Subsistence Migratory Bird Harvest Survey

Yukon - Kuskokwim Delta
2001 – 2005

Photo credit: Dave Menke, USFWS
SUBSISTENCE MIGRATORY BIRD HARVEST SURVEY

YUKON–KUSKOKWIM DELTA

2001-2005
With 1985-2005 Species Tables

by
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DEDICATION

This report is dedicated to my longtime friend Mary Ciuniq Pete of Bethel, and to my colleagues Molly Uuyurasuq Chythlook of Dillingham and Ferdinand Capenaq Sharp of Manakotak. I have been especially inspired and guided by the integrity and wisdom of these fine people as they work to protect the Yup’ik subsistence culture of western Alaska. I hope this report will add to their efforts and the efforts of others, in protecting the birds on which the subsistence way of life depends.
# TABLE OF CONTENTS

Dedication..................................................................................................................... iii
List of tables.................................................................................................................. v
List of appendix tables............................................................................................... vi
Acknowledgements ..................................................................................................... ix
Introduction.................................................................................................................. 12
Methods: How we do the survey.................................................................................. 15
Results and Discussion............................................................................................... 20
Literature cited ............................................................................................................. 31
Appendix A . Survey forms and other OMB forms .................................................... 44
Appendix B . Comprehensive Data............................................................................. 60
Appendix C . Population and village household survey participation, Yukon-Kuskokwim Delta, 2001-2005................................................................. 70
Appendix D Detailed harvest estimates by species..................................................... 80
Appendix F Yup’ik names and pronunciation of Yukon-Kuskokwim Delta birds....... 194
LIST OF TABLES

Table 1. Migratory bird subsistence harvest estimates Yukon-Kuskokwim Delta 1985-2005 ........................................................................................................................... 32
Table 2. Migratory bird subsistence harvest estimates 2001-2005 with 4-year averages, Yukon-Kuskokwim Delta.................................................................................................................. 36
Table 3. Egg subsistence harvest estimates Yukon-Kuskokwim Delta 1985-2005 ........ 37
Table 4 Egg subsistence estimates 2001-2005 with 4-year averages, Yukon-Kuskokwim Delta .......................................................................................................................... 41
Table 5. Subsistence migratory bird harvest survey villages, Yukon-Kuskokwim Delta 1985-2005 .................................................................
## LIST OF APPENDIX TABLES

Table B-1 Average usable weight (pounds) of birds & eggs reported in subsistence harvest surveys, Yukon-Kuskokwim Delta

Table B-2 Migratory bird subsistence harvest estimates (pounds) Yukon-Kuskokwim Delta, 2001-2005

Table B-3 Migratory bird subsistence harvest estimates, Yukon-Kuskokwim Delta, 1990-1994

Table B-4 Migratory bird subsistence harvest estimates, Yukon-Kuskokwim Delta, 1995-2000

Table B-5 Egg subsistence harvest estimates, Yukon-Kuskokwim Delta, 1995-2000

Table B-6 Average bird harvest estimates by survey period, Yukon-Kuskokwim Delta 2001-2005

Table B-7 Average bird harvest estimates by sub-region, Yukon-Kuskokwim Delta, 2001-2005

Table B-8 Average egg harvest estimates by survey period, Yukon-Kuskokwim Delta 2001-2005

Table B-9 Average egg harvest estimates by sub-region, Yukon-Kuskokwim Delta, 2001-2005

Table C-1 Population, total households by hunting category, and households sampled by survey period, Yukon-Kuskokwim Delta 2001

Table C-2 Population, total households by hunting category, and households sampled by survey period Yukon-Kuskokwim Delta, 2002

Table C-3 Population, total households, and households sampled by hunting category, Yukon-Kuskokwim Delta, 2004

Table C-4 Population, total households by hunting category, and households sampled by survey period. Yukon-Kuskokwim Delta, 2005

Table C-5 Village and household response rates, Yukon-Kuskokwim Delta 2001-2005

Table D-1 Detailed harvest estimates, White-fronted Goose, 1985-2005

Table D-2 Detailed harvest estimates, Cackling Canada Goose, 1985-2005

Table D-3 Detailed harvest estimates, Lesser Canada goose, 1985-2005

Table D-4 Detailed harvest estimates, Lesser Snow Goose, 1985-2005

Table D-5 Detailed harvest estimates, Emperor Goose, 1985-2005

Table D-6 Detailed harvest estimates, Black Brant, 1985-2005

Table D-7 Detailed harvest estimates, Tundra Swan, 1985-2005

Table D-8 Detailed harvest estimates, Sandhill Crane, 1985-2005

Table D-9 Detailed harvest estimates, Northern Pintail, 1985-2005

Table D-10 Detailed harvest estimates, Mallard, 1985-2005

Table D-11 Detailed harvest estimates, unidentified duck, 1985-2005

Table D-12 Detailed harvest estimates, American Wigeon, 1985-2005

Table D-13 Detailed harvest estimates, Northern Shoveler, 1985-2005

Table D-14 Detailed harvest estimates, Green-winged Teal, 1985-2005

Table D-15 Detailed harvest estimates, Bufflehead, 1985-2005

Table D-16 Detailed harvest estimates, Harlequin, 1985-2005

Table D-17 Detailed harvest estimates, Greater Scaup, 1985-2005
| Table D-18 | Detailed harvest estimates, Goldeneye, 1985-2005 | 115 |
| Table D-19 | Detailed harvest estimates, Canvasbacks, 1985-2005 | 117 |
| Table D-20 | Detailed harvest estimates, Long-tailed Duck, 1985-2005 | 119 |
| Table D-21 | Detailed harvest estimates, White-winged Scoter, 1985-2005 | 121 |
| Table D-22 | Detailed harvest estimates, Black Scoter, 1985-2005 | 123 |
| Table D-23 | Detailed harvest estimates, Surf Scoter, 1985-2005 | 125 |
| Table D-24 | Detailed harvest estimates, Common Eider 1985-2005 | 127 |
| Table D-25 | Detailed harvest estimates, King Eider, 1985-2005 | 129 |
| Table D-26 | Detailed harvest estimates, Spectacled Eider, 1985-2005 | 131 |
| Table D-27 | Detailed harvest estimates, Stellers Eider, 1985-2005 | 133 |
| Table D-28 | Detailed harvest estimates, Common Merganser, 1985-2005 | 135 |
| Table D-29 | Detailed harvest estimates, Red-breasted Merganser, 1985-2005 | 137 |
| Table D-30 | Detailed harvest estimates, Ptarmigan, 1985-2005 | 139 |
| Table D-31 | Detailed harvest estimates, Spruce Grouse 1985-2005 | 141 |
| Table D-32 | Detailed harvest estimates, Yellow-billed Loon, 1985-2005 | 143 |
| Table D-33 | Detailed harvest estimates, Red-throated Loon, 1985-2005 | 145 |
| Table D-34 | Detailed harvest estimates, Common Loon, 1985-2005 | 147 |
| Table D-35 | Detailed harvest estimates, Arctic Loon, 1985-2005 | 149 |
| Table D-36 | Detailed harvest estimates, Common Murre, 1985-2005 | 151 |
| Table D-37 | Detailed harvest estimates, small shorebirds, 1985-2005 | 153 |
| Table D-38 | Detailed harvest estimates, Bristle-thighed Curlew, 1985-2005 | 155 |
| Table D-39 | Detailed harvest estimates, Whimbrel, 1985-2005 | 157 |
| Table D-40 | Detailed harvest estimates, Large shorebirds, 1985-2005 | 159 |
| Table D-41 | Detailed harvest estimates, Mew Gull, 1985-2005 | 161 |
| Table D-42 | Detailed harvest estimates, Sabine's Gull 1985-2005 | 163 |
| Table D-43 | Detailed harvest estimates, Glaucous Gulls, 1985-2005 | 165 |
| Table D-44 | Detailed harvest estimates, Arctic Tern, 1985-2005 | 167 |
| Table E-1 | Bird harvest estimates by survey period, Yukon-Kuskokwim Delta, 1995 | 170 |
| Table E-2 | Bird harvest estimates by region, Yukon-Kuskokwim Delta, 1995 | 171 |
| Table E-3 | Egg harvest estimates by survey period, Yukon-Kuskokwim Delta, 1995 | 172 |
| Table E-4 | Egg harvest estimates by region, Yukon-Kuskokwim Delta, 1995 | 173 |
| Table E-5 | Bird harvest estimates by survey period, Yukon-Kuskokwim Delta, 1996 | 174 |
| Table E-6 | Bird harvest estimates by region, Yukon-Kuskokwim Delta, 1996 | 175 |
| Table E-7 | Egg harvest estimates by survey period, Yukon-Kuskokwim Delta, 1996 | 176 |
| Table E-8 | Egg harvest estimates by region, Yukon-Kuskokwim Delta, 1996 | 177 |
| Table E-9 | Bird harvest estimates by survey period, Yukon-Kuskokwim Delta, 2001 | 178 |
| Table E-10 | Bird harvest estimates by sub-region, Yukon-Kuskokwim Delta, 2001 | 179 |
| Table E-11 | Egg harvest estimates by survey period, Yukon-Kuskokwim Delta, 2001 | 180 |
| Table E-12 | Egg harvest estimates by sub-region, Yukon-Kuskokwim Delta, 2001 | 181 |
| Table E-13 | Bird harvest estimates by survey period, Yukon-Kuskokwim Delta, 2002 | 182 |
| Table E-14 | Bird harvest estimates by sub-region, Yukon-Kuskokwim Delta, 2002 | 183 |
| Table E-15 | Egg harvest estimates by survey period, Yukon-Kuskokwim Delta, 2002 | 184 |
| Table E-16 | Egg harvest estimates by sub-region, Yukon-Kuskokwim Delta, 2002 | 185 |
| Table E-17 | Bird harvest estimates by season, Yukon-Kuskokwim Delta, 2004 | 186 |
| Table E-18 | Bird harvest estimates by sub-region, Yukon-Kuskokwim Delta, 2004 | 187 |
| Table E-19 | Egg harvest estimates by season, Yukon-Kuskokwim Delta, 2004 | 188 |
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The following is a list of the village harvest surveyors who gathered the data on which this report is based:

South Coast:        Kipnuk        Sarah Mayela, Curtis Paul, Ronnie Peter
                   Kongiganak    Nick John
                   Tuntutuliak   Jimmy Lupie, Samantha Wasillie
                   Eek           Carl White Jr., John Wharton

Mid-Coast:         Hooper Bay     Jerry Moses, Agnes Carl
                   Chevak         Valerie Pingayak, Leonard Ayuluk
                   Toksook Bay    Bernice Therchik-Pitka
                   Scammon Bay   Roberta Bell
                   Chefornak      Alexie Flynn
                   Tununak        Elsie Hooper
                   Newtok         John Roy John
                   Nightmute      Elizabeth Agnes, Genevieve Anthony
                   Mekoryuk       Viva Smith, Sonya Weston

North Coast:        Emmonak        Allen Moore, Albert Moore
                    Alakanuk       Hilda Stern
                    Kotlik         Benedict Aparezuk
                    Nunam Iqua     Catherine Kromwall, Vanessa Hunter

Kuskokwim:        Kwethluk        Henrietta Nicolai, Bessie Nicori
                  Aniak           Ralph Kvamme, Teal Albertson,
                                  Nick Kameroff
                  Akiachak       Brian Latham
                  Kasigluk       Steven Kinegak
                  Nunapitchuk    Eddie Alexie, Jason Twitchell
                  Tuluksak       Larry Lamont
Napakiak    Anna Middleton
Napaskiak   Richard Larson, Jr., Wassillie Guy
Akiak       Carol Hoaglund
Lower Kalskag Olga Evan
Atmautluak  Ralph Pavilla, Nelson “Rocky” Nicolai
Upper Kalskag Frank One
Oscarville  Matthew Jacob

Yukon:
Mt. Village Valerie Waskey, Bolvania Moses
Pilot Station June Alick, Priscilla Heckman
St. Mary’s   Christopher Mike and Willie Elia,
             Vincent Kinzey
Marshall    Ellen Alstrom
Russian Mission Simeon Housler
Pitka’s Point Jimmy Kozevnikoff

Bethel:
Henry and Connie Peter
Jimmy Andrew and other
Refuge Information Technicians

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INTRODUCTION


The subsistence harvest survey on the Yukon-Kuskokwim (Y-K) Delta, in the area of the Yukon Delta National Wildlife Refuge, has been conducted area wide since 1985, except for 1988 and 2003, when no surveys were conducted. A summary table of harvest estimates and standard errors for both birds and eggs from 1985 through 2005 is included here (Tables 1, 3). Detailed harvest tables are also included for each species, with estimates by survey period and sub-region, from 1985 through 2005 (Tables D-1–D44).

As in previous years since 1989, the Y-K Delta harvest survey was conducted by Native employees (Refuge Information Technicians and other employees) of the Yukon Delta National Wildlife Refuge, with assistance from the Subsistence Migratory Bird Harvest Survey Coordinator, Migratory Birds and State Programs, Alaska Migratory Bird Co-Management Council, Anchorage. The Native employees of the Refuge conducted the survey in conjunction with annual environmental, public outreach programs. The survey was conducted under the auspices of the Y-K Delta Goose Management Plan (YKDGMP), with support from the Association of Village Council Presidents’ (AVCP) Waterfowl Conservation Committee.

The subsistence harvest survey on the Y-K Delta includes a 38 village area (Figure 1). The southernmost villages of the Delta, Quinhagak, Goodnews Bay, and Platinum, are considered part of the Togiak National Wildlife Refuge area and are included in the Togiak subsistence migratory bird harvest survey, which has been conducted since 1995. These Togiak data are included in separate reports on Bristol Bay subsistence migratory bird harvests (Seim and Wentworth, 1996; Norvell and Wentworth, 2004; Wentworth, 2007).

When evaluating Y-K Delta harvest trends from 1985 through 2005, is it important to note that methodology for the harvest survey changed beginning in 2001. Further changes were implemented in 2002. This means that data collected after 2000 (the focus of this report) are not directly comparable with prior years’ data (1985-2000). Also, data collected in 2002, 2004, and 2005 are not directly comparable with data collected in 2001.

The reasons for the changes have to do with the Migratory Bird Treaty Act (MBTA) Protocol Amendment (1995), the formation of the Alaska Migratory Bird Co-Management Council (AMBCC) (2000) and the resulting legalization of spring hunting (2003). The MBTA protocol amendment provides for the customary and traditional use of migratory birds and their eggs by Alaska’s indigenous inhabitants. The letter of submittal which accompanies the Amendment, calls for the creation of management bodies “to ensure an effective and meaningful role for indigenous inhabitants in the conservation of migratory birds. These management bodies will include Native, Federal and State of Alaska...
As a result of this treaty language, the AMBCC was formed, which consists of the US Fish and Wildlife Service (Service), the Alaska Department of Fish and Game (ADF&G), and eleven Native regional partner organizations. The AVCP Waterfowl Conservation Committee, which had been in existence on the Y-K Delta since the mid 1980’s, became AMBCC’s regional partner organization representing the Y-K Delta when the AMBCC was formed in April 2000.

The Protocol Amendment also states that it is not the intent of the Amendment to cause significant increases in the take of migratory bird species relative to their continental population sizes. The letter of submittal accompanying the Amendment states that harvest estimates will be collected cooperatively by the Service, ADF&G, and Native organizations within subsistence eligible areas: “These management bodies will develop recommendations for harvest monitoring… It is the intention of DOI/FWS and the ADF&G that management information, including traditional knowledge, the number of subsistence hunters and estimates of harvest, will be collected cooperatively for the benefit of management bodies.”

In late 2000, the AMBCC appointed a harvest survey technical committee to design a standardized, annual statewide harvest survey for the subsistence eligible areas of Alaska. Members of the committee wanted the new statewide survey to be accurate, precise, and to cover as many subsistence eligible areas as possible, all within budget constraints. Because the Y-K Delta survey had been conducted since 1985, because it had always been conducted under the auspices of the Y-K Delta Goose Management Plan with support from the AVCP Waterfowl Conservation Committee, and because almost half of statewide spring harvest occurs on the Y-K Delta, the Y-K Delta survey became the logical prototype on which to base a statewide survey design.

Meanwhile, the harvest survey committee learned from the national harvest survey program that there were ways to make the Y-K Delta survey more accurate and efficient, and that these improved methodologies could also be used in a statewide survey design. Therefore, after input from the Refuge Information Technicians at a Bethel meeting in January 2001, changes in survey methodology were begun on the Y-K Delta and in Bristol Bay in 2001. After a harvest survey committee statistical workshop in December 2001, further changes were implemented in 2002 on the Delta, in Bristol Bay, and the Bering Strait Region. No survey was conducted in 2003, because the federal Office of Management and Budget (OMB) had to approve the proposed statewide survey design and new survey forms. This OMB approval was secured in October 2003. Also in October 2003, the AMBCC adopted the statewide survey design recommended by its harvest survey committee. As a result, in 2004 the changes implemented on the Delta in 2001 and 2002 were applied statewide (See Methods: How We Do the Survey”).

The federal Office of Management and Budget (OMB) re-approved the survey in January 2007. This means that OMB approval is good for three more years: until January 2010. Before 2010, it will again be necessary to demonstrate that the survey is following the statewide survey design with statistically correct procedures, and has statistically adequate response rates.

For more detailed information on the environmental and socioeconomic setting of the Y-K Delta, the Yup’ik names of the birds, and the background and purposes of the survey, please
METHODS: HOW WE DO THE SURVEY

The subsistence migratory bird harvest survey is conducted each year by the Yukon Delta National Wildlife Refuge in Bethel, with help from the Subsistence Migratory Bird Harvest Survey Coordinator, Alaska Migratory Bird Co-Management Council (AMBCC), Anchorage. Yukon Delta Refuge Information Technicians establish contracts and train local surveyors in each village who then distribute and collect the survey forms. Local harvest surveyor training usually occurs on the same village visit at which the Refuge Information Technician conducts a local environmental outreach program. Surveyors are paid when they provide the Service with completed survey forms. The Refuge Information Technicians and almost all of the surveyors are bilingual, speaking both English and Yup’ik. All of the surveyors are local residents of their villages.

The Migratory Bird Harvest Survey Coordinator provides overall direction for the survey and for similar surveys in other parts of Alaska, following the statewide methodology adopted by the AMBCC in October 2003. The Alaska Department of Fish and Game, (ADF&G) Division of Subsistence Data Management staff inputs the data and generates the harvest estimates. The Harvest Survey Coordinator analyzes the data and writes the reports.

The Harvest Survey Field Coordinator, who is a Refuge Information Technician or other Native employee on the staff at the Yukon Delta National Wildlife Refuge, supervises the harvest surveyor contracting process, and assists surveyors and processes the paperwork necessary to pay them.

Approval for conducting the harvest survey occurs at three levels, at the regional level by AVCP, at the village level, and at each household. All three must agree to participate before data are actually collected from a particular household.

The Delta is divided into six sampling sub-regions, or strata, based on ecology and geography. The coastal area is divided into the north, mid, and south coast sub-regions, and the interior area into the Yukon River, Kuskokwim River, and Bethel sub-regions (Figure 1). The community of Bethel is its own sub-region and is surveyed every year.

As stated under “Introduction”, methodology for the survey changed beginning in 2001. Further changes were implemented in 2002. These changes were recommended by the AMBCC’s harvest survey committee and adopted by the AMBCC as part of the Statewide survey beginning in 2004. This means that data collected after 2000 (the focus of this report) are not directly comparable with prior years’ data (1985-2000). Also, data collected in 2002, 2004, and 2005 are not directly comparable with data collected in 2001. (A survey was not conducted in 2003).

From 1995 through 2001, the harvest survey covered the period from April 8 until October 15 of every year. These dates approximate the time that waterfowl are present on the Delta, although timing varies somewhat each year depending on weather and other factors. Data were collected over five survey periods that were designed to roughly correspond to major events in the birds' life cycle:
Survey Period | Dates | Life Cycle Event
---|---|---
Spring | April 8 - May 20 | arrival and pre-nesting
Early Summer | May 21 - June 24 | nesting and incubation
Mid Summer | June 25 - July 29 | brood rearing
Late Summer | July 30 - August 31 | molting and early flight
Fall | September 1 - October 15 | staging and departure

Life cycle events also vary depending on weather and related environmental conditions such as snow melt, time of breakup of rivers and lakes, and freezing of lakes (Copp and Roy 1986).

In 2002, the period of the harvest survey was expanded slightly, beginning on April 1 instead of April 8 and ending October 31 instead of October 15. In addition, the number of survey periods was reduced from five to three, and the dates of the survey periods were changed. These changes were made as part of the development of the statewide survey design, in order to more accurately and efficiently measure and compare subsistence harvest statewide.

Beginning in 2002, the new survey periods and dates are as follows:

<table>
<thead>
<tr>
<th>Survey Period</th>
<th>Dates</th>
<th>Life Cycle Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring</td>
<td>April 1 – June 30</td>
<td>arrival and pre-nesting, nesting and incubation</td>
</tr>
<tr>
<td>Summer</td>
<td>July 1 - August 31</td>
<td>brood rearing, molting and early flight</td>
</tr>
<tr>
<td>Fall</td>
<td>Sept 1 – October 31</td>
<td>staging and departure</td>
</tr>
</tbody>
</table>

It was recognized that the more precise information on the relative annual harvest occurring during nesting and brood rearing would be lost due to this reduction in the number of survey periods. However, given the need to survey more areas of the state without corresponding increases in the harvest survey budget, combined with 15 years of existing data showing the percentages of annual harvest occurring during nesting and brood rearing, it was felt that the benefits of this reduction outweighed the costs and also made the data more usable and comparable on a statewide basis.

From 1995 through 2001, the survey form consisted of five color-coded pages, one page for each of the five survey periods listed above. Each page of the form had black and white line drawings of the 40 species of birds included in the survey with spaces used to mark down the numbers of birds and eggs taken by each household (Wentworth, 2004, Appendix A).

Beginning in 2002, a new survey form was produced, using color images from the National Geographic Society’s Field Guide to the Birds of North America. This new form has three pages, one page for each of three survey periods: Spring, Summer, and Fall. Each page of
the form has color images for 49 bird species, plus images for “unidentified duck” and “other bird” (Appendix A).

Survey forms are identified by number only; no names are used on the survey forms. The household identified by each number is known only to the local surveyor in each village. No one in Bethel or Anchorage has the list of names of the households, therefore no household can be identified.

Village sampling scheme

From the beginning of this survey in 1985, through 2000, a random sample of villages was selected and asked to participate in the survey. We attempted to survey at least 24 of the Delta’s 38 villages each year between 1989 and 2000, with the number of villages to sample from each sub-region, based on that sub-region’s population relative to the total population of the Delta. The Native employees (Refuge Information Technicians, or RITs) drew each village name out of a hat and placed it into its sub-region until we reached the number of villages targeted for each sub-region. The following table shows the number of villages in each sub-region and the minimum number targeted for inclusion in the survey:

<table>
<thead>
<tr>
<th>Region</th>
<th>Number of Villages in Region</th>
<th>Number of Villages Targeted</th>
</tr>
</thead>
<tbody>
<tr>
<td>South Coast</td>
<td>5</td>
<td>3</td>
</tr>
<tr>
<td>Mid Coast</td>
<td>9</td>
<td>6</td>
</tr>
<tr>
<td>North Coast</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>Kuskokwim</td>
<td>13</td>
<td>7</td>
</tr>
<tr>
<td>Yukon</td>
<td>6</td>
<td>4</td>
</tr>
<tr>
<td>Bethel</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

We continued to select villages in this manner in 2001, surveying a total of 24 villages. In 2002, in an attempt to better understand village variance in preparation for a statewide survey, we attempted to survey all 38 Y-K Delta villages. We actually surveyed 30.

In 2004, a new village sampling scheme was adopted as part of the new statewide survey. Under this new sampling scheme, the villages in each sub-region were listed in order of their populations, from largest to smallest. Then the villages were numbered off, 1, 2, and 3. In 2004, the 1’s and 2’s were selected to be surveyed. In 2005, the 2’s and 3’s were selected. In 2006, the 1’s and 3’s were selected. This sampling scheme insures that two-thirds of the villages are targeted for the survey every year, and that every village is selected for the survey every other year.

This new village sampling scheme samples about the same number of villages (25 or 26 out of 38) as the former village sampling scheme (24 out of 38). In both sampling schemes, Bethel was and is surveyed every year because it is its own stratum (sub-region).
Household sampling scheme

From 1985 through 2000, households were sampled randomly, by drawing a certain percentage of them out of a hat. Our goal was to survey 25% of the households in each sub-region. Because we did not survey all of the villages in each sub-region, we needed to sample more than 25% of the households in each survey village. The percentage of households drawn was based on the number of villages participating in a particular sub-region, and the populations of those villages. For example, if three villages were targeted to be surveyed in a sub-region of five villages, if we drew the three villages with the largest populations, the percentage of households to survey was smaller than if we drew the villages with smaller populations. (To view this formula, and for a more detailed explanation of the harvest survey methodology from 1995 through 2000, please see Wentworth, 1998, Subsistence Waterfowl Harvest Survey, Yukon-Kuskoqwim Delta 1987-1997, Appendix B).

In 2001, we began a new sampling methodology, called activity stratification. We went to this new system because the Service’s Native employees (RITs) and the harvest survey committee of the AMBCC decided that this would result in a more accurate harvest survey which would more closely approximate the real number of birds taken for subsistence.

Activity stratification is more sensitive to and reflective of customary and traditional needs and practices than a simple random survey because it targets the high hunters: those who hunt for extended families or for the entire village. With activity stratification, there is much less chance that these food providers will be missed in any given year. As one long time former Yup’ik employee stated: “We need to catch more households who catch more birds”. Activity stratification also allows us to sample the rest of the village, including those that don’t usually hunt.

Another advantage of activity stratification is its cost effectiveness. It is more cost effective because not as many households need to be sampled in villages that don’t have many active hunters. This allows our limited survey budget to stretch further and survey more villages and regions of Alaska in any given year. Finally, because activity stratification is used for the national Migratory Bird Harvest Information Program, using it for the subsistence harvest survey too adds credibility to the subsistence survey and makes the data more directly comparable.

The Yukon Delta National Wildlife Refuge RITs recommended in January 2001, and the AMBCC’s harvest survey committee affirmed, that we should have three sampling categories: households who catch lots of birds (more than ten birds per year, all species combined); households who catch a few birds (between one and ten birds per year, all species combined); and households who do not hunt (0 birds per year). These are the same sampling categories that are used for waterfowl hunters all across the country, in the Migratory Bird Harvest Information Program (HIP), except that in HIP these hunting categories are used for individual species groups (ducks, geese, snipe, sea ducks, brant, and cranes).
In order to categorize the hunters, the village surveyor writes down all the households, on Form 1 (OMB Form 7-FW-100), with each household’s harvest level, None, Low, or High. Then the surveyor takes each household listed on Form 1, and transfers it to Form 2 (OMB Form 7-FW-101), categorizing it according to activity level, None (0 birds), Low (1-10 birds) or High (>10 birds). (Forms 1 and 2, Appendix A).

To select the households, the surveyor takes the Random Selection Overlay (clear mylar – see Appendix A) and overlays it on Form 2. The household numbers that are visible in the clear areas are those selected to be sampled. The surveyor writes an asterisk (*) next to each household selected. Then the surveyor goes to each household and asks for permission (Permission Slip, OMB Form 7-FW-102, Appendix A). If permission is granted, the surveyor leaves a harvest survey form to be collected at the end of the survey period. If the household decides not to participate, the surveyor writes a NO next to the asterisk (*) and selects an alternate household from the same activity level column. (For more detailed information on the household selection and selection of alternates, see the instructions on the Random Selection Overlay, Appendix A).

The Random Selection Overlay is designed to select 10% of the households in the “None” harvest category, 15% of the households in the “Low” harvest category, and 40% of the households in the “High” harvest category. In some cases it may be necessary to select more households so at least five households are selected from each column. If fewer than eight households are listed in any column, surveyors are instructed to select, at most, one-half of those listed. In cases with few households in a harvest category, the percentages sampled may exceed 10%, 15%, or 40%.

If the household agrees to participate in the survey, a “Yes” permission slip is filled out, and the household is given the three page survey form (OMB Form 7-FW-103, Appendix A). The surveyor returns at the end of each survey period, to collect each page of the form.

Sample survey results in each harvest category are expanded (multiplied) in order to estimate the total harvest for that harvest category. Then the expanded results from each category are added together to get the total harvest estimate for the village. Once estimates are calculated for the surveyed villages, they are expanded in a similar manner to generate a survey estimate for each sub-region. Finally, data from the six sub-regions are added to give a Delta-wide harvest total for each species.

The 2001 and 2002 data were entered into the computer by the Yukon Delta Refuge RITs, with assistance from the Harvest Survey Coordinator. The expanded estimates were generated by Stephanie Martin of the University of Alaska, Institute of Social and Economic Research (ISER). The 2004 and 2005 data were entered into the computer and expanded by ADF&G’s Division of Subsistence, Data Management staff, who also generated the estimates.
RESULTS AND DISCUSSION

Birds

An estimated annual average of 115,000 birds was taken for subsistence use on the Y-K Delta between 2001 and 2005 (No survey was conducted in 2003). Of the total harvest, 41,000 birds (36%) were geese, 46,600 (41%) were ducks, 4,500 (4%) were swans, 2,800 (3%) were cranes, 15,700 (14%) were ptarmigan and grouse, and 4,200 (4%) were other birds (primarily shorebirds, gulls and loons) (Table 2).

The average of 115,000 birds taken between 2001 and 2005 is the same as the 1995-2000 average of 115,000 birds. Both exceed the 1990-94 average of 98,000 birds. Between 2001 and 2005, harvests of geese, swans, and cranes were down from 1995-2000 averages, while harvests of ducks and shorebirds were higher than 1995–2000 averages (Tables 1, 2, B-3, B-4).

Converted to usable weights, the subsistence harvest of birds provided an average of 315,000 pounds of food annually to Y-K Delta residents between 2001 and 2005. Of the food harvested, 140,000 pounds (45%) were geese, 83,000 pounds (26%) were ducks, 51,000 pounds (16%) were swans, 19,000 pounds (6%) were cranes, 16,000 pounds (5%) were ptarmigan, and 6,000 pounds (2%) were other birds (Table B-2).

As indicated above, more ducks than geese were taken between 2001 and 2005. However, because most ducks have only one to one and one-half pounds of usable meat and geese have three or four pounds, geese provided almost twice as much meat as ducks. Similarly, even though tundra swans and sandhill cranes made up only 6% of the total bird harvest, they provided 22% of the meat – 85% as much meat as ducks - because each swan weighs more than ten pounds and each crane weighs approximately seven pounds (Table B-1).

In terms of per household measures, the annual estimated subsistence harvest of birds on the Y-K Delta amounted to 23 birds per household (8 geese, 10 ducks, 1 swan, three ptarmigan, and one other bird). By weight, the subsistence harvest provided about 64 pounds of meat per household (Table 2, B-2, C-4).

Geese: Six different goose species are taken on the Y-K Delta: Pacific white-fronted, lesser Canada, cackling Canada, emperor, black brant, and lesser snow geese. Of these species, snow geese are the only geese that do not nest on the Delta. Pacific white-fronted geese, cackling Canada geese, emperor geese, and black brant are all part of the Yukon-Kuskokwim Delta Goose Management Plan (YKDGMP) (Wentworth, 1998, pp. 88-96).

Since 2001, the total take of geese on the Y-K Delta has averaged 41,000. This compares with an average of 44,000 geese taken between 1995 and 2000, and 28,000 geese taken from 1990 through 1994. Average harvests of white-fronted geese and black brant were higher in the 2001-2005 period compared with the 1995-2000 period, and were almost twice as high as in the early 1990’s. Average cackling Canada goose harvests were slightly lower between 2001 and 2005 than between 1995 and 2000, but were still almost twice as high as the early 1990’s. On the other hand, average emperor goose harvests between 2001 and 2005 were much lower than in the previous five year periods: 1,162 geese (2001-2005)
compared with 1659 geese (1995-2000) and 2520 geese (1990-1994) (Tables 1, 2, B-3, B-4).

Data on both brant and emperor goose harvests are probably more accurate for the 2001-2005 period than in previous years. This is due to increased participation of south coast and mid coast villages, which are located in proximity to prime emperor and brant habitat and are presumed to harvest these species in greater numbers than other villages. Survey participation from mid coast villages increased markedly beginning in 1994. Participation from south coast villages was first statistically adequate in 2000, and was also statistically adequate in 2002, 2004, and 2005 (Table 5).

**Ducks:** Pintails, scoters, greater scaup, mallards, and king eiders were the principal duck species taken on the Delta between 2001 and 2005. These species accounted for 75% of all ducks taken during this time period. Other ducks typically taken in large numbers were wigeons, shovelers, canvasbacks, green-winged teals, goldeneyes, and long-tailed ducks (formerly called oldsquaws).

Average total duck harvest increased only slightly from the 1990's: 46,600 ducks (2001-2005) compared with 45,500 ducks average (1995-2000) and 43,000 ducks average (1990-1994) (Tables 1, 2, B-3, B-4). Spectacled and Steller’s eider ducks, both listed as threatened species pursuant to the Endangered Species Act of 1973, are taken in small numbers on the Delta (U.S. Fish and Wildlife Service 1993, 1997). The spectacled and Steller’s eider harvest estimates are based on reported takes from only a very few households, as these birds are now uncommon and the vast majority of households do not harvest them.

Mean harvests of spectacled eiders have declined since the early 1990’s, probably due partially to the environmental outreach programs conducted by the Yup’ik speaking Refuge Information Technicians in conjunction with this survey. Mean estimated take from 1990 through 1994 was 222 spectacled eiders, but dropped to 112 spectacled eiders between 1995 and 2000, and to 37 spectacled eiders between 2001 and 2005.

Mean Steller’s eider annual harvest estimate from 1990 to 1994 was 16 eiders, then rose to 51 Steller’s eiders (1995-2000), then was 40 Steller’s eiders between 2001 and 2005.

**Swans and Cranes:** Tundra swan harvests averaged 4,500 from 2001 through 2005, compared with 6,400 swans between 1995 and 2000, and 6,200 swans in the early 1990's. Reported harvests were especially high from 1994 to 1996, reaching 9,500 swans in 1995. Crane harvests averaged 2,800 from 2001 through 2005, 3600 cranes from 1995 through 2000, and 3,000 cranes from 1990 through 1994 (Tables 1, 2, B-3, B-4).

**Ptarmigan and Grouse:** Ptarmigan harvests have been highly variable over the course of this study. Harvets ranged from a low of 9,500 birds to a high of 30,700 birds in the early 1990's, but have been less variable since, averaging 16,000 birds per year in the late 1990’s and 15,500 birds per year between 2001 and 2005. Spruce grouse were added to the survey form in 2001. Spruce grouse harvests on the Y-K Delta appear to be relatively low, no higher than 500 birds per year, and occur primarily along the Kuskokwim River (Tables 1, 2, B-3, B-4, B-7).
Other Birds: Other birds taken, in relatively small numbers, include loons, gulls, terns and puffins, and shorebirds. In 2002, several species of shorebirds were added to the survey form, replacing the category “large shorebirds”. Large shorebird species added were bristle-thighed curlew, godwits, whimbrel, and golden plover. In 2002 and 2004, godwits were the large shorebirds taken in greatest numbers. It is reasonable to conclude that in 2001 and years preceding, most of the “large shorebirds” taken were probably godwits. These were probably bar-tailed godwits, since bar-tailed godwits are the godwits found on the Y-K Delta and taken by subsistence hunters (Tables 1, 2).

Because “large shorebirds” were replaced with individual large shorebird species on the survey form beginning in 2002, 2001-2005 harvest averages contain a small amount of double counting of large shorebirds and their eggs (Tables 2, 4, B-2).

Seasonality of Harvest

Spring, when birds first return to the tundra, is the most important time of the year for subsistence harvest of migratory birds. Between 2001 and 2005, 63% of the total annual migratory bird take occurred between April 1 and June 30 which is the Spring survey period (Table B-6). (When ptarmigan and grouse, which do not migrate, are included, this figure rises to 68% of total annual bird take).

During June, when birds begin to nest and become less accessible, hunting decreases sharply in most areas. Bird hunting drops to its lowest point during midsummer when birds are raising their young and people are busy with commercial and subsistence fishing activities. Hunting activity increases again in late August when staging and fall flight begin.

Surveys before 2002 broke the spring survey period of April 1 – June 30, into a spring (April 9 – May 20) and early summer (May 21 – June 24) survey period. (see Wentworth, Subsistence Migratory Bird Harvest Survey, Yukon-Kuskokwim Delta, 1995-2000). These pre-2002 surveys consistently showed that most of the spring birds were taken before May 20. Indeed, in 2001, 57% of the annual migratory bird take (not including ptarmigan and grouse) occurred between April 8 and May 20. Another 21% of the take took place between May 21 and June 24.

The fall survey period (September 1-October 31) is the second most important time after the spring survey period for hunting most migratory birds). From 2001-2005, 26% of migratory birds (not including ptarmigan and grouse) were harvested in the fall period. The remaining 11% of the annual bird take occurred during the summer period, which is July and August (Table B-6).

Although the date of September 1 divides the summer survey period from the fall survey period, some birds from the fall flight are harvested during the summer survey period, that is, July 1 - August 31. The proportion of total annual harvest taken after September 1 can vary substantially from year to year. For example, in 2001, only 14% of the total annual harvest occurred after September 1, whereas in 2005, 40% of the year’s take occurred after
September 1. In 2002 and 2004, the fall harvest represented 22% and 26% of total annual take respectively.

Seasonal hunting patterns vary somewhat depending on bird species, but spring is the most important hunting period for most species. From 2001 through 2005, most geese (69%) were taken in spring and fewer (21%) during the fall survey period. Also taken in spring were 60% of swans and 72% of cranes. Ptarmigan were hunted almost exclusively in late winter and spring, and spruce grouse were harvested mostly in the fall.

Seasonal hunting patterns are different for sea ducks and scaup than for dabbling ducks. Between 2001 and 2005, most sea ducks and scaup (83%) were taken in spring, and only 13% in fall. Almost all (95%) of king eider ducks were hunted in spring and early summer on their northward coastal migration. However, more dabbling ducks were taken in fall (46%) than in spring (35%), and 19% of dabbling ducks were taken during summer months (Table B-6).

Even though the fall survey period (September 1-October 31) is the second most important time for migratory bird hunting after spring, between 2001 and 2005, most migratory birds (74%) were harvested before September 1. This is significant because, until 2003, under terms of the Migratory Bird Treaty of 1916 between the U.S. and Canada, it was not legal to hunt most migratory birds between March 10 and September 1. A protocol amendment to the Treaty was ratified by the U.S. Senate on October 23, 1997 establishing a basis for spring hunting, and the Alaska Migratory Bird Co-Management Council (AMBCC) was formed in 2000 to recommend subsistence hunting regulations for the period between March 10 and September 1. In 2003, once a regulatory system was put in place, the first subsistence season opened. However, there is still a difference in the legal jurisdiction before September 1 and the legal jurisdiction after September 1. Subsistence hunting occurring before September 1 falls under the AMBCC and the new subsistence regulations, whereas subsistence hunting occurring after September 1, falls under the conventional, or “sport” regulatory system.

Between 2001 and 2005, 79% of geese, 72% of ducks, 67% of swans, and 83% of cranes, were taken before September 1. This represents an annual average of about 32,600 geese, 33,800 ducks, 3,100 swans, and 2,300 cranes taken during what was, until 2003, the closed season, a total of 71,800 migratory waterfowl and cranes.

The fall harvest between 2001 and 2005 averaged 8,500 geese, 13,100 ducks, 1,500 swans, and 500 cranes, a total of 23,600 migratory waterfowl and cranes. It follows that most YKDGMP species (79%) were harvested prior to the fall hunting period beginning September 1. (Emperor hunting is closed year round under the subsistence regulations, and has been closed since 1986 under the Y-K Delta Goose Management Plan) (Table B-6).

Finally, even though most migratory birds harvested on the Y-K Delta are taken before September 1, the Y-K Delta has the highest fall subsistence harvest of any of the AMBCC regions in Alaska (Wentworth, 2004; Unpublished data on file; ADF&G, 2006, Estimated Harvests of Birds by Region, 2004 and 2005 Migratory Bird Assessment).
Geographic Area of Harvest

The subsistence migratory bird harvest survey is divided into six sub-regions, or strata, to provide a more accurate picture of size, distribution, and composition of harvest (Figure 1). These sub-regions are based on ecologically similar characteristics. Each sub-region differs somewhat in terms of the species and numbers of birds that nest in, fly over and/or otherwise use that particular sub-region. For example, the coastal sub-regions, especially the mid and south coast sub-regions, contain prime goose nesting, rearing, and staging habitat and tend to have the most geese for the longest time. Ducks, on the other hand, (except for eider ducks) are more evenly spread throughout the Delta.

Regional subsistence harvest patterns are closely related to species distributions and ecological characteristics. Roughly half the Delta's population (excluding the larger community of Bethel) lives in coastal villages (Appendix C), yet coastal residents took 60% of the Delta’s geese and 96% of the eider ducks between 1995 and 2000. These same coastal residents took only 27% of the Delta’s other ducks. These data correspond to the fact that nesting geese and eider ducks concentrate in coastal areas while other ducks are more broadly distributed throughout the Delta.

Total goose harvests, and eider duck harvests, are highest in the south and mid coast sub-regions. From 2001 through 2005, 54% of all geese, 61% of YKDGMP species geese, and 93% of eider ducks have been taken in the south and mid coast sub-regions. Only 22% of other ducks have been taken in the south and mid coast (Table B-7).

Another difference observed in the mid coast sub-region relates to the seasonal hunting pattern of YKDGMP species. In the mid coast, more goose hunting occurs during the summer period than in other sub-regions (Tables D-1, D-2, D-5, D-6). These data reflect the concentration of nesting YKDGMP geese in the mid coast sub-region as compared with other areas of the Delta. Geese are available to mid coast residents not only during the spring and fall migration, but throughout the summer as they nest and rear young.

While total goose harvests are generally highest in the south and mid coast sub-regions, duck harvests (excluding eiders) tend to be highest in the Kuskokwim sub-region. Between 2001 and 2005, 44% of all ducks (excluding eiders) were taken in the Kuskokwim sub-region. The Kuskokwim and Bethel sub-regions are particularly important for sea ducks other than eiders. During the 2001-2005 period, the Kuskokwim and Bethel sub-regions took 85% of the Delta’s scoters, 75% of the harlequins, 88% of the greater scaup, and 79% of the goldeneyes (Table B-7).

Table B-7 suggests that the largest harvests of migratory birds occur in the Kuskokwim and mid coast sub-regions. However, these are also the sub-regions with the largest numbers of villages and residents (Appendix C). Dividing the sub-regional harvest estimates by the number of households in each sub-region (US Census 2000) gives average harvests per household by sub-region. These figures show that annually between 2001 and 2005, south coast residents had the highest average harvest at 49 birds per household, followed by mid coast residents with 37 birds per household, Kuskokwim residents with 31 birds per
household, north coast residents with 18 birds per household, Yukon River residents with 15 birds per household, and Bethel residents with 10 birds per household.

Delta-wide, an average of 23 birds was harvested per household between 2001 and 2005. This is lower than between 1995 and 2000 (when an average of 33 birds per household were harvested) mainly because a higher and more realistic number of households is now being used for Bethel. Since some of the surveyed households do not hunt, averages would be higher for those households that did catch birds. However, since the birds are typically shared with non-hunting households, these averages may be good indicators of how many birds each household actually consumes during a year.

Between 2001 and 2005, the mean annual take per household of different species varied among sub-regions. South coast residents reported taking 19 geese per household. Mid coast residents took 18 geese per household. These compare with Delta-wide averages of 8 geese per household. Kuskokwim residents had the highest take of ducks, averaging 18 per household, as compared with 10 ducks per household Delta-wide.

Harvests for each sub-region of the Delta show a large amount of variability from year to year. Generally, this variability has not been any greater or any less in recent years than in earlier years. That said, two sub-regions of the Delta show generally increased harvests since 2000:

The annual harvest in the south coast sub-region increased from 14,000 birds annually for both the 1990-1994 and 1995-2000 periods, to 20,700 birds annually, 2001-2005. Harvest was also high in 2000: 22,500 birds (Wentworth and Seim, 1996, Appendix F; Wentworth, 2004, Table B-7, E-22; Table B-7. This is probably related to the increased participation of south coast villages beginning in 2000, particularly the villages of Kipnuk and Kongiganak (Table 5).

The Bethel sub-region also shows greatly increased harvests since 2000, largely due to an improved method of surveying Bethel. Up through 2000, only the predominantly Native areas of Bethel were surveyed. However, during the 1990’s, the Native population of Bethel became more integrated throughout the community, and the community itself grew, establishing several new subdivisions. Beginning in 2001, attempts were made to sample from the entire community of Bethel. Activity stratification was also employed (see Methodology). These attempts improved in 2004 and 2005, when Refuge Information Technicians (RITs) with strong knowledge and abilities in locating Bethel hunters began conducting the survey. These RITs were also able, when doing the categorizations required by the activity stratification, to identify families from other villages who had recently moved to Bethel. The reported harvests for Bethel in 2004 and 2005, which are much higher than ever reported in the history of the survey (16,800 and 37,500 birds respectively), are probably partially attributable to these efforts.

When analyzing Y-K Delta harvests by geographic area over time, it is also important to look at human population sizes and trends. Previous editions of this report give detailed population information by village (Wentworth and Seim, 1996; Wentworth, 1998; Wentworth, 2004). This information can be compared with Tables C-1 – C-4 in this report to get up to date population trends by village.
The following is a summary of Y-K Delta population trends by sub-region, since 1990:

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>1990</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>South Coast</td>
<td>1,596</td>
<td>1,991</td>
<td>2,163</td>
<td>35.6%</td>
</tr>
<tr>
<td>Mid Coast</td>
<td>3,376</td>
<td>4,234</td>
<td>4,673</td>
<td>38.5%</td>
</tr>
<tr>
<td>North Coast</td>
<td>1,756</td>
<td>2,174</td>
<td>2,175</td>
<td>23.9%</td>
</tr>
<tr>
<td>Kuskokwim</td>
<td>4,449</td>
<td>5,211</td>
<td>5,451</td>
<td>22.6%</td>
</tr>
<tr>
<td>Yukon</td>
<td>2,232</td>
<td>2,550</td>
<td>2,731</td>
<td>22.4%</td>
</tr>
<tr>
<td>Bethel</td>
<td>4,674</td>
<td>5,471</td>
<td>5,953</td>
<td>27.4%</td>
</tr>
<tr>
<td>TOTAL</td>
<td>18,083</td>
<td>21,631</td>
<td>23,146</td>
<td>28.0%</td>
</tr>
</tbody>
</table>

These figures show that the south coast and mid coast sub-regions grew by the largest percentages: 35.6% and 38.5% from 1990 to 2005 compared with an overall regional growth rate of 28% for the same period. Between 2000 and 2005, the north coast was the only sub-region in which the population did not grow.

Eggs

Egg gathering from the nests of waterfowl and other birds has traditionally been practiced throughout the Y-K Delta. It has been of greatest importance in the coastal tundra where nesting densities are highest. Egg gathering has declined significantly over the past few decades but remains a culturally valued activity, especially in the same coastal and tundra villages where it was most extensively practiced in the 1960's (Klein 1966).

Unlike migratory bird hunting, which is done almost entirely by men, egg gathering is done chiefly by women. It usually takes place in late spring and early summer in conjunction with the gathering of edible greens. According to a report by Alice Stickney of the Alaska Department of Fish and Game, Division of Subsistence, (1984):

“...store-bought eggs are not considered a substitute for the local eggs whose flavor is prized. The value of wild bird eggs to the people's diet is enhanced by the fact that they are only available for a limited time span. The opportunity to gather eggs and greens is also eagerly anticipated in the waning months of winter as it offers women the first real freedom to spend extensive periods of time out of the house after a long winter. Thus, the gathering of edible greens and bird eggs provide households with valued food items and a culturally valued activity.”

The estimates of Y-K Delta egg take show a high degree of variability from year to year. Standard errors for egg harvests are much higher than for bird harvests because fewer villages and people harvest eggs. Also, the reporting of egg harvests is highly variable from year to year especially from the villages where the most egging is likely to occur (Table 3).
Keeping this variability in mind, a mean annual harvest of about 23,500 eggs was reported for the 2001-2005 period. This exceeds the mean annual harvest of 15,100 eggs (1995 – 2000; Table B-5), and the mean annual harvest of 10,400 eggs (1990 – 1994; Table 3). The largest increases of egg take occurred in the south coast sub-region. As with bird harvests, this was probably related to the increased participation of south coast villages in the harvest survey beginning in 2000 (Tables 3, 5, B-9; Wentworth, 2004, Table B-9).

Of the 23,500 estimated mean annual egg take, approximately 9,900 (42%) were goose eggs, 3,250 (14%) were duck eggs, and 1,700 (8%) were the eggs of tundra swans and sandhill cranes. Other eggs harvested were those of gulls, terns, loons, murres, shorebirds, and ptarmigan. Annual egg harvest for these species averaged 8,650 or approximately 36% of total egg harvest. Of these species, gull eggs were taken in greatest numbers with a mean annual harvest of 5,370 or 23% of total annual egg harvest (Table 4).

In 2002, 29,700 was the total egg harvest estimate, which was the highest estimate since 1985 when this survey began (Tables 3, 4). Most of this high number was attributable to an increase in the number of gull eggs taken compared with previous or succeeding years. The highest goose egg harvest estimate in the twenty year history of the survey (14,800 eggs) occurred in 2004. The majority of these eggs (67%) were white-front and cackling Canada goose eggs.

Almost all egging takes place in spring and early summer. As discussed under Seasonality of Harvest, surveys before 2002 broke the Spring survey period of April 1-June 30, into Spring (April 9 – May 20) and Early Summer (May 21 – June 24). These pre-2002 surveys consistently showed that most egging took place between May 21 and June 24. In 2001, 99% of the egging occurred during this time period (Table E-11). These data correspond with the breeding cycle of birds on the Delta.

Virtually all egging takes place in the coastal sub-regions of the Delta. The south and mid coast sub-regions are where reported egg collection is highest: from 2001-2005 76% of the reported harvests of migratory bird eggs came from the south and mid coasts (Table B-9). Egg collection is highest in the south and mid coast regions because bird nesting densities are generally highest in these areas. This regional harvest pattern is consistent with data from the 1960's in which two-thirds of the egg harvest was estimated to occur in the mid coast region (Klein 1966).

In general, increased participation and increased reporting of egg take by mid coast villages from 1995 to 2000 and participation by more south coast villages beginning in 2000 have made estimates of egg harvests more accurate in recent years. By contrast, in 1989, 75% of the entire reported egg take on the Delta came from Scammon Bay, and in 1990, almost 50% of reported Delta-wide egg take was from Chefornak. Chefornak declined to participate in the harvest survey from 1991 to 1994 when drawn for the random sample, but began participating and reporting egg harvest again in 1995. Scammon Bay continued to participate in the harvest survey in 1991 and 1992 but stopped reporting takes of YKDGMP species birds and eggs in 1990, after a swan enforcement incident took place in the village in September of that year. Scammon Bay did not report any more egg harvest until 1997, even though the village participated in the survey in all years except 1993 and 1994. Until 2000, Toksook Bay reported little or no egg harvest in any year, even though egging was known to occur. The participation and reporting of egg take by Nightmute, Chefornak, and Newtok since 1994, the participation of the south coast villages of Kipnuk and Kongiganak beginning in
2000, and increased reporting of egg harvests from Chevak, Hooper Bay, Toksook Bay, Eek and Tuntutuliak have all had an upward effect on egg harvest estimates.

Contribution to Subsistence Food Harvest

Waterfowl and other birds are some of the wild foods produced in the Y-K Delta's subsistence economy. Migratory bird hunting activities are part of the seasonal pattern of subsistence food producing activities (see Socioeconomic Setting: Economy). Bird harvest is most important during spring migrations when birds may be among the first sources of fresh meat available after a winter's diet of dried and frozen fish (Wolfe et al. 1990).

Based on data from this survey, it is estimated that waterfowl and other birds contributed about 315,000 pounds of edible meat per year to the Delta's subsistence food harvest between 2001 and 2005. At a conservatively estimated wild bird replacement cost of $4.00 per pound, this amounts to 1.26 million dollars per year when valued in the economic terms of western society (see Wentworth, 1998, Socioeconomic Setting: The Subsistence Sector). Geese, ducks, swans, and cranes contribute 93% of the total usable weight of meat harvested each year (Table B-2).

In terms of actual pounds consumed, waterfowl comprise two to six percent of the subsistence diet in most Delta villages. Our survey results show that between 2001 and 2005, Delta-wide, 64 pounds of birds were consumed per household on average, for both harvesting and non-harvesting households.

Even though waterfowl make up a small percentage of the total subsistence food supply during the year, they can make up a large percentage of the spring food supply when birds arrive on the tundra in abundance during spring migration. Birds are also a highly preferred food resource for the people of the Y-K Delta. Along with seal, birds are an early source of fresh meat, and their springtime availability makes them highly prized (Stickney 1984). Some people as young as 50 remember when, in years when seals were scarce, the spring arrival of migratory birds kept them from starving. Thus birds have not only a physiological importance, but a tremendous psychological importance in the diet of Delta residents especially in the spring (Hunt 1992).

As for food production efficiencies, migratory birds tend to be one of the more expensive foods to produce both in terms of money and labor. The higher "price" to obtain food from migratory birds relative to other species indicates the high cultural value of the birds to the Delta's consumers (Wolfe et al. 1990).

Survey Participation and Limitations

Since 1985, when the survey became random and Delta-wide, 17 to 28 of the 38 villages on the Delta have participated in the survey each year (Table 5). The numbers of households participating have ranged from 450 to over 1000.

The numbers of villages and households participating in the survey generally increased from 1985 through 2002. From 1985 through 1994, the average number of villages participating annually was 19. From 1995 through 2002, the average was 27 (Table 5). From 1985 through 1994, household participation (excluding Bethel) averaged 21% of all households on the Delta during the spring
survey period (Wentworth and Seim, 1996, Table 8). From 1995 through 2002, participation averaged 27% of all households (Appendix C).

In 2004, when the statewide survey methodology was officially adopted, it was no longer feasible to survey as many villages on the Y-K Delta. However, except for Bethel, the goal was to attempt to survey two-thirds of the villages, and 40% of the “High” hunting households, 15% of the “Low” hunting households, and 10% of the non-hunting households (See “Methods: How We Do the Survey”). In 2004, 21 of the 37 villages were sampled (57%), and 29% of the households were sampled. In 2005, 26 of the 37 villages were sampled (70%) and 34% of the households were sampled. In Bethel, every fourth house was stratified. Then a sample was picked from this stratification. In 2004, 45 Bethel households were sampled, and in 2005, 225 Bethel households were sampled.

Participation in the survey varies by sub-region of the Delta. In the north coast sub-region, we have always achieved the desired sample of villages, and over 20% of the households have usually participated. In the Kuskokwim and mid coast sub-regions, we have sometimes failed to get all the villages we need, but have still gotten over 20% of all households to participate in most years. Participation from the mid coast has improved greatly since 1995, at both the village and household levels, increasing the accuracy of our mid coast estimate. In the Yukon sub-region, we did not achieve the desired sample of villages nor households from 1991 through 1996. This improved significantly beginning in 1997, was inadequate again in 2001 and in 2004, and improved again in 2005. In the south coast sub-region, we achieved the desired village sample for the first time in 2000, and again in 2002, 2004, and 2005 (Table 5, Appendix C).

Increases in village and household participation since 1985 have improved the accuracy and precision of the survey for some sub-regions. However, accuracy still varies by season, sub-region, and year, and bias still occurs. These must be considered when interpreting the survey results.

It is important not just to get enough villages to participate from each sub-region, but to get a random sample from each sub-region. Under the new statewide sampling methodology which was incorporated in 2004, it is important to get the participation of the required two-thirds of the villages which are scheduled to participate from that sub-region (see Methods: How We Do the Survey). By rotating the surveyed villages according to the three year rotation schedule, two-thirds of the villages are surveyed each year, and each village is surveyed every other year. If this schedule is followed, this keeps the survey random, because every community has an equal chance of being selected for participation in the survey over a three year period. In practice, even though every village has an equal chance of being selected, some villages in some sub-regions have consistently declined to participate. Therefore, we substitute with villages not on the schedule in a given year but which participate every time they are asked to. This distorts or biases our sample in favor of cooperative villages. Since the species and numbers of birds taken in these villages may differ somewhat, sub-regional estimates may be distorted by an unknown amount.

Survey biases may occur at the household as well as the village level. The same cooperative households may participate year after year in certain villages, whereas other households may consistently decline participation. This especially becomes a problem when all the households in the village must be asked (as alternates) before the required numbers of households are obtained. Sometimes we fail to obtain the required sample size even when all households have been asked. This situation has occurred in a small minority of villages, usually (but not always) in the south.
coast and mid coast sub-regions. The political climate in any particular year helps to influence the degree of household participation within a village. Even though a village may agree to participate year after year, the level of household cooperation within that village can vary considerably from year to year.

A third occasional bias is that some village surveyors, especially those new to the job, have a tendency to survey only the households with active hunters. It is true that under the new activity stratification methodology, active hunters are surveyed at higher rates (See Methods: How We Do the Survey). However, non-hunting households will often decline participation simply because they do not hunt. We instruct the surveyor to include non-hunting households in the household selection process and ask that they explain to non-hunting households that it is okay for them to take part. This problem appears to be diminishing as we get more experienced surveyors, but it has likely influenced past survey results to some extent.

The nature and extent of underreporting on survey forms generally is not known. We suspect that in Scammon Bay in 1990, most of the goose harvest was not reported due to a swan enforcement incident which occurred there in September of that year. Underreporting harvest on survey forms would tend to have the opposite effect on harvest estimates that the inclination to survey households with active hunters would have.

Another way to view survey participation and limitations is through survey response rates. Survey response rates are determined by looking at: 1) whether or not the village agrees to participate in the survey (village response rate); 2) whether or not the household agrees to participate in the survey, as noted by the household permission slip (household response rate). (OMB Form 7-FW-102: See “Methods: How We Do the Survey”).

Each village surveyor fills out a permission slip for each household contact, specifying “yes” if the household agrees to participate, and “no” if the household declines. If a household says “no”, an alternate household is chosen. The proportion of “yes” permission slips to total permission slips filled out equals that village’s response rate. At one extreme, if every household contact says, ”yes” to the survey and the surveyor fills out the “yes” permission slip for every household, that village’s household response rate is 100%. At the other extreme, if every household contacted says “no” to the survey and the surveyor completes a “no” permission slip for every household, that village’s household response rate would be zero.

Once both village and household response rates have been determined, the village response rate is multiplied by the household response rate to get the overall survey response rate.

The calculation and portrayal of village and household response rates is required for OMB approval and re-approval every three years (see Introduction). Overall village-household response rates calculated for the Yukon Delta National Wildlife Refuge show an improvement since 2001: 56% in 2001, 62% in 2002, 64% in 2004, and 77% in 2005 (Table C-5). The lack of permission slips for Bethel in 2004 and 2005, however, means uncertainty of the response rate for the Y-K Delta’s largest community.
LITERATURE CITED


Table 1. Migratory bird subsistence harvest estimates Yukon-Kuskokwim Delta 1985-2005

(Standard errors are in italics and located to the right of estimates.)

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| **OTHER BIRDS**|        |        |        |        |        |
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| Spruce Grouse (non-migratory) |        |        |        |        |        |

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| **TOTAL OTHER BIRDS** | 3,165 | 2,626 | 2,489 | 1,705 | 1,369 |
| TOTAL BIRDS (w/o ptarmigan or grous) | 59926* | 3,288 | 71,712 | 2,459 | 94,586 |
| TOTAL BIRDS (w ith ptarmigan & grous) | 59926** | 3,288 | 80,638 | 2,980 | 109,680 |

**Does not include ptarmigan.
Table 1 (cont.) Migratory bird subsistence harvest estimates Yukon-Kuskokwim Delta 1985-2005

(Standard errors are in italics and located to the right of estimates.)

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<td>TOTAL BIRDS (w/o ptarmigan or grouse)</td>
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<td>82,140 3,518</td>
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<td>118,747 3,103</td>
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<tr>
<td>TOTAL BIRDS (with ptarmigan &amp; grouse)</td>
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<td>101,697 4,826</td>
<td>92,173 3,400</td>
<td>134,842 3,968</td>
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**Does not include ptarmigan
Table 1 (cont.) Migratory bird subsistence harvest estimates Yukon-Kuskokwim Delta 1985-2005

(Standard errors are in italics and located to the right of estimates.)

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<th><strong>DUCKS</strong></th>
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<th><strong>1998</strong></th>
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<td>Pintails</td>
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<tr>
<td>Sandhill Cranes</td>
<td>3,899</td>
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<td>285</td>
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<tr>
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<td>Mallards</td>
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<tr>
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<th><strong>1998</strong></th>
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<td>Guilemott</td>
<td>Golden Plover</td>
<td>Small shorebirds</td>
<td>Godwit</td>
<td>Bristle-thighed Curlew</td>
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<td>TOTAL BIRDS (w/o ptarmigan or grous)</td>
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<td>2,465</td>
<td>109,978</td>
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</table>
## Table 1 (cont.) Migratory bird subsistence harvest estimates Yukon-Kuskokwim Delta 1985-2005

(Standard errors are in italics and located to the right of estimates.)

<table>
<thead>
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<th></th>
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<th>2002</th>
<th>2003</th>
<th>2004*</th>
<th>2005*</th>
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</tbody>
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**Does not include ptarmigan
### Table 2. Migratory bird subsistence harvest estimates 2001-2005 with 4-year averages, Yukon-Kuskokwim Delta

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<th>2001*</th>
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<th>2004*</th>
<th>2005*</th>
<th>4-YR AVG</th>
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<td>17,003</td>
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<td>14,410</td>
<td>11,965</td>
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<td>1,162</td>
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<td>3,895</td>
<td>4,553</td>
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<td>1,945</td>
<td>2,069</td>
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<tr>
<td><strong>TOTAL GEESE</strong></td>
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<td>39,329</td>
<td>37,293</td>
<td>45,012</td>
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<td>Tundra Swan</td>
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<td>4,538</td>
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<td><strong>Canvasback</strong></td>
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<tr>
<td>Green-winged Teal</td>
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<td>1,654</td>
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<td>Harlequin</td>
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<td>20</td>
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*Activity stratification and a new estimation method employed for first time in 2001

**New birds added, 2002
# Table 3. Egg subsistence harvest estimates Yukon-Kuskokwim Delta 1985-2005

(Standard errors are in italics and located to the right of estimates.)

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*Standard errors not available for 2004 or 2005.*
Table 3 (cont.) Egg subsistence harvest estimates Yukon-Kuskokwim Delta 1985-2005

(Standard errors are in italics and located to the right of estimates.)

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*Standard errors not available for 2004 or 2005.*
Table 3 (cont.) Egg subsistence harvest estimates Yukon-Kuskokwim Delta 1985-2005

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*Standard errors not available for 2004 or 2005.*
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**New birds added 2002.

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Target number of villages: 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 5 4 3

Notes:
- **X** indicates the village was surveyed during that year.
- **O** indicates the village was selected but either did not agree to participate in the survey or no surveyor could be found or retained. A blank indicates the village was not selected to participate in the survey.
- No surveys were conducted in 1988 or in 2003.
- The table does not show the number of villages surveyed in 2003 due to the lack of data.

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* In 2002 every village was asked to participate in the survey.
Appendix A. Survey forms and other OMB forms
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<th>Number of Eggs</th>
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<td>Cackling Canada Goose</td>
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**VH Code:** [Blank]
SUBSISTENCE HOUSEHOLD SURVEY
SPRING (APRIL 1 - JUNE 30)

PLEASE WRITE TOTAL NUMBER OF BIRDS CAUGHT AND EGGS GATHERED.

Yellow-billed Loon
birds _______
eggs _______

Red-throated Loon
birds _______
eggs _______

Common Loon
birds _______
eggs _______

Pacific Loon
birds _______
eggs _______

Auklet
birds _______
eggs _______

Murre
birds _______
eggs _______

Cormorant
birds _______
eggs _______

Kittiwake
birds _______
eggs _______

Guillemot
birds _______
eggs _______

Mew Gull
birds _______
eggs _______

Sabine's Gull
birds _______
eggs _______

Glaucous Gull
birds _______
eggs _______

Arctic Tern
birds _______
eggs _______

Puffin
birds _______
eggs _______

Bristle-thighed Curlew
birds _______
eggs _______

Godwit
birds _______
eggs _______

Whimbrel
birds _______
eggs _______

Golden Plover
birds _______
eggs _______

Small Shorebird
birds _______
eggs _______

Unidentified Duck
birds _______
eggs _______

Ptarmigan (non-migratory)
birds _______
eggs _______

Spruce Grouse (non-migratory)
birds _______
eggs _______

Other Bird
birds _______
eggs _______

Surveyor Notes ____________
Date of Pick-up: ____________
VH Code: ____________

Comments: ____________
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<th>Bird Species</th>
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VH Code:
SUBSISTENCE HOUSEHOLD SURVEY
SUMMER (JULY 1 - AUG. 31)

PLEASE WRITE TOTAL NUMBER OF BIRDS CAUGHT AND EGGS GATHERED.

Yellow-billed Loon
birds: [number]
eggs: [number]

Red-throated Loon
birds: [number]
eggs: [number]

Common Loon
birds: [number]
eggs: [number]

Pacific Loon
birds: [number]
eggs: [number]

Auklet
birds: [number]
eggs: [number]

Murre
birds: [number]
eggs: [number]

Cormorant
birds: [number]
eggs: [number]

Kittiwake
birds: [number]
eggs: [number]

Guillemot
birds: [number]
eggs: [number]

Mew Gull
birds: [number]
eggs: [number]

Sabine's Gull
birds: [number]
eggs: [number]

Glaucous Gull
birds: [number]
eggs: [number]

Arctic Tern
birds: [number]
eggs: [number]

Puffin
birds: [number]
eggs: [number]

Bristle-thighed Curlew
birds: [number]
eggs: [number]

Godwit
birds: [number]
eggs: [number]

Whimbrel
birds: [number]
eggs: [number]

Golden Plover
birds: [number]
eggs: [number]

Small Shorebird
birds: [number]
eggs: [number]

Unidentified Duck
birds: [number]
eggs: [number]

Ptarmigan (non-migratory)
birds: [number]
eggs: [number]

Spruce Grouse (non-migratory)
birds: [number]
eggs: [number]

Other Bird
birds: [number]
eggs: [number]

Surveyor Notes: ________
Date of Pick-up: ________

Comments: ________

VH Code: ________

FORM 7-FV-103
OMB NO. 1018-0124
APPROVAL EXPIRES 01/31/10
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<th>Bird Type</th>
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</tr>
<tr>
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<td></td>
<td></td>
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<tr>
<td>Lesser Canada Goose</td>
<td></td>
<td></td>
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<tr>
<td>Cackling Canada Goose</td>
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<tr>
<td>Lesser Snow Goose</td>
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<tr>
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<tr>
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<td>Pintail</td>
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<tr>
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<tr>
<td>Canvasback</td>
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<td>Harlequin</td>
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<td>Long-tailed duck</td>
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<tr>
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<td>Surf Scoter</td>
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<tr>
<td>Steller’s Eider</td>
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VH Code: ____________
**SUBSISTENCE HOUSEHOLD SURVEY**
FALL (SEPT. 1 - OCT. 31)

**PLEASE WRITE TOTAL NUMBER OF BIRDS CAUGHT AND EGGS GATHERED.**

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<td>Glaucous Gull</td>
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<tr>
<td>Unidentified Duck</td>
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<td>Spruce Grouse (non-migratory)</td>
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Date of Pick-up: ____________________________
VH Code: ____________________________
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<tr>
<td>Lesser Canada Goose</td>
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<tr>
<td>Cackling Canada Goose</td>
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<tr>
<td>Lesser Snow Goose</td>
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<tr>
<td>Emperor Goose</td>
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<tr>
<td>Green-winged Teal</td>
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<tr>
<td>Scaup</td>
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<td>Spectacled Eider</td>
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**VH Code:**
<table>
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<tr>
<th>Village</th>
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<th>Surveyor</th>
<th>Year</th>
<th>Total Houses</th>
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<td>...........</td>
<td>...</td>
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</tr>
</tbody>
</table>

Harvest Activity Level is based on surveyor's knowledge of a typical or approximate number of birds of all species that are likely to be taken in this household during the entire year. The surveyor may use his or her own knowledge, or ask a household member, or ask someone else. NONE = probably no birds will be taken by this household, LOW = 1 to 10 birds are likely to be taken, HIGH = more than 10 birds are likely to be taken during the entire year. Make sure that the number of houses you write down equals the total houses in the village.
Every household number should be entered only once in 1 of the 3 activity level columns based on any information available. This completed form is to be used with the random selection overlay sheet #3. Indicate the selected houses by writing a * after the household number. Write NO after the * if the household then refuses permission. Write ALT after the * if the household is selected as an alternate. Make sure this information is the same as what is on the permission slips. This form MUST be turned in to the harvest survey coordinator for your area.
<table>
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<th>HIGH = &gt;10 birds</th>
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<td>21</td>
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</table>

The household numbers that are visible in the clear areas are those selected to be sampled. Write a * if the household is selected. Go to each household and ask for permission. If permission is granted, leave a harvest survey form to be collected again at the end of the survey period. If the household decides not to participate, write NO next to the * and select an alternate household from the SAME ACTIVITY LEVEL COLUMN. The alternate selected should be in a light gray box with the lowest available box number. Write * and ALT next to the selected alternate household. This new household number should be added to household survey work check list #4. If less than 5 households are selected in any column, continue selecting light gray and then dark gray boxes in the order of increasing box numbers until a sample of 5 is selected. If fewer than a total of 8 households are listed, select at most one half of those listed. For example, if only 7 houses are listed in the column, select only 3 of these to sample, those with the lowest 3 box numbers.
HOUSEHOLD PERMISSION SLIP

We have accepted the Subsistence Migratory Bird Harvest Survey form. We understand that the harvest surveyor for our village will be back to pick up a page of the survey the first week of July, the first week of September, and the first week of November.

DATE:___________  HOUSEHOLD #_____  YES____NO____

ALTERNATE____

_____________________________________________________________________

FORM 7-FW; OMB NO. 1018-124; APPROVAL EXPIRES 01/31/10
Appendix B. Comprehensive Data
Table B-1. Average usable weight (pounds) of birds & eggs reported in subsistence harvest surveys, Yukon-Kuskokwim Delta

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<th>Category</th>
<th>Species</th>
<th>Average Round Weight</th>
<th>Usable Weight (75% round weight)</th>
<th>Egg Weight**</th>
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<td>Cackling Canada Geese</td>
<td>3.10</td>
<td>2.33</td>
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<td>6.18</td>
<td>4.63</td>
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* Bellrose 1976 and U.S. Fish and Wildlife Service file; Cornell University Birds of North America website. Average of females, matures and immatures, where given.

Table B-2 Migratory bird subsistence harvest estimates (pounds) Yukon-Kuskokwim Delta, 2001-2005

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<th>2005*</th>
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*Activity stratification and a new estimation method employed for first time in 2001
**New birds added, 2001

TOTAL (w/o Ptarm/Grouse) | 288,400 | 278,029 | 324,576 | 293,905 | 298,896
TOTAL (w/ Ptarm/Grouse) | 304,994 | 297,201 | 333,055 | 312,262 | 314,611

62
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Table B-6 Average bird harvest estimates by survey period, Yukon-Kuskokwim Delta 2001-2005

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*new species added, 2002
Table B-7 Average bird harvest estimates by sub-region, Yukon-Kuskokwim Delta, 2001-2005

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TOTAL (w/o Ptarm/Grouse) | 18,633      | 25,412    | 7,646       | 26,152    | 7,460 | 14,146 | 99,449|
TOTAL (with Ptarm/Grouse) | 20,710      | 29,850    | 8,072       | 30,665    | 7,730 | 18,138 | 115,165|

*new species added, 2002
Table B-8 Average egg harvest estimates by survey period, Yukon-Kuskokwim Delta 2001-2005

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*new species added, 2002
Table B-9 Average egg harvest estimates by sub-region, Yukon-Kuskokwim Delta, 2001-2005

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*new species added, 2002
Appendix C. Population and village household survey participation, Yukon-Kuskokwim Delta, 2001-2005
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### Table C-1 (cont.) Population, total households by hunting category, and households sampled by survey period Yukon-Kuskokwim Delta

#### 2001

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<td>Pilot Station</td>
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#### Notes
- **TOTAL w/o Bethel**: 16,160
- **TOTAL with Bethel**: 21,631
- **TOTAL w/o survey no survey**: 1,925
- **TOTAL w/o survey no survey w/o survey**: 313
- **TOTAL w/o survey no survey w/o survey w/o survey**: 451
- **TOTAL w/o survey no survey w/o survey w/o survey w/o survey**: 720

- **10% survey and none survey Household**: 857
- **10% survey and no survey Household**: 588
- **10% survey and no survey Household w/o survey**: 88
- **10% survey and no survey Household w/o survey w/o survey**: 77

- **U.S. Census 2000** as cited in Alaska Department of Labor, Research and Analysis Website: www.labor.state.ak.us.research
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Table C-2: Population, total households by hunting category, and households sampled by survey period, Yukon-Kuskokwim Delta.
Table C-2 (cont.) Population, total households by hunting category, and households sampled by survey period Yukon-Kuskokwim Delta, 2002

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For more information, please visit the U.S. Census 2000 website: www.labor.state.ak.us/research.
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### Table C-3 (cont.) Population, total households, and households sampled by hunting category, Yukon-Kuskokwim Delta, 2004

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*Alaska Department of Labor, July 1, 2004 estimate*
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</tbody>
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Notes:
- Population est* is the estimated population for the geographic subregion.
- Census 2000 Recorded refers to the number of households recorded in the 2000 Census.
- Sample Total refers to the total number of households sampled during the survey period.

Table C-4: Population, total households by hunting category, and households sampled by survey period, Yukon-Kuskokwim Delta.
Table C-4 continued. Population, total households by hunting category, and households sampled by survey period, Yukon-Kuskokwim Delta, 2005.

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*Alaska Department of Labor, July 1, 2004 estimate

Total

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<th>Total Household Count (1-10 birds)</th>
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Table C-4 (cont.) Population, total households by hunting category, and households sampled by survey period, Yukon-Kuskokwim Delta, 2005.
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### Table D-8 (cont.) Detailed harvest estimates, Sandhill Crane, 1985-2005

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### Table D-36 (cont.) Detailed harvest estimates, Common Murre, 1985-2005

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**Note:** The table shows harvest estimates for the Common Murre from 1985 to 2005 in different regions, categorized by season and location. The estimates are listed in thousands.
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159
Table D-40 (cont.) Detailed harvest estimates, Large shorebirds, 1985-2005

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Table E-5. Bird harvest estimates by survey period, Yukon-Kuskokwim Delta, 1996.

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**TOTAL (w/o Ptarmigan)**:
- 56,972 12,646 3,420 12,787 26,152 111,977

**TOTAL (with Ptarmigan)**:
- 70,170 13,956 3,420 12,937 26,288 126,771
Table E-6. Bird harvest estimates by region, Yukon-Kuskokwim Delta, 1996.

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Table E-7. Egg harvest estimates by survey period, Yukon-Kuskokwim Delta, 1996.

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*new species added, 2002

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*new species added, 2002

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| Ptarmigan Eggs* | 690 | 252 | 55 | 103 | 0 | 11 | 1,111 |

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| TOTAL (w/o Ptarm/Grouse) | 4,224 | 8,190 | 3,127 | 553 | 253 | 0 | 16,347 |
| TOTAL (with Ptarm/Grouse) | 4,914 | 8,442 | 3,182 | 656 | 253 | 11 | 17,458 |

*new species added, 2002

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*new species added, 2002

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*new species added, 2002
Table E-16. Egg harvest estimates by sub-region, Yukon-Kuskokwim Delta, 2002.

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<th>North Coast</th>
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<th>Yukon</th>
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*new species added, 2002

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| Ptarmigan              | 7,391  | 57     | 915  | 8,363  |
| Spruce Grouse*         | 108    | 8      | 0    | 116    |

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| TOTAL (w/o Ptarm/Grouse)| 65,864 | 11,645 | 25,985| 103,494|
| TOTAL (with Ptarm/Grouse)| 73,363 | 11,710 | 26,900| 111,973|

*new species added, 2002

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*new species added, 2002

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*new species added, 2002

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*new species added, 2002

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*new species added, 2002
## Table E-22. Bird harvest estimates by sub-region, Yukon-Kuskokwim Delta, 2005.

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<td>293</td>
</tr>
<tr>
<td>Large shorebirds</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other Unknown Birds*</td>
<td>0</td>
<td>0</td>
<td>7</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total Other Bird Eggs</td>
<td>3,519</td>
<td>988</td>
<td>808</td>
<td>530</td>
<td>300</td>
<td>362</td>
</tr>
<tr>
<td>Total (w/o Ptarm/Grouse)</td>
<td>11,742</td>
<td>2,268</td>
<td>3,835</td>
<td>919</td>
<td>638</td>
<td>482</td>
</tr>
<tr>
<td>Total (with Ptarm/Grouse)</td>
<td>11,833</td>
<td>2,518</td>
<td>3,853</td>
<td>962</td>
<td>638</td>
<td>482</td>
</tr>
</tbody>
</table>

*new species added, 2002
Appendix F  Yup'ik names and pronunciation of Yukon-Kuskokwim Delta birds
Table F-1 Names of Yukon Kuskokwim Delta Birds

<table>
<thead>
<tr>
<th>English Name</th>
<th>Yup'ik Names, Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semi-palmated Plover</td>
<td>Uyarr'uyaq (call)</td>
</tr>
<tr>
<td>Black-bellied Plover</td>
<td>Tuusiik (call) (common)</td>
</tr>
<tr>
<td>Lesser Golden Plover</td>
<td>Tuusiik (call)</td>
</tr>
<tr>
<td>Bar-tailed Godwit</td>
<td>Kayaruaq (pretend kayak) <em>(P)</em></td>
</tr>
<tr>
<td>Bristle-thighed Curlew</td>
<td>Ciivikaaq, Pipipiaq (call) (common)</td>
</tr>
<tr>
<td>Whimbrel</td>
<td>Pipipiaq (call)</td>
</tr>
<tr>
<td>Lesser Yellowlegs</td>
<td>Tuntussiik (call)</td>
</tr>
<tr>
<td>Spotted Sandpiper</td>
<td>Elagayuli (behavior,) (digger)</td>
</tr>
<tr>
<td>Northern Phalarope</td>
<td>cepirluraq (call) <em>(P)</em>, imarcarraq</td>
</tr>
<tr>
<td>Red Phalarope</td>
<td>augtuaraq (Do not know meaning)</td>
</tr>
<tr>
<td>Common Snipe</td>
<td>Quguquaq (sound) (common)</td>
</tr>
<tr>
<td>Ruddy Turnstone</td>
<td>Ciilmak (Do not know meaning)</td>
</tr>
<tr>
<td>Black Turnstone</td>
<td>Ciilmak</td>
</tr>
<tr>
<td>Dunlin</td>
<td>Curemraq (tobacco pouch) <em>(P)</em>, cenairpaku</td>
</tr>
<tr>
<td>Western Sandpiper</td>
<td>ellunyaraq <em>(P)</em>, iisuraaraq</td>
</tr>
<tr>
<td>Pectoral Sandpiper</td>
<td>Temtemtaaq (call)</td>
</tr>
<tr>
<td>Arctic Tern</td>
<td>Tegaquarasarq <em>(P)</em>, teqiyauq (call)</td>
</tr>
<tr>
<td>Mew Gull</td>
<td>Naruyaq, naruaq *(P) (common)</td>
</tr>
<tr>
<td>Glaucous Gull</td>
<td>Kukisvak <em>(P)</em>, narusvak (large gull) *(common)</td>
</tr>
<tr>
<td>Long-tailed Jaeger</td>
<td>Yunaq, yunarpaq *(P) (large jaeger) *(common)</td>
</tr>
<tr>
<td>Parasitic Jaeger</td>
<td>Yunaq, yunarpaq (large jaeger) *(common)</td>
</tr>
<tr>
<td>Pomarine Jaeger</td>
<td>Uquiraq (?)</td>
</tr>
</tbody>
</table>
Table F-1 (cont.) Names of Yukon-Kuskokwim Delta Birds

<table>
<thead>
<tr>
<th>English Name</th>
<th>Yup'ik Names, Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glaucous-winged Gull</td>
<td>Kukisvak, narusvak (large gull) (common)</td>
</tr>
<tr>
<td>Black-legged Kittiwake</td>
<td>Arliaq, naruyacuaq (little gull)</td>
</tr>
<tr>
<td>Sabine's Gull</td>
<td>Nacallngaraq (plumage) (hat) (common)</td>
</tr>
</tbody>
</table>

**Yup'ik Names of Passerines**

<table>
<thead>
<tr>
<th>English Name</th>
<th>Yup'ik Names, Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belted Kingfisher</td>
<td>No name found in dictionary</td>
</tr>
<tr>
<td>Tree Swallow</td>
<td>Kauturyaq (to reach in) (common)</td>
</tr>
<tr>
<td></td>
<td>curliqcurlaraaq(P)(song)</td>
</tr>
<tr>
<td>Cliff Swallow</td>
<td>Ekvigtaaraq (bank dweller)</td>
</tr>
<tr>
<td>Common Raven</td>
<td>Qer'qaalleraq (song) (common)</td>
</tr>
<tr>
<td></td>
<td>tulukaruk (The black one) (common)</td>
</tr>
<tr>
<td>Black-capped Chickadee</td>
<td>Cokpiipiiraq, cokpiipiiq (song) (common)</td>
</tr>
<tr>
<td>Gray-cheeked Thrush</td>
<td>Viuq (song)</td>
</tr>
<tr>
<td>Varied Thrush</td>
<td>Ciitaarayuli (song)</td>
</tr>
<tr>
<td>American Robin</td>
<td>Curcurliq (song) (common)</td>
</tr>
<tr>
<td>Northern Shrike</td>
<td>Kanguruaq (pretend snow goose)</td>
</tr>
<tr>
<td>Yellow Warbler</td>
<td>Kopanuaq</td>
</tr>
<tr>
<td>Northern Waterthrush</td>
<td>Iqiqcaraq (Behavior, bobbing tail)</td>
</tr>
<tr>
<td>Savannah Sparrow</td>
<td>Tekciuk, cicingaq(P) (song)</td>
</tr>
<tr>
<td>American Tree Sparrow</td>
<td>Tekciuk, cicingaq (song)</td>
</tr>
<tr>
<td>White-crowned Sparrow</td>
<td>Uipinipaaq (song)</td>
</tr>
<tr>
<td>Fox Sparrow</td>
<td>Elagayuli (Behavior) (Digger)</td>
</tr>
<tr>
<td>Lapland Longspur</td>
<td>Tekciulugraq, (song)</td>
</tr>
<tr>
<td></td>
<td>silusilusiraarq (P) (song)</td>
</tr>
<tr>
<td>McKay's Snow Bunting</td>
<td>Cilumcuksugaq</td>
</tr>
<tr>
<td>Rusty Blackbird</td>
<td>Cukaarpaq (P) (song) (common)</td>
</tr>
<tr>
<td>English Name</td>
<td>Yup'ik Names, Meaning</td>
</tr>
<tr>
<td>------------------------------</td>
<td>------------------------------------------------------------</td>
</tr>
<tr>
<td>Mallard</td>
<td>Uqas@gerpak (large duck)</td>
</tr>
<tr>
<td>Green-winged Teal</td>
<td>Remeeksungaraq (P), tengenqaaraq (little meat)</td>
</tr>
<tr>
<td>American Widgeon</td>
<td>Auuguraq (call), qatkeggiq (plumage)</td>
</tr>
<tr>
<td>Pintail</td>
<td>Uqonuagq, Uutkaq, uqulucaq (common)</td>
</tr>
<tr>
<td>Northern Shoveler</td>
<td>Gugg'erpak, qasuuciaq' (appearance) (large bill), [spoon(P)]</td>
</tr>
<tr>
<td>Canvasback</td>
<td>No name found in dictionary</td>
</tr>
<tr>
<td>Grey Scoter</td>
<td>Kop'alek, Athnordnaq (appearance) (with patch), mukluk color patch</td>
</tr>
<tr>
<td>Common Eider</td>
<td>metraq</td>
</tr>
<tr>
<td>King Eider</td>
<td>Qengalolok (one with nose) (appearance)</td>
</tr>
<tr>
<td>Spectacled Eider</td>
<td>Gauqeq</td>
</tr>
<tr>
<td>Steller's Eider</td>
<td>Caqiaraq, aanarniaraq (small of droppings)</td>
</tr>
<tr>
<td>Black Scoter</td>
<td>Kukumyaraq (whistler) (call) (common)</td>
</tr>
<tr>
<td>White-winged Scoter</td>
<td>akacakakayak</td>
</tr>
<tr>
<td>Surf Scoter</td>
<td>akacakakayak</td>
</tr>
<tr>
<td>Harlequin Duck</td>
<td>Cetuskaraq</td>
</tr>
<tr>
<td>Oldsquaw</td>
<td>An'aaliq (P), aarrnaangiyak (call)</td>
</tr>
<tr>
<td>Common Goldeneye</td>
<td>Anarnilniguq, gamiqurpak (large (appearance) head)</td>
</tr>
</tbody>
</table>
Table F-1 (cont.) Names of Yukon-Kuskokwim Delta Birds

<table>
<thead>
<tr>
<th>English Name</th>
<th>Yup'ik Names</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bufflehead</td>
<td>Tyuqtaqtaq (small not float) (appearance)</td>
</tr>
<tr>
<td>Common Merganser</td>
<td>Payiq</td>
</tr>
<tr>
<td>Red-breasted Merganser</td>
<td>Payiq</td>
</tr>
<tr>
<td>Hooded Merganser</td>
<td>Payiq</td>
</tr>
</tbody>
</table>

**Yup'ik Names of Geese**

<table>
<thead>
<tr>
<th>English Name</th>
<th>Yup'ik Names</th>
</tr>
</thead>
<tbody>
<tr>
<td>White-fronted Goose</td>
<td>Laglaq, neglaq (call) lagilugpiag (largest goose, appearance)</td>
</tr>
<tr>
<td>Lesser Snow Goose</td>
<td>Kanguq (common Yup'ik name)</td>
</tr>
<tr>
<td>Emperor Goose</td>
<td>Nacullek (hat, cap) (appearance)</td>
</tr>
<tr>
<td>Cackling Canada Goose</td>
<td>Tuatalquilik (P), Tuatalwayak (common)</td>
</tr>
<tr>
<td>Lesser Canada Goose</td>
<td>Tsunglimau, (uw that flies) tuatalwayak (common)</td>
</tr>
<tr>
<td>Taverner's Goose</td>
<td>Lagiq (call) (common) Tengmiag (Yukon, common)</td>
</tr>
<tr>
<td>Black Brant</td>
<td>Neglernaq (call) (common) Leglernaq (call, P)</td>
</tr>
</tbody>
</table>

**Yup'ik Names of Swans**

<table>
<thead>
<tr>
<th>English Name</th>
<th>Yup'ik Names</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tundra Swan</td>
<td>Qugryuk (call) (common)</td>
</tr>
</tbody>
</table>

**Yup'ik Names of Cranes**

<table>
<thead>
<tr>
<th>English Name</th>
<th>Yup'ik Names</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lesser Sandhill Crane</td>
<td>Qut'raaq, quilliag (call) (common)</td>
</tr>
</tbody>
</table>

**Yup'ik Names of Loons/Grebes**

<table>
<thead>
<tr>
<th>English Name</th>
<th>Yup'ik Names</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Loon</td>
<td>Tullilek (common)</td>
</tr>
<tr>
<td>Yellow-billed Loon</td>
<td>Tullilek</td>
</tr>
<tr>
<td>Pacific Loon</td>
<td>Tullilek</td>
</tr>
<tr>
<td>English Name</td>
<td>Yup'ik Names, Meaning</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>Arctic Loon</td>
<td>Tunutellek (mark on back of head)</td>
</tr>
<tr>
<td>Red-throated Loon</td>
<td>Qaqatak, qagacuk (call)</td>
</tr>
<tr>
<td>Red-necked Grebe</td>
<td>Antititaaq (P), aaryuli (call)</td>
</tr>
<tr>
<td>Horned Grebe</td>
<td>Qaleqcuuk (call)</td>
</tr>
<tr>
<td>Bared Grebe</td>
<td>Qaleqcuuk (call)</td>
</tr>
</tbody>
</table>

**Yup'ik Names of Cormorant**

<table>
<thead>
<tr>
<th>English Name</th>
<th>Yup'ik Names</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pelagic Cormorant</td>
<td>Agaquuq (P) (It is praying), uyalek (long neck)</td>
</tr>
<tr>
<td>Double-crested cormorant</td>
<td>Uyalegpak (large cormorant)</td>
</tr>
</tbody>
</table>

**Yup'ik Names of Hawks and Owls**

<table>
<thead>
<tr>
<th>English Name</th>
<th>Yup'ik Names, Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boreal Owl</td>
<td>Takvialinguarq (sharp eyed)</td>
</tr>
<tr>
<td>Great Gray Owl</td>
<td>Artuliugiq (one with parka) (appearance)</td>
</tr>
<tr>
<td>Great Horned Owl</td>
<td>Ihassuli (call) (common)</td>
</tr>
<tr>
<td>Short-eared Owl</td>
<td>Mengquviq (common)</td>
</tr>
<tr>
<td>Snowy Owl</td>
<td>Aningit (common)</td>
</tr>
<tr>
<td>Goshawk</td>
<td>Ceakviaggiq (P), aqakviaggiq (COMMON)</td>
</tr>
<tr>
<td>Sharp-shinned Hawk</td>
<td>Tunuqakuq (little bird)</td>
</tr>
<tr>
<td>Marsh Hawk</td>
<td>Ceakviag, aqakviag</td>
</tr>
</tbody>
</table>

**Yup'ik Names of Ptarmigan**

<table>
<thead>
<tr>
<th>English Name</th>
<th>Yup'ik Names, Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Willow Ptarmigan</td>
<td>Kangqiq (perching on top of trees, willows) (behavior)</td>
</tr>
<tr>
<td>Rock Ptarmigan</td>
<td>Agsiqi (sneezing bird) (call)</td>
</tr>
<tr>
<td>White-tailed Ptarmigan</td>
<td>Ecliayuli (expert burber) (call)</td>
</tr>
<tr>
<td>Spruce Grouse</td>
<td>Tagikataq</td>
</tr>
<tr>
<td>Ruffed Grouse</td>
<td>Egtuk</td>
</tr>
<tr>
<td></td>
<td>Egoiriuciayuli, ecliayuli (call)</td>
</tr>
</tbody>
</table>
Table F-1 (cont.) Names of Yukon-Kuskokwim Delta Birds

<table>
<thead>
<tr>
<th>English Name</th>
<th>Yup'ik Name, Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Murre</td>
<td>Alpa</td>
</tr>
<tr>
<td>Horned Puffin</td>
<td>Qengacuaraq (little nose) (appearance)</td>
</tr>
<tr>
<td>Tufted Puffin</td>
<td>Qengacuaraq (?)</td>
</tr>
<tr>
<td>Pigeon Guillemot</td>
<td>Qayagpayuli (loud yeller?) (call)</td>
</tr>
<tr>
<td>Ancient Murrelet</td>
<td>Cigurag</td>
</tr>
<tr>
<td>Parakeet Anker</td>
<td>No name found in dictionary</td>
</tr>
<tr>
<td>Crested Anker</td>
<td>No name found in dictionary</td>
</tr>
</tbody>
</table>

Yup'ik Names of eagles

<table>
<thead>
<tr>
<th>English Name</th>
<th>Yup'ik Name, Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bald Eagle</td>
<td>Tengmirpak (large bird) (appearance)</td>
</tr>
<tr>
<td>Golden Eagle</td>
<td>Tengmirpak (same as bald eagle)</td>
</tr>
<tr>
<td>Osprey</td>
<td>Angilutoriull (diving bird) (behavior)</td>
</tr>
</tbody>
</table>

NOTE:
Most of the names of the birds listed above were taken from the Yup'ik Eskimo Dictionary compiled by Steven A. Jacobsen, printed in 1984 by University of Alaska, Alaska Native Language Center, Fairbanks, Alaska.

Depending on Yup'ik dialect location (Yukon, Kuskokwim, Hooper Bay, Nelson Island, etc.), there are many names for different species of birds in the Y-K Delta. Some bird names I have written down because their names were taught to me by my parents while growing up in Fastolik, Alaska. Therefore, these are signified by a (?) for Fastolik.

Many of the bird names may be misspelled due to my lack of training in the written Yup'ik language. But they are written as close as I can, modifying some of the names written in the Yup'ik Eskimo Dictionary.

Many of the bird names are names through their sounds, calls, behavior, and appearance, such as whimbrel (call) [pipipiag] and common snipe (sound) [Ququguag]. These are identified beside the Yup'ik name (sound, call, behavior) and the Yup'ik meaning of the name. Many bird names are (common) throughout the Yup'ik regions such as the name of swans [Qugyuk] and loon or sandhill...
Table F-1 (cont.) Names of Yukon-Kuskokwim Delta Birds

The names of some birds such as kingfisher and seabirds are not found in the Yup'ik Dictionary. This may be because only those Yup'ik people in isolated areas such as Numivak Island, Nelson Island, Hooper Bay, Chevak, Scammon Bay, Goodnews Bay, and Togiak (for seabirds) have those species of birds. Kwethluk, Akiak, Tulukskak, and Aniak may only encounter these birds (kingfishers) in their areas. The Yup'ik people and their elders in these villages would have to be consulted to write down the birds names and their meanings.

Yup'ik pronunciations are much different than that of the English language. Such names as Elagayuli (fox sparrow), the 'e' is silent. The letter 'g' in some cases may sound like the letter 'r' mixed with the 'g' sound, such as the name Agasuug (pelagic cormorant). The letter 's' also in some cases may sound or be pronounced with the sound of 'z' such as the name tuuulik (golden or black-bellied plover). The 'c' in most cases is pronounced as 'ch'.

There is no name found for the diving duck "Canvasback" as this bird mostly likely was not common or seen in the Y-K Delta until as recent as 15 years ago. But, the more interior villages of the Y-K Delta may have a name for it because there may have been incidental observations of this duck. But, it may be mistaken for greater scaup (Kep'alek, Athernnaq) at times.

Compiled by Charles F. Hunt
Native Contact Representative
Yukon Delta National Wildlife Refuge
July 13, 1998
Table F-2 Pronunciation of Yup'ik names of birds

<table>
<thead>
<tr>
<th>Yup'ik Name</th>
<th>Pronunciation</th>
<th>English Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Uyarr'uyaq</td>
<td>Go-yar-ooyak</td>
<td>Semi-palmate Plover</td>
</tr>
<tr>
<td>Tussik</td>
<td>Doo-zoek</td>
<td>Golden/Black belted Plover</td>
</tr>
<tr>
<td>Kayaruaq</td>
<td>Ga-yahr-co-wak</td>
<td>Bar-tailed Godwit</td>
</tr>
<tr>
<td>Cilvikaq</td>
<td>Gee-vick-ah</td>
<td>Bristle-thighed Curlew</td>
</tr>
<tr>
<td>Pipipaq</td>
<td>Re-he-heyak</td>
<td>Whimbrel</td>
</tr>
<tr>
<td>Tuntussik</td>
<td>Ihn-dus-seek</td>
<td>Lesser Yellowlegs</td>
</tr>
<tr>
<td>Klagaynil' *</td>
<td>Lahgr-h-yum-lea</td>
<td>Spotted Sandpiper</td>
</tr>
<tr>
<td>Uapiluraq</td>
<td>Chep-ar-luth-rak</td>
<td>Northern Phalarope</td>
</tr>
<tr>
<td>Imarcarraq</td>
<td>Ehm-chaar-raq</td>
<td>Northern Phalarope</td>
</tr>
<tr>
<td>Uququuaq</td>
<td>Goo-goo-gowak</td>
<td>Common Snipe</td>
</tr>
<tr>
<td>Cilnakaq</td>
<td>Chill-mak</td>
<td>Ruddy/Black Turnstone</td>
</tr>
<tr>
<td>Cureraq</td>
<td>Chew-zem-rak</td>
<td>Dunlin</td>
</tr>
<tr>
<td>Cemairak</td>
<td>Chiar-iier-pak</td>
<td>Dunlin</td>
</tr>
<tr>
<td>Ehimyarak</td>
<td>Ethim-yar-rak</td>
<td>Western Sandpiper</td>
</tr>
<tr>
<td>Tenumakaaq</td>
<td>Dem-dem-daak</td>
<td>Pectoral Sandpiper</td>
</tr>
<tr>
<td>Tegalquazarq</td>
<td>Dek-geth-qua-za-rak</td>
<td>Arctic Tern</td>
</tr>
<tr>
<td>Tegipaq**</td>
<td>Dek kee-yowk</td>
<td>Arctic Tern</td>
</tr>
<tr>
<td>Naruyak</td>
<td>Nah roo yak</td>
<td>Mew Gull</td>
</tr>
<tr>
<td>Narusoq</td>
<td>Nah roo sak</td>
<td>Mew Gull</td>
</tr>
<tr>
<td>Kukiovak</td>
<td>Koo-kis-vak</td>
<td>Glaucous Gull</td>
</tr>
<tr>
<td>Naruvok</td>
<td>Na-rooz-vak</td>
<td>Glaucous Gull</td>
</tr>
<tr>
<td>Yuaq</td>
<td>You-nak</td>
<td>Long-tailed Jaeger</td>
</tr>
<tr>
<td>Yunarpak</td>
<td>You-nark-bak</td>
<td>Long-tailed Jaeger</td>
</tr>
<tr>
<td>Naruyacuq</td>
<td>Na-roo-yet-chu-ak</td>
<td>Black-legged Kittiwake</td>
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<td>*Silent &quot;E&quot;</td>
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<td><strong>Children's name for bird</strong></td>
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Table F-2 (cont.) Pronunciation of Yup'ik names of birds

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<tr>
<th>Yup’ik Name</th>
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<td>Kauturayaq</td>
<td>Kau-dor-yak</td>
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<tr>
<td>Curliqcurlaraaq</td>
<td>Chur-lick-chur-lair-rak</td>
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<tr>
<td>Oor’qaalleraq</td>
<td>Ker-ka-lar-rak</td>
<td>Common Raven</td>
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<td>Tulukaruk</td>
<td>Dul-lou-ka-rook</td>
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<td>Ekvigtaaraq</td>
<td>Ek-vick-daa-rak</td>
<td>Bank Swallow</td>
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<td>Cekpipliriq</td>
<td>Chik-bee-bee-rak</td>
<td>Blk-capped Chickadee</td>
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<td>Cekpipliq</td>
<td>Chik-bee-bee</td>
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<td>Vluq</td>
<td>View-k</td>
<td>Gray-cheeked Thrush</td>
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<td>Cillaarayull</td>
<td>Cheet-dar-ah-you-le</td>
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<td>Curvuiliu</td>
<td>Chuk-chur-lih</td>
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<td>Gung-oo-ro-wak</td>
<td>Northern Shrike</td>
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<td>Ko-ban-o-wak</td>
<td>Northern Shrike</td>
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<td>Iqilucaaq</td>
<td>Be-gig-cha-rak</td>
<td>N. Waterthrush</td>
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<td>Tekciuk</td>
<td>Tik-che-uk</td>
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<td>Cilingaq</td>
<td>Chich-ching-ak</td>
<td>Tree/Savannah Sparrow</td>
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<td>Uipinipaaq</td>
<td>Wee-bin-nea-bak</td>
<td>White-crowned Sparrow</td>
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<td>Elagayuli*</td>
<td>Laar-ah-you-lee</td>
<td>Fox Sparrow</td>
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<td>Dik-chu-luur-rak</td>
<td>Lapland Longspur</td>
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<td>Siluilliusiarq</td>
<td>Zelu-zelu-ziah-rak</td>
<td>Lapland Longspur</td>
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<td>Cilumcuksugaq</td>
<td>Chelum-chuk zu-rak</td>
<td>McKay’s Snow Dunting</td>
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<td>Cukaarapq</td>
<td>Chuk kaar-pak</td>
<td>Rusty Blackbird</td>
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<td>Tuiraq</td>
<td>Duwc rak</td>
<td>Rcd/Hoary Poll</td>
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<td>Ikigcaaqq</td>
<td>Ekick char rak</td>
<td>Yellow Wagtail</td>
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<td>Ugugerpak</td>
<td>Oeg nue ker pak</td>
<td>Mallard</td>
</tr>
<tr>
<td>Komckungsugraaq</td>
<td>Komck suung air rak</td>
<td>Green winged Teal</td>
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"Silent "E"
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<th>Yup'ik Name</th>
<th>Pronunciation</th>
<th>English Name</th>
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<td>Tengesqaaraq</td>
<td>Deng-es-kaa-rak</td>
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<td>Auuguraq</td>
<td>Ow-giew-rak</td>
<td>American Widgeon</td>
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<td>Uqsguq</td>
<td>Oog-sue-kag</td>
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<td>Oot-kaag</td>
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<td>Oo-gu-leg-ak</td>
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<td>Cugg'erpak</td>
<td>Chew-er-pak</td>
<td>Northern Shoveler</td>
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<td>Kas-zoo-chi-yak</td>
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<td>Keb-ah-lik</td>
<td>Greater Scaup</td>
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<td>Athnernaq</td>
<td>Ath-ner-nak</td>
<td>Greater Scaup</td>
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<td>Met-rak</td>
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<td>Kang-ah-lik</td>
<td>King Eider</td>
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<td>Ah-nar-nish-sha-rak</td>
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<td>Goo-gom-yar-ak</td>
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<td>Akgs-cha-guy-yak</td>
<td>White-winged/surf Scoter</td>
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<td>Chet-tuska-rak</td>
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<td>Ah-hrung-ee-yak</td>
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<td>Gumi-muir-pak</td>
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<td>Bogh-da-goo-da-yar-rak</td>
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<td>Ba-yeek</td>
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<td>lek-lek, nek-leq</td>
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<td>Nut-chow-liik</td>
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<td>Do-dahl-gu-chik</td>
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<td>Le-rrik</td>
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<td>Gor-youk</td>
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<td>Ku-chil-nawk</td>
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<td>Doo-lek</td>
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