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Alaska Subsistence Bird Harvest, 2004–2014 Data Book

Alaska Migratory Bird Co-Management Council

Liliana C. Naves



December 2015

**Alaska Department of Fish and Game
Division of Subsistence**



**Alaska Migratory Bird
Co-Management Council**



Symbols and Abbreviations

The following symbols and abbreviations, and others approved for the Système International d'Unités (SI), are used without definition in the reports by the Division of Subsistence. All others, including deviations from definitions listed below, are noted in the text at first mention, as well as in the titles or footnotes of tables, and in figure or figure captions.

Weights and measures (metric)

centimeter	cm
deciliter	dL
gram	g
hectare	ha
kilogram	kg
kilometer	km
liter	L
meter	m
milliliter	mL
millimeter	mm

Weights and measures (English)

cubic feet per second	ft ³ /s
foot	ft
gallon	gal
inch	in
mile	mi
nautical mile	nmi
ounce	oz
pound	lb
quart	qt
yard	yd

Time and temperature

day	d
degrees Celsius	°C
degrees Fahrenheit	°F
degrees kelvin	K
hour	h
minute	min
second	s

Physics and chemistry

all atomic symbols

alternating current	AC
ampere	A
calorie	cal
direct current	DC
hertz	Hz
horsepower	hp
hydrogen ion activity (negative log of) pH	
parts per million	ppm
parts per thousand	ppt, ‰
volts	V
watts	W

General

all commonly-accepted abbreviations
e.g., Mr., Mrs., AM, PM, etc.

all commonly-accepted professional titles e.g., Dr., Ph.D., R.N., etc.

Alaska Administrative Code AAC

at @

compass directions:

east E

north N

south S

west W

copyright ©

corporate suffixes:

Company Co.

Corporation Corp.

Incorporated Inc.

Limited Ltd.

District of Columbia D.C.

et alii (and others) et al.

et cetera (and so forth) etc.

exempli gratia (for example) e.g.

Federal Information Code FIC

id est (that is) i.e.

latitude or longitude lat. or long.

monetary symbols (U.S.) \$, ¢

months (tables and figures): first three letters (Jan,...,Dec)

registered trademark ®

trademark ™

United States (adjective) U.S.

United States of America (noun) USA

U.S.C. United States Code

U.S. state use two-letter abbreviations (e.g., AK, WA)

Measures (fisheries)

fork length	FL
mid-eye-to-fork	MEF
mid-eye-to-tail-fork	METF
standard length	SL
total length	TL

Mathematics, statistics

all standard mathematical signs, symbols and abbreviations

alternate hypothesis H_A

base of natural logarithm e

catch per unit effort CPUE

coefficient of variation CV

common test statistics (F, t, χ^2 , etc.)

confidence interval CI

correlation coefficient (multiple) R

correlation coefficient (simple) r

covariance cov

degree (angular) °

degrees of freedom df

expected value E

greater than >

greater than or equal to ≥

harvest per unit effort HPUE

less than <

less than or equal to ≤

logarithm (natural) ln

logarithm (base 10) log

logarithm (specify base) log₂, etc.

minute (angular) ' ,

not significant NS

null hypothesis H₀

percent

probability P

probability of a type I error (rejection of the null hypothesis when true) α

probability of a type II error (acceptance of the null hypothesis when false) β

second (angular) "

standard deviation SD

standard error SE

variance

population Var

sample var

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ALASKA SUBSISTENCE BIRD HARVEST, 2004–2014 DATA BOOK

ALASKA MIGRATORY BIRD CO-MANAGEMENT COUNCIL

by

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Front cover photo: Lesser snow goose in banding pen, Colville River Delta, July 2015. The snow goose is an important subsistence resource in Alaska. Increasing snow goose populations may represent increased availability for harvest. Photograph by Liliana C. Naves, ADF&G Division of Subsistence

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ABSTRACT

This document compiles annual subsistence harvest estimates for birds in Alaska for the data years 2004–2014 from previous reports of the Alaska Migratory Bird Co-Management Council (AMBCC). This compilation was prepared to facilitate access to harvest information. Data were collected through the AMBCC Harvest Assessment Program (AMBCC-HAP). This program relies on collaboration among the U.S. Fish and Wildlife Service, the Alaska Department of Fish and Game, and a number of regional Alaska Native organizations. Information obtained by this program is used to evaluate federal subsistence harvest regulations, to document customary and traditional uses of migratory birds in Alaska, and to plan for the continued harvest and conservation of birds. Participation of communities and individual households in the harvest survey is voluntary. The survey covers spring, summer, and fall harvests in most regions. Some regions also have a winter survey. Harvest estimates are based on a stratified multistage clustered sample of communities and households. The sampling frame encompasses all households in regions eligible for the subsistence harvest of migratory birds and their eggs in Alaska. Households are the basic sampling unit. Communities with similar harvest patterns are grouped in subregions. Harvests reported by surveyed communities are extrapolated to nonsurveyed communities in the same subregion. Subregions are grouped into regions, which correspond to the designated migratory bird management regions. Data are usually reported at the subregion and region levels. Regions surveyed have been selected annually depending on monitoring priorities and funding availability.

Key words: Alaska Migratory Bird Co-Management Council, AMBCC, migratory birds, migratory bird eggs, subsistence harvest, subsistence hunting, subsistence harvest estimates, ducks, geese, swans, cranes, ptarmigans, grouses, seabirds, shorebirds, grebes, loons.

INTRODUCTION

Geographic and Temporal Coverage

The Harvest Assessment Program of the Alaska Migratory Bird Co-Management Council (AMBCC-HAP) has conducted annual subsistence harvest surveys in Alaska since 2004. Harvest estimates and annual reports are available for the period 2004–2014 (Naves 2010rev.; Naves 2010; Naves 2011; Naves 2012; Naves 2014; Naves 2015a; Naves 2015b; Naves and Braem 2014).

Not all Alaska regions and subregions are surveyed every year (Figure 1). Annually, regions and subregions are selected based on monitoring priorities and funding availability. Harvest estimates are not reported for regions if nonsurveyed subregions represented more than 25% of the region households. For some years, subregion estimates were not reported for the Bering Strait-Norton Sound (2004, 2005, 2007) and North Slope (2005, 2007, 2008, 2009) regions because Native partners have opposed release of subregion harvest estimates. For these years and regions, only region estimates are reported.

The AMBCC-HAP was reviewed and revised in 2008–2009 (Naves et al. 2008). Although all efforts were made to ensure consistency and continuity in data collection, analysis, and reporting procedures, some adjustments were necessary to fine-tune harvest monitoring. The reference for methods used in 2004–2009 is Naves (2010) and the reference for methods used in 2010–present is Naves (2012). Some discontinuities between these periods refer to (a) species and species categories included in survey forms used in different regions (details below) and (b) separation of fall and winter harvests in 2010–present, while harvests in these seasons were reported together as fall-winter in 2004–2009 surveys.

This compilation presents annual harvest estimates for birds such as that each table refers to a species or species category. Annual harvest estimates are obtained as the sum of seasonal harvest estimates. This compilation does not include seasonal harvest estimates and harvest estimates for bird eggs.

Seasons Surveyed

Most regions are surveyed for spring (2 Apr–30 Jun), summer (1 Jul–31 Aug), and fall (1 Sep–31 Oct) harvests except that:

(a) the Gulf of Alaska-Cook Inlet, Aleutian-Pribilof Islands, and the Kodiak Archipelago regions and the South Alaska Peninsula subregion (Bristol Bay region) also have a winter survey (1 Nov–9 Mar); and

(b) the North Slope region has only spring and summer surveys. Harvest estimates are not reported for the non-surveyed seasons. For most purposes, it is adequate to assume that harvests do not occur in the non-surveyed seasons or are negligible.

Species Included in the Survey

Some changes implemented in 2010 in species and species categories used in the harvest survey are presented in Table 1. Other changes related to species names implemented in 2010–present likely had no effect on how people report their harvests (e.g., Arctic tern is now labelled tern, green-winged teal is now labelled teal, tundra swan is now labeled swan). To facilitate use of the harvest estimates, in this data

book, published region and subregion harvest estimates were combined (summed) to match the species categories currently used in the survey (Appendix A). This process did not involve re-analysis of raw data. Re-analysis of raw data using different species categories could result in slightly different harvest estimates because sampling stratification. In addition, based on species distribution ranges, the following modifications were made:

- 1) All cormorants harvested in the Bering Strait-Norton Sound region were considered as pelagic cormorant (Lehman 2014; Naves and Zeller 2013; Stephensen, Pungowiyi, and Mendenhall 1998).
- 2) Shearwaters harvested on the St. Lawrence-Diomed Islands subregion were considered as short-tailed shearwaters (Denlinger 2006).
- 3) Unknown kittiwakes (birds and eggs) harvested in areas outside the breeding range of the red-legged kittiwake (Denlinger 2006) were considered as black-legged kittiwake.

Table 1.–Discontinuity in species and species categories presented in survey forms.

2010–Present	2004–2009
Merganser	Common merganser, red-breasted merganser
Cackling/Canada goose	Lesser Canada goose, cackling Canada goose
Black-legged kittiwake, red-legged kittiwake	Black-legged kittiwake, red-legged kittiwake, kittiwake (unidentified)
Bonaparte’s/Sabine’s gull	Sabine’s gull
Large gulls	Glaucous-winged gull, glaucous gull, herring gull
Whimbrel/curlew	Whimbrel, Bristle-thighed curlew
Golden/black-bellied plover	Golden plover
Turnstone	Not included
Phalarope	Not included
Grouse	Grouse, spruce grouse

Note Species and species categories presented in this document follow survey methods used in 2010–present.

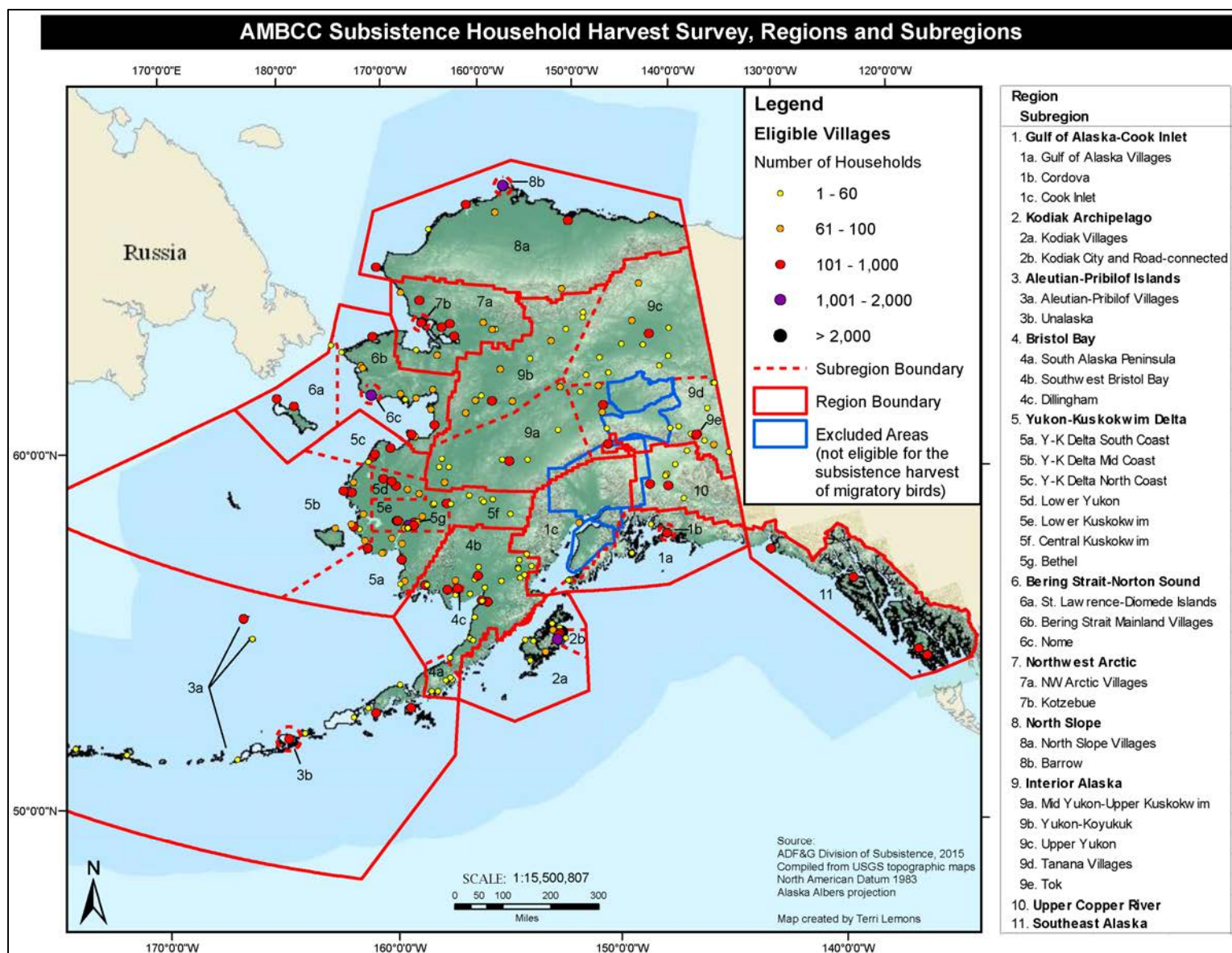


Figure 1.—Regions and subregions of the AMBCC harvest survey.

HARVEST ESTIMATES TABLES

Species categories are presented in the order in which they have been presented in the AMBCC harvest reports. Categories of birds harvested in larger numbers are presented first (below). Non-migratory ptarmigans and grouses are presented after migratory birds. Within categories, species are presented in taxonomic order.

- Ducks
- Geese
- Swans
- Cranes
- Seabirds
- Shorebirds
- Loons and grebes
- Ptarmigans and grouses
- Other (unidentified) birds

Table 2.–American wigeon, Alaska subsistence harvest estimates, 2004–2014.

Regions, subregions	American wigeon harvest estimates (number of birds/year)										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gulf of Alaska-Cook Inlet	0^c	*	*	-	-	-	*	-	-	-	-
Gulf of Alaska Villages	0	-	0	-	-	-	0	-	-	-	-
Cordova	-	-	-	-	-	-	-	-	-	-	1
Cook Inlet	0	0	-	-	-	-	-	-	-	-	-
Kodiak Archipelago	-	-	*	-	-	-	32	-	-	-	-
Kodiak Villages	-	-	196	-	-	-	6	-	-	-	-
Kodiak City & Road-connected	-	-	a	-	-	-	26	-	-	-	-
Aleutian-Pribilof Islands	-	*	-	*	0	-	-	-	-	-	-
Aleutian-Pribilof Villages	-	257	-	0	0	-	-	-	-	-	-
Unalaska	-	-	-	-	0	-	-	-	-	-	-
Bristol Bay	*	1,206	*	333	406	-	-	115	-	-	-
South Alaska Peninsula	8	-	-	0	0	-	-	0	-	-	-
Southwest Bristol Bay	54	526	0	188	365	-	-	102	-	-	-
Dillingham	-	609	-	146	42	-	-	13	-	-	-
Yukon-Kuskokwim Delta	2,064	3,383	3,876	3,699^b	2,776	3,835	4,628	1,886	-	*	-
Y-K Delta South Coast	362	400	183	230	560	267	436	248	-	536	-
Y-K Delta Mid Coast	648	105	852	1,392	204	1,361	1,288	461	-	1,766	-
Y-K Delta North Coast	147	395	341	0	847	789	45	-	-	167	-
Lower Yukon	412	320	471	298	200	362	405	-	-	193	-
Lower Kuskokwim	496	345	917	1,622	682	632	2,411	667	-	641	-
Central Kuskokwim	0	-	4	0	-	-	2	-	-	-	-
Bethel	0	1,733	1,108	157 ^b	223	340	42	110	-	-	-
Bering Strait-Norton Sound	99	565	-	469	-	*	*	*	*	-	-
St. Lawrence-Diomedes Is.	‡	‡	-	‡	-	0	0	4	1	-	-
Bering Strait Mainland Villages	‡	‡	-	‡	-	-	112	-	-	-	-
Nome	‡	‡	-	‡	-	-	-	-	-	-	-
Northwest Arctic	-	-	*	-	-	-	-	-	*	-	-
Northwest Arctic Villages	-	-	685	-	-	-	-	-	-	-	-
Kotzebue	-	-	-	-	-	-	-	-	178	-	-
North Slope	-	0	-	0	0	0	-	-	-	-	-
North Slope Villages	-	‡	-	‡	‡	‡	-	-	-	-	-
Barrow	-	‡	-	‡	‡	‡	-	-	-	-	-
Interior Alaska	4,035	*	2,842	*	*	-	1,129	-	-	-	-
Mid Yukon-Upper Kuskokwim	525	329	138	-	-	-	58	-	-	-	-
Yukon-Koyukuk	275	50	312	343	739	-	432	-	-	-	-
Upper Yukon	1,681	-	717	800	-	-	476	-	-	-	698
Tanana Villages	764	-	1,487	-	-	-	163	-	-	-	-
Tok	-	-	188	-	-	-	0	-	-	-	-
Upper Copper River	13	-	-	0	-	-	-	-	-	-	-

Source 2004–2014 Survey results from Naves (2010rev.; 2010; 2011; 2012; 2014; 2015a; 2015b) and Naves and Braem (2014).

–: Region/subregion not surveyed.

*: Less than 75% of region households represented in sample, region harvest estimates not produced.

‡: Harvest estimates released only at region level.

a: 2006 Fall-winter bird harvest data not available for Kodiak City and Road-connected subregion.

b: 2007 Bethel harvest estimate does not include fall bird harvest.

c: 2004 Chugach-Cook Inlet estimate does not include Cordova, where the subsistence bird hunt was first authorized in 2014.

Table 3.—Teal, Alaska subsistence harvest estimates, 2004–2014.

Regions, subregions	Teal harvest estimates (numbers of birds/year)										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gulf of Alaska-Cook Inlet	77	*	*	-	-	-	*	-	-	-	-
Gulf of Alaska Villages	0	-	0	-	-	-	0	-	-	-	-
Cordova	-	-	-	-	-	-	-	-	-	-	1
Cook Inlet	77	0	-	-	-	-	-	-	-	-	-
Kodiak Archipelago	-	-	*	-	-	-	656	-	-	-	-
Kodiak Villages	-	-	221	-	-	-	72	-	-	-	-
Kodiak City & Road-connected	-	-	a	-	-	-	584	-	-	-	-
Aleutian-Pribilof Islands	-	*	-	*	1,647	-	-	-	-	-	-
Aleutian-Pribilof Villages	-	1,844	-	447	1,566	-	-	-	-	-	-
Unalaska	-	-	-	-	81	-	-	-	-	-	-
Bristol Bay	*	3,778	*	662	919	-	-	584	-	-	-
South Alaska Peninsula	89	-	-	33	0	-	-	41	-	-	-
Southwest Bristol Bay	316	2,051	672	279	816	-	-	412	-	-	-
Dillingham	-	1,503	-	350	103	-	-	131	-	-	-
Yukon-Kuskokwim Delta	1,823	2,956	2,696	2,277 ^b	912	2,486	2,727	1,183	-	*	-
Y-K Delta South Coast	397	330	881	252	273	241	572	264	-	214	-
Y-K Delta Mid Coast	221	458	509	82	93	1,200	77	244	-	655	-
Y-K Delta North Coast	364	202	24	0	183	433	0	-	-	0	-
Lower Yukon	331	144	98	6	0	0	398	-	-	228	-
Lower Kuskokwim	509	799	739	1,662	202	500	1,626	341	-	1,785	-
Central Kuskokwim	0	-	15	0	-	-	7	-	-	-	-
Bethel	0	947	431	276 ^b	142	58	48	83	-	-	-
Bering Strait-Norton Sound	205	750	-	588	-	*	*	*	*	-	-
St. Lawrence-Diomedes Is.	‡	‡	-	‡	-	18	9	3	4	-	-
Bering Strait Mainland Villages	‡	‡	-	‡	-	-	369	-	-	-	-
Nome	‡	‡	-	‡	-	-	-	-	-	-	-
Northwest Arctic	-	-	*	-	-	-	-	-	*	-	-
Northwest Arctic Villages	-	-	93	-	-	-	-	-	-	-	-
Kotzebue	-	-	-	-	-	-	-	-	94	-	-
North Slope	-	0	-	0	0	0	-	-	-	-	-
North Slope Villages	-	‡	-	‡	‡	‡	-	-	-	-	-
Barrow	-	‡	-	‡	‡	‡	-	-	-	-	-
Interior Alaska	1,440	*	1,102	*	*	-	362	-	-	-	-
Mid Yukon-Upper Kuskokwim	278	123	67	-	-	-	79	-	-	-	-
Yukon-Koyukuk	40	0	0	100	60	-	62	-	-	-	-
Upper Yukon	143	-	23	76	-	-	136	-	-	-	87
Tanana Villages	698	-	948	-	-	-	86	-	-	-	-
Tok	-	-	64	-	-	-	0	-	-	-	-
Upper Copper River	42	-	-	0	-	-	-	-	-	-	-

Source: Survey results for 2004–2014 were reported in Naves (2010rev.; 2010; 2011; 2012; 2014; 2015a, 2015b) and Naves and Braem (2014).

-: Region/subregion not surveyed.

*: Less than 75% of region households represented in sample, region harvest estimates not produced.

‡: Harvest estimates released only at region level.

a: 2006 Fall-winter bird harvest data not available for Kodiak City and Road-connected subregion.

b: 2007 Bethel harvest estimate does not include fall bird harvest.

c: 2004 Chugach-Cook Inlet estimate does not include Cordova, where the subsistence bird hunt was first authorized in 2014.

Table 4.–Mallard, Alaska subsistence harvest estimates, 2004–2014.

Regions, subregions	Mallard harvest estimates (number of birds/year)										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gulf of Alaska-Cook Inlet	725 ^c	*	*	-	-	-	*	-	-	-	-
Gulf of Alaska Villages	618	-	93	-	-	-	388	-	-	-	-
Cordova	-	-	-	-	-	-	-	-	-	-	14
Cook Inlet	107	2	-	-	-	-	-	-	-	-	-
Kodiak Archipelago	-	-	*	-	-	-	1,069	-	-	-	-
Kodiak Villages	-	-	1,653	-	-	-	703	-	-	-	-
Kodiak City & Road-connected	-	-	a	-	-	-	366	-	-	-	-
Aleutian-Pribilof Islands	-	*	-	*	2,108	-	-	-	-	-	-
Aleutian-Pribilof Villages	-	1,795	-	0	2,000	-	-	-	-	-	-
Unalaska	-	-	-	-	108	-	-	-	-	-	-
Bristol Bay	*	7,230	*	3,304	3,520	-	-	2,234	-	-	-
South Alaska Peninsula	86	-	-	212	46	-	-	36	-	-	-
Southwest Bristol Bay	3,527	5,289	979	2,500	3,236	-	-	1,982	-	-	-
Dillingham	-	1,513	-	592	237	-	-	215	-	-	-
Yukon-Kuskokwim Delta	8,227	7,141	8,169	8,408 ^b	6,476	9,372	12,744	4,616	-	*	-
Y-K Delta South Coast	1,007	2,073	2,021	3,021	1,263	719	979	1,150	-	1,424	-
Y-K Delta Mid Coast	1,707	609	1,818	1,359	487	3,250	1,626	386	-	2,249	-
Y-K Delta North Coast	1,029	1,026	324	193	638	1,900	128	-	-	134	-
Lower Yukon	829	837	1,283	163	670	871	1,322	-	-	955	-
Lower Kuskokwim	2,262	1,130	1,800	3,469	2,985	2,133	8,297	1,964	-	5,418	-
Central Kuskokwim	59	-	222	0	-	-	218	-	-	-	-
Bethel	1,234	1,284	702	203 ^b	290	295	174	135	-	-	-
Bering Strait-Norton Sound	385	890	-	1,892	-	*	*	*	*	-	-
St. Lawrence-Diomedes Is.	‡	‡	-	‡	-	0	11	7	4	-	-
Bering Strait Mainland Villages	‡	‡	-	‡	-	-	470	-	-	-	-
Nome	‡	‡	-	‡	-	-	-	-	-	-	-
Northwest Arctic	-	-	*	-	-	-	-	-	*	-	-
Northwest Arctic Villages	-	-	1,569	-	-	-	-	-	-	-	-
Kotzebue	-	-	-	-	-	-	-	-	200	-	-
North Slope	-	11	-	16	11	13	-	-	-	-	-
North Slope Villages	-	‡	-	‡	‡	‡	-	-	-	-	-
Barrow	-	‡	-	‡	‡	‡	-	-	-	-	-
Interior Alaska	9,546	*	6,278	*	*	-	4,635	-	-	-	-
Mid Yukon-Upper Kuskokwim	366	298	98	-	-	-	95	-	-	-	-
Yukon-Koyukuk	384	144	112	498	881	-	601	-	-	-	-
Upper Yukon	2,066	-	1,272	1,023	-	-	2,087	-	-	-	1,082
Tanana Villages	4,859	-	3,517	-	-	-	1,706	-	-	-	-
Tok	-	-	1,280	-	-	-	147	-	-	-	-
Upper Copper River	288	-	-	95	-	-	-	-	-	-	-

Source: Survey results for 2004–2014 were reported in Naves (2010rev.; 2010; 2011; 2012; 2014; 2015a; 2015b) and Naves and Braem (2014).

–: Region/subregion not surveyed.

*: Less than 75% of region households represented in sample, region harvest estimates not produced.

‡: Harvest estimates released only at region level.

a: 2006 Fall-winter bird harvest data not available for Kodiak City and Road-connected subregion.

b: 2007 Bethel harvest estimate does not include fall bird harvest.

c: 2004 Chugach-Cook Inlet estimate does not include Cordova, where the subsistence bird hunt was first authorized in 2014.

Table 5.—Northern pintail, Alaska subsistence harvest estimates, 2004–2014.

Regions, subregions	Northern pintail harvest estimates (number of birds/year)										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gulf of Alaska-Cook Inlet	75 ^c	*	*	-	-	-	*	-	-	-	-
Gulf of Alaska Villages	67	-	0	-	-	-	0	-	-	-	-
Cordova	-	-	-	-	-	-	-	-	-	-	15
Cook Inlet	7	2	-	-	-	-	-	-	-	-	-
Kodiak Archipelago	-	-	*	-	-	-	60	-	-	-	-
Kodiak Villages	-	-	164	-	-	-	45	-	-	-	-
Kodiak City & Road-connected	-	-	a	-	-	-	15	-	-	-	-
Aleutian-Pribilof Islands	-	*	-	*	39	-	-	-	-	-	-
Aleutian-Pribilof Villages	-	983	-	0	33	-	-	-	-	-	-
Unalaska	-	-	-	-	6	-	-	-	-	-	-
Bristol Bay	*	4,721	*	2,296	3,276	-	-	1,445	-	-	-
South Alaska Peninsula	26	-	-	55	0	-	-	27	-	-	-
Southwest Bristol Bay	996	3,758	571	1,549	3,068	-	-	1,132	-	-	-
Dillingham	-	685	-	691	207	-	-	286	-	-	-
Yukon-Kuskokwim Delta	9,523	9,236	11,774	11,656 ^b	4,262	11,973	7,815	7,582	-	*	-
Y-K Delta South Coast	1,627	3,288	2,393	2,904	1,409	1,823	994	5,173	-	2,070	-
Y-K Delta Mid Coast	2,713	669	5,790	5,818	1,074	6,310	3,558	470	-	6,018	-
Y-K Delta North Coast	1,327	1,736	556	220	246	1,391	95	-	-	198	-
Lower Yukon	657	596	379	122	306	187	332	-	-	737	-
Lower Kuskokwim	1,904	927	1,666	2,397	899	1,459	2,652	184	-	2,805	-
Central Kuskokwim	29	-	34	0	-	-	7	-	-	-	-
Bethel	1,265	1,785	956	194 ^b	235	542	176	143	-	-	-
Bering Strait-Norton Sound	5,557	15,225	-	3,646	-	*	*	*	*	-	-
St. Lawrence-Diomedes Is.	‡	‡	-	‡	-	99	22	70	75	-	-
Bering Strait Mainland Villages	‡	‡	-	‡	-	-	1,669	-	-	-	-
Nome	‡	‡	-	‡	-	-	-	-	-	-	-
Northwest Arctic	-	-	*	-	-	-	-	-	*	-	-
Northwest Arctic Villages	-	-	1,577	-	-	-	-	-	-	-	-
Kotzebue	-	-	-	-	-	-	-	-	464	-	-
North Slope	-	14	-	112	26	9	-	-	-	-	-
North Slope Villages	-	‡	-	‡	‡	‡	-	-	-	-	-
Barrow	-	‡	-	‡	‡	‡	-	-	-	-	-
Interior Alaska	3,957	*	3,362	*	*	-	2,020	-	-	-	-
Mid Yukon-Upper Kuskokwim	401	227	34	-	-	-	99	-	-	-	-
Yukon-Koyukuk	227	139	264	376	738	-	362	-	-	-	-
Upper Yukon	1,256	-	566	455	-	-	376	-	-	-	775
Tanana Villages	1,298	-	1,819	-	-	-	1,156	-	-	-	-
Tok	-	-	679	-	-	-	27	-	-	-	-
Upper Copper River	20	-	-	18	-	-	-	-	-	-	-

Source: Survey results for 2004–2014 were reported in Naves (2010rev.; 2010; 2011; 2012; 2014; 2015a; 2015b) and Naves and Braem (2014).

–: Region/subregion not surveyed.

*: Less than 75% of region households represented in sample, region harvest estimates not produced.

‡: Harvest estimates released only at region level.

a: 2006 Fall-winter bird harvest data not available for Kodiak City and Road-connected subregion.

b: 2007 Bethel harvest estimate does not include fall bird harvest.

c: 2004 Chugach-Cook Inlet estimate does not include Cordova, where the subsistence bird hunt was first authorized in 2014.

Table 6.—Northern shoveler, Alaska subsistence harvest estimates, 2004–2014.

Regions, subregions	Northern shoveler harvest estimates (number of birds/year)										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gulf of Alaska-Cook Inlet	4^c	*	*	-	-	-	*	-	-	-	-
Gulf of Alaska Villages	0	-	0	-	-	-	0	-	-	-	-
Cordova	-	-	-	-	-	-	-	-	-	-	0
Cook Inlet	4	3	-	-	-	-	-	-	-	-	-
Kodiak Archipelago	-	-	*	-	-	-	0	-	-	-	-
Kodiak Villages	-	-	11	-	-	-	0	-	-	-	-
Kodiak City & Road-connected	-	-	a	-	-	-	0	-	-	-	-
Aleutian-Pribilof Islands	-	*	-	*	0	-	-	-	-	-	-
Aleutian-Pribilof Villages	-	78	-	0	0	-	-	-	-	-	-
Unalaska	-	-	-	-	0	-	-	-	-	-	-
Bristol Bay	*	1,331	*	299	443	-	-	149	-	-	-
South Alaska Peninsula	9	-	-	0	0	-	-	0	-	-	-
Southwest Bristol Bay	217	1,130	35	141	395	-	-	129	-	-	-
Dillingham	-	122	-	158	48	-	-	19	-	-	-
Yukon-Kuskokwim Delta	2,356	2,601	1,994	2,551^b	1,120	5,427	2,465	886	-	*	-
Y-K Delta South Coast	726	1,000	141	235	396	351	288	537	-	470	-
Y-K Delta Mid Coast	294	96	389	655	259	3,805	278	144	-	504	-
Y-K Delta North Coast	147	119	99	0	0	345	104	-	-	65	-
Lower Yukon	342	193	210	52	110	72	266	-	-	197	-
Lower Kuskokwim	795	253	836	1,547	250	687	1,325	16	-	809	-
Central Kuskokwim	11	-	18	0	-	-	4	-	-	-	-
Bethel	42	874	301	62 ^b	81	49	0	0	-	-	-
Bering Strait-Norton Sound	274	645	-	610	-	*	*	*	*	-	-
St. Lawrence-Diomedes Is.	‡	‡	-	‡	-	0	3	0	0	-	-
Bering Strait Mainland Villages	‡	‡	-	‡	-	-	128	-	-	-	-
Nome	‡	‡	-	‡	-	-	-	-	-	-	-
Northwest Arctic	-	-	*	-	-	-	-	-	*	-	-
Northwest Arctic Villages	-	-	444	-	-	-	-	-	-	-	-
Kotzebue	-	-	-	-	-	-	-	-	0	-	-
North Slope	-	0	-	0	0	0	-	-	-	-	-
North Slope Villages	-	‡	-	‡	‡	‡	-	-	-	-	-
Barrow	-	‡	-	‡	‡	‡	-	-	-	-	-
Interior Alaska	1,169	*	808	*	*	-	1,207	-	-	-	-
Mid Yukon-Upper Kuskokwim	40	69	3	-	-	-	37	-	-	-	-
Yukon-Koyukuk	59	18	16	133	441	-	7	-	-	-	-
Upper Yukon	164	-	134	34	-	-	50	-	-	-	18
Tanana Villages	677	-	494	-	-	-	1,113	-	-	-	-
Tok	-	-	161	-	-	-	0	-	-	-	-
Upper Copper River	9	-	-	3	-	-	-	-	-	-	-

Source: Survey results for 2004–2014 were reported in Naves (2010rev.; 2010; 2011; 2012; 2014; 2015a; 2015b) and Naves and Braem (2014).

-: Region/subregion not surveyed.

*: Less than 75% of region households represented in sample, region harvest estimates not produced.

‡: Harvest estimates released only at region level.

a: 2006 Fall-winter bird harvest data not available for Kodiak City and Road-connected subregion.

b: 2007 Bethel harvest estimate does not include fall bird harvest.

c: 2004 Chugach-Cook Inlet estimate does not include Cordova, where the subsistence bird hunt was first authorized in 2014.

Table 7.—Black scoter, Alaska subsistence harvest estimates, 2004–2014.

Regions, subregions	Black scoter harvest estimates (number of birds/year)										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gulf of Alaska-Cook Inlet	308^c	*	*	-	-	-	*	-	-	-	-
Gulf of Alaska Villages	308	-	41	-	-	-	112	-	-	-	-
Cordova	-	-	-	-	-	-	-	-	-	-	0
Cook Inlet	0	0	-	-	-	-	-	-	-	-	-
Kodiak Archipelago	-	-	*	-	-	-	45	-	-	-	-
Kodiak Villages	-	-	413	-	-	-	34	-	-	-	-
Kodiak City & Road-connected	-	-	a	-	-	-	11	-	-	-	-
Aleutian-Pribilof Islands	-	*	-	*	77	-	-	-	-	-	-
Aleutian-Pribilof Villages	-	143	-	383	77	-	-	-	-	-	-
Unalaska	-	-	-	-	0	-	-	-	-	-	-
Bristol Bay	*	601	*	413	125	-	-	647	-	-	-
South Alaska Peninsula	29	-	-	36	14	-	-	7	-	-	-
Southwest Bristol Bay	344	565	510	377	111	-	-	640	-	-	-
Dillingham	-	0	-	0	0	-	-	0	-	-	-
Yukon-Kuskokwim Delta	7,889	3,695	7,318	8,655^b	4,523	8,084	10,339	11,423	-	*	-
Y-K Delta South Coast	1,605	441	397	248	1,071	144	680	491	-	502	-
Y-K Delta Mid Coast	135	0	388	58	20	401	309	62	-	0	-
Y-K Delta North Coast	12	0	0	0	0	0	0	-	-	0	-
Lower Yukon	0	469	454	0	565	227	444	-	-	93	-
Lower Kuskokwim	6,069	1,230	4,695	7,347	2,074	6,655	8,404	8,266	-	4,519	-
Central Kuskokwim	27	-	0	0	-	-	0	-	-	-	-
Bethel	42	1,460	1,385	1,002 ^b	695	479	503	176	-	-	-
Bering Strait-Norton Sound	0	191	-	407	-	*	*	*	*	-	-
St. Lawrence-Diomedes Is.	‡	‡	-	‡	-	0	2	8	0	-	-
Bering Strait Mainland Villages	‡	‡	-	‡	-	-	0	-	-	-	-
Nome	‡	‡	-	‡	-	-	-	-	-	-	-
Northwest Arctic	-	-	*	-	-	-	-	-	*	-	-
Northwest Arctic Villages	-	-	741	-	-	-	-	-	-	-	-
Kotzebue	-	-	-	-	-	-	-	-	60	-	-
North Slope	-	0	-	17	0	0	-	-	-	-	-
North Slope Villages	-	‡	-	‡	‡	‡	-	-	-	-	-
Barrow	-	‡	-	‡	‡	‡	-	-	-	-	-
Interior Alaska	332	*	843	*	*	-	1,338	-	-	-	-
Mid Yukon-Upper Kuskokwim	0	0	0	-	-	-	0	-	-	-	-
Yukon-Koyukuk	7	11	0	0	12	-	0	-	-	-	-
Upper Yukon	0	-	0	6	-	-	0	-	-	-	11
Tanana Villages	260	-	540	-	-	-	1,338	-	-	-	-
Tok	-	-	303	-	-	-	0	-	-	-	-
Upper Copper River	36	-	-	0	-	-	-	-	-	-	-

Source Survey results for 2004–2014 were reported in Naves (2010rev.; 2010; 2011; 2012; 2014; 2015a; 2015b) and Naves and Braem (2014).

–: Region/subregion not surveyed.

*: Less than 75% of region households represented in sample, region harvest estimates not produced.

‡: Harvest estimates released only at region level.

a: 2006 Fall-winter bird harvest data not available for Kodiak City and Road-connected subregion.

b: 2007 Bethel harvest estimate does not include fall bird harvest.

c: 2004 Chugach-Cook Inlet estimate does not include Cordova, where the subsistence bird hunt was first authorized in 2014.

Table 8.—Surf scoter, Alaska subsistence harvest estimates, 2004–2014.

Regions, subregions	Surf scoter harvest estimates (number of birds/year)										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gulf of Alaska-Cook Inlet	168^c	*	*	-	-	-	*	-	-	-	-
Gulf of Alaska Villages	168	-	4	-	-	-	61	-	-	-	-
Cordova	-	-	-	-	-	-	-	-	-	-	0
Cook Inlet	0	0	-	-	-	-	-	-	-	-	-
Kodiak Archipelago	-	-	*	-	-	-	48	-	-	-	-
Kodiak Villages	-	-	247	-	-	-	7	-	-	-	-
Kodiak City & Road-connected	-	-	a	-	-	-	41	-	-	-	-
Aleutian-Pribilof Islands	-	*	-	*	0	-	-	-	-	-	-
Aleutian-Pribilof Villages	-	15	-	0	0	-	-	-	-	-	-
Unalaska	-	-	-	-	0	-	-	-	-	-	-
Bristol Bay	*	423	*	97	102	-	-	39	-	-	-
South Alaska Peninsula	28	-	-	6	0	-	-	0	-	-	-
Southwest Bristol Bay	15	273	218	92	102	-	-	39	-	-	-
Dillingham	-	125	-	0	0	-	-	0	-	-	-
Yukon-Kuskokwim Delta	102	1,007	1,634	1,391^b	714	1,268	2,691	1,360	-	*	-
Y-K Delta South Coast	63	47	47	14	30	0	109	31	-	36	-
Y-K Delta Mid Coast	0	0	223	0	0	0	54	34	-	0	-
Y-K Delta North Coast	0	0	6	0	0	0	0	-	-	0	-
Lower Yukon	0	35	121	18	28	61	38	-	-	138	-
Lower Kuskokwim	39	371	1,237	1,276	434	1,179	2,397	921	-	1,849	-
Central Kuskokwim	0	-	0	0	-	-	78	-	-	-	-
Bethel	0	528	0	82 ^b	207	0	16	85	-	-	-
Bering Strait-Norton Sound	0	111	-	0	-	*	*	*	*	-	-
St. Lawrence-Diomedes Is.	‡	‡	-	‡	-	18	2	12	0	-	-
Bering Strait Mainland Villages	‡	‡	-	‡	-	-	33	-	-	-	-
Nome	‡	‡	-	‡	-	-	-	-	-	-	-
Northwest Arctic	-	-	*	-	-	-	-	-	*	-	-
Northwest Arctic Villages	-	-	44	-	-	-	-	-	-	-	-
Kotzebue	-	-	-	-	-	-	-	-	0	-	-
North Slope	-	0	-	0	0	0	-	-	-	-	-
North Slope Villages	-	‡	-	‡	‡	‡	-	-	-	-	-
Barrow	-	‡	-	‡	‡	‡	-	-	-	-	-
Interior Alaska	737	*	682	*	*	-	96	-	-	-	-
Mid Yukon-Upper Kuskokwim	44	14	0	-	-	-	0	-	-	-	-
Yukon-Koyukuk	87	0	16	55	381	-	67	-	-	-	-
Upper Yukon	19	-	44	69	-	-	29	-	-	-	27
Tanana Villages	444	-	428	-	-	-	0	-	-	-	-
Tok	-	-	194	-	-	-	0	-	-	-	-
Upper Copper River	0	-	-	0	-	-	-	-	-	-	-

Source Survey results for 2004–2014 were reported in Naves (2010rev.; 2010; 2011; 2012; 2014; 2015a; 2015b) and Naves and Braem (2014).

–: Region/subregion not surveyed.

*: Less than 75% of region households represented in sample, region harvest estimates not produced.

‡: Harvest estimates released only at region level.

a: 2006 Fall-winter bird harvest data not available for Kodiak City and Road-connected subregion.

b: 2007 Bethel harvest estimate does not include fall bird harvest.

c: 2004 Chugach-Cook Inlet estimate does not include Cordova, where the subsistence bird hunt was first authorized in 2014.

Table 9.—White-winged scoter, Alaska subsistence harvest, 2004–2014.

Regions, subregions	White-winged scoter harvest estimates (number of birds/year)										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gulf of Alaska-Cook Inlet	94^c	*	*	-	-	-	*	-	-	-	-
Gulf of Alaska Villages	94	-	0	-	-	-	44	-	-	-	-
Cordova	-	-	-	-	-	-	-	-	-	-	0
Cook Inlet	0	0	-	-	-	-	-	-	-	-	-
Kodiak Archipelago	-	-	*	-	-	-	122	-	-	-	-
Kodiak Villages	-	-	278	-	-	-	101	-	-	-	-
Kodiak City & Road-connected	-	-	a	-	-	-	21	-	-	-	-
Aleutian-Pribilof Islands	-	*	-	*	58	-	-	-	-	-	-
Aleutian-Pribilof Villages	-	123	-	1,021	58	-	-	-	-	-	-
Unalaska	-	-	-	-	0	-	-	-	-	-	-
Bristol Bay	*	172	*	81	0	-	-	251	-	-	-
South Alaska Peninsula	0	-	-	9	0	-	-	0	-	-	-
Southwest Bristol Bay	21	162	179	71	0	-	-	251	-	-	-
Dillingham	-	0	-	0	0	-	-	0	-	-	-
Yukon-Kuskokwim Delta	2,277	842	3,873	1,700^b	2,720	2,141	7,646	2,730	-	*	-
Y-K Delta South Coast	258	134	146	234	34	10	737	288	-	160	-
Y-K Delta Mid Coast	0	39	131	0	0	0	43	0	-	0	-
Y-K Delta North Coast	0	0	0	0	0	20	0	-	-	0	-
Lower Yukon	0	34	23	0	19	67	84	-	-	14	-
Lower Kuskokwim	962	370	3,206	1,340	2,288	1,462	6,691	1,817	-	629	-
Central Kuskokwim	0	-	30	0	-	-	0	-	-	-	-
Bethel	1,058	243	336	125 ^b	320	534	90	45	-	-	-
Bering Strait-Norton Sound	30	73	-	0	-	*	*	*	*	-	-
St. Lawrence-Diomedes Is.	‡	‡	-	‡	-	45	0	13	31	-	-
Bering Strait Mainland Villages	‡	‡	-	‡	-	-	0	-	-	-	-
Nome	‡	‡	-	‡	-	-	-	-	-	-	-
Northwest Arctic	-	-	*	-	-	-	-	-	*	-	-
Northwest Arctic Villages	-	-	32	-	-	-	-	-	-	-	-
Kotzebue	-	-	-	-	-	-	-	-	15	-	-
North Slope	-	0	-	5	0	0	-	-	-	-	-
North Slope Villages	-	‡	-	‡	‡	‡	-	-	-	-	-
Barrow	-	‡	-	‡	‡	‡	-	-	-	-	-
Interior Alaska	4,009	*	4,113	*	*	-	4,906	-	-	-	-
Mid Yukon-Upper Kuskokwim	16	0	0	-	-	-	0	-	-	-	-
Yukon-Koyukuk	90	0	0	0	381	-	0	-	-	-	-
Upper Yukon	2,437	-	2,502	5,331	-	-	3,654	-	-	-	1,495
Tanana Villages	681	-	394	-	-	-	1,252	-	-	-	-
Tok	-	-	1,216	-	-	-	0	-	-	-	-
Upper Copper River	109	-	-	0	-	-	-	-	-	-	-

Source: Survey results for 2004–2014 were reported in Naves (2010rev.; 2010; 2011; 2012; 2014; 2015a; 2015b) and Naves and Braem (2014).

–: Region/subregion not surveyed.

*: Less than 75% of region households represented in sample, region harvest estimates not produced.

‡: Harvest estimates released only at region level.

a: 2006 Fall-winter bird harvest data not available for Kodiak City and Road-connected subregion.

b: 2007 Bethel harvest estimate does not include fall bird harvest.

c: 2004 Chugach-Cook Inlet estimates does not include Cordova, where the subsistence bird hunt was first authorized in 2014.

Table 10.—Bufflehead, Alaska subsistence harvest estimates, 2004–2014.

Regions, subregions	Bufflehead harvest estimates (number of birds/year)										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gulf of Alaska-Cook Inlet	27 ^c	*	*	-	-	-	*	-	-	-	-
Gulf of Alaska Villages	27	-	61	-	-	-	87	-	-	-	-
Cordova	-	-	-	-	-	-	-	-	-	-	0
Cook Inlet	0	0	-	-	-	-	-	-	-	-	-
Kodiak Archipelago	-	-	*	-	-	-	175	-	-	-	-
Kodiak Villages	-	-	636	-	-	-	147	-	-	-	-
Kodiak City & Road-connected	-	-	a	-	-	-	28	-	-	-	-
Aleutian-Pribilof Islands	-	*	-	*	29	-	-	-	-	-	-
Aleutian-Pribilof Villages	-	242	-	192	29	-	-	-	-	-	-
Unalaska	-	-	-	-	0	-	-	-	-	-	-
Bristol Bay	*	40	*	55	0	-	-	7	-	-	-
South Alaska Peninsula	24	-	-	13	0	-	-	7	-	-	-
Southwest Bristol Bay	0	38	59	42	0	-	-	0	-	-	-
Dillingham	-	0	-	0	0	-	-	0	-	-	-
Yukon-Kuskokwim Delta	457	138	359	409 ^b	201	37	314	93	-	*	-
Y-K Delta South Coast	17	32	0	0	107	0	56	4	-	0	-
Y-K Delta Mid Coast	17	0	0	0	0	0	0	5	-	0	-
Y-K Delta North Coast	0	0	0	0	0	25	0	-	-	0	-
Lower Yukon	0	5	0	0	0	0	21	-	-	0	-
Lower Kuskokwim	423	97	338	409	89	11	237	23	-	992	-
Central Kuskokwim	0	-	20	0	-	-	0	-	-	-	-
Bethel	0	0	0	0 ^b	0	0	0	41	-	-	-
Bering Strait-Norton Sound	2	103	-	0	-	*	*	*	*	-	-
St. Lawrence-Diomedes Is.	‡	‡	-	‡	-	0	0	0	0	-	-
Bering Strait Mainland Villages	‡	‡	-	‡	-	-	0	-	-	-	-
Nome	‡	‡	-	‡	-	-	-	-	-	-	-
Northwest Arctic	-	-	*	-	-	-	-	-	*	-	-
Northwest Arctic Villages	-	-	0	-	-	-	-	-	-	-	-
Kotzebue	-	-	-	-	-	-	-	-	0	-	-
North Slope	-	0	-	0	0	0	-	-	-	-	-
North Slope Villages	-	‡	-	‡	‡	‡	-	-	-	-	-
Barrow	-	‡	-	‡	‡	‡	-	-	-	-	-
Interior Alaska	1,264	*	457	*	*	-	1,134	-	-	-	-
Mid Yukon-Upper Kuskokwim	72	24	0	-	-	-	0	-	-	-	-
Yukon-Koyukuk	3	0	0	0	0	-	0	-	-	-	-
Upper Yukon	46	-	130	28	-	-	21	-	-	-	32
Tanana Villages	899	-	133	-	-	-	1,113	-	-	-	-
Tok	-	-	194	-	-	-	0	-	-	-	-
Upper Copper River	24	-	-	0	-	-	-	-	-	-	-

Source: Survey results for 2004–2014 were reported in Naves (2010rev.; 2010; 2011; 2012; 2014; 2015a; 2015b) and Naves and Braem (2014).

–: Region/subregion not surveyed.

*: Less than 75% of region households represented in sample, region harvest estimates not produced.

‡: Harvest estimates released only at region level.

a: 2006 Fall-winter bird harvest data not available for Kodiak City and Road-connected subregion.

b: 2007 Bethel harvest estimate does not include fall bird harvest.

c: 2004 Chugach-Cook Inlet estimate does not include Cordova, where the subsistence bird hunt was first authorized in 2014.

Table 11.—Goldeneye, Alaska subsistence harvest estimates, 2004–2014.

Regions, subregions	Goldeneye harvest estimates (number of birds/year)										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gulf of Alaska-Cook Inlet	715 ^c	*	*	-	-	-	*	-	-	-	-
Gulf of Alaska Villages	715	-	300	-	-	-	62	-	-	-	-
Cordova	-	-	-	-	-	-	-	-	-	-	0
Cook Inlet	0	0	-	-	-	-	-	-	-	-	-
Kodiak Archipelago	-	-	*	-	-	-	673	-	-	-	-
Kodiak Villages	-	-	896	-	-	-	590	-	-	-	-
Kodiak City & Road-connected	-	-	a	-	-	-	83	-	-	-	-
Aleutian-Pribilof Islands	-	*	-	*	30	-	-	-	-	-	-
Aleutian-Pribilof Villages	-	879	-	0	3	-	-	-	-	-	-
Unalaska	-	-	-	-	27	-	-	-	-	-	-
Bristol Bay	*	1,386	*	260	280	-	-	116	-	-	-
South Alaska Peninsula	38	-	-	95	0	-	-	30	-	-	-
Southwest Bristol Bay	150	1,094	56	163	275	-	-	80	-	-	-
Dillingham	-	210	-	3	5	-	-	6	-	-	-
Yukon-Kuskokwim Delta	2,053	504	967	1,111 ^b	344	288	5,659	596	-	*	-
Y-K Delta South Coast	171	66	20	61	197	0	304	100	-	600	-
Y-K Delta Mid Coast	73	0	0	0	0	0	42	10	-	0	-
Y-K Delta North Coast	0	0	0	0	0	0	0	-	-	0	-
Lower Yukon	13	89	33	0	48	15	401	-	-	38	-
Lower Kuskokwim	1,438	303	826	1,049	71	260	4,853	359	-	2,185	-
Central Kuskokwim	6	-	41	0	-	-	52	-	-	-	-
Bethel	353	33	50	0 ^b	20	7	9	0	-	-	-
Bering Strait-Norton Sound	33	29	-	0	-	*	*	*	*	-	-
St. Lawrence-Diomedes Is.	‡	‡	-	‡	-	0	36	16	0	-	-
Bering Strait Mainland Villages	‡	‡	-	‡	-	-	0	-	-	-	-
Nome	‡	‡	-	‡	-	-	-	-	-	-	-
Northwest Arctic	-	-	*	-	-	-	-	-	*	-	-
Northwest Arctic Villages	-	-	44	-	-	-	-	-	-	-	-
Kotzebue	-	-	-	-	-	-	-	-	0	-	-
North Slope	-	0	-	0	0	0	-	-	-	-	-
North Slope Villages	-	‡	-	‡	‡	‡	-	-	-	-	-
Barrow	-	‡	-	‡	‡	‡	-	-	-	-	-
Interior Alaska	1,182	*	1,527	*	*	-	1,199	-	-	-	-
Mid Yukon-Upper Kuskokwim	60	61	0	-	-	-	0	-	-	-	-
Yukon-Koyukuk	15	0	0	0	0	-	8	-	-	-	-
Upper Yukon	219	-	95	100	-	-	35	-	-	-	177
Tanana Villages	657	-	1,102	-	-	-	1,156	-	-	-	-
Tok	-	-	331	-	-	-	0	-	-	-	-
Upper Copper River	15	-	-	12	-	-	-	-	-	-	-

Source Survey results for 2004–2014 were reported in Naves (2010rev.; 2010; 2011; 2012; 2014; 2015a; 2015b) and Naves and Braem (2014).

–: Region/subregion not surveyed.

*: Less than 75% of region households represented in sample, region harvest estimates not produced.

‡: Harvest estimates released only at region level.

a: 2006 Fall-winter bird harvest data not available for Kodiak City and Road-connected subregion.

b: 2007 Bethel harvest estimate does not include fall bird harvest.

c: 2004 Chugach-Cook Inlet estimates does not include Cordova, where the subsistence bird hunt was first authorized in 2014.

Table 12.—Canvasback, Alaska subsistence harvest estimates, 2004–2014.

Regions, subregions	Canvasback harvest estimates (number of birds/year)										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gulf of Alaska-Cook Inlet	0^c	*	*	-	-	-	*	-	-	-	-
Gulf of Alaska Villages	0	-	0	-	-	-	0	-	-	-	-
Cordova	-	-	-	-	-	-	-	-	-	-	0
Cook Inlet	0	0	-	-	-	-	-	-	-	-	-
Kodiak Archipelago	-	-	*	-	-	-	0	-	-	-	-
Kodiak Villages	-	-	10	-	-	-	0	-	-	-	-
Kodiak City & Road-connected	-	-	a	-	-	-	0	-	-	-	-
Aleutian-Pribilof Islands	-	*	-	*	0	-	-	-	-	-	-
Aleutian-Pribilof Villages	-	185	-	0	0	-	-	-	-	-	-
Unalaska	-	-	-	-	0	-	-	-	-	-	-
Bristol Bay	*	241	*	140	0	-	-	2	-	-	-
South Alaska Peninsula	0	-	-	0	0	-	-	0	-	-	-
Southwest Bristol Bay	62	220	318	140	0	-	-	2	-	-	-
Dillingham	-	6	-	0	0	-	-	0	-	-	-
Yukon-Kuskokwim Delta	2,013	944	870	605^b	230	584	2,097	237	-	*	-
Y-K Delta South Coast	72	56	20	20	33	20	40	31	-	86	-
Y-K Delta Mid Coast	34	5	0	0	0	0	0	39	-	0	-
Y-K Delta North Coast	60	0	0	0	0	0	28	-	-	19	-
Lower Yukon	0	65	66	0	0	10	71	-	-	57	-
Lower Kuskokwim	1,764	298	727	585	186	529	1,929	33	-	1,080	-
Central Kuskokwim	0	-	0	0	-	-	0	-	-	-	-
Bethel	83	496	58	0 ^b	6	13	29	84	-	-	-
Bering Strait-Norton Sound	31	12	-	35	-	*	*	*	*	-	-
St. Lawrence-Diomedes Is.	‡	‡	-	‡	-	0	0	8	0	-	-
Bering Strait Mainland Villages	‡	‡	-	‡	-	-	44	-	-	-	-
Nome	‡	‡	-	‡	-	-	-	-	-	-	-
Northwest Arctic	-	-	*	-	-	-	-	-	*	-	-
Northwest Arctic Villages	-	-	56	-	-	-	-	-	-	-	-
Kotzebue	-	-	-	-	-	-	-	-	23	-	-
North Slope	-	0	-	0	0	0	-	-	-	-	-
North Slope Villages	-	‡	-	‡	‡	‡	-	-	-	-	-
Barrow	-	‡	-	‡	‡	‡	-	-	-	-	-
Interior Alaska	1,191	*	857	*	*	-	1,203	-	-	-	-
Mid Yukon-Upper Kuskokwim	4	12	0	-	-	-	0	-	-	-	-
Yukon-Koyukuk	36	4	0	243	358	-	39	-	-	-	-
Upper Yukon	434	-	349	45	-	-	976	-	-	-	85
Tanana Villages	484	-	375	-	-	-	189	-	-	-	-
Tok	-	-	134	-	-	-	0	-	-	-	-
Upper Copper River	4	-	-	30	-	-	-	-	-	-	-

Source: Survey results for 2004–2014 were reported in Naves (2010rev.; 2010; 2011; 2012; 2014; 2015a; 2015b) and Naves and Braem (2014).

–: Region/subregion not surveyed.

*: Less than 75% of region households represented in sample, region harvest estimates not produced.

‡: Harvest estimates released only at region level.

a: 2006 Fall-winter bird harvest data not available for Kodiak City and Road-connected subregion.

b: 2007 Bethel harvest estimate does not include fall bird harvest.

c: 2004 Chugach-Cook Inlet estimate does not include Cordova, where the subsistence bird hunt was first authorized in 2014.

Table 13.—Scaup, Alaska subsistence harvest estimates, 2004–2014.

Regions, subregions	Scaup harvest estimates (number of birds/year)										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gulf of Alaska-Cook Inlet	46^c	*	*	-	-	-	*	-	-	-	-
Gulf of Alaska Villages	46	-	8	-	-	-	0	-	-	-	-
Cordova	-	-	-	-	-	-	-	-	-	-	0
Cook Inlet	0	2	-	-	-	-	-	-	-	-	-
Kodiak Archipelago	-	-	*	-	-	-	16	-	-	-	-
Kodiak Villages	-	-	354	-	-	-	0	-	-	-	-
Kodiak City & Road-connected	-	-	a	-	-	-	16	-	-	-	-
Aleutian-Pribilof Islands	-	*	-	*	9	-	-	-	-	-	-
Aleutian-Pribilof Villages	-	214	-	64	9	-	-	-	-	-	-
Unalaska	-	-	-	-	0	-	-	-	-	-	-
Bristol Bay	*	345	*	48	2	-	-	9	-	-	-
South Alaska Peninsula	5	-	-	22	0	-	-	0	-	-	-
Southwest Bristol Bay	20	107	0	26	0	-	-	0	-	-	-
Dillingham	-	218	-	0	2	-	-	9	-	-	-
Yukon-Kuskokwim Delta	15,517	3,296	11,380	15,714^b	3,640	7,110	7,546	2,611	-	*	-
Y-K Delta South Coast	2,000	495	487	392	998	90	431	351	-	1,212	-
Y-K Delta Mid Coast	531	73	705	1,311	0	0	856	5	-	215	-
Y-K Delta North Coast	4	4	0	0	180	36	7	-	-	0	-
Lower Yukon	65	0	17	5	0	0	122	-	-	20	-
Lower Kuskokwim	12,856	2,022	9,391	13,881	2,031	6,708	6,057	1,694	-	12,241	-
Central Kuskokwim	0	-	8	0	-	-	0	-	-	-	-
Bethel	62	619	773	125 ^b	351	120	72	6	-	-	-
Bering Strait-Norton Sound	82	241	-	22	-	*	*	*	*	-	-
St. Lawrence-Diomedes Is.	‡	‡	-	‡	-	0	0	0	0	-	-
Bering Strait Mainland Villages	‡	‡	-	‡	-	-	21	-	-	-	-
Nome	‡	‡	-	‡	-	-	-	-	-	-	-
Northwest Arctic	-	-	*	-	-	-	-	-	*	-	-
Northwest Arctic Villages	-	-	150	-	-	-	-	-	-	-	-
Kotzebue	-	-	-	-	-	-	-	-	76	-	-
North Slope	-	6	-	89	0	0	-	-	-	-	-
North Slope Villages	-	‡	-	‡	‡	‡	-	-	-	-	-
Barrow	-	‡	-	‡	‡	‡	-	-	-	-	-
Interior Alaska	780	*	573	*	*	-	1,486	-	-	-	-
Mid Yukon-Upper Kuskokwim	8	5	0	-	-	-	0	-	-	-	-
Yukon-Koyukuk	30	0	0	210	358	-	92	-	-	-	-
Upper Yukon	38	-	180	145	-	-	281	-	-	-	57
Tanana Villages	551	-	156	-	-	-	1,113	-	-	-	-
Tok	-	-	237	-	-	-	0	-	-	-	-
Upper Copper River	13	-	-	0	-	-	-	-	-	-	-

Source: Survey results for 2004–2014 were reported in Naves (2010rev.; 2010; 2011; 2012; 2014; 2015a; 2015b) and Naves and Braem (2014).

–: Region/subregion not surveyed.

*: Less than 75% of region households represented in sample, region harvest estimates not produced.

‡: Harvest estimates released only at region level.

a: 2006 Fall-winter bird harvest data not available for Kodiak City and Road-connected subregion.

b: 2007 Bethel harvest estimate does not include fall bird harvest.

c: 2004 Chugach-Cook Inlet estimate does not include Cordova, where the subsistence bird hunt was first authorized in 2014.

Table 14.–Common eider, Alaska subsistence harvest estimates, 2004–2014.

Regions, subregions	Common eider harvest estimates (number of birds/year)										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gulf of Alaska-Cook Inlet	0^c	*	*	-	-	-	*	-	-	-	-
Gulf of Alaska Villages	0	-	0	-	-	-	0	-	-	-	-
Cordova	-	-	-	-	-	-	-	-	-	-	0
Cook Inlet	0	0	-	-	-	-	-	-	-	-	-
Kodiak Archipelago	-	-	*	-	-	-	0	-	-	-	-
Kodiak Villages	-	-	0	-	-	-	0	-	-	-	-
Kodiak City & Road-connected	-	-	a	-	-	-	0	-	-	-	-
Aleutian-Pribilof Islands	-	*	-	*	0	-	-	-	-	-	-
Aleutian-Pribilof Villages	-	72	-	0	0	-	-	-	-	-	-
Unalaska	-	-	-	-	0	-	-	-	-	-	-
Bristol Bay	*	14	*	85	22	-	-	0	-	-	-
South Alaska Peninsula	0	-	-	22	0	-	-	0	-	-	-
Southwest Bristol Bay	576	13	291	63	0	-	-	0	-	-	-
Dillingham	-	0	-	0	22	-	-	0	-	-	-
Yukon-Kuskokwim Delta	364	87	393	175^b	11	285	680	454	-	*	-
Y-K Delta South Coast	0	33	0	62	0	0	468	171	-	73	-
Y-K Delta Mid Coast	356	30	393	107	11	278	211	187	-	332	-
Y-K Delta North Coast	8	0	0	0	0	0	0	-	-	5	-
Lower Yukon	0	0	0	0	0	0	0	-	-	0	-
Lower Kuskokwim	0	0	0	6	0	0	0	0	-	22	-
Central Kuskokwim	0	-	0	0	-	-	0	-	-	-	-
Bethel	0	22	0	0 ^b	0	0	0	0	-	-	-
Bering Strait-Norton Sound	2,265	3,522	-	4,901	-	*	*	*	*	-	-
St. Lawrence-Diomedes Is.	‡	‡	-	‡	-	2,409	516	615	476	-	-
Bering Strait Mainland Villages	‡	‡	-	‡	-	-	448	-	-	-	-
Nome	‡	‡	-	‡	-	-	-	-	-	-	-
Northwest Arctic	-	-	*	-	-	-	-	-	*	-	-
Northwest Arctic Villages	-	-	36	-	-	-	-	-	-	-	-
Kotzebue	-	-	-	-	-	-	-	-	0	-	-
North Slope	-	811	-	2,572	3,166	1,912	-	-	-	-	-
North Slope Villages	-	‡	-	‡	‡	‡	-	-	-	-	-
Barrow	-	‡	-	‡	‡	‡	-	-	-	-	-
Interior Alaska	d	*	d	*	*	-	d	-	-	-	-
Mid Yukon-Upper Kuskokwim	d	d	d	-	-	-	d	-	-	-	-
Yukon-Koyukuk	d	d	d	d	d	-	d	-	-	-	-
Upper Yukon	d	-	d	d	-	-	d	-	-	-	d
Tanana Villages	d	-	d	-	-	-	d	-	-	-	-
Tok	-	-	d	-	-	-	d	-	-	-	-
Upper Copper River	d	-	-	d	-	-	-	-	-	-	-

Source: Survey results for 2004–2014 were reported in Naves (2010rev.; 2010; 2011; 2012; 2014; 2015a; 2015b) and Naves and Braem (2014).

–: Region/subregion not surveyed.

*: Less than 75% of region households represented in sample, region harvest estimates not produced.

‡: Harvest estimates released only at region level.

a: 2006 Fall-winter bird harvest data not available for Kodiak City and Road-connected subregion.

b: 2007 Bethel harvest estimate does not include fall bird harvest.

c: 2004 Chugach-Cook Inlet estimate does not include Cordova, where the subsistence bird hunt was first authorized in 2014.

d: Species does not occur in these subregions and regions.

Table 15.—King eider, Alaska subsistence harvest estimates, 2004–2014.

Regions, subregions	King eider harvest estimates (number of birds/year)										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gulf of Alaska-Cook Inlet	0^c	*	*	-	-	-	*	-	-	-	-
Gulf of Alaska Villages	0	-	0	-	-	-	0	-	-	-	-
Cordova	-	-	-	-	-	-	-	-	-	-	0
Cook Inlet	0	0	-	-	-	-	-	-	-	-	-
Kodiak Archipelago	-	-	*	-	-	-	0	-	-	-	-
Kodiak Villages	-	-	6	-	-	-	0	-	-	-	-
Kodiak City & Road-connected	-	-	a	-	-	-	0	-	-	-	-
Aleutian-Pribilof Islands	-	*	-	*	0	-	-	-	-	-	-
Aleutian-Pribilof Villages	-	80	-	0	0	-	-	-	-	-	-
Unalaska	-	-	-	-	0	-	-	-	-	-	-
Bristol Bay	*	394	*	919	64	-	-	1,020	-	-	-
South Alaska Peninsula	0	-	-	0	0	-	-	0	-	-	-
Southwest Bristol Bay	808	371	4,773	919	64	-	-	1,020	-	-	-
Dillingham	-	0	-	0	0	-	-	0	-	-	-
Yukon-Kuskokwim Delta	3,482	3,399	6,213	9,995^b	427	11,573	5,597	7,472	-	*	-
Y-K Delta South Coast	133	2,432	1,878	5,836	108	8,140	112	4,969	-	278	-
Y-K Delta Mid Coast	3,349	785	4,242	3,930	176	2,953	5,210	788	-	7,345	-
Y-K Delta North Coast	0	0	0	0	0	9	0	-	-	0	-
Lower Yukon	0	0	0	0	0	0	25	-	-	5	-
Lower Kuskokwim	0	0	44	19	0	0	70	0	-	170	-
Central Kuskokwim	0	-	0	0	-	-	0	-	-	-	-
Bethel	0	95	49	210 ^b	134	218	180	127	-	-	-
Bering Strait-Norton Sound	506	1,060	-	3,738	-	*	*	*	*	-	-
St. Lawrence-Diomedes Is.	‡	‡	-	‡	-	983	108	158	92	-	-
Bering Strait Mainland Villages	‡	‡	-	‡	-	-	0	-	-	-	-
Nome	‡	‡	-	‡	-	-	-	-	-	-	-
Northwest Arctic	-	-	*	-	-	-	-	-	*	-	-
Northwest Arctic Villages	-	-	0	-	-	-	-	-	-	-	-
Kotzebue	-	-	-	-	-	-	-	-	4	-	-
North Slope	-	5,525	-	15,231	14,157	4,319	-	-	-	-	-
North Slope Villages	-	‡	-	‡	‡	‡	-	-	-	-	-
Barrow	-	‡	-	‡	‡	‡	-	-	-	-	-
Interior Alaska	d	*	d	*	*	-	d	-	-	-	-
Mid Yukon-Upper Kuskokwim	d	d	d	-	-	-	d	-	-	-	-
Yukon-Koyukuk	d	d	d	d	d	-	d	-	-	-	-
Upper Yukon	d	-	d	d	-	-	d	-	-	-	d
Tanana Villages	d	-	d	-	-	-	d	-	-	-	-
Tok	-	-	d	-	-	-	d	-	-	-	-
Upper Copper River	d	-	-	d	-	-	-	-	-	-	-

Source Survey results for 2004–2014 were reported in Naves (2010rev.; 2010; 2011; 2012; 2014; 2015a; 2015b) and Naves and Braem (2014).

–: Region/subregion not surveyed.

*: Less than 75% of region households represented in sample, region harvest estimates not produced.

‡: Harvest estimates released only at region level.

a: 2006 Fall-winter bird harvest data not available for Kodiak City and Road-connected subregion.

b: 2007 Bethel harvest estimate does not include fall bird harvest.

c: 2004 Chugach-Cook Inlet estimate does not include Cordova, where the subsistence bird hunt was first authorized in 2014.

d: Species does not occur in these subregions and regions.

Table 16.—Spectacled eider, Alaska subsistence harvest estimates, 2004–2014.

Regions, subregions	Spectacled eider harvest estimates (number of birds/year)										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gulf of Alaska-Cook Inlet	0^c	*	*	-	-	-	*	-	-	-	-
Gulf of Alaska Villages	0	-	0	-	-	-	d	-	-	-	-
Cordova	-	-	-	-	-	-	-	-	-	-	d
Cook Inlet	0	0	-	-	-	-	-	-	-	-	-
Kodiak Archipelago	-	-	*	-	-	-	d	-	-	-	-
Kodiak Villages	-	-	0	-	-	-	d	-	-	-	-
Kodiak City & Road-connected	-	-	a	-	-	-	d	-	-	-	-
Aleutian-Pribilof Islands	-	*	-	*	0	-	-	-	-	-	-
Aleutian-Pribilof Villages	-	0	-	0	0	-	-	-	-	-	-
Unalaska	-	-	-	-	0	-	-	-	-	-	-
Bristol Bay	*	0	*	131	0	-	-	0	-	-	-
South Alaska Peninsula	0	-	-	0	0	-	-	d	-	-	-
Southwest Bristol Bay	236	0	0	131	0	-	-	0	-	-	-
Dillingham	-	0	-	0	0	-	-	0	-	-	-
Yukon-Kuskokwim Delta	55	26	26	37^b	11	225	137	59	-	*	-
Y-K Delta South Coast	0	14	4	0	0	0	137	44	-	0	-
Y-K Delta Mid Coast	55	12	22	37	11	175	0	3	-	0	-
Y-K Delta North Coast	0	0	0	0	0	0	0	-	-	0	-
Lower Yukon	0	0	0	0	0	0	0	-	-	0	-
Lower Kuskokwim	0	0	0	0	0	45	0	0	-	0	-
Central Kuskokwim	0	-	0	0	-	-	0	-	-	-	-
Bethel	0	0	0	0 ^b	0	0	0	0	-	-	-
Bering Strait-Norton Sound	6	68	-	863	-	*	*	*	*	-	-
St. Lawrence-Diomedes Is.	‡	‡	-	‡	-	144	45	68	52	-	-
Bering Strait Mainland Villages	‡	‡	-	‡	-	-	14	-	-	-	-
Nome	‡	‡	-	‡	-	-	-	-	-	-	-
Northwest Arctic	-	-	*	-	-	-	-	-	*	-	-
Northwest Arctic Villages	-	-	0	-	-	-	-	-	-	-	-
Kotzebue	-	-	-	-	-	-	-	-	0	-	-
North Slope	-	43	-	99	9	392	-	-	-	-	-
North Slope Villages	-	‡	-	‡	‡	‡	-	-	-	-	-
Barrow	-	‡	-	‡	‡	‡	-	-	-	-	-
Interior Alaska	d	*	d	*	*	-	d	-	-	-	-
Mid Yukon-Upper Kuskokwim	d	d	d	-	-	-	d	-	-	-	-
Yukon-Koyukuk	d	d	d	d	d	-	d	-	-	-	-
Upper Yukon	d	-	d	d	-	-	d	-	-	-	d
Tanana Villages	d	-	d	-	-	-	d	-	-	-	-
Tok	-	-	d	-	-	-	d	-	-	-	-
Upper Copper River	d	-	-	d	-	-	-	-	-	-	-

Source: Survey results for 2004–2014 were reported in Naves (2010rev.; 2010; 2011; 2012; 2014; 2015a; 2015b) and Naves and Braem (2014).

–: Region/subregion not surveyed.

*: Less than 75% of region households represented in sample, region harvest estimates not produced.

‡: Harvest estimates released only at region level.

a: 2006 Fall-winter bird harvest data not available for Kodiak City and Road-connected subregion.

b: 2007 Bethel harvest estimate does not include fall bird harvest.

c: 2004 Chugach-Cook Inlet estimate does not include Cordova, where the subsistence bird hunt was first authorized in 2014.

d: Species does not occur in these subregions and regions.

Table 17.—Steller's eider, Alaska subsistence harvest estimates, 2004–2014.

Regions, subregions	Steller's eider harvest estimates (number of birds/year)										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gulf of Alaska-Cook Inlet	0^c	*	*	-	-	-	*	-	-	-	-
Gulf of Alaska Villages	0	-	0	-	-	-	0	-	-	-	-
Cordova	-	-	-	-	-	-	-	-	-	-	e
Cook Inlet	0	0	-	-	-	-	-	-	-	-	-
Kodiak Archipelago	-	-	*	-	-	-	0	-	-	-	-
Kodiak Villages	-	-	0	-	-	-	0	-	-	-	-
Kodiak City & Road-connected	-	-	a	-	-	-	0	-	-	-	-
Aleutian-Pribilof Islands	-	*	-	*	12	-	-	-	-	-	-
Aleutian-Pribilof Villages	-	0	-	0	12	-	-	-	-	-	-
Unalaska	-	-	-	-	0	-	-	-	-	-	-
Bristol Bay	*	17	*	10	37	-	-	0	-	-	-
South Alaska Peninsula	3	-	-	0	0	-	-	0	-	-	-
Southwest Bristol Bay	0	16	83	10	37	-	-	0	-	-	-
Dillingham	-	0	-	0	0	-	-	0	-	-	-
Yukon-Kuskokwim Delta	76	66	12	88^b	0	40	135	71	-	*	-
Y-K Delta South Coast	0	8	12	0	0	40	131	43	-	10	-
Y-K Delta Mid Coast	72	34	0	39	0	0	0	13	-	0	-
Y-K Delta North Coast	4	0	0	0	0	0	0	-	-	0	-
Lower Yukon	0	0	0	0	0	0	0	-	-	0	-
Lower Kuskokwim	0	22	0	50	0	0	0	0	-	0	-
Central Kuskokwim	0	-	0	0	-	-	0	-	-	-	-
Bethel	0	0	0	0 ^b	0	0	3	0	-	-	-
Bering Strait-Norton Sound	30	48	-	121	-	*	*	*	*	-	-
St. Lawrence-Diomedes Is.	‡	‡	-	‡	-	36	20	19	20	-	-
Bering Strait Mainland Villages	‡	‡	-	‡	-	-	21	-	-	-	-
Nome	‡	‡	-	‡	-	-	-	-	-	-	-
Northwest Arctic	-	-	*	-	-	-	-	-	*	-	-
Northwest Arctic Villages	-	-	0	-	-	-	-	-	-	-	-
Kotzebue	-	-	-	-	-	-	-	-	0	-	-
North Slope	-	14	-	36	0	0	-	-	-	-	-
North Slope Villages	-	‡	-	‡	‡	‡	-	-	-	-	-
Barrow	-	‡	-	‡	‡	‡	-	-	-	-	-
Interior Alaska	d	*	d	*	*	-	d	-	-	-	-
Mid Yukon-Upper Kuskokwim	d	d	d	-	-	-	d	-	-	-	-
Yukon-Koyukuk	d	d	d	d	d	-	d	-	-	-	-
Upper Yukon	d	-	d	d	-	-	d	-	-	-	d
Tanana Villages	d	-	d	-	-	-	d	-	-	-	-
Tok	-	-	d	-	-	-	d	-	-	-	-
Upper Copper River	d	-	-	d	-	-	-	-	-	-	-

Source: Survey results for 2004–2014 were reported in Naves (2010rev.; 2010; 2011; 2012; 2014; 2015a; 2015b) and Naves and Braem (2014).

–: Region/subregion not surveyed.

*: Less than 75% of region households represented in sample, region harvest estimates not produced.

‡: Harvest estimates released only at region level.

a: 2006 Fall-winter bird harvest data not available for Kodiak City and Road-connected subregion.

b: 2007 Bethel harvest estimate does not include fall bird harvest.

c: 2004 Chugach-Cook Inlet estimate does not include Cordova, where the subsistence bird hunt was first authorized in 2014.

d: Species does not occur in these subregions and regions.

e: Species not included in the Cordova survey.

Table 18.—Harlequin duck, Alaska subsistence harvest estimates, 2004–2014.

Regions, subregions	Harlequin duck harvet estimates (number of birds/year)										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gulf of Alaska-Cook Inlet	28^c	*	*	-	-	-	*	-	-	-	-
Gulf of Alaska Villages	28	-	19	-	-	-	0	-	-	-	-
Cordova	-	-	-	-	-	-	-	-	-	-	0
Cook Inlet	0	0	-	-	-	-	-	-	-	-	-
Kodiak Archipelago	-	-	*	-	-	-	114	-	-	-	-
Kodiak Villages	-	-	117	-	-	-	32	-	-	-	-
Kodiak City & Road-connected	-	-	a	-	-	-	82	-	-	-	-
Aleutian-Pribilof Islands	-	*	-	*	210	-	-	-	-	-	-
Aleutian-Pribilof Villages	-	776	-	2,234	129	-	-	-	-	-	-
Unalaska	-	-	-	-	81	-	-	-	-	-	-
Bristol Bay	*	239	*	320	149	-	-	87	-	-	-
South Alaska Peninsula	46	-	-	93	0	-	-	0	-	-	-
Southwest Bristol Bay	48	177	164	213	149	-	-	87	-	-	-
Dillingham	-	49	-	13	0	-	-	0	-	-	-
Yukon-Kuskokwim Delta	322	84	179	28^b	75	218	119	124	-	*	-
Y-K Delta South Coast	213	50	43	5	17	0	0	22	-	0	-
Y-K Delta Mid Coast	11	0	0	0	0	169	0	3	-	0	-
Y-K Delta North Coast	0	0	0	0	0	3	0	-	-	0	-
Lower Yukon	0	0	0	8	52	19	0	-	-	17	-
Lower Kuskokwim	78	6	136	15	5	19	113	74	-	0	-
Central Kuskokwim	0	-	0	0	-	-	0	-	-	-	-
Bethel	21	26	0	0 ^b	0	3	6	0	-	-	-
Bering Strait-Norton Sound	279	1,209	-	2,001	-	*	*	*	*	-	-
St. Lawrence-Diomedes Is.	‡	‡	-	‡	-	37	53	9	7	-	-
Bering Strait Mainland Villages	‡	‡	-	‡	-	-	0	-	-	-	-
Nome	‡	‡	-	‡	-	-	-	-	-	-	-
Northwest Arctic	-	-	*	-	-	-	-	-	*	-	-
Northwest Arctic Villages	-	-	0	-	-	-	-	-	-	-	-
Kotzebue	-	-	-	-	-	-	-	-	0	-	-
North Slope	-	0	-	0	0	0	-	-	-	-	-
North Slope Villages	-	‡	-	‡	‡	‡	-	-	-	-	-
Barrow	-	‡	-	‡	‡	‡	-	-	-	-	-
Interior Alaska	38	*	200	*	*	-	0	-	-	-	-
Mid Yukon-Upper Kuskokwim	19	7	0	-	-	-	0	-	-	-	-
Yukon-Koyukuk	6	0	0	0	0	-	0	-	-	-	-
Upper Yukon	5	-	0	0	-	-	0	-	-	-	0
Tanana Villages	0	-	78	-	-	-	0	-	-	-	-
Tok	-	-	122	-	-	-	0	-	-	-	-
Upper Copper River	0	-	-	0	-	-	-	-	-	-	-

Source: Survey results for 2004–2014 were reported in Naves (2010rev.; 2010; 2011; 2012; 2014; 2015a; 2015b) and Naves and Braem (2014).

–: Region/subregion not surveyed.

*: Less than 75% of region households represented in sample, region harvest estimates not produced.

‡: Harvest estimates released only at region level.

a: 2006 Fall-winter bird harvest data not available for Kodiak City and Road-connected subregion.

b: 2007 Bethel harvest estimate does not include fall bird harvest.

c: 2004 Chugach-Cook Inlet estimates does not include Cordova, where the subsistence bird hunt was first authorized in 2014.

Table 19.—Long-tailed duck, Alaska subsistence harvest estimates, 2004–2014.

Regions, subregions	Long-tailed duck harvest estimates (number of birds/year)										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gulf of Alaska-Cook Inlet	16^c	*	*	-	-	-	*	-	-	-	-
Gulf of Alaska Villages	16	-	0	-	-	-	0	-	-	-	-
Cordova	-	-	-	-	-	-	-	-	-	-	0
Cook Inlet	0	0	-	-	-	-	-	-	-	-	-
Kodiak Archipelago	-	-	*	-	-	-	27	-	-	-	-
Kodiak Villages	-	-	104	-	-	-	0	-	-	-	-
Kodiak City & Road-connected	-	-	a	-	-	-	27	-	-	-	-
Aleutian-Pribilof Islands	-	*	-	*	0	-	-	-	-	-	-
Aleutian-Pribilof Villages	-	39	-	0	0	-	-	-	-	-	-
Unalaska	-	-	-	-	0	-	-	-	-	-	-
Bristol Bay	*	61	*	163	20	-	-	21	-	-	-
South Alaska Peninsula	20	-	-	10	0	-	-	0	-	-	-
Southwest Bristol Bay	0	54	81	153	20	-	-	21	-	-	-
Dillingham	-	3	-	0	0	-	-	0	-	-	-
Yukon-Kuskokwim Delta	3,152	1,833	2,215	3,676^b	378	1,289	1,851	341	-	*	-
Y-K Delta South Coast	22	52	149	16	17	0	211	9	-	33	-
Y-K Delta Mid Coast	635	45	1,077	2,404	39	644	808	8	-	1,181	-
Y-K Delta North Coast	29	6	3	0	0	22	16	-	-	0	-
Lower Yukon	0	18	0	197	43	82	131	-	-	44	-
Lower Kuskokwim	2,468	295	969	1,052	270	513	684	247	-	1,784	-
Central Kuskokwim	0	-	0	0	-	-	0	-	-	-	-
Bethel	0	1,369	18	7 ^b	0	0	0	6	-	-	-
Bering Strait-Norton Sound	43	538	-	801	-	*	*	*	*	-	-
St. Lawrence-Diomedes Is.	‡	‡	-	‡	-	643	169	62	0	-	-
Bering Strait Mainland Villages	‡	‡	-	‡	-	-	0	-	-	-	-
Nome	‡	‡	-	‡	-	-	-	-	-	-	-
Northwest Arctic	-	-	*	-	-	-	-	-	*	-	-
Northwest Arctic Villages	-	-	238	-	-	-	-	-	-	-	-
Kotzebue	-	-	-	-	-	-	-	-	38	-	-
North Slope	-	10	-	271	112	57	-	-	-	-	-
North Slope Villages	-	‡	-	‡	‡	‡	-	-	-	-	-
Barrow	-	‡	-	‡	‡	‡	-	-	-	-	-
Interior Alaska	396	*	1,008	*	*	-	1,556	-	-	-	-
Mid Yukon-Upper Kuskokwim	8	0	0	-	-	-	0	-	-	-	-
Yukon-Koyukuk	109	0	80	266	667	-	126	-	-	-	-
Upper Yukon	102	-	543	428	-	-	318	-	-	-	124
Tanana Villages	100	-	202	-	-	-	1,113	-	-	-	-
Tok	-	-	182	-	-	-	0	-	-	-	-
Upper Copper River	0	-	-	0	-	-	-	-	-	-	-

Source: Survey results for 2004–2014 were reported in Naves (2010rev.; 2010; 2011; 2012; 2014; 2015a; 2015b) and Naves and Braem (2014).

–: Region/subregion not surveyed.

*: Less than 75% of region households represented in sample, region harvest estimates not produced.

‡: Harvest estimates released only at region level.

a: 2006 Fall-winter bird harvest data not available for Kodiak City and Road-connected subregion.

b: 2007 Bethel harvest estimate does not include fall bird harvest.

c: 2004 Chugach-Cook Inlet estimate does not include Cordova, where the subsistence bird hunt was first authorized in 2014.

Table 20.—Merganser, Alaska subsistence harvest estimates, 2010–2014.

Regions, subregions	Merganser harvest estimates (number of birds/year)										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gulf of Alaska-Cook Inlet	299^c	*	*	-	-	-	*	-	-	-	-
Gulf of Alaska Villages	299	-	55	-	-	-	209	-	-	-	-
Cordova	-	-	-	-	-	-	-	-	-	-	0
Cook Inlet	0	0	-	-	-	-	-	-	-	-	-
Kodiak Archipelago	-	-	*	-	-	-	95	-	-	-	-
Kodiak Villages	-	-	83	-	-	-	35	-	-	-	-
Kodiak City & Road-connected	-	-	a	-	-	-	61	-	-	-	-
Aleutian-Pribilof Islands	-	*	-	*	55	-	-	-	-	-	-
Aleutian-Pribilof Villages	-	244	-	64	17	-	-	-	-	-	-
Unalaska	-	-	-	-	38	-	-	-	-	-	-
Bristol Bay	*	239	*	436	28	-	-	329	-	-	-
South Alaska Peninsula	48	-	-	94	28	-	-	5	-	-	-
Southwest Bristol Bay	411	42	1,858	337	0	-	-	324	-	-	-
Dillingham	-	183	-	5	0	-	-	0	-	-	-
Yukon-Kuskokwim Delta	1,411	313	594	609^b	224	70	146	199	-	*	-
Y-K Delta South Coast	717	258	328	458	130	0	106	157	-	793	-
Y-K Delta Mid Coast	6	13	0	0	69	0	0	0	-	0	-
Y-K Delta North Coast	259	4	0	0	0	0	7	-	-	0	-
Lower Yukon	0	4	0	0	20	0	0	-	-	0	-
Lower Kuskokwim	409	26	263	151	0	68	34	0	-	104	-
Central Kuskokwim	0	-	0	0	-	-	0	-	-	-	-
Bethel	21	0	3	0 ^b	0	0	0	0	-	-	-
Bering Strait-Norton Sound	152	5	-	129	-	*	*	*	*	-	-
St. Lawrence-Diomedes Is.	‡	‡	-	‡	-	17	2	3	0	-	-
Bering Strait Mainland Villages	‡	‡	-	‡	-	-	0	-	-	-	-
Nome	‡	‡	-	‡	-	-	-	-	-	-	-
Northwest Arctic	-	-	*	-	-	-	-	-	*	-	-
Northwest Arctic Villages	-	-	0	-	-	-	-	-	-	-	-
Kotzebue	-	-	-	-	-	-	-	-	4	-	-
North Slope	-	0	-	0	0	0	-	-	-	-	-
North Slope Villages	-	‡	-	‡	‡	‡	-	-	-	-	-
Barrow	-	‡	-	‡	‡	‡	-	-	-	-	-
Interior Alaska	180	*	212	*	*	-	5	-	-	-	-
Mid Yukon-Upper Kuskokwim	0	0	0	-	-	-	0	-	-	-	-
Yukon-Koyukuk	0	0	0	0	0	-	0	-	-	-	-
Upper Yukon	5	-	71	37	-	-	5	-	-	-	0
Tanana Villages	139	-	101	-	-	-	0	-	-	-	-
Tok	-	-	39	-	-	-	0	-	-	-	-
Upper Copper River	0	-	-	0	-	-	-	-	-	-	-

Note Estimates for common and red-breasted merganser were combined for 2004–2009.

Source Survey results for 2004–2014 were reported in Naves (2010rev.; 2010; 2011; 2012; 2014; 2015a; 2015b) and Naves and Braem (2014).

–: Region/subregion not surveyed.

*: Less than 75% of region households represented in sample, region harvest estimates not produced.

‡: Harvest estimates released only at region level.

a: 2006 Fall-winter bird harvest data not available for Kodiak City and Road-connected subregion.

b: 2007 Bethel harvest estimate does not include fall bird harvest.

c: 2004 Chugach-Cook Inlet estimate does not include Cordova, where the subsistence bird hunt was first authorized in 2014.

Table 21.—Duck (unidentified), Alaska subsistence harvest estimates, 2004–2014.

Regions, subregions	Duck (unidentified) harvest estimates (number of birds/year)										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gulf of Alaska-Cook Inlet	0^c	*	*	-	-	-	*	-	-	-	-
Gulf of Alaska Villages	0	-	0	-	-	-	0	-	-	-	-
Cordova	-	-	-	-	-	-	-	-	-	-	0
Cook Inlet	0	0	-	-	-	-	-	-	-	-	-
Kodiak Archipelago	-	-	*	-	-	-	0	-	-	-	-
Kodiak Villages	-	-	0	-	-	-	0	-	-	-	-
Kodiak City & Road-connected	-	-	a	-	-	-	0	-	-	-	-
Aleutian-Pribilof Islands	-	*	-	*	86	-	-	-	-	-	-
Aleutian-Pribilof Villages	-	39	-	0	0	-	-	-	-	-	-
Unalaska	-	-	-	-	86	-	-	-	-	-	-
Bristol Bay	*	298	*	478	0	-	-	36	-	-	-
South Alaska Peninsula	19	-	-	0	0	-	-	0	-	-	-
Southwest Bristol Bay	16	204	0	392	0	-	-	16	-	-	-
Dillingham	-	76	-	86	0	-	-	20	-	-	-
Yukon-Kuskokwim Delta	250	98	165	29^b	0	0	250	122	-	*	-
Y-K Delta South Coast	0	0	6	0	0	0	0	0	-	0	-
Y-K Delta Mid Coast	151	0	25	0	0	0	50	82	-	30	-
Y-K Delta North Coast	72	0	0	0	0	0	83	-	-	322	-
Lower Yukon	0	11	0	29	0	0	17	-	-	9	-
Lower Kuskokwim	0	85	134	0	0	0	59	0	-	0	-
Central Kuskokwim	28	-	0	0	-	-	0	-	-	-	-
Bethel	0	0	0	0 ^b	0	0	42	14	-	-	-
Bering Strait-Norton Sound	0	34	-	182	-	*	*	*	*	-	-
St. Lawrence-Diomedes Is.	‡	‡	-	‡	-	9	6	7	0	-	-
Bering Strait Mainland Villages	‡	‡	-	‡	-	-	17	-	-	-	-
Nome	‡	‡	-	‡	-	-	-	-	-	-	-
Northwest Arctic	-	-	*	-	-	-	-	-	*	-	-
Northwest Arctic Villages	-	-	12	-	-	-	-	-	-	-	-
Kotzebue	-	-	-	-	-	-	-	-	154	-	-
North Slope	-	1	-	0	2	0	-	-	-	-	-
North Slope Villages	-	‡	-	‡	‡	‡	-	-	-	-	-
Barrow	-	‡	-	‡	‡	‡	-	-	-	-	-
Interior Alaska	275	*	41	*	*	-	113	-	-	-	-
Mid Yukon-Upper Kuskokwim	0	0	12	-	-	-	0	-	-	-	-
Yukon-Koyukuk	18	0	0	11	0	-	0	-	-	-	-
Upper Yukon	0	-	0	163	-	-	87	-	-	-	10
Tanana Villages	203	-	29	-	-	-	0	-	-	-	-
Tok	-	-	0	-	-	-	27	-	-	-	-
Upper Copper River	5	-	-	10	-	-	-	-	-	-	-

Source Survey results for 2004–2014 were reported in Naves (2010rev.; 2010; 2011; 2012; 2014; 2015a; 2015b) and Naves and Braem (2014).

–: Region/subregion not surveyed.

*: Less than 75% of region households represented in sample, region harvest estimates not produced.

‡: Harvest estimates released only at region level.

a: 2006 Fall-winter bird harvest data not available for Kodiak City and Road-connected subregion.

b: 2007 Bethel harvest estimate does not include fall bird harvest.

c: 2004 Chugach-Cook Inlet estimate does not include Cordova, where the subsistence bird hunt was first authorized in 2014.

Table 22.–Black brant, Alaska subsistence harvest estimates, 2004–2014.

Regions, subregions	Black brant harvest estimates (number of birds/year)										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gulf of Alaska-Cook Inlet	0 ^c	*	*	-	-	-	*	-	-	-	-
Gulf of Alaska Villages	0	-	0	-	-	-	0	-	-	-	-
Cordova	-	-	-	-	-	-	-	-	-	-	e
Cook Inlet	0	0	-	-	-	-	-	-	-	-	-
Kodiak Archipelago	-	-	*	-	-	-	0	-	-	-	-
Kodiak Villages	-	-	0	-	-	-	0	-	-	-	-
Kodiak City & Road-connected	-	-	a	-	-	-	0	-	-	-	-
Aleutian-Pribilof Islands	-	*	-	*	555	-	-	-	-	-	-
Aleutian-Pribilof Villages	-	1,450	-	0	523	-	-	-	-	-	-
Unalaska	-	-	-	-	32	-	-	-	-	-	-
Bristol Bay	*	945	*	724	219	-	-	1,005	-	-	-
South Alaska Peninsula	15	-	-	18	0	-	-	0	-	-	-
Southwest Bristol Bay	653	889	2,859	707	219	-	-	1,005	-	-	-
Dillingham	-	0	-	0	0	-	-	0	-	-	-
Yukon-Kuskokwim Delta	3,968	4,383	8,433	5,278 ^b	3,980	14,542	6,279	5,112	-	*	-
Y-K Delta South Coast	605	1,861	2,181	939	902	5,984	1,252	3,099	-	1,348	-
Y-K Delta Mid Coast	3,107	2,124	5,757	3,707	2,882	7,714	3,366	902	-	5,668	-
Y-K Delta North Coast	148	163	143	7	0	398	566	-	-	412	-
Lower Yukon	0	18	0	0	0	0	13	-	-	0	-
Lower Kuskokwim	108	76	232	625	22	91	1,051	19	-	227	-
Central Kuskokwim	0	-	0	0	-	-	0	-	-	-	-
Bethel	0	30	121	0 ^b	87	36	32	6	-	-	-
Bering Strait-Norton Sound	3,194	3,876	-	5,867	-	*	*	*	*	-	-
St. Lawrence-Diomedes Is.	‡	‡	-	‡	-	660	26	111	86	-	-
Bering Strait Mainland Villages	‡	‡	-	‡	-	-	1,029	-	-	-	-
Nome	‡	‡	-	‡	-	-	-	-	-	-	-
Northwest Arctic	-	-	*	-	-	-	-	-	*	-	-
Northwest Arctic Villages	-	-	0	-	-	-	-	-	-	-	-
Kotzebue	-	-	-	-	-	-	-	-	596	-	-
North Slope	-	1,233	-	2,704	3,851	2,011	-	-	-	-	-
North Slope Villages	-	‡	-	‡	‡	‡	-	-	-	-	-
Barrow	-	‡	-	‡	‡	‡	-	-	-	-	-
Interior Alaska	307	*	114	*	*	-	d	-	-	-	-
Mid Yukon-Upper Kuskokwim	22	17	0	-	-	-	d	-	-	-	-
Yukon-Koyukuk	106	0	0	0	0	-	d	-	-	-	-
Upper Yukon	0	-	9	0	-	-	d	-	-	-	d
Tanana Villages	119	-	105	-	-	-	d	-	-	-	-
Tok	-	-	0	-	-	-	d	-	-	-	-
Upper Copper River	11	-	-	0	-	-	-	-	-	-	-

Note In 2004–2009, brant was included in the survey form used in the Interior Alaska and Upper Copper River although brant is unlikely to occur in these regions. Harvest reports of brant in these regions likely refer to species identification issues.

Source Survey results for 2004–2014 were reported in Naves (2010rev.; 2010; 2011; 2012; 2014; 2015a; 2015b) and Naves and Braem (2014).

–: Region/subregion not surveyed.

*: Less than 75% of region households represented in sample, region harvest estimates not produced.

‡: Harvest estimates released only at region level.

a: 2006 Fall-winter bird harvest data not available for Kodiak City and Road-connected subregion.

b: 2007 Bethel harvest estimate does not include fall bird harvest.

c: 2004 Chugach-Cook Inlet estimate does not include Cordova, where the subsistence bird hunt was first authorized in 2014.

d: Species does not occur in these subregions and regions.

e: Species not included in the Cordova survey.

Table 23.—Canada/cackling goose, Alaska subsistence harvest estimates, 2010–2014.

Regions, subregions	Canada/cackling goose harvest estimates (number of birds/year)										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gulf of Alaska-Cook Inlet	68^c	*	*	-	-	-	*	-	-	-	-
Gulf of Alaska Villages	30	-	0	-	-	-	21	-	-	-	-
Cordova	-	-	-	-	-	-	-	-	-	-	d
Cook Inlet	38	5	-	-	-	-	-	-	-	-	-
Kodiak Archipelago	-	-	*	-	-	-	19	-	-	-	-
Kodiak Villages	-	-	41	-	-	-	0	-	-	-	-
Kodiak City & Road-connected	-	-	a	-	-	-	19	-	-	-	-
Aleutian-Pribilof Islands	-	*	-	*	996	-	-	-	-	-	-
Aleutian-Pribilof Villages	-	4,208	-	0	996	-	-	-	-	-	-
Unalaska	-	-	-	-	0	-	-	-	-	-	-
Bristol Bay	*	3,472	*	2,584	6,085	-	-	2,903	-	-	-
South Alaska Peninsula	0	-	-	0	0	-	-	0	-	-	-
Southwest Bristol Bay	910	2,821	2,469	1,835	5,719	-	-	2,265	-	-	-
Dillingham	-	447	-	749	366	-	-	638	-	-	-
Yukon-Kuskokwim Delta	19,813	23,756	26,143	27,634^b	17,716	39,856	15,269	17,192	-	*	-
Y-K Delta South Coast	4,752	8,871	7,251	10,241	4,323	6,156	1,851	6,109	-	5,039	-
Y-K Delta Mid Coast	7,895	4,636	7,877	5,958	4,027	17,747	3,889	2,393	-	8,105	-
Y-K Delta North Coast	1,710	2,707	1,367	695	1,486	4,504	957	-	-	922	-
Lower Yukon	739	1,182	1,649	1,064	947	2,095	794	-	-	2,029	-
Lower Kuskokwim	4,227	2,621	6,062	8,482	5,180	7,007	7,270	4,660	-	7,900	-
Central Kuskokwim	14	-	116	0	-	-	12	-	-	-	-
Bethel	477	3,131	1,821	1,195 ^b	1,366	1,473	497	377	-	-	-
Bering Strait-Norton Sound	3,529	5,336	-	7,093	-	*	*	*	*	-	-
St. Lawrence-Diomedes Is.	‡	‡	-	‡	-	64	5	83	7	-	-
Bering Strait Mainland Villages	‡	‡	-	‡	-	-	4,578	-	-	-	-
Nome	‡	‡	-	‡	-	-	-	-	-	-	-
Northwest Arctic	-	-	*	-	-	-	-	-	*	-	-
Northwest Arctic Villages	-	-	2,314	-	-	-	-	-	-	-	-
Kotzebue	-	-	-	-	-	-	-	-	596	-	-
North Slope	-	435	-	573	989	750	-	-	-	-	-
North Slope Villages	-	‡	-	‡	‡	‡	-	-	-	-	-
Barrow	-	‡	-	‡	‡	‡	-	-	-	-	-
Interior Alaska	5,184	*	3,891	*	*	-	3,421	-	-	-	-
Mid Yukon-Upper Kuskokwim	503	541	166	-	-	-	184	-	-	-	-
Yukon-Koyukuk	737	337	615	387	906	-	1,061	-	-	-	-
Upper Yukon	1,466	-	1,303	693	-	-	1,045	-	-	-	916
Tanana Villages	1,463	-	1,700	-	-	-	1,131	-	-	-	-
Tok	-	-	106	-	-	-	0	-	-	-	-
Upper Copper River	9	-	-	13	-	-	-	-	-	-	-

Note In 2004–2009, Canada/cackling goose were listed in surveys as lesser and cackling Canada goose. In 2010–present, the category Canada/cackling goose has been used. Estimates for these species were combined for 2004–2009.

Source Survey results for 2004–2014 were reported in Naves (2010rev.; 2010; 2011; 2012; 2014; 2015a; 2015b) and Naves and Braem (2014).

–: Region/subregion not surveyed.

*: Less than 75% of region households represented in sample, region harvest estimates not produced.

‡: Harvest estimates released only at region level.

a: 2006 Fall-winter bird harvest data not available for Kodiak City and Road-connected subregion.

b: 2007 Bethel harvest estimate does not include fall bird harvest.

c: 2004 Chugach-Cook Inlet estimate does not include Cordova, where the subsistence bird hunt was first authorized in 2014.

d: Species category not included in the Cordova survey.

Table 24.—Greater white-fronted goose, Alaska subsistence harvest estimates, 2004–2014.

Regions, subregions	Greater white-fronted goose harvest estimates (number of birds/year)										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gulf of Alaska-Cook Inlet	0^c	*	*	-	-	-	*	-	-	-	-
Gulf of Alaska Villages	0	-	0	-	-	-	0	-	-	-	-
Cordova	-	-	-	-	-	-	-	-	-	-	5
Cook Inlet	0	0	-	-	-	-	-	-	-	-	-
Kodiak Archipelago	-	-	*	-	-	-	0	-	-	-	-
Kodiak Villages	-	-	0	-	-	-	0	-	-	-	-
Kodiak City & Road-connected	-	-	a	-	-	-	0	-	-	-	-
Aleutian-Pribilof Islands	-	*	-	*	0	-	-	-	-	-	-
Aleutian-Pribilof Villages	-	13	-	0	0	-	-	-	-	-	-
Unalaska	-	-	-	-	0	-	-	-	-	-	-
Bristol Bay	*	1,287	*	1,138	2,237	-	-	1,735	-	-	-
South Alaska Peninsula	0	-	-	0	0	-	-	0	-	-	-
Southwest Bristol Bay	649	1,165	1,621	1,104	2,123	-	-	1,313	-	-	-
Dillingham	-	46	-	34	114	-	-	422	-	-	-
Yukon-Kuskokwim Delta	16,117	18,528	29,956	24,472^b	15,118	33,660	19,255	18,955	-	*	-
Y-K Delta South Coast	4,187	7,664	6,859	6,104	4,871	6,703	2,849	8,751	-	5,925	-
Y-K Delta Mid Coast	6,082	2,812	12,016	8,674	3,209	15,597	4,820	1,986	-	7,602	-
Y-K Delta North Coast	285	1,322	679	39	943	1,384	436	-	-	872	-
Lower Yukon	1,486	1,350	1,747	1,360	1,170	1,413	1,834	-	-	3,751	-
Lower Kuskokwim	1,857	2,272	4,697	5,858	2,154	5,845	8,253	3,419	-	5,879	-
Central Kuskokwim	0	-	0	0	-	-	0	-	-	-	-
Bethel	2,219	2,633	3,958	2,436 ^b	2,439	1,922	1,064	771	-	-	-
Bering Strait-Norton Sound	400	957	-	897	-	*	*	*	*	-	-
St. Lawrence-Diomedes Is.	‡	‡	-	‡	-	36	2	9	8	-	-
Bering Strait Mainland Villages	‡	‡	-	‡	-	-	764	-	-	-	-
Nome	‡	‡	-	‡	-	-	-	-	-	-	-
Northwest Arctic	-	-	*	-	-	-	-	-	*	-	-
Northwest Arctic Villages	-	-	1,186	-	-	-	-	-	-	-	-
Kotzebue	-	-	-	-	-	-	-	-	287	-	-
North Slope	-	6,161	-	18,355	20,187	7,825	-	-	-	-	-
North Slope Villages	-	‡	-	‡	‡	‡	-	-	-	-	-
Barrow	-	‡	-	‡	‡	‡	-	-	-	-	-
Interior Alaska	6,142	*	3,893	*	*	-	4,471	-	-	-	-
Mid Yukon-Upper Kuskokwim	450	95	51	-	-	-	73	-	-	-	-
Yukon-Koyukuk	370	224	256	409	881	-	910	-	-	-	-
Upper Yukon	3,362	-	2,551	8,491	-	-	2,571	-	-	-	2,387
Tanana Villages	757	-	1,035	-	-	-	917	-	-	-	-
Tok	-	-	0	-	-	-	0	-	-	-	-
Upper Copper River	0	-	-	0	-	-	-	-	-	-	-

Source: Survey results for 2004–2014 were reported in Naves (2010rev.; 2010; 2011; 2012; 2014; 2015a; 2015b) and Naves and Braem (2014).

–: Region/subregion not surveyed.

*: Less than 75% of region households represented in sample, region harvest estimates not produced.

‡: Harvest estimates released only at region level.

a: 2006 Fall-winter bird harvest data not available for Kodiak City and Road-connected subregion.

b: 2007 Bethel harvest estimate does not include fall bird harvest.

c: 2004 Chugach-Cook Inlet estimate does not include Cordova, where the subsistence bird hunt was first authorized in 2014.

Table 25.—Emperor goose, Alaska subsistence harvest estimates, 2004–2014.

Regions, subregions	Emperor goose harvest estimates (number of birds/year)										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gulf of Alaska-Cook Inlet	0^c	*	*	-	-	-	*	-	-	-	-
Gulf of Alaska Villages	0	-	0	-	-	-	0	-	-	-	-
Cordova	-	-	-	-	-	-	-	-	-	-	e
Cook Inlet	0	0	-	-	-	-	-	-	-	-	-
Kodiak Archipelago	-	-	*	-	-	-	0	-	-	-	-
Kodiak Villages	-	-	17	-	-	-	0	-	-	-	-
Kodiak City & Road-connected	-	-	a	-	-	-	0	-	-	-	-
Aleutian-Pribilof Islands	-	*	-	*	109	-	-	-	-	-	-
Aleutian-Pribilof Villages	-	213	-	223	45	-	-	-	-	-	-
Unalaska	-	-	-	-	65	-	-	-	-	-	-
Bristol Bay	*	47	*	26	0	-	-	110	-	-	-
South Alaska Peninsula	39	-	-	6	0	-	-	0	-	-	-
Southwest Bristol Bay	76	38	27	15	0	-	-	38	-	-	-
Dillingham	-	6	-	5	0	-	-	72	-	-	-
Yukon-Kuskokwim Delta	1,151	815	2,425	1,608^b	1,490	2,559	2,094	952	-	*	-
Y-K Delta South Coast	33	185	415	503	26	1,047	301	335	-	196	-
Y-K Delta Mid Coast	1,010	568	1,938	893	1,396	1,407	1,337	415	-	1,743	-
Y-K Delta North Coast	91	30	43	0	0	38	351	-	-	65	-
Lower Yukon	0	0	0	0	29	0	4	-	-	5	-
Lower Kuskokwim	18	6	29	212	6	0	101	0	-	0	-
Central Kuskokwim	0	-	0	0	-	-	0	-	-	-	-
Bethel	0	6	0	0 ^b	0	10	0	0	-	-	-
Bering Strait-Norton Sound	1,860	1,487	-	1,250	-	*	*	*	*	-	-
St. Lawrence-Diomedes Is.	‡	‡	-	‡	-	1,286	75	118	216	-	-
Bering Strait Mainland Villages	‡	‡	-	‡	-	-	97	-	-	-	-
Nome	‡	‡	-	‡	-	-	-	-	-	-	-
Northwest Arctic	-	-	*	-	-	-	-	-	*	-	-
Northwest Arctic Villages	-	-	0	-	-	-	-	-	-	-	-
Kotzebue	-	-	-	-	-	-	-	-	0	-	-
North Slope	-	0	-	5	0	0	-	-	-	-	-
North Slope Villages	-	‡	-	‡	‡	‡	-	-	-	-	-
Barrow	-	‡	-	‡	‡	‡	-	-	-	-	-
Interior Alaska	d	*	33^f	*	*	-	d	-	-	-	-
Mid Yukon-Upper Kuskokwim	d	d	33 ^f	-	-	-	d	-	-	-	-
Yukon-Koyukuk	d	d	d	d	d	-	d	-	-	-	-
Upper Yukon	d	-	d	d	-	-	d	-	-	-	d
Tanana Villages	d	-	d	-	-	-	d	-	-	-	-
Tok	-	-	d	-	-	-	d	-	-	-	-
Upper Copper River	d	-	-	d	-	-	-	-	-	-	-

Source: Survey results for 2004–2014 were reported in Naves (2010rev.; 2010; 2011; 2012; 2014; 2015a; 2015b) and Naves and Braem (2014).

-: Region/subregion not surveyed.

*: Less than 75% of region households represented in sample, region harvest estimates not produced.

‡: Harvest estimates released only at region level.

a: 2006 Fall-winter bird harvest data not available for Kodiak City and Road-connected subregion.

b: 2007 Bethel harvest estimate does not include fall bird harvest.

c: 2004 Chugach-Cook Inlet estimate does not include Cordova, where the subsistence bird hunt was first authorized in 2014.

d: Species does not occur in these subregions and regions.

e: Species not included in the Cordova survey.

f: 2006 Harvest report of emperor goose in the Mid Yukon-Upper Kuskokwim subregion likely relates to species identification issues.

Table 26.—Lesser snow goose, Alaska subsistence harvest estimates, 2004–2014.

Regions, subregions	Snow goose harvest estimates (number of birds/year)										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gulf of Alaska-Cook Inlet	0^c	*	*	-	-	-	*	-	-	-	-
Gulf of Alaska Villages	0	-	0	-	-	-	0	-	-	-	-
Cordova	-	-	-	-	-	-	-	-	-	-	5
Cook Inlet	0	0	-	-	-	-	-	-	-	-	-
Kodiak Archipelago	-	-	*	-	-	-	0	-	-	-	-
Kodiak Villages	-	-	0	-	-	-	0	-	-	-	-
Kodiak City & Road-connected	-	-	a	-	-	-	0	-	-	-	-
Aleutian-Pribilof Islands	-	*	-	*	0	-	-	-	-	-	-
Aleutian-Pribilof Villages	-	0	-	0	0	-	-	-	-	-	-
Unalaska	-	-	-	-	0	-	-	-	-	-	-
Bristol Bay	*	8	*	0	0	-	-	0	-	-	-
South Alaska Peninsula	0	-	-	0	0	-	-	0	-	-	-
Southwest Bristol Bay	0	7	0	0	0	-	-	0	-	-	-
Dillingham	-	0	-	0	0	-	-	0	-	-	-
Yukon-Kuskokwim Delta	1,343	1,758	2,072	151^b	282	2,281	455	212	-	*	-
Y-K Delta South Coast	34	10	78	18	8	0	35	26	-	190	-
Y-K Delta Mid Coast	0	0	142	0	5	1,207	116	97	-	1,073	-
Y-K Delta North Coast	1,185	1,625	15	30	7	520	126	-	-	193	-
Lower Yukon	124	75	1,735	85	219	504	79	-	-	875	-
Lower Kuskokwim	0	0	96	13	23	0	95	0	-	623	-
Central Kuskokwim	0	-	0	0	-	-	0	-	-	-	-
Bethel	0	4	7	6 ^b	15	0	3	44	-	-	-
Bering Strait-Norton Sound	3,207	6,049	-	9,758	-	*	*	*	*	-	-
St. Lawrence-Diomedes Is.	‡	‡	-	‡	-	2,226	38	225	32	-	-
Bering Strait Mainland Villages	‡	‡	-	‡	-	-	5,801	-	-	-	-
Nome	‡	‡	-	‡	-	-	-	-	-	-	-
Northwest Arctic	-	-	*	-	-	-	-	-	*	-	-
Northwest Arctic Villages	-	-	311	-	-	-	-	-	-	-	-
Kotzebue	-	-	-	-	-	-	-	-	132	-	-
North Slope	-	336	-	429	688	356	-	-	-	-	-
North Slope Villages	-	‡	-	‡	‡	‡	-	-	-	-	-
Barrow	-	‡	-	‡	‡	‡	-	-	-	-	-
Interior Alaska	1,024	*	226	*	*	-	63	-	-	-	-
Mid Yukon-Upper Kuskokwim	0	0	0	-	-	-	0	-	-	-	-
Yukon-Koyukuk	0	0	0	0	24	-	11	-	-	-	-
Upper Yukon	744	-	213	403	-	-	44	-	-	-	223
Tanana Villages	80	-	7	-	-	-	9	-	-	-	-
Tok	-	-	6	-	-	-	0	-	-	-	-
Upper Copper River	0	-	-	0	-	-	-	-	-	-	-

Source Survey results for 2004–2014 were reported in Naves (2010rev.; 2010; 2011; 2012; 2014; 2015a; 2015b) and Naves and Braem (2014).

–: Region/subregion not surveyed.

*: Less than 75% of region households represented in sample, region harvest estimates not produced.

‡: Harvest estimates released only at region level.

a: 2006 Fall-winter bird harvest data not available for Kodiak City and Road-connected subregion.

b: 2007 Bethel harvest estimate does not include fall bird harvest.

c: 2004 Chugach-Cook Inlet estimate does not include Cordova, where the subsistence bird hunt was first authorized in 2014.

Table 27.—Swan, Alaska subsistence harvest estimates, 2004–2014.

Regions, subregions	Swan harvest estimates (number of birds/year)										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gulf of Alaska-Cook Inlet	2 ^c	*	*	-	-	-	*	-	-	-	-
Gulf of Alaska Villages	0	-	0	-	-	-	4	-	-	-	-
Cordova	-	-	-	-	-	-	-	-	-	-	d
Cook Inlet	2	0	-	-	-	-	-	-	-	-	-
Kodiak Archipelago	-	-	*	-	-	-	0	-	-	-	-
Kodiak Villages	-	-	0	-	-	-	0	-	-	-	-
Kodiak City & Road-connected	-	-	a	-	-	-	0	-	-	-	-
Aleutian-Pribilof Islands	-	*	-	*	0	-	-	-	-	-	-
Aleutian-Pribilof Villages	-	7	-	0	0	-	-	-	-	-	-
Unalaska	-	-	-	-	0	-	-	-	-	-	-
Bristol Bay	*	536	*	272	92	-	-	210	-	-	-
South Alaska Peninsula	0	-	-	0	0	-	-	0	-	-	-
Southwest Bristol Bay	314	462	230	270	88	-	-	201	-	-	-
Dillingham	-	43	-	2	4	-	-	9	-	-	-
Yukon-Kuskokwim Delta	6,866	4,554	6,099	3,364 ^b	3,851	5,065	4,511	3,139	-	*	-
Y-K Delta South Coast	2,689	1,272	980	711	919	263	303	551	-	925	-
Y-K Delta Mid Coast	780	249	1,442	90	783	1,730	559	264	-	814	-
Y-K Delta North Coast	486	737	353	22	215	939	640	-	-	333	-
Lower Yukon	536	1,151	1,525	498	272	647	630	-	-	822	-
Lower Kuskokwim	1,172	713	1,388	1,747	1,474	1,323	2,337	1,632	-	769	-
Central Kuskokwim	0	-	0	0	-	-	0	-	-	-	-
Bethel	1,203	316	412	295 ^b	105	52	42	25	-	-	-
Bering Strait-Norton Sound	676	891	-	1,334	-	*	*	*	*	-	-
St. Lawrence-Diomedes Is.	‡	‡	-	‡	-	254	0	19	7	-	-
Bering Strait Mainland Villages	‡	‡	-	‡	-	-	301	-	-	-	-
Nome	‡	‡	-	‡	-	-	-	-	-	-	-
Northwest Arctic	-	-	*	-	-	-	-	-	*	-	-
Northwest Arctic Villages	-	-	12	-	-	-	-	-	-	-	-
Kotzebue	-	-	-	-	-	-	-	-	30	-	-
North Slope	-	18	-	73	47	9	-	-	-	-	-
North Slope Villages	-	‡	-	‡	‡	‡	-	-	-	-	-
Barrow	-	‡	-	‡	‡	‡	-	-	-	-	-
Interior Alaska	170	*	76	*	*	-	0	-	-	-	-
Mid Yukon-Upper Kuskokwim	4	17	0	-	-	-	0	-	-	-	-
Yukon-Koyukuk	6	4	0	0	0	-	0	-	-	-	-
Upper Yukon	0	-	10	0	-	-	0	-	-	-	11
Tanana Villages	126	-	60	-	-	-	0	-	-	-	-
Tok	-	-	6	-	-	-	0	-	-	-	-
Upper Copper River	4	-	-	3	-	-	-	-	-	-	-

Source: Survey results for 2004–2014 were reported in Naves (2010rev.; 2010; 2011; 2012; 2014; 2015a; 2015b) and Naves and Braem (2014).

–: Region/subregion not surveyed.

*: Less than 75% of region households represented in sample, region harvest estimates not produced.

‡: Harvest estimates released only at region level.

a: 2006 Fall-winter bird harvest data not available for Kodiak City and Road-connected subregion.

b: 2007 Bethel harvest estimate does not include fall bird harvest.

c: 2004 Chugach-Cook Inlet estimate does not include Cordova, where the subsistence bird hunt was first authorized in 2014.

d: Species category not included in the Cordova survey.

Table 28.—Sandhill crane, Alaska subsistence harvest estimates, 2004–2014.

Regions, subregions	Sandhill crane harvest estimates (number of birds/year)										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gulf of Alaska-Cook Inlet	5 ^c	*	*	-	-	-	*	-	-	-	-
Gulf of Alaska Villages	0	-	0	-	-	-	0	-	-	-	-
Cordova	-	-	-	-	-	-	-	-	-	-	0
Cook Inlet	5	0	-	-	-	-	-	-	-	-	-
Kodiak Archipelago	-	-	*	-	-	-	0	-	-	-	-
Kodiak Villages	-	-	0	-	-	-	0	-	-	-	-
Kodiak City & Road-connected	-	-	a	-	-	-	0	-	-	-	-
Aleutian-Pribilof Islands	-	*	-	*	0	-	-	-	-	-	-
Aleutian-Pribilof Villages	-	59	-	0	0	-	-	-	-	-	-
Unalaska	-	-	-	-	0	-	-	-	-	-	-
Bristol Bay	*	794	*	292	325	-	-	208	-	-	-
South Alaska Peninsula	0	-	-	0	0	-	-	0	-	-	-
Southwest Bristol Bay	136	728	301	249	306	-	-	208	-	-	-
Dillingham	-	18	-	43	19	-	-	0	-	-	-
Yukon-Kuskokwim Delta	3,166	2,637	4,501	2,499^b	2,199	5,620	2,879	2,654	-	*	-
Y-K Delta South Coast	1,129	1,473	1,653	832	558	1,345	640	1,058	-	189	-
Y-K Delta Mid Coast	418	357	1,772	321	1,170	2,714	1,243	858	-	1,684	-
Y-K Delta North Coast	417	370	210	0	123	500	551	-	-	242	-
Lower Yukon	84	28	55	77	29	21	31	-	-	145	-
Lower Kuskokwim	577	192	616	1,048	205	838	353	162	-	923	-
Central Kuskokwim	0	-	15	0	-	-	0	-	-	-	-
Bethel	539	149	180	220 ^b	67	78	61	11	-	-	-
Bering Strait-Norton Sound	686	1,214	-	2,674	-	*	*	*	*	-	-
St. Lawrence-Diomedes Is.	‡	‡	-	‡	-	121	11	12	11	-	-
Bering Strait Mainland Villages	‡	‡	-	‡	-	-	1,595	-	-	-	-
Nome	‡	‡	-	‡	-	-	-	-	-	-	-
Northwest Arctic	-	-	*	-	-	-	-	-	*	-	-
Northwest Arctic Villages	-	-	0	-	-	-	-	-	-	-	-
Kotzebue	-	-	-	-	-	-	-	-	38	-	-
North Slope	-	13	-	5	35	4	-	-	-	-	-
North Slope Villages	-	‡	-	‡	‡	‡	-	-	-	-	-
Barrow	-	‡	-	‡	‡	‡	-	-	-	-	-
Interior Alaska	297	*	213	*	*	-	69	-	-	-	-
Mid Yukon-Upper Kuskokwim	44	2	0	-	-	-	0	-	-	-	-
Yukon-Koyukuk	26	0	94	0	83	-	33	-	-	-	-
Upper Yukon	0	-	9	3	-	-	36	-	-	-	10
Tanana Villages	168	-	110	-	-	-	0	-	-	-	-
Tok	-	-	0	-	-	-	0	-	-	-	-
Upper Copper River	0	-	-	0	-	-	-	-	-	-	-

Source: Survey results for 2004–2014 were reported in Naves (2010rev.; 2010; 2011; 2012; 2014; 2015a; 2015b) and Naves and Braem (2014).

–: Region/subregion not surveyed.

*: Less than 75% of region households represented in sample, region harvest estimates not produced.

‡: Harvest estimates released only at region level.

a: 2006 Fall-winter bird harvest data not available for Kodiak City and Road-connected subregion.

b: 2007 Bethel harvest estimate does not include fall bird harvest.

c: 2004 Chugach-Cook Inlet estimate does not include Cordova, where the subsistence bird hunt was first authorized in 2014.

Table 29.—Short-tailed shearwater, Alaska subsistence harvest estimates, 2004–2014.

Regions, subregions	Short-tailed shearwater estimated harvest (number of birds/year)										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gulf of Alaska-Cook Inlet				-	-	-		-	-	-	-
Gulf of Alaska Villages		-		-	-	-		-	-	-	-
Cordova	-	-	-	-	-	-	-	-	-	-	
Cook Inlet			-	-	-	-		-	-	-	-
Kodiak Archipelago	-	-		-	-	-		-	-	-	-
Kodiak Villages	-	-		-	-	-		-	-	-	-
Kodiak City & Road-connected	-	-		-	-	-		-	-	-	-
Aleutian-Pribilof Islands	-		-			-	-	-	-	-	-
Aleutian-Pribilof Villages	-		-			-	-	-	-	-	-
Unalaska	-	-	-	-		-	-	-	-	-	-
Bristol Bay						-			-	-	-
South Alaska Peninsula		-	-			-	-		-	-	-
Southwest Bristol Bay						-	-		-	-	-
Dillingham	-		-			-	-		-	-	-
Yukon-Kuskokwim Delta											-
Y-K Delta South Coast											-
Y-K Delta Mid Coast											-
Y-K Delta North Coast								-	-		-
Lower Yukon								-	-		-
Lower Kuskokwim											-
Central Kuskokwim		-			-	-		-	-		-
Bethel									-	-	-
Bering Strait-Norton Sound			-		-					-	-
St. Lawrence-Diomedes Is.			-		-			20	55	-	-
Bering Strait Mainland Villages			-		-	-		-	-	-	-
Nome			-		-	-	-	-	-	-	-
Northwest Arctic	-	-		-	-	-	-	-		-	-
Northwest Arctic Villages	-	-		-	-	-	-	-	-	-	-
Kotzebue	-	-	-	-	-	-	-	-		-	-
North Slope	-		-				-	-	-	-	-
North Slope Villages	-						-	-	-	-	-
Barrow	-		-				-	-	-	-	-
Interior Alaska						-		-	-	-	-
Mid Yukon-Upper Kuskokwim				-	-	-		-	-	-	-
Yukon-Koyukuk						-		-	-	-	-
Upper Yukon		-			-	-		-	-	-	
Tanana Villages		-		-	-	-		-	-	-	-
Tok	-	-		-	-	-		-	-	-	-
Upper Copper River		-	-		-	-	-	-	-	-	-

Note The short-tailed shearwater has not been included in the survey. Harvest documentation occurred in the context of dedicated surveys carried out on St. Lawrence Island in 2011 and 2012 (Naves and Zeller 2013).

Note Gray cells indicate other regions and years where a survey was conducted.

Source Survey results for 2004–2014 were reported in Naves (2010rev.; 2010; 2011; 2012; 2014; 2015a; 2015b) and Naves and Braem (2014).

-: Region/subregion not surveyed.

Table 30.—Pelagic cormorant, Alaska subsistence harvest estimates, 2004–2014.

Regions, subregions	Pelagic cormorant harvest estimates (number of birds/year)										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gulf of Alaska-Cook Inlet				-	-	-		-	-	-	-
Gulf of Alaska Villages		-		-	-	-		-	-	-	-
Cordova	-	-	-	-	-	-	-	-	-		
Cook Inlet			-	-	-	-	-	-	-	-	
Kodiak Archipelago	-	-		-	-	-		-	-	-	-
Kodiak Villages	-	-		-	-	-		-	-	-	-
Kodiak City & Road-connected	-			-		-		-	-	-	-
Aleutian-Pribilof Islands	-					-	-	-	-	-	-
Aleutian-Pribilof Villages	-		-			-	-	-	-	-	-
Unalaska	-	-	-	-		-	-	-	-	-	-
Bristol Bay						-			-	-	-
South Alaska Peninsula		-	-			-	-	-	-	-	-
Southwest Bristol Bay						-	-	-	-	-	-
Dillingham	-		-			-	-	-	-	-	-
Yukon-Kuskokwim Delta								-			-
Y-K Delta South Coast								-			-
Y-K Delta Mid Coast								-			-
Y-K Delta North Coast								-			-
Lower Yukon								-			-
Lower Kuskokwim								-			-
Central Kuskokwim		-			-	-		-			-
Bethel								-			-
Bering Strait-Norton Sound	3,559	4,244	-	10,880	-	*	*	*	*	-	-
St. Lawrence-Diomedes Is.	‡	‡	-	‡	-	6,363	2,429	1,799	1,038	-	-
Bering Strait Mainland Villages	‡	‡	-	‡	-	-	0	-	-	-	-
Nome	‡	‡	-	‡	-	-	-	-	-	-	-
Northwest Arctic	-	-		-	-	-	-			-	-
Northwest Arctic Villages	-	-		-	-	-	-			-	-
Kotzebue	-	-	-	-	-	-	-			-	-
North Slope	-						-	-	-	-	-
North Slope Villages	-		-				-	-	-	-	-
Barrow	-		-				-	-	-	-	-
Interior Alaska	d	*	d	*	*	-	d	-	-	-	-
Mid Yukon-Upper Kuskokwim	d	d	d	-	-	-	d	-	-	-	-
Yukon-Koyukuk	d	d	d	d	d	-	d	-	-	-	-
Upper Yukon	d	-	d	d	-	-	d	-	-	-	d
Tanana Villages	d	-	d	-	-	-	d	-	-	-	-
Tok	-	-	d	-	-	-	d	-	-	-	-
Upper Copper River	d	-	-	d	-	-	-	-	-	-	-

Note Based on cormorants species distribution, cormorants harvested in the Bering Strait-Norton Sound region are pelagic cormorant.

Note Patterned cells indicate other regions where a survey was conducted.

Source Survey results for 2004–2014 were reported in Naves (2010rev.; 2010; 2011; 2012; 2014; 2015a; 2015b) and Naves and Braem (2014).

–: Region/subregion not surveyed.

*: Less than 75% of region households represented in sample, region harvest estimates not produced.

‡: Harvest estimates released only at region level.

d: Cormorants do not occur in these subregions and regions.

Table 31.—Cormorant (unidentified), Alaska subsistence harvest estimates, 2004–2014.

Regions, subregions	Cormorant (unidentified) harvest estimates (number of birds/year)										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gulf of Alaska-Cook Inlet	9 ^c	*	*	-	-	-	*	-	-	-	-
Gulf of Alaska Villages	9	-	0	-	-	-	0	-	-	-	-
Cordova	-	-	-	-	-	-	-	-	-	-	e
Cook Inlet	0	0	-	-	-	-	-	-	-	-	-
Kodiak Archipelago	-	-	*	-	-	-	0	-	-	-	-
Kodiak Villages	-	-	0	-	-	-	0	-	-	-	-
Kodiak City & Road-connected	-	-	a	-	-	-	0	-	-	-	-
Aleutian-Pribilof Islands	-	*	-	*	0	-	-	-	-	-	-
Aleutian-Pribilof Villages	-	0	-	0	0	-	-	-	-	-	-
Unalaska	-	-	-	-	0	-	-	-	-	-	-
Bristol Bay	*	0	*	0	0	-	-	10	-	-	-
South Alaska Peninsula	0	-	-	0	0	-	-	0	-	-	-
Southwest Bristol Bay	0	0	0	0	0	-	-	10	-	-	-
Dillingham	-	0	-	0	0	-	-	0	-	-	-
Yukon-Kuskokwim Delta	4	0	17	0 ^b	0	0	0	16	-	*	-
Y-K Delta South Coast	0	0	0	0	0	0	0	0	-	0	-
Y-K Delta Mid Coast	4	0	17	0	0	0	0	13	-	0	-
Y-K Delta North Coast	0	0	0	0	0	0	0	-	-	0	-
Lower Yukon	0	0	0	0	0	0	0	-	-	4	-
Lower Kuskokwim	0	0	0	0	0	0	0	0	-	0	-
Central Kuskokwim	0	-	0	0	-	-	0	-	-	-	-
Bethel	0	0	0	0 ^b	0	0	0	0	-	-	-
Bering Strait-Norton Sound											
St. Lawrence-Diomedes Is.											
Bering Strait Mainland Villages											
Nome											
Northwest Arctic	-	-	*	-	-	-	-	-	*	-	-
Northwest Arctic Villages	-	-	0	-	-	-	-	-	-	-	-
Kotzebue	-	-	-	-	-	-	-	-	0	-	-
North Slope	-	0	-	0	0	0	-	-	-	-	-
North Slope Villages	-	‡	-	‡	‡	‡	-	-	-	-	-
Barrow	-	‡	-	‡	‡	‡	-	-	-	-	-
Interior Alaska	d	*	d	*	*	-	d	-	-	-	-
Mid Yukon-Upper Kuskokwim	d	d	d	-	-	-	d	-	-	-	-
Yukon-Koyukuk	d	d	d	d	d	-	d	-	-	-	-
Upper Yukon	d	-	d	d	-	-	d	-	-	-	d
Tanana Villages	d	-	d	-	-	-	d	-	-	-	-
Tok	-	-	d	-	-	-	d	-	-	-	-
Upper Copper River	d	-	-	d	-	-	-	-	-	-	-

Note Based on cormorants species distribution, cormorants harvested in the Bering Strait-Norton Sound region are pelagic cormorant. In other regions, the species composition of cormorants harvest cannot be defined based on species distribution only.

Note Patterned cells: For cormorant harvest in the Bering Strait-Norton Sound regions, see Table 30 (pelagic cormorant).

Source Survey results for 2004–2014 were reported in Naves (2010rev.; 2010; 2011; 2012; 2014; 2015a; 2015) and Naves and Braem (2014).

-: Region/subregion not surveyed.

*: Less than 75% of region households represented in sample, region harvest estimates not produced.

‡: Harvest estimates released only at region level.

a: 2006 Fall-winter bird harvest data not available for Kodiak City and Road-connected subregion.

b: 2007 Bethel harvest estimates do not include fall bird harvest.

c: 2004 Chugach-Cook Inlet estimates do not include Cordova, where the subsistence bird hunt was first authorized in 2014.

d: Cormorants do not occur in these subregions and regions.

e: Species not included in the Cordova survey.

Table 32.—Tern, Alaska subsistence harvest estimates, 2004–2014.

Regions, subregions	Tern harvest estimates (number of birds/year)										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gulf of Alaska-Cook Inlet	0^c	*	*	-	-	-	*	-	-	-	-
Gulf of Alaska Villages	0	-	0	-	-	-	0	-	-	-	-
Cordova	-	-	-	-	-	-	-	-	-	-	d
Cook Inlet	0	0	-	-	-	-	-	-	-	-	-
Kodiak Archipelago	-	-	*	-	-	-	0	-	-	-	-
Kodiak Villages	-	-	0	-	-	-	0	-	-	-	-
Kodiak City & Road-connected	-	-	a	-	-	-	0	-	-	-	-
Aleutian-Pribilof Islands	-	*	-	*	0	-	-	-	-	-	-
Aleutian-Pribilof Villages	-	0	-	0	0	-	-	-	-	-	-
Unalaska	-	-	-	-	0	-	-	-	-	-	-
Bristol Bay	*	0	*	0	0	-	-	0	-	-	-
South Alaska Peninsula	0	-	-	0	0	-	-	0	-	-	-
Southwest Bristol Bay	0	0	0	0	0	-	-	0	-	-	-
Dillingham	-	0	-	0	0	-	-	0	-	-	-
Yukon-Kuskokwim Delta	20	0	0	0^b	112	25	100	61	-	*	-
Y-K Delta South Coast	0	0	0	0	0	0	0	0	-	64	-
Y-K Delta Mid Coast	0	0	0	0	110	25	100	48	-	0	-
Y-K Delta North Coast	15	0	0	0	0	0	0	-	-	0	-
Lower Yukon	0	0	0	0	0	0	0	-	-	0	-
Lower Kuskokwim	5	0	0	0	0	0	0	0	-	0	-
Central Kuskokwim	0	-	0	0	-	-	0	-	-	-	-
Bethel	0	0	0	0 ^b	0	0	0	0	-	-	-
Bering Strait-Norton Sound	0	60	-	0	-	*	*	*	*	-	-
St. Lawrence-Diomedes Is.	‡	‡	-	‡	-	0	0	0	0	-	-
Bering Strait Mainland Villages	‡	‡	-	‡	-	-	0	-	-	-	-
Nome	‡	‡	-	‡	-	-	-	-	-	-	-
Northwest Arctic	-	-	*	-	-	-	-	-	*	-	-
Northwest Arctic Villages	-	-	0	-	-	-	-	-	-	-	-
Kotzebue	-	-	-	-	-	-	-	-	0	-	-
North Slope	-	11	-	0	0	0	-	-	-	-	-
North Slope Villages	-	‡	-	‡	‡	‡	-	-	-	-	-
Barrow	-	‡	-	‡	‡	‡	-	-	-	-	-
Interior Alaska	0	*	0	*	*	-	0	-	-	-	-
Mid Yukon-Upper Kuskokwim	0	0	0	-	-	-	0	-	-	-	-
Yukon-Koyukuk	0	0	0	0	0	-	0	-	-	-	-
Upper Yukon	0	-	0	0	-	-	0	-	-	-	0
Tanana Villages	0	-	0	-	-	-	0	-	-	-	-
Tok	-	-	0	-	-	-	0	-	-	-	-
Upper Copper River	0	-	-	0	-	-	-	-	-	-	-

Source: Survey results for 2004–2014 were reported in Naves (2010rev.; 2010; 2011; 2012; 2014; 2015a; 2015b) and Naves and Braem (2014).

–: Region/subregion not surveyed.

*: Less than 75% of region households represented in sample, region harvest estimates not produced.

‡: Harvest estimates released only at region level.

a: 2006 Fall-winter bird harvest data not available for Kodiak City and Road-connected subregion.

b: 2007 Bethel harvest estimates does not include fall bird harvest.

c: 2004 Chugach-Cook Inlet estimate does not include Cordova, where the subsistence bird hunt was first authorized in 2014.

d: Species category not included in the Cordova survey.

Table 33.—Black-legged kittiwake, Alaska subsistence harvest estimates, 2004–2014.

Regions, subregions	Black-legged kittiwake harvest estimates (number of birds/year)										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gulf of Alaska-Cook Inlet	175^c	*	*	-	-	-	*	-	-	-	-
Gulf of Alaska Villages	175	-	0	-	-	-	0	-	-	-	-
Cordova	-	-	-	-	-	-	-	-	-	-	e
Cook Inlet	0	0	-	-	-	-	-	-	-	-	-
Kodiak Archipelago	-	-	*	-	-	-	2	-	-	-	-
Kodiak Villages	-	-	0	-	-	-	2	-	-	-	-
Kodiak City & Road-connected	-	-	a	-	-	-	0	-	-	-	-
Aleutian-Pribilof Islands	-	*	-	*	0	-	-	-	-	-	-
Aleutian-Pribilof Villages	-	0	-	0	0	-	-	-	-	-	-
Unalaska	-	-	-	-	0	-	-	-	-	-	-
Bristol Bay	*	0	*	0	0	-	-	0	-	-	-
South Alaska Peninsula	0	-	-	0	0	-	-	0	-	-	-
Southwest Bristol Bay	0	0	27	0	0	-	-	0	-	-	-
Dillingham	-	0	-	0	0	-	-	0	-	-	-
Yukon-Kuskokwim Delta	0	0	0	0^b	0	0	0	102	-	*	-
Y-K Delta South Coast	0	0	0	0	0	0	0	48	-	0	-
Y-K Delta Mid Coast	0	0	0	0	0	0	0	0	-	0	-
Y-K Delta North Coast	0	0	0	0	0	0	0	-	-	0	-
Lower Yukon	0	0	0	0	0	0	0	-	-	0	-
Lower Kuskokwim	0	0	0	0	0	0	0	32	-	0	-
Central Kuskokwim	0	-	0	0	-	-	0	-	-	-	-
Bethel	0	0	0	0 ^b	0	0	0	0	-	-	-
Bering Strait-Norton Sound	774	2,361	-	2,347	-	*	*	*	*	-	-
St. Lawrence-Diomedes Is.	‡	‡	-	‡	-	106	3	11	28	-	-
Bering Strait Mainland Villages	‡	‡	-	‡	-	-	0	-	-	-	-
Nome	‡	‡	-	‡	-	-	-	-	-	-	-
Northwest Arctic	-	-	*	-	-	-	-	-	*	-	-
Northwest Arctic Villages	-	-	11	-	-	-	-	-	-	-	-
Kotzebue	-	-	-	-	-	-	-	-	0	-	-
North Slope	-	0	-	0	0	0	-	-	-	-	-
North Slope Villages	-	‡	-	‡	‡	‡	-	-	-	-	-
Barrow	-	‡	-	‡	‡	‡	-	-	-	-	-
Interior Alaska	d	*	d	*	*	-	d	-	-	-	-
Mid Yukon-Upper Kuskokwim	d	d	d	-	-	-	d	-	-	-	-
Yukon-Koyukuk	d	d	d	d	d	-	d	-	-	-	-
Upper Yukon	d	-	d	d	-	-	d	-	-	-	d
Tanana Villages	d	-	d	-	-	-	d	-	-	-	-
Tok	-	-	d	-	-	-	d	-	-	-	-
Upper Copper River	d	-	-	d	-	-	-	-	-	-	-

Source: Survey results for 2004–2014 were reported in Naves (2010rev.; 2010; 2011; 2012; 2014; 2015a; 2015b) and Naves and Braem (2014).

–: Region/subregion not surveyed.

*: Less than 75% of region households represented in sample, region harvest estimates not produced.

‡: Harvest estimates released only at region level.

a: 2006 Fall-winter bird harvest data not available for Kodiak City and Road-connected subregion.

b: 2007 Bethel harvest estimate does not include fall bird harvest.

c: 2004 Chugach-Cook Inlet estimate does not include Cordova, where the subsistence bird hunt was first authorized in 2014.

d: Species does not occur in these subregions and regions.

e: Species not included in the Cordova survey.

Table 34.—Red-legged kittiwake, Alaska subsistence harvest estimates, 2004–2014.

Regions, subregions	Red-legged kittiwake harvest estimates (number of birds/year)										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gulf of Alaska-Cook Inlet	0^c	*	*	-	-	-	*	-	-	-	-
Gulf of Alaska Villages	0	-	0	-	-	-	0	-	-	-	-
Cordova	-	-	-	-	-	-	-	-	-	-	e
Cook Inlet	0	0	-	-	-	-	-	-	-	-	-
Kodiak Archipelago	-	-	*	-	-	-	0	-	-	-	-
Kodiak Villages	-	-	0	-	-	-	0	-	-	-	-
Kodiak City & Road-connected	-	-	a	-	-	-	0	-	-	-	-
Aleutian-Pribilof Islands	-	*	-	*	0	-	-	-	-	-	-
Aleutian-Pribilof Villages	-	0	-	0	0	-	-	-	-	-	-
Unalaska	-	-	-	-	0	-	-	-	-	-	-
Bristol Bay	*	0	*	0	0	-	-	0	-	-	-
South Alaska Peninsula	0	-	-	0	0	-	-	0	-	-	-
Southwest Bristol Bay	d	d	d	d	d	-	-	d	-	-	-
Dillingham	-	d	-	d	d	-	-	d	-	-	-
Yukon-Kuskokwim Delta	d	d	d	d	d	d	d	d	-	d	-
Y-K Delta South Coast	d	d	d	d	d	d	d	d	-	d	-
Y-K Delta Mid Coast	d	d	d	d	d	d	d	d	-	d	-
Y-K Delta North Coast	d	d	d	d	d	d	d	-	-	d	-
Lower Yukon	d	d	d	d	d	d	d	-	-	d	-
Lower Kuskokwim	d	d	d	d	d	d	d	d	-	d	-
Central Kuskokwim	d	-	d	d	-	-	d	-	-	-	-
Bethel	d	d	d	d	d	d	d	d	-	-	-
Bering Strait-Norton Sound	d	d	-	d	-	d	d	d	d	-	-
St. Lawrence-Diomedes Is.	d	d	-	d	-	d	d	d	d	-	-
Bering Strait Mainland Villages	d	d	-	d	-	-	d	-	-	-	-
Nome	d	d	-	d	-	-	-	-	-	-	-
Northwest Arctic	-	-	d	-	-	-	-	-	d	-	-
Northwest Arctic Villages	-	-	d	-	-	-	-	-	-	-	-
Kotzebue	-	-	-	-	-	-	-	-	d	-	-
North Slope	-	d	-	d	d	d	-	-	-	-	-
North Slope Villages	-	d	-	d	d	d	-	-	-	-	-
Barrow	-	d	-	d	d	d	-	-	-	-	-
Interior Alaska	d	*	d	*	*	-	d	-	-	-	-
Mid Yukon-Upper Kuskokwim	d	d	d	-	-	-	d	-	-	-	-
Yukon-Koyukuk	d	d	d	d	d	-	d	-	-	-	-
Upper Yukon	d	-	d	d	-	-	d	-	-	-	d
Tanana Villages	d	-	d	-	-	-	d	-	-	-	-
Tok	-	-	d	-	-	-	d	-	-	-	-
Upper Copper River	d	-	-	d	-	-	-	-	-	-	-

Source: Survey results for 2004–2014 were reported in Naves (2010rev.; 2010; 2011; 2012; 2014; 2015a; 2015b) and Naves and Braem (2014).

–: Region/subregion not surveyed.

*: Less than 75% of region households represented in sample, region harvest estimates not produced.

‡: Harvest estimates released only at region level.

a: 2006 Fall-winter bird harvest data not available for Kodiak City and Road-connected subregion.

b: 2007 Bethel harvest estimate does not include fall bird harvest.

c: 2004 Chugach-Cook Inlet estimate does not include Cordova, where the subsistence bird hunt was first authorized in 2014.

d: Species does not occur in these subregions and regions.

e: Species not included in the Cordova survey.

Table 35.—Bonaparte's/Sabine's gull, Alaska subsistence harvest estimates, 2004–2014.

Regions, subregions	Bonaparte's/Sabine's gull harvest estimates (number of birds/year)										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gulf of Alaska-Cook Inlet	0 ^c	*	*	-	-	-	*	-	-	-	-
Gulf of Alaska Villages	0	-	0	-	-	-	0	-	-	-	-
Cordova	-	-	-	-	-	-	-	-	-	-	e
Cook Inlet	0	0	-	-	-	-	-	-	-	-	-
Kodiak Archipelago	-	-	*	-	-	-	0	-	-	-	-
Kodiak Villages	-	-	0	-	-	-	0	-	-	-	-
Kodiak City & Road-connected	-	-	a	-	-	-	0	-	-	-	-
Aleutian-Pribilof Islands	-	*	-	*	0	-	-	-	-	-	-
Aleutian-Pribilof Villages	-	0	-	0	0	-	-	-	-	-	-
Unalaska	-	-	-	-	0	-	-	-	-	-	-
Bristol Bay	*	0	*	0	0	-	-	0	-	-	-
South Alaska Peninsula	0	-	-	0	0	-	-	0	-	-	-
Southwest Bristol Bay	0	0	0	0	0	-	-	0	-	-	-
Dillingham	-	0	-	0	0	-	-	0	-	-	-
Yukon-Kuskokwim Delta	0	0	82	0 ^b	0	0	0	144	-	*	-
Y-K Delta South Coast	0	0	82	0	0	0	0	0	-	0	-
Y-K Delta Mid Coast	0	0	0	0	0	0	0	113	-	0	-
Y-K Delta North Coast	0	0	0	0	0	0	0	-	-	0	-
Lower Yukon	0	0	0	0	0	0	0	-	-	0	-
Lower Kuskokwim	0	0	0	0	0	0	0	0	-	0	-
Central Kuskokwim	0	-	0	0	-	-	0	-	-	-	-
Bethel	0	0	0	0 ^b	0	0	0	0	-	-	-
Bering Strait-Norton Sound	7	0	-	0	-	*	*	*	*	-	-
St. Lawrence-Diomedes Is.	‡	‡	-	‡	-	18	0	0	28	-	-
Bering Strait Mainland Villages	‡	‡	-	‡	-	-	0	-	-	-	-
Nome	‡	‡	-	‡	-	-	-	-	-	-	-
Northwest Arctic	-	-	*	-	-	-	-	-	*	-	-
Northwest Arctic Villages	-	-	0	-	-	-	-	-	-	-	-
Kotzebue	-	-	-	-	-	-	-	-	0	-	-
North Slope	-	0	-	0	0	0	-	-	-	-	-
North Slope Villages	-	‡	-	‡	‡	‡	-	-	-	-	-
Barrow	-	‡	-	‡	‡	‡	-	-	-	-	-
Interior Alaska							0	-	-	-	-
Mid Yukon-Upper Kuskokwim				-	-	-	0	-	-	-	-
Yukon-Koyukuk							0	-	-	-	-
Upper Yukon							0	-	-	-	0
Tanana Villages							0	-	-	-	-
Tok	-	-	-	-	-	-	0	-	-	-	-
Upper Copper River							-	-	-	-	-

Note Gray cells indicate regions/subregions where the species category was not included in surveys in 2004–2009.

Source Survey results for 2004–2014 were reported in Naves (2010rev.; 2010; 2011; 2012; 2014; 2015a; 2015b) and Naves and Braem (2014).

–: Region/subregion not surveyed.

*: Less than 75% of region households represented in sample, region harvest estimates not produced.

‡: Harvest estimates released only at region level.

a: 2006 Fall-winter bird harvest data not available for Kodiak City and Road-connected subregion.

b: 2007 Bethel harvest estimate does not include fall bird harvest.

c: 2004 Chugach-Cook Inlet estimate does not include Cordova, where the subsistence bird hunt was first authorized in 2014.

e: Species category not included in the Cordova survey.

Table 36.—Mew gull, Alaska subsistence harvest estimates, 2004–2014.

Regions, subregions	Mew gull harvest estimates (number of birds/year)										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gulf of Alaska-Cook Inlet				-	-	-	*	-	-	-	-
Gulf of Alaska Villages		-		-	-	-	0	-	-	-	-
Cordova	-		-	-	-	-	-	-	-	-	d
Cook Inlet			-	-	-	-	-	-	-	-	-
Kodiak Archipelago	-	-		-	-	-	0	-	-	-	-
Kodiak Villages	-	-		-	-	-	0	-	-	-	-
Kodiak City & Road-connected	-	-		-	-	-	0	-	-	-	-
Aleutian-Pribilof Islands	-		-			-	-	-	-	-	-
Aleutian-Pribilof Villages	-					-	-	-	-	-	-
Unalaska	-	-	-	-		-	-	-	-	-	-
Bristol Bay	*	116	*	1,960	203	-	-	244	-	-	-
South Alaska Peninsula		-	-			-	-	0	-	-	-
Southwest Bristol Bay	132	43	0	1,548	203	-	-	244	-	-	-
Dillingham	-	67	-	412	0	-	-	0	-	-	-
Yukon-Kuskokwim Delta	134	0	6	387 ^b	38	102	0	158	-	*	-
Y-K Delta South Coast	19	0	0	382	37	0	0	125	-	356	-
Y-K Delta Mid Coast	0	0	0	0	0	69	0	0	-	0	-
Y-K Delta North Coast	115	0	0	0	0	0	0	-	-	0	-
Lower Yukon	0	0	0	0	0	20	0	-	-	0	-
Lower Kuskokwim	0	0	6	5	0	11	0	0	-	0	-
Central Kuskokwim	0	-	0	0	-	-	0	-	-	-	-
Bethel	0	0	0	0 ^b	0	0	0	0	-	-	-
Bering Strait-Norton Sound	106	18	-	0	-	*	*	*	*	-	-
St. Lawrence-Diomedes Is.	‡	‡	-	‡	-	0	10	13	0	-	-
Bering Strait Mainland Villages	‡	‡	-	‡	-	-	0	-	-	-	-
Nome	‡	‡	-	‡	-	-	-	-	-	-	-
Northwest Arctic	-	-	*	-	-	-	-	-	*	-	-
Northwest Arctic Villages	-	-	0	-	-	-	-	-	-	-	-
Kotzebue	-	-	-	-	-	-	-	-	0	-	-
North Slope	-	0	-	0	0	0	-	-	-	-	-
North Slope Villages	-	‡	-	‡	‡	‡	-	-	-	-	-
Barrow	-	‡	-	‡	‡	‡	-	-	-	-	-
Interior Alaska	0	*	0	*	*	-	0	-	-	-	-
Mid Yukon-Upper Kuskokwim	0	0	0	-	-	-	0	-	-	-	-
Yukon-Koyukuk	0	0	0	0	0	-	0	-	-	-	-
Upper Yukon	0	-	0	0	-	-	0	-	-	-	0
Tanana Villages	0	-	0	-	-	-	0	-	-	-	-
Tok	-	-	0	-	-	-	0	-	-	-	-
Upper Copper River	0	-	-	0	-	-	-	-	-	-	-

Note Gray cells indicate regions/subregions where the species was not included in surveys in 2004–2009.

Source Survey results for 2004–2014 were reported in Naves (2010rev.; 2010; 2011; 2012; 2014; 2015a; 2015b) and Naves and Braem (2014).

–: Region/subregion not surveyed.

*: Less than 75% of region households represented in sample, region harvest estimates not produced.

‡: Harvest estimates released only at region level.

a: 2006 Fall-winter bird harvest data not available for Kodiak City and Road-connected subregion.

b: 2007 Bethel harvest estimate does not include fall bird harvest.

c: 2004 Chugach-Cook Inlet estimate does not include Cordova, where the subsistence bird hunt was first authorized in 2014.

d: Species not included in the Cordova survey.

Table 37.—Large gull, subsistence harvest estimates (number of birds/year), Alaska, 2010–2014.

Regions, subregions	Large gull harvest estimates (number of birds/year)										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gulf of Alaska-Cook Inlet	117^c	*	*	-	-	-	*	-	-	-	-
Gulf of Alaska Villages	117	-	0	-	-	-	30	-	-	-	-
Cordova	-	-	-	-	-	-	-	-	-	-	d
Cook Inlet	0	0	-	-	-	-	-	-	-	-	-
Kodiak Archipelago	-	-	*	-	-	-	0	-	-	-	-
Kodiak Villages	-	-	0	-	-	-	0	-	-	-	-
Kodiak City & Road-connected	-	-	a	-	-	-	0	-	-	-	-
Aleutian-Pribilof Islands	-	*	-	*	0	-	-	-	-	-	-
Aleutian-Pribilof Villages	-	78	-	0	0	-	-	-	-	-	-
Unalaska	-	-	-	-	0	-	-	-	-	-	-
Bristol Bay	*	97	*	2,279	805	-	-	115	-	-	-
South Alaska Peninsula	138	-	-	0	0	-	-	16	-	-	-
Southwest Bristol Bay	0	0	81	2,279	805	-	-	99	-	-	-
Dillingham	-	91	-	0	0	-	-	0	-	-	-
Yukon-Kuskokwim Delta	762	173	23	363^b	0	235	112	166	-	*	-
Y-K Delta South Coast	76	0	0	0	0	113	0	126	-	414	-
Y-K Delta Mid Coast	12	117	0	363	0	118	112	5	-	0	-
Y-K Delta North Coast	664	37	0	0	0	0	0	-	-	0	-
Lower Yukon	0	15	23	0	0	0	0	-	-	0	-
Lower Kuskokwim	10	0	0	0	0	0	0	0	-	101	-
Central Kuskokwim	0	-	0	0	-	-	0	-	-	-	-
Bethel	0	0	0	0 ^b	0	0	0	0	-	-	-
Bering Strait-Norton Sound	752	1,245	-	1,276	-	*	*	*	*	-	-
St. Lawrence-Diomedes Is.	‡	‡	-	‡	-	545	205	549	259	-	-
Bering Strait Mainland Villages	‡	‡	-	‡	-	-	2,389	-	-	-	-
Nome	‡	‡	-	‡	-	-	-	-	-	-	-
Northwest Arctic	-	-	*	-	-	-	-	-	*	-	-
Northwest Arctic Villages	-	-	0	-	-	-	-	-	-	-	-
Kotzebue	-	-	-	-	-	-	-	-	0	-	-
North Slope	-	0	-	178	120	0	-	-	-	-	-
North Slope Villages	-	‡	-	‡	‡	‡	-	-	-	-	-
Barrow	-	‡	-	‡	‡	‡	-	-	-	-	-
Interior Alaska	0	*	0	*	*	-	0	-	-	-	-
Mid Yukon-Upper Kuskokwim	0	0	0	-	-	-	0	-	-	-	-
Yukon-Koyukuk	0	0	0	0	0	-	0	-	-	-	-
Upper Yukon	0	-	0	0	-	-	0	-	-	-	0
Tanana Villages	0	-	0	-	-	-	0	-	-	-	-
Tok	-	-	0	-	-	-	0	-	-	-	-
Upper Copper River	0	-	-	0	-	-	-	-	-	-	-

Note In 2004–2009, the survey listed glaucous-winged, glaucous, and herring gulls. In 2010–present, the survey uses the category "large gulls". Here, estimates for large gull species were combined for 2004–2009.

Source Survey results for 2004–2014 were reported in Naves (2010rev.; 2010; 2011; 2012; 2014; 2015a; 2015b) and Naves and Braem (2014).

–: Region/subregion not surveyed.

*: Less than 75% of region households represented in sample, region harvest estimates not produced.

‡: Harvest estimates released only at region level.

a: 2006 Fall-winter bird harvest data not available for Kodiak City and Road-connected subregion.

b: 2007 Bethel harvest estimate does not include fall bird harvest.

c: 2004 Chugach-Cook Inlet estimate does not include Cordova, where the subsistence bird hunt was first authorized in 2014.

d: Species category not included in the Cordova survey.

Table 38.—Auklet, Alaska subsistence harvest estimates, 2004–2014.

Regions, subregions	Auklet harvest estimates (number of birds/year)										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gulf of Alaska-Cook Inlet	0^c	*	*	-	-	-	*	-	-	-	-
Gulf of Alaska Villages	0	-	0	-	-	-	0	-	-	-	-
Cordova	-	-	-	-	-	-	-	-	-	-	e
Cook Inlet	0	0	-	-	-	-	-	-	-	-	-
Kodiak Archipelago	-	-	*	-	-	-	0	-	-	-	-
Kodiak Villages	-	-	53	-	-	-	0	-	-	-	-
Kodiak City & Road-connected	-	-	a	-	-	-	0	-	-	-	-
Aleutian-Pribilof Islands	-	*	-	*	0	-	-	-	-	-	-
Aleutian-Pribilof Villages	-	0	-	0	0	-	-	-	-	-	-
Unalaska	-	-	-	-	0	-	-	-	-	-	-
Bristol Bay	*	0	*	0	0	-	-	0	-	-	-
South Alaska Peninsula	0	-	-	0	0	-	-	0	-	-	-
Southwest Bristol Bay	0	0	0	0	0	-	-	0	-	-	-
Dillingham	-	0	-	0	0	-	-	0	-	-	-
Yukon-Kuskokwim Delta	0	0	0	0^b	0	0	0	0	-	*	-
Y-K Delta South Coast	0	0	0	0	0	0	0	0	-	0	-
Y-K Delta Mid Coast	0	0	0	0	0	0	0	0	-	0	-
Y-K Delta North Coast	0	0	0	0	0	0	0	-	-	0	-
Lower Yukon	0	0	0	0	0	0	0	-	-	0	-
Lower Kuskokwim	0	0	0	0	0	0	0	0	-	0	-
Central Kuskokwim	0	-	0	0	-	-	0	-	-	-	-
Bethel	0	0	0	0^b	0	0	0	0	-	-	-
Bering Strait-Norton Sound	7,671	1,000	-	18,553	-	*	*	*	*	-	-
St. Lawrence-Diomedes Is.	‡	‡	-	‡	-	9,151	3,584	3,063	3,161	-	-
Bering Strait Mainland Villages	‡	‡	-	‡	-	-	0	-	-	-	-
Nome	‡	‡	-	‡	-	-	-	-	-	-	-
Northwest Arctic	-	-	*	-	-	-	-	-	*	-	-
Northwest Arctic Villages	-	-	0	-	-	-	-	-	-	-	-
Kotzebue	-	-	-	-	-	-	-	-	0	-	-
North Slope	-	0	-	0	0	0	-	-	-	-	-
North Slope Villages	-	‡	-	‡	‡	‡	-	-	-	-	-
Barrow	-	‡	-	‡	‡	‡	-	-	-	-	-
Interior Alaska	d	*	d	*	*	-	d	-	-	-	-
Mid Yukon-Upper Kuskokwim	d	d	d	-	-	-	d	-	-	-	-
Yukon-Koyukuk	d	d	d	d	d	-	d	-	-	-	-
Upper Yukon	d	-	d	d	-	-	d	-	-	-	d
Tanana Villages	d	-	d	-	-	-	d	-	-	-	-
Tok	-	-	d	-	-	-	d	-	-	-	-
Upper Copper River	d	-	-	d	-	-	-	-	-	-	-

Source: Survey results for 2004–2014 were reported in Naves (2010rev.; 2010; 2011; 2012; 2014; 2015a; 2015b) and Naves and Braem (2014).

–: Region/subregion not surveyed.

*: Less than 75% of region households represented in sample, region harvest estimates not produced.

‡: Harvest estimates released only at region level.

a: 2006 Fall-winter bird harvest data not available for Kodiak City and Road-connected subregion.

b: 2007 Bethel harvest estimates do not include fall bird harvest.

c: 2004 Chugach-Cook Inlet estimate does not include Cordova, where the subsistence bird hunt was first authorized in 2014.

d: Species do not occur in these subregions and regions.

e: Species category not included in the Cordova survey.

Table 39.—Murre, Alaska subsistence harvest estimates, 2004–2014.

Regions, subregions	Murre harvest estimates (number of birds/year)										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gulf of Alaska-Cook Inlet	0^c	*	*	-	-	-	*	-	-	-	-
Gulf of Alaska Villages	0	-	0	-	-	-	0	-	-	-	-
Cordova	-	-	-	-	-	-	-	-	-	-	e
Cook Inlet	0	0	-	-	-	-	-	-	-	-	-
Kodiak Archipelago	-	-	*	-	-	-	0	-	-	-	-
Kodiak Villages	-	-	0	-	-	-	0	-	-	-	-
Kodiak City & Road-connected	-	-	a	-	-	-	0	-	-	-	-
Aleutian-Pribilof Islands	-	*	-	*	11	-	-	-	-	-	-
Aleutian-Pribilof Villages	-	0	-	0	0	-	-	-	-	-	-
Unalaska	-	-	-	-	11	-	-	-	-	-	-
Bristol Bay	*	0	*	1,393	0	-	-	0	-	-	-
South Alaska Peninsula	0	-	-	0	0	-	-	0	-	-	-
Southwest Bristol Bay	10	0	0	1,393	0	-	-	0	-	-	-
Dillingham	-	0	-	0	0	-	-	0	-	-	-
Yukon-Kuskokwim Delta	0	96	0	0^b	0	0	0	190	-	*	-
Y-K Delta South Coast	0	0	0	0	0	0	0	0	-	0	-
Y-K Delta Mid Coast	0	93	0	0	0	0	0	150	-	0	-
Y-K Delta North Coast	0	0	0	0	0	0	0	-	-	0	-
Lower Yukon	0	0	0	0	0	0	0	-	-	0	-
Lower Kuskokwim	0	0	0	0	0	0	0	0	-	0	-
Central Kuskokwim	0	-	0	0	-	-	0	-	-	-	-
Bethel	0	0	0	0 ^b	0	0	0	0	-	-	-
Bering Strait-Norton Sound	11,996	5,624	-	35,844	-	*	*	*	*	-	-
St. Lawrence-Diomedes Is.	‡	‡	-	‡	-	13,855	3,443	4,730	2,948	-	-
Bering Strait Mainland Villages	‡	‡	-	‡	-	-	0	-	-	-	-
Nome	‡	‡	-	‡	-	-	-	-	-	-	-
Northwest Arctic	-	-	*	-	-	-	-	-	*	-	-
Northwest Arctic Villages	-	-	0	-	-	-	-	-	-	-	-
Kotzebue	-	-	-	-	-	-	-	-	0	-	-
North Slope	-	29	-	0	0	0	-	-	-	-	-
North Slope Villages	-	‡	-	‡	‡	‡	-	-	-	-	-
Barrow	-	‡	-	‡	‡	‡	-	-	-	-	-
Interior Alaska	d	*	d	*	*	-	d	-	-	-	-
Mid Yukon-Upper Kuskokwim	d	d	d	-	-	-	d	-	-	-	-
Yukon-Koyukuk	d	d	d	d	d	-	d	-	-	-	-
Upper Yukon	d	-	d	d	-	-	d	-	-	-	d
Tanana Villages	d	-	d	-	-	-	d	-	-	-	-
Tok	-	-	d	-	-	-	d	-	-	-	-
Upper Copper River	d	-	-	d	-	-	-	-	-	-	-

Source: Survey results for 2004–2014 were reported in Naves (2010rev.; 2010; 2011; 2012; 2014; 2015a; 2015b) and Naves and Braem (2014).

–: Region/subregion not surveyed.

*: Less than 75% of region households represented in sample, region harvest estimates not produced.

‡: Harvest estimates released only at region level.

a: 2006 Fall-winter bird harvest data not available for Kodiak City and Road-connected subregion.

b: 2007 Bethel harvest estimate does not include fall bird harvest.

c: 2004 Chugach-Cook Inlet estimate does not include Cordova, where the subsistence bird hunt was first authorized in 2014.

d: Species do not occur in these regions or subregions.

e: Species category not included in the Cordova survey.

Table 40.—Guillemot, Alaska subsistence harvest estimates, 2004–2014.

Regions, subregions	Guillemot harvest estimates (number of birds/year)										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gulf of Alaska-Cook Inlet	0^c	*	*	-	-	-	*	-	-	-	-
Gulf of Alaska Villages	0	-	0	-	-	-	0	-	-	-	-
Cordova	-	-	-	-	-	-	-	-	-	-	e
Cook Inlet	0	0	-	-	-	-	-	-	-	-	-
Kodiak Archipelago	-	-	*	-	-	-	0	-	-	-	-
Kodiak Villages	-	-	0	-	-	-	0	-	-	-	-
Kodiak City & Road-connected	-	-	a	-	-	-	0	-	-	-	-
Aleutian-Pribilof Islands	-	*	-	*	0	-	-	-	-	-	-
Aleutian-Pribilof Villages	-	0	-	0	0	-	-	-	-	-	-
Unalaska	-	-	-	-	0	-	-	-	-	-	-
Bristol Bay	*	0	*	0	0	-	-	0	-	-	-
South Alaska Peninsula	0	-	-	0	0	-	-	0	-	-	-
Southwest Bristol Bay	0	0	0	0	0	-	-	0	-	-	-
Dillingham	-	0	-	0	0	-	-	0	-	-	-
Yukon-Kuskokwim Delta	0	0	0	0^b	0	0	0	190	-	*	-
Y-K Delta South Coast	0	0	0	0	0	0	0	0	-	0	-
Y-K Delta Mid Coast	0	0	0	0	0	0	0	150	-	0	-
Y-K Delta North Coast	0	0	0	0	0	0	0	-	-	0	-
Lower Yukon	0	0	0	0	0	0	0	-	-	0	-
Lower Kuskokwim	0	0	0	0	0	0	0	0	-	0	-
Central Kuskokwim	0	-	0	0	-	-	0	-	-	-	-
Bethel	0	0	0	0 ^b	0	0	0	0	-	-	-
Bering Strait-Norton Sound	478	35	-	0	-	*	*	*	*	-	-
St. Lawrence-Diomedes Is.	‡	‡	-	‡	-	1,141	3,030	38	15	-	-
Bering Strait Mainland Villages	‡	‡	-	‡	-	-	0	-	-	-	-
Nome	‡	‡	-	‡	-	-	-	-	-	-	-
Northwest Arctic	-	-	*	-	-	-	-	-	*	-	-
Northwest Arctic Villages	-	-	0	-	-	-	-	-	-	-	-
Kotzebue	-	-	-	-	-	-	-	-	0	-	-
North Slope	-	0	-	0	0	0	-	-	-	-	-
North Slope Villages	-	‡	-	‡	‡	‡	-	-	-	-	-
Barrow	-	‡	-	‡	‡	‡	-	-	-	-	-
Interior Alaska	d	*	d	*	*	-	d	-	-	-	-
Mid Yukon-Upper Kuskokwim	d	d	d	-	-	-	d	-	-	-	-
Yukon-Koyukuk	d	d	d	d	d	-	d	-	-	-	-
Upper Yukon	d	-	d	d	-	-	d	-	-	-	d
Tanana Villages	d	-	d	-	-	-	d	-	-	-	-
Tok	-	-	d	-	-	-	d	-	-	-	-
Upper Copper River	d	-	-	d	-	-	-	-	-	-	-

Source: Survey results for 2004–2014 were reported in Naves (2010rev.; 2010; 2011; 2012; 2014; 2015a; 2015b) and Naves and Braem (2014).

–: Region/subregion not surveyed.

*: Less than 75% of region households represented in sample, region harvest estimates not produced.

‡: Harvest estimates released only at region level.

a: 2006 Fall-winter bird harvest data not available for Kodiak City and Road-connected subregion.

b: 2007 Bethel harvest estimate does not include fall bird harvest.

c: 2004 Chugach-Cook Inlet estimate does not include Cordova, where the subsistence bird hunt was first authorized in 2014.

d: Species do not occur in these regions or subregions.

e: Species category not included in the Cordova survey.

Table 41.—Puffin, Alaska subsistence harvest estimates, 2004–2014.

Regions, subregions	Puffin harvest estimates (number of birds/year)										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gulf of Alaska-Cook Inlet	34^c	*	*	-	-	-	*	-	-	-	-
Gulf of Alaska Villages	34	-	0	-	-	-	15	-	-	-	-
Cordova	-	-	-	-	-	-	-	-	-	-	e
Cook Inlet	0	0	-	-	-	-	-	-	-	-	-
Kodiak Archipelago	-	-	*	-	-	-	0	-	-	-	-
Kodiak Villages	-	-	0	-	-	-	0	-	-	-	-
Kodiak City & Road-connected	-	-	a	-	-	-	0	-	-	-	-
Aleutian-Pribilof Islands	-	*	-	*	252	-	-	-	-	-	-
Aleutian-Pribilof Villages	-	731	-	2,744	252	-	-	-	-	-	-
Unalaska	-	-	-	-	0	-	-	-	-	-	-
Bristol Bay	*	0	*	0	0	-	-	0	-	-	-
South Alaska Peninsula	0	-	-	0	0	-	-	0	-	-	-
Southwest Bristol Bay	0	0	0	0	0	-	-	0	-	-	-
Dillingham	-	0	-	0	0	-	-	0	-	-	-
Yukon-Kuskokwim Delta	0	0	0	0^b	0	13	0	0	-	*	-
Y-K Delta South Coast	0	0	0	0	0	0	0	0	-	0	-
Y-K Delta Mid Coast	0	0	0	0	0	0	0	0	-	0	-
Y-K Delta North Coast	0	0	0	0	0	13	0	-	-	0	-
Lower Yukon	0	0	0	0	0	0	0	-	-	0	-
Lower Kuskokwim	0	0	0	0	0	0	0	0	-	0	-
Central Kuskokwim	0	-	0	0	-	-	0	-	-	-	-
Bethel	0	0	0	0 ^b	0	0	0	0	-	-	-
Bering Strait-Norton Sound	24	89	-	176	-	*	*	*	*	-	-
St. Lawrence-Diomedes Is.	‡	‡	-	‡	-	4	65	0	0	-	-
Bering Strait Mainland Villages	‡	‡	-	‡	-	-	0	-	-	-	-
Nome	‡	‡	-	‡	-	-	-	-	-	-	-
Northwest Arctic	-	-	*	-	-	-	-	-	*	-	-
Northwest Arctic Villages	-	-	0	-	-	-	-	-	-	-	-
Kotzebue	-	-	-	-	-	-	-	-	0	-	-
North Slope	-	0	-	5	9	0	-	-	-	-	-
North Slope Villages	-	‡	-	‡	‡	‡	-	-	-	-	-
Barrow	-	‡	-	‡	‡	‡	-	-	-	-	-
Interior Alaska	d	*	d	*	*	-	d	-	-	-	-
Mid Yukon-Upper Kuskokwim	d	d	d	-	-	-	d	-	-	-	-
Yukon-Koyukuk	d	d	d	d	d	-	d	-	-	-	-
Upper Yukon	d	-	d	d	-	-	d	-	-	-	d
Tanana Villages	d	-	d	-	-	-	d	-	-	-	-
Tok	-	-	d	-	-	-	d	-	-	-	-
Upper Copper River	d	-	-	d	-	-	-	-	-	-	-

Source: Survey results for 2004–2014 were reported in Naves (2010rev.; 2010; 2011; 2012; 2014; 2015a; 2015b) and Naves and Braem (2014).

–: Region/subregion not surveyed.

*: Less than 75% of region households represented in sample, region harvest estimates not produced.

‡: Harvest estimates released only at region level.

a: 2006 Fall-winter bird harvest data not available for Kodiak City and Road-connected subregion.

b: 2007 Bethel harvest estimate does not include fall bird harvest.

c: 2004 Chugach-Cook Inlet estimate does not include Cordova, where the subsistence bird hunt was first authorized in 2014.

d: Species do not occur in these subregions and regions.

e: Species category not included in the Cordova survey.

Table 42.—Black oystercatcher, Alaska subsistence harvest estimates, 2004–2014.

Regions, subregions	Black oystercatcher harvest estimates (number of birds/year)										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gulf of Alaska-Cook Inlet	0^c	*	*	-	-	-	*	-	-	-	-
Gulf of Alaska Villages	0	-	0	-	-	-	0	-	-	-	-
Cordova	-	-	-	-	-	-	-	-	-	-	e
Cook Inlet	0	0	-	-	-	-	-	-	-	-	-
Kodiak Archipelago	-	-	*	-	-	-	0	-	-	-	-
Kodiak Villages	-	-	0	-	-	-	0	-	-	-	-
Kodiak City & Road-connected	-	-	a	-	-	-	0	-	-	-	-
Aleutian-Pribilof Islands	-	*	-	*	64	-	-	-	-	-	-
Aleutian-Pribilof Villages	-	39	-	0	64	-	-	-	-	-	-
Unalaska	-	-	-	-	0	-	-	-	-	-	-
Bristol Bay	*	0	*	0	0	-	-	0	-	-	-
South Alaska Peninsula	0	-	-	0	0	-	-	0	-	-	-
Southwest Bristol Bay	d	d	d	d	d	-	-	d	-	-	-
Dillingham	-	d	-	d	d	-	-	d	-	-	-
Yukon-Kuskokwim Delta	d	d	d	d	d	d	d	d	-	d	-
Y-K Delta South Coast	d	d	d	d	d	d	d	d	-	d	-
Y-K Delta Mid Coast	d	d	d	d	d	d	d	d	-	d	-
Y-K Delta North Coast	d	d	d	d	d	d	d	-	-	d	-
Lower Yukon	d	d	d	d	d	d	d	-	-	d	-
Lower Kuskokwim	d	d	d	d	d	d	d	d	-	d	-
Central Kuskokwim	d	-	d	d	-	-	d	-	-	-	-
Bethel	d	d	d	d	d	d	d	d	-	-	-
Bering Strait-Norton Sound	d	d	-	d	-	d	d	d	d	-	-
St. Lawrence-Diomedes Is.	‡	‡	-	‡	-	d	d	d	d	-	-
Bering Strait Mainland Villages	‡	‡	-	‡	-	-	d	-	-	-	-
Nome	‡	‡	-	‡	-	-	-	-	-	-	-
Northwest Arctic	-	-	*	-	-	-	-	-	d	-	-
Northwest Arctic Villages	-	-	d	-	-	-	-	-	-	-	-
Kotzebue	-	-	-	-	-	-	-	-	d	-	-
North Slope	-	d	-	d	d	d	-	-	-	-	-
North Slope Villages	-	‡	-	‡	‡	‡	-	-	-	-	-
Barrow	-	‡	-	‡	‡	‡	-	-	-	-	-
Interior Alaska	d	*	d	*	*	-	d	-	-	-	-
Mid Yukon-Upper Kuskokwim	d	d	d	-	-	-	d	-	-	-	-
Yukon-Koyukuk	d	d	d	d	d	-	d	-	-	-	-
Upper Yukon	d	-	d	d	-	-	d	-	-	-	d
Tanana Villages	d	-	d	-	-	-	d	-	-	-	-
Tok	-	-	d	-	-	-	d	-	-	-	-
Upper Copper River	d	-	-	d	-	-	-	-	-	-	-

Source: Survey results for 2004–2014 were reported in Naves (2010rev.; 2010; 2011; 2012; 2014; 2015a; 2015b) and Naves and Braem (2014).

–: Region/subregion not surveyed.

*: Less than 75% of region households represented in sample, region harvest estimates not produced.

‡: Harvest estimates released only at region level.

a: 2006 Fall-winter bird harvest data not available for Kodiak City and Road-connected subregion.

b: 2007 Bethel harvest estimate does not include fall bird harvest.

c: 2004 Chugach-Cook Inlet estimate does not include Cordova, where the subsistence bird hunt was first authorized in 2014.

d: Species does not occur in these subregions and regions.

e: Species not included in the Cordova survey.

Table 43.—Whimbrel/curlew, Alaska subsistence harvest estimates, 2004–2014.

Regions, subregions	Whimbrel/curlew harvest estimates (number of birds/year)										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gulf of Alaska-Cook Inlet	0^c	*	*	-	-	-	*	-	-	-	-
Gulf of Alaska Villages	0	-	0	-	-	-	0	-	-	-	-
Cordova	-	-	-	-	-	-	-	-	-	-	d
Cook Inlet	0	0	-	-	-	-	-	-	-	-	-
Kodiak Archipelago	-	-	*	-	-	-	0	-	-	-	-
Kodiak Villages	-	-	0	-	-	-	0	-	-	-	-
Kodiak City & Road-connected	-	-	a	-	-	-	0	-	-	-	-
Aleutian-Pribilof Islands	-	*	-	*	0	-	-	-	-	-	-
Aleutian-Pribilof Villages	-	0	-	0	0	-	-	-	-	-	-
Unalaska	-	-	-	-	0	-	-	-	-	-	-
Bristol Bay	*	138	*	62	0	-	-	0	-	-	-
South Alaska Peninsula	0	-	-	0	0	-	-	0	-	-	-
Southwest Bristol Bay	0	121	0	62	0	-	-	0	-	-	-
Dillingham	-	9	-	0	0	-	-	0	-	-	-
Yukon-Kuskokwim Delta	174	21	69	26^b	240	20	21	11	-	*	-
Y-K Delta South Coast	0	0	44	12	228	20	0	9	-	59	-
Y-K Delta Mid Coast	166	16	0	14	8	0	0	0	-	0	-
Y-K Delta North Coast	8	5	0	0	0	0	21	-	-	0	-
Lower Yukon	0	0	0	0	0	0	0	-	-	0	-
Lower Kuskokwim	0	0	25	0	0	0	0	0	-	0	-
Central Kuskokwim	0	-	0	0	-	-	0	-	-	-	-
Bethel	0	0	0	0 ^b	0	0	0	0	-	-	-
Bering Strait-Norton Sound	0	7	-	0	-	*	*	*	*	-	-
St. Lawrence-Diomedes Is.	‡	‡	-	‡	-	0	0	0	0	-	-
Bering Strait Mainland Villages	‡	‡	-	‡	-	-	22	-	-	-	-
Nome	‡	‡	-	‡	-	-	-	-	-	-	-
Northwest Arctic	-	-	*	-	-	-	-	-	*	-	-
Northwest Arctic Villages	-	-	0	-	-	-	-	-	-	-	-
Kotzebue	-	-	-	-	-	-	-	-	0	-	-
North Slope	-	0	-	0	0	0	-	-	-	-	-
North Slope Villages	-	‡	-	‡	‡	‡	-	-	-	-	-
Barrow	-	‡	-	‡	‡	‡	-	-	-	-	-
Interior Alaska	0	*	6^e	*	*	-	0	-	-	-	-
Mid Yukon-Upper Kuskokwim	0	0	6 ^e	-	-	-	0	-	-	-	-
Yukon-Koyukuk	0	0	0	0	0	-	0	-	-	-	-
Upper Yukon	0	-	0	0	-	-	0	-	-	-	0
Tanana Villages	0	-	0	-	-	-	0	-	-	-	-
Tok	-	-	0	-	-	-	0	-	-	-	-
Upper Copper River	0	-	-	0	-	-	-	-	-	-	-

Note In 2004–2009, Whimbrel/curlew were listed in surveys as Whimbrel and Bristle-thighed curlew. In 2010–present, the category Whimbrel/curlew has been used. Estimates for these species were combined for 2004–2009.

Source Survey results for 2004–2014 were reported in Naves (2010rev.; 2010; 2011; 2012; 2014; 2015a; 2015b) and Naves and Braem (2014).

–: Region/subregion not surveyed.

*: Less than 75% of region households represented in sample, region harvest estimates not produced.

‡: Harvest estimates released only at region level.

a: 2006 Fall-winter bird harvest data not available for Kodiak City and Road-connected subregion.

b: 2007 Bethel harvest estimate does not include fall bird harvest.

c: 2004 Chugach-Cook Inlet estimate does not include Cordova, where the subsistence bird hunt was first authorized in 2014.

d: Species category not included in the Cordova survey.

e: 2006 Report of bristle-thighed curlew in the Mid Yukon-Upper Kuskokwim subregion was likely related to species identification issues.

Table 44.—Golden/black-bellied plover, Alaska subsistence harvest estimates, 2004–2014.

Regions, subregions	Golden/black-bellied plover harvest estimates (number of birds/year)										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gulf of Alaska-Cook Inlet	0^c	*	*	-	-	-	*	-	-	-	-
Gulf of Alaska Villages	0	-	0	-	-	-	0	-	-	-	-
Cordova	-	-	-	-	-	-	-	-	-	-	d
Cook Inlet	0	0	-	-	-	-	-	-	-	-	-
Kodiak Archipelago	-	-	*	-	-	-	0	-	-	-	-
Kodiak Villages	-	-	0	-	-	-	0	-	-	-	-
Kodiak City & Road-connected	-	-	a	-	-	-	0	-	-	-	-
Aleutian-Pribilof Islands	-	*	-	*	0	-	-	-	-	-	-
Aleutian-Pribilof Villages	-	156	-	0	0	-	-	-	-	-	-
Unalaska	-	-	-	-	0	-	-	-	-	-	-
Bristol Bay	*	0	*	0	0	-	-	3	-	-	-
South Alaska Peninsula	0	-	-	0	0	-	-	0	-	-	-
Southwest Bristol Bay	0	0	0	0	0	-	-	3	-	-	-
Dillingham	-	0	-	0	0	-	-	0	-	-	-
Yukon-Kuskokwim Delta	126	59	22	0^b	0	0	0	20	-	*	-
Y-K Delta South Coast	126	57	0	0	0	0	0	16	-	0	-
Y-K Delta Mid Coast	0	0	0	0	0	0	0	0	-	0	-
Y-K Delta North Coast	0	0	0	0	0	0	0	-	-	0	-
Lower Yukon	0	0	0	0	0	0	0	-	-	0	-
Lower Kuskokwim	0	0	22	0	0	0	0	0	-	0	-
Central Kuskokwim	0	-	0	0	-	-	0	-	-	-	-
Bethel	0	0	0	0 ^b	0	0	0	0	-	-	-
Bering Strait-Norton Sound	0	99	-	0	-	*	*	*	*	-	-
St. Lawrence-Diomedes Is.	‡	‡	-	‡	-	126	0	0	0	-	-
Bering Strait Mainland Villages	‡	‡	-	‡	-	-	0	-	-	-	-
Nome	‡	‡	-	‡	-	-	-	-	-	-	-
Northwest Arctic	-	-	*	-	-	-	-	-	*	-	-
Northwest Arctic Villages	-	-	0	-	-	-	-	-	-	-	-
Kotzebue	-	-	-	-	-	-	-	-	0	-	-
North Slope	-	0	-	9	0	46	-	-	-	-	-
North Slope Villages	-	‡	-	‡	‡	‡	-	-	-	-	-
Barrow	-	‡	-	‡	‡	‡	-	-	-	-	-
Interior Alaska	0	*	0	*	*	-	0	-	-	-	-
Mid Yukon-Upper Kuskokwim	0	0	0	-	-	-	0	-	-	-	-
Yukon-Koyukuk	0	0	0	0	0	-	0	-	-	-	-
Upper Yukon	0	-	0	0	-	-	0	-	-	-	0
Tanana Villages	0	-	0	-	-	-	0	-	-	-	-
Tok	-	-	0	-	-	-	0	-	-	-	-
Upper Copper River	0	-	-	0	-	-	-	-	-	-	-

Source: Survey results for 2004–2014 were reported in Naves (2010rev.; 2010; 2011; 2012; 2014; 2015a; 2015b) and Naves and Braem (2014).

–: Region/subregion not surveyed.

*: Less than 75% of region households represented in sample, region harvest estimates not produced.

‡: Harvest estimates released only at region level.

a: 2006 Fall-winter bird harvest data not available for Kodiak City and Road-connected subregion.

b: 2007 Bethel harvest estimate does not include fall bird harvest.

c: 2004 Chugach-Cook Inlet estimate does not include Cordova, where the subsistence bird hunt was first authorized in 2014.

d: Species category not included in the Cordova survey.

Table 45.—Godwit, Alaska subsistence harvest estimates, 2004–2014.

Regions, subregions	Godwit harvest estimates (number of birds/year)										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gulf of Alaska-Cook Inlet	0^c	*	*	-	-	-	*	-	-	-	-
Gulf of Alaska Villages	0	-	0	-	-	-	0	-	-	-	-
Cordova	-	-	-	-	-	-	-	-	-	-	d
Cook Inlet	0	0	-	-	-	-	-	-	-	-	-
Kodiak Archipelago	-	-	*	-	-	-	0	-	-	-	-
Kodiak Villages	-	-	0	-	-	-	0	-	-	-	-
Kodiak City & Road-connected	-	-	a	-	-	-	0	-	-	-	-
Aleutian-Pribilof Islands	-	*	-	*	0	-	-	-	-	-	-
Aleutian-Pribilof Villages	-	0	-	0	0	-	-	-	-	-	-
Unalaska	-	-	-	-	0	-	-	-	-	-	-
Bristol Bay	*	0	*	0	0	-	-	0	-	-	-
South Alaska Peninsula	0	-	-	0	0	-	-	0	-	-	-
Southwest Bristol Bay	0	0	0	0	0	-	-	0	-	-	-
Dillingham	-	0	-	0	0	-	-	0	-	-	-
Yukon-Kuskokwim Delta	1,349	26	4,639	4,308^b	0	1,658	1,530	289	-	*	-
Y-K Delta South Coast	26	17	74	0	0	0	0	225	-	0	-
Y-K Delta Mid Coast	1,294	0	4,559	4,308	0	1,593	1,516	3	-	1,926	-
Y-K Delta North Coast	29	0	0	0	0	0	14	-	-	0	-
Lower Yukon	0	8	0	0	0	0	0	-	-	0	-
Lower Kuskokwim	0	0	6	0	0	29	0	0	-	0	-
Central Kuskokwim	0	-	0	0	-	-	0	-	-	-	-
Bethel	0	0	0	0 ^b	0	0	0	0	-	-	-
Bering Strait-Norton Sound	0	21	-	0	-	*	*	*	*	-	-
St. Lawrence-Diomedes Is.	‡	‡	-	‡	-	0	0	0	0	-	-
Bering Strait Mainland Villages	‡	‡	-	‡	-	-	0	-	-	-	-
Nome	‡	‡	-	‡	-	-	-	-	-	-	-
Northwest Arctic	-	-	*	-	-	-	-	-	*	-	-
Northwest Arctic Villages	-	-	0	-	-	-	-	-	-	-	-
Kotzebue	-	-	-	-	-	-	-	-	0	-	-
North Slope	-	0	-	0	0	0	-	-	-	-	-
North Slope Villages	-	‡	-	‡	‡	‡	-	-	-	-	-
Barrow	-	‡	-	‡	‡	‡	-	-	-	-	-
Interior Alaska	12	*	0	*	*	-	0	-	-	-	-
Mid Yukon-Upper Kuskokwim	0	0	0	-	-	-	0	-	-	-	-
Yukon-Koyukuk	0	0	0	0	0	-	0	-	-	-	-
Upper Yukon	0	-	0	11	-	-	0	-	-	-	0
Tanana Villages	10	-	0	-	-	-	0	-	-	-	-
Tok	-	-	0	-	-	-	0	-	-	-	-
Upper Copper River	0	-	-	0	-	-	-	-	-	-	-

Source: Survey results for 2004–2014 were reported in Naves (2010rev.; 2010; 2011; 2012; 2014; 2015a; 2015b) and Naves and Braem (2014).

–: Region/subregion not surveyed.

*: Less than 75% of region households represented in sample, region harvest estimates not produced.

‡: Harvest estimates released only at region level.

a: 2006 Fall-winter bird harvest data not available for Kodiak City and Road-connected subregion.

b: 2007 Bethel harvest estimate does not include fall bird harvest.

c: 2004 Chugach-Cook Inlet estimate does not include Cordova, where the subsistence bird hunt was first authorized in 2014.

d: Species category not included in the Cordova survey.

Table 46.—Turnstone, Alaska subsistence harvest estimates, 2010–2014.

Regions, subregions	Turnstone harvest estimates (number of birds/year)										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gulf of Alaska-Cook Inlet				-	-	-	*	-	-	-	-
Gulf of Alaska Villages		-		-	-	-	0	-	-	-	-
Cordova	-	-		-	-	-	-	-	-	-	a
Cook Inlet			-	-	-	-	-	-	-	-	-
Kodiak Archipelago	-	-		-	-	-	0	-	-	-	-
Kodiak Villages	-	-		-	-	-	0	-	-	-	-
Kodiak City & Road-connected	-	-		-	-	-	0	-	-	-	-
Aleutian-Pribilof Islands	-		-			-	-	-	-	-	-
Aleutian-Pribilof Villages	-		-			-	-	-	-	-	-
Unalaska	-	-	-	-		-	-	-	-	-	-
Bristol Bay						-	-	0	-	-	-
South Alaska Peninsula		-	-			-	-	0	-	-	-
Southwest Bristol Bay						-	-	0	-	-	-
Dillingham	-		-			-	-	0	-	-	-
Yukon-Kuskokwim Delta							0	11	-	*	-
Y-K Delta South Coast							0	9	-	0	-
Y-K Delta Mid Coast							0	0	-	0	-
Y-K Delta North Coast							0	-	-	0	-
Lower Yukon							0	-	-	0	-
Lower Kuskokwim							0	0	-	0	-
Central Kuskokwim		-			-	-	0	-	-	-	-
Bethel							0	0	-	-	-
Bering Strait-Norton Sound			-		-		*	*	*	-	-
St. Lawrence-Diomedes Is.			-		-		0	0	0	-	-
Bering Strait Mainland Villages			-		-		0	-	-	-	-
Nome			-		-	-	-	-	-	-	-
Northwest Arctic	-	-		-	-	-	-	-	*	-	-
Northwest Arctic Villages	-	-		-	-	-	-	-	-	-	-
Kotzebue	-	-	-	-	-	-	-	-	0	-	-
North Slope	-		-				-	-	-	-	-
North Slope Villages	-		-				-	-	-	-	-
Barrow	-		-				-	-	-	-	-
Interior Alaska							b	-	-	-	-
Mid Yukon-Upper Kuskokwim				-	-	-	b	-	-	-	-
Yukon-Koyukuk							b	-	-	-	-
Upper Yukon		-		-	-	-	b	-	-	-	b
Tanana Villages		-		-	-	-	b	-	-	-	-
Tok	-	-		-	-	-	b	-	-	-	-
Upper Copper River		-	-			-	-	-	-	-	-

Note Gray cells indicate regions/subregions where the species category was not included in surveys in 2004–2009.

Source Survey results for 2004–2014 were reported in Naves (2010rev.; 2010; 2011; 2012; 2014; 2015a; 2015b) and Naves and Braem (2014).

-: Region/subregion not surveyed.

*: Less than 75% of region households represented in sample, region harvest estimates not produced.

a: Species category not included in the Cordova survey.

b: Species category does not occur in this subregions and regions.

Table 47.–Phalarope, Alaska subsistence harvest estimates, 2010–2014.

Regions, subregions	Phalarope harvest estimates (number of birds/year)										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gulf of Alaska-Cook Inlet				-	-	-	*	-	-	-	-
Gulf of Alaska Villages		-		-	-	-	0	-	-	-	-
Cordova	-	-	-	-	-	-	-	-	-	-	a
Cook Inlet			-	-	-	-	-	-	-	-	-
Kodiak Archipelago	-	-		-	-	-	0	-	-	-	-
Kodiak Villages	-	-		-	-	-	0	-	-	-	-
Kodiak City & Road-connected	-	-		-	-	-	0	-	-	-	-
Aleutian-Pribilof Islands	-		-			-	-	-	-	-	-
Aleutian-Pribilof Villages	-		-			-	-	-	-	-	-
Unalaska	-	-	-	-	-	-	-	-	-	-	-
Bristol Bay						-	-	0	-	-	-
South Alaska Peninsula		-	-			-	-	0	-	-	-
Southwest Bristol Bay						-	-	0	-	-	-
Dillingham	-		-			-	-	0	-	-	-
Yukon-Kuskokwim Delta							0	62	-	*	-
Y-K Delta South Coast							0	48	-	0	-
Y-K Delta Mid Coast							0	0	-	0	-
Y-K Delta North Coast							0	-	-	0	-
Lower Yukon							0	-	-	0	-
Lower Kuskokwim							0	0	-	0	-
Central Kuskokwim		-			-	-	0	-	-	-	-
Bethel							0	0	-	-	-
Bering Strait-Norton Sound			-		-		*	*	*	-	-
St. Lawrence-Diomedes Is.			-		-		68	0	0	-	-
Bering Strait Mainland Villages			-		-	-	0	-	-	-	-
Nome					-	-	-	-	-	-	-
Northwest Arctic	-	-		-	-	-	-	-	*	-	-
Northwest Arctic Villages	-	-		-	-	-	-	-	-	-	-
Kotzebue	-	-	-	-	-	-	-	-	0	-	-
North Slope	-						-	-	-	-	-
North Slope Villages	-						-	-	-	-	-
Barrow	-						-	-	-	-	-
Interior Alaska						-	0	-	-	-	-
Mid Yukon-Upper Kuskokwim				-	-	-	0	-	-	-	-
Yukon-Koyukuk						-	0	-	-	-	-
Upper Yukon		-				-	0	-	-	-	0
Tanana Villages		-		-	-	-	0	-	-	-	-
Tok	-	-		-	-	-	0	-	-	-	-
Upper Copper River		-				-	-	-	-	-	-

Note Gray cells indicate regions/subregions where the species category was not included in surveys in 2004–2009.

Source Survey results for 2004–2014 were reported in Naves (2010rev.; 2010; 2011; 2012; 2014; 2015a; 2015b) and Naves and Braem (2014).

–: Region/subregion not surveyed.

*: Less than 75% of region households represented in sample, region harvest estimates not produced.

a: Species category not included in the Cordova survey.

Table 48.—Small shorebird, Alaska subsistence harvest estimates, 2004–2014.

Regions, subregions	Small shorebird harvest estimates (number of birds/year)										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gulf of Alaska-Cook Inlet	0^c	*	*	-	-	-	*	-	-	-	-
Gulf of Alaska Villages	0	-	15	-	-	-	0	-	-	-	-
Cordova	-	-	-	-	-	-	-	-	-	-	d
Cook Inlet	0	0	-	-	-	-	-	-	-	-	-
Kodiak Archipelago	-	-	*	-	-	-	0	-	-	-	-
Kodiak Villages	-	-	0	-	-	-	0	-	-	-	-
Kodiak City & Road-connected	-	-	a	-	-	-	0	-	-	-	-
Aleutian-Pribilof Islands	-	*	-	*	0	-	-	-	-	-	-
Aleutian-Pribilof Villages	-	326	-	0	0	-	-	-	-	-	-
Unalaska	-	-	-	-	0	-	-	-	-	-	-
Bristol Bay	*	693	*	155	165	-	-	0	-	-	-
South Alaska Peninsula	0	-	-	0	0	-	-	0	-	-	-
Southwest Bristol Bay	0	161	0	155	165	-	-	0	-	-	-
Dillingham	-	491	-	0	0	-	-	0	-	-	-
Yukon-Kuskokwim Delta	358	11	40	64^b	0	9	7	198	-	*	-
Y-K Delta South Coast	186	11	0	0	0	0	0	76	-	0	-
Y-K Delta Mid Coast	167	0	0	0	0	0	0	15	-	0	-
Y-K Delta North Coast	4	0	0	0	0	0	7	-	-	0	-
Lower Yukon	0	0	0	0	0	0	0	-	-	0	-
Lower Kuskokwim	0	0	40	64	0	9	0	65	-	88	-
Central Kuskokwim	0	-	0	0	-	-	0	-	-	-	-
Bethel	0	0	0	0 ^b	0	0	0	0	-	-	-
Bering Strait-Norton Sound	59	29	-	0	-	*	*	*	*	-	-
St. Lawrence-Diomedes Is.	‡	‡	-	‡	-	0	0	18	0	-	-
Bering Strait Mainland Villages	‡	‡	-	‡	-	-	76	-	-	-	-
Nome	‡	‡	-	‡	-	-	-	-	-	-	-
Northwest Arctic	-	-	*	-	-	-	-	-	*	-	-
Northwest Arctic Villages	-	-	0	-	-	-	-	-	-	-	-
Kotzebue	-	-	-	-	-	-	-	-	0	-	-
North Slope	-	119	-	496	0	0	-	-	-	-	-
North Slope Villages	-	‡	-	‡	‡	‡	-	-	-	-	-
Barrow	-	‡	-	‡	‡	‡	-	-	-	-	-
Interior Alaska	8	*	0	*	*	-	0	-	-	-	-
Mid Yukon-Upper Kuskokwim	0	0	0	-	-	-	0	-	-	-	-
Yukon-Koyukuk	0	0	0	0	0	-	0	-	-	-	-
Upper Yukon	0	-	0	0	-	-	0	-	-	-	0
Tanana Villages	7	-	0	-	-	-	0	-	-	-	-
Tok	-	-	0	-	-	-	0	-	-	-	-
Upper Copper River	13	-	-	0	-	-	-	-	-	-	-

Source: Survey results for 2004–2014 were reported in Naves (2010rev.; 2010; 2011; 2012; 2014; 2015a; 2015b) and Naves and Braem (2014).

–: Region/subregion not surveyed.

*: Less than 75% of region households represented in sample, region harvest estimates not produced.

‡: Harvest estimates released only at region level.

a: 2006 Fall-winter bird harvest data not available for Kodiak City and Road-connected subregion.

b: 2007 Bethel harvest estimate does not include fall bird harvest.

c: 2004 Chugach-Cook Inlet estimate does not include Cordova, where the subsistence bird hunt was first authorized in 2014.

d: Species category not included in the Cordova survey.

Table 49.—Loon (all species combined), Alaska harvest estimates, 2004–2014.

Regions, subregions	Loon (unidentified) harvest estimates (number of birds/year)										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gulf of Alaska-Cook Inlet	5 ^c	*	*	-	-	-	*	-	-	-	-
Gulf of Alaska Villages	5	-	0	-	-	-	0	-	-	-	-
Cordova	-	-	-	-	-	-	-	-	-	-	d
Cook Inlet	0	0	-	-	-	-	-	-	-	-	-
Kodiak Archipelago	-	-	*	-	-	-	0	-	-	-	-
Kodiak Villages	-	-	0	-	-	-	0	-	-	-	-
Kodiak City & Road-connected	-	-	a	-	-	-	0	-	-	-	-
Aleutian-Pribilof Islands	-	*	-	*	0	-	-	-	-	-	-
Aleutian-Pribilof Villages	-	0	-	0	0	-	-	-	-	-	-
Unalaska	-	-	-	-	0	-	-	-	-	-	-
Bristol Bay	*	0	*	16	0	-	-	7	-	-	-
South Alaska Peninsula	0	-	-	0	0	-	-	0	-	-	-
Southwest Bristol Bay	41	0	55	16	0	-	-	7	-	-	-
Dillingham	-	0	-	0	0	-	-	0	-	-	-
Yukon-Kuskokwim Delta	419	309	572	154 ^b	350	118	42	0	-	*	-
Y-K Delta South Coast	53	23	0	13	23	0	0	0	-	0	-
Y-K Delta Mid Coast	138	171	564	0	32	77	0	0	-	0	-
Y-K Delta North Coast	12	3	0	0	0	0	10	-	-	0	-
Lower Yukon	0	24	0	0	0	4	0	-	-	7	-
Lower Kuskokwim	217	81	5	132	288	28	32	0	-	67	-
Central Kuskokwim	0	-	0	0	-	-	0	-	-	-	-
Bethel	0	0	3	10 ^b	0	7	0	0	-	-	-
Bering Strait-Norton Sound	1,240	981	-	4,043	-	*	*	*	*	-	-
St. Lawrence-Diomedes Is.	‡	‡	-	‡	-	768	57	171	205	-	-
Bering Strait Mainland Villages	‡	‡	-	‡	-	-	33	-	-	-	-
Nome	‡	‡	-	‡	-	-	-	-	-	-	-
Northwest Arctic	-	-	*	-	-	-	-	-	*	-	-
Northwest Arctic Villages	-	-	0	-	-	-	-	-	-	-	-
Kotzebue	-	-	-	-	-	-	-	-	0	-	-
North Slope	-	2	-	125	158	59	-	-	-	-	-
North Slope Villages	-	‡	-	‡	‡	‡	-	-	-	-	-
Barrow	-	‡	-	‡	‡	‡	-	-	-	-	-
Interior Alaska	0	*	6	*	*	-	0	-	-	-	-
Mid Yukon-Upper Kuskokwim	0	0	0	-	-	-	0	-	-	-	-
Yukon-Koyukuk	0	0	0	0	0	-	0	-	-	-	-
Upper Yukon	0	-	6	6	-	-	0	-	-	-	45
Tanana Villages	0	-	0	-	-	-	0	-	-	-	-
Tok	-	-	0	-	-	-	0	-	-	-	-
Upper Copper River	0	-	-	0	-	-	-	-	-	-	-

Note In 2004–2010, the survey listed common, Pacific, red-throated, and yellow-billed loons. Recent dedicated research highlighted loon species identification issues in harvest surveys (Naves and Zeller 2013). Here, estimates were combined for loon species.

Source Survey results for 2004–2014 were reported in Naves (2010rev.; 2010; 2011; 2012; 2014; 2015a; 2015b) and Naves and Braem (2014).

–: Region/subregion not surveyed.

*: Less than 75% of region households represented in sample, region harvest estimates not produced.

‡: Harvest estimates released only at region level.

a: 2006 Fall-winter bird harvest data not available for Kodiak City and Road-connected subregion.

b: 2007 Bethel harvest estimate does not include fall bird harvest.

c: 2004 Chugach-Cook Inlet estimate does not include Cordova, where the subsistence bird hunt was first authorized in 2014.

d: Species category not included in the Cordova survey.

Table 50.—Grebe, Alaska subsistence harvest estimates, 2004–2014.

Regions, subregions	Grebe harvest estimates (number of birds/year)										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gulf of Alaska-Cook Inlet				-	-	-	*	-	-	-	-
Gulf of Alaska Villages		-		-	-	-	0	-	-	-	-
Cordova	-	-	-	-	-	-	-	-	-	-	a
Cook Inlet			-	-	-	-	-	-	-	-	-
Kodiak Archipelago	-	-		-	-	-	0	-	-	-	-
Kodiak Villages	-	-		-	-	-	0	-	-	-	-
Kodiak City & Road-connected	-	-		-	-	-	0	-	-	-	-
Aleutian-Pribilof Islands	-		-			-	-	-	-	-	-
Aleutian-Pribilof Villages	-		-			-	-	-	-	-	-
Unalaska	-	-	-	-		-	-	-	-	-	-
Bristol Bay						-	-	9	-	-	-
South Alaska Peninsula		-	-			-	-	0	-	-	-
Southwest Bristol Bay						-	-	9	-	-	-
Dillingham	-		-			-	-	0	-	-	-
Yukon-Kuskokwim Delta							57	10	-	*	-
Y-K Delta South Coast							0	0	-	0	-
Y-K Delta Mid Coast							0	0	-	0	-
Y-K Delta North Coast							0	-	-	0	-
Lower Yukon							13	-	-	0	-
Lower Kuskokwim							44	8	-	16	-
Central Kuskokwim		-			-	-	0	-	-	-	-
Bethel							0	0	-	-	-
Bering Strait-Norton Sound			-		-		*	*	*	-	-
St. Lawrence-Diomedes Is.			-		-		2	9	10	-	-
Bering Strait Mainland Villages			-		-	-	0	-	-	-	-
Nome					-	-	-	-	-	-	-
Northwest Arctic	-	-		-	-	-	-	-	*	-	-
Northwest Arctic Villages	-	-		-	-	-	-	-	-	-	-
Kotzebue	-	-	-	-	-	-	-	-	0	-	-
North Slope	-		-				-	-	-	-	-
North Slope Villages	-		-				-	-	-	-	-
Barrow	-		-				-	-	-	-	-
Interior Alaska	0	*	0	*	*	-	0	-	-	-	-
Mid Yukon-Upper Kuskokwim	0	0	0	-	-	-	0	-	-	-	-
Yukon-Koyukuk	0	0	0	0	0	-	0	-	-	-	-
Upper Yukon	0	-	0	0	-	-	0	-	-	-	0
Tanana Villages	0	-	0	-	-	-	0	-	-	-	-
Tok	-	-	0	-	-	-	0	-	-	-	-
Upper Copper River	0	-	-	0	-	-	-	-	-	-	-

Note Gray cells indicate regions/subregions where the species was not included in surveys in 2004–2009.

Source Survey results for 2004–2014 were reported in Naves (2010rev.; 2010; 2011; 2012; 2014; 2015a; 2015b) and Naves and Braem (2014).

–: Region/subregion not surveyed.

*: Less than 75% of region households represented in sample, region harvest estimates not produced.

a: Species category not included in the Cordova survey.

Table 51.—Ptarmigan, Alaska subsistence harvest estimates, 2004–2014.

Regions, subregions	Ptarmigan harvest estimates (number of birds/year)										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gulf of Alaska-Cook Inlet	0 ^c	*	*	-	-	-	*	-	-	-	-
Gulf of Alaska Villages	0	-	0	-	-	-	0	-	-	-	-
Cordova	-	-	-	-	-	-	-	-	-	-	d
Cook Inlet	0	0	-	-	-	-	-	-	-	-	-
Kodiak Archipelago	-	-	*	-	-	-	3,761	-	-	-	-
Kodiak Villages	-	-	51	-	-	-	165	-	-	-	-
Kodiak City & Road-connected	-	-	a	-	-	-	3,596	-	-	-	-
Aleutian-Pribilof Islands	-	*	-	*	2,055	-	-	-	-	-	-
Aleutian-Pribilof Villages	-	1,591	-	0	1,829	-	-	-	-	-	-
Unalaska	-	-	-	-	226	-	-	-	-	-	-
Bristol Bay	*	8,269	*	3,441	7,893	-	-	13,031	-	-	-
South Alaska Peninsula	127	-	-	245	27	-	-	664	-	-	-
Southwest Bristol Bay	2,862	6,117	7,928	2,033	7,057	-	-	12,128	-	-	-
Dillingham	-	1,663	-	1,263	809	-	-	239	-	-	-
Yukon-Kuskokwim Delta	10,658	15,098	20,433	5,196 ^b	4,667	22,946	13,833	13,272	-	*	-
Y-K Delta South Coast	2,362	2,857	3,149	142	1,463	1,730	3,516	3,146	-	10,218	-
Y-K Delta Mid Coast	2,402	3,343	9,351	2,218	1,099	12,110	5,697	3,637	-	9,860	-
Y-K Delta North Coast	164	717	323	0	0	369	727	-	-	1,892	-
Lower Yukon	519	129	41	0	0	196	110	-	-	456	-
Lower Kuskokwim	5,212	1,656	7,080	2,787	997	6,798	3,556	3,469	-	11,455	-
Central Kuskokwim	0	-	0	0	-	-	78	-	-	-	-
Bethel	0	6,010	489	49 ^b	1,006	1,242	150	198	-	-	-
Bering Strait-Norton Sound	3,097	3,671	-	784	-	*	*	*	*	-	-
St. Lawrence-Diomedes Is.	‡	‡	-	‡	-	0	0	0	0	-	-
Bering Strait Mainland Villages	‡	‡	-	‡	-	-	689	-	-	-	-
Nome	‡	‡	-	‡	-	-	-	-	-	-	-
Northwest Arctic	-	-	*	-	-	-	-	-	*	-	-
Northwest Arctic Villages	-	-	123	-	-	-	-	-	-	-	-
Kotzebue	-	-	-	-	-	-	-	-	1,430	-	-
North Slope	-	759	-	2,833	1,556	1,267	-	-	-	-	-
North Slope Villages	-	‡	-	‡	‡	‡	-	-	-	-	-
Barrow	-	‡	-	‡	‡	‡	-	-	-	-	-
Interior Alaska	1,405	*	923	*	*	-	678	-	-	-	-
Mid Yukon-Upper Kuskokwim	0	14	0	-	-	-	0	-	-	-	-
Yukon-Koyukuk	9	0	0	0	0	-	330	-	-	-	-
Upper Yukon	32	-	105	46	-	-	148	-	-	-	227
Tanana Villages	1,089	-	545	-	-	-	125	-	-	-	-
Tok	-	-	273	-	-	-	75	-	-	-	-
Upper Copper River	138	-	-	64	-	-	-	-	-	-	-

Source: Survey results for 2004–2014 were reported in Naves (2010rev.; 2010; 2011; 2012; 2014; 2015a; 2015b) and Naves and Braem (2014).

-: Region/subregion not surveyed.

*: Less than 75% of region households represented in sample, region harvest estimates not produced.

‡: Harvest estimates released only at region level.

a: 2006 Fall-winter bird harvest data not available for Kodiak City and Road-connected subregion.

b: 2007 Bethel harvest estimate does not include fall bird harvest.

c: 2004 Chugach-Cook Inlet estimates does not include Cordova, where the subsistence bird hunt was first authorized in 2014.

d: Species category not included in the Cordova survey.

Table 52.—Grouse, Alaska subsistence harvest estimates, 2004–2014.

Regions, subregions	Grouse harvest estimates (number of birds/year)										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gulf of Alaska-Cook Inlet				-	-	-	*	-	-	-	-
Gulf of Alaska Villages		-		-	-	-	16	-	-	-	-
Cordova	-	-	-	-	-	-	-	-	-	-	c
Cook Inlet			-	-	-	-	-	-	-	-	-
Kodiak Archipelago	-	-		-	-	-	11	-	-	-	-
Kodiak Villages	-	-		-	-	-	11	-	-	-	-
Kodiak City & Road-connected	-	-		-	-	-	0	-	-	-	-
Aleutian-Pribilof Islands	-		-			-	-	-	-	-	-
Aleutian-Pribilof Villages	-					-	-	-	-	-	-
Unalaska	-	-	-	-		-	-	-	-	-	-
Bristol Bay	*	7,977	*	3,413	5,579	-	-	3,403	-	-	-
South Alaska Peninsula		-	-			-	-	0	-	-	-
Southwest Bristol Bay	1,314	3,933	273	715	4,029	-	-	2,832	-	-	-
Dillingham	-	3,572	-	2,698	1,549	-	-	570	-	-	-
Yukon-Kuskokwim Delta	444	388	1,490	334 ^b	0	87	736	3,496	-	*	-
Y-K Delta South Coast	0	0	0	0	0	0	0	0	-	0	-
Y-K Delta Mid Coast	0	0	0	0	0	0	0	0	-	0	-
Y-K Delta North Coast	0	0	0	0	0	0	0	-	-	0	-
Lower Yukon	65	16	307	0	0	31	164	-	-	27	-
Lower Kuskokwim	112	200	624	116	0	54	391	2,752	-	0	-
Central Kuskokwim	267	-	556	219	-	-	182	-	-	-	-
Bethel	0	163	4	0 ^b	0	0	0	0	-	-	-
Bering Strait-Norton Sound	283	488	-	78	-	*	*	*	*	-	-
St. Lawrence-Diomedes Is.	‡	‡	-	‡	-	0	0	0	0	-	-
Bering Strait Mainland Villages	‡	‡	-	‡	-	-	0	-	-	-	-
Nome	‡	‡	-	‡	-	-	-	-	-	-	-
Northwest Arctic	-	-	*	-	-	-	-	-	*	-	-
Northwest Arctic Villages	-	-	0	-	-	-	-	-	-	-	-
Kotzebue	-	-	-	-	-	-	-	-	8	-	-
North Slope	-	0	-	0	0	0	-	-	-	-	-
North Slope Villages	-	‡	-	‡	‡	‡	-	-	-	-	-
Barrow	-	‡	-	‡	‡	‡	-	-	-	-	-
Interior Alaska	5,815	*	2,772	*	*	-	1,289	-	-	-	-
Mid Yukon-Upper Kuskokwim	224	877	78	-	-	-	163	-	-	-	-
Yukon-Koyukuk	469	0	0	0	0	-	391	-	-	-	-
Upper Yukon	202	-	94	0	-	-	319	-	-	-	886
Tanana Villages	3,780	-	1,993	-	-	-	177	-	-	-	-
Tok	-	-	607	-	-	-	240	-	-	-	-
Upper Copper River	225	-	-	0	-	-	-	-	-	-	-

Note Gray cells indicate regions/subregions where the species was not included in surveys in 2004–2009.

Source Survey results for 2004–2014 were reported in Naves (2010rev.; 2010; 2011; 2012; 2014; 2015a; 2015b) and Naves and Braem (2014).

-: Region/subregion not surveyed.

*: Less than 75% of region households represented in sample, region harvest estimates not produced.

‡: Harvest estimates released only at region level.

b: 2007 Bethel harvest estimate does not include fall bird harvest.

c: Species category not included in the Cordova survey.

Table 53.—Other (unidentified) birds, Alaska subsistence harvest estimates, 2004–2014.

Regions, subregions	Bird (unidentified) harvest estimates (number of birds/year)										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gulf of Alaska-Cook Inlet	0^c	*	*	-	-	-	*	-	-	-	-
Gulf of Alaska Villages	0	-	0	-	-	-	0	-	-	-	-
Cordova	-	-	-	-	-	-	-	-	-	-	0
Cook Inlet	0	0	-	-	-	-	-	-	-	-	-
Kodiak Archipelago	-	-	*	-	-	-	3	-	-	-	-
Kodiak Villages	-	-	0	-	-	-	0	-	-	-	-
Kodiak City & Road-connected	-	-	a	-	-	-	3	-	-	-	-
Aleutian-Pribilof Islands	-	*	-	*	0	-	-	-	-	-	-
Aleutian-Pribilof Villages	-	0	-	0	0	-	-	-	-	-	-
Unalaska	-	-	-	-	0	-	-	-	-	-	-
Bristol Bay	*	221	*	0	0	-	-	0	-	-	-
South Alaska Peninsula	4	-	-	0	0	-	-	0	-	-	-
Southwest Bristol Bay	39	193	0	0	0	-	-	0	-	-	-
Dillingham	-	15	-	0	0	-	-	0	-	-	-
Yukon-Kuskokwim Delta	61	256	127	66^b	0	44	51	150	-	*	-
Y-K Delta South Coast	0	0	0	42	0	0	0	0	-	0	-
Y-K Delta Mid Coast	0	89	0	0	0	0	0	61	-	0	-
Y-K Delta North Coast	12	0	6	0	0	0	0	-	-	0	-
Lower Yukon	0	0	33	5	0	0	0	-	-	0	-
Lower Kuskokwim	49	161	0	19	0	43	0	0	-	0	-
Central Kuskokwim	0	-	88	0	-	-	0	-	-	-	-
Bethel	0	0	0	0 ^b	0	0	51	57	-	-	-
Bering Strait-Norton Sound	0	18	-	0	-	*	*	*	*	-	-
St. Lawrence-Diomedes Is.	‡	‡	-	‡	-	0	0	0	0	-	-
Bering Strait Mainland Villages	‡	‡	-	‡	-	-	0	-	-	-	-
Nome	‡	‡	-	‡	-	-	-	-	-	-	-
Northwest Arctic	-	-	*	-	-	-	-	-	*	-	-
Northwest Arctic Villages	-	-	0	-	-	-	-	-	-	-	-
Kotzebue	-	-	-	-	-	-	-	-	8 ^d	-	-
North Slope	-	64	-	31	2	0	-	-	-	-	-
North Slope Villages	-	‡	-	‡	‡	‡	-	-	-	-	-
Barrow	-	‡	-	‡	‡	‡	-	-	-	-	-
Interior Alaska	100	*	13	*	*	-	231	-	-	-	-
Mid Yukon-Upper Kuskokwim	0	14	12	-	-	-	0	-	-	-	-
Yukon-Koyukuk	0	0	0	0	0	-	0	-	-	-	-
Upper Yukon	0	-	1	11	-	-	0	-	-	-	0
Tanana Villages	80	-	0	-	-	-	231	-	-	-	-
Tok	-	-	0	-	-	-	0	-	-	-	-
Upper Copper River	145	-	-	0	-	-	-	-	-	-	-

Source: Survey results for 2004–2014 were reported in Naves (2010rev.; 2010; 2011; 2012; 2014; 2015a; 2015b) and Naves and Braem (2014).

-: Region/subregion not surveyed.

*: Less than 75% of region households represented in sample, region harvest estimates not produced.

‡: Harvest estimates released only at region level.

a: 2006 Fall-winter bird harvest data not available for Kodiak City and Road-connected subregion.

b: 2007 Bethel harvest estimate does not include fall bird harvest.

c: 2004 Chugach-Cook Inlet estimate does not include Cordova, where the subsistence bird hunt was first authorized in 2014.

d: Goose (unidentified).

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Appendix A.—Species and species categories represented in the 4 versions of the harvest report form and their distribution range in Alaska.

Species category Species ^a	Southern Coastal Alaska form				Western Alaska form				North Slope form	Interior Alaska form	
	Gulf of Alaska-Cook Inlet	Kodiak Archipelago	Aleutian- Pribilof Islands	South Alaska Peninsula ^b	Bristol Bay	Yukon- Kuskokwim Delta	Bering Strait- Norton Sound	North- west Arctic	North Slope	Interior Alaska	Upper Copper River
Ducks											
American wigeon <i>Anas americana</i>	x	x	x	x	x	x	x	x	x	x	x
Teal	x	x	x	x	x	x	x	x	x	x	x
Green-winged teal <i>A. crecca</i> (1)	(1, 2)	(1, 2)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1, 2)	(1, 2)
Blue-winged teal <i>A. discors</i> (2)											
Mallard <i>A. platyrhynchos</i>	x	x	x	x	x	x	x	x	x	x	x
Northern pintail <i>A. acuta</i>	x	x	x	x	x	x	x	x	x	x	x
Northern shoveler <i>A. clypeata</i>	x	x	x	x	x	x	x	x	x	x	x
Black scoter <i>Melanitta nigra</i>	x	x	x	x	x	x	x	x	x	x	x
Surf scoter <i>M. perspicillata</i>	x	x	x	x	x	x	x	x	x	x	x
White-winged scoter <i>M. fusca</i>	x	x	x	x	x	x	x	x	x	x	x
Bufflehead <i>Bucephala albeola</i>	x ^c	x ^c	x ^c	x ^c	x	x	x	x	-	x	x
Goldeneye	x	x	x	x	x	x	x	x	-	x	x
Common goldeneye <i>Bucephala clangula</i> (1)	(1, 2)	(1, 2)	(1, 2)	(1, 2)	(1, 2)	(1, 2)	(1)	(1)		(1, 2)	(1, 2)
Barrow's goldeneye <i>B. islandica</i> (2)											
Canvasback <i>Aythya valisineria</i>	x ^c	x ^c	x ^c	x ^c	x	x	x	x	-	x	x
Scaup	x	x	x	x	x	x	x	x	x	x	x
Greater scaup <i>Aythya marila</i> (1)	(1, 2)	(1, 2)	(1, 2)	(1, 2)	(1, 2)	(1, 2)	(1, 2)	(1, 2)	(1)	(1, 2)	(1, 2)
Lesser scaup <i>A. affinis</i> (2)											
Common eider <i>Somateria mollissima</i>	x	x	x	x	x	x	x	x	x	-	-
King eider <i>S. spectabilis</i>	x ^c	x ^c	x ^c	x ^c	x	x	x	x	x	-	-
Spectacled eider <i>S. fischeri</i> *	-	-	-	-	x	x	x	x	x	-	-
Steller's eider <i>Polysticta stelleri</i> *	x ^c	x ^c	x ^c	x ^c	x	x	x	x	x	-	-
Harlequin duck <i>Histrionicus histrionicus</i>	x	x	x	x	x	x	x	x	-	x	x

-continued-

Species category Species ^a	Southern Coastal Alaska form				Western Alaska form				North Slope form	Interior Alaska form	
	Gulf of Alaska-Cook Inlet	Kodiak Archipelago	Aleutian- Pribilof Islands	South Alaska Peninsula ^b	Bristol Bay	Yukon- Kuskokwim Delta	Bering Strait- Norton Sound	North- west Arctic	North Slope	Interior Alaska	Upper Copper River
Long-tailed duck <i>Clangula hyemalis</i>	x	x	x	x	x	x	x	x	x	x	x
Merganser	x	x	x	x	x	x	x	x	x	x	x
Common merganser <i>Mergus merganser</i> (1)	(1, 2)	(1, 2)	(1, 2)	(1, 2)	(1, 2)	(1, 2)	(1, 2)	(1, 2)	(2)	(1, 2)	(1, 2)
Red-breasted merganser <i>M. serrator</i> (2)											
Duck (unidentified)	x	x	x	x	x	x	x	x	x	x	x
Geese											
Black brant <i>Branta bernicla</i>	x ^c	x ^c	x ^c	x ^c	x	x	x	x	x	-	-
Canada/cackling goose	x	x	x	x	x	x	x	x	x	x	x
Taverner's Canada goose <i>Branta hutchinsii</i> <i>taverneri</i> (1)	(4, 5)	(3, 4?)	(3, 4?)	(4?)	(2?, 4)	(1, 2, 4)	(1, 4?)	(1, 4?)	(1)	(4)	(4)
Cackling Canada goose <i>B. h. minima</i> (2)											
Aleutian Canada goose <i>B. h. leucopareia</i> (3)											
Lesser Canada goose <i>B. canadensis parvipes</i> (4)											
Dusky Canada goose <i>B. c. occidentalis</i> (5)											
Greater white-fronted goose <i>Anser albifrons</i>	x	x	x	x	x	x	x	x	x	x	x
Emperor goose <i>Chen canagica</i> *	x ^c	x ^c	x ^c	x ^c	x	x	x	x	-	-	-
Lesser snow goose <i>C. caerulescens</i>	x ^c	x ^c	x ^c	x ^c	x	x	x	x	x	x	x
Goose (unidentified)	-	-	-	-	-	-	-	-	x	-	-
Swans											
Swan	x	x	x	x	x	x	x	x	x	x	x
Tundra swan <i>Cygnus columbianus</i> (1)	(1, 2)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1, 2)	(1, 2)
Trumpeter swan <i>C. buccinator</i> * (2)											
Cranes											
Sandhill crane <i>Grus canadensis</i>	x	x	x	x	x	x	x	x	x	x	x

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Species category Species ^a	Southern Coastal Alaska form				Western Alaska form				North Slope form	Interior Alaska form	
	Gulf of Alaska-Cook Inlet	Kodiak Archipelago	Aleutian- Pribilof Islands	South Alaska Peninsula ^b	Bristol Bay	Yukon- Kuskokwim Delta	Bering Strait- Norton Sound	North- west Arctic	North Slope	Interior Alaska	Upper Copper River
Ptarmigans and grouses											
Grouse	x	x(-)	x(-)	x(-)	x	x	x	x	x	x	x
Spruce grouse <i>Falcapennis canadensis</i> (1)	(1, 2)				(1)	(1, 2)	(1)	(1)	(1, 3)	(1, 2, 3)	(1, 2, 3)
Ruffed grouse <i>Bonasa umbellus</i> (2)											
Sharp-tailed grouse <i>Tympanuchus phasianellus</i> (3)											
Ptarmigan	x	x	x	x	x	x	x	x	x	x	x
Willow ptarmigan <i>Lagopus lagopus</i> (1)	(1, 2, 3)	(1, 2)	(1, 2)	(1, 2)	(1, 2)	(1, 2, 3)	(1, 2)	(1, 2)	(1, 2)	(1, 2, 3)	(1, 2, 3)
Rock ptarmigan <i>L. muta</i> (2)											
White-tailed ptarmigan <i>L. leucura</i> (3)											
Seabirds											
Cormorant	x	x	x	x	x	x	x	x	-	-	-
Pelagic cormorant <i>Phalacrocorax pelagicus</i> (1)	(1, 2, 3)	(1, 2, 3)	(1, 2, 3)	(1, 2, 3)	(1, 2, 3)	(1, 2, 3)	(1)	(1)			
Double-crested cormorant <i>P. auritus</i> (2)											
Red-faced cormorant <i>P. urile*</i> (3)											
Tern	x	x	x	x	x	x	x	x	x	x	x
Arctic tern <i>Sterna paradisaea</i> (1)	(1)	(1, 2)	(1, 2)	(1, 2)	(1, 2)	(1, 2)	(1, 2)	(1, 2)	(1)	(1)	(1)
Aleutian tern <i>Onychoprion aleutica</i> (2)											
Black-legged kittiwake <i>Rissa tridactyla</i>	x	x	x	x	x	x	x	x	-	-	-
Red-legged kittiwake <i>R. brevirostris</i>	x(-)	x(-)	x	x(-)	-	-	-	-	-	-	-
Bonaparte's/Sabine's gull	x	x	x	x	x	x	x	x	x	x	x
Bonaparte's gull <i>Larus philadelphia</i> (1)	(1, 2)	(1, 2)	(1, 2)	(1, 2)	(1, 2)	(1, 2)	(2)	(2)	(2)	(1)	(1)
Sabine's gull <i>Xema sabini</i> (2)											
Mew gull <i>Larus canus</i>	x	x	x(-)	x(-)	x	x	x	x	-	x	x

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Species category Species ^a	Southern Coastal Alaska form				Western Alaska form				North Slope form	Interior Alaska form	
	Gulf of Alaska-Cook Inlet	Kodiak Archipelago	Aleutian- Pribilof Islands	South Alaska Peninsula ^b	Bristol Bay	Yukon- Kuskokwim Delta	Bering Strait- Norton Sound	North- west Arctic	North Slope	Interior Alaska	Upper Copper River
Large gull	x	x	x	x	x	x	x	x	x	x	x
Glaucous-winged gull <i>L. glaucescens</i> (1)	(1, 3)	(1, 3)	(1, 3)	(1, 3)	(1, 2)	(2)	(2, 3)	(2)	(2)	(3)	(3)
Glaucous gull <i>L. hyperboreus</i> (2)											
Herring gull <i>L. argentatus</i> (3)											
Auklet	x	x	x	x	x	x	x	x	-	-	-
Cassin's auklet <i>Ptychoramphus aleuticus</i> (1)	(1, 2, 4, 6)	(1, 2, 3, 4, 6)	(1, 2, 3, 4, 5, 6)	(1, 2, 3, 4, 5, 6)	(1, 2, 3, 4, 6)	(2, 3, 4, 6)	(2, 3, 4, 6)	(2, 3, 4, 6)			
Crested auklet <i>Aethia cristatella</i> (2)											
Least auklet <i>A. pusilla</i> (3)											
Parakeet auklet <i>A. psittacula</i> (4)											
Whiskered auklet <i>A. pygmaea</i> (5)											
Rhinoceros auklet <i>Cerorhinca monocerata</i> (6)											
Murre	x	x	x	x	x	x	x	x	x	-	-
Common murre <i>Uria aalge</i> (1)	(1, 2)	(1, 2)	(1, 2)	(1, 2)	(1, 2)	(1, 2)	(1, 2)	(1, 2)	(1, 2)		
Thick-billed murre <i>U. lomvia</i> (2)											
Guillemot	x	x	x	x	x	x	x	x	x	-	-
Pigeon guillemot <i>Cephus columba</i> (1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1, 2)	(2)		
Black guillemot <i>C. grylle</i> (2)											
Puffin	x	x	x	x	x	x	x	x	-	-	-
Tufted puffin <i>Fratercula cirrhata</i> (1)	(1, 2)	(1, 2)	(1, 2)	(1, 2)	(1, 2)	(1, 2)	(1, 2)	(1, 2)			
Horned puffin <i>F. corniculata</i> (2)											

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Species category Species ^a	Southern Coastal Alaska form				Western Alaska form				North Slope form	Interior Alaska form	
	Gulf of Alaska-Cook Inlet	Kodiak Archipelago	Aleutian- Pribilof Islands	South Alaska Peninsula ^b	Bristol Bay	Yukon- Kuskokwim Delta	Bering Strait- Norton Sound	North- west Arctic	North Slope	Interior Alaska	Upper Copper River
Shorebirds											
Black oystercatcher <i>Haematopus bachmani</i>	x	x	x	x	-	-	-	-	-	-	-
Whimbrel/curlew	x	x	x(-)	x	x	x	x	x	x	x	x
Whimbrel <i>Numenius phaeopus</i> * (1)	(1)	(1)		(1)	(1)	(1, 2)	(1, 2)	(1)	(1)	(1)	(1)
Bristle-thighed curlew <i>N. tahitiensis</i> * (2)											
Godwit	x	x(-)	x(-)	x	x	x	x	x	x	x	x(-)
Bar-tailed godwit <i>Limosa lapponica</i> (1)	(2)			(1)	(1, 2,	(1, 2)	(1, 2)	(1, 2)	(1)	(2)	
Hudsonian godwit <i>L. haemastica</i> * (2)					3)						
Marbled godwit <i>L. fedoa</i> * (3)											
Golden/black-bellied plover	x	x	x	x	x	x	x	x	x	x	x
American golden plover <i>Pluvialis dominica</i> * (1)	(1, 2, 3)	(1, 2, 3)	(1, 2, 3)	(1, 2, 3)	(1, 2,	(1, 2, 3)	(1, 2, 3)	(1, 3)	(1, 2, 3)	(1, 2,	(1, 2,
Pacific golden plover <i>P. squatarola</i> * (2)					3)					3)	3)
Black-bellied plover <i>P. fulva</i> (3)											
Turnstone	x	x	x	x	x	x	x	x	x	-	-
Ruddy turnstone <i>Arenaria interpres</i> (1)	(2)	(1, 2)	(1)	(1, 2)	(1, 2)	(1, 2)	(1, 2)	(1, 2)	(1, 2)		
Black turnstone <i>A. melanocephala</i> * (2)											
Phalarope	x	x	x	x	x	x	x	x	x	x	x
Red-necked phalarope <i>Phalaropus lobatus</i> (1)	(1)	(1, 2)	(1, 2)	(1, 2)	(1, 2)	(1, 2)	(1, 2)	(1, 2)	(1, 2)	(1, 2)	(1, 2)
Red phalarope <i>P. fulicaria</i> (2)											

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Species category Species ^a	Southern Coastal Alaska form				Western Alaska form				North Slope form	Interior Alaska form	
	Gulf of Alaska-Cook Inlet	Kodiak Archipelago	Aleutian- Pribilof Islands	South Alaska Peninsula ^b	Bristol Bay	Yukon- Kuskokwim Delta	Bering Strait- Norton Sound	North- west Arctic	North Slope	Interior Alaska	Upper Copper River
Small shorebird	x	x	x	x	x	x	x	x	x	x	x
Dunlin <i>Calidris alpina</i> (1)	(1, 2, 3, 4, 5,	(1, 2, 3, 4, 5,	(1, 3, 4,	(1, 2, 3, 4,	(1, 2,	(1, 2, 3, 4,	(1, 2, 3,	(1, 2, 3,	(1, 2, 4,	(1, 2, 3,	(1, 2,
Pectoral sandpiper <i>C. melanotos</i> * (2)	6, 7, 11, 13,	6, 7, 11, 13,	6, 7, 11,	5, 6, 7, 11,	3, 4, 5,	5, 6, 7, 11,	4, 5, 6, 7,	4, 5, 6,	5, 6, 7, 8,	4, 5, 6,	3, 4, 5,
Rock sandpiper <i>C. ptilocnemis</i> * (3)	14, 15, 16,	14, 15, 16,	13, 17,	13, 14, 15,	6, 7,	12, 13, 14,	11, 12,	7, 11,	9, 10, 11,	7, 11,	6, 7,
Western sandpiper <i>C. mauri</i> (4)	17, 18, 19,	17, 18, 19,	19, 23,	16, 17, 18,	11, 13,	15, 16, 17,	13, 14,	12, 13,	12, 13,	13, 14,	11, 13,
Semipalmated sandpiper <i>C. pusilla</i> (5)	22, 23, 24)	22, 23, 24)	24)	19, 22, 23,	14, 15,	18, 19, 22,	15, 16,	14, 15,	14, 17,	15, 16,	14, 15,
Least sandpiper <i>C. minutilla</i> (6)				24)	16, 17,	23, 24)	17, 18,	16, 17,	18, 19,	17, 18,	16, 17,
Baird's sandpiper <i>C. bairdii</i> (7)					18, 19,		19, 22,	18, 19,	18, 19,	19, 20,	18, 19,
White-rumped sandpiper <i>C. fuscicollis</i> * (8)					22, 23,		23, 24)	22, 23,	20, 21,	22, 23,	20, 22,
Stilt sandpiper <i>C. himantopus</i> * (9)					24)			24)	23, 24)	24)	23, 24)
Red-necked stint <i>C. ruficollis</i> * (10)											
Sanderling <i>C. alba</i> * (11)											
Sharp-tailed sandpiper <i>C. acuminata</i> (12)											
Semipalmated plover <i>Charadrius</i> <i>semipalmatus</i> * (13)											
Lesser yellowlegs <i>Tringa flavipes</i> (14)											
Greater yellowlegs <i>T. melanoleuca</i> (15)											
Solitary sandpiper <i>T. solitaria</i> * (16)											
Spotted sandpiper <i>Actitis macularia</i> (17)											
Surfbird <i>Aphirza virgata</i> * (18)											
Wandering tattler <i>Heteroscelus incanus</i> * (19)											
Upland sandpiper <i>Bartramia longicauda</i> * (20)											
Buff-breasted sandpiper <i>Tryngites</i> <i>subruficollis</i> * (21)											
Short-billed dowitcher <i>Limnodromus griseus</i> * (22)											
Long-billed dowitcher <i>L. scolopaceus</i> (23)											
Wilson's snipe <i>Gallinago delicata</i> (24)											

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Species category Species ^a	Southern Coastal Alaska form				Western Alaska form				North Slope form	Interior Alaska form	
	Gulf of Alaska-Cook Inlet	Kodiak Archipelago	Aleutian- Pribilof Islands	South Alaska Peninsula ^b	Bristol Bay	Yukon- Kuskokwim Delta	Bering Strait- Norton Sound	North- west Arctic	North Slope	Interior Alaska	Upper Copper River
Loons and grebes											
Common loon <i>Gavia immer</i>	x	x	x	x	x	x	x	x	-	x	x
Pacific loon	x	x	x	x	x	x	x	x	x	x	x
Pacific loon <i>G. pacifica</i> (1)	(1)	(1)	(1)	(1)	(1)	(1, 2)	(1, 2)	(1, 2)	(1)	(1)	(1)
Arctic loon <i>G. arctica</i> (2)											
Red-throated loon <i>G. stellata</i>	x	x	x	x	x	x	x	x	x	x	x
Yellow-billed loon <i>G. adamsii</i> *	x ^c	x ^c	x ^c	x ^c	x	x	x	x	x	-	-
Grebe	x	x	x	x	x	x	x	x	-	x	x
Red-necked grebe <i>Podiceps griseana</i> (1)	(1, 2)	(1, 2)	(1, 2)	(1, 2)	(1, 2)	(1, 2)	(1, 2)	(1, 2)		(1, 2)	(1, 2)
Horned grebe <i>P. auritus</i> (2)											
Owls											
Snowy owl <i>Bubo scandiacus</i>	-	-	-	-	-	-	-	-	x	-	-
Other/unknown bird											
Other/unknown bird	x	x	x	x	x	x	x	x	x	x	x

Sources For information on distribution range of species: Johnson and Herter (1989), Timm and Rothe (2008), MacIntosh (2000), Dunn and Alderfer (2008), Pearce et al. (2000), Banks et al. (2004), Sibley Guides (2010), The Birds of North America Series, Sea Duck Joint Venture (2003), Denlinger (2006), Warren (2006), Johnson et al. (2007), Alaska Shorebird Group (2008), Bowman (2008), Pacific Flyway Council (1999rev.), Lanctot (R. Lanctot, Migratory Bird Management, USFWS, Anchorage, personal communication), Taylor (E. Taylor, Migratory Bird Management, USFWS, Anchorage, personal communication), Dewhurst (D. Dewhurst, Migratory Bird Management, USFWS, Anchorage, personal communication), Irons (D. Irons, Migratory Bird Management, USFWS, Anchorage, personal communication), Dau (C. Dau, Migratory Bird Management, USFWS, Anchorage, personal communication), Rosenberg (D. Rosenberg, Division of Wildlife Conservation, ADF&G, Anchorage, personal communication).

a. If more than one species is listed, the first name is the one used on the harvest survey form.

b. The South Alaska Peninsula is a subregion of the Bristol Bay region; most of the Bristol Bay region is surveyed with the Western Alaska Form, but the South Alaska Peninsula is surveyed with the Southern Coastal Alaska form.

c. Included in spring, fall, and winter sheets only; species breeds in other region(s) during summer.

x The species is included in the harvest report form used in the region. Numbers in parenthesis indicate the species likely to occur in each region.

- The species is not included in the harvest report form used in the region.

x(-) The species is included in the harvest report form but it is unlikely to occur in the region.

* Species closed to harvest of birds or eggs, at least in certain management units.

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A NOTE ON THE AMBCC LOGO

Indigenous Yup'ik peoples live in Western, Southwestern, and Southcentral Alaska, as well as in the Russian Far East. In the traditional Yup'ik universe, each animal species has its own world, where they live in communities, like people, and which shamans can visit. Historically, artists carved masks to represent the shaman's spirit helpers and the spirits of fish and wildlife. The different levels of the universe inhabited by the spirits of the animals were represented by rings around a mask. Masks were used during a winter ceremony called *Kelek*, or "Inviting-In Feast." The host community invited people of other communities, as well as the spirits of people who had died and the spirits of the animals, to participate in the ceremony. During *Kelek*, people sang, drummed, and danced with masks to ask for plentiful harvests in the coming year, to appease animal spirits that may have been offended, and to avoid misfortune in the relationship between people and animals. The masks also could be funny, abstract, fearsome, representations of human faces, and very small or very large. Most *Kelek* masks were destroyed after the ceremony. Today, masks are important items in Native art and economies and are designed to be displayed rather than worn. Yup'ik animal masks are beautiful materializations of the Yup'ik appreciation and respect for the natural resources they depend upon. To learn more about *Kelek* and Yup'ik masks see Fienup-Riordan (1983, 1996) and Pete (1989).

The logo of the Alaska Migratory Bird Co-Management Council (AMBCC) incorporates the drawing of a Yup'ik mask by artist Katie Curtis from Toksook Bay, Alaska. Some people refer to this drawing as "The Goose Mask." The U.S. Fish and Wildlife Service commissioned this drawing in the late 1990s during the process of creating the AMBCC. An actual mask was not carved. The original drawing is black and white; the colors used here were added in 2009 when new outreach materials were produced for the AMBCC subsistence harvest survey. The choice of colors was based on historical and current Yup'ik artwork. Katie Curtis was consulted during this process and agreed with the use of the colors. The mask depicts a Canada goose surrounded by 8 feathers. The feathers represent the 8 steps to implement a legal, regulated spring subsistence bird hunt: 1) Notify people of the intent to form management bodies; 2) Meet to share ideas; 3) Send out ideas and listen; 4) Choose the form of management bodies; 5) Start rule-making; 6) Recommend rules for Alaska; 7) Link with management in other U.S. flyways; and 8) Link with the nation. Since its inception, this new regulatory framework has been designed to promote true collaboration among a diversity of stakeholders as cultures intermingle in the history of wildlife management and conservation in Alaska.



References

- Fienup-Riordan, Ann. 1983. *The Nelson Island Eskimo: Social Structure and Ritual Distribution*. The Alaskan Book Series no. 40. Alaska Pacific University Press, Anchorage. Cited in this report as Fienup-Riordan 1983.
- Fienup-Riordan, Ann. 1996. *The Living Tradition of Yup'ik Masks: Agayuliyararput = Our Way of Making Prayer*. University of Washington Press, Seattle. Cited in this report as Fienup-Riordan 1996.
- Pete, Mary C. 1989. "The Universe in a Mask." *Alaska Fish and Game* 21 (6): 38–39. Alaska Department of Fish and Game, Juneau. Cited in this report as Pete 1989.