 or under	8%	27%	23%	42%	1211
	25-44	5%	33%	26%	36%	4109
	45-64	5%	31%	30%	34%	4012
	65 or over	4%	30%	31%	35%	682
	Total	5%	31%	27%	36%	10014

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

		Q22: What do you think the daily bag limit for hen mallards should be?					
		0	1 hen	2 hens	3 or more hens	No opinion	Total
Q5: Over last 5 yrs, days usually hunted ducks per year?	5 or less	5%	44%	32%	6%	13%	1614
	6 to 10	4%	43%	37%	5%	11%	2741
	11 to 20	8%	44%	36%	4%	7%	2988
	21 to 30	7%	48%	35%	5%	5%	1659
	More than 30	10%	47%	32%	6%	5%	1088
	Total	7%	45%	35%	5%	9%	10090
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	5%	21%	45%	18%	11%	1312
	About right	6%	48%	36%	3%	7%	7180
	Too high	20%	62%	14%	1%	4%	789
	No opinion	6%	36%	25%	4%	29%	631
	Total	7%	45%	35%	5%	9%	9913
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	6%	36%	41%	8%	9%	3449
	About right	7%	50%	33%	3%	7%	5857
	Too long	15%	58%	17%	2%	7%	323
	No opinion	5%	33%	27%	4%	31%	367
	Total	7%	45%	35%	5%	9%	9995
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	<6 ducks	8%	47%	28%	4%	14%	814
	6-10 ducks	5%	49%	34%	5%	7%	1226
	11-20 ducks	5%	48%	36%	4%	7%	2622
	21-50 ducks	8%	42%	38%	6%	6%	3006
	> 50 ducks	9%	40%	38%	8%	5%	1169
	Total	7%	45%	36%	5%	7%	8837
q27: Your view of motorized spinning-wing decoys?	Be allowed	5%	40%	41%	6%	7%	5216
	Not be allowed	12%	54%	26%	3%	5%	2314
	No opinion	5%	44%	32%	5%	14%	2374
	Total	7%	45%	35%	5%	8%	9905
Q29: Do you access the internet to look up duck hunting information?	Frequently	8%	47%	33%	6%	7%	1987
	Once in a while	6%	45%	36%	4%	9%	4938
	Not at all	7%	43%	36%	5%	9%	3177
	Total	7%	45%	35%	5%	9%	10102
Q30: \$\$ you spend on duck hunting each year?	\$250 or less	4%	42%	38%	5%	11%	3500
	\$251-\$1000	7%	46%	34%	5%	8%	4547
	\$1001-\$5000	9%	46%	34%	4%	7%	1748
	Over \$5000	12%	50%	27%	7%	5%	262
	Total	7%	45%	35%	5%	9%	10056
Q32: Your age:	24 or under	5%	36%	40%	9%	11%	1219
	25-44	6%	44%	37%	5%	8%	4125
	45-64	7%	48%	33%	4%	8%	4044
	65 or over	12%	47%	29%	3%	9%	690
	Total	7%	45%	35%	5%	9%	10077

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

		Q23: Would you be willing to accept an overall smaller bag limit to have fewer species and sex bag limit restrictions?			
		Yes	No	No opinion	Total
Q5: Over last 5 yrs, days usually hunted ducks per year?	5 or less	37%	32%	31%	1613
	6 to 10	35%	41%	24%	2739
	11 to 20	34%	45%	22%	3001
	21 to 30	29%	50%	20%	1657
	More than 30	29%	51%	20%	1086
	Total	33%	43%	24%	10097
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	16%	62%	22%	1319
	About right	32%	45%	23%	7179
	Too high	75%	14%	10%	793
	No opinion	28%	26%	45%	631
	Total	33%	43%	24%	9922
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	27%	49%	24%	3460
	About right	35%	43%	22%	5854
	Too long	73%	16%	11%	324
	No opinion	27%	19%	54%	365
	Total	33%	43%	23%	10004
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	<6 ducks	46%	28%	26%	814
	6-10 ducks	40%	31%	29%	1226
	11-20 ducks	36%	40%	24%	2622
	21-50 ducks	28%	51%	20%	3012
	> 50 ducks	27%	60%	14%	1170
	Total	34%	44%	22%	8843
q27: Your view of motorized spinning-wing decoys?	Be allowed	30%	47%	23%	5221
	Not be allowed	43%	41%	16%	2319
	No opinion	32%	36%	32%	2374
	Total	33%	43%	23%	9914
Q29: Do you access the internet to look up duck hunting information?	Frequently	36%	46%	18%	1990
	Once in a while	32%	44%	24%	4943
	Not at all	34%	41%	26%	3177
	Total	33%	43%	24%	10110
Q30: \$\$ you spend on duck hunting each year?	\$250 or less	33%	37%	30%	3501
	\$251-\$1000	33%	45%	22%	4553
	\$1001-\$5000	34%	48%	18%	1748
	Over \$5000	26%	60%	14%	263
	Total	33%	43%	24%	10066
Q32: Your age:	24 or under	25%	44%	30%	1217
	25-44	33%	43%	24%	4136
	45-64	35%	44%	21%	4044
	65 or over	38%	43%	20%	689
	Total	33%	43%	24%	10087

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

		Q24: In the past, changes in season lengths were necessary to respond to changing duck populations. In the event of future changes, which would you prefer?			
		Most seasons either max or min length	Most seasons intermediate length	I'm not sure	Total
Q5: Over last 5 yrs, days usually hunted ducks per year?	5 or less	13%	33%	54%	1589
	6 to 10	18%	31%	51%	2713
	11 to 20	20%	31%	49%	2972
	21 to 30	20%	27%	52%	1649
	More than 30	21%	27%	51%	1066
	Total	18%	30%	51%	9989
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	28%	22%	50%	1300
	About right	17%	31%	51%	7114
	Too high	16%	44%	40%	782
	No opinion	11%	19%	70%	624
	Total	18%	30%	51%	9820
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	25%	24%	51%	3420
	About right	16%	33%	51%	5811
	Too long	13%	54%	33%	316
	No opinion	7%	16%	77%	359
	Total	19%	30%	51%	9907
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	<6 ducks	16%	29%	55%	804
	6-10 ducks	15%	35%	50%	1214
	11-20 ducks	18%	33%	48%	2598
	21-50 ducks	21%	29%	50%	2984
	> 50 ducks	22%	32%	46%	1157
	Total	19%	31%	50%	8758
q27: Your view of motorized spinning-wing decoys?	Be allowed	21%	29%	49%	5181
	Not be allowed	18%	36%	46%	2297
	No opinion	13%	27%	60%	2346
	Total	19%	30%	51%	9824
Q29: Do you access the internet to look up duck hunting information?	Frequently	23%	35%	42%	1965
	Once in a while	17%	31%	52%	4901
	Not at all	18%	26%	56%	3143
	Total	18%	30%	51%	10010
Q30: \$\$ you spend on duck hunting each year?	\$250 or less	15%	28%	57%	3480
	\$251-\$1000	20%	31%	49%	4524
	\$1001-\$5000	21%	31%	47%	1718
	Over \$5000	21%	40%	39%	254
	Total	18%	30%	51%	9977
Q32: Your age:	24 or under	18%	27%	55%	1215
	25-44	18%	30%	51%	4084
	45-64	19%	32%	50%	4003
	65 or over	18%	30%	52%	681
	Total	18%	30%	51%	9984

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

		Q25: How does changing bag limits and season lengths from year to year affect your duck hunting satisfaction?			
		Increases satisfaction	No effect	Decreases satisfaction	Total
Q5: Over last 5 yrs, days usually hunted ducks per year?	5 or less	4%	73%	23%	1578
	6 to 10	5%	68%	27%	2687
	11 to 20	6%	67%	27%	2946
	21 to 30	6%	65%	29%	1634
	More than 30	5%	64%	31%	1061
	Total	5%	68%	27%	9905
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	7%	43%	51%	1296
	About right	5%	70%	25%	7045
	Too high	8%	79%	13%	783
	No opinion	3%	75%	22%	615
	Total	5%	67%	27%	9740
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	8%	54%	38%	3404
	About right	4%	74%	22%	5745
	Too long	6%	80%	14%	320
	No opinion	2%	80%	18%	356
	Total	5%	67%	27%	9825
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	<6 ducks	2%	85%	12%	793
	6-10 ducks	5%	74%	22%	1215
	11-20 ducks	6%	71%	24%	2577
	21-50 ducks	7%	61%	32%	2960
	> 50 ducks	7%	54%	39%	1149
	Total	6%	67%	27%	8694
q27: Your view of motorized spinning-wing decoys?	Be allowed	6%	63%	31%	5200
	Not be allowed	6%	71%	23%	2324
	No opinion	4%	74%	23%	2374
	Total	5%	68%	27%	9898
Q29: Do you access the internet to look up duck hunting information?	Frequently	7%	66%	27%	1951
	Once in a while	5%	68%	27%	4856
	Not at all	5%	68%	27%	3118
	Total	5%	68%	27%	9925
Q30: \$\$ you spend on duck hunting each year?	\$250 or less	4%	72%	23%	3461
	\$251-\$1000	6%	66%	28%	4448
	\$1001-\$5000	5%	64%	31%	1717
	Over \$5000	5%	57%	38%	256
	Total	5%	68%	27%	9882
Q32: Your age:	24 or under	7%	66%	27%	1192
	25-44	6%	69%	25%	4080
	45-64	5%	66%	29%	3961
	65 or over	3%	73%	24%	668
	Total	5%	68%	27%	9901

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

		Q26: For the most recent year you hunted ducks, how often did you use a motorized spinning-wing decoy?			
		Always	Sometimes	Never	Total
Q5: Over last 5 yrs, days usually hunted ducks per year?	5 or less	7%	24%	69%	1575
	6 to 10	11%	35%	55%	2678
	11 to 20	15%	45%	41%	2930
	21 to 30	15%	49%	36%	1629
	More than 30	16%	52%	32%	1052
	Total	13%	40%	47%	9864
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	12%	40%	48%	1292
	About right	13%	41%	46%	7019
	Too high	14%	42%	44%	778
	No opinion	9%	26%	65%	612
	Total	13%	40%	47%	9702
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	14%	41%	45%	3398
	About right	12%	40%	48%	5714
	Too long	15%	43%	42%	315
	No opinion	8%	27%	65%	355
	Total	13%	40%	47%	9781
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	<6 ducks	7%	28%	65%	793
	6-10 ducks	10%	25%	65%	1207
	11-20 ducks	9%	38%	52%	2563
	21-50 ducks	15%	47%	38%	2953
	> 50 ducks	21%	55%	24%	1142
	Total	13%	41%	47%	8658
q27: Your view of motorized spinning-wing decoys?	Be allowed	20%	51%	30%	5190
	Not be allowed	6%	27%	67%	2307
	No opinion	4%	29%	67%	2370
	Total	13%	40%	47%	9867
Q29: Do you access the internet to look up duck hunting information?	Frequently	18%	47%	34%	1947
	Once in a while	13%	41%	46%	4839
	Not at all	9%	33%	58%	3103
	Total	13%	40%	47%	9888
Q30: \$\$ you spend on duck hunting each year?	\$250 or less	8%	28%	65%	3443
	\$251-\$1000	13%	44%	43%	4434
	\$1001-\$5000	18%	53%	29%	1715
	Over \$5000	22%	56%	23%	254
	Total	13%	40%	47%	9846
Q32: Your age:	24 or under	17%	35%	48%	1193
	25-44	13%	44%	43%	4070
	45-64	12%	39%	50%	3931
	65 or over	10%	31%	58%	668
	Total	13%	40%	47%	9862

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

		q27: Your view of motorized spinning-wing			
		Be allowed	Not be allowed	No opinion	Total
Q5: Over last 5 yrs, days usually hunted ducks per year?	5 or less	43%	25%	32%	1582
	6 to 10	53%	22%	26%	2690
	11 to 20	57%	20%	23%	2940
	21 to 30	53%	27%	20%	1637
	More than 30	54%	28%	18%	1053
	Total	53%	23%	24%	9902
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	68%	12%	19%	1295
	About right	53%	23%	24%	7047
	Too high	30%	50%	20%	781
	No opinion	38%	18%	44%	614
	Total	53%	23%	24%	9738
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	62%	16%	22%	3410
	About right	50%	27%	23%	5739
	Too long	27%	52%	21%	317
	No opinion	32%	19%	49%	352
	Total	53%	23%	24%	9819
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	<6 ducks	46%	25%	29%	788
	6-10 ducks	46%	26%	28%	1213
	11-20 ducks	52%	23%	25%	2582
	21-50 ducks	59%	21%	20%	2965
	> 50 ducks	58%	27%	16%	1148
	Total	54%	24%	23%	8697
q27: Your view of motorized spinning-wing decoys?	Be allowed	100%	0%	0%	
	Not be allowed	0%	100%	0%	
	No opinion	0%	0%	100%	
	Total				9943
Q29: Do you access the internet to look up duck hunting information?	Frequently	57%	24%	18%	1955
	Once in a while	54%	23%	24%	4853
	Not at all	48%	24%	28%	3117
	Total	53%	23%	24%	9924
Q30: \$\$ you spend on duck hunting each year?	\$250 or less	47%	23%	30%	3453
	\$251-\$1000	56%	22%	22%	4456
	\$1001-\$5000	56%	26%	18%	1713
	Over \$5000	54%	28%	19%	256
	Total	53%	23%	24%	9878
Q32: Your age:	24 or under	57%	17%	26%	1188
	25-44	56%	20%	24%	4084
	45-64	49%	28%	23%	3959
	65 or over	41%	30%	29%	667
	Total	53%	23%	24%	9899

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

		Q28a: Your Confidence in Waterfowl biologists?					
		High	Medium	Low	None	Don't know	Total
Q5: Over last 5 yrs, days usually hunted ducks per year?	5 or less	42%	41%	10%	3%	5%	1592
	6 to 10	42%	42%	10%	2%	4%	2709
	11 to 20	42%	43%	9%	3%	3%	2976
	21 to 30	39%	42%	11%	4%	4%	1648
	More than 30	39%	41%	13%	3%	4%	1071
	Total	41%	42%	10%	3%	4%	9995
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	33%	43%	14%	5%	5%	1301
	About right	43%	42%	9%	2%	3%	7114
	Too high	48%	38%	9%	3%	3%	783
	No opinion	33%	41%	10%	6%	11%	625
	Total	41%	42%	10%	3%	4%	9823
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	38%	42%	12%	4%	4%	3431
	About right	44%	41%	9%	2%	3%	5794
	Too long	34%	50%	10%	4%	1%	319
	No opinion	29%	45%	9%	5%	12%	363
	Total	41%	42%	10%	3%	4%	9907
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	<6 ducks	51%	37%	8%	1%	4%	809
	6-10 ducks	45%	40%	8%	3%	4%	1220
	11-20 ducks	43%	43%	9%	2%	3%	2594
	21-50 ducks	39%	43%	12%	3%	3%	2971
	> 50 ducks	36%	44%	13%	5%	3%	1164
	Total	42%	42%	10%	3%	3%	8757
q27: Your view of motorized spinning-wing decoys?	Be allowed	39%	43%	11%	3%	4%	5178
	Not be allowed	45%	38%	10%	4%	2%	2300
	No opinion	40%	42%	9%	2%	6%	2344
	Total	41%	42%	10%	3%	4%	9822
Q29: Do you access the internet to look up duck hunting information?	Frequently	45%	40%	11%	3%	2%	1988
	Once in a while	42%	43%	9%	2%	4%	4901
	Not at all	38%	42%	11%	4%	6%	3131
	Total	41%	42%	10%	3%	4%	10020
Q30: \$\$ you spend on duck hunting each year?	\$250 or less	41%	40%	10%	3%	6%	3468
	\$251-\$1000	41%	43%	10%	2%	4%	4516
	\$1001-\$5000	41%	42%	11%	4%	2%	1732
	Over \$5000	36%	41%	15%	7%	1%	260
	Total	41%	42%	10%	3%	4%	9976
Q32: Your age:	24 or under	40%	38%	11%	3%	8%	1212
	25-44	41%	43%	10%	3%	4%	4110
	45-64	41%	43%	11%	3%	3%	3985
	65 or over	42%	37%	11%	3%	7%	688
	Total	41%	42%	10%	3%	4%	9994

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

		Q28b: Your Confidence in Commercial/Business interests?					
		High	Medium	Low	None	Don't know	Total
Q5: Over last 5 yrs, days usually hunted ducks per year?	5 or less	2%	12%	47%	34%	5%	1581
	6 to 10	1%	13%	45%	36%	5%	2697
	11 to 20	3%	15%	42%	34%	6%	2966
	21 to 30	3%	15%	41%	36%	5%	1643
	More than 30	4%	18%	37%	36%	6%	1066
	Total	2%	14%	43%	35%	5%	9953
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	3%	17%	40%	34%	6%	1305
	About right	2%	15%	43%	35%	5%	7070
	Too high	2%	11%	44%	40%	4%	785
	No opinion	2%	8%	44%	34%	13%	623
	Total	2%	14%	43%	35%	5%	9783
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	3%	14%	42%	35%	6%	3415
	About right	2%	15%	44%	35%	4%	5767
	Too long	1%	9%	39%	47%	4%	317
	No opinion	1%	10%	41%	35%	13%	365
	Total	2%	14%	43%	35%	5%	9865
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	<6 ducks	2%	14%	45%	35%	4%	802
	6-10 ducks	2%	12%	46%	35%	5%	1214
	11-20 ducks	2%	15%	45%	35%	4%	2571
	21-50 ducks	3%	15%	43%	34%	5%	2976
	> 50 ducks	3%	18%	40%	36%	4%	1150
	Total	2%	15%	44%	35%	5%	8713
q27: Your view of motorized spinning-wing decoys?	Be allowed	3%	16%	42%	33%	5%	5156
	Not be allowed	1%	13%	42%	41%	3%	2290
	No opinion	1%	11%	45%	34%	8%	2331
	Total	2%	14%	43%	35%	5%	9778
Q29: Do you access the internet to look up duck hunting information?	Frequently	3%	15%	45%	34%	3%	1972
	Once in a while	2%	14%	44%	35%	5%	4882
	Not at all	2%	13%	40%	37%	7%	3122
	Total	2%	14%	43%	35%	5%	9976
Q30: \$\$ you spend on duck hunting each year?	\$250 or less	2%	12%	44%	35%	7%	3466
	\$251-\$1000	2%	13%	43%	37%	5%	4500
	\$1001-\$5000	3%	19%	40%	35%	3%	1710
	Over \$5000	4%	21%	45%	27%	2%	262
	Total	2%	14%	43%	35%	5%	9937
Q32: Your age:	24 or under	2%	15%	38%	34%	10%	1202
	25-44	2%	14%	42%	38%	4%	4100
	45-64	2%	15%	45%	34%	4%	3981
	65 or over	1%	12%	47%	31%	9%	669
	Total	2%	14%	43%	35%	5%	9952

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

		Q28c: Your Confidence in Legislators?					
		High	Medium	Low	None	Don't know	Total
Q5: Over last 5 yrs, days usually hunted ducks per year?	5 or less	1%	9%	44%	42%	4%	1590
	6 to 10	1%	10%	46%	40%	4%	2687
	11 to 20	2%	9%	44%	42%	4%	2954
	21 to 30	2%	12%	40%	42%	4%	1629
	More than 30	3%	9%	41%	41%	5%	1070
	Total	2%	10%	43%	41%	4%	9930
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	1%	9%	41%	44%	4%	1300
	About right	2%	11%	45%	39%	4%	7063
	Too high	1%	7%	44%	47%	2%	782
	No opinion	1%	6%	34%	48%	10%	614
	Total	2%	10%	43%	41%	4%	9759
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	2%	10%	40%	43%	5%	3411
	About right	1%	10%	46%	39%	3%	5751
	Too long	0%	6%	39%	52%	2%	318
	No opinion	0%	7%	38%	42%	12%	362
	Total	2%	10%	43%	41%	4%	9842
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	<6 ducks	2%	9%	46%	40%	4%	788
	6-10 ducks	1%	9%	46%	39%	5%	1217
	11-20 ducks	1%	11%	42%	42%	4%	2582
	21-50 ducks	2%	11%	44%	40%	3%	2949
	> 50 ducks	2%	10%	40%	44%	3%	1160
	Total	2%	10%	43%	41%	3%	8697
q27: Your view of motorized spinning-wing decoys?	Be allowed	1%	11%	43%	41%	4%	5117
	Not be allowed	1%	9%	43%	44%	2%	2299
	No opinion	2%	9%	45%	39%	5%	2344
	Total	1%	10%	43%	41%	4%	9760
Q29: Do you access the internet to look up duck hunting information?	Frequently	2%	12%	45%	40%	2%	1963
	Once in a while	2%	9%	44%	41%	4%	4884
	Not at all	1%	10%	41%	42%	6%	3105
	Total	2%	10%	43%	41%	4%	9952
Q30: \$\$ you spend on duck hunting each year?	\$250 or less	2%	10%	44%	39%	6%	3449
	\$251-\$1000	1%	10%	43%	43%	4%	4472
	\$1001-\$5000	2%	9%	45%	42%	2%	1728
	Over \$5000	0%	10%	42%	47%	1%	261
	Total	2%	10%	43%	41%	4%	9910
Q32: Your age:	24 or under	2%	13%	36%	37%	12%	1213
	25-44	2%	10%	43%	43%	3%	4078
	45-64	1%	9%	46%	42%	3%	3961
	65 or over	2%	9%	47%	37%	5%	675
	Total	2%	10%	43%	41%	4%	9928

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

		Q28d: Your Confidence in Experienced Duck Hunters?					
		High	Medium	Low	None	Don't know	Total
Q5: Over last 5 yrs, days usually hunted ducks per year?	5 or less	52%	39%	6%	1%	2%	1589
	6 to 10	55%	37%	5%	0%	2%	2700
	11 to 20	59%	34%	5%	1%	2%	2972
	21 to 30	62%	31%	4%	1%	2%	1628
	More than 30	66%	28%	4%	1%	1%	1071
	Total	58%	35%	5%	1%	2%	9960
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	66%	27%	4%	1%	2%	1304
	About right	58%	35%	5%	1%	1%	7074
	Too high	49%	40%	9%	1%	0%	787
	No opinion	51%	36%	6%	1%	6%	628
	Total	58%	35%	5%	1%	2%	9793
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	63%	30%	4%	1%	2%	3415
	About right	56%	36%	5%	1%	1%	5769
	Too long	49%	40%	8%	3%	0%	323
	No opinion	44%	42%	5%	1%	8%	364
	Total	58%	35%	5%	1%	2%	9871
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	<6 ducks	53%	39%	6%	1%	2%	806
	6-10 ducks	53%	39%	6%	0%	2%	1217
	11-20 ducks	56%	37%	5%	1%	1%	2585
	21-50 ducks	63%	31%	4%	0%	1%	2963
	> 50 ducks	65%	28%	4%	2%	1%	1147
	Total	59%	35%	5%	1%	1%	8718
q27: Your view of motorized spinning-wing decoys?	Be allowed	63%	31%	3%	1%	2%	5156
	Not be allowed	52%	38%	7%	1%	1%	2283
	No opinion	52%	38%	6%	1%	3%	2352
	Total	58%	34%	5%	1%	2%	9791
Q29: Do you access the internet to look up duck hunting information?	Frequently	63%	32%	4%	0%	0%	1968
	Once in a while	59%	35%	4%	1%	2%	4909
	Not at all	53%	36%	6%	1%	3%	3105
	Total	58%	35%	5%	1%	2%	9981
Q30: \$\$ you spend on duck hunting each year?	\$250 or less	54%	37%	6%	1%	3%	3453
	\$251-\$1000	59%	34%	5%	1%	1%	4503
	\$1001-\$5000	61%	33%	5%	1%	1%	1728
	Over \$5000	64%	31%	3%	1%	1%	257
	Total	58%	35%	5%	1%	2%	9940
Q32: Your age:	24 or under	65%	26%	4%	1%	4%	1211
	25-44	59%	34%	5%	0%	1%	4106
	45-64	55%	38%	5%	1%	1%	3972
	65 or over	53%	37%	6%	1%	4%	668
	Total	58%	35%	5%	1%	2%	9957

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

		Q28e: Your Confidence in All duck Hunters?					
		High	Medium	Low	None	Don't know	Total
Q5: Over last 5 yrs, days usually hunted ducks per year?	5 or less	11%	53%	31%	2%	4%	1599
	6 to 10	14%	52%	29%	2%	3%	2700
	11 to 20	12%	53%	30%	3%	2%	2974
	21 to 30	15%	50%	29%	3%	3%	1629
	More than 30	17%	45%	33%	4%	2%	1073
	Total	13%	51%	30%	3%	3%	9975
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	19%	53%	23%	2%	3%	1301
	About right	13%	53%	30%	3%	2%	7096
	Too high	7%	43%	44%	5%	1%	785
	No opinion	16%	44%	29%	4%	8%	622
	Total	13%	51%	30%	3%	3%	9804
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	18%	51%	27%	2%	3%	3428
	About right	11%	52%	32%	3%	2%	5771
	Too long	6%	45%	41%	5%	2%	323
	No opinion	11%	52%	23%	3%	11%	363
	Total	13%	51%	30%	3%	3%	9885
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	<6 ducks	12%	51%	31%	3%	3%	803
	6-10 ducks	11%	55%	30%	1%	3%	1214
	11-20 ducks	12%	55%	28%	3%	2%	2587
	21-50 ducks	15%	50%	30%	2%	2%	2979
	> 50 ducks	16%	45%	33%	5%	2%	1151
	Total	14%	52%	30%	3%	2%	8734
q27: Your view of motorized spinning-wing decoys?	Be allowed	15%	53%	27%	3%	2%	5168
	Not be allowed	10%	48%	36%	4%	2%	2300
	No opinion	12%	49%	31%	2%	4%	2339
	Total	13%	51%	30%	3%	3%	9807
Q29: Do you access the internet to look up duck hunting information?	Frequently	12%	52%	31%	3%	1%	1975
	Once in a while	14%	52%	29%	3%	2%	4900
	Not at all	13%	48%	31%	3%	5%	3121
	Total	13%	51%	30%	3%	3%	9997
Q30: \$\$ you spend on duck hunting each year?	\$250 or less	14%	52%	28%	2%	4%	3458
	\$251-\$1000	14%	52%	29%	3%	2%	4521
	\$1001-\$5000	12%	49%	34%	4%	1%	1713
	Over \$5000	14%	42%	40%	4%	0%	262
	Total	13%	51%	30%	3%	3%	9954
Q32: Your age:	24 or under	19%	48%	25%	3%	5%	1211
	25-44	14%	50%	30%	3%	2%	4096
	45-64	11%	53%	31%	3%	2%	3990
	65 or over	10%	51%	29%	3%	7%	678
	Total	13%	51%	30%	3%	3%	9974

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

		Q28f: Your Confidence in General Public?					
		High	Medium	Low	None	Don't know	Total
Q5: Over last 5 yrs, days usually hunted ducks per year?	5 or less	1%	7%	42%	47%	3%	1593
	6 to 10	1%	7%	43%	45%	4%	2699
	11 to 20	1%	9%	41%	45%	4%	2975
	21 to 30	2%	9%	41%	44%	4%	1640
	More than 30	2%	8%	40%	46%	4%	1074
	Total	1%	8%	42%	45%	4%	9981
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	2%	9%	45%	39%	5%	1299
	About right	1%	8%	42%	46%	3%	7105
	Too high	1%	6%	45%	46%	3%	783
	No opinion	2%	8%	33%	49%	9%	621
	Total	1%	8%	42%	45%	4%	9808
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	2%	8%	40%	45%	4%	3418
	About right	1%	8%	43%	46%	3%	5787
	Too long	1%	8%	38%	49%	4%	323
	No opinion	1%	9%	35%	44%	11%	363
	Total	1%	8%	42%	45%	4%	9891
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	<6 ducks	1%	9%	42%	45%	3%	806
	6-10 ducks	1%	9%	44%	43%	3%	1224
	11-20 ducks	1%	8%	43%	45%	3%	2569
	21-50 ducks	2%	8%	43%	43%	4%	2981
	> 50 ducks	2%	7%	36%	52%	3%	1162
	Total	1%	8%	42%	45%	3%	8743
q27: Your view of motorized spinning-wing decoys?	Be allowed	1%	8%	42%	44%	4%	5160
	Not be allowed	1%	7%	41%	49%	2%	2298
	No opinion	1%	8%	41%	44%	5%	2353
	Total	1%	8%	42%	45%	4%	9812
Q29: Do you access the internet to look up duck hunting information?	Frequently	2%	6%	41%	49%	2%	1972
	Once in a while	1%	8%	42%	45%	3%	4914
	Not at all	1%	9%	41%	43%	5%	3115
	Total	1%	8%	42%	45%	4%	10002
Q30: \$\$ you spend on duck hunting each year?	\$250 or less	1%	10%	43%	41%	5%	3464
	\$251-\$1000	1%	8%	42%	45%	3%	4511
	\$1001-\$5000	1%	5%	37%	53%	3%	1722
	Over \$5000	0%	4%	39%	55%	2%	263
	Total	1%	8%	42%	45%	4%	9960
Q32: Your age:	24 or under	3%	13%	41%	37%	6%	1212
	25-44	1%	8%	42%	45%	3%	4103
	45-64	1%	7%	42%	48%	3%	3983
	65 or over	0%	9%	38%	47%	6%	680
	Total	1%	8%	42%	45%	4%	9978

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

		Q28g: Your Confidence in Commercial Duck Clubs?					
		High	Medium	Low	None	Don't know	Total
Q5: Over last 5 yrs, days usually hunted ducks per year?	5 or less	8%	33%	36%	16%	6%	1589
	6 to 10	11%	34%	35%	16%	4%	2691
	11 to 20	11%	32%	32%	20%	4%	2963
	21 to 30	11%	29%	33%	23%	4%	1640
	More than 30	11%	28%	35%	21%	4%	1073
	Total	11%	32%	34%	19%	5%	9957
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	13%	37%	31%	15%	5%	1297
	About right	11%	32%	34%	19%	4%	7086
	Too high	7%	22%	41%	29%	1%	785
	No opinion	11%	29%	32%	18%	10%	617
	Total	11%	32%	34%	19%	5%	9786
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	13%	33%	33%	17%	4%	3411
	About right	10%	32%	35%	19%	4%	5769
	Too long	7%	17%	39%	34%	2%	324
	No opinion	11%	32%	28%	16%	13%	363
	Total	11%	32%	34%	19%	5%	9868
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	<6 ducks	9%	33%	34%	18%	6%	807
	6-10 ducks	10%	33%	36%	17%	5%	1219
	11-20 ducks	10%	35%	34%	17%	4%	2583
	21-50 ducks	13%	31%	33%	20%	3%	2944
	> 50 ducks	11%	28%	35%	22%	4%	1164
	Total	11%	32%	34%	19%	4%	8718
q27: Your view of motorized spinning-wing decoys?	Be allowed	13%	35%	32%	16%	4%	5149
	Not be allowed	7%	26%	36%	27%	4%	2300
	No opinion	10%	31%	36%	17%	7%	2337
	Total	11%	32%	34%	19%	5%	9786
Q29: Do you access the internet to look up duck hunting information?	Frequently	12%	32%	35%	19%	2%	1978
	Once in a while	11%	34%	34%	18%	4%	4877
	Not at all	10%	29%	34%	20%	7%	3123
	Total	11%	32%	34%	19%	5%	9979
Q30: \$\$ you spend on duck hunting each year?	\$250 or less	11%	33%	33%	17%	6%	3460
	\$251-\$1000	10%	32%	34%	20%	4%	4486
	\$1001-\$5000	11%	29%	36%	21%	3%	1726
	Over \$5000	15%	34%	32%	19%	1%	263
	Total	11%	32%	34%	19%	5%	9935
Q32: Your age:	24 or under	17%	40%	26%	10%	7%	1216
	25-44	12%	33%	33%	18%	4%	4072
	45-64	8%	29%	36%	22%	4%	3996
	65 or over	6%	24%	38%	25%	6%	670
	Total	11%	32%	34%	19%	5%	9954

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

		Q28h: Your Confidence in Conservation Groups?					
		High	Medium	Low	None	Don't know	Total
Q5: Over last 5 yrs, days usually hunted ducks per year?	5 or less	49%	34%	11%	3%	3%	1593
	6 to 10	52%	33%	8%	4%	3%	2714
	11 to 20	53%	31%	9%	5%	2%	2994
	21 to 30	50%	30%	10%	8%	2%	1653
	More than 30	46%	32%	14%	6%	2%	1083
	Total	51%	32%	10%	5%	3%	10037
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	40%	33%	13%	11%	4%	1310
	About right	54%	31%	9%	4%	2%	7142
	Too high	49%	35%	10%	5%	0%	793
	No opinion	39%	32%	16%	6%	8%	620
	Total	51%	32%	10%	5%	3%	9865
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	51%	30%	10%	6%	3%	3438
	About right	53%	32%	9%	4%	2%	5820
	Too long	31%	42%	20%	7%	0%	324
	No opinion	37%	35%	13%	6%	9%	366
	Total	51%	32%	10%	5%	3%	9948
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	<6 ducks	53%	34%	7%	3%	3%	810
	6-10 ducks	55%	30%	9%	4%	2%	1223
	11-20 ducks	54%	32%	8%	4%	2%	2597
	21-50 ducks	50%	32%	11%	6%	2%	2989
	> 50 ducks	39%	37%	13%	9%	2%	1171
	Total	51%	33%	9%	5%	2%	8791
q27: Your view of motorized spinning-wing decoys?	Be allowed	54%	30%	9%	4%	2%	5197
	Not be allowed	49%	33%	11%	6%	1%	2308
	No opinion	46%	34%	10%	5%	5%	2357
	Total	51%	32%	10%	5%	3%	9862
Q29: Do you access the internet to look up duck hunting information?	Frequently	57%	30%	8%	4%	1%	1982
	Once in a while	52%	32%	9%	5%	2%	4932
	Not at all	45%	33%	12%	6%	4%	3149
	Total	51%	32%	10%	5%	3%	10063
Q30: \$\$ you spend on duck hunting each year?	\$250 or less	49%	31%	10%	5%	5%	3481
	\$251-\$1000	53%	32%	9%	5%	2%	4533
	\$1001-\$5000	50%	33%	11%	5%	1%	1741
	Over \$5000	48%	29%	13%	9%	2%	263
	Total	51%	32%	10%	5%	3%	10017
Q32: Your age:	24 or under	56%	25%	8%	5%	7%	1211
	25-44	50%	33%	11%	5%	2%	4129
	45-64	51%	33%	9%	5%	2%	4010
	65 or over	49%	30%	13%	4%	4%	688
	Total	51%	32%	10%	5%	3%	10038

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

		Q28i: Your Confidence in Flyway Councils?					
		High	Medium	Low	None	Don't know	Total
Q5: Over last 5 yrs, days usually hunted ducks per year?	5 or less	23%	42%	14%	3%	18%	1592
	6 to 10	23%	44%	13%	3%	16%	2704
	11 to 20	27%	42%	15%	4%	12%	2953
	21 to 30	26%	44%	15%	5%	10%	1637
	More than 30	27%	41%	18%	4%	10%	1074
	Total	25%	43%	15%	4%	13%	9960
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	18%	42%	20%	7%	13%	1306
	About right	27%	44%	13%	3%	13%	7086
	Too high	26%	42%	18%	5%	9%	787
	No opinion	18%	36%	13%	7%	25%	610
	Total	25%	43%	15%	4%	13%	9789
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	26%	42%	15%	5%	13%	3408
	About right	26%	44%	14%	3%	13%	5779
	Too long	19%	39%	27%	7%	7%	324
	No opinion	19%	37%	12%	4%	28%	360
	Total	25%	43%	15%	4%	13%	9871
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	<6 ducks	25%	47%	11%	3%	14%	800
	6-10 ducks	27%	41%	14%	2%	16%	1215
	11-20 ducks	26%	44%	13%	4%	13%	2584
	21-50 ducks	26%	44%	15%	5%	10%	2970
	> 50 ducks	22%	42%	22%	5%	8%	1157
	Total	25%	44%	15%	4%	12%	8726
q27: Your view of motorized spinning-wing decoys?	Be allowed	27%	43%	15%	4%	12%	5161
	Not be allowed	25%	42%	16%	5%	12%	2294
	No opinion	22%	44%	13%	3%	17%	2337
	Total	25%	43%	15%	4%	13%	9792
Q29: Do you access the internet to look up duck hunting information?	Frequently	33%	47%	10%	3%	7%	1960
	Once in a while	25%	44%	15%	3%	13%	4897
	Not at all	22%	38%	17%	6%	17%	3128
	Total	25%	43%	15%	4%	13%	9985
Q30: \$\$ you spend on duck hunting each year?	\$250 or less	24%	41%	13%	4%	17%	3460
	\$251-\$1000	26%	44%	15%	3%	12%	4496
	\$1001-\$5000	26%	44%	17%	4%	9%	1728
	Over \$5000	23%	42%	21%	8%	6%	256
	Total	25%	43%	15%	4%	13%	9940
Q32: Your age:	24 or under	31%	40%	11%	3%	15%	1213
	25-44	25%	44%	15%	3%	13%	4102
	45-64	24%	43%	15%	5%	12%	3969
	65 or over	22%	43%	15%	3%	16%	675
	Total	25%	43%	15%	4%	13%	9960

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

		Q28j: Your Confidence in Outdoor writers/TV personalities?					
		High	Medium	Low	None	Don't know	Total
Q5: Over last 5 yrs, days usually hunted ducks per year?	5 or less	5%	34%	38%	18%	6%	1589
	6 to 10	5%	35%	38%	16%	6%	2702
	11 to 20	7%	33%	37%	19%	4%	2980
	21 to 30	6%	31%	40%	19%	5%	1635
	More than 30	9%	28%	37%	20%	5%	1071
	Total	6%	33%	38%	18%	5%	9978
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	7%	32%	35%	19%	8%	1296
	About right	6%	34%	39%	17%	5%	7102
	Too high	4%	33%	41%	20%	1%	789
	No opinion	4%	30%	32%	23%	12%	620
	Total	6%	33%	38%	18%	5%	9806
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	7%	31%	37%	18%	6%	3421
	About right	5%	35%	38%	17%	4%	5783
	Too long	2%	24%	41%	30%	2%	322
	No opinion	6%	26%	34%	19%	14%	364
	Total	6%	33%	38%	18%	5%	9890
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	<6 ducks	5%	35%	36%	19%	5%	806
	6-10 ducks	6%	33%	39%	17%	5%	1218
	11-20 ducks	5%	36%	39%	16%	5%	2584
	21-50 ducks	8%	34%	36%	17%	4%	2976
	> 50 ducks	6%	27%	42%	21%	4%	1153
	Total	6%	34%	38%	18%	4%	8737
q27: Your view of motorized spinning-wing decoys?	Be allowed	7%	35%	36%	16%	5%	5172
	Not be allowed	4%	29%	40%	24%	4%	2295
	No opinion	5%	32%	39%	17%	7%	2342
	Total	6%	33%	38%	18%	5%	9809
Q29: Do you access the internet to look up duck hunting information?	Frequently	8%	35%	38%	15%	2%	1977
	Once in a while	6%	34%	39%	16%	5%	4896
	Not at all	5%	29%	36%	22%	7%	3129
	Total	6%	33%	38%	18%	5%	10003
Q30: \$\$ you spend on duck hunting each year?	\$250 or less	6%	33%	36%	18%	7%	3471
	\$251-\$1000	6%	34%	38%	17%	5%	4496
	\$1001-\$5000	6%	32%	41%	19%	3%	1729
	Over \$5000	5%	24%	44%	26%	2%	263
	Total	6%	33%	38%	18%	5%	9958
Q32: Your age:	24 or under	10%	33%	36%	12%	9%	1211
	25-44	6%	35%	38%	16%	5%	4108
	45-64	5%	32%	38%	21%	4%	3976
	65 or over	4%	28%	37%	24%	7%	680
	Total	6%	33%	38%	18%	5%	9975

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

		Q28k: Your Confidence in Duck hunting guides?					
		High	Medium	Low	None	Don't know	Total
Q5: Over last 5 yrs, days usually hunted ducks per year?	5 or less	17%	40%	28%	9%	6%	1594
	6 to 10	17%	38%	29%	11%	6%	2715
	11 to 20	16%	38%	29%	11%	5%	2985
	21 to 30	16%	38%	27%	14%	5%	1650
	More than 30	19%	38%	27%	11%	5%	1083
	Total	17%	38%	28%	11%	5%	10026
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	25%	39%	21%	9%	7%	1312
	About right	16%	39%	29%	11%	5%	7132
	Too high	8%	33%	35%	19%	4%	790
	No opinion	16%	36%	27%	7%	13%	622
	Total	17%	38%	28%	11%	5%	9857
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	21%	39%	25%	9%	5%	3432
	About right	15%	38%	30%	12%	5%	5818
	Too long	5%	41%	29%	21%	4%	323
	No opinion	17%	33%	24%	13%	13%	367
	Total	17%	38%	28%	11%	5%	9940
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	<6 ducks	15%	37%	30%	11%	7%	810
	6-10 ducks	17%	38%	29%	10%	6%	1221
	11-20 ducks	15%	39%	29%	11%	4%	2587
	21-50 ducks	18%	39%	28%	10%	4%	2986
	> 50 ducks	19%	39%	26%	13%	4%	1171
	Total	17%	39%	28%	11%	5%	8775
q27: Your view of motorized spinning-wing decoys?	Be allowed	20%	40%	25%	10%	5%	5193
	Not be allowed	11%	35%	33%	17%	5%	2312
	No opinion	15%	38%	29%	10%	8%	2346
	Total	17%	39%	28%	11%	6%	9851
Q29: Do you access the internet to look up duck hunting information?	Frequently	17%	39%	30%	11%	2%	1979
	Once in a while	18%	39%	27%	10%	5%	4918
	Not at all	14%	36%	29%	13%	8%	3154
	Total	17%	38%	28%	11%	6%	10051
Q30: \$\$ you spend on duck hunting each year?	\$250 or less	16%	40%	27%	10%	7%	3486
	\$251-\$1000	17%	38%	28%	12%	5%	4528
	\$1001-\$5000	16%	36%	32%	12%	4%	1736
	Over \$5000	14%	43%	28%	14%	1%	256
	Total	17%	38%	28%	11%	5%	10007
Q32: Your age:	24 or under	25%	43%	18%	7%	7%	1217
	25-44	18%	38%	28%	10%	5%	4124
	45-64	13%	37%	31%	13%	5%	3995
	65 or over	11%	38%	30%	13%	8%	688
	Total	17%	38%	28%	11%	6%	10023

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

		q28l: Your Confidence in Wildlife Agencies?					
		High	Medium	Low	None	Don't know	Total
Q5: Over last 5 yrs, days usually hunted ducks per year?	5 or less	27%	48%	18%	3%	4%	1589
	6 to 10	25%	50%	17%	5%	3%	2715
	11 to 20	25%	45%	22%	5%	3%	2986
	21 to 30	25%	46%	20%	6%	3%	1650
	More than 30	24%	46%	21%	5%	3%	1083
	Total	25%	47%	20%	5%	3%	10022
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	20%	44%	23%	8%	4%	1310
	About right	26%	48%	19%	4%	3%	7122
	Too high	23%	49%	22%	4%	2%	793
	No opinion	24%	38%	21%	8%	9%	625
	Total	25%	47%	20%	5%	3%	9850
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	26%	44%	21%	6%	3%	3437
	About right	25%	49%	19%	4%	3%	5806
	Too long	16%	50%	25%	7%	3%	324
	No opinion	22%	45%	16%	5%	11%	367
	Total	25%	47%	20%	5%	3%	9934
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	<6 ducks	31%	47%	17%	2%	3%	810
	6-10 ducks	27%	50%	17%	4%	3%	1221
	11-20 ducks	26%	50%	17%	4%	2%	2594
	21-50 ducks	23%	47%	23%	5%	2%	2987
	> 50 ducks	21%	46%	22%	9%	2%	1169
	Total	25%	48%	19%	5%	3%	8780
q27: Your view of motorized spinning-wing decoys?	Be allowed	24%	47%	20%	5%	3%	5198
	Not be allowed	27%	46%	20%	5%	2%	2305
	No opinion	25%	49%	18%	4%	5%	2349
	Total	25%	47%	20%	5%	3%	9852
Q29: Do you access the internet to look up duck hunting information?	Frequently	30%	46%	19%	4%	1%	1980
	Once in a while	24%	50%	18%	4%	3%	4923
	Not at all	23%	44%	22%	6%	5%	3146
	Total	25%	47%	20%	5%	3%	10048
Q30: \$\$ you spend on duck hunting each year?	\$250 or less	27%	47%	18%	3%	5%	3479
	\$251-\$1000	24%	49%	19%	5%	3%	4531
	\$1001-\$5000	23%	44%	25%	7%	2%	1734
	Over \$5000	23%	43%	23%	8%	3%	263
	Total	25%	47%	20%	5%	3%	10008
Q32: Your age:	24 or under	29%	47%	14%	3%	7%	1212
	25-44	24%	49%	19%	5%	3%	4119
	45-64	25%	46%	22%	5%	2%	4002
	65 or over	22%	45%	23%	4%	6%	686
	Total	25%	47%	20%	5%	3%	10020

Appendix E: Results of NDHS by Selected Classification/Background Variables: Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

		Q29: Do you access the internet to look up duck hunting information?			
		Frequently	Once in a while	Not at all	Total
Q5: Over last 5 yrs, days usually hunted ducks per year?	5 or less	8%	48%	43%	1614
	6 to 10	16%	49%	35%	2730
	11 to 20	21%	51%	28%	3007
	21 to 30	27%	48%	25%	1663
	More than 30	30%	45%	25%	1086
	Total	20%	49%	31%	10100
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	20%	50%	31%	1318
	About right	20%	49%	31%	7184
	Too high	27%	46%	27%	792
	No opinion	13%	48%	39%	632
	Total	20%	49%	31%	9927
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	24%	49%	27%	3461
	About right	18%	50%	32%	5858
	Too long	20%	45%	36%	322
	No opinion	7%	41%	52%	368
	Total	20%	49%	31%	10009
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	<6 ducks	15%	49%	36%	814
	6-10 ducks	13%	48%	40%	1232
	11-20 ducks	17%	51%	32%	2619
	21-50 ducks	24%	49%	28%	3010
	> 50 ducks	29%	47%	24%	1174
	Total	20%	49%	31%	8849
q27: Your view of motorized spinning-wing decoys?	Be allowed	22%	50%	28%	5223
	Not be allowed	20%	47%	33%	2321
	No opinion	15%	48%	37%	2380
	Total	20%	49%	31%	9924
Q29: Do you access the internet to look up duck hunting information?	Frequently	100%	0%	0%	
	Once in a while	0%	100%	0%	
	Not at all	0%	0%	100%	
	Total				10142
Q30: \$\$ you spend on duck hunting each year?	\$250 or less	9%	47%	44%	3509
	\$251-\$1000	21%	51%	28%	4554
	\$1001-\$5000	35%	48%	17%	1753
	Over \$5000	40%	39%	21%	263
	Total	20%	49%	31%	10079
Q32: Your age:	24 or under	22%	52%	25%	1224
	25-44	24%	53%	23%	4140
	45-64	17%	46%	37%	4045
	65 or over	5%	34%	60%	692
	Total	20%	49%	31%	10102

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

		Q30: \$\$ you spend on duck hunting each year?				
		\$250 or less	\$251-\$1000	\$1001-\$5000	Over \$5000	Total
Q5: Over last 5 yrs, days usually hunted ducks per year?	5 or less	66%	29%	4%	1%	1602
	6 to 10	46%	43%	10%	1%	2718
	11 to 20	25%	53%	20%	2%	2993
	21 to 30	19%	51%	27%	4%	1656
	More than 30	11%	43%	36%	10%	1087
	Total	35%	45%	17%	3%	10056
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	32%	48%	18%	3%	1313
	About right	35%	45%	18%	2%	7160
	Too high	24%	46%	26%	4%	780
	No opinion	54%	38%	6%	2%	630
	Total	35%	45%	17%	3%	9882
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	31%	47%	19%	3%	3445
	About right	36%	45%	17%	2%	5834
	Too long	26%	41%	27%	6%	319
	No opinion	66%	30%	4%	0%	366
	Total	35%	45%	17%	3%	9964
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	<6 ducks	58%	34%	8%	0%	808
	6-10 ducks	57%	35%	6%	1%	1224
	11-20 ducks	41%	48%	10%	1%	2615
	21-50 ducks	24%	50%	24%	2%	2990
	> 50 ducks	8%	43%	38%	11%	1173
	Total	35%	45%	18%	3%	8810
q27: Your view of motorized spinning-wing decoys?	Be allowed	31%	48%	18%	3%	5205
	Not be allowed	35%	43%	19%	3%	2311
	No opinion	43%	42%	13%	2%	2362
	Total	35%	45%	17%	3%	9878
Q29: Do you access the internet to look up duck hunting information?	Frequently	15%	49%	31%	5%	1987
	Once in a while	34%	47%	17%	2%	4929
	Not at all	49%	40%	9%	2%	3163
	Total	35%	45%	17%	3%	10079
Q30: \$\$ you spend on duck hunting each year?	\$250 or less	100%	0%	0%	0%	
	\$251-\$1000	0%	100%	0%	0%	
	\$1001-\$5000	0%	0%	100%	0%	
	Over \$5000	0%	0%	0%	100%	
	Total					10097
Q32: Your age:	24 or under	48%	42%	9%	1%	1219
	25-44	32%	47%	19%	2%	4126
	45-64	33%	44%	19%	3%	4026
	65 or over	37%	44%	14%	4%	688
	Total	35%	45%	17%	3%	10058

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

		q31: Please indicate your sex:		
		Male	Female	Total
Q5: Over last 5 yrs, days usually hunted ducks per year?	5 or less	99%	1%	1602
	6 to 10	98%	2%	2729
	11 to 20	98%	2%	2975
	21 to 30	99%	1%	1650
	More than 30	99%	1%	1083
	Total	99%	1%	10039
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	98%	2%	1311
	About right	99%	1%	7136
	Too high	99%	1%	789
	No opinion	98%	2%	629
	Total	99%	1%	9864
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	98%	2%	3438
	About right	99%	1%	5818
	Too long	99%	1%	323
	No opinion	98%	2%	368
	Total	99%	1%	9946
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	<6 ducks	98%	2%	803
	6-10 ducks	98%	2%	1225
	11-20 ducks	98%	2%	2609
	21-50 ducks	99%	1%	2995
	> 50 ducks	99%	1%	1158
	Total	99%	1%	8791
q27: Your view of motorized spinning-wing decoys?	Be allowed	99%	1%	5193
	Not be allowed	99%	1%	2303
	No opinion	98%	2%	2365
	Total	99%	1%	9861
Q29: Do you access the internet to look up duck hunting information?	Frequently	99%	1%	1972
	Once in a while	98%	2%	4924
	Not at all	99%	1%	3164
	Total	99%	1%	10059
Q30: \$\$ you spend on duck hunting each year?	\$250 or less	98%	2%	3495
	\$251-\$1000	99%	1%	4531
	\$1001-\$5000	99%	1%	1738
	Over \$5000	98%	2%	256
	Total	99%	1%	10020
Q32: Your age:	24 or under	98%	2%	1217
	25-44	99%	1%	4114
	45-64	99%	1%	4030
	65 or over	99%	1%	686
	Total	99%	1%	10047

Appendix E: Results of NDHS by Selected Classification/Background Variables:
Q5, Q11, Q12, Q18, Q27, Q29, Q30, Q32

		Q32: Your age:				
		24 or	25-44	45-64	65 or over	Total
Q5: Over last 5 yrs, days usually hunted ducks per year?	5 or less	10%	36%	48%	7%	1600
	6 to 10	11%	41%	41%	7%	2734
	11 to 20	11%	44%	39%	7%	2999
	21 to 30	15%	42%	37%	5%	1659
	More than 30	18%	38%	37%	7%	1086
	Total	12%	41%	40%	7%	10079
Q11: Statement which describes your feeling about duck bag over last 5 yrs?	Too low	15%	44%	36%	5%	1311
	About right	12%	41%	41%	7%	7177
	Too high	6%	37%	48%	9%	793
	No opinion	19%	44%	32%	5%	623
	Total	12%	41%	40%	7%	9904
Q12: Statement which describes your feeling about duck season (#days) over last 5 yrs?	Too short	16%	44%	36%	4%	3457
	About right	10%	40%	42%	8%	5843
	Too long	4%	36%	51%	9%	324
	No opinion	19%	39%	33%	9%	362
	Total	12%	41%	40%	7%	9986
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	<6 ducks	14%	38%	41%	7%	810
	6-10 ducks	12%	40%	40%	8%	1225
	11-20 ducks	11%	39%	42%	8%	2614
	21-50 ducks	12%	42%	40%	6%	3006
	> 50 ducks	13%	45%	37%	4%	1173
	Total	12%	41%	41%	7%	8828
q27: Your view of motorized spinning-wing decoys?	Be allowed	13%	44%	38%	5%	5205
	Not be allowed	9%	36%	47%	9%	2320
	No opinion	13%	41%	39%	8%	2374
	Total	12%	41%	40%	7%	9899
Q29: Do you access the internet to look up duck hunting information?	Frequently	14%	50%	34%	2%	1989
	Once in a while	13%	45%	38%	5%	4943
	Not at all	10%	30%	47%	13%	3170
	Total	12%	41%	40%	7%	10102
Q30: \$\$ you spend on duck hunting each year?	\$250 or less	17%	38%	38%	7%	3498
	\$251-\$1000	11%	43%	39%	7%	4546
	\$1001-\$5000	6%	44%	44%	6%	1750
	Over \$5000	6%	34%	50%	11%	263
	Total	12%	41%	40%	7%	10058
Q32: Your age:	24 or under	100%	0%	0%	0%	
	25-44	0%	100%	0%	0%	
	45-64	0%	0%	100%	0%	
	65 or over	0%	0%	0%	100%	
	Total					10120

Appendix F: Results of NDHS by Flyway

		Flyway			
		Atlantic	Missi'ippi	Central	Pacific
Q2: How important is duck hunting to you?	Most important	13%	15%	10%	14%
	1 of most imp.	62%	59%	53%	59%
	No more imp.	21%	20%	29%	21%
	Less imp.	4%	5%	6%	5%
	1 of least imp.	1%	1%	1%	1%
	Total	1762	2560	4090	1716
Q3: When did you start hunting ducks?	Before 1970	22%	28%	30%	35%
	1970 to 1979	19%	22%	17%	19%
	1980 to 1988	17%	17%	13%	14%
	1989 to 1996	18%	16%	16%	15%
	1997 to 2004	24%	17%	23%	18%
	Total	1767	2574	4112	1736
Q4: Over the last five years, about how many ducks did you usually harvest in a year?	5 or less	20%	16%	14%	9%
	6 to 10	27%	22%	20%	18%
	11 to 20	27%	27%	30%	25%
	21 to 50	19%	25%	27%	30%
	>50	7%	11%	9%	19%
	Total	1764	2578	4089	1724
Q5: Over last 5 yrs, days usually hunted ducks per year?	5 or less	18%	14%	20%	14%
	6 to 10	30%	25%	31%	25%
	11 to 20	30%	31%	27%	28%
	21 to 30	14%	18%	14%	17%
	More than 30	8%	11%	8%	16%
	Total	1766	2575	4105	1730
Q6: Did you hunt ducks during the 2004-2005 season?	Yes	93%	93%	90%	94%
	No	7%	7%	10%	6%
	Total	1762	2574	4101	1729
Q7: How many of the last 5 years have you hunted ducks?	0 years	0%	0%	1%	0%
	1 year	1%	1%	1%	1%
	2 years	3%	3%	4%	4%
	3 years	9%	8%	11%	9%
	4 years	11%	10%	13%	10%
	5 years	76%	79%	71%	77%
	Total	1766	2575	4099	1733
Q8: How many days per season are you duck hunting now compared to 5 years ago?	Same number	42%	43%	40%	43%
	More days	26%	19%	23%	25%
	Fewer days	27%	33%	31%	27%
	Wasn't hunting 5 yrs ago	6%	5%	6%	5%
	Total	1765	2574	4108	1732

Q9a consolidated responses to Q9 (“In which state have you hunted ducks most over the last 5 years?”) and Q10 (“Is this state the same as indicated in your current mailing address?”). Counts below are for Flyway weighted data. (Table follows on next page)

Appendix F: Results of NDHS by Flyway

		Flyway				
		Atlantic	Mississippi	Central	Pacific	Total
Q9a: State in which you hunted ducks most over the last 5 years.	AK	0	0	0	57	57
	AL	0	63	0	0	63
	AR	0	346	0	0	346
	AZ	0	0	0	44	44
	CA	0	0	0	625	625
	CO	0	0	256	0	256
	CT	30	0	0	0	30
	DE	46	0	0	0	46
	FL	128	0	0	0	128
	GA	136	0	0	0	136
	IA	0	104	0	0	104
	ID	0	0	0	202	202
	IL	0	191	0	0	191
	IN	0	66	0	0	66
	KS	0	0	362	0	362
	KY	0	62	0	0	62
	LA	0	267	0	0	267
	MA	32	0	0	0	32
	MD	212	0	0	0	212
	ME	59	0	0	0	59
	MI	0	220	0	0	220
	MN	0	458	0	0	458
	MO	0	146	0	0	146
	MS	0	98	0	0	98
	MTCENT	0	0	122	0	122
	MTPAC	0	0	0	93	93
	NC	226	0	0	0	226
	ND	0	0	695	0	695
	NE	0	0	316	0	316
	NH	20	0	0	0	20
	NJ	66	0	0	0	66
	NM	0	0	62	0	62
	NV	0	0	0	41	41
	NY	200	0	0	0	200
	OH	0	110	0	0	110
	OK	0	0	288	0	288
	OR	0	0	0	219	219
	PA	242	0	0	0	242
	RI	8	0	0	0	8
	SC	158	0	0	0	158
	SD	0	0	354	0	354
	TN	0	110	0	0	110
	TX	0	0	1599	0	1599
	UT	0	0	0	194	194
	VA	174	0	0	0	174
	VT	27	0	0	0	27
	WA	0	0	0	265	265
	WI	0	344	0	0	344
	WV	11	0	0	0	11
	WY	0	0	64	0	64
Total	1774	2585	4120	1740	10219	

Appendix F: Results of NDHS by Flyway

		Flyway			
		Atlantic	Missi'ppi	Central	Pacific
Q11: Which one statement best describes how you feel about the total daily duck bag limit over the last 5 years in the state where you hunted most?	Too low	18%	12%	14%	10%
	About right	69%	71%	75%	77%
	Too high	5%	11%	4%	7%
	No opinion	8%	6%	7%	6%
	Total	1729	2531	4042	1700
Q12: Which one statement best describes how you feel about the duck season length (number of days in the season) over the last 5 years in the state where you hunted most?	Too short	46%	34%	34%	23%
	About right	50%	57%	61%	70%
	Too long	1%	5%	1%	3%
	No opinion	3%	4%	4%	4%
	Total	1744	2550	4080	1716
Q13: What changes have you observed in the overall quality of your duck hunting over the last 5 years in the state where you hunted most?	Gotten much better	4%	2%	6%	4%
	Gotten a little better	16%	7%	16%	13%
	Stayed about the same	33%	21%	31%	32%
	Gotten a little worse	32%	33%	31%	33%
	Gotten much worse	12%	36%	13%	15%
	No opinion	3%	2%	4%	3%
	Total	1744	2553	4072	1711

Appendix F: Results of NDHS by Flyway

Q14. Thinking about changes in hunting quality over the last 5 years in the state were you hunted most, how much better or worse do you think the following have become?

		Flyway			
		Atlantic	Missi'ppi	Central	Pacific
Q14a: Duck habitat where I hunt?	Much better	4%	4%	7%	6%
	Somewhat better	18%	18%	20%	19%
	Neither better nor worse	43%	41%	45%	44%
	Somewhat worse	25%	24%	20%	22%
	Much worse	8%	12%	7%	7%
	Don't know	1%	2%	2%	2%
	Total	1741	2543	4028	1699
Q14b: When ducks arrive in area?	Much better	2%	1%	2%	1%
	Somewhat better	10%	5%	9%	8%
	Neither better nor worse	41%	26%	40%	44%
	Somewhat worse	33%	36%	31%	30%
	Much worse	11%	30%	13%	12%
	Don't know	3%	2%	3%	4%
	Total	1730	2525	3995	1688
Q14c: Length/time ducks stay in area?	Much better	2%	1%	2%	1%
	Somewhat better	10%	5%	8%	9%
	Neither better nor worse	49%	30%	43%	48%
	Somewhat worse	25%	36%	32%	27%
	Much worse	9%	25%	11%	10%
	Don't know	4%	3%	3%	5%
	Total	1723	2531	3976	1692
Q14d: Timing of duck seasons?	Much better	2%	1%	2%	1%
	Somewhat better	13%	8%	10%	10%
	Neither better nor worse	51%	47%	55%	66%
	Somewhat worse	22%	25%	21%	13%
	Much worse	9%	17%	9%	7%
	Don't know	3%	3%	3%	3%
	Total	1723	2527	3980	1670
Q14e: Overall duck numbers?	Much better	3%	1%	5%	3%
	Somewhat better	20%	10%	21%	17%
	Neither better nor worse	27%	18%	29%	30%
	Somewhat worse	31%	33%	28%	32%
	Much worse	16%	36%	14%	14%
	Don't know	3%	1%	3%	3%
	Total	1719	2530	3986	1685

Appendix F: Results of NDHS by Flyway

Q14. Thinking about changes in hunting quality over the last 5 years in the state were you hunted most, how much better or worse do you think the following have become?

		Flyway			
		Atlantic	Missi'ippi	Central	Pacific
Q14f: Ease of understanding regs?	Much better	4%	4%	5%	2%
	Somewhat better	14%	14%	14%	11%
	Neither better nor worse	63%	65%	58%	61%
	Somewhat worse	11%	10%	16%	15%
	Much worse	6%	6%	6%	8%
	Don't know	2%	1%	2%	2%
	Total	1729	2521	4004	1679
Q14g: Number of places to hunt?	Much better	2%	1%	3%	1%
	Somewhat better	10%	9%	10%	8%
	Neither better nor worse	30%	39%	36%	36%
	Somewhat worse	32%	30%	29%	33%
	Much worse	25%	19%	20%	19%
	Don't know	2%	2%	2%	3%
	Total	1731	2531	3991	1677
Q14h: Time I have to hunt ducks?	Much better	5%	4%	3%	5%
	Somewhat better	15%	15%	13%	15%
	Neither better nor worse	41%	49%	47%	49%
	Somewhat worse	27%	23%	25%	22%
	Much worse	10%	8%	11%	8%
	Don't know	1%	1%	1%	2%
	Total	1736	2535	4013	1681
Q14i: Weather patterns for duck hunting?	Much better	1%	0%	1%	0%
	Somewhat better	7%	3%	5%	7%
	Neither better nor worse	54%	40%	47%	47%
	Somewhat worse	25%	33%	29%	30%
	Much worse	8%	20%	14%	11%
	Don't know	5%	4%	4%	5%
	Total	1747	2545	4028	1695

Q15. Please indicated how much more or less of a problem the following have become over the last 5 years in the state where you hunted most....:

(Table follows on next page)

Appendix F: Results of NDHS by Flyway

		Flyway			
		Atlantic	Mississippi	Central	Pacific
Q15a: Crowding at hunting areas?	Much more	17%	22%	16%	22%
	Somewhat more	41%	38%	35%	40%
	Neither more or less	33%	31%	38%	27%
	Somewhat less	5%	4%	5%	4%
	Much less	1%	1%	1%	1%
	Don't know	3%	3%	4%	6%
	Total	1759	2562	4097	1717
Q15b: Hunting pressure?	Much more	16%	20%	15%	18%
	Somewhat more	42%	41%	38%	41%
	Neither more or less	32%	30%	35%	30%
	Somewhat less	6%	6%	7%	5%
	Much less	2%	1%	1%	1%
	Don't know	2%	2%	4%	5%
	Total	1750	2556	4093	1718
Q15c: Ducks unable to find rest areas?	Much more	6%	8%	7%	7%
	Somewhat more	24%	20%	20%	15%
	Neither more or less	53%	53%	55%	54%
	Somewhat less	6%	8%	8%	9%
	Much less	2%	5%	3%	8%
	Don't know	9%	7%	7%	8%
	Total	1743	2524	4073	1701
Q15d: Shifting duck migration routes?	Much more	6%	26%	10%	10%
	Somewhat more	25%	30%	25%	21%
	Neither more or less	49%	29%	45%	48%
	Somewhat less	5%	5%	5%	5%
	Much less	2%	1%	2%	2%
	Don't know	14%	9%	12%	14%
	Total	1725	2535	4040	1684
Q15e: Interference from other hunters?	Much more	12%	13%	12%	14%
	Somewhat more	34%	33%	32%	35%
	Neither more or less	47%	46%	46%	42%
	Somewhat less	4%	4%	4%	4%
	Much less	2%	1%	2%	1%
	Don't know	2%	3%	4%	4%
	Total	1734	2529	4055	1693
Q15f: Ducks arriving after season close?	Much more	21%	30%	19%	16%
	Somewhat more	35%	34%	29%	25%
	Neither more or less	32%	28%	40%	45%
	Somewhat less	4%	3%	4%	3%
	Much less	1%	2%	2%	2%
	Don't know	7%	5%	7%	10%
	Total	1738	2548	4052	1704
Q15g: Ducks concentrating on fewer areas?	Much more	11%	18%	11%	12%
	Somewhat more	34%	37%	33%	30%
	Neither more or less	43%	34%	43%	42%
	Somewhat less	3%	3%	4%	4%
	Much less	1%	1%	1%	3%
	Don't know	9%	6%	8%	9%
	Total	1750	2551	4092	1707

Appendix F: Results of NDHS by Flyway

Q16. For the most recent year you hunted in the state where you hunted most, how satisfied or dissatisfied were you with:

		Flyway			
		Atlantic	Mississippi	Central	Pacific
Q16a: Number of ducks you saw?	Very satisfied	9%	4%	13%	12%
	Somewhat satisfied	29%	17%	28%	28%
	Neutral	18%	12%	18%	18%
	Somewhat dissatisfied	32%	35%	29%	30%
	Very dissatisfied	12%	31%	12%	12%
	Total	1758	2568	4093	1720
Q16b: Number of ducks you harvested?	Very satisfied	8%	5%	12%	12%
	Somewhat satisfied	27%	15%	26%	28%
	Neutral	24%	19%	24%	21%
	Somewhat dissatisfied	30%	35%	27%	29%
	Very dissatisfied	11%	26%	11%	10%
	Total	1752	2563	4091	1708
Q16c: Timing of duck season?	Very satisfied	6%	4%	11%	12%
	Somewhat satisfied	21%	15%	20%	24%
	Neutral	36%	37%	37%	40%
	Somewhat dissatisfied	28%	29%	24%	18%
	Very dissatisfied	9%	15%	8%	5%
	Total	1747	2546	4085	1707
Q16d: Number of days in duck season?	Very satisfied	9%	10%	13%	19%
	Somewhat satisfied	21%	21%	22%	27%
	Neutral	35%	40%	40%	39%
	Somewhat dissatisfied	30%	23%	21%	13%
	Very dissatisfied	6%	6%	5%	3%
	Total	1737	2548	4080	1694
Q16e: Number of ducks in daily limit?	Very satisfied	17%	17%	21%	25%
	Somewhat satisfied	26%	25%	26%	29%
	Neutral	37%	39%	37%	34%
	Somewhat dissatisfied	17%	15%	14%	10%
	Very dissatisfied	3%	3%	2%	2%
	Total	1753	2562	4083	1710
Q16f: Your overall hunting experience?	Very satisfied	18%	10%	21%	22%
	Somewhat satisfied	38%	29%	35%	38%
	Neutral	22%	19%	21%	18%
	Somewhat dissatisfied	18%	30%	19%	19%
	Very dissatisfied	3%	12%	4%	4%
	Total	1753	2560	4086	1705

Appendix F: Results of NDHS by Flyway

		Flyway			
		Atlantic	Mississippi	Central	Pacific
Q17: What is the minimum number of ducks you need to harvest in a day's hunt to feel satisfied with your harvest?	0	11%	6%	10%	8%
	1 duck	12%	8%	8%	7%
	2 ducks	16%	17%	13%	12%
	3 ducks	15%	20%	18%	16%
	4 ducks	16%	21%	14%	16%
	5 ducks	10%	8%	13%	16%
	6 ducks	8%	10%	10%	5%
	7 ducks	2%	2%	3%	10%
	More than 7 ducks	3%	3%	5%	4%
	No opinion	7%	5%	6%	6%
	Total	1747	2565	4098	1718
Q18: Minimum # ducks you need to harvest in season to feel satisfied with harvest?	<6 ducks	11%	7%	11%	6%
	6-10 ducks	14%	12%	14%	10%
	11-20 ducks	29%	27%	27%	22%
	21-50 ducks	26%	32%	28%	32%
	> 50 ducks	7%	13%	8%	18%
	No opinion	13%	9%	12%	13%
	Total	1733	2525	4018	1694

Appendix F: Results of NDHS by Flyway

		Flyway			
		Atlantic	Mississippi	Central	Pacific
Q19a: How much do you support "Closed seasons on ducks with lower population levels so the overall season can be long for more abundant ducks?"	Strongly support	43%	40%	38%	32%
	Somewhat support	36%	35%	37%	34%
	Unsure	12%	14%	13%	14%
	Somewhat oppose	6%	7%	9%	12%
	Strongly oppose	3%	3%	3%	8%
	Total	1761	2569	4093	1715
Q19b: How much do you support "A shorter season for all ducks to meet needs of ducks with lower population levels?"	Strongly support	9%	9%	7%	5%
	Somewhat support	12%	14%	13%	12%
	Unsure	18%	15%	18%	16%
	Somewhat oppose	30%	33%	34%	29%
	Strongly oppose	31%	29%	29%	37%
	Total	1759	2570	4090	1711
Q19c: How much do you support "Shorter seasons for ducks with lower population levels within a longer season for abundant ducks?"	Strongly support	47%	42%	43%	41%
	Somewhat support	35%	39%	37%	34%
	Unsure	11%	9%	10%	11%
	Somewhat oppose	5%	8%	7%	8%
	Strongly oppose	2%	3%	3%	6%
	Total	1761	2573	4092	1720
Q19d: How much do you support "Longer season for all ducks, with daily bag limit restrictions for ducks with lower population levels?"	Strongly support	38%	36%	38%	41%
	Somewhat support	30%	32%	31%	30%
	Unsure	15%	15%	15%	14%
	Somewhat oppose	12%	11%	10%	9%
	Strongly oppose	5%	5%	5%	7%
	Total	1760	2570	4096	1715
Q20: Which one of the 4 options listed in question 19 would you most prefer?	Q19A, Closed seasons	22%	20%	19%	17%
	Q19B, Shorter seasons to	4%	8%	5%	6%
	Q19C, Shorter low-pop	30%	27%	29%	24%
	Q19D, Longer seasons &	44%	45%	47%	54%
	Total	1750	2550	4057	1691

Appendix F: Results of NDHS by Flyway

		Flyway			
		Atlantic	Missi'ippi	Central	Pacific
Q21: How small would the daily bag limit have to be before you would no longer hunt?	6 ducks	1%	1%	2%	4%
	5 ducks	2%	2%	4%	8%
	4 ducks	9%	10%	11%	20%
	3 ducks	15%	20%	21%	20%
	2 ducks	19%	23%	19%	13%
	1 duck	11%	7%	6%	4%
	I'll hunt with any limit	43%	35%	36%	30%
Q22: What do you think the daily bag limit for hen mallards should be?	0	5%	7%	8%	5%
	1 hen	36%	51%	43%	34%
	2 hens	40%	33%	32%	43%
	3 or more hens	7%	3%	6%	6%
	No opinion	13%	6%	11%	11%
Q23: Would you be willing to accept an overall smaller bag limit to have fewer species and sex bag limit restrictions?	Yes	32%	35%	31%	32%
	No	39%	43%	45%	48%
	No opinion	29%	23%	23%	20%
	Total	1748	2571	4088	1723

		Flyway			
		Atlantic	Missi'ippi	Central	Pacific
Q24: In the past, changes in season lengths were necessary to respond to changing duck populations. In the event of future changes, which would you prefer?	Most seasons either max or min length	20%	18%	18%	19%
	Most seasons intermediate length	29%	32%	30%	26%
	I'm not sure	52%	50%	52%	56%
Q25: How does changing bag limits and season lengths from year to year affect your duck hunting satisfaction?	Increases satisfaction	7%	6%	5%	4%
	No effect	67%	67%	70%	66%
	Decreases satisfaction	26%	27%	26%	30%
	Total	1714	2532	3994	1678

Appendix F: Results of NDHS by Flyway

		Flyway			
		Atlantic	Missi'ippi	Central	Pacific
Q26: For the most recent year you hunted ducks, how often did you use a motorized spinning-wing decoy?	Always	7%	15%	14%	8%
	Sometimes	32%	45%	40%	31%
	Never	61%	39%	47%	61%
q27: Your view of motorized spinning-wing decoys?	Be allowed	49%	52%	58%	51%
	Not be allowed	20%	27%	16%	26%
	No opinion	31%	21%	26%	23%
	Total	1722	2526	3997	1680

Appendix F: Results of NDHS by Flyway

		Flyway			
		Atlantic	Missi'ippi	Central	Pacific
Q28a: Your Confidence in Waterfowl biologists?	High	42%	40%	47%	36%
	Medium	42%	43%	40%	40%
	Low	10%	11%	7%	13%
	None	2%	3%	2%	4%
	Don't know	4%	3%	4%	6%
	Total	1737	2540	4050	1711
Q28b: Your Confidence in Commercial/Business interests?	High	2%	2%	3%	2%
	Medium	14%	13%	15%	15%
	Low	43%	43%	43%	41%
	None	36%	36%	33%	35%
	Don't know	5%	5%	6%	7%
	Total	1726	2529	4048	1699
Q28c: Your Confidence in Legislators?	High	2%	1%	2%	1%
	Medium	9%	10%	10%	7%
	Low	43%	42%	47%	42%
	None	41%	42%	37%	44%
	Don't know	4%	4%	4%	5%
	Total	1729	2526	4009	1699
Q28d: Your Confidence in Experienced Duck Hunters?	High	60%	57%	58%	59%
	Medium	33%	36%	34%	32%
	Low	4%	5%	5%	5%
	None	1%	1%	1%	0%
	Don't know	2%	1%	2%	3%
	Total	1736	2530	4033	1702
Q28e: Your Confidence in All duck Hunters?	High	15%	13%	13%	14%
	Medium	53%	50%	52%	50%
	Low	27%	32%	29%	29%
	None	3%	3%	3%	3%
	Don't know	3%	2%	3%	3%
	Total	1739	2535	4036	1703
Q28f: Your Confidence in General Public?	High	1%	1%	1%	1%
	Medium	7%	9%	9%	6%
	Low	42%	41%	43%	40%
	None	47%	44%	43%	50%
	Don't know	3%	4%	4%	4%
	Total	1734	2537	4044	1705

Appendix F: Results of NDHS by Flyway

		Flyway			
		Atlantic	Mississippi	Central	Pacific
Q28g: Your Confidence in Commercial Duck Clubs?	High	12%	10%	11%	13%
	Medium	32%	31%	31%	34%
	Low	33%	34%	35%	32%
	None	16%	21%	18%	16%
	Don't know	6%	4%	5%	5%
	Total	1734	2528	4036	1702
Q28h: Your Confidence in Conservation Groups?	High	59%	47%	53%	53%
	Medium	27%	34%	32%	29%
	Low	7%	12%	7%	9%
	None	3%	6%	5%	5%
	Don't know	4%	2%	3%	4%
	Total	1740	2553	4062	1719
Q28i: Your Confidence in Flyway Councils?	High	28%	24%	26%	24%
	Medium	43%	42%	44%	43%
	Low	12%	18%	12%	13%
	None	2%	5%	3%	3%
	Don't know	14%	11%	15%	17%
	Total	1729	2534	4031	1702
Q28j: Your Confidence in Outdoor writers/TV personalities?	High	7%	6%	6%	5%
	Medium	36%	32%	34%	32%
	Low	36%	40%	36%	36%
	None	16%	18%	19%	21%
	Don't know	6%	4%	5%	6%
	Total	1732	2537	4047	1702
Q28k: Your Confidence in Duck hunting guides?	High	20%	15%	17%	17%
	Medium	42%	38%	36%	39%
	Low	25%	30%	28%	26%
	None	8%	12%	13%	11%
	Don't know	6%	5%	5%	7%
	Total	1738	2548	4063	1717
q28l: Your Confidence in Wildlife Agencies?	High	26%	24%	31%	20%
	Medium	47%	49%	45%	44%
	Low	20%	20%	16%	23%
	None	4%	5%	3%	8%
	Don't know	4%	3%	4%	5%
	Total	1742	2546	4057	1716

Appendix F: Results of NDHS by Flyway

		Flyway			
		Atlantic	Missi'ippi	Central	Pacific
Q29: Do you access the internet to look up duck hunting information?	Frequently	22%	19%	20%	18%
	Once in a while	51%	49%	50%	45%
	Not at all	27%	32%	30%	36%
	Total	1761	2564	4090	1729
Q30: \$\$ you spend on duck hunting each year?	\$250 or less	37%	33%	39%	30%
	\$251-\$1000	45%	46%	47%	42%
	\$1001-\$5000	16%	18%	12%	23%
	Over \$5000	2%	3%	2%	5%
	Total	1753	2554	4072	1718
q31: Please indicate your sex:	Male	99%	99%	98%	98%
	Female	1%	1%	2%	2%
	Total	1752	2548	4078	1705
Q32: Your age:	24 or under	12%	10%	15%	14%
	25-44	44%	43%	38%	36%
	45-64	38%	41%	39%	41%
	65 or over	6%	6%	7%	10%
	Total	1749	2561	4087	1726

Appendix G: Results of NDHS by Sub-Flyway

		Sub-Flyway											
		LAF	MAF	UAF	LMF	MMF	UMF	LCF	MCF	UCF	LPF	MPF	UPF
Q2: How important is duck hunting to you?	Most important	14%	13%	11%	20%	17%	9%	12%	10%	8%	14%	21%	9%
	1 of most imp.	62%	61%	63%	60%	60%	58%	53%	55%	52%	56%	62%	59%
	No more imp.	19%	21%	23%	15%	18%	25%	29%	28%	31%	25%	14%	25%
	Less imp.	5%	5%	3%	5%	4%	6%	5%	6%	8%	4%	3%	6%
	1 of least imp.	1%	0%	0%	0%	0%	1%	2%	1%	1%	0%	1%	1%
	Total	229	805	725	643	1063	854	834	1854	1397	282	655	779
Q3: When did you start hunting ducks?	Before 1970	18%	23%	28%	31%	26%	28%	27%	32%	35%	28%	37%	35%
	1970 to 1979	18%	20%	20%	21%	19%	25%	17%	17%	19%	21%	21%	16%
	1980 to 1988	18%	16%	17%	17%	17%	17%	14%	14%	11%	13%	13%	15%
	1989 to 1996	19%	18%	15%	15%	18%	15%	19%	15%	12%	17%	14%	14%
	1997 to 2004	28%	22%	20%	16%	20%	15%	24%	22%	23%	21%	15%	19%
	Total	227	812	731	647	1064	862	837	1869	1404	282	669	785
Q4: Over the last five years, about how many ducks did you usually harvest in a year?	5 or less	22%	21%	17%	9%	13%	24%	15%	14%	13%	9%	6%	11%
	6 to 10	27%	25%	31%	16%	23%	27%	19%	22%	21%	22%	11%	22%
	11 to 20	24%	30%	26%	23%	27%	30%	28%	31%	31%	30%	21%	26%
	21 to 50	20%	18%	19%	32%	29%	16%	29%	23%	27%	24%	33%	29%
	>50	7%	7%	7%	21%	9%	4%	9%	10%	8%	15%	30%	12%
	Total	227	810	728	649	1066	861	828	1866	1404	282	662	780
Q4: Over the last five years, about how many ducks did you usually harvest in a year?	5 or less	22%	21%	17%	9%	13%	24%	15%	14%	13%	9%	6%	11%
	6 to 10	27%	25%	31%	16%	23%	27%	19%	22%	21%	22%	11%	22%
	11 to 20	24%	30%	26%	23%	27%	30%	28%	31%	31%	30%	21%	26%
	21 to 50	20%	18%	19%	32%	29%	16%	29%	23%	27%	24%	33%	29%
	>50	7%	7%	7%	21%	9%	4%	9%	10%	8%	15%	30%	12%
	Total	227	810	728	649	1066	861	828	1866	1404	282	662	780
Q5: Over last 5 yrs, days usually hunted ducks per year?	5 or less	19%	17%	16%	10%	9%	21%	21%	16%	23%	12%	11%	18%
	6 to 10	30%	28%	33%	17%	27%	31%	31%	29%	35%	28%	18%	29%
	11 to 20	31%	30%	30%	32%	30%	31%	26%	29%	27%	27%	27%	29%
	21 to 30	13%	16%	12%	23%	22%	12%	16%	15%	9%	13%	21%	15%
	More than 30	6%	9%	9%	18%	12%	5%	7%	11%	7%	19%	23%	10%
	Total	227	812	728	649	1064	860	838	1859	1400	280	667	783

Appendix G: Results of NDHS by Sub-Flyway

		Sub-Flyway											
		LAF	MAF	UAF	LMF	MMF	UMF	LCF	MCF	UCF	LPF	MPF	UPF
Q6: Did you hunt ducks during the 2004-2005 season?	Yes	90%	95%	96%	91%	95%	92%	86%	94%	93%	95%	94%	93%
	No	10%	5%	4%	9%	5%	8%	14%	6%	7%	5%	6%	7%
	Total	227	809	730	649	1067	858	838	1859	1396	281	667	781
Q7: How many of the last 5 years have you hunted ducks?	0 years	0%	0%	0%	0%	0%	0%	2%	0%	0%	0%	0%	0%
	1 year	2%	0%	0%	1%	1%	1%	1%	1%	0%	0%	1%	1%
	2 years	5%	2%	3%	1%	2%	4%	3%	4%	4%	4%	3%	4%
	3 years	11%	8%	7%	9%	6%	8%	13%	9%	9%	8%	6%	11%
	4 years	10%	12%	10%	10%	9%	11%	14%	10%	12%	10%	9%	10%
	5 years	71%	78%	80%	78%	83%	77%	67%	76%	75%	77%	81%	74%
	Total	227	814	729	647	1068	861	835	1863	1399	282	668	783
Q8: How many days per season are you duck hunting now compared to 5 years ago?	Same	40%	41%	45%	39%	45%	44%	35%	41%	46%	45%	45%	41%
	More	25%	28%	23%	17%	24%	18%	24%	25%	20%	21%	28%	23%
	Fewer	29%	25%	26%	39%	27%	32%	35%	28%	29%	30%	24%	29%
	'New'	6%	5%	6%	4%	5%	6%	6%	5%	6%	4%	4%	6%
	Total	227	812	730	646	1067	861	838	1863	1402	282	666	784

Q9a consolidated responses to Q9 (“In which state have you hunted ducks most over the last 5 years?”) and Q10 (“Is this state the same as indicated in your current mailing address?”). Counts below are for Sub-Flyway weighted data.

(Table follows on next page)

Appendix G: Results of NDHS by Sub-Flyway

		Sub-Flyway											Total	
		LAF	MAF	UAF	LMF	MMF	UMF	LCF	MCF	UCF	LPF	MPF		UPF
Q9a: State in which you hunted ducks most over the last 5 years.	AK	0	0	0	0	0	0	0	0	0	0	0	53	53
	AL	0	0	0	47	0	0	0	0	0	0	0	0	47
	AR	0	0	0	255	0	0	0	0	0	0	0	0	255
	AZ	0	0	0	0	0	0	0	0	0	44	0	0	44
	CA	0	0	0	0	0	0	0	0	0	0	670	0	670
	CO	0	0	0	0	0	0	0	480	0	0	0	0	480
	CT	0	0	58	0	0	0	0	0	0	0	0	0	58
	DE	0	50	0	0	0	0	0	0	0	0	0	0	50
	FL	45	0	0	0	0	0	0	0	0	0	0	0	45
	GA	48	0	0	0	0	0	0	0	0	0	0	0	48
	IA	0	0	0	0	165	0	0	0	0	0	0	0	165
	ID	0	0	0	0	0	0	0	0	0	0	0	191	191
	IL	0	0	0	0	301	0	0	0	0	0	0	0	301
	IN	0	0	0	0	105	0	0	0	0	0	0	0	105
	KS	0	0	0	0	0	0	0	678	0	0	0	0	678
	KY	0	0	0	0	98	0	0	0	0	0	0	0	98
	LA	0	0	0	196	0	0	0	0	0	0	0	0	196
	MA	0	0	62	0	0	0	0	0	0	0	0	0	62
	MD	0	230	0	0	0	0	0	0	0	0	0	0	230
	ME	0	0	114	0	0	0	0	0	0	0	0	0	114
	MI	0	0	0	0	0	186	0	0	0	0	0	0	186
	MN	0	0	0	0	0	386	0	0	0	0	0	0	386
	MO	0	0	0	0	230	0	0	0	0	0	0	0	230
	MS	0	0	0	72	0	0	0	0	0	0	0	0	72
	MTCENT	0	0	0	0	0	0	0	0	147	0	0	0	147
	MTPAC	0	0	0	0	0	0	0	0	0	0	0	88	88
	NC	80	0	0	0	0	0	0	0	0	0	0	0	80
	ND	0	0	0	0	0	0	0	0	836	0	0	0	836
	NE	0	0	0	0	0	0	0	593	0	0	0	0	593
	NH	0	0	38	0	0	0	0	0	0	0	0	0	38
	NJ	0	71	0	0	0	0	0	0	0	0	0	0	71
	NM	0	0	0	0	0	0	27	0	0	0	0	0	27
	NV	0	0	0	0	0	0	0	0	0	42	0	0	42
	NY	0	0	391	0	0	0	0	0	0	0	0	0	391
	OH	0	0	0	0	174	0	0	0	0	0	0	0	174
	OK	0	0	0	0	0	0	124	0	0	0	0	0	124
	OR	0	0	0	0	0	0	0	0	0	0	0	206	206
	PA	0	262	0	0	0	0	0	0	0	0	0	0	262
	RI	0	0	16	0	0	0	0	0	0	0	0	0	16
	SC	56	0	0	0	0	0	0	0	0	0	0	0	56
	SD	0	0	0	0	0	0	0	0	426	0	0	0	426
	TN	0	0	0	81	0	0	0	0	0	0	0	0	81
	TX	0	0	0	0	0	0	687	0	0	0	0	0	687
	UT	0	0	0	0	0	0	0	0	0	196	0	0	196
	VA	0	188	0	0	0	0	0	0	0	0	0	0	188
	VT	0	0	52	0	0	0	0	0	0	0	0	0	52
	WA	0	0	0	0	0	0	0	0	0	0	0	250	250
	WI	0	0	0	0	0	291	0	0	0	0	0	0	291
	WV	0	12	0	0	0	0	0	0	0	0	0	0	12
	WY	0	0	0	0	0	0	0	120	0	0	0	0	120
	Total	229	814	731	650	1072	863	838	1872	1410	282	670	788	10219

Appendix G: Results of NDHS by Sub-Flyway

		Sub-Flyway											
		LAF	MAF	UAF	LMF	MMF	UMF	LCF	MCF	UCF	LPF	MPF	UPF
Q11: Your feeling about duck bag over last 5 yrs?	Too low	24%	14%	16%	17%	8%	12%	20%	8%	9%	7%	13%	8%
	About right	61%	73%	76%	67%	79%	68%	68%	80%	80%	82%	73%	79%
	Too high	3%	7%	3%	11%	8%	13%	4%	5%	5%	6%	9%	7%
	No opinion	11%	5%	6%	5%	6%	7%	7%	7%	6%	5%	5%	6%
	Total	225	787	714	640	1039	846	829	1836	1364	272	661	768
Q12: Your feeling about duck season (#days) over last 5 yrs?	Too short	49%	48%	38%	34%	43%	29%	40%	38%	18%	24%	26%	21%
	About right	47%	48%	59%	54%	52%	63%	55%	56%	75%	71%	68%	71%
	Too long	1%	1%	1%	8%	2%	4%	1%	1%	2%	2%	3%	3%
	No opinion	3%	3%	3%	3%	3%	4%	4%	4%	4%	3%	3%	5%
	Total	225	800	720	645	1046	853	836	1853	1380	278	660	778
Q13: Changes in overall quality of your duck hunting over last 5 years?	Much better	5%	3%	6%	1%	3%	2%	4%	4%	10%	3%	4%	3%
	Little better	14%	18%	17%	4%	11%	8%	14%	16%	20%	18%	14%	10%
	About same	28%	35%	39%	12%	29%	22%	25%	33%	38%	35%	30%	32%
	Little worse	35%	31%	26%	31%	34%	33%	35%	32%	23%	31%	33%	34%
	Much worse	14%	10%	10%	51%	21%	33%	18%	12%	6%	11%	16%	16%
	No opinion	4%	2%	2%	1%	2%	3%	4%	3%	3%	2%	2%	4%
	Total	226	797	721	646	1046	854	833	1852	1380	280	660	772

Appendix G: Results of NDHS by Sub-Flyway

		Sub-Flyway											
		LAF	MAF	UAF	LMF	MMF	UMF	LCF	MCF	UCF	LPF	MPF	UPF
Q14a: Duck habitat where I hunt?	Much better	6%	4%	3%	5%	6%	2%	6%	5%	9%	5%	10%	4%
	Somewhat better	22%	16%	14%	20%	21%	14%	14%	21%	27%	22%	25%	14%
	Neither better nor worse	35%	45%	52%	43%	43%	38%	49%	43%	39%	35%	41%	50%
	Somewhat worse	27%	25%	24%	21%	22%	28%	21%	20%	19%	27%	16%	24%
	Much worse	9%	9%	6%	10%	6%	16%	8%	9%	5%	11%	6%	6%
	Don't know	1%	1%	2%	1%	1%	3%	2%	2%	1%	2%	3%	2%
	Total	226	798	713	636	1041	860	816	1836	1383	276	661	763
Q14b: When ducks arrive in area?	Much better	2%	1%	1%	0%	1%	1%	2%	1%	3%	3%	2%	1%
	Somewhat better	11%	9%	9%	3%	8%	4%	8%	8%	12%	10%	10%	7%
	Neither better nor worse	33%	44%	52%	16%	27%	35%	35%	39%	51%	51%	46%	40%
	Somewhat worse	37%	34%	26%	37%	38%	35%	34%	36%	23%	24%	30%	33%
	Much worse	15%	8%	9%	42%	25%	22%	17%	13%	7%	9%	9%	16%
	Don't know	2%	4%	4%	2%	2%	3%	4%	3%	3%	4%	4%	3%
	Total	224	792	710	635	1031	851	810	1823	1370	276	650	762
Q14c: Length/time ducks stay in area?	Much better	3%	1%	1%	0%	1%	0%	1%	1%	3%	2%	1%	1%
	Somewhat better	10%	9%	12%	2%	7%	5%	6%	9%	11%	11%	9%	9%
	Neither better nor worse	44%	53%	52%	21%	35%	35%	39%	44%	50%	50%	48%	46%
	Somewhat worse	26%	25%	24%	38%	35%	35%	37%	32%	26%	26%	27%	28%
	Much worse	12%	7%	6%	35%	20%	21%	13%	11%	7%	8%	9%	11%
	Don't know	5%	4%	4%	3%	2%	4%	4%	3%	3%	4%	5%	6%
	Total	222	790	712	637	1035	852	803	1816	1371	276	655	762
Q14d: Timing of duck seasons?	Much better	1%	2%	3%	1%	2%	1%	1%	1%	3%	2%	2%	1%
	Somewhat better	16%	12%	11%	6%	10%	8%	9%	9%	13%	10%	14%	8%
	Neither better nor worse	46%	52%	59%	40%	39%	59%	49%	54%	67%	71%	56%	72%
	Somewhat worse	22%	23%	19%	27%	30%	19%	26%	23%	11%	10%	16%	11%
	Much worse	10%	9%	6%	24%	18%	10%	11%	10%	3%	5%	8%	6%
	Don't know	5%	3%	3%	3%	1%	3%	4%	3%	2%	2%	4%	3%
	Total	221	794	711	635	1037	850	804	1819	1372	272	649	750
Q14e: Overall duck numbers?	Much better	3%	2%	3%	0%	2%	1%	3%	3%	10%	4%	2%	2%
	Somewhat better	17%	24%	18%	4%	16%	10%	17%	21%	28%	22%	21%	13%
	Neither better nor worse	21%	30%	34%	11%	28%	18%	24%	32%	34%	31%	31%	29%
	Somewhat worse	32%	31%	31%	32%	33%	35%	31%	30%	21%	30%	31%	34%
	Much worse	23%	12%	12%	51%	19%	35%	21%	12%	5%	12%	11%	18%
	Don't know	4%	2%	2%	1%	2%	1%	4%	2%	2%	2%	4%	3%
	Total	220	794	710	634	1040	852	803	1820	1381	274	656	756

Appendix G: Results of NDHS by Sub-Flyway

		Sub-Flyway											
		LAF	MAF	UAF	LMF	MMF	UMF	LCF	MCF	UCF	LPF	MPF	UPF
Q14f: Ease of understanding regs?	Much better	4%	3%	3%	4%	3%	3%	5%	4%	4%	3%	3%	2%
	Somewhat better	12%	16%	14%	15%	15%	14%	12%	15%	15%	13%	11%	11%
	Neither better nor worse	63%	61%	66%	67%	67%	62%	51%	63%	65%	64%	55%	65%
	Somewhat worse	11%	12%	11%	7%	8%	13%	20%	12%	12%	12%	19%	14%
	Much worse	8%	7%	4%	5%	5%	7%	8%	4%	3%	7%	10%	7%
	Don't know	2%	2%	1%	1%	2%	1%	2%	2%	1%	2%	2%	2%
	Total	224	794	709	628	1030	856	815	1813	1372	274	652	754
Q14g: Number of places to hunt?	Much better	3%	2%	1%	1%	3%	0%	3%	2%	4%	1%	2%	0%
	Somewhat better	12%	9%	7%	8%	13%	6%	8%	12%	14%	7%	10%	6%
	Neither better nor worse	30%	30%	30%	41%	39%	37%	39%	32%	35%	37%	39%	33%
	Somewhat worse	31%	31%	36%	27%	27%	36%	29%	29%	29%	35%	28%	36%
	Much worse	22%	27%	24%	21%	17%	19%	19%	23%	18%	17%	17%	22%
	Don't know	2%	2%	2%	1%	2%	2%	2%	2%	0%	2%	5%	2%
	Total	222	801	710	633	1039	855	807	1818	1377	275	651	752
Q14h: Time I have to hunt ducks?	Much better	8%	3%	5%	3%	5%	4%	2%	5%	3%	2%	7%	5%
	Somewhat better	12%	17%	16%	16%	15%	14%	12%	14%	13%	13%	18%	13%
	Neither better nor worse	41%	40%	44%	53%	46%	48%	49%	44%	47%	49%	46%	51%
	Somewhat worse	28%	28%	26%	19%	26%	25%	23%	26%	26%	25%	21%	21%
	Much worse	10%	10%	8%	7%	8%	9%	13%	10%	9%	9%	7%	8%
	Don't know	1%	1%	1%	1%	1%	1%	1%	1%	1%	2%	2%	1%
	Total	224	799	714	638	1037	852	813	1824	1380	272	654	756
Q14i: Weather patterns for duck hunting?	Much better	2%	1%	1%	0%	0%	0%	0%	1%	1%	1%	1%	0%
	Somewhat better	7%	7%	7%	2%	5%	3%	4%	4%	8%	11%	10%	4%
	Neither better nor worse	43%	59%	62%	24%	42%	52%	42%	41%	59%	49%	48%	45%
	Somewhat worse	30%	23%	20%	39%	35%	27%	31%	34%	23%	25%	30%	32%
	Much worse	11%	7%	5%	33%	17%	11%	18%	17%	6%	10%	7%	14%
	Don't know	8%	3%	6%	3%	2%	6%	4%	4%	4%	5%	4%	5%
	Total	226	802	716	638	1044	858	816	1830	1387	277	660	759

Appendix G: Results of NDHS by Sub-Flyway

		Sub-Flyway											
		LAF	MAF	UAF	LMF	MMF	UMF	LCF	MCF	UCF	LPF	MPF	UPF
Q15a: Crowding at hunting areas?	Much more	20%	17%	13%	23%	28%	17%	15%	21%	14%	24%	24%	20%
	Somewhat more	40%	43%	38%	35%	37%	42%	32%	37%	38%	45%	36%	42%
	Neither more or less	33%	32%	37%	31%	28%	32%	42%	32%	38%	24%	26%	29%
	Somewhat less	3%	4%	9%	5%	3%	5%	5%	3%	6%	3%	3%	4%
	Much less	1%	1%	2%	1%	1%	1%	1%	1%	2%	1%	1%	1%
	Don't know	3%	3%	1%	5%	4%	2%	4%	5%	2%	3%	11%	3%
	Total	227	809	725	644	1056	859	838	1858	1392	279	660	778
Q15b: Hunting pressure?	Much more	18%	16%	11%	25%	23%	13%	14%	19%	15%	21%	21%	16%
	Somewhat more	45%	43%	37%	38%	42%	44%	37%	40%	37%	41%	41%	41%
	Neither more or less	28%	33%	36%	28%	28%	32%	36%	32%	35%	30%	27%	32%
	Somewhat less	4%	5%	11%	5%	3%	9%	8%	5%	8%	4%	4%	6%
	Much less	2%	1%	2%	1%	1%	1%	1%	1%	3%	1%	1%	1%
	Don't know	3%	2%	2%	3%	3%	1%	5%	3%	2%	3%	6%	4%
	Total	224	807	723	644	1052	857	837	1857	1389	278	658	781
Q15c: Ducks unable to find rest areas?	Much more	6%	7%	4%	11%	7%	6%	7%	7%	7%	6%	8%	5%
	Somewhat more	29%	22%	17%	18%	20%	20%	20%	21%	17%	17%	15%	15%
	Neither more or less	45%	55%	61%	47%	54%	56%	53%	53%	60%	60%	42%	60%
	Somewhat less	5%	7%	7%	9%	9%	7%	9%	9%	7%	6%	11%	8%
	Much less	3%	2%	2%	8%	4%	2%	3%	3%	4%	4%	16%	3%
	Don't know	11%	6%	9%	7%	6%	7%	8%	7%	5%	8%	8%	8%
	Total	225	799	720	633	1041	848	833	1843	1385	276	653	771
Q15d: Shifting duck migration routes?	Much more	10%	4%	4%	26%	23%	28%	14%	8%	5%	10%	9%	10%
	Somewhat more	30%	24%	17%	31%	28%	29%	24%	26%	24%	14%	24%	22%
	Neither more or less	40%	54%	55%	26%	33%	29%	38%	47%	57%	57%	45%	47%
	Somewhat less	5%	4%	6%	6%	6%	3%	5%	6%	5%	4%	5%	5%
	Much less	2%	1%	2%	2%	2%	1%	3%	1%	1%	1%	2%	2%
	Don't know	14%	13%	17%	10%	8%	10%	16%	11%	8%	15%	15%	14%
	Total	222	788	721	635	1038	856	825	1830	1376	275	645	763

Appendix G: Results of NDHS by Sub-Flyway

		Sub-Flyway											
		LAF	MAF	UAF	LMF	MMF	UMF	LCF	MCF	UCF	LPF	MPF	UPF
Q15e: Interference from other hunters?	Much more	13%	11%	9%	16%	12%	12%	11%	15%	11%	15%	16%	12%
	Somewhat more	34%	36%	29%	29%	33%	35%	30%	32%	34%	39%	34%	34%
	Neither more or less	46%	45%	49%	48%	47%	45%	47%	44%	46%	39%	40%	45%
	Somewhat less	3%	4%	8%	3%	4%	5%	4%	4%	4%	3%	4%	4%
	Much less	1%	1%	3%	1%	1%	1%	2%	1%	3%	1%	2%	2%
	Don't know	2%	3%	2%	4%	3%	2%	5%	4%	2%	4%	4%	3%
	Total	224	798	712	629	1045	854	830	1828	1381	278	647	767
Q15f: Ducks arriving after season close?	Much more	26%	22%	11%	40%	33%	18%	25%	21%	7%	11%	20%	15%
	Somewhat more	39%	34%	30%	35%	37%	30%	34%	33%	18%	22%	26%	25%
	Neither more or less	21%	35%	44%	17%	23%	40%	30%	36%	60%	50%	42%	46%
	Somewhat less	4%	3%	5%	2%	3%	3%	3%	4%	5%	5%	2%	3%
	Much less	0%	1%	2%	2%	2%	2%	1%	1%	4%	2%	1%	2%
	Don't know	10%	5%	7%	3%	3%	7%	8%	5%	6%	10%	9%	10%
	Total	224	796	720	640	1048	855	825	1840	1385	277	655	772
Q15g: Ducks concentrating on fewer areas?	Much more	13%	10%	8%	27%	15%	12%	13%	11%	7%	8%	15%	11%
	Somewhat more	34%	34%	32%	39%	38%	36%	36%	34%	28%	28%	30%	31%
	Neither more or less	37%	46%	49%	24%	38%	41%	37%	43%	54%	53%	35%	43%
	Somewhat less	2%	3%	3%	3%	3%	3%	4%	4%	4%	4%	5%	4%
	Much less	1%	1%	2%	2%	1%	1%	1%	1%	1%	0%	6%	1%
	Don't know	13%	6%	7%	5%	5%	7%	10%	8%	5%	8%	9%	10%
	Total	226	801	724	640	1054	855	837	1851	1392	279	654	774

Appendix G: Results of NDHS by Sub-Flyway

		Sub-Flyway											
		LAF	MAF	UAF	LMF	MMF	UMF	LCF	MCF	UCF	LPF	MPF	UPF
Q16a: Number of ducks you saw?	Very satisfied	7%	9%	9%	3%	6%	4%	8%	10%	24%	8%	13%	12%
	Somewhat satisfied	24%	32%	33%	13%	22%	18%	23%	27%	35%	33%	29%	25%
	Neutral	17%	19%	18%	9%	16%	13%	17%	19%	19%	21%	19%	17%
	Somewhat dissatisfied	32%	32%	31%	35%	34%	36%	34%	32%	18%	27%	29%	32%
	Very dissatisfied	19%	8%	9%	40%	21%	29%	17%	12%	4%	11%	9%	15%
	Total	227	807	726	648	1058	858	835	1857	1396	280	664	776
Q16b: Number of ducks you harvested?	Very satisfied	6%	9%	10%	4%	6%	4%	8%	10%	20%	9%	15%	11%
	Somewhat satisfied	25%	28%	29%	10%	19%	18%	22%	25%	33%	30%	30%	26%
	Neutral	19%	28%	26%	16%	18%	23%	23%	25%	27%	21%	21%	20%
	Somewhat dissatisfied	33%	28%	29%	35%	37%	34%	32%	29%	17%	31%	25%	32%
	Very dissatisfied	17%	7%	6%	35%	20%	21%	15%	11%	3%	9%	10%	11%
	Total	227	804	721	645	1057	858	835	1859	1393	280	655	773
Q16c: Timing of duck season?	Very satisfied	5%	5%	8%	4%	4%	4%	7%	7%	19%	9%	11%	14%
	Somewhat satisfied	21%	20%	24%	11%	14%	19%	16%	19%	28%	23%	27%	23%
	Neutral	35%	36%	39%	30%	30%	47%	36%	37%	38%	50%	34%	42%
	Somewhat dissatisfied	29%	30%	21%	35%	33%	22%	30%	27%	12%	15%	22%	16%
	Very dissatisfied	10%	9%	7%	20%	18%	8%	10%	9%	2%	3%	6%	6%
	Total	225	801	724	640	1049	853	837	1848	1385	279	660	769

Appendix G: Results of NDHS by Sub-Flyway

		Sub-Flyway											
		LAF	MAF	UAF	LMF	MMF	UMF	LCF	MCF	UCF	LPF	MPF	UPF
Q16d: Number of days in duck season?	Very satisfied	9%	7%	12%	12%	10%	9%	9%	11%	21%	18%	18%	20%
	Somewhat satisfied	16%	23%	25%	20%	21%	23%	19%	22%	29%	25%	28%	26%
	Neutral	39%	32%	34%	39%	34%	44%	42%	38%	37%	41%	35%	40%
	Somewhat dissatisfied	29%	33%	24%	20%	28%	21%	25%	23%	11%	13%	15%	12%
	Very dissatisfied	7%	6%	5%	9%	7%	4%	6%	5%	1%	4%	3%	2%
	Total	224	794	723	644	1044	853	837	1841	1385	275	655	764
Q16e: Number of ducks in daily limit?	Very satisfied	18%	17%	18%	17%	20%	15%	14%	24%	29%	24%	24%	26%
	Somewhat satisfied	21%	28%	29%	23%	27%	25%	24%	27%	29%	29%	32%	27%
	Neutral	34%	40%	36%	36%	42%	41%	40%	39%	32%	39%	29%	37%
	Somewhat dissatisfied	24%	13%	14%	18%	9%	16%	19%	8%	8%	7%	12%	9%
	Very dissatisfied	3%	2%	3%	6%	2%	3%	3%	1%	1%	0%	4%	2%
	Total	226	805	725	645	1058	858	834	1849	1392	277	661	772
Q16f: Your overall hunting experience?	Very satisfied	15%	18%	23%	7%	13%	10%	17%	17%	30%	16%	24%	22%
	Somewhat satisfied	31%	42%	42%	21%	33%	32%	31%	38%	40%	44%	38%	36%
	Neutral	24%	23%	18%	16%	21%	20%	23%	20%	18%	18%	17%	18%
	Somewhat dissatisfied	24%	15%	14%	36%	26%	28%	22%	20%	12%	18%	18%	19%
	Very dissatisfied	5%	2%	3%	19%	8%	10%	6%	4%	1%	4%	4%	4%
	Total	226	804	726	644	1057	856	834	1848	1394	279	657	769

Appendix G: Results of NDHS by Sub-Flyway

		Sub-Flyway											
		LAF	MAF	UAF	LMF	MMF	UMF	LCF	MCF	UCF	LPF	MPF	UPF
Q17: What is the minimum number of ducks you need to harvest in a day's hunt to feel satisfied with your harvest?	0	7%	13%	16%	2%	8%	8%	8%	11%	13%	10%	8%	8%
	1 duck	8%	14%	14%	3%	9%	11%	5%	12%	8%	7%	6%	7%
	2 ducks	12%	19%	18%	10%	19%	23%	11%	17%	14%	12%	10%	14%
	3 ducks	16%	14%	13%	18%	20%	20%	19%	17%	19%	19%	15%	16%
	4 ducks	19%	14%	14%	26%	20%	17%	15%	13%	14%	18%	16%	15%
	5 ducks	12%	10%	6%	11%	6%	8%	13%	12%	15%	12%	20%	15%
	6 ducks	9%	6%	9%	14%	10%	6%	12%	7%	8%	7%	4%	5%
	7 ducks	3%	2%	2%	4%	1%	2%	5%	2%	2%	10%	11%	10%
	More than 7 ducks	6%	2%	2%	6%	2%	1%	7%	2%	2%	2%	4%	4%
	No opinion	8%	6%	7%	5%	5%	4%	5%	6%	7%	4%	5%	7%
	Total	225	802	723	647	1059	856	837	1849	1400	276	666	776
Q18: Minimum number of ducks you need to harvest in season to feel satisfied with harvest?	<6 ducks	6%	14%	15%	3%	7%	10%	10%	9%	14%	8%	4%	7%
	6-10 ducks	9%	17%	20%	4%	10%	20%	10%	16%	17%	11%	5%	12%
	11-20 ducks	31%	28%	26%	16%	27%	36%	25%	26%	30%	28%	17%	23%
	21-50 ducks	31%	24%	21%	40%	35%	24%	32%	26%	24%	30%	35%	30%
	> 50 ducks	9%	5%	5%	28%	10%	3%	11%	8%	4%	13%	28%	12%
	No opinion	14%	11%	13%	9%	10%	7%	12%	14%	11%	11%	11%	15%
	Total	224	794	716	631	1038	851	818	1826	1374	275	656	763

Appendix G: Results of NDHS by Sub-Flyway

		Sub-Flyway											
		LAF	MAF	UAF	LMF	MMF	UMF	LCF	MCF	UCF	LPF	MPF	UPF
Q19a: How much do you support "Closed seasons on ducks with lower population levels so the overall season can be long for more abundant ducks?"	Strongly support	41%	43%	47%	39%	46%	38%	37%	43%	36%	29%	27%	37%
	Somewhat support	37%	37%	36%	35%	34%	36%	38%	36%	36%	31%	35%	35%
	Unsure	13%	11%	9%	14%	12%	15%	12%	13%	15%	18%	12%	15%
	Somewhat oppose	5%	6%	7%	8%	4%	9%	10%	6%	10%	13%	15%	9%
	Strongly oppose	4%	3%	1%	4%	3%	2%	3%	2%	3%	8%	12%	5%
	Total	226	812	726	647	1058	860	837	1854	1392	274	660	780
Q19b: How much do you support "A shorter season for all ducks to meet needs of ducks with lower population levels?"	Strongly support	11%	8%	9%	10%	7%	8%	7%	5%	8%	5%	5%	5%
	Somewhat support	11%	13%	12%	15%	10%	16%	15%	12%	12%	17%	12%	11%
	Unsure	20%	18%	17%	14%	14%	17%	16%	18%	20%	21%	14%	17%
	Somewhat oppose	28%	31%	31%	30%	33%	35%	33%	34%	33%	26%	26%	32%
	Strongly oppose	30%	31%	31%	30%	35%	23%	29%	30%	28%	31%	42%	35%
	Total	227	809	725	646	1062	860	836	1850	1392	274	657	779
Q19c: How much do you support "Shorter seasons for ducks with lower population levels within a longer season for abundant ducks?"	Strongly support	44%	49%	49%	41%	49%	38%	43%	48%	39%	39%	38%	44%
	Somewhat support	34%	36%	34%	38%	37%	41%	38%	35%	37%	34%	34%	35%
	Unsure	13%	9%	8%	9%	6%	9%	9%	10%	11%	14%	11%	11%
	Somewhat oppose	6%	4%	6%	9%	5%	8%	7%	6%	9%	7%	10%	7%
	Strongly oppose	2%	2%	2%	3%	2%	3%	3%	2%	4%	6%	8%	5%
	Total	227	810	726	649	1061	860	835	1853	1398	276	662	781
Q19d: How much do you support "Longer seasons for all ducks, with daily bag limit restrictions for ducks with lower population levels?"	Strongly support	41%	37%	34%	39%	40%	32%	37%	40%	38%	42%	45%	37%
	Somewhat support	26%	31%	35%	31%	34%	32%	29%	33%	33%	30%	30%	30%
	Unsure	13%	16%	15%	14%	15%	17%	15%	15%	17%	16%	10%	16%
	Somewhat oppose	13%	12%	12%	11%	8%	14%	12%	8%	8%	7%	8%	10%
	Strongly oppose	7%	5%	4%	6%	4%	4%	7%	4%	4%	5%	8%	6%
	Total	227	810	724	647	1060	860	838	1852	1395	278	661	776
Q20: Which one of the options listed in question 19 would you most prefer?	Q19A, Closed seasons	20%	21%	26%	18%	21%	21%	20%	20%	17%	13%	15%	20%
	Q19B, Shorter seasons	5%	4%	3%	8%	4%	10%	5%	3%	6%	10%	4%	5%
	Q19C, Shorter low-pop	28%	32%	28%	26%	28%	28%	29%	30%	28%	22%	20%	27%
	Q19D, Longer seasons	47%	43%	42%	48%	47%	42%	45%	46%	49%	55%	61%	48%
	Total	226	802	723	638	1057	855	828	1847	1379	276	655	761

Appendix G: Results of NDHS by Sub-Flyway

		Sub-Flyway											
		LAF	MAF	UAF	LMF	MMF	UMF	LCF	MCF	UCF	LPF	MPF	UPF
Q21: How small would the daily bag limit have to be before you would no longer hunt?	6 ducks	1%	1%	3%	2%	1%	1%	3%	1%	1%	2%	3%	4%
	5 ducks	2%	3%	2%	3%	2%	2%	5%	2%	3%	9%	9%	8%
	4 ducks	11%	8%	8%	10%	10%	11%	13%	9%	11%	22%	23%	17%
	3 ducks	15%	14%	15%	23%	16%	21%	22%	19%	22%	19%	22%	20%
	2 ducks	16%	22%	18%	21%	23%	25%	19%	20%	19%	14%	10%	15%
	1 duck	14%	8%	9%	6%	10%	7%	7%	7%	5%	4%	3%	5%
	I'll hunt with any limit	41%	44%	45%	36%	37%	34%	32%	42%	39%	30%	29%	31%
	Total	225	810	724	648	1052	855	830	1845	1383	277	660	769
Q22: What do you think the daily bag limit for mallards should be?	0	6%	5%	3%	8%	7%	6%	8%	12%	5%	6%	6%	4%
	1 hen	37%	37%	32%	49%	51%	54%	37%	53%	45%	31%	42%	30%
	2 hens	31%	44%	47%	30%	36%	33%	33%	25%	37%	44%	39%	46%
	3 or more hens	7%	6%	8%	5%	3%	3%	7%	3%	6%	8%	4%	8%
	No opinion	19%	9%	10%	8%	4%	5%	14%	7%	7%	11%	10%	12%
	Total	226	806	724	646	1062	855	833	1853	1397	281	664	777
Q23: Would you be willing to accept an overall smaller bag limit to have fewer species and sex bag limit restrictions?	Yes	30%	33%	34%	34%	29%	39%	34%	30%	29%	39%	30%	32%
	No	36%	41%	40%	44%	45%	40%	45%	46%	44%	44%	54%	45%
	No opinion	35%	26%	26%	22%	27%	21%	21%	24%	27%	17%	16%	23%
	Total	224	805	722	647	1063	859	833	1853	1397	282	666	776

		Sub-Flyway											
		LAF	MAF	UAF	LMF	MMF	UMF	LCF	MCF	UCF	LPF	MPF	UPF
Q24: In the past, changes in season lengths were necessary to respond to changing duck populations. In the event of future change which would you prefer?	Most seasons either max or min length	22%	19%	17%	17%	20%	18%	19%	18%	17%	19%	20%	18%
	Intermediate	25%	31%	30%	31%	32%	33%	33%	27%	29%	29%	26%	25%
	I'm not sure	54%	50%	53%	51%	49%	49%	49%	55%	54%	52%	55%	57%
	Total	219	803	714	638	1057	851	830	1847	1378	277	658	761

Appendix G: Results of NDHS by Sub-Flyway

		Sub-Flyway											
		LAF	MAF	UAF	LMF	MMF	UMF	LCF	MCF	UCF	LPF	MPF	UPF
Q25: How does changing bag limits and season lengths from year to year affect your duck hunting satisfaction?	Increases satisfaction	9%	6%	5%	6%	6%	5%	5%	5%	5%	4%	5%	3%
	No effect	63%	68%	71%	64%	68%	69%	63%	72%	79%	66%	63%	69%
	Decreases satisfaction	28%	26%	24%	30%	26%	25%	33%	23%	17%	30%	32%	28%
	Total	222	784	707	635	1053	846	813	1824	1360	271	650	757
Q26: For the most recent year you hunted ducks, how often did you use a motorized spinning-wing decoy?	Always	7%	6%	9%	19%	16%	12%	11%	16%	16%	9%	11%	6%
	Sometimes	37%	32%	24%	51%	54%	35%	41%	41%	36%	29%	53%	16%
	Never	56%	62%	67%	31%	29%	53%	48%	44%	47%	61%	36%	79%
	Total	222	779	705	632	1045	845	806	1815	1359	270	646	759
Q27: Your view of motorized spinning-wing decoys?	Be allowed	46%	54%	46%	48%	58%	52%	55%	56%	64%	55%	55%	47%
	Not be allowed	17%	21%	22%	32%	21%	27%	16%	19%	14%	17%	26%	29%
	No opinion	37%	26%	32%	20%	21%	21%	29%	25%	22%	29%	19%	24%
	Total	224	788	707	630	1051	847	812	1829	1361	271	647	762

Appendix G: Results of NDHS by Sub-Flyway

		Sub-Flyway												
		LAF	MAF	UAF	LMF	MMF	UMF	LCF	MCF	UCF	LPF	MPF	UPF	
Q28a: Your Confidence Waterfowl biologists?	High	45%	39%	45%	37%	45%	38%	47%	43%	49%	36%	39%	35%	
	Medium	39%	44%	42%	44%	41%	45%	42%	40%	34%	43%	40%	40%	
	Low	10%	12%	8%	11%	9%	11%	5%	10%	9%	12%	13%	13%	
	None	2%	2%	2%	5%	2%	2%	2%	3%	2%	2%	5%	5%	
	Don't know	4%	4%	2%	3%	3%	4%	4%	4%	4%	5%	7%	4%	8%
	Total	224	798	717	637	1054	849	823	1846	1384	280	655	776	
Q28b: Your Confidence Commercial/Business interests?	High	2%	1%	3%	2%	3%	1%	4%	2%	2%	3%	3%	1%	
	Medium	16%	13%	14%	16%	15%	10%	16%	15%	15%	11%	18%	14%	
	Low	41%	45%	42%	43%	43%	44%	43%	44%	43%	37%	40%	43%	
	None	35%	36%	38%	35%	32%	40%	32%	33%	34%	40%	33%	35%	
	Don't know	7%	5%	4%	4%	7%	5%	5%	6%	5%	8%	5%	7%	
	Total	222	791	720	633	1055	844	825	1838	1380	277	653	769	
Q28c: Your Confidence Legislators?	High	2%	1%	2%	2%	2%	1%	2%	1%	3%	1%	1%	1%	
	Medium	12%	7%	10%	13%	11%	8%	7%	10%	17%	9%	6%	8%	
	Low	38%	47%	45%	41%	43%	42%	48%	46%	46%	41%	42%	43%	
	None	43%	41%	40%	41%	40%	45%	40%	38%	30%	43%	48%	42%	
	Don't know	4%	5%	3%	4%	4%	4%	3%	5%	5%	6%	4%	6%	
	Total	221	797	719	632	1054	843	816	1822	1369	279	652	768	
Q28d: Your Confidence Experienced Duck Hunters?	High	61%	59%	60%	56%	60%	56%	60%	57%	55%	63%	63%	56%	
	Medium	30%	35%	35%	35%	34%	38%	31%	36%	38%	31%	29%	35%	
	Low	5%	3%	3%	6%	4%	5%	6%	5%	5%	4%	5%	5%	
	None	2%	1%	1%	1%	1%	0%	1%	0%	0%	1%	0%	1%	
	Don't know	2%	3%	1%	1%	1%	1%	2%	2%	3%	2%	2%	3%	
	Total	224	798	713	631	1052	848	820	1830	1383	278	657	768	

Appendix G: Results of NDHS by Sub-Flyway

		Sub-Flyway											
		LAF	MAF	UAF	LMF	MMF	UMF	LCF	MCF	UCF	LPF	MPF	UPF
Q28e: Your Confidence in All duck Hunters?	High	17%	13%	14%	14%	13%	12%	12%	14%	14%	11%	17%	13%
	Medium	51%	53%	55%	47%	55%	50%	50%	53%	55%	51%	51%	50%
	Low	25%	29%	27%	32%	28%	34%	31%	28%	26%	32%	25%	30%
	None	4%	3%	2%	4%	2%	2%	3%	3%	2%	4%	4%	3%
	Don't know	3%	3%	2%	3%	2%	2%	3%	2%	3%	3%	3%	4%
	Total	225	798	712	633	1058	848	823	1833	1376	279	657	767
Q28f: Your Confidence in General Public?	High	0%	1%	1%	3%	1%	1%	1%	1%	2%	0%	0%	1%
	Medium	9%	5%	6%	9%	10%	8%	6%	9%	13%	10%	5%	5%
	Low	39%	44%	42%	37%	41%	46%	40%	44%	47%	38%	40%	41%
	None	47%	47%	48%	46%	44%	43%	49%	44%	34%	48%	53%	48%
	Don't know	4%	3%	3%	5%	4%	3%	4%	3%	4%	4%	2%	5%
	Total	223	799	714	632	1053	853	822	1838	1384	278	657	770
Q28g: Your Confidence in Commercial Duck Clubs?	High	14%	10%	12%	7%	10%	11%	12%	11%	9%	15%	14%	12%
	Medium	28%	35%	34%	27%	31%	36%	33%	30%	28%	34%	40%	30%
	Low	35%	33%	32%	35%	35%	33%	37%	34%	33%	32%	30%	33%
	None	16%	18%	15%	27%	21%	16%	14%	20%	24%	14%	12%	19%
	Don't know	7%	5%	7%	4%	3%	4%	4%	5%	6%	5%	3%	7%
	Total	223	798	716	629	1046	853	820	1839	1381	279	654	768
Q28h: Your Confidence in Conservation Groups?	High	54%	63%	59%	27%	60%	55%	53%	57%	48%	55%	56%	50%
	Medium	31%	24%	28%	40%	28%	33%	30%	31%	36%	25%	29%	30%
	Low	6%	8%	7%	19%	8%	8%	7%	7%	8%	11%	8%	9%
	None	6%	1%	4%	12%	3%	2%	6%	3%	5%	4%	4%	6%
	Don't know	4%	4%	3%	2%	1%	2%	3%	2%	4%	6%	2%	5%
	Total	222	804	721	640	1055	857	828	1845	1384	279	663	777

Appendix G: Results of NDHS by Sub-Flyway

		Sub-Flyway											
		LAF	MAF	UAF	LMF	MMF	UMF	LCF	MCF	UCF	LPF	MPF	UPF
Q28i: Your Confidence in Flyway Councils?	High	27%	30%	28%	20%	31%	24%	28%	27%	24%	26%	25%	23%
	Medium	44%	43%	42%	38%	43%	45%	43%	45%	44%	43%	45%	42%
	Low	12%	12%	11%	23%	13%	16%	11%	11%	14%	10%	14%	13%
	None	2%	2%	3%	8%	2%	5%	3%	2%	3%	3%	3%	4%
	Don't know	15%	13%	15%	12%	11%	11%	15%	14%	15%	18%	14%	19%
	Total	223	794	714	634	1051	850	822	1827	1376	278	655	769
Q28j: Your Confidence in Outdoor writers/TV personalities?	High	8%	6%	5%	5%	6%	7%	7%	6%	6%	6%	5%	5%
	Medium	36%	36%	35%	30%	30%	34%	34%	35%	32%	34%	34%	30%
	Low	36%	35%	37%	42%	40%	38%	35%	35%	38%	38%	34%	36%
	None	13%	17%	18%	20%	17%	16%	19%	18%	18%	16%	21%	22%
	Don't know	8%	5%	5%	4%	5%	4%	5%	6%	6%	7%	5%	7%
	Total	222	800	715	636	1050	850	825	1839	1379	278	657	767
Q28k: Your Confidence in Duck hunting guides?	High	23%	17%	19%	15%	16%	15%	23%	14%	11%	15%	19%	16%
	Medium	41%	43%	41%	38%	40%	36%	39%	37%	31%	41%	40%	37%
	Low	21%	27%	26%	30%	27%	33%	25%	31%	31%	24%	24%	28%
	None	8%	8%	7%	13%	11%	11%	9%	12%	20%	12%	10%	12%
	Don't know	7%	4%	6%	4%	6%	6%	4%	6%	6%	8%	7%	6%
	Total	223	799	721	636	1059	855	827	1848	1388	280	663	775
q28l: Your Confidence in Wildlife Agencies?	High	28%	24%	25%	26%	27%	19%	34%	27%	30%	22%	19%	20%
	Medium	47%	47%	49%	47%	47%	51%	42%	47%	48%	47%	45%	42%
	Low	17%	22%	19%	20%	20%	20%	17%	17%	15%	21%	23%	24%
	None	3%	4%	3%	4%	3%	6%	3%	4%	3%	6%	8%	8%
	Don't know	5%	4%	3%	2%	3%	3%	4%	5%	4%	5%	5%	5%
	Total	223	803	722	636	1058	854	826	1846	1384	280	662	774

Appendix G: Results of NDHS by Sub-Flyway

		Sub-Flyway											
		LAF	MAF	UAF	LMF	MMF	UMF	LCF	MCF	UCF	LPF	MPF	UPF
Q29: Do you access the internet to look up duck hunting information?	Frequently	25%	21%	18%	22%	26%	12%	23%	23%	12%	19%	26%	12%
	Once in a while	54%	49%	50%	52%	50%	45%	55%	46%	46%	51%	45%	44%
	Not at all	21%	29%	32%	26%	24%	43%	21%	31%	43%	30%	29%	44%
	Total	227	809	728	644	1065	856	832	1861	1397	282	666	781
Q30: \$\$ you spend on duck hunting each year	\$250 or less	33%	35%	48%	20%	32%	46%	35%	41%	46%	38%	12%	41%
	\$251-\$1000	45%	46%	41%	45%	48%	44%	50%	43%	46%	40%	39%	45%
	\$1001-\$5000	20%	17%	10%	29%	20%	8%	14%	14%	8%	19%	39%	12%
	Over \$5000	3%	2%	1%	6%	1%	1%	2%	1%	1%	2%	10%	2%
	Total	227	803	724	642	1063	851	827	1855	1394	281	661	776
Q31: Please indicate your sex:	Male	99%	99%	99%	99%	99%	98%	99%	98%	98%	97%	98%	99%
	Female	1%	1%	1%	1%	1%	2%	1%	2%	2%	3%	2%	1%
	Total	227	801	726	640	1053	853	832	1858	1385	275	660	770
Q32: Your age:	24 or under	12%	12%	10%	9%	9%	12%	13%	12%	21%	15%	10%	16%
	25-44	50%	42%	38%	44%	42%	42%	41%	40%	32%	48%	35%	33%
	45-64	33%	38%	45%	42%	42%	39%	39%	41%	38%	29%	45%	41%
	65 or over	5%	7%	7%	5%	6%	6%	7%	7%	9%	8%	10%	10%
	Total	223	807	727	646	1059	854	833	1857	1394	282	668	777

Appendix H: Tables of Sampling Tolerances

Sampling Error of a Percentage

All surveys are subject to sampling error (or sampling fluctuations), or the difference between the results obtained from a sample and results obtained by surveying the entire population. Sampling error of a percentage—(1) varies with the number of respondents (“base sample size”), and (2) with the division of opinion on a particular question. In other words—(1) when sub-sets of the total sample are studied, the amount of sampling error *increases* based on the sample size within the subset, and (2) it *varies* with the size of the percentage being estimated (as demonstrated in Table H1).

Now, apply these insights to real data from the NDHS, using the following data table, and table of sampling tolerances adapted for the NDHS in Table H2. (Table H3 was prepared for states that requested “over-sampling” in association with the NDHS).

		Q4: Over the last five years, about how many ducks did you usually harvest in a year?					Total
		5 or less	6 to10	11 to 20	21 to 50	>50	
Flyway	Atlantic	20%	27%	27%	19%	7%	1764
	Missi'ippi	16%	22%	27%	25%	11%	2578
	Central	14%	20%	30%	27%	9%	4089
	Pacific	9%	18%	25%	30%	19%	1724
	USA	15%	22%	27%	25%	11%	10155

Note the above difference in percentage points between the number (5 or less) of ducks that hunters in the Atlantic Flyway harvest in a usual year (over the last 5 years), and the number (5 or less) of ducks that hunters in the Pacific Flyway harvest in a usual year (over the last 5 years). Specifically, the absolute difference is (20%-9%) or 11 percentage points. However, a confidence interval should be applied to both estimates (see Table H2)--in the case of the Atlantic estimate (that is near 20%), plus/minus 2 percentage points (18% to 22%, 95% confidence interval); and in the case of the Pacific estimate (that is near 10%), plus/minus 2 percentage points (7% to 11%, 95% confidence interval).

In Easy English, we can conclude with considerable confidence that duck hunters in the Pacific Flyway, as a group, are less likely than Atlantic duck hunters to harvest “5 ducks or less”—and that this difference amounts to at least 7 percentage points (18% (the low value of the Atlantic confidence interval) minus 11% (the high value of the Pacific confidence interval)).

Or, in more precise English, we can conclude that in 95 of 100 samples of 1724 Pacific FW duck hunters, the true value of Pacific hunters who harvest “5 or less ducks” would be captured within the interval of 7-11%, and in 95 of 100 samples of 1764 Atlantic FW duck hunters, the true value of Atlantic hunters who harvest “5 or less ducks” would be captured within the interval of 18-22%)

...and, in another example, conclude also that duck hunters in the Pacific Flyway, as a group, are more likely than Atlantic hunters to harvest “more than 50” ducks—again, assigning the appropriate confidence intervals to, first, the point estimate of the Atlantic FW (7% (that is near 10%)—a sampling tolerance of 1 percentage point (6% to 8%, 95% confidence interval)); and to the Pacific FW, (19% (that is near 20%)—a sampling tolerance of 2 percentage points (17% to 21%, 95 confidence interval))—concluding that this difference amounts to at least 9 percentage points (17% (the low value of the Pacific confidence interval) minus 8% (the high value of the Atlantic confidence interval)).

...NOW....**SO WHAT!?**

What’s the practical importance of, say, this “real” 9 percentage-point difference? Rarely is the question of “practical” importance given any consideration—but it’s essential here.

Human dimensions provide **clues** to better informed conservation management—**not answers**.

Appendix H: Tables of Sampling Tolerances

This 9% difference likely doesn't *answer* any pressing issue of cosmic (or closer to home, Flyway) importance...but it likely provides helpful or illuminating insights or clues to real happenings in the lives of duck hunters across the various Flyways. These data (these bits of hunter information, perceptions, inclinations, behavior, opinions) are best "used" when they're tucked into the back (but not too far back) of our minds. Only then can these data take their rightful place at the right and appropriate moment in, say, a future regulations committee meeting, where many inputs—biological data, management philosophy of an agency/s or commission/s, fiscal constraints, legislative climate...and yes, human dimensions data—will be blended to achieve a conservation decision that represents exemplary public service.

TABLE H1. *Recommended Allowance for Sampling Error of a Percentage (Plus/Minus in percentage points (at 95% confidence level); adapted from Arkin & Colton, 1963^a; and The Gallup Organization, 2002^b).*

<u>Base Sample Size Near:</u>	5/95%	10/90%	20/80%	30/70%	40/60%	50/50%
100	4.3	5.9	7.9	9.0	9.7	9.8
200	3.0	4.2	5.6	6.4	6.8	6.9
300	2.5	3.4	4.5	5.2	5.6	5.7
400	2.1	2.9	53.9	4.5	4.8	4.9
500	1.9	2.6	3.5	4.0	4.3	4.4
600	1.7	2.4	3.2	3.7	3.9	4.0
800	1.5	2.1	2.8	3.2	3.4	3.5
1000	1.4	1.9	2.5	2.8	3.0	3.1
1500	1.1	1.5	2.0	2.3	2.5	2.5
2000	.96	1.3	1.8	2.0	2.1	2.2
2500	.85	1.2	1.6	1.8	2.0	2.0
3000	.78	1.1	1.4	1.6	1.8	1.8
4000	.68	.90	1.2	1.4	1.5	1.5
5000	.60	.80	1.2	1.3	1.3	1.4
6000	.55	.76	1.0	1.2	1.2	1.3

^aArkin, H., and R.R. Colton, 1963. Tables for statisticians. New York: Barnes & Noble, 168pp.

^bThe Gallup Organization, 2002. National survey of drinking and driving attitudes and behavior: 2001. Vol. II- Methods Report, Nov. 2002, The Gallup Organization, 901 F. St. NW, Washington, D.C. 20004.

Appendix H: Tables of Sampling Tolerances

TABLE H2. Recommended Allowance for Sampling Error of a Percentage, National Duck Hunter Survey 2005 (Plus/Minus in percentage points (at 95% confidence level); adapted from Arkin & Colton, 1963^a; and The Gallup Organization, 2002^b).

<u>Sample Sizes Near:</u>	5/95%	10/90%	20/80%	30/70%	40/60%	50/50%
USA (~10,220)	<1	<1	<1	1	1	1
Atlantic FW (~1770)	1	2	2	2	3	3
Miss'ippi FW (~2580)	<1	1	2	2	2	2
Central FW (~4120)	<1	<1	2	2	2	2
Pacific (~1740)	1	2	2	2	3	2
Lower AT (~230)	3	4	6	6	7	7
Middle AT (~810)	2	2	3	3	3	4
Upper AT (~730)	2	2	3	4	4	4
Lower MS (~650)	2	2	3	4	4	4
Middle MS (~1070)	1	2	3	3	3	3
Upper MS (~860)	2	2	3	3	3	4
Lower CN (~830)	2	2	3	3	3	4
Middle CN (~1870)	1	2	2	2	3	3
Upper CN (~1410)	1	2	3	3	3	3
Lower PC (~280)	3	4	6	6	7	7
Middle PC (~670)	2	2	3	4	4	4
Upper PC (~780)	2	2	3	4	4	4

^aArkin, H., and R.R. Colton, 1963. Tables for statisticians. New York: Barnes & Noble, 168pp.

^bThe Gallup Organization, 2002. National survey of drinking and driving attitudes and behavior: 2001. Vol. II- Methods Report, Nov. 2002, The Gallup Organization, 901 F. St. NW, Washington, D.C. 20004.

Appendix H: Tables of Sampling Tolerances

TABLE H3. Recommended Allowance for Sampling Error of a Percentage, National Duck Hunter Survey 2005, Hunter Choice States and “Over-Sampled” States (Plus/Minus in percentage points (at 95% confidence level); adapted from Arkin & Colton, 1963, *Tables for Statisticians*, Barnes & Noble, 168 pp.; and The Gallup Organization, 2002).

Sample Sizes Near:	5/95%	10/90%	20/80%	30/70%	40/60%	50/50%
MTCentral (~420)	2	3	4	5	5	5
ND (~500)	2	3	4	4	4	4
SD (~480)	2	3	4	5	5	5
CO (~480)	2	3	4	5	5	5
KS (~410)	2	3	4	5	5	5
NE (~540)	2	3	4	4	4	4
WY (~420)	2	3	4	5	5	5
NM (~190)	4	6	8	9	10	10
OK (~400)	2	3	4	5	5	5
TX (~240)	3	4	6	6	7	7
AR (~340)	3	3	5	5	6	6
IA (~556)	2	3	4	4	4	4
MD (~380)	3	3	5	5	6	6
TN (~136)	4	4	8	9	10	10
WI (~500)	2	3	4	4	4	4

^aArkin, H., and R.R. Colton, 1963. *Tables for statisticians*. New York: Barnes & Noble, 168pp.

^bThe Gallup Organization, 2002. National survey of drinking and driving attitudes and behavior: 2001. Vol. II- Methods Report, Nov. 2002, The Gallup Organization, 901 F. St. NW, Washington, D.C. 2004