

Fishery Data Series No. 25-36

Subsistence and Personal Use Salmon Harvests in the Alaska Portion of the Yukon River Drainage, 2024

by

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and

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August 2025

Alaska Department of Fish and Game

Divisions of Sport Fish and Commercial Fisheries



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Weights and measures (metric)		General		Mathematics, statistics		
centimeter	cm	Alaska Administrative Code	AAC	all standard mathematical signs, symbols and abbreviations		
deciliter	dL	all commonly accepted abbreviations	e.g., Mr., Mrs., AM, PM, etc.	alternate hypothesis	H _A	
gram	g	all commonly accepted professional titles	e.g., Dr., Ph.D., R.N., etc.	base of natural logarithm	e	
hectare	ha			catch per unit effort	CPUE	
kilogram	kg			coefficient of variation	CV	
kilometer	km	at compass directions:	@	common test statistics	(F, t, χ^2 , etc.)	
liter	L			confidence interval	CI	
meter	m			correlation coefficient (multiple)	R	
milliliter	mL	east	E	correlation coefficient (simple)	r	
millimeter	mm	north	N	covariance	cov	
Weights and measures (English)		south	S	degree (angular)	°	
	cubic feet per second	ft ³ /s	west	degrees of freedom	df	
	foot	ft	copyright	expected value	E	
	gallon	gal	corporate suffixes:	greater than	>	
	inch	in	Company	greater than or equal to	≥	
	mile	mi	Corporation	harvest per unit effort	HPUE	
	nautical mile	nmi	Incorporated	less than	<	
	ounce	oz	Limited	less than or equal to	≤	
	pound	lb	District of Columbia	logarithm (natural)	ln	
	quart	qt	et alii (and others)	et al.	logarithm (base 10)	log
yard	yd	et cetera (and so forth)	etc.	logarithm (specify base)	log ₂ , etc.	
Time and temperature		exempli gratia		minute (angular)	'	
	day	d	(for example)	e.g.	not significant	NS
	degrees Celsius	°C	Federal Information Code	FIC	null hypothesis	H ₀
	degrees Fahrenheit	°F	id est (that is)	i.e.	percent	%
	degrees kelvin	K	latitude or longitude	lat or long	probability	P
	hour	h	monetary symbols		probability of a type I error	
	minute	min	(U.S.)	\$, ¢	(rejection of the null hypothesis when true)	α
	second	s	months (tables and figures): first three letters	Jan,...,Dec	probability of a type II error	
	Physics and chemistry		registered trademark	®	(acceptance of the null hypothesis when false)	β
		all atomic symbols		trademark	™	second (angular)
alternating current		AC	United States		standard deviation	SD
ampere		A	(adjective)	U.S.	standard error	SE
calorie		cal	United States of America (noun)	USA	variance	
direct current		DC	U.S.C.	United States Code	population	Var
hertz		Hz			sample	var
horsepower		hp				
hydrogen ion activity (negative log of)		pH				
parts per million		ppm	U.S. state	use two-letter abbreviations		
parts per thousand	ppt, ‰		(e.g., AK, WA)			
volts	V					
watts	W					

FISHERY DATA SERIES NO. 25-36

**SUBSISTENCE AND PERSONAL USE SALMON HARVESTS IN THE
ALASKA PORTION OF THE YUKON RIVER DRAINAGE, 2024**

by
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ABSTRACT

This annual report provides estimates of subsistence and personal use salmon and nonsalmon fish harvests in the Alaska portion of the Yukon River drainage. Most Yukon Area communities are not required to report their subsistence salmon harvests. For these communities, harvest data were primarily collected through voluntary postseason household interviews, follow-up telephone surveys, mailed questionnaires, and harvest calendars. Households were selected for surveying using stratified random sampling methods. A total of 1,432 households across 33 communities participated in the survey. Data from these households were extrapolated to estimate the total harvest, including that of unsurveyed households. In road-accessible portions of the Yukon Area, harvest must be documented on a subsistence or personal use permit. In 2024, a total of 529 permits were issued, and 98% were returned. Among the returned permits, 247 reported fishing activity. The estimated total subsistence and personal use harvest in the Yukon Area included 1,750 Chinook (*Oncorhynchus tshawytscha*), 32,721 summer chum (*O. keta*), 3,327 fall chum (*O. keta*), 1,426 coho (*O. kisutch*), and 4,166 pink (*O. gorbuscha*) salmon. The primary fishing gear types used were 52% dip net and other gear types, 44% set gillnets, 2% drift gillnets, and 2% fish wheels. Additionally, approximately 1,855 households owned 4,546 dogs, and 98 households fed an estimated 1,934 whole salmon to dogs.

Keywords: Chinook *Oncorhynchus tshawytscha*, chum *O. keta*, coho *O. kisutch*, and pink *O. gorbuscha* salmon, northern pike *Esox lucius*, inconnu *Stenodus leucichthys*, sheefish, whitefish *Coregonus* spp., harvest, personal use, subsistence, Tanana River, Yukon River

INTRODUCTION

The Yukon River is Alaska's largest river and the fifth largest drainage system in North America. Originating in British Columbia, Canada, within a mere 30 miles of the Gulf of Alaska, it stretches over 3,190 km (1,980 mi) through Yukon Territory, Canada, and Alaska, United States, before ultimately reaching the Bering Sea at the Yukon–Kuskokwim Delta. The Yukon Area (5 AAC 05.100) encompasses all waters of the Yukon River drainage in Alaska and coastal waters from Point Romanof southward to the Naskonat Peninsula. Oversight of Alaska's subsistence, personal use, and commercial fisheries within the Yukon Area, including Canadian-origin salmon obligations, falls under the purview of the Alaska Department of Fish and Game (ADF&G) Division of Commercial Fisheries. Details about fisheries management in the Canadian portion of the Yukon River drainage can be found in annual Yukon River Panel Joint Technical Committee (JTC) reports (e.g., JTC 2025).

Since 1961, ADF&G has gathered data on subsistence salmon harvests in the Alaska portion of the Yukon River drainage. These annual estimates serve as a historical record, enabling observation of harvest trends over time. The documentation of subsistence salmon harvests was utilized alongside commercial, sport, and personal use harvest data, as well as escapement estimates from both the U.S. and Canada, to calculate the total annual run size in the Yukon Area (JTC 2025). This harvest and escapement data, combined with age composition information, are employed to construct brood tables. These data estimate the productivity, or the number of returning offspring per spawner, for certain stocks, aiding in the formulation of forecasts and preseason outlooks for fisheries management (e.g., JTC 2025).

The Yukon River drainage supports 5 species of Pacific salmon that contribute to subsistence and personal use harvests: Chinook salmon (*Oncorhynchus tshawytscha*), chum (*O. keta*), coho (*O. kisutch*), pink (*O. gorbuscha*), and sockeye (*O. nerka*) salmon. Subsistence and personal use harvests primarily consist of Chinook, chum, and coho salmon, but the chum salmon return is made up of 2 temporally and genetically distinct stocks: summer chum and fall chum salmon. Chinook and summer chum salmon are the first to enter the Yukon River, peaking in June, followed by fall chum (early August) and coho salmon (mid to late August). Pink salmon peak in

mid-July and are more abundant in even-numbered years, typically being available for harvest only in the coastal, lower, and middle reaches of the Yukon River up to the community of Anvik (river mile 315). Sockeye salmon are present in small numbers in the Yukon River, with an average subsistence harvest of fewer than 400 fish per year (Jallen et al. 2017).

In addition to salmon, the Yukon River hosts numerous other fish species, including both resident and anadromous types. Some of these species, such as whitefish (*Coregonus* species and *Prosopium cylindraceum*), sheefish (*Stenodus leucichthys*, also known as inconnu), burbot (*Lota lota*), northern pike (*Esox lucius*), Alaska blackfish (*Dallia pectoralis*), Arctic grayling (*Thymallus arcticus*), Arctic lamprey (*Lethenteron camtschaticum*), saffron cod (*Eleginus gracilis*, locally referred to as tomcod), and Pacific herring (*Clupea pallasii*), are significant for subsistence use.

Families in the Yukon Area have a longstanding tradition of harvesting salmon for subsistence purposes. Subsistence salmon fishing typically begins in late May and continues through early October, with fishing in May and October dependent on river ice conditions. Extended family groups, representing 2 or more households, often collaborate in harvesting, processing, and preserving salmon for subsistence use. Fishing activities are frequently centered on fish camps or home communities within the drainage. Some households from tributary communities along the Yukon River, such as Shageluk and Venetie, may operate or share fish camps on the mainstem Yukon River. Subsistence-caught salmon are commonly dried, smoked, canned, or frozen for human consumption, and those destined for dogs are usually dried or cribbed (i.e., whole fish air-frozen and stacked).

Yukon Area subsistence and personal use salmon are typically harvested using drift gillnets, set gillnets, and fish wheels. Set gillnets are used throughout the area, and drift gillnets are allowed from the mouth of the Yukon River through District 4, just downriver from the community of Tanana at river mile 681. Alaska regulations for gear were based on traditional practices (5 AAC 01.220 and 5 AAC 77.717). Although fish wheels were permitted for subsistence fishing throughout the drainage, they were predominantly used in the upper portion of the Yukon River, where driftwood availability, river conditions, and fishing locations are more favorable.

Estimates of subsistence and personal use harvests were obtained through a combination of voluntary harvest surveys and mandatory fishing permit reports. Roughly two-thirds of the Yukon Area lacks connection to the main Alaska road system. In these remote areas, voluntary household surveys were conducted in each community to estimate the subsistence harvest. Fishing permits for subsistence or personal use were obligatory in the remaining road-accessible regions of the Yukon Area, including sections of the Koyukuk, Tanana, and upper Yukon Rivers (Figure 1). Harvest records must be submitted annually in permit-required areas.

Within the Fairbanks Nonsubsistence Area established in 1992 (Figure 2), personal use fishing permits and resident sport fish licenses were necessary for participating in the fishery. Nonsubsistence areas were defined in state regulation as regions where subsistence was not a principal characteristic of the economy, culture, and way of life (Alaska Statute 16.05.258(c)). Since 1995, personal use fishing has been open in nonsubsistence areas to all Alaska residents, regardless of their place of residence. The Fairbanks Nonsubsistence Area personal use fishery imposes limits of 750 Chinook and 5,000 chum salmon until August 15, and 5,200 chum and coho salmon combined after August 16.

Alaska law prioritizes subsistence as the highest use of salmon, influencing fishery management decisions. Consequently, commercial, personal use, and sport harvests have a lower priority than

subsistence fishing. A valid limited entry commercial fishing permit is required to participate in commercial fisheries, but any Alaska resident can partake in subsistence salmon fisheries. Income generated from commercial fishing is often utilized by households to procure items associated with subsistence harvesting, such as fuel and fishing equipment. Salmon caught during subsistence openings cannot be legally bought or sold; however, commercially harvested salmon may be retained for subsistence use. In certain areas, subsistence fishing periods are separated from commercial fishing through closures before, during, and after commercial periods, and in others, subsistence and commercial fishing occur simultaneously.

Subsistence-caught salmon are primarily intended for human consumption, although a significant portion was historically fed to dogs. During the active fishing season, households throughout the Yukon Area also feed salmon scraps to dogs. Harvesting whole salmon for sled dog consumption is prevalent in the Upper Yukon Area, where sled dogs are commonly used for recreation and transportation. This practice is less common in the Lower Yukon Area, resulting in fewer whole salmon being fed to dogs there. Information collected about dogs in the household survey project has not been categorized by their use for transportation or as pets. Andersen and Scott (2010) found that salmon accounted for 25% to 92% of all fish species fed to sled dogs among 6 Yukon River communities. However, due to the high value of Chinook salmon for human consumption, a regulation was adopted in 2001 stipulating that only Chinook salmon under 16 inches in length or unfit for human consumption may be fed to dogs (5 AAC 01.240(d)). Most of the subsistence salmon used for dog food are summer chum salmon, dried, and fall chum and coho salmon, usually cribbed. The average number of salmon fed to dogs has declined since the late 1990s, attributable to various factors, including poor chum salmon runs from 1998 to 2002 and, as recently as 2020 to 2024, reduced carcasses from roe fisheries, increased costs of equipment needed for fish harvesting, and a decreased reliance on dogs for transportation.

The subsistence salmon harvest survey and permit programs collected quantitative information about salmon harvests by species. The primary method for estimating subsistence harvest in the Yukon Area was the annual postseason salmon harvest survey. In addition to salmon harvests, the survey gathered data about gear types used, harvest distribution, nonsalmon species harvests, the number of dogs, and the number of salmon fed to dogs. Qualitative information regarding salmon health and quality, subsistence fishing success, and fishery concerns was also obtained from households. Over time, changes have been made to the survey project, including refinements to gear questions estimating by type and mesh size-specific harvests of Chinook and summer chum salmon. This report presents estimates of subsistence and personal use salmon and nonsalmon fish harvests within the Alaska portion of the Yukon River drainage during the 2024 season.

STUDY AREA

The study area encompassed the Yukon Area, including all waters of Alaska within the Yukon River drainage and coastal waters extending from Point Romanof southward to the Naskonat Peninsula (Figure 1). Postseason harvest interviews were conducted in 33 communities located off the road system. Harvests from communities accessible by road on the Yukon (portions of District 5), upper Subdistrict 4-A in the Koyukuk River drainage, and all communities along the Tanana River (District 6) were documented through mandatory fishing permits and therefore are presented differently than the methods used for estimating harvests from household surveys (Figure 1).

The Lower Yukon Area encompasses coastal waters and the Yukon River drainage from its mouth upstream to Old Paradise Village (river mile 301), including management Districts 1–3. The Upper

Yukon Area includes the Yukon River drainage from Old Paradise Village upstream to the Canadian border (river mile 1,224), encompassing management Districts 4–6. Additionally, the Upper Yukon Area includes 3 major tributaries where harvests occur: the Koyukuk, Tanana, and Porcupine Rivers. The Coastal District covers the remaining coastal waters of the Yukon Area not included in District 1 and includes the communities of Scammon Bay and Hooper Bay (Figure 1). Harvests from Coastal District communities may include fish not necessarily bound for the Yukon River (Kerkvliet 1986). The communities of Chevak and Arctic Village were excluded from this harvest survey due to their distance from the Yukon River mainstem and their historically low salmon harvests. In this report, Yukon Area encompasses Districts 1–6 and the Coastal District.

OBJECTIVES

The objectives of the study were as follows:

1. Estimate and record the number of salmon harvested for subsistence and personal use by community, district, and subdistrict in the Yukon Area.
2. Document gear types used in subsistence and personal use fisheries and estimate the percentage of Chinook and summer chum salmon harvested by gear types in surveyed communities.
3. Document and estimate the number of dogs and the amount of salmon fed to dogs within Yukon Area communities.
4. Estimate and record the number of nonsalmon fish species harvested for subsistence and personal use purposes by community, district, and subdistrict.

METHODS

The overall count of salmon harvested in subsistence and personal use fisheries was approximated using data from household surveys, permits for subsistence and personal use, test fishery information provided by research projects, and harvest calendars (Appendix B1). In surveyed communities, data were acquired from designated households and extrapolated to estimate the total community harvest. For communities falling within permit areas, the total harvests reported on returned permits were aggregated, albeit without expansion to adjust for any harvest linked to unreturned permits (see Methods: Permit Program).

HOUSEHOLD SUBSISTENCE SURVEYS

Survey Design

The household harvest survey methodology was based on a stratified random sample design (Cochran 1977). In this design, a household within the community was the primary sampling unit. A household generally consisted of 1 or more people living together in a home and sharing the same phone number or mailing address. Multiple generations living in the same dwelling were considered 1 household. Individuals living in detached but physically related structures were considered part of a household if they participated as a unit in harvesting, processing, and distributing resources and shared contact information.

Under the survey design, each household was stratified into 5 harvest groups based on the average combined total harvest of Chinook, summer chum, fall chum, and coho salmon during the most recent 2 surveys conducted within the previous 5 years. Pink salmon and sockeye salmon harvest

was not considered when assigning households to a harvest group. When 2 recent years of harvest data were unavailable, the household's harvest group designation remained the same as the previous year. If subsistence restrictions were in place during the previous 5 years, a household may have been unable to harvest as many salmon as usual. Restrictions were in place during at least part of the 2018–2023 fishing seasons. As a result, 2024 households may have been moved from a lower harvest group to a higher harvest group but they were not downgraded to a lower harvest group based on their 2018–2023 harvest data. The harvest groups and survey coverages (i.e., percentages of households selected to be surveyed within the group) were as follows:

1. *Unknown*: Unknown harvest level; survey coverage 100%.
2. *Do not fish*: Households that do not harvest salmon; survey coverage 30%.
3. *Light harvester*: Harvest of 1–100 total salmon; survey coverage 30%.
4. *Medium harvester*: Harvest of 101–500 total salmon; survey coverage 100%.
5. *Heavy harvester*: Harvest of more than 500 total salmon; survey coverage 100%.

There are several exceptions to this sampling strategy by design. Due to the large numbers of test fishery catches donated to the communities of Emmonak and Pilot Station, and the historically large subsistence harvests in Tanana and Holy Cross, sampling rates in the *light harvester* and *do not fish* groups increased to 50%. Additionally, when a harvest group contained 5 or fewer households, all households in that group were selected (100% coverage). Last, if a community had fewer than 40 households, all households were included in the survey (100% coverage).

A portion of *do not fish* households are surveyed each year to accurately represent all types of households in the sample and to maintain accuracy in the household database and strata. The household stratification was updated prior to the survey and was not restratified during or after the survey, except for the *unknown* harvest group. New households (e.g., moved into the community, formation of households due to marriage, or independence) that were discovered prior to or during the survey were classified as *unknown*.

Survey Questionnaire

Digital survey forms were used to provide additional options for data collection, enhance efficiency, and minimize data entry errors (Appendix B3). ArcGIS Survey123 was utilized to create a comprehensive digital version of the survey. Additionally, a web-based survey was made available online to allow households the opportunity to self-administer the survey. A paper mail survey, along with a letter containing a link to the web survey and a unique survey ID for accessing it, was sent to every household unreachable in person or by telephone. Furthermore, the web survey link was advertised on the ADF&G Facebook page along with community flyers to promote its accessibility.

The total number of salmon harvested was determined by asking households about their group harvests, the harvest area, and the salmon retained. Starting in 2020, households were not directly asked whether they retained salmon from a commercial fishery. Instead, they were prompted to confirm all harvests, including salmon retained from commercial sources, fish intended for dog food, shared with other families, or lost. If a household reported a portion of their subsistence catch as lost, surveyors verified that these fish were included in the total harvest. If the fish were utilized as dog food, they were allocated to questions pertaining to dog food, even if the original intent differed. Households were also asked about their primary gear (i.e., the gear that caught the most

fish) and whether they used a secondary gear type. If a household harvested Chinook or summer chum salmon, they were asked about the gear types and mesh size used for each species (Appendix B3).

To ascertain the distribution of salmon within a community and corroborate responses from related households, the survey included inquiries about group harvests and shared harvests. Additionally, households were asked about the number of salmon received from subsistence or test fishery harvests to validate the accuracy of harvest reports between recipients and donors.

Further demographic and clarifying questions were posed, including the number of people in the household, the number of dogs, and the harvest of nonsalmon species throughout the preceding 12 months. For instance, households reported harvesting Arctic lamprey during October–December 2023 or sheefish in May 2024, during the survey interviews in September 2024. Responses regarding quantities of fish harvested in relation to the herring question were recorded as herring; however, this category encompassed misidentified species such as rainbow smelt (*Osmerus mordax*) or capelin (*Mallotus villosus*). Only households in coastal and lower river communities were questioned about harvesting herring roe on kelp. Surveyors made 3 attempts to contact households to ascertain whether additional harvests occurred, and surveys were updated accordingly.

Survey Implementation

Participation in survey interviews was voluntary, and confidentiality regarding household harvest information was strictly maintained throughout the process. The interviews were strategically scheduled, starting in the Coastal District and Lower Yukon Area in September and moving upstream to Grayling, with subsequent interviews conducted in communities upstream of Grayling in October. This chronological sequence ensured comprehensive coverage of the salmon harvest season by community (Figure 1). The interviews were primarily conducted by 2 ADF&G technicians to uphold consistency across all survey activities.

Before conducting interviews, surveyors underwent comprehensive training in interviewing techniques and were briefed on current fishery issues to ensure they were well-prepared to engage effectively with household members. Surveyors were trained to ask questions consistently and create a cooperative atmosphere conducive to increased information recall. Additionally, community residents employed by Yukon River Drainage Fisheries Association (YRDFA) were instrumental in updating household lists and community information documents, further enhancing the efficiency and accuracy of the survey process. In instances where these residents were unavailable, surveyors collaborated with local sources such as tribal administrators or school principals to gather contact information for household members.

During community visits, household lists were updated to reflect any changes, including relocations, deaths, or the formation of new households. Local community members played a crucial role in assisting with this task. Moreover, additional sources, such as cooperation with other agencies and the use of phone directories and online resources such as tribal and corporation websites, were utilized to maintain and update these household lists. The 2024 lists were developed based on information collected in 2023, ensuring continuity and accuracy in the survey data.

The timing of the interviews was planned for September and October, coinciding with the conclusion of salmon fishing activities, which facilitated easier recall of harvest numbers. Surveyors made attempts to contact selected households, making at least 3 attempts before

resorting to mail surveys. These mail surveys contained concise versions of the household survey focused specifically on individual household harvests, thereby ensuring comprehensive data collection, even from households initially unreachable by phone.

Following the interviews, editing of digital survey data was conducted to ensure clarity and completeness, thereby guaranteeing the accuracy of the final dataset. Notably, when harvest amounts were reported in nonstandard terms, a conversion sheet based on local measures was used to accurately estimate the number of fish harvested. Furthermore, follow-up calls were occasionally made to clarify information or reconcile discrepancies among households that harvested or shared salmon, thereby enhancing data consistency and reliability.

DATA ANALYSIS AND ESTIMATION METHODS

Denote that:

- i = individual household,
- j = harvest group ($j = 1 \dots 5$),
- k = community,
- l = harvest location,
- m = harvest gear, and
- a = specific attributes.

Survey responses were denoted by:

- y_{ijkl} = the number of fish (e.g., Chinook, chum, coho, pink, whitefish, sheefish, northern pike) harvested by sampled household (i) in harvest group (j) of community (k), at location (l),
- y_{ijkm} = the number of Chinook or summer chum salmon harvested by sampled household (i) in harvest group (j) of community (k) with fishing gear (m),
- y_{ijk} = response of sampled household (i) in harvest group (j) of community (k),
- n_{jk} = the number of sampled households in harvest group (j) of community (k),
- $n_{kj(a)}$ = the number of sampled households having a specific attribute (a) in harvest group (j) of community (k),
- N_{jk} = the total number of households in harvest group (j) of community (k), and
- N_k = the total number of households in surveyed community (k).

Estimates of Population and Harvests

The following equations were used to estimate populations (the number of people and dogs), harvests (the number of fish harvested by subsistence fisheries), and uses of salmon harvested (kept for household use, given away, or fed to dogs). In this method, total numbers for each community (Y_k) were estimated by expanding mean responses (\bar{y}_{jk} ; e.g., the number of people or harvest) of sampled households at each harvest group with total number of households in each harvest group (N_{jk}), and summing across the harvest groups as:

$$\hat{Y}_k = \sum_{j=1}^5 N_{jk} \bar{y}_{jk} \quad \text{where} \quad \bar{y}_{jk} = \frac{\sum_i y_{ijk}}{n_{jk}} \quad (1)$$

A 95% confidence interval (95% CI) for the population and harvest were calculated as:

$$95\%CI_k = t_{(0.025, df=n_k-1)} \cdot \sqrt{\hat{V}(\hat{Y}_k)} \quad (2)$$

$$\text{where} \quad \hat{V}(\hat{Y}_k) = \sum_{j=1}^5 N_{jk}^2 V(\bar{y}_{jk}) \quad \text{and} \quad V(\bar{y}_{jk}) = \left(\frac{N_{jk} - n_{jk}}{n_{jk}} \right) \frac{\sum_j (y_{ijk} - \bar{y}_{jk})^2}{n_{jk}(n_{jk} - 1)}$$

When responses of a harvest group(s) were not collected (e.g., no households were surveyed or if surveyed households declined to answer), the response of the harvest group(s) of a community (\bar{y}_{jk}) was treated as missing. In this case, the response of the missing harvest group was assumed to be an average of the rest of the harvest groups, such that the total response of the community (\hat{Y}_k) was calculated as:

$$\hat{Y}_k = \frac{N_k}{\sum_{j=1} N_{jk}} \sum_{j=1} N_{jk} \bar{y}_{jk} \quad (3)$$

A 95% confidence interval (95% CI_k) for the total response of the community was calculated as:

$$95\%CI_k = t_{(0.025, df=n_k-1)} \cdot \sqrt{\hat{V}(\hat{Y}_k)} \quad \text{where} \quad \hat{V}(\hat{Y}_k) = \left(\frac{N_k}{\sum_{j=1} N_{jk}} \right)^2 \sum_{j=1} N_{jk}^2 V_{jk}(\bar{y}_{jk}) \quad (4)$$

Because estimates of the responses in each community were independent and mutually exclusive, the estimate of surveywide total (\hat{Y}) was calculated as:

$$\hat{Y} = \sum_{k=1}^5 \hat{Y}_k \quad (5)$$

A 95% confidence interval (95% CI) for the surveywide total was calculated as:

$$95\%CI = t_{(0.025, df=n-1)} \cdot \sqrt{\hat{V}(\hat{Y})} \quad \text{where} \quad \hat{V}(\hat{Y}) = \sum_{k=1} \hat{V}(\hat{Y}_k) \quad (6)$$

Harvest estimates by harvest group were not presented for reasons of confidentiality.

Estimates of the Number of Households with a Specific Attribute

Equations 7 and 8 were used to estimate the number of households with the following specific attributes (a): subsistence fished, owned dogs, or fed whole salmon to their dogs. In this method, the number of households in a community with the above attribute ($\hat{N}_{k(a)}$) was estimated by expanding the proportion of sampled households having the above attribute ($p_{jk(a)}$), with the total number of households in each harvest group and summing across the harvest groups.

$$\hat{N}_{k(a)} = \sum_{j=1}^5 N_{jk} p_{jk(a)} \quad \text{where} \quad p_{jk(a)} = \frac{n_{jk(a)}}{n_{jk}} \quad (7)$$

A 95% confidence interval (95% CI_k) for the number of households with a specific attribute was calculated as:

$$95\%CI_k = t_{(0.025, df=n-1)} \cdot \sqrt{\hat{V}(\hat{N}_{k(a)})} \quad \text{where} \quad \hat{V}(\hat{N}_{k(a)}) = \sum_{j=1}^5 N_{jk}^2 V(p_{jk(a)}) \quad (8)$$

$$V(p_{jk(a)}) = \left(\frac{N_{jk} - n_{jk}}{N_{jk}} \right) \left(\frac{p_{jk(a)}(1 - p_{jk(a)})}{n_{jk} - 1} \right)$$

Correction for the missing harvest groups and total number of households with each characteristic in the survey ($\hat{N}_{(s)}$) and its 95% confidence interval (95% CI) were calculated using Equations 3, 4, 5, and 6.

Estimates of Primary Gear Type Usage by Community

Estimates of primary gear type usage were calculated using information from a subset of households that had the attribute subsistence fished (s). The number of households that used a specific primary gear (e.g., gillnet, fish wheel) for subsistence fishing was estimated by expanding the proportion of sampled households that used a specific gear type (m) for subsistence fishing ($\hat{q}_{jkm(s)}$) with the proportion of households that subsistence fished ($p_{jk(s)}$) by Equation 7 and total households in each harvest group and summing across the harvest groups:

$$\hat{N}_{km(s)} = \sum_j N_{jk} p_{jk(s)} q_{jkm(s)} \quad \text{where} \quad q_{jkm(s)} = \frac{n_{jkm(s)}}{n_{jk(s)}} \quad (9)$$

A 95% confidence interval (95% CI_k) for the number of households using a specific gear was estimated as:

$$95\%CI_k = t_{(0.025, df=n_k-1)} \cdot \sqrt{\hat{V}(\hat{N}_{km})} \quad (10)$$

$$\hat{V}(\hat{N}_{km(s)}) = \sum_{j=1}^5 N_{jk}^2 V(p_{jkm(s)})$$

where

Variance of proportion for households that subsistence fished was calculated following Goodman (1960):

$$V(p_{jkm(s)}) = (p_{jk(s)})^2 V(q_{jkm(s)}) + (q_{jkm(s)})^2 V(p_{jk(s)}) - V(q_{jkm})V(p_{jk(s)})$$

$$V(q_{jkm(s)}) = \frac{q_{jkm(s)} \cdot (1 - q_{jkm(s)})}{n_{jk(s)} - 1}$$

where

(11)

Correction for the missing harvest groups and total number of households with each characteristic in the survey ($\hat{N}_{(s)}$) and its 95% confidence interval (95% CI) were calculated using Equations 3, 4, 5, and 6.

Estimates of Salmon Harvest by Gear Type or Location

The harvest of Chinook and summer chum salmon was further estimated by harvest gear or mesh size (m ; e.g., 6-inch, 7.5-inch, fish wheel, etc.) and by fishing location (l ; i.e., district, subdistricts, or river drainage where fish were caught). In these estimations, l and m are interchangeable depending on which is being estimated. The number of salmon harvested at each community (\hat{Y}_{km}) was estimated by expanding the proportion of salmon harvested by sampled households (\hat{p}_{jkm}) with each gear type or location (m or l) within a harvest group (j) with mean harvest (\bar{y}_{jk}) estimated in Equation 1 and total number of households in each harvest group (N_{jk}), and summing across the harvest groups:

$$\hat{Y}_{km} = \sum_{j=1}^5 N_{jk} \bar{y}_{jkm}$$

$$\bar{y}_{jkm} = \bar{y}_{jk} p_{jkm}$$

$$p_{jkm} = \frac{\sum_i y_{ijkm}}{\sum_i \sum_m y_{ijkm}}$$

where

(12)

A 95% confidence interval (95% CI_k) for the gear or location-specific Chinook and summer chum salmon harvest was estimated as:

$$95\%CI_k = t_{(0.025, df=n_k-1)} \cdot \sqrt{\hat{V}(\hat{Y}_{km})}$$

$$\hat{V}(\hat{Y}_{km}) = \sum_{j=1}^5 N_{jk}^2 V(\bar{y}_{jkm})$$

where

(13)

Variance of mean harvest by gear type or location was calculated following Goodman (1960):

$$V(\bar{y}_{jkm}) = (\bar{y}_{jk})^2 V(p_{jkm}) + (p_{jkm})^2 V(\bar{y}_{jk}) - V(p_{jkm})V(\bar{y}_{jk})$$

$$V(p_{jkm}) = \frac{p_{jkm} \cdot (1 - p_{jkm})}{\sum_i \sum_m y_{ijkm} - 1}$$

where

(14)

Correction for the missing harvest groups and total number of households with each characteristic in the survey (\hat{Y}_m) and its 95% confidence interval (95% CI) were calculated using Equations 3, 4, 5, and 6. Harvests by harvest group were not presented for reasons of confidentiality.

Unexpanded Totals

The reported harvest of Alaska blackfish, Arctic char, Arctic grayling, Arctic lamprey, burbot, Pacific herring, tomcod or saffron cod, and roe on kelp remained unexpanded due to harvest data and project design constraints.

Confidentiality

The harvests from the communities of Huslia and Hughes, Allakaket and Alatna and Bettles, Venetie and Chalkyitsik, Rampart and Stevens Village, Fort Yukon and Birch Creek, Circle and Central, and Nenana and Healy were consolidated, partly to uphold the confidentiality of smaller communities. These communities were grouped based on their proximity and shared fishing areas. Combined harvests and confidence intervals were computed using the equations detailed in the Methods: Data Analysis and Estimation Methods.

SUBSISTENCE HARVEST CALENDAR PROGRAM

Subsistence harvest calendars were mailed to households in communities included in the Yukon Area surveys to collect daily harvest data. These calendars were distributed before the salmon fishing season commenced. Additionally, households previously identified outside of surveyed communities, but engaged in subsistence fishing beyond permit areas, also received these calendars. The purpose was to enhance the accuracy of harvest reporting and offer insights into harvest timing.

In May 2024, calendars were mailed to households, excluding those designated as nonfishing. Before community surveys commenced, flyers were disseminated to post offices, stores, schools, and city offices, reminding them to have harvest calendars ready for pickup during the household interviews. Households returning a duly completed 2024 harvest calendar by January 1, 2025, stood a chance to win 1 of 12 prizes, valued at \$50. This initiative aimed to ensure a comprehensive collection of harvest data from the surveyed communities (Appendix B1).

PERMIT PROGRAM

Subsistence and personal use permits were obtainable from ADF&G offices in Fairbanks, Delta Junction, and Tok. Permit applications were sent to permit holders from the previous year with a postage-paid return envelope. Since 2018, permits have been accessible online through the ADF&G website.

Permit holders were obliged to log their daily fish catch on the permit and return it to ADF&G within 10 days of its expiration date. Harvests recorded on permits were tallied, but not extrapolated, aiming for a return rate exceeding 95%. Various methods were employed to prompt permit returns, including advisory and radio announcements. Additionally, nonreporting households received up to 2 reminder letters, followed by contact via telephone or email if necessary. Subsequent follow-up calls were made to clarify harvest details, gear types, and harvest locations by species.

Households fishing in multiple permit areas were counted only once to determine the total number of fishing households. Additionally, households permitted to harvest northern pike in the Tolovana

River were excluded from the total number of salmon fishing households unless they also harvested salmon. Due to the location between the survey and permit areas, Stevens Village was included in the annual household harvest survey. However, permit data may have been used to supplement the survey.

Permit holders in the upper portion of Subdistrict 5-D were required to indicate their daily fishing location as above or below the sonar project near the community of Eagle. This distinction was vital for deducting harvests above the sonar from the sonar estimate to determine U.S./Canada border passage for Chinook and fall chum salmon. Similarly, permits for the northern pike fishery in the Tolovana River drainage contain fishing locations to differentiate between fishing inside or outside of the Chatanika Harvest Area (CHA).

RESULTS

OVERALL ESTIMATION OF HARVEST

An estimated 1,750 Chinook, 32,721 summer chum, 3,327 fall chum, 1,426 coho, and 4,166 pink salmon were harvested for subsistence and personal use by 733 households in the Yukon Area (Table 1). These totals include harvests from the subsistence fishery (survey estimates, subsistence permits, test fishery donations, and funerary permits) as well as the personal use fishery.

The subsistence fishery accounted for nearly 100% of the total harvest, with approximately 43,372 salmon caught. This includes 1,750 Chinook, 32,703 summer chum, 3,327 fall chum, 1,426 coho, and 4,166 pink salmon and excludes small numbers of sockeye salmon (Table 1; Figure 3; Appendices C1–C5). Chinook salmon made up 4% of the total subsistence salmon harvest. Summer chum accounted for 75%, fall chum 8%, coho 3%, and pink salmon 10% (Figure 3; Appendix A1). The personal use fishery contributed to the total harvest in 2024, with 18 summer chum salmon reported (Appendix B11). Overall, the personal use fishery accounted for 0.04% of the total salmon harvest.

OVERALL GEAR USAGE

The number of households that reported primary gear types used to harvest all salmon species included 383 dip net or other gears (52%), 322 set gillnets (44%), 16 drift gillnets (2%), 11 fish wheels (2%; Table 2).

For households that harvested Chinook salmon in surveyed communities, 466 (54%) were caught using 4-inch gillnets, 243 (28%) with fish wheels, 75 (9%) with dip nets, beach seines or other gears, 45 (5%) with 7.5-inch gillnets, and 30 (4%) using 6-inch gillnets (Appendix A5; excluding commercial and test fishery donations).

For households that harvested summer chum salmon in surveyed communities, 16,528 (55%) were caught using dip nets, beach seines, or other gear types, 11,546 (38%) in 4-inch gillnets, 1,447 (5%) in 6-inch gillnets, and 795 (2%) harvested in fish wheels (Appendix A6).

Among the 48 households with subsistence permits, 36 used set gillnets, 9 used other gears, and 3 used fish wheels (Table 2). For the 6 households that fished with personal use permits, 2 used a set gillnet, and 4 used other gears as their primary gear (e.g., dip net). These data do not include 189 households that fished in the Tolovana River northern pike fishery, which primarily used jigging gear, or the 2 household(s) that fished in more than 1 permit area to prevent duplicated counts (Table 3).

SALMON HARVEST FOR DOG FOOD

An estimated total of 1,934 summer chum, fall chum, coho, and pink salmon were used as dog food by both subsistence and personal use households combined (Table 4; Appendix C6). Among subsistence harvests in the Yukon Area, approximately 4% of salmon were fed to dogs.

Subsistence households owned an estimated 4,509 dogs, with 97 households reporting feeding 1,934 subsistence-caught salmon to their dogs (Table 4). Personal use permit households (1) owned 37 dogs, but no salmon harvest was reported for them. Dog-related information is not required on Tolovana River area pike permits.

SUBSISTENCE SURVEYS

A total of 1,874 households were selected for surveying from the 2,862 households identified within 33 Yukon Area communities (Table 5). ADF&G Commercial Fisheries staff conducted surveys across all communities between September 5 and November 15, 2024, and phone surveys were conducted through December.

Among the households surveyed, 70 (4.9%) traveled to the Yukon River to fish in or near surveyed communities but resided outside them. In total, data were collected from 1,432 households, representing 50% of all identified households in the survey area (Table 5).

Overall, 76% of selected households were successfully surveyed in 2024. This included 54% of *unknown* households, 85% of *do not fish* households, 95% of *light harvester* households, 79% of *medium harvester* households, and 86% of *heavy harvester* households (Appendix A7). Based on survey responses, an estimated 678 households participated in the subsistence fishery in 2024 (Table 5).

Harvest by Location

Households did not always harvest fish in the district where their community was located. As a result, the total estimated from a community's district did not always align with the total from the harvest district (Table 6). Households made this choice to take advantage of harvest opportunities for different salmon stocks or types of legal gear. The highest number of Chinook salmon was harvested in the Coastal District (35%). Most summer chum and pink salmon (29% and 49% respectively) were harvested in District 1. Most fall chum salmon (60%) were harvested in District 5 (sum of harvests from Subdistricts 5-A, 5-B, 5-C, and 5-D), and most coho salmon (34%) were harvested in District 4.

The largest tributary harvests for all salmon species combined came from the Koyukuk (178 salmon) and Teedriinjik (106 salmon) Rivers. Harvests from Subdistricts 4-C and 5-A are believed to primarily include salmon oriented toward the Tanana River (Buklis 1981; Spearman and Miller 1997). In 2024, those harvests were estimated to be 583 fall chum salmon (Table 6).

Note that the sum of community harvests by location may not align with community harvest estimates in other tables due to rounding of estimates. Salmon harvests by location were estimated with error (Appendix A8).

Test Fishery Donations and Funerary permit harvest

In addition to subsistence fishing, some households received salmon through other means. A total of 9 surveyed communities (Nunam Iqua, Alakanuk, Emmonak, Kotlik, Mountain Village, Pilot Station, Tanana, Stevens Village/Rampart, and Fort Yukon/Birch Creek) received salmon from

test fishery projects, which were included in community harvest estimates (Table 1; Appendix A2). Salmon caught in test fisheries accounted for 30% of the total Chinook salmon subsistence harvest but made up 55% of the subsistence Chinook salmon harvest from communities that received test fishery donations. Summer chum, fall chum, and coho salmon from 6 test fisheries contributed 6%, 49%, and 15%, respectively, of the subsistence harvest from surveyed communities (Table 1; Appendix A2).

Funerary permits were issued to 4 communities (Nunam Iqua, Koyukuk, Galena, and Ruby) to facilitate the harvest of salmon used in ceremonial potlatches. These salmon harvests were added to the respective communities. In 2024, a total of 32 Chinook and 15 summer chum salmon were harvested by funerary permit holders (Table 1; Appendix A3).

Nonsalmon Fish Species

The estimated subsistence harvest of other fish species in Yukon Area surveyed communities included 6,519 broad whitefish, 10,206 humpback whitefish, 11,313 small whitefish, 17,556 northern pike, and 7,948 sheefish (Table 7). The majority of estimated sheefish (45%) were harvested by District 1 households, and most small whitefish (39%) were harvested by Coastal District households. Small whitefish include least cisco, Bering cisco, and round whitefish (Table 7).

Unexpanded harvest estimates were produced for 3 resident, 2 marine, and 1 anadromous nonsalmon species. Resident freshwater species, such as Alaska blackfish, burbot, and Arctic grayling, are found throughout the Yukon River drainage; however, they were not harvested within the drainage (Table 8). Marine species, such as Pacific herring and tomcod, were only available to communities located near the coast, such as the Coastal District and Districts 1–2. In the Coastal District and District 1, 16 interviewed households also reported harvesting 838 pounds of herring roe. Households also reported harvesting 14,568 Arctic lamprey for subsistence purposes primarily in Districts 2–3, between the communities of Mt. Village and Russian Mission (Table 8).

Survey Comments

At the end of each survey, households were invited to share any additional comments related to fishing that they thought were important. The largest category of comments (456 responses) focused on dissatisfaction with management, such as a desire for longer or more frequent subsistence openings. The second most common set of comments (66 responses) addressed conserving salmon or mentioning of efforts to conserve. The third largest group of comments (40 responses) mentioned satisfaction with management actions. The fourth largest group, concerning dissatisfaction with the salmon run sizes (29 responses), also provided valuable feedback. The fifth most frequent topic was equipment-related issues, such as boats or nets (18 responses). Additionally, 6 households brought up issues related to expenses. Concerns about diseases in harvested fish, including reports of tumors, pus, or tapeworms, were mentioned by 4 households. Several households (5 responses) reported that river conditions, such as high water levels and drift, as well as poor weather affected their fishing activities. Other comments included mention of fish being lost to animals (1 response).

PERMITS

Subsistence Permits

The subsistence permit harvest information for 2024 was based on permits returned by March 10, 2025 (Tables 3 and 9–10). Subsistence fishing permits were required in upper Subdistrict 4-A (Koyukuk River drainage), District 5 (Yukon River), and District 6 (Tanana River). Of the 494 subsistence permits issued, 486 (98%) were returned, and 239 reported subsistence fishing for both salmon and nonsalmon species (Table 3). The total subsistence harvests included 338 Chinook, 254 summer chum, 100 fall chum, and 29 coho salmon. In addition, the harvest of other fish species included: 2,103 whitefish, 159 sheefish, 61 burbot, 2,564 northern pike, 155 longnose suckers, and 6 Arctic grayling (Table 9; Appendices C7–C12).

Personal Use Permits

In 2024, all 35 of the personal use permits issued were returned (Table 3). Harvest was reported on 8 personal use fishing permits, including 2 permits issued for salmon and 6 permits issued for nonsalmon species. Personal use permit holders reported harvesting 18 summer chum salmon (Table 9). The total harvest of nonsalmon fish species included: 7 whitefish and 58 longnose suckers (Table 9; Appendix C12).

Harvest Timing from Calendar and Permit Data

The subsistence calendar and permits, which tracked daily harvests, help illustrate the timing of harvests within parts of the Yukon Area. In 2024, 123 harvest calendars were returned, representing approximately 6% of those distributed. Of the returned calendars, 38 (31%) included information about salmon harvests. The rest either indicated no fishing or were returned blank, making up 69% of the responses. When combining permit and calendar data in 2024, the data show similar harvest timing between the Coastal District and Districts 1–3, with most harvests reported between late May and July. District 4 reported small harvests from June through August. District 5 reported harvests mainly from mid-June through July, with reduced fishing during the 4-inch gillnet closure in July, and less activity continued into the fall season. In District 6, harvests were relatively steady from May through October, with a noticeable increase in July (Figure 4).

DISCUSSION

In 2024, fishing restrictions were enacted in the Yukon Area to protect Chinook, summer chum, and fall chum salmon runs for escapement. These restrictions affected both fishing time and gear usage (Olson and Borba 2025; Jallen 2024). The total subsistence salmon harvest in 2024 (including Chinook, chum, coho, and pink salmon) was approximately 36% below the average for the years 2019 to 2023, and 79% below the average from 2014 to 2018 (Figure 3). These averages include years with fishing restrictions (Figures 3 and 5).

In particular, the 2024 Chinook salmon harvest in the Yukon River decreased by 88% compared to the 2019–2023 average and was 91% below the 2014–2018 average (Figure 3; Appendix C1). The 2024 harvest of summer chum salmon increased by 18% compared to the average from 2019 to 2023 (Figure 3; Appendix C2). In 2024, a harvestable surplus of summer chum salmon was identified as projections indicated the drainagewide escapement goal would be achieved. Households that could take advantage of the selective gear opportunity resulted in an increase from previous years. In contrast, the 2024 harvests of fall chum salmon decreased by 79% and coho salmon decreased by 35% over the same period. (Figure 3; Appendices C3–C4). The total pink

salmon harvest in 2024 was above the average for the even years from 2012–2022 (Figures 3 and 5; Appendix C5).

AMOUNTS NECESSARY FOR SUBSISTENCE

The amounts necessary for subsistence (ANS) ranges for the Yukon Area are as follows: Chinook (45,500–66,704), summer chum (83,500–142,192), fall chum (89,500–167,900), coho (20,500–51,980), and pink salmon (2,100–9,700). These ranges were established in 2001 for Chinook, summer and fall chum, and coho salmon, based on subsistence harvest data from 1990 to 1999 (excluding 1993 and 1998 due to fall season restrictions; ADF&G 2001). The ANS range for pink salmon was established in 2013 (Brown and Jallen 2012). Initially developed as an index to ensure reasonable opportunity in the subsistence fishery, the ANS ranges serve as a measure of subsistence fishery provision and exclude personal use harvests. In 2024, Chinook, summer chum, fall chum, and coho salmon harvests fell below their respective ANS. Pink salmon met ANS in 2024 (Figure 5).

Subsistence harvests have historically included a significant portion of salmon, often used as dog food. The failure to meet ANS levels may be partially attributed to shifts in the utilization of subsistence salmon and a decrease in the number of dogs, as well as less reliance on salmon for this purpose. Between 1992 and 1999, an average of 190,612 chum and coho salmon annually went to feed dogs (Borba and Hamner 2001). In contrast, from 2019 to 2023, an average of 5,063 chum, coho, and pink salmon were fed to dogs each year (Appendix C6). In recent years, poor chum salmon runs have limited fishing opportunities and contributed to the decline. Fluctuations in the number of salmon fed to dogs were also probably influenced by alternative food sources, such as nonsalmon fish species, meat, or commercial dog food, as well as variations in dog populations.

NONSALMON FISH SPECIES

The harvest estimates for nonsalmon fish species from this project offer valuable insights, although it is likely that the reported values are underestimated. Because the project’s framework is primarily designed for salmon harvesters, the data collected on nonsalmon species has been crucial for documenting harvest locations and identifying species important to Yukon Area communities. In 2024, the combined total harvest of nonsalmon fish species from surveys and permits was 19% lower than the average harvest from 2019–2023 (Appendix C13). Over the years of strict salmon fishing restrictions, total nonsalmon harvests have generally declined—probably due to fewer participants on the water compared to the past. However, nonsalmon harvests have increased in proportion relative to salmon, because they continue to serve as an important dietary source of fish (Appendix C14).

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REFERENCES CITED

- ADF&G (Alaska Department of Fish and Game). 2001. 2001 Yukon Area subsistence, personal use, and commercial salmon fisheries outlook and management strategies. Alaska Department of Fish and Game, Division of Commercial Fisheries, Regional Information Report No. 3A01-16, Anchorage.
- Andersen, D. B., and C. L. Scott. 2010. An update on the use of subsistence-caught fish to feed sled dogs in the Yukon River drainage, Alaska. Final report to the U.S. Fish and Wildlife Service for Fisheries Resource Monitoring Project 08-250, Anchorage.
- Borba, B. M., and H. H. Hamner. 2001. Subsistence and personal use salmon harvest estimates, Yukon Area, 2000. Alaska Department of Fish and Game, Division of Commercial Fisheries, Regional Informational Report No. 3A01-27, Anchorage.
- Brown, C., and D. Jallen. 2012 Options for amounts reasonably necessary for subsistence uses of salmon: Yukon Management Area; prepared for the January 2013 Anchorage Alaska Board of Fisheries meeting. Alaska Department of Fish and Game, Division of Subsistence Special Publications No. BOF 2012-08, Fairbanks.
- Buklis, L. S. 1981. Yukon and Tanana River fall chum salmon tagging study, 1976-1980. State of Alaska, Department of Fish and Game, Division of Commercial Fisheries, Informational Leaflet No. 194, Juneau.
- Cochran, W. G. 1977. Sampling techniques, third edition. John Wiley and Sons, New York.
- Goodman, L. A. 1960. On the exact variance of products. Journal of American Statistical Association. 55:709-13.
- Olson, M., and B. Borba. 2025. 2024 Yukon Area fall season summary. Alaska Department of Fish and Game, Division of Commercial Fisheries, News Release, Juneau, AK. [issued January 24, 2025; cited March 11, 2025]. Available from: <https://www.adfg.alaska.gov/static/applications/dcfnewsrelease/1652059774.pdf> (accessed July 22, 2025).
- Jallen, D. M. 2024. 2024 Yukon River summer season summary. Alaska Department of Fish and Game, Division of Commercial Fisheries, Advisory Announcement, Juneau, AK. [issued December 20, 2024; cited March 11, 2025]. Available from: <https://www.adfg.alaska.gov/static/applications/dcfnewsrelease/1648113352.pdf> (accessed July 22, 2025).
- Jallen, D. M., S. K. S. Decker, and T. Hamazaki. 2017. Subsistence and personal use salmon harvests in the Alaska portion of the Yukon River drainage, 2013. Alaska Department of Fish and Game, Fishery Data Series No. 17-08, Anchorage.

REFERENCES CITED (Continued)

- JTC (Joint Technical Committee of the Yukon River Panel). 2025. Yukon River salmon 2024 season summary and 2025 outlook. Yukon JTC (25)-01. Pacific Salmon Commission, Vancouver, BC, Canada. Available from [Yukon River Joint Technical Committee Reports | Yukon River Panel](#) (accessed July 22, 2025).
- Kerkvliet, C. M. 1986. 1986 Hooper Bay salmon tagging study. Bering Sea Fishermen's Association, Anchorage.
- Spearman, W. J., and S. J. Miller. 1997. Genetic stock identification of chum salmon (*Oncorhynchus keta*) from the Yukon River District 5 subsistence fishery. Fish Genetics Laboratory, U.S. Fish and Wildlife Service, Alaska Fisheries Technical Report No. 40, Anchorage.

TABLES AND FIGURES

Table 1.—Subsistence and personal use salmon harvest estimates, including commercially related, test fishery, and funerary permit harvests provided for subsistence use, Yukon Area, 2024.

Community	Number of fishing households ^a	Estimated salmon harvest				
		Chinook	Summer chum	Fall chum	Coho	Pink
Hooper Bay	68	136	3,888	32	58	967
Scammon Bay	69	163	4,654	143	125	759
Coastal District total	137	299	8,542	175	183	1,726
Nunam Iqua ^{b, c}	15	43	546	32	0	23
Alakanuk ^b	71	38	3,321	171	68	886
Emmonak ^b	66	35	5,715	754	71	558
Kotlik ^b	24	11	560	37	184	357
District 1 subtotal	176	127	10,142	994	323	1,824
Mountain Village ^b	63	58	2,106	504	132	330
Pitkas Point	18	4	358	0	0	0
St. Mary's	68	23	1,854	0	61	233
Pilot Station ^b	49	206	3,915	387	95	27
Marshall	40	24	2,232	35	1	0
District 2 subtotal	238	315	10,465	926	289	590
Russian Mission	38	7	1,091	131	158	2
Holy Cross	ND	ND	ND	ND	ND	ND
Shageluk	ND	ND	ND	ND	ND	ND
Other District 3 ^d	0	0	0	0	0	0
District 3 subtotal	38	7	1,091	131	158	2
Lower Yukon River total	452	449	21,698	2,051	770	2,416
Anvik	4	7	167	6	4	24
Grayling	ND	ND	ND	ND	ND	ND
Kaltag	6	0	4	0	3	0
Nulato	ND	ND	ND	ND	ND	ND
Koyukuk ^c	ND	ND	ND	ND	ND	ND
Galena ^c	16	20	601	0	399	0
Ruby ^c	ND	ND	ND	ND	ND	ND
Other District 4 ^e	4	25	14	0	0	0
District 4 Yukon River subtotal	30	52	786	6	406	24
Huslia/ Hughes	11	0	1,222	0	0	0
Allakaket/Alatna/Bettles	7	0	92	0	0	0
Koyukuk River subtotal	18	0	1,314	0	0	0
District 4 subtotal	48	52	2,100	6	406	24

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Table 1.–Page 2 of 2.

Community	Number of fishing households ^a	Estimated salmon harvest				
		Chinook	Summer chum	Fall chum	Coho	Pink
Tanana ^b	9	145	107	895	38	0
Rampart/Stevens Village ^{b, f, g}	2	55	10	0	0	0
Fairbanks (FNSB) ^{f, h}	13	267	41	0	5	0
Beaver	ND	ND	ND	ND	ND	ND
Fort Yukon/Birch Creek ^b	7	364	1	0	0	0
Circle/Central ^f	1	17	0	0	0	0
Eagle ^f	4	32	0	30	0	0
Other District 5 ^{f, i}	5	13	11	0	0	0
District 5 Yukon River subtotal	41	893	170	925	43	0
Venetie/Chalkyitsik	24	54	0	100	0	0
Teedriinjik/Draanjik Rivers subtotal	24	54	0	100	0	0
District 5 subtotal	65	947	170	1,025	43	0
Manley ^f	ND	ND	ND	ND	ND	ND
Minto ^f	ND	ND	ND	ND	ND	ND
Nenana/Healy ^f	5	3	180	46	5	0
Fairbanks (FNSB) ^{f, h}	12	0	31	24	13	0
Other District 6 ^{f, j}	14	0	0	0	6	0
District 6 Tanana River subtotal	31	3	211	70	24	0
Upper Yukon River total	144	1,002	2,481	1,101	473	24
Alaska, Yukon Area total	733	1,750	32,721	3,327	1,426	4,166
AK, Yukon Area percentages of the total	NA	4.0%	75.4%	7.7%	3.3%	9.6%
Included in the communities above:						
Subsistence harvests subtotal	727	1,750	32,703	3,327	1,426	4,166
Personal use permit subtotals	6	0	18	0	0	0

Note: NA indicates not applicable. ND indicates no data.

^a Did not include 189 households that fished with a Tolovana River northern pike permit, or 2 households that fished in more than 1 permit area.

^b Included salmon distributed from test fishery projects (added to community estimates).

^d Other District 3 included residents of Shageluk and Holy Cross that fished in District 3. Combined due to confidentiality of low number of households fished.

^c Included salmon harvested under a funerary permit (added to community estimates).

^e Other District 4 included residents of Grayling, Nulato, Koyukuk, and Ruby that fished in District 4. Combined due to confidentiality of low number of households fished.

^f Permit data from permits returned by March 10, 2025.

^g Included the community of Rampart permit data because it was historically a survey community.

^h Fairbanks North Star Borough (FNSB) included Fairbanks, North Pole, Salcha, and Two Rivers. Did not include 1 household(s) that fished more than 1 permit.

ⁱ Other District 5 included residents of Anchorage, Joint Base Elmendorf-Richardson, and Wasilla residents that fished in a permit area of District 5. To preserve confidentiality, Beaver combined with Other District 5 due to the low number of households fished.

^j Other District 6 included residents of Delta Junction, Soldotna, Tok, and Wasilla residents that fished in District 6. Manley and Minto combined with Other District 6 due to the low number of households fished, to preserve confidentiality.

Table 2.—Subsistence and personal use salmon gear estimates, Yukon Area, 2024.

Community	Primary gear used ^a			
	Gillnets		Fish wheel	Other
	Set	Drift		
Hooper Bay	68	0	0	0
Scammon Bay	52	0	0	16
Coastal District total	120	0	0	16
Nunam Iqua	11	0	0	4
Alakanuk	18	0	0	52
Emmonak	13	2	0	50
Kotlik	16	0	0	9
District 1 subtotal	58	2	0	115
Mountain Village	5	2	0	57
Pitkas Point	0	0	0	18
St. Mary's	11	0	0	57
Pilot Station	15	6	0	28
Marshall	9	0	0	32
District 2 subtotal	40	8	0	192
Russian Mission	18	0	0	20
Holy Cross	ND	ND	ND	ND
Shageluk	ND	ND	ND	ND
Other District 3 ^b	0	0	0	0
District 3 subtotal	18	0	0	20
Lower Yukon River total	116	10	0	327
Anvik	1	0	0	1
Grayling	ND	ND	ND	ND
Kaltag	4	0	0	2
Nulato	ND	ND	ND	ND
Koyukuk	ND	ND	ND	ND
Galena	6	4	5	1
Ruby	ND	ND	ND	ND
Other District 4 ^c	2	2	0	0
District 4 Yukon River subtotal	13	6	5	4
Huslia/ Hughes	7	0	0	4
Allakaket/Alatna/Bettles	6	0	2	0
Koyukuk River subtotal	13	0	2	4
District 4 subtotal	26	6	7	8

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Table 2.–Page 2 of 2.

Community	Primary gear used ^a			
	Gillnets		Fish wheel	Other
	Set	Drift		
Tanana	9	0	0	0
Rampart/Stevens Village ^{d, e}	2	0	0	0
Fairbanks (FNSB) ^{d, f}	13	0	0	0
Beaver	0	0	0	0
Fort Yukon/Birch Creek ^b	0	0	1	6
Circle/Central ^d	1	0	0	0
Eagle ^d	3	0	1	0
Other District 5 ^{d, g}	3	0	0	2
District 5 Yukon River subtotal	31	0	2	8
Venetie/Chalkyitsik	11	0	0	13
Teedriinjik/Draanjik Rivers subtotal	11	0	0	13
District 5 subtotal	42	0	2	21
Manley ^d	ND	ND	ND	ND
Minto ^d	ND	ND	ND	ND
Nenana/Healy ^d	3	0	2	0
Fairbanks (FNSB) ^{d, f}	8	0	0	4
Other District 6 ^{d, h}	7	0	0	7
District 6 Tanana River subtotal	18	0	2	11
Upper Yukon River total	86	6	11	40
Alaska, Yukon Area total	322	16	11	383
AK, Yukon Area percentages of the total	44%	2%	2%	52%
Included in the communities above:				
Subsistence harvests subtotal	318	14	11	379
Personal use permit subtotals	2	0	0	4

Note: ND indicates no data.

^a Primary gear was the gear type used to harvest the largest number of salmon by each household. Other gear types included dip nets, fyke nets, jigging, spear, and beach seines. Discrepancies between gear and household totals were due to estimate rounding.

^b Other District 3 included residents of Shageluk and Holy Cross that fished in District 3. Combined due to confidentiality of low number of households fished.

^c Other District 4 included residents of Grayling, Nulato, Koyukuk, and Ruby that fished in District 4. Combined due to confidentiality of low number of households fished.

^d Permit data from permits returned by March 10, 2025.

^e Included the community of Rampart permit data because it was historically a survey community.

^f Fairbanks North Star Borough (FNSB) included Fairbanks, North Pole, Salcha and Two Rivers residents. Did not include 1 household(s) that fished more than 1 permit.

^g Other District 5 included residents of Anchorage, Joint Base Elmendorf-Richardson, and Wasilla residents that fished in a permit area of District 5. Beaver combined with Other District 5 due to the low number of households fished, to preserve confidentiality.

^h Other District 6 included Anchorage, Delta Junction, Lake Minchumina, and Tok residents that fished in District 6. Manley and Minto combined due to the low number of households fished, to preserve confidentiality.

Table 3.—Number of permits issued, returned, and fished listed by permit area, Yukon Area, 2024.

Permit fishing area	Permit ^a			Percent returned	Location	Number of permits fished ^c
	Type	Issued ^b	Returned			
Koyukuk Middle and South Fork Rivers	SF	6	5	83%	NA	1
Yukon River Rampart Area	SR	13	13	100%	NA	5
Yukon River near Haul Road Bridge ^d	SY	39	38	97%	NA	13
Yukon River near Circle and Eagle	SE	32	31	97%	Below sonar Above sonar ^e	1 5
Tanana River Subdistrict 6-A	SA	14	13	93%	NA	0
Tanana River Subdistrict 6-B	SB	36	36	100%	NA	11
Tanana River Upstream of Subdistrict 6-C	SU	37	37	100%	NA	14
Kantishna River Subdistrict 6-A	SK	8	7	88%	NA	0
Tolovana River Pike Subdistrict 6-B	ST	309	306	99%	CHA Non CHA	184 5
Subsistence permit subtotals		494	486	98%		239

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Table 3.–Page 2 of 2.

Personal use permit fishing area	Permit ^a			Percent returned	Location	Number of permits fished ^c
	Type	Issued ^b	Returned			
Tanana River salmon Subdistrict 6-C	PC	20	20	100%	NA	2
Tanana River whitefish upstream of Subdistrict 6-C	PW	15	15	100%	NA	6
Personal use permit subtotals		35	35	100%	NA	8
All permit totals		529	521	98%	NA	247

Note: The first letter of a permit type refers to the fishery type (S = subsistence or P = personal use), the second letter refers to a particular fishing area or targeted species (F = Middle and South Forks of Koyukuk River, R = Yukon River near Rampart, Y = Yukon River near Haul Road Bridge, E = Yukon River near Circle and Eagle, A = Tanana River Subdistrict 6-A, B = Tanana River Subdistrict 6-B, U = Tanana River upstream of Subdistrict 6-C, K = Kantishna River, T = Tolovana River northern pike permit, C = Tanana River Subdistrict 6-C, W = Tanana River whitefish or sucker permit. CHA means Chatanika Harvest Area. NA means not applicable. Permit area descriptions are officially described in Alaska Statutes. Did not include salmon retained from test fishery projects.

^a Permit data from permits returned by March 10, 2025.

^b Included 20 households that were issued permits for more than 1 area.

^c Included 2 households that fished in more than 1 permit area.

^d Included permits issued to residents of Stevens Village.

^e Harvest occurred in the upper portion of the river between the mainstem Yukon River sonar project located near the community of Eagle and the U.S./Canada border.

Table 4.—Estimated (Est) harvest of salmon and 95% confidence interval (CI), for dogs from surveys and permits by community of residence, Yukon Area, 2024.

Community	Number		Households		Number of salmon fed to dogs								Est total
	of dogs		feeding salmon		Summer chum		Fall chum		Coho		Pink		
	Est	CI	Est	CI	Est	CI	Est	CI	Est	CI	Est	CI	
	total	95%	total	95%	total	95%	total	95%	total	95%	total	95%	
Hooper Bay	482	170	0	0	0	0	0	0	0	0	0	0	0
Scammon Bay	189	84	0	0	0	0	0	0	0	0	0	0	0
Nunam Iqua	53	18	0	0	0	0	0	0	0	0	0	0	0
Alakanuk	237	66	9	2	25	41	0	0	0	0	38	41	63
Emmonak	240	39	5	1	21	34	0	0	0	0	0	0	21
Kotlik	203	46	7	1	35	42	0	0	0	0	0	0	35
Mountain Village	257	94	6	2	0	0	0	0	0	0	188	356	188
Pitkas Point	33	13	0	0	0	0	0	0	0	0	0	0	0
St. Mary's	143	33	4	0	20	23	0	0	0	0	0	0	20
Pilot Station	124	29	4	1	18	21	0	0	0	0	0	0	18
Marshall	160	35	0	0	0	0	0	0	0	0	0	0	0
Russian Mission	158	42	14	3	77	93	5	9	32	57	0	0	114
Holy Cross	31	12	0	0	0	0	0	0	0	0	0	0	0
Shageluk	55	12	1	0	0	0	0	0	0	0	0	0	0
Anvik	22	8	0	0	0	0	0	0	0	0	0	0	0
Grayling	41	8	0	0	0	0	0	0	0	0	0	0	0
Kaltag	43	21	0	0	0	0	0	0	0	0	0	0	0
Nulato	75	32	0	0	0	0	0	0	0	0	0	0	0
Koyukuk	39	24	0	0	0	0	0	0	0	0	0	0	0
Galena	118	43	4	2	0	0	0	0	0	0	0	0	0
Ruby	35	14	0	0	0	0	0	0	0	0	0	0	0
Huslia/Hughes	234	74	9	2	729	632	0	0	0	0	0	0	729
Allakaket/Alatna/Bettles	282	185	0	0	0	0	0	0	0	0	0	0	0

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Table 4.–Page 2 of 2.

	Number of dogs		Households feeding salmon to dogs		Number of salmon fed to dogs								Est total
					Summer chum		Fall chum		Coho		Pink		
	Est total	CI 95%	Est total	CI 95%	Est total	CI 95%	Est total	CI 95%	Est total	CI 95%	Est total	CI 95%	
Community													
Tanana	139	34	2	1	0	0	514	870	0	0	0	0	514
Stevens Village/Rampart ^a	269	0	1	0	0	0	0	0	0	0	0	0	0
Beaver	27	13	0	0	0	0	0	0	0	0	0	0	0
Fort Yukon/Birch Creek	225	59	0	0	0	0	0	0	0	0	0	0	0
Venetie/Chalkyitsik	188	50	0	0	0	0	0	0	0	0	0	0	0
Survey Total	4,102	322	66	5	925	612	519	850	32	52	226	346	1,702
Subsistence/personal use permits													
Fairbanks (FNSB) ^b	88	NA	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	0
Circle/Central	4	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0
Eagle	108	NA	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	0
Other District 5 ^c	12	NA	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	0
District 5 permit subtotal	212	NA	16	NA	NA	NA	NA	NA	NA	NA	NA	NA	0
Manley	15	NA	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	0
Nenana/Healy	101	NA	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	232
Fairbanks (FNSB) ^b	55	NA	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	0
Other District 6 ^c	58	NA	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	0
District 6 permit subtotal	232	NA	16	NA	NA	NA	NA	NA	NA	NA	NA	NA	232
Subsistence permit subtotal	407	NA	31	NA	NA	NA	NA	NA	NA	NA	NA	NA	232
District 5 total	1,023	NA	18	NA	NA	NA	NA	NA	NA	NA	NA	NA	514
Subsistence use subtotal	4,509	NA	97	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,934
Personal use permit subtotal	37	NA	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	0
Total survey and permit	4,546	NA	98	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,934

Note: Information from permits returned as of March 10, 2025. NA indicates not applicable. Information about salmon fed to dogs by species was not collected on permits.

^a Rampart permit data added to Stevens Village survey data for reasons of confidentiality. Total salmon fed to dogs included Rampart permit data.

^b Fairbanks North Star Borough (FNSB) may include Fairbanks, Ester, North Pole, Salcha, and Two Rivers.

^c Households from other communities included Anchorage, Circle, Delta Junction, Eagle River, Kenai, Manley, Soldotna, Tok Wasilla, Nenana, Wiseman, Auke Bay, Delta Junction, Eagle River, Joint Base Elmendorf-Richardson, Lake Minchumina, and Northway who were issued a permit.

Table 5.—Estimated (Est) total number of households, households that fished, and people in surveyed communities, including community and district totals, and 95% confidence interval (CI) Yukon Area, 2024.

Community	Total households				Total fished			Total people		
	<i>N</i>	<i>S</i>	<i>n</i>	% <i>S</i>	<i>n</i>	Est total	CI 95%	<i>np</i>	Est total	CI 95%
Hooper Bay	245	140	78	56	67	68	7	67	1,068	148
Scammon Bay	121	71	57	80	46	69	10	45	677	155
Coastal District	366	211	135	64	113	137	12	112	1,745	212
Nunam Iqua	49	31	25	81	22	15	3	22	242	46
Alakanuk	165	104	92	88	85	71	3	80	775	57
Emmonak	223	157	126	80	116	66	3	111	908	71
Kotlik	142	100	84	84	77	24	5	75	737	74
District 1	579	392	327	83	300	176	6	288	2,662	124
Mountain Village	183	112	88	79	83	63	4	81	763	83
Pitkas Point	30	30	21	70	18	18	1	18	82	17
St. Mary's	154	105	82	78	77	68	4	76	503	58
Pilot Station	141	99	78	79	69	49	4	69	622	64
Marshall	104	69	55	80	55	40	2	55	401	39
District 2	612	415	324	78	302	238	7	299	2,371	126
Russian Mission	83	48	38	79	36	38	5	36	426	70
Holy Cross	56	42	31	74	25	0	0	23	143	23
Shageluk	33	33	24	73	21	0	0	19	84	24
District 3	172	123	93	76	82	38	5	78	653	76
Anvik	23	23	19	83	17	4	1	17	50	8
Grayling	51	32	26	81	16	2	1	14	178	22
Kaltag	54	34	29	85	27	6	2	27	120	17
Nulato	76	40	33	82	29	0	0	25	202	47
Koyukuk	43	23	19	83	16	0	0	16	88	21
Galena	142	73	58	79	58	16	3	58	349	55
Ruby	47	28	25	89	24	2	1	24	107	23
Huslia	83	43	35	81	35	11	2	35	218	43
Hughes	37	37	25	68	20	0	0	19	101	29
Allakaket	59	36	25	69	23	7	0	21	158	37
Alatna	7	7	2	29	2	0	0	2	21	17
Bettles	14	14	3	21	3	0	0	3	23	13
District 4	636	390	299	77	270	48	15	261	1,614	102

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Table 5.–Page 2 of 2.

Community	Total households				Total fished			Total people		
	<i>N</i>	<i>S</i>	<i>n</i>	% <i>S</i>	<i>n</i>	Est total	CI 95%	<i>np</i>	Est total	CI 95%
Tanana	99	73	58	79	56	9	1	57	202	18
Stevens Village	24	24	7	29	6	0	0	5	51	0
Birch Creek	15	15	11	73	11	0	0	11	20	4
Beaver	32	32	21	66	20	1	0	17	83	16
Fort Yukon	213	115	90	78	83	7	1	82	472	57
Venetie	85	55	46	84	46	24	3	46	223	21
Chalkyitsik	29	29	21	72	20	0	0	17	60	10
District 5	497	343	254	74	242	41	3	235	1,112	65
Survey totals	2,862	1,874	1,432	76	1,309	678	17	1,273	10,157	308

Note: The following notations were used in the above table: *N* = the total number of households, *S* = the number of households selected, *n* = the number of households contacted, and %*S* = the percentage of the selected households that were contacted in each harvest group in surveyed communities. In most communities a smaller number of households provided information about the number of people (*np*) in their households.

Table 6.—Estimated subsistence harvest of salmon species, not including test fishery catches, by fishing location in surveyed districts, Yukon Area, 2024.

		Harvest districts/subdistricts ^a													Harvest river drainages					Total by residence district
Species	Residence district	Coastal	1	2	3	4A	4B	4C	5A	5B	5C	5D		6	Innoko	Koyukuk	Teedriinjik	Porcupine	Draanjik	
												down	up							
Chinook	Coastal	299	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	299
	1	0	103	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	103
	2	0	0	122	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	139
	3	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
	4	0	0	0	0	7	17	0	0	0	0	0	0	0	0	0	0	0	0	24
	5	0	0	0	0	0	0	0	0	8	0	236	0	0	0	0	44	0	0	288
Harvest district totals		299	103	122	24	7	17	0	0	8	0	236	0	0	0	0	44	0	0	860
Summer chum	Coastal	8,541	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8,541
	1	0	8,593	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8,593
	2	0	176	8,343	1,556	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,075
	3	0	0	0	1,091	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,091
	4	0	0	0	0	1,315	601	0	0	0	0	0	0	0	0	178	0	0	0	2,094
	5	0	0	0	0	0	0	0	0	89	0	1	0	0	0	0	0	0	0	90
Harvest district totals		8,541	8,769	8,343	2,647	1,315	601	0	0	89	0	1	0	0	0	178	0	0	0	30,484
Fall chum	Coastal	175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	175
	1	0	215	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	215
	2	0	0	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39
	3	0	0	0	131	0	0	0	0	0	0	0	0	0	0	0	0	0	0	131
	4	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6
	5	0	0	0	0	0	0	0	583	312	0	38	0	0	0	0	62	0	0	995
Harvest district totals		175	215	39	131	6	0	0	583	312	0	38	0	0	0	0	62	0	0	1,561

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Table 6.–Page 2 of 2.

		Harvest districts/subdistricts ^a											Harvest river drainages						Total by residence district		
Species	Residence district	Coastal											5D			Innoko	Koyukuk	Teedriinjik		Porcupine	Draanjik
			1	2	3	4A	4B	4C	5A	5B	5C	down	up	6							
Coho	Coastal	183	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	183	
	1	0	263	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	263	
	2	0	0	133	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	133	
	3	0	0	0	158	0	0	0	0	0	0	0	0	0	0	0	0	0	0	158	
	4	0	0	0	0	6	399	0	0	0	0	0	0	0	0	0	0	0	0	405	
	5	0	0	0	0	0	0	0	0	38	0	0	0	0	0	0	0	0	0	38	
Harvest district totals		183	263	133	158	6	399	0	0	38	0	0	0	0	0	0	0	0	0	1,180	
Pink	Coastal	1,726	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,726	
	1	0	1,816	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,816	
	2	0	124	246	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	370	
	3	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
	4	0	0	0	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0	24	
	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Harvest district totals		1,726	1,940	246	2	24	0	0	0	0	0	0	0	0	0	0	0	0	0	3,938	

Note: Totals may not add in both directions due to estimate decimal rounding.

^a Harvest near Fort Yukon was divided according to whether harvest occurred downriver (5D-down) or upriver (5D-up) of the confluence of the Porcupine and Yukon Rivers.

Table 7.—Estimated subsistence harvest of whitefish, northern pike, and sheefish and 95% confidence interval (CI) by surveyed communities, Yukon Area, 2024.

Community	Broad whitefish		Humpback whitefish		Small whitefish		Northern pike		Sheefish	
	Est total	CI 95%	Est total	CI 95%	Est total	CI 95%	Est total	CI 95%	Est total	CI 95%
Hooper Bay	139	224	517	746	1,211	1,042	299	537	37	48
Scammon Bay	310	309	303	113	3,230	1,871	4,782	3,445	462	247
Coastal District	449	361	820	748	4,441	2,096	5,081	3,404	499	242
Nunam Iqua	30	35	33	64	159	194	490	19	281	155
Alakanuk	290	279	682	483	608	308	1,109	572	1,053	414
Emmonak	223	163	394	190	300	238	356	202	1,169	918
Kotlik	324	466	576	492	1,916	860	1,852	762	1,047	294
District 1	867	554	1,685	703	2,983	947	3,807	959	3,550	1,049
Mountain Village	538	413	856	430	1,176	1,049	951	412	1,029	591
Pitkas Point	34	39	6	9	47	50	216	204	42	42
St. Mary's	449	302	1,559	722	56	67	1,431	750	358	176
Pilot Station	887	880	1,157	525	277	398	289	235	231	135
Marshall	194	138	940	321	277	319	491	468	258	109
District 2	2,102	1,009	4,518	1,026	1,833	1,146	3,378	1,000	1,918	632
Russian Mission	326	351	202	129	5	9	721	666	128	70
Holy Cross	0	0	0	0	0	0	2	3	19	28
Shageluk	0	0	7	9	50	67	144	148	2	2
District 3	326	338	209	125	55	64	867	664	149	73
Anvik	21	33	84	49	66	61	86	43	105	51
Grayling	0	0	128	240	0	0	0	0	115	88
Kaltag	0	0	16	19	0	0	57	92	123	132
Nulato	600	1,143	0	0	0	0	120	229	32	47
Koyukuk	0	0	0	0	0	0	207	379	14	16
Galena	786	1,056	768	1,274	98	122	49	28	575	777
Ruby	0	0	0	0	0	0	0	0	19	31
Huslia/Hughes	409	203	743	308	80	115	1,750	1,013	212	97
Allakaket/Alatna/Bettles	370	35	1,116	1,642	1,060	1,769	984	1,762	438	21
District 4	2,186	1,510	2,855	2,045	1,304	1,691	3,253	1,991	1,633	787

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Table 7.–Page 2 of 2.

Community	Broad whitefish		Humpback whitefish		Small whitefish		Northern pike		Sheefish	
	Est total	CI 95%	Est total	CI 95%	Est total	CI 95%	Est total	CI 95%	Est total	CI 95%
Tanana	421	234	49	28	677	837	361	233	128	73
Stevens Village/Rampart	0	0	0	0	0	0	0	0	0	0
Beaver	14	9	2	4	0	0	10	9	0	0
Fort Yukon/Birch Creek	150	149	68	90	20	25	143	98	59	87
Venetie/Chalkyitsik	4	3	0	0	0	0	656	538	12	10
District 5	589	273	119	93	697	821	1,170	583	199	113
Survey totals	6,519	1,970	10,206	2,499	11,313	3,158	17,556	4,226	7,948	1,476

Note: Confidence intervals (CI) were based on survey estimates and did not include test fishery catch. In previous reports, broad and humpback whitefish were considered large whitefish. Small whitefish include least cisco, Bering cisco, and round whitefish.

Table 8.—Reported subsistence harvest of nonsalmon fish species, by surveyed communities, Yukon Area, 2024.

Community	Alaska blackfish	Arctic grayling	Arctic lamprey	Burbot	Pacific herring	Tomcod
Hooper Bay ^a	0	0	0	0	308	84
Scammon Bay ^a	6,544	0	1	25	14,781	954
Coastal District	6,544	0	1	25	15,089	1,038
Nunam Iqua	280	0	0	0	0	56
Alakanuk	2,170	0	0	47	229	280
Emmonak ^a	2,677	0	0	24	52	400
Kotlik ^a	1,685	29	0	54	340	45
District 1	6,812	29	0	125	621	781
Mountain Village	2,450	0	2,281	50	0	0
Pitkas Point	4	0	960	5	0	0
St. Mary's	0	17	2,697	24	0	0
Pilot Station	140	0	2,674	14	0	0
Marshall	0	0	0	38	0	0
District 2	2,594	17	8,612	131	0	0
Russian Mission	400	0	5,955	18	0	0
Holy Cross	1	0	0	1	0	0
Shageluk	0	0	0	0	0	0
District 3	401	0	5,955	19	0	0
Anvik	0	60	0	0	0	0
Grayling	0	0	0	0	0	0
Kaltag	0	129	0	0	0	0
Nulato	0	16	0	12	0	0
Koyukuk	0	0	0	0	0	0
Galena	0	30	0	10	0	0
Ruby	0	7	0	4	0	0
Huslia	0	10	0	4	0	0
Hughes	0	0	0	0	0	0
District 4	0	252	0	30	0	0
Tanana	0	0	0	3	0	0
Stevens Village/Rampart	0	0	0	0	0	0
Beaver	0	0	0	0	0	0
Fort Yukon/Birch Creek	0	0	0	24	0	0
Venetie/Chalkyitsik	0	297	0	0	0	0
District 5	0	297	0	27	0	0
Survey totals	16,351	595	14,568	357	15,710	1,819

^a A total of 16 households from 4 communities reported harvesting 838 pounds of herring roe on kelp.

Table 9.—Reported subsistence and personal use fish harvested under the authority of a permit, listed by permit area, Yukon Area, 2024.

Permit fishing area	Permit ^a Type	Location	Chinook	Summer chum	Fall chum	Coho	Whitefish	Sheefish	Burbot	Northern pike	Longnose sucker	Arctic grayling
Koyukuk Middle and South Fork Rivers	SF	NA	0	0	0	0	0	0	7	0	58	1
Yukon River Rampart Area	SR	NA	33	22	0	0	82	6	1	5	0	0
Yukon River near Haul Road Bridge ^b	SY	NA	253	39	0	5	344	32	3	42	0	0
Yukon River near Circle and Eagle ^c	SE	Below sonar Above sonar	17 32	0 0	0 30	0 0	0 324	0 80	0 16	0 7	0 1	0 0
Tanana River Subdistrict 6-A	SA	NA	0	0	0	0	0	0	0	0	0	0
Tanana River Subdistrict 6-B	SB	NA	3	193	52	13	179	3	1	26	76	0
Tanana River Upstream of Subdistrict 6-C	SU	NA	0	0	0	11	872	0	32	86	20	5
Kantishna River Subdistrict 6-A	SK	NA	0	0	0	0	0	0	0	0	0	0
Tolovana River northern pike Subdistrict 6-B	ST	CHA Non CHA	0 0	0 0	0 18	0 0	0 302	0 38	0 1	1,600 798	0 0	0 0
Subsistence permit subtotals			338	254	100	29	2,103	159	61	2,564	155	6

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Table 9.–Page 2 of 2.

Personal use permit fishing area	Permit ^a Type	Location	Chinook	Summer chum	Fall chum	Coho	Whitefish	Sheefish	Burbot	Northern pike	Longnose sucker	Arctic grayling
Tanana River salmon Subdistrict 6-C	PC	NA	0	18	0	0	0	0	0	0	0	0
Tanana River whitefish upstream of Subdistrict 6-C	PW	NA	0	0	0	0	7	0	0	0	58	0
Personal use permit subtotals			0	18	0	0	7	0	0	0	58	0
All permit totals			338	272	100	29	2,110	159	61	2,564	213	6

Note: The first letter of a permit type refers to the fishery type (S = subsistence or P = personal use), the second letter refers to a particular fishing area or targeted species (F = Middle and South Forks of Koyukuk River, R = Yukon River near Rampart, Y = Yukon River near Haul Road Bridge, E = Yukon River near Circle and Eagle, A = Tanana River Subdistrict 6-A, B = Tanana River Subdistrict 6-B, U = Tanana River upstream of Subdistrict 6-C, K = Kantishna River, T = Tolovana River northern pike permit, C = Tanana River Subdistrict 6-C, W = Tanana River whitefish or sucker permit. CHA means Chatanika Harvest Area. NA indicates not applicable. Permit area descriptions are officially described in Alaska State statutes. Did not include salmon retained from test fishery projects.

^a Permit data from permits returned by March 10, 2025.

^b Included salmon reported on permits issued to residents of Stevens Village.

^c Harvest occurred in the upper portion of the river between the mainstem Yukon River sonar project located near the community of Eagle and the U.S./Canada border.

Table 10.—Reported subsistence and personal use harvest of salmon species by fishing location in permit districts, Yukon Area, 2024.

		Harvest subdistrict/districts				River drainages		
		5D ^a						
Species	Community district	5C	Below sonar	Above sonar	6	Tolovana	Kantishna	Total by district
Chinook	5	365	0	5	0	0	0	370
	6	0	0	0	0	0	0	0
	Permit totals	365	0	5	0	0	0	370
Summer chum	5	90	0	0	0	0	0	90
	6	0	0	0	0	0	0	0
	Permit totals	90	0	0	0	0	0	90
Fall chum	5	5	0	89	0	0	0	94
	6	0	0	0	2	0	0	2
	Permit totals	5	0	89	2	0	0	96
Coho	5	0	0	0	0	0	0	0
	6	0	0	0	8	0	0	8
	Permit totals	0	0	0	8	0	0	8

^a Harvest subdistrict was divided downstream (5D–Below sonar) or upstream (5D–Above sonar) of the Yukon River sonar near the community of Eagle.

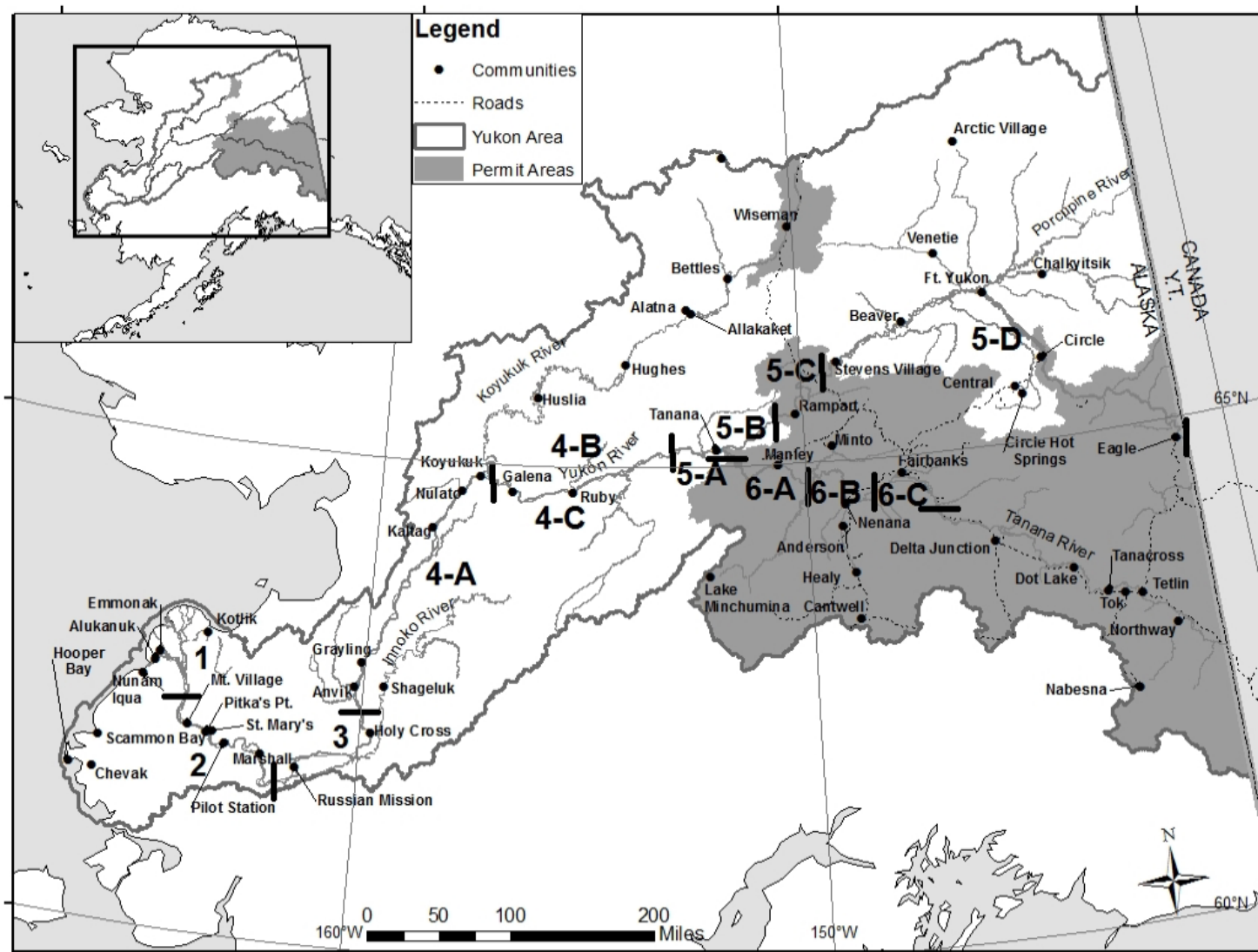


Figure 1.—Map of Alaska portion of the Yukon River drainage showing communities, districts, subdistricts, and permit areas (grey shading).

Note: Subsistence and personal use permit areas are shaded.

5 AAC 99.015 Joint Board Nonsubsistence Areas.

(4) The Fairbanks Nonsubsistence Area is comprised of the following: within Unit 20(A), as defined by 5 AAC 92.450(20) (A), east of the Wood River drainage and south of the Rex Trail but including the upper Wood River drainage south of its confluence with Chicken Creek; within Unit 20(B), as defined by 5 AAC 92.450(20) (B), the North Star Borough and that portion of the Washington Creek drainage east of the Elliot Highway; within Unit 20(D) as defined by 5 AAC 92.450(20) (D), west of the Tanana River between its confluence with the Johnson and Delta Rivers, west of the east bank of the Johnson River, and north and west of the Volkmar drainage, including the Goodpaster River drainage; and within Unit 25(C), as defined by 5 AAC 92.450(25) (C), the Preacher and Beaver Creek drainages.

Legend

— Fairbanks Nonsubsistence Area

..... Roads

• Communities

0 25 50 Miles

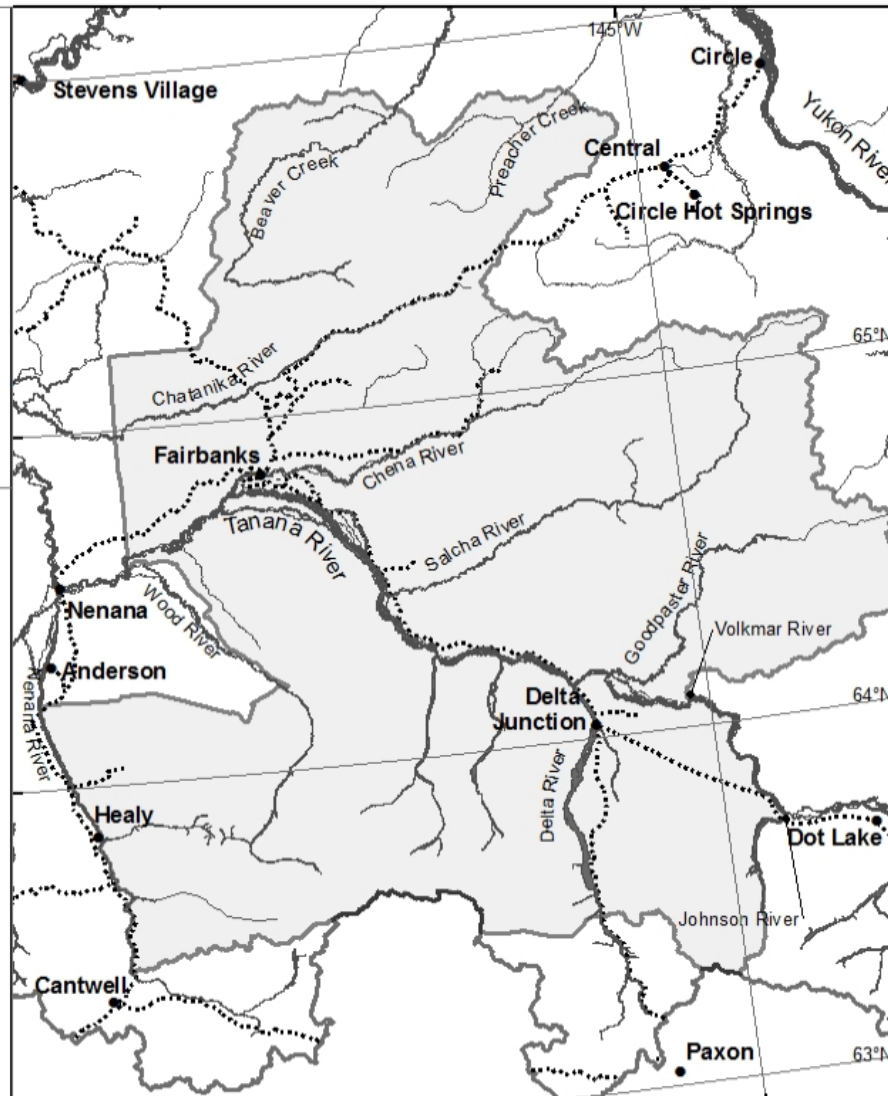


Figure 2.—Map of the Fairbanks Nonsubsistence Area.

Note: Households must have a personal use permit and sport fish license to fish in the Nonsubsistence Area.

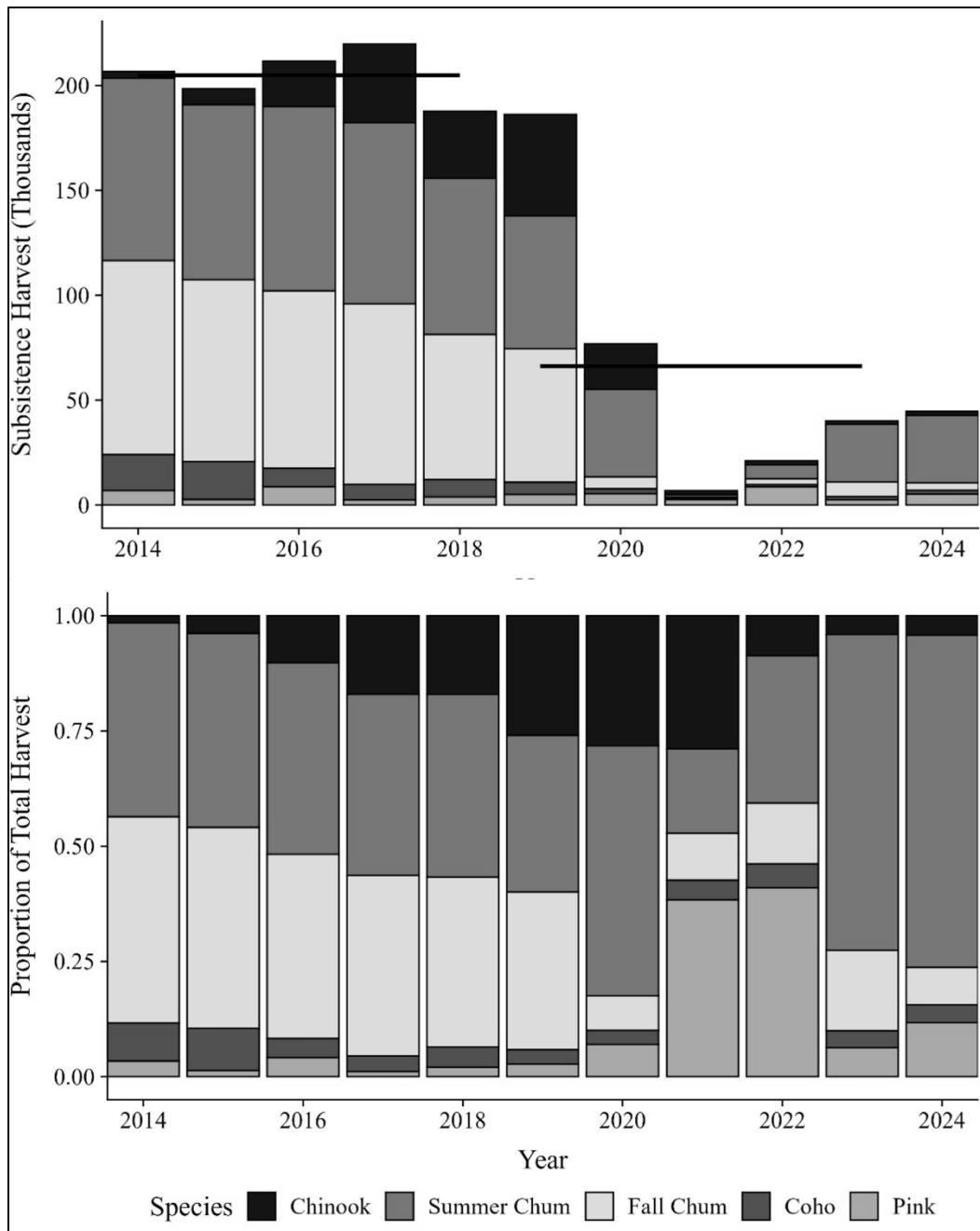


Figure 3.—Estimated total subsistence salmon harvest by species, Yukon Area, 2014–2024.

Note: Harvest of salmon species by number (top) and proportion (bottom). Totals include survey, permit, test fishery, and retained from commercial. Does not include salmon caught in the personal use fishery. Black horizontal lines represent 5-year averages.

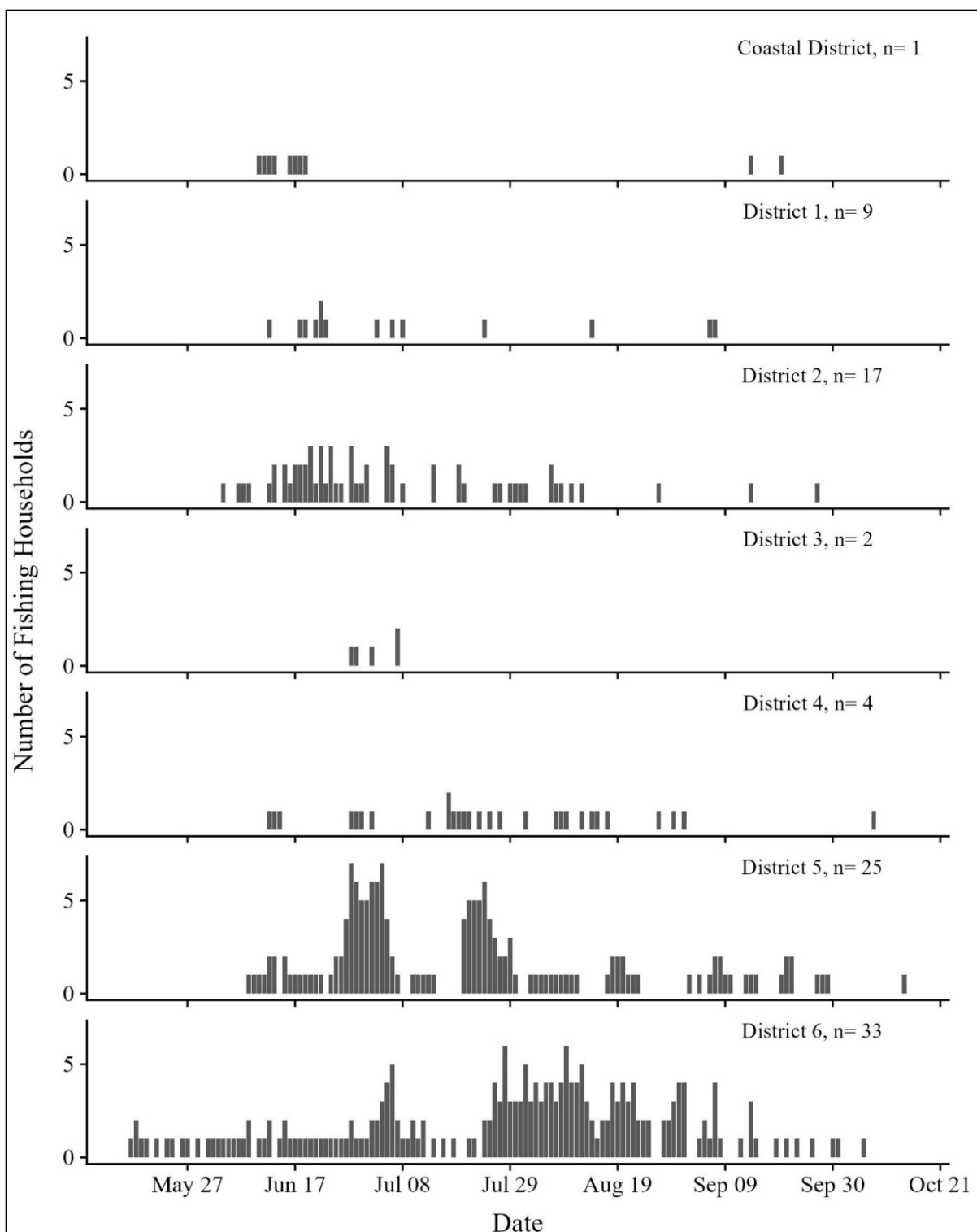


Figure 4.—Number of fishing households reporting harvest on calendars or permits by day and by district, 2024.

Note: Bars represent the number of fishing households in each district that recorded harvest by day on calendars and permits. Does not include permit types primarily issued in District 6 for the harvest of nonsalmon species such as whitefish or northern pike.

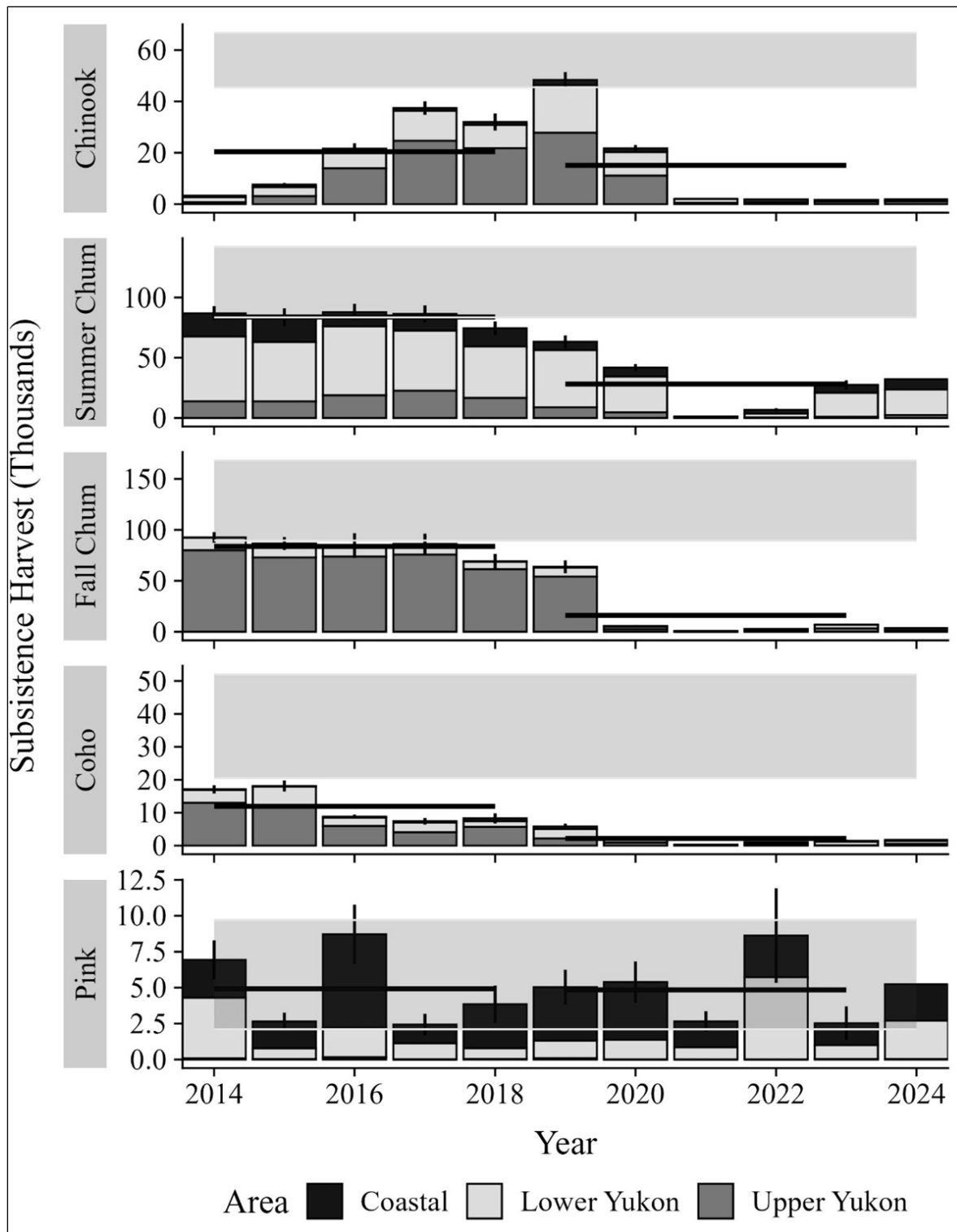


Figure 5.—Estimated salmon subsistence harvest Yukon Area, 2014–2024.

Note: Harvest estimates and 95% confidence interval (black vertical lines) were provided. Black horizontal lines are 5-year averages and amounts necessary for subsistence ranges are shaded light grey.

APPENDIX A: 2024 HARVEST INFORMATION

Appendix A1.–Estimated (Est) subsistence harvest of salmon and 95% confidence interval (CI) in surveyed communities, including community and district totals, Yukon Area, 2024.

Community	Chinook		Summer chum		Fall chum		Coho		Pink	
	Est	CI	Est	CI	Est	CI	Est	CI	Est	CI
Hooper Bay	136	106	3,888	1,567	32	47	58	78	967	1,142
Scammon Bay	163	137	4,654	1,858	143	172	125	134	759	528
Coastal District total	299	170	8,541	2,388	175	173	183	151	1,726	1,245
Nunam Iqua	39	46	536	337	0	0	0	0	23	35
Alakanuk	25	14	3,159	1,120	100	100	56	52	883	478
Emmonak	28	19	4,347	2,601	77	49	24	20	552	473
Kotlik	11	6	556	321	37	35	184	267	357	359
District 1 total	103	50	8,597	2,845	215	116	263	268	1,816	755
Mountain Village	58	79	2,106	1,227	76	80	74	110	329	296
Pitkas Point	4	5	358	193	0	0	0	0	0	0
St. Mary's	23	9	1,854	701	0	0	61	102	233	92
Pilot Station	29	22	3,527	2,569	0	0	0	0	0	0
Marshall	24	34	2,232	886	35	23	1	1	0	0
District 2 total	138	88	10,077	3,021	111	82	136	148	562	305
Russian Mission	7	12	1,091	737	131	125	158	140	2	2
Holy Cross	0	0	0	0	0	0	0	0	0	0
Shageluk	0	0	0	0	0	0	0	0	0	0
District 3 total	7	12	1,091	715	131	121	158	135	2	2
Anvik	7	5	167	71	6	5	4	3	24	21
Grayling	0	0	9	15	0	0	0	0	0	0
Kaltag	0	0	4	5	0	0	3	5	0	0
Nulato	0	0	0	0	0	0	0	0	0	0
Koyukuk	0	0	0	0	0	0	0	0	0	0
Galena	17	27	601	1,003	0	0	399	669	0	0
Ruby	0	0	0	0	0	0	0	0	0	0
Huslia/Hughes	0	0	1,222	981	0	0	0	0	0	0
Allakaket/Alatna/Bettles	0	0	92	62	0	0	0	0	0	0
District 4 total	24	27	2,094	1,379	6	5	405	656	24	19
Tanana	8	4	89	47	895	1,026	38	23	0	0
Rampart/Stevens Village	0	0	0	0	0	0	0	0	0	0
Beaver	6	6	1	2	0	0	0	0	0	0
Fort Yukon/Birch Creek	220	229	0	0	0	0	0	0	0	0
Venetie/Chalkyitsik	54	66	0	0	100	89	0	0	0	0
District 5 total	287	236	90	46	995	1,010	38	22	0	0
Survey total	859	307	30,490	5,004	1,633	1,036	1,184	749	4,130	1,473

Note: The number of salmon harvested was estimated using the total number of households and the maximum number of households contacted.

Appendix A2.—Number of salmon provided to communities for subsistence use by test fishery programs, Yukon Area, 2024.

Yukon River test fishery sites	Community	Chinook	Summer chum	Fall chum	Coho	Pink ^a	Total
Lower Yukon test fishery (LYTF)	Nunam Iqua	0	0	32	0	0	32
	Alakanuk	13	162	71	12	3	261
	Emmonak ^b	7	1,368	677	47	6	2,105
	Kotlik	0	4	0	0	0	4
	Mountain Village	0	0	0	0	0	0
LYTF project subtotal:		20	1,534	780	59	9	2,402
Mountain Village test fishery	Mountain Village	0	0	428	58	1	487
Pilot Station sonar test fishery	Pilot Station ^c	177	388	387	95	27	1,074
Ichthyophonous	Tanana	137	18	0	0	0	155
	Stevens Village/Rampart	43	0	0	0	0	43
	Fort Yukon/Birch Creek	144	1	0	0	0	145
Other projects subtotal		501	407	815	153	28	1,904
Test fishery totals		521	1,941	1,595	212	37	4,306

^a Pink salmon harvested and distributed from test fishery projects were not always recorded. The harvest shown here is a minimum.

^b Included salmon donated from a radiotelemetry study along with 3 sockeye salmon.

^c Did not include 9 sockeye salmon also donated.

Appendix A3.—Number of salmon provided to communities for subsistence use by funerary permits, Yukon Area, 2024.

Community	Chinook	Summer chum	Fall chum	Coho	Total
Nunam Iqua	4	10	0	0	14
Koyukuk	15	2	0	0	17
Galena	3	0	0	0	3
Ruby	10	3	0	0	13
Total	32	15	0	0	47

Appendix A4.–Estimated number (Est) of primary gear and 95% confidence interval (CI) in surveyed communities, Yukon Area, 2024.

Community	Setnet		Driftnet		Fish wheel		Dip net		Hook & Line	
	Est	CI	Est	CI	Est	CI	Est	CI	Est	CI
Hooper Bay	68	7	0	0	0	0	0	0	0	0
Scammon Bay	52	13	0	0	0	0	16	6	0	0
Coastal District total	121	15	0	0	0	0	16	6	0	0
Nunam Iqua	11	5	0	0	0	0	4	2	0	0
Alakanuk	18	3	0	0	0	0	52	7	0	0
Emmonak	13	2	2	0	0	0	50	7	0	0
Kotlik	16	6	0	0	0	0	9	2	0	0
District 1 total	58	8	2	0	0	0	115	11	0	0
Mountain Village	5	1	2	1	0	0	57	7	0	0
Pitkas Point	0	0	0	0	0	0	18	1	0	0
St. Mary's	11	3	0	0	0	0	57	6	0	0
Pilot Station	15	4	6	1	0	0	28	6	0	0
Marshall	9	2	0	0	0	0	32	6	0	0
District 2 total	38	5	8	2	0	0	191	13	0	0
Russian Mission	18	7	0	0	0	0	20	5	0	0
Holy Cross	0	0	0	0	0	0	0	0	0	0
Shageluk	0	0	0	0	0	0	0	0	0	0
District 3 total	18	6	0	0	0	0	20	5	0	0
Anvik	1	1	0	0	0	0	0	0	0	0
Grayling	2	1	0	0	0	0	0	0	0	0
Kaltag	4	3	0	0	0	0	0	0	2	3
Nulato	0	0	0	0	0	0	0	0	0	0
Koyukuk	0	0	0	0	0	0	0	0	0	0
Galena	6	3	4	3	5	3	0	0	1	0
Ruby	0	0	2	1	0	0	0	0	0	0
Huslia/Hughes	7	2	0	0	0	0	4	2	0	0
Allakaket/Alatna/Bettles	6	2	0	0	2	2	0	0	0	0
District 4 total	26	5	6	3	6	3	4	2	4	2
Tanana	9	1	0	0	0	0	0	0	0	0
Rampart/Stevens Village	0	0	0	0	0	0	0	0	0	0
Beaver	1	0	0	0	0	0	0	0	0	0
Fort Yukon/Birch Creek	0	0	0	0	1	1	0	0	6	1
Venetie/Chalkyitsik	11	4	0	0	0	0	0	0	13	4
District 5 total	21	4	0	0	1	1	0	0	19	4
Survey total	283	20	17	4	8	3	347	19	23	5

Note: Differences between estimates and totals were due to rounding during analyses.

Appendix A5.—Estimated number (Est) of Chinook salmon harvested and 95% confidence interval (CI) by gear type in surveyed communities, Yukon Area, 2024.

Community	Gillnet mesh size						Fish wheel		Dip net		Beach seine		Other gear	
	4-inch or less		6-inch		7.5-inch									
	Est	CI	Est	CI	Est	CI	Est	CI	Est	CI	Est	CI	Est	CI
Hooper Bay	69	81	22	29	45	42	0	0	0	0	0	0	0	0
Scammon Bay	154	130	0	0	0	0	0	0	9	7	0	0	0	0
Coastal District total	223	150	22	29	45	42	0	0	9	7	0	0	0	0
Nunam Iqua	37	44	0	0	0	0	0	0	2	1	0	0	0	0
Alakanuk	18	10	0	0	0	0	0	0	7	3	0	0	0	0
Emmonak	23	17	0	0	0	0	0	0	5	8	0	0	0	0
Kotlik	5	3	0	0	0	0	0	0	5	3	0	0	0	0
District 1 total	84	46	0	0	0	0	0	0	19	9	0	0	0	0
Mountain Village	45	79	0	0	0	0	0	0	13	10	0	0	0	0
Pitkas Point	4	5	0	0	0	0	0	0	0	0	0	0	0	0
St. Mary's	12	4	0	0	0	0	0	0	12	4	0	0	0	0
Pilot Station	7	5	0	0	0	0	0	0	22	16	0	0	0	0
Marshall	24	34	0	0	0	0	0	0	0	0	0	0	0	0
District 2 total	91	85	0	0	0	0	0	0	47	19	0	0	0	0
Russian Mission	0	0	7	12	0	0	0	0	0	0	0	0	0	0
Holy Cross	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shageluk	0	0	0	0	0	0	0	0	0	0	0	0	0	0
District 3 total	0	0	7	12	0	0	0	0	0	0	0	0	0	0
Anvik	0	0	0	0	0	0	7	5	0	0	0	0	0	0
Grayling	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kaltag	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nulato	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Koyukuk	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Galena	0	0	1	1	0	0	16	27	0	0	0	0	0	0
Ruby	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Huslia/Hughes	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Allakaket/Alatna/Bettles	0	0	0	0	0	0	0	0	0	0	0	0	0	0
District 4 total	0	0	1	1	0	0	23	27	0	0	0	0	0	0

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Community	Gillnet mesh size													
	4-inch or less		6-inch		7.5-inch		Fish wheel		Dip net		Beach seine		Other gear	
	Est	CI	Est	CI	Est	CI	Est	CI	Est	CI	Est	CI	Est	CI
Tanana	8	4	0	0	0	0	0	0	0	0	0	0	0	0
Stevens Village	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Beaver	6	6	0	0	0	0	0	0	0	0	0	0	0	0
Fort Yukon/Birch Creek	0	0	0	0	0	0	220	229	0	0	0	0	0	0
Venetie/Chalkyitsik	54	66	0	0	0	0	0	0	0	0	0	0	0	0
District 5 total	67	65	0	0	0	0	220	227	0	0	0	0	0	0
Survey total	466	188	30	31	45	41	243	227	75	22	0	0	0	0

Note: Estimates include only those fish harvested for subsistence purposes in surveyed communities and do not include fish retained from commercial, test fishery donations, funerary permits, or harvests from permit areas. Differences between estimates and totals were due to rounding during analyses.

Appendix A6.—Estimated number (Est) of summer chum salmon harvested and 95% confidence intervals (CI) by gear type in surveyed communities, Yukon Area, 2024.

Community	Gillnet mesh size													
	4-inch or less		6-inch		7.5-inch		Fish wheel		Dip net		Beach seine		Other gear	
	Est	CI	Est	CI	Est	CI	Est	CI	Est	CI	Est	CI	Est	CI
Hooper Bay	2,704	1,038	1,184	606	0	0	0	0	0	0	0	0	0	0
Scammon Bay	3,516	1,583	0	0	0	0	0	0	1,138	411	0	0	0	0
Coastal District total	6,220	1,856	1,184	602	0	0	0	0	1,138	401	0	0	0	0
Nunam Iqua	197	127	0	0	0	0	0	0	340	220	0	0	0	0
Alakanuk	593	171	0	0	0	0	0	0	2,566	954	0	0	0	0
Emmonak	955	298	0	0	0	0	0	0	3,392	2,553	0	0	0	0
Kotlik	151	68	170	251	0	0	0	0	235	114	0	0	0	0
District 1 total	1,895	367	170	247	0	0	0	0	6,532	2,715	0	0	0	0
Mountain Village	143	112	0	0	0	0	0	0	1,963	1,200	0	0	0	0
Pitkas Point	0	0	0	0	0	0	0	0	358	193	0	0	0	0
St. Mary's	54	19	0	0	0	0	0	0	1,626	615	0	0	0	0
Pilot Station	500	476	65	14	0	0	0	0	2,962	2,143	0	0	0	0
Marshall	976	685	0	0	0	0	0	0	1,256	520	0	0	0	0
District 2 total	1,672	826	65	13	0	0	0	0	8,165	2,552	0	0	0	0
Russian Mission	485	426	3	2	0	0	0	0	603	329	0	0	0	0
Holy Cross	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shageluk	0	0	0	0	0	0	0	0	0	0	0	0	0	0
District 3 total	485	414	3	2	0	0	0	0	603	319	0	0	0	0
Anvik	0	0	0	0	0	0	97	41	0	0	70	30	0	0
Grayling	9	15	0	0	0	0	0	0	0	0	0	0	0	0
Kaltag	4	5	0	0	0	0	0	0	0	0	0	0	0	0
Nulato	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Koyukuk	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Galena	0	0	0	0	0	0	601	1,003	0	0	0	0	0	0
Ruby	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Huslia/Hughes	1,201	968	0	0	0	0	0	0	21	15	0	0	0	0
Allakaket/Alatna/Bettles	8	7	24	0	0	0	60	55	0	0	0	0	0	0
District 4 total	1,222	949	24	0	0	0	757	987	21	15	70	28	0	0

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Community	Gillnet mesh size													
	4-inch or less		6-inch		7.5-inch		Fish wheel		Dip net		Beach seine		Other gear	
	Est	CI	Est	CI	Est	CI	Est	CI	Est	CI	Est	CI	Est	CI
Tanana	51	27	0	0	0	0	38	20	0	0	0	0	0	0
Stevens Village	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Beaver	1	2	0	0	0	0	0	0	0	0	0	0	0	0
Fort Yukon/Birch Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Venetie/Chalkyitsik	0	0	0	0	0	0	0	0	0	0	0	0	0	0
District 5 total	53	27	0	0	0	0	38	19	0	0	0	0	0	0
Survey total	11,546	2,288	1,447	643	0	0	795	983	16,458	3,746	70	28	0	0

Note: Estimates include only those fish harvested for subsistence purposes in surveyed communities and do not include fish retained from commercial, test fishery donations, funerary permits, or harvests from permit areas. Differences between estimates and totals were due to rounding during analyses.

Appendix A7.–Estimated total number of households in surveyed communities, by harvest level, including community and district totals, Yukon Area, 2024.

Community	Unknown				Do not fish				Light harvester				Medium harvester				Heavy harvester			
	<i>N</i>	<i>S</i>	<i>n</i>	% <i>S</i>	<i>N</i>	<i>S</i>	<i>n</i>	% <i>S</i>	<i>N</i>	<i>S</i>	<i>n</i>	% <i>S</i>	<i>N</i>	<i>S</i>	<i>n</i>	% <i>S</i>	<i>N</i>	<i>S</i>	<i>n</i>	% <i>S</i>
Hooper Bay	31	31	13	42	55	16	7	44	94	28	15	54	64	64	42	66	1	1	1	100
Scammon Bay	9	9	5	56	23	7	4	57	49	15	14	93	40	40	34	85	–	–	–	–
Coastal District total	40	40	18	45	78	23	11	48	143	43	29	67	104	104	76	73	1	1	1	100
Nunam Iqua	8	8	4	50	12	4	3	75	15	5	8	160	14	14	10	71	–	–	–	–
Alakanuk	30	30	20	67	29	9	10	111	58	17	21	124	46	46	39	85	2	2	2	100
Emmonak	35	35	23	66	55	27	23	85	77	39	34	87	56	56	46	82	–	–	–	–
Kotlik	34	34	19	56	13	5	3	60	49	15	26	173	45	45	35	78	1	1	1	100
District 1 total	107	107	66	62	109	45	39	87	199	76	89	117	161	161	130	81	3	3	3	100
Mountain Village	33	33	18	55	44	13	15	115	58	18	20	111	48	48	35	73	–	–	–	–
Pitkas Point	6	6	3	50	4	4	2	50	9	9	6	67	11	11	10	91	–	–	–	–
St. Mary's	32	32	16	50	21	6	6	100	50	16	14	88	49	49	44	90	2	2	2	100
Pilot Station	20	20	8	40	35	18	14	78	50	25	22	88	35	35	33	94	1	1	1	100
Marshall	19	19	11	58	14	5	4	80	37	11	15	136	33	33	24	73	1	1	1	100
District 2 total	110	110	56	51	118	46	41	89	204	79	77	97	176	176	146	83	4	4	4	100
Russian Mission	16	16	10	62	16	5	4	80	35	11	11	100	16	16	13	81	–	–	–	–
Holy Cross	14	14	5	36	9	5	4	80	20	10	11	110	13	13	11	85	–	–	–	–
Shageluk	5	5	2	40	9	9	6	67	14	14	11	79	5	5	5	100	–	–	–	–
District 3 total	35	35	17	49	34	19	14	74	69	35	33	94	34	34	29	85	0	0	0	–
Anvik	–	–	–	–	4	4	4	100	12	12	8	67	6	6	6	100	1	1	1	100
Grayling	6	6	3	50	9	3	4	133	20	7	6	86	16	16	13	81	–	–	–	–
Kaltag	12	12	7	58	9	4	5	125	22	7	10	143	11	11	7	64	–	–	–	–
Nulato	5	5	5	100	11	4	3	75	42	13	12	92	18	18	13	72	–	–	–	–
Koyukuk	5	5	1	20	8	3	3	100	22	7	8	114	6	6	5	83	2	2	2	100
Galena	24	24	17	71	40	13	10	77	62	20	16	80	13	13	12	92	3	3	3	100
Ruby	10	10	7	70	18	5	8	160	10	4	6	150	8	8	4	50	1	1	0	0
Huslia	13	13	9	69	38	12	10	83	20	6	7	117	8	8	6	75	4	4	3	75
Hughes	10	10	5	50	14	14	11	79	8	8	5	62	4	4	3	75	1	1	1	100
Allakaket	20	20	5	25	19	5	8	160	13	4	9	225	4	4	1	25	3	3	2	67
Alatna	2	2	0	0	3	3	2	67	2	2	0	0	–	–	–	–	–	–	–	–
Bettles	1	1	0	0	13	13	3	23	–	–	–	–	–	–	–	–	–	–	–	–
District 4 total	108	108	59	55	186	83	71	86	233	90	87	97	94	94	70	74	15	15	12	80

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Community	Unknown				Do not fish				Light harvester				Medium harvester				Heavy harvester			
	<i>N</i>	<i>S</i>	<i>n</i>	% <i>S</i>	<i>N</i>	<i>S</i>	<i>n</i>	% <i>S</i>	<i>N</i>	<i>S</i>	<i>n</i>	% <i>S</i>	<i>N</i>	<i>S</i>	<i>n</i>	% <i>S</i>	<i>N</i>	<i>S</i>	<i>n</i>	% <i>S</i>
Tanana	24	24	14	58	21	11	10	91	31	15	15	100	13	13	10	77	10	10	9	90
Stevens Village	9	9	2	22	6	6	1	17	6	6	1	17	–	–	–	–	3	3	3	100
Birch Creek	3	3	2	67	10	10	8	80	2	2	1	50	–	–	–	–	–	–	–	–
Beaver	5	5	2	40	7	7	4	57	17	17	12	71	3	3	3	100	–	–	–	–
Fort Yukon	39	39	22	56	93	29	31	107	50	16	14	88	20	20	15	75	11	11	8	73
Venetie	30	30	16	53	31	9	16	178	11	3	4	133	11	11	8	73	2	2	2	100
Chalkyitsik	5	5	2	40	18	18	14	78	5	5	4	80	1	1	1	100	–	–	–	–
District 5 total	115	115	60	52	186	90	84	93	122	64	51	80	48	48	37	77	26	26	22	85
Survey totals	515	515	276	54	711	306	260	85	970	387	366	95	617	617	488	79	49	49	42	86

Note: The following notations were used in the above table: *N* = the total number of households, *S* = the number of households selected, *n* = the number of households contacted, and %*S* = the percentage of the selected households that were contacted in each harvest group in surveyed communities. Dashes indicate indefinable values. The estimated total number of people includes a 95% confidence interval (CI). Differences between estimates and totals were due to rounding during analyses.

Appendix A8.—Estimated 95% confidence intervals of subsistence harvest of salmon species by fishing location in surveyed districts, Yukon Area, 2024.

		Harvest districts/subdistricts ^a											Harvest river drainages						Total by		
Species	District	Coastal	1	2	3	4A	4B	4C	5A	5B	5C	5D			6	Innoko	Koyukuk	Teedriinjik	Porcupine	Draanjik	district
												down	up								
Chinook	Coastal	171	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	171
	1	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
	2	0	0	91	69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	114
	3	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
	4	0	0	0	0	5	27	0	0	0	0	0	0	0	0	0	0	0	0	0	27
	5	0	0	0	0	0	0	0	0	4	0	230	0	0	0	0	0	68	0	0	240
Survey totals		171	50	91	70	5	27	0	0	4	0	230	0	0	0	0	0	68	0	0	322
Summer chum	Coastal	2,405	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,405
	1	0	2,890	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,890
	2	0	32	2,057	1,911	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,808
	3	0	0	0	717	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	717
	4	0	0	0	0	975	1,000	0	0	0	0	0	0	0	0	106	0	0	0	0	1,400
	5	0	0	0	0	0	0	0	0	47	0	2	0	0	0	0	0	0	0	0	47
Survey totals		2,405	2,890	2,057	2,041	975	1,000	0	0	47	0	2	0	0	0	106	0	0	0	0	4,949

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		Harvest districts/subdistricts ^a													Harvest river drainages					Total by district
Species	District	Coastal	1	2	3	4A	4B	4C	5A	5B	5C	5D		6	Innoko	Koyukuk	Teedriinjik	Porcupine	Draanjik	
												down	up							
Fall chum	Coastal	174	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	174
	1	0	117	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	117
	2	0	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	83
	3	0	0	0	121	0	0	0	0	0	0	0	0	0	0	0	0	0	0	121
	4	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5
	5	0	0	0	0	0	0	0	981	280	0	58	0	0	0	0	0	71	0	1,024
Survey totals		174	117	24	121	5	0	0	981	280	0	58	0	0	0	0	0	71	0	1,056
Coho	Coastal	152	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	152
	1	0	272	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	272
	2	0	0	151	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	151
	3	0	0	0	136	0	0	0	0	0	0	0	0	0	0	0	0	0	0	136
	4	0	0	0	0	5	667	0	0	0	0	0	0	0	0	0	0	0	0	667
	5	0	0	0	0	0	0	0	0	23	0	0	0	0	0	0	0	0	0	23
Survey totals		152	272	151	136	5	667	0	0	23	0	0	0	0	0	0	0	0	0	764
Pink	Coastal	1,253	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,253
	1	0	767	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	767
	2	0	61	210	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	300
	3	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
	4	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	20
	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Survey totals		1,253	769	210	2	20	0	0	0	0	0	0	0	0	0	0	0	0	0	1,500

^a Harvest near Fort Yukon was divided according to whether harvest occurred downriver 5D-down or upriver 5D-up of the confluence of the Porcupine and Yukon Rivers.

APPENDIX B: 2024 DATA COLLECTION INSTRUMENTS

WHAT GEAR DID YOU USE? (circle gear/s): SET GILLNET FISH WHEEL DRIFT GILLNET DIP NET OTHER: _____

2024		October					
SUN	MON	TUE	WED	THU	FRI	SAT	
29	30	01	02	03	04	05	
06	07	08	09	10	11	12	
13	14	15	16	17	18	19	
20	21	22	23	24	25	26	
27	28	29	30	31	01	02	
03	04						

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Yukon Area Subsistence Salmon Harvest, 2013-2023

Year	Chinook	Summer Chum Salmon	Fall Chum Salmon	Coho Salmon
2013	115,000	85,000	15,000	15,000
2014	95,000	80,000	10,000	15,000
2015	85,000	80,000	10,000	15,000
2016	85,000	80,000	10,000	15,000
2017	85,000	80,000	10,000	15,000
2018	85,000	80,000	10,000	15,000
2019	65,000	65,000	10,000	15,000
2020	45,000	45,000	10,000	15,000
2021	25,000	25,000	10,000	15,000
2022	5,000	5,000	10,000	15,000
2023	5,000	5,000	10,000	15,000

Upper River Winners : George Yaska; Huslia, Joyce Huntington; Galena, Robert Walker; Anvik, Pollock Simon; Allakaket; Cory Hanson; Venetie, Samson Peter; Ft. Yukon.

Note: Area-specific versions of the calendar were used for lower and upper portions of the drainage. Different versions highlighted specific fishing areas and gear.

2024 ADF&G Annual Subsistence Salmon Harvest Survey	2024 ADF&G Annual Subsistence Salmon Harvest Survey
<p style="text-align: right; font-size: small;">«Pass_Code»</p> <p>This survey is <i>CONFIDENTIAL</i> and is used to estimate salmon harvests in your community</p> <p>The estimate is used to understand the Yukon River salmon population, amounts needed for subsistence and to reconstruct the run size.</p> <p>Your Information (Please update if necessary)</p> <p>Name: «Name» _____</p> <p>Address: «Address» _____</p> <p style="padding-left: 40px;">«Mail_Community», «State», «Zip_Code_4» _____</p> <p>Phone Number: «Phone_Number» _____</p> <hr/> <p>1. How many people live in your household?</p> <p style="text-align: center;">_____</p> <hr/> <p>2. Did anyone in your household subsistence fish or cut salmon this year? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p style="text-align: right; font-size: small;">If NO skip to question 7.</p> <hr/> <p>3. How many salmon did your household harvest? Please include in this total number:</p> <ul style="list-style-type: none"> Salmon cut for your family Salmon cut for dogs Kept from commercial fishing Shared with other families Lost (to flies, birds, weather or disease) <p>Chinook Salmon: King: Tawakwak luk Choo, Tawakwak. _____</p> <p>Summer Chum Salmon: Tawakwak luk Choo, Tawakwak. _____</p> <p>Fall Chum Salmon: Silvers Tawakwak luk Choo, Tawakwak. _____</p> <p>Coho Salmon: Gakwak, Neechuk, Gakwak. _____</p> <p>Pink Salmon: Gakwak, Amakwak, Neechuk. _____</p> <hr/> <p>4. What gear(s) did you use to harvest salmon?</p> <p><input type="checkbox"/> Set Net <input type="checkbox"/> Drift Net <input type="checkbox"/> Fishwheel</p> <p><input type="checkbox"/> Dipnet <input type="checkbox"/> Beach Seine</p> <p><input type="checkbox"/> Hook and Line <input type="checkbox"/> Other _____</p>	<hr/> <p>5. What mesh size did you use?</p> <p><input type="checkbox"/> Whitefish net (4 inch or smaller)</p> <p><input type="checkbox"/> Chum net (bigger than 4 inch up to 6 inch)</p> <p><input type="checkbox"/> King net (bigger than 6 inch up to 7.5 inch)</p> <p><input type="checkbox"/> I don't know</p> <hr/> <p>6. Where do you fish?</p> <p><input type="checkbox"/> Coastal Area <input type="checkbox"/> District 1 <input type="checkbox"/> District 2</p> <p><input type="checkbox"/> District 3 <input type="checkbox"/> Subdistrict 4A <input type="checkbox"/> Subdistrict 4B</p> <p><input type="checkbox"/> Subdistrict 4C <input type="checkbox"/> Subdistrict 5A <input type="checkbox"/> Subdistrict 5B</p> <p><input type="checkbox"/> Subdistrict 5C</p> <p><input type="checkbox"/> Subdistrict 5D-downstream of Ft. Yukon</p> <p><input type="checkbox"/> Subdistrict 5D-upstream of Ft. Yukon</p> <p><input type="checkbox"/> Innoko River <input type="checkbox"/> Koyukuk River</p> <p><input type="checkbox"/> Porcupine River <input type="checkbox"/> Black River/Daganik (Chalkyitsik)</p> <p><input type="checkbox"/> Tanana River <input type="checkbox"/> Near my community</p> <p><input type="checkbox"/> Chandalak (Tadnaitik) <input type="checkbox"/> Other _____</p> <hr/> <p>7. Did your household catch any OTHER FISH besides salmon? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p style="text-align: right; font-size: small;">If NO skip to question 8</p> <hr/> <p>Broad Whitefish: Gakwak, Gakwak, Gakwak. _____</p> <p>Humpback Whitefish: Gakwak, Gakwak, Gakwak. _____</p> <p>Cisco: Gakwak, Gakwak, Gakwak. _____</p> <p>Sheefish: Gakwak, Gakwak. _____</p> <p>Burbot: Lush, Lush. _____</p> <p>Northern Pike: Gakwak. _____</p> <p>Blackfish: Circle units (#, lbs., or gal) _____</p> <p>Arctic Grayling _____</p> <hr/> <p>Lamprey (eels) Circle units (#, lbs., or gal) _____</p> <p>Tomcod Circle units (#, lbs., or gal) _____</p> <p>Herring Circle units (#, lbs., or gal) _____</p> <p>Roe on Kelp Circle units (#, lbs., or gal) _____</p>

-continued-

Yukon Area Salmon Harvest Survey

- Pink _____

[illegible]

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Appendix B3.–Yukon Area postseason subsistence salmon harvest survey questions from electronic app, 2024.

Primary question	Level 1 relevant question	Level 2 relevant question
Is your address and phone number still...?		
How many people live in your household?		
Did anyone in your household subsistence fish or cut salmon this year?		
	How many households helped to catch these fish?	
	How many total salmon did you or your fishing GROUP catch?	
	What District/Area did you fish?	
	How many fish did you keep for your household from this Harvest Area?	Enter number of household harvest by species
	What is our household's main fishing GEAR?	Select gear from drop down menu
	Secondary fishing GEAR?	Select gear from drop down menu
	Of the X number of Chinook you harvested, what gear did you use?	Enter Chinook harvest by gear type.
	Of the X number of summer chum you harvested, what gear did you use?	Enter summer chum harvest by gear type.
	Of your household harvest did you share any salmon with family or friends outside your household?	Enter number of shared salmon by species.
	Or did you lose any whole salmon?	Enter number of lost salmon by species.
Was your household GIVEN any salmon from a subsistence or commercial fisher, or ADF&G test fish?		
	Subsistence received	Enter number of subsistence salmon received.
	Commercial received	Enter number of commercial salmon received.
	ADF&G received	Enter number of test fish salmon received.
	Outside Yukon Area	Enter number of salmon received from outside the Yukon Area.


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Appendix B3.–Page 2 of 2.

Primary question	Level 1 relevant question	Level 2 relevant question
Did your household catch any OTHER FISH besides salmon?	<p>Select all that apply (Asked each species and surveyor selects harvested species)</p> <p>What was the main gear used to catch OTHER fish species (not salmon)?</p>	<p>Enter number of other fish harvest by species.</p> <p>Select gear from drop down menu</p>
Does your household have any dogs?	<p>How many dogs does your household own?</p> <p>Does your household feed any WHOLE salmon to dogs?</p>	<p>How many WHOLE salmon did your household feed to dogs?</p>
Do you have a calendar to return?		
Comments and/or concerns	<p>We know that you don't have the salmon that you would like to have to get through the winter. Does your area harvest moose or caribou? We know that this was a difficult year with the salmon not returning, do you have any questions or comments for the managers?</p> <p>Would you like a fishery manager/biologist to contact you regarding your questions or concerns?</p>	

<h2 style="margin: 0;">Household Application</h2> <h3 style="margin: 0;">Yukon Area Subsistence and Personal Use Fishing</h3> <p style="margin: 0;">Alaska Department of Fish and Game, Division of Commercial Fisheries 1300 College Road, Fairbanks, AK 99701 Telephone (907) 459-7274</p>			<p><i>Issuing officer use only</i></p> <p>Permit Number: _____</p> <p>Date Issued: _____</p> <p>Issuing Officer: _____</p>
<p><i>Alaska Residents Only</i></p> <p>First Name: _____ Middle Initial: _____ Last Name: _____ Suffix: _____</p> <p>Date of Birth: _____ (mm/dd/yyyy) Driver's License State: _____ Number: _____ Gender: _____</p> <p>What month and year did Alaska Residency begin? _____ Or Nonresident Military (Y/N): _____</p> <p>Telephone: _____ Email: _____</p> <p>Mailing Address: _____</p> <p><input type="checkbox"/> Same as mailing address City _____ State _____ Zipcode _____</p> <p>Physical Address: _____</p> <p>City _____ State _____ Zipcode _____</p> <p>Total Household _____ Names of Other _____</p> <p>Member(s): _____ Household Member(s): _____</p> <p style="font-size: small;">(Include yourself) (Names of other household members authorized to fish this permit)</p>			
<p>Select permit area (check one box):</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p>Tanana River</p> <p><input type="checkbox"/> SA- Subsistence, Manley</p> <p><input type="checkbox"/> SB- Subsistence, Minto, Nenana</p> <p><input type="checkbox"/> SK- Subsistence, Kantishna River</p> <p><input type="checkbox"/> PC- Personal Use, Fairbanks, North Pole</p> <p>PC requires Alaska Sport Fish License Number: _____</p> </div> <div style="width: 48%;"> <p>Yukon River</p> <p><input type="checkbox"/> SR- Subsistence, Rampart*</p> <p><input type="checkbox"/> SY- Subsistence, Bridge Area*</p> <p><input type="checkbox"/> SE- Subsistence, Circle to Canadian border*</p> <p style="font-size: small;">*contact Fairbanks office if fishing year-round (salmon and non-salmon)</p> </div> </div> <p>Number of dogs in household: _____ Do you feed whole salmon to dogs? (Y/N): _____</p>			
<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p>Primary Fishing Gear (check one box):</p> <p><input type="checkbox"/> Set gillnet greater than 2 to 4 inch mesh</p> <p><input type="checkbox"/> Set gillnet greater than 4 to 6 inch mesh (chum)</p> <p><input type="checkbox"/> Set gillnet greater than 6 and up to 7.5 inch mesh (king)</p> <p><input type="checkbox"/> Fish wheel</p> </div> <div style="width: 48%;"> <p>Secondary Fishing Gear (check one box):</p> <p><input type="checkbox"/> Set gillnet greater than 2 to 4 inch mesh</p> <p><input type="checkbox"/> Set gillnet greater than 4 to 6 inch mesh (chum)</p> <p><input type="checkbox"/> Set gillnet greater than 6 and up to 7.5 inch mesh (king)</p> <p><input type="checkbox"/> Fish wheel</p> </div> </div>			
<p>Select permit area (check one box):</p> <p><input type="checkbox"/> ST- Subsistence, Tolovana River drainage Pike (Minto, lower Chatanika)</p> <p><input type="checkbox"/> SU- Subsistence, Upper Tanana River drainage (Tok area)</p> <p>Number of dogs in household: _____ Do you feed whole salmon to dogs? (Y/N): _____</p> <p><input type="checkbox"/> SF- Subsistence, Koyukuk (South, Middle forks)</p> <p>Number of dogs in household: _____ Do you feed whole salmon to dogs? (Y/N): _____</p> <p><input type="checkbox"/> PW- Personal Use Whitefish and Sucker, Tanana River drainage (Fairbanks, North Pole, Delta Junction) <i>not available online, contact Fairbanks office for application</i></p>			
<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p>Primary Fishing Gear (check one box):</p> <p><input type="checkbox"/> Set gillnet 2 inch mesh or less</p> <p><input type="checkbox"/> Set gillnet greater than 2 to 4 inch mesh</p> <p><input type="checkbox"/> Fyke nets (hoop traps)</p> <p><input type="checkbox"/> Jigging gear – ice fishing only</p> <p><input type="checkbox"/> Dip net</p> <p><input type="checkbox"/> Fish wheel</p> <p><input type="checkbox"/> Other: _____</p> </div> <div style="width: 48%;"> <p>Secondary Fishing Gear (check one box):</p> <p><input type="checkbox"/> Set gillnet 2 inch mesh or less</p> <p><input type="checkbox"/> Set gillnet greater than 2 to 4 inch mesh</p> <p><input type="checkbox"/> Fyke nets (hoop traps)</p> <p><input type="checkbox"/> Jigging gear – ice fishing only</p> <p><input type="checkbox"/> Dip net</p> <p><input type="checkbox"/> Fish wheel</p> <p><input type="checkbox"/> Other: _____</p> </div> </div>			
<p>Submit a permit application to ADF&G office in Fairbanks, Tok, Delta, or Anchorage to receive a permit. Permits are also available online at the Fish and Game Online Store at www.adfg.alaska.gov/Store. Household permits are free of charge and available to Alaska Residents.</p>			

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Alaska Department of Fish & Game
2024 Household Subsistence Fishing Permit
Yukon River Bridge Area

*This permit is valid through
 October 15th, 2024*

Permit Number

Last Name

First Name

M.I.

☐ Alaska Resident
Alaska Residents ONLY

Mailing Address

City

State

Zip Code

Phone Number

Driver's License #

State

E-Mail Address

Names of other household members authorized to fish this permit:

Subsistence Permit Area: Under authority of this permit, fish may be taken from the Yukon River drainage from the mouth of Hess Creek upstream to the mouth of Dall River. This includes the Yukon Bridge area. See closed waters listed in regulation.

Fishing Schedule Hotline: 459-7387 (in Fairbanks) or 1 (866) 479-7387 (Toll free)

Fishers must abide by the current fishing schedule and allowable gear. Advisory Announcements are available at the Fairbanks office or at www.cfnews.adfg.alaska.gov, or you can sign up to receive announcements by email at this website.

Permit Conditions:

- All regulations pertaining to subsistence fishing in the area must be followed. See regulation summary.
- Anyone fishing this household's gear must be named above and carry this permit on their person during any fishing activity. Household members participating in fishing must be Alaska Residents.
- Fish taken under authority of this permit must be recorded on the catch form provided before leaving the fishing site on the same day the fish are landed.

Permit expires October 15. Final harvest must be reported within 10 days after expiration. Even if you did not fish, you must complete a report. Reporting can be completed by returning permit to ADF&G 1300 College Road, Fairbanks, AK 99701. You may also visit www.adfg.alaska.gov/harvest to report final harvest or select 'mark permit as not fished'. Failure to report this household's harvest information may result in denial of a household permit next year.

For questions, call the Fairbanks office (907) 459-7274

This permit is not valid unless signed and dated. By completing this permit application I am agreeing to allow ADF&G to publish the number of fish reported using this permit. No names or addresses will be published.

I hereby claim I am a resident of Alaska and that the information I have provided on this permit is true as witnessed by my signature. I have read and will abide by all conditions of this permit.

Signature of Permittee

Date

APPENDIX C: HISTORICAL HARVEST INFORMATION

Appendix C1.–Chinook salmon subsistence harvest totals by fishing district and community of residence, and personal use harvest total for District 6, Yukon Area, 2014–2024.

Community	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2014–2018	2019–2023
												Average	Average
Hooper Bay	455	534	284	314	456	784	436	13	55	24	136	409	262
Scammon Bay	108	432	602	747	666	1,233	1,040	17	116	103	163	511	502
Coastal District total	563	966	886	1,061	1,122	2,017	1,476	30	171	127	299	920	764
Nunam Iqua	62	210	190	235	78	470	381	78	106	23	43	155	212
Alakanuk	214	436	465	838	414	1,818	1,394	229	87	166	38	473	739
Emmonak	463	612	939	1,731	1,203	2,419	1,033	346	208	85	35	990	818
Kotlik	617	661	1,158	1,767	1,556	2,333	912	78	0	20	11	1,152	669
District 1 subtotal	1,356	1,919	2,752	4,571	3,251	7,040	3,720	731	401	294	127	2,770	2,437
Mountain Village	178	370	809	1,060	1,021	1,238	1,025	152	35	13	58	688	493
Pitkas Point	79	44	156	492	365	1,096	249	13	11	6	4	227	275
St. Mary's	68	261	1,032	919	1,172	2,735	1,500	220	59	65	23	690	916
Pilot Station	163	382	652	818	581	1,919	1,034	321	251	195	206	519	744
Marshall	128	128	512	1,554	914	1,261	924	14	56	9	24	647	453
District 2 subtotal	616	1,185	3,161	4,843	4,053	8,249	4,732	720	412	288	315	2,772	2,880
Russian Mission	16	365	321	1,368	1,043	1,561	432	29	10	29	7	623	412
Holy Cross	0	68	557	822	580	1,483	192	ND	ND	ND	ND	405	838
Shageluk	32	14	23	86	181	262	90	ND	5	0	ND	67	89
Other District 3 ^a	NA	NA	NA	NA	NA	NA	NA	9	0	0	0	NA	3
District 3 subtotal	48	447	901	2,276	1,804	3,306	714	38	15	29	7	1,095	820
Lower Yukon River total	2,020	3,551	6,814	11,690	9,108	18,595	9,166	1,489	828	611	449	6,637	6,138
Anvik	0	58	241	709	566	655	242	ND	0	0	7	315	224
Grayling	3	22	370	749	888	1,446	264	ND	ND	0	ND	406	570
Kaltag	10	119	1,358	1,959	570	1,225	577	ND	ND	ND	0	803	901
Nulato	0	33	1,957	2,132	1,260	2,396	1,748	ND	ND	0	ND	1,076	1,381
Koyukuk	52	26	612	648	859	1,088	268	ND	ND	19	ND	439	458
Galena	1	372	993	2,224	1,262	2,895	695	7	ND	21	20	970	905
Ruby	6	68	344	568	1,126	1,036	562	ND	ND	ND	ND	422	799
Other District 4 ^b	NA	NA	NA	NA	NA	NA	NA	12	75	3	25	NA	30
District 4 subtotal	72	698	5,875	8,989	6,531	10,741	4,356	19	75	43	52	4,433	3,047
Huslia/Hughes	51	38	94	454	170	871	186	0	0	3	0	161	212
Allakaket/Alatna/Bettles	9	35	46	31	48	134	176	0	0	0	0	34	62
Koyukuk River subtotal	60	73	140	485	218	1,005	362	0	0	3	0	195	274
District 4 total (incl. Koyukuk R.)	132	771	6,015	9,474	6,749	11,746	4,718	19	75	46	52	4,628	3,321

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Appendix C1.–Page 2 of 2.

Community	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2014–2018	2019–2023
												Average	Average
Tanana	88	141	2,129	2,961	5,108	3,408	1,905	142	196	173	145	2,085	1,165
Rampart/Stevens Village	0	1	228	155	284	446	485	5	86	69	55	134	218
Fairbanks (FNSB) ^c	14	263	1,318	2,521	1,475	2,479	1,623	315	277	280	267	1,118	995
Beaver	0	69	165	585	332	1,413	304	18	0	0	ND	230	347
Fort Yukon/Birch Creek	93	480	1,225	4,224	4,704	4,563	757	5	4	140	364	2,145	1,094
Circle/Central	0	185	260	744	683	694	175	5	0	0	17	374	175
Eagle	76	395	864	1,730	1,011	788	280	38	52	0	32	815	232
Other District 5 ^d	0	7	306	830	474	944	368	22	73	68	13	323	295
District 5 subtotal	271	1,541	6,495	13,750	14,071	14,735	5,897	550	688	730	893	7,226	4,520
Venetie/Chalkyitsik	17	308	586	780	443	660	32	0	0	50	54	427	148
Teedriinjik/Draanjik R. subtotal	17	308	586	780	443	660	32	0	0	50	54	427	148
District 5 total ^e	288	1,849	7,081	14,530	14,514	15,395	5,929	550	688	780	947	7,652	4,668
Manley	92	121	230	103	210	94	33	ND	ND	ND	ND	151	64
Minto	0	23	35	101	ND	35	5	ND	ND	ND	ND	40	13
Nenana/Healy	139	263	464	309	181	404	230	6	0	0	3	271	128
Fairbanks (FNSB) ^f	41	33	87	144	53	82	140	1	1	0	0	72	45
Other District 6 ^g	11	0	0	0	49	9	17	0	1	0	0	12	5
District 6 Tanana R. total	283	440	816	657	493	624	425	7	2	0	3	538	212
Upper Yukon River total	703	3,060	13,912	24,661	21,756	27,765	11,072	576	765	826	1,002	12,818	8,201
Yukon Area total ^h	3,286	7,577	21,612	37,412	31,986	48,377	21,714	2,095	1,764	1,564	1,750	20,375	15,103
Personal use (District 6) ⁱ	1	5	57	125	206	244	112	0	0	0	0	79	71
Yukon Area total with personal use	3,287	7,582	21,669	37,537	32,192	48,621	21,826	2,095	1,764	1,564	1,750	20,453	15,174

Note: Subsistence harvest data were estimated from postseason survey, returned permits, and test fishery projects. NA indicates not applicable. ND indicates no data.

^a Other District 3 included residents of District 3 combined due to confidentiality of low number of households fished.

^b Other District 4 included residents of District 4 combined due to confidentiality of low number of households fished.

^c Harvests by subsistence permit holders who resided in Fairbanks North Star Borough FNSB and fished in District 5 near the Yukon River bridge crossing.

^d Other permit holders who fished in District 5 but did not reside in the communities listed.

^e Included Teedriinjik formerly Chandalar River and Draanjik formerly Black River.

^f Harvests by subsistence permit holders who resided in FNSB and fished in the Tanana River.

^g Other permit holders who fished in District 6 but did not reside in the communities listed, or harvests from communities with less than 3 participants.

^h Area total includes Coastal District, historically Yukon River total consisted of Lower and Upper Yukon Areas, which were used in assessing border passage objectives under the Yukon Salmon Agreement.

ⁱ Harvest from the personal use fishing area on the Tanana River near Fairbanks. Not included in communities or totals above.

Appendix C2.—Summer chum salmon subsistence harvest totals by fishing district and community of residence, and personal use harvest total for District 6, Yukon Area, 2014–2024.

Community	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2014–2018	2019–2023
												Average	Average
Hooper Bay	13,236	11,870	6,324	7,818	8,346	2,999	3,450	290	1,999	4,574	3,888	9,519	2,662
Scammon Bay	6,068	8,598	5,520	6,033	6,850	4,037	3,929	13	1,142	1,953	4,654	6,614	2,215
Coastal District total	19,304	20,468	11,844	13,851	15,196	7,036	7,379	303	3,141	6,527	8,542	16,133	4,877
Nunam Iqua	2,010	2,239	2,130	1,759	1,549	1,105	1,071	16	187	233	546	1,937	522
Alakanuk	9,120	4,469	6,527	4,993	5,448	6,276	3,924	66	402	4,614	3,321	6,111	3,056
Emmonak	7,143	9,973	8,976	6,933	7,036	8,404	5,463	170	1,811	3,819	5,715	8,012	3,933
Kotlik	5,621	4,960	8,925	8,776	7,007	6,994	4,831	102	60	723	560	7,058	2,542
District 1 subtotal	23,894	21,641	26,558	22,461	21,040	22,779	15,289	354	2,460	9,389	10,142	23,119	10,054
Mountain Village	7,059	6,063	8,782	7,230	5,414	4,320	3,180	39	135	2,643	2,106	6,910	2,063
Pitkas Point	1,588	1,225	1,485	1,489	1,390	1,103	478	21	18	600	358	1,435	444
St. Mary's	5,570	8,216	7,379	4,967	4,486	7,349	4,087	74	97	1,381	1,854	6,124	2,598
Pilot Station	5,728	4,702	4,796	4,952	4,015	6,871	3,881	344	453	3,047	3,915	4,839	2,919
Marshall	6,189	4,351	5,180	5,166	3,311	2,703	2,009	61	137	896	2,232	4,839	1,161
District 2 subtotal	26,134	24,557	27,622	23,804	18,616	22,346	13,635	539	840	8,567	10,465	24,147	9,185
Russian Mission	3,181	2,626	1,798	2,645	2,245	1,483	574	49	50	464	1,091	2,499	524
Holy Cross	97	421	991	242	306	199	174	ND	ND	95	ND	411	156
Shageluk	470	80	275	804	495	673	113	ND	9	ND	ND	425	265
Other District 3 ^a	NA	NA	NA	NA	NA	NA	NA	32	0	25	0	NA	19
District 3 subtotal	3,748	3,127	3,064	3,691	3,046	2,355	861	81	59	584	1,091	3,335	788
Lower Yukon River total	53,776	49,325	57,244	49,956	42,702	47,480	29,785	974	3,359	18,540	21,698	50,601	20,028
Anvik	2,052	777	1,117	330	437	223	123	ND	0	122	167	943	117
Grayling	1,617	509	878	738	779	879	58	ND	ND	92	ND	904	343
Kaltag	954	216	467	185	25	180	228	ND	ND	18	4	369	142
Nulato	158	6	1,001	1,588	241	157	39	ND	ND	ND	ND	599	98
Koyukuk	300	0	119	96	150	21	24	ND	ND	13	ND	133	19
Galena	377	1,059	1,689	1,228	349	1,223	58	2	ND	0	601	940	321
Ruby	29	88	678	107	970	464	0	ND	ND	ND	ND	374	232
Other District 4 ^b	NA	NA	NA	NA	NA	NA	NA	0	56	134	14	NA	63
District 4 subtotal	5,487	2,655	5,949	4,272	2,951	3,147	530	2	56	379	786	4,263	823
Huslia/Hughes	3,214	4,609	4,764	9,295	4,726	3,915	1,804	2	146	20	1,222	5,322	1,177
Allakaket/Alatna/Bettles	1,280	2,513	3,015	2,857	4,844	472	1,705	0	0	25	92	2,902	440
Koyukuk River subtotal	4,494	7,122	7,779	12,152	9,570	4,387	3,509	2	146	45	1,314	8,223	1,618
District 4 total (incl. Koyukuk R.)	9,981	9,777	13,728	16,424	12,521	7,534	4,039	4	202	424	2,100	12,486	2,441

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Community	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2014–2018	2019–2023
												Average	Average
Tanana	2,612	3,162	3,685	3,086	2,733	530	338	18	3	278	107	3,056	233
Rampart/Stevens Village	70	0	629	10	1	0	3	0	0	28	10	142	6
Fairbanks (FNSB) ^c	300	575	461	1,413	521	179	65	10	15	48	41	654	63
Beaver	0	0	23	98	8	27	0	0	0	0	ND	26	5
Fort Yukon/Birch Creek	19	0	12	98	44	12	0	0	4	0	1	35	3
Circle/Central	0	0	0	0	0	0	0	0	0	0	0	0	0
Eagle	0	0	0	0	0	0	0	0	0	0	0	0	0
Other District 5 ^d	91	8	180	321	37	55	17	5	0	14	11	127	18
District 5 subtotal	3,092	3,745	4,990	5,026	3,344	803	423	33	22	368	170	4,039	330
Venetie/Chalkyitsik	16	0	0	0	114	0	0	0	0	7	0	26	1
Teedriinjik/Draanjik R. subtotal	16	0	0	0	114	0	0	0	0	7	0	26	1
District 5 total ^e	3,108	3,745	4,990	5,026	3,458	803	423	33	22	375	170	4,065	331
Manley	182	9	32	16	78	3	7	ND	ND	ND	ND	63	3
Minto	24	0	4	234	ND	0	1	ND	ND	ND	ND	66	1
Nenana/Healy	275	60	19	603	440	409	23	4	36	0	180	279	94
Fairbanks (FNSB) ^f	237	183	41	271	82	31	84	0	0	0	13	163	23
Other District 6 ^g	13	0	0	7	5	0	0	0	0	0	0	5	0
District 6 Tanana R. total	731	252	96	1,131	605	443	115	4	36	0	193	563	120
Upper Yukon River total	13,820	13,774	18,814	22,581	16,584	8,780	4,577	41	260	799	2,463	17,115	2,891
Yukon Area total ^h	86,900	83,567	87,902	86,388	74,482	63,296	41,741	1,318	6,760	25,866	32,703	83,848	27,796
Personal use (District 6) ⁱ	235	220	176	438	515	294	67	0	0	0	18	317	72
Yukon Area total with personal use	87,135	83,787	88,078	86,826	74,997	63,590	41,808	1,318	6,760	25,866	32,721	84,165	27,868

Note: Subsistence harvest data were estimated from postseason survey, returned permits, and test fishery projects. NA indicates not applicable. ND indicates no data due to confidentiality.

^a Other District 3 included residents of District 3 combined due to confidentiality of low number of households fished.

^b Other District 4 included residents of District 4 combined due to confidentiality of low number of households fished.

^c Harvests by subsistence permit holders who resided in Fairbanks North Star Borough FNSB and fished in District 5 near the Yukon River bridge crossing.

^d Other permit holders who fished in District 5 but did not reside in the communities listed.

^e Included Teedriinjik formerly Chandalar River and Draanjik formerly Black River.

^f Harvests by subsistence permit holders who resided in FNSB and fished in the Tanana River.

^g Other permit holders who fished in District 6 but did not reside in the communities listed or harvests from communities with less than 3 participants.

ⁱ Harvest from the personal use fishing area on the Tanana River near Fairbanks. Not included in communities or totals above.

Appendix C3.–Fall chum salmon subsistence harvest totals by fishing district and community of residence, and personal use harvest total for District 6, Yukon Area, 2014–2024.

Community	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2014–2018	2019–2023
												Average	Average
Hooper Bay	137	79	105	137	158	210	407	28	130	40	32	123	163
Scammon Bay	115	119	657	416	364	605	245	11	106	118	143	334	217
Coastal District total	252	198	762	553	522	815	652	39	236	158	175	457	380
Nunam Iqua	128	210	111	52	188	102	16	3	14	35	32	138	34
Alakanuk	593	1067	743	424	510	352	108	22	165	147	171	667	159
Emmonak	2,465	3,244	2,501	2,735	2,208	1,868	1,331	117	948	1,523	754	2,631	1,157
Kotlik	886	1,356	1,217	1,370	759	1,929	139	1	81	258	37	1,118	482
District 1 subtotal	4,072	5,877	4,572	4,581	3,665	4,251	1,594	143	1,208	1,963	994	4,553	1,832
Mountain Village	1,484	1,398	1,210	1,560	872	1,180	259	137	143	844	504	1,305	513
Pitkas Point	400	172	232	172	112	139	72	0	0	5	0	218	43
St. Mary's	2,037	1,611	1,088	753	470	844	125	2	0	64	0	1,192	207
Pilot Station	796	1,346	903	1,065	1,116	997	468	296	369	519	387	1,045	530
Marshall	1,100	1,731	1,106	532	415	644	13	0	0	4	35	977	132
District 2 subtotal	5,817	6,258	4,539	4,082	2,985	3,804	937	435	512	1,436	926	4,736	1,425
Russian Mission	365	449	235	671	349	469	0	0	16	105	131	414	118
Holy Cross	1,840	763	583	324	176	171	26	ND	ND	0	ND	737	66
Shageluk	252	176	179	289	174	114	0	ND	9	ND	ND	214	41
Other District 3 ^a	NA	NA	NA	NA	NA	NA	NA	0	0	25	0	NA	8
District 3 subtotal	2,457	1,388	997	1,284	699	754	26	0	25	130	131	1,365	187
Lower Yukon River total	12,346	13,523	10,108	9,947	7,349	8,809	2,557	578	1,745	3,529	2,051	10,655	3,444
Anvik	1,028	680	527	296	500	45	222	ND	12	0	6	606	70
Grayling	1,451	1,184	499	272	750	45	54	ND	ND	73	ND	831	57
Kaltag	2,828	1,255	680	142	66	103	0	ND	ND	ND	0	994	52
Nulato	3,839	2,248	2,681	1,762	869	662	0	ND	ND	0	ND	2,280	221
Koyukuk	998	2,838	297	166	295	287	0	ND	ND	0	ND	919	96
Galena	3,368	2,542	3,319	4,760	1,401	1,129	19	0	0	0	0	3,078	230
Ruby	972	713	526	97	842	242	0	ND	ND	ND	ND	630	121
Other District 4 ^b	NA	NA	NA	NA	NA	NA	NA	0	12	0	0	NA	4
District 4 subtotal	14,484	11,460	8,529	7,495	4,723	2,513	295	0	24	73	6	9,338	581
Huslia/Hughes	927	1,226	954	543	859	420	28	0	62	5	0	902	103
Allakaket/Alatna/Bettles	525	588	551	1,535	362	1,299	42	0	0	0	0	712	268
Koyukuk River subtotal	1,452	1,814	1,505	2,078	1,221	1,719	70	0	62	5	0	1,614	371
District 4 total (incl. Koyukuk R.)	15,936	13,274	10,034	9,573	5,944	4,232	365	0	86	78	6	10,952	952

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Community	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2014–2018	2019–2023
												Average	Average
Tanana	14,131	19,627	21,261	21,952	16,731	12,039	1,158	59	23	395	895	18,740	2,735
Rampart/Stevens Village	6,700	186	4,500	0	1,417	98	20	4	15	4	0	2,561	28
Fairbanks (FNSB) ^c	1,406	2,454	2,143	3,075	2,077	4,104	568	1	132	1	0	2,231	961
Beaver	323	76	228	0	141	17	0	0	0	0	ND	154	3
Fort Yukon/Birch Creek	8,025	6,257	7,728	4,523	3,487	7,153	133	7	0	12	0	6,004	1,461
Circle/Central	1,277	1,652	1,306	2,182	2,877	2,069	9	0	0	0	0	1,859	416
Eagle	17,450	17,185	15,765	19,126	16,539	16,610	0	0	41	0	30	17,213	3,330
Other District 5 ^d	222	229	17	12	175	52	21	0	0	89	0	131	32
District 5 subtotal	49,534	47,666	52,948	50,870	43,444	42,142	1,909	71	211	501	925	48,892	8,967
Venetie/Chalkyitsik	1,663	2,594	5,883	10,574	2,544	2,804	43	0	497	1,769	100	4,652	1,023
Teedriinjik/Draanjik R. subtotal	1,663	2,594	5,883	10,574	2,544	2,804	43	0	497	1,769	100	4,652	1,023
District 5 total ^e	51,197	50,260	58,831	61,444	45,988	44,946	1,952	71	708	2,270	1,025	53,544	9,989
Manley	2,579	1,697	414	809	3,645	2,457	172	ND	ND	ND	ND	1,829	1,315
Minto	472	140	40	18	ND	13	0	ND	ND	ND	ND	168	7
Nenana/Healy	4,545	3,981	3,544	2,640	4,937	1,801	19	17	12	2	46	3,929	370
Fairbanks (FNSB) ^f	5,190	3,496	884	1,137	822	658	10	0	0	0	24	2,306	134
Other District 6 ^g	12	31	0	18	0	3	1	0	7	0	0	12	2
District 6 Tanana R. total	12,798	9,345	4,882	4,622	9,404	4,932	202	17	19	2	70	8,210	1,034
Upper Yukon River total	79,931	72,879	73,747	75,639	61,336	54,110	2,519	88	813	2,350	1,101	72,706	11,976
Yukon Area total ^h	92,529	86,600	84,617	86,139	69,207	63,734	5,728	705	2,794	6,037	3,327	83,818	15,800
Personal use (District 6) ⁱ	278	80	283	626	505	408	37	0	0	0	0	354	89
Yukon Area total with personal use	92,807	86,680	84,900	86,765	69,712	64,142	5,765	705	2,794	6,037	3,327	84,173	15,889

Note: Subsistence harvest data were estimated from postseason survey, returned permits, and test fishery projects. NA indicates not applicable. ND indicates no data due to confidentiality.

^a Other District 3 included residents of District 3 combined due to confidentiality of low number of households fished.

^b Other District 4 included residents of District 4 combined due to confidentiality of low number of households fished.

^c Harvests by subsistence permit holders who resided in Fairbanks North Star Borough FNSB and fished in District 5 near the Yukon River bridge crossing.

^d Other permit holders who fished in District 5 but did not reside in the communities listed.

^e Included Teedriinjik formerly Chandalar River and Draanjik formerly Black River.

^f Harvests by subsistence permit holders who resided in FNSB and fished in the Tanana River.

^g Other permit holders who fished in District 6 but did not reside in the communities listed or harvest from communities with less than 3 participants.

^h Area total includes Coastal District.

ⁱ Harvest from the personal use fishing area on the Tanana River near Fairbanks. Not included in communities or totals above.

Appendix C4.—Coho salmon subsistence harvest totals by fishing district and community of residence, and personal use harvest total for District 6, Yukon Area, 2014–2024.

Community	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2014–2018	2019–2023
												Average	Average
Hooper Bay	118	95	121	218	119	342	150	41	94	174	58	134	160
Scammon Bay	86	79	234	206	746	462	189	9	197	114	125	270	194
Coastal District total	204	174	355	424	865	804	339	50	291	288	183	404	354
Nunam Iqua	153	229	58	20	184	21	19	4	31	12	0	129	17
Alakanuk	443	581	183	199	190	380	123	8	88	257	68	319	171
Emmonak	613	852	717	723	329	379	331	21	178	301	71	647	242
Kotlik	573	438	273	102	264	1,182	79	3	4	95	184	330	273
District 1 subtotal	1,782	2,100	1,231	1,044	967	1,962	552	36	301	665	323	1,425	703
Mountain Village	202	723	436	729	267	273	126	37	85	172	132	471	139
Pitkas Point	123	72	22	224	54	0	10	0	5	9	0	99	5
St. Mary's	408	391	128	213	37	10	37	0	0	18	61	235	13
Pilot Station	568	305	136	91	121	147	174	74	70	124	95	244	118
Marshall	468	1511	409	139	112	212	147	15	112	0	1	528	97
District 2 subtotal	1,769	3,002	1,131	1,396	591	642	494	126	272	323	289	1,578	371
Russian Mission	124	154	6	483	123	104	7	0	26	33	158	178	34
Holy Cross	103	246	134	0	23	63	6	ND	ND	0	ND	101	23
Shageluk	113	28	0	14	8	65	7	ND	4	ND	ND	33	25
Other District 3 ^a	NA	NA	NA	NA	NA	NA	NA	0	0	25	0	NA	8
District 3 subtotal	340	428	140	497	154	232	20	0	30	58	158	312	68
Lower Yukon River total	3,891	5,530	2,502	2,937	1,712	2,836	1,066	162	603	1,046	770	3,314	1,143
Anvik	197	46	184	11	15	55	23	ND	24	0	4	91	26
Grayling	403	212	35	0	0	75	52	ND	ND	0	ND	130	42
Kaltag	514	18	53	3	34	1	0	ND	ND	0	3	124	0
Nulato	454	48	0	85	220	27	0	ND	ND	ND	ND	161	14
Koyukuk	50	416	1	6	22	38	0	ND	ND	0	ND	99	13
Galena	718	654	201	136	216	120	13	0	ND	0	399	385	33
Ruby	335	185	226	22	26	32	0	ND	ND	ND	ND	159	16
Other District 4 ^b	NA	NA	NA	NA	NA	NA	NA	0	0	0	0	NA	0
District 4 subtotal	2,671	1,579	700	263	533	348	88	0	24	0	406	1,149	92
Huslia/Hughes	282	310	93	171	1020	80	45	0	84	5	0	375	43
Allakaket/Alatna/Bettles	109	52	33	92	27	69	5	0	0	0	0	63	15
Koyukuk River subtotal	391	362	126	263	1,047	149	50	0	84	5	0	438	58
District 4 total (incl. Koyukuk R.)	3,062	1,941	826	526	1,580	497	138	0	108	5	406	1,587	150

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Community	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2014–2018	2019–2023
												Average	Average
Tanana	1,788	2,434	639	874	1,355	82	120	8	0	25	38	1,418	47
Rampart/Stevens Village	0	2	52	0	11	7	12	21	12	0	0	13	10
Fairbanks (FNSB) ^c	0	0	101	112	72	506	32	2	15	0	5	57	111
Beaver	2	0	0	0	0	0	0	0	0	0	ND	0	0
Fort Yukon/Birch Creek	201	2	1	7	0	4	0	0	0	0	0	42	1
Circle/Central	0	0	38	0	0	0	0	0	0	0	0	8	0
Eagle	1	0	0	0	0	0	0	0	0	0	0	0	0
Other District 5 ^d	0	0	0	1	11	1	16	0	0	0	0	2	3
District 5 subtotal	1,992	2,438	831	994	1,449	600	180	31	27	25	43	1,541	173
Venetie/Chalkyitsik	38	24	30	18	0	12	16	0	0	27	0	22	11
Teedriinjik/Draanjik R. subtotal	38	24	30	18	0	12	16	0	0	27	0	22	11
District 5 total ^e	2,030	2,462	861	1,012	1,449	612	196	31	27	52	43	1,563	184
Manley	1,177	1,263	323	750	918	381	330	0	ND	ND	ND	886	237
Minto	37	270	0	0	ND	0	0	0	ND	ND	ND	77	0
Nenana/Healy	3,002	3,359	2,970	1,392	1,622	475	180	49	47	0	5	2,469	150
Fairbanks (FNSB) ^f	3,689	3,108	978	362	121	213	81	0	0	3	13	1,652	59
Other District 6 ^g	6	0	0	11	0	0	0	4	12	5	6	3	4
District 6 Tanana R. total	7,911	8,000	4,271	2,515	2,661	1,069	591	53	59	8	24	5,072	356
Upper Yukon River total	13,003	12,403	5,958	4,053	5,690	2,178	925	84	194	65	473	8,221	689
Yukon Area total ^h	17,098	18,107	8,815	7,414	8,267	5,818	2,330	296	1,088	1,399	1,426	11,940	2,186
Personal use (District 6) ⁱ	174	145	266	200	131	68	79	0	0	0	0	183	29
Yukon Area total with personal use	17,272	18,252	9,081	7,614	8,398	5,886	2,409	296	1,088	1,399	1,426	12,123	2,216

Note: Subsistence harvest data were estimated from postseason survey, returned permits, and test fishery projects. NA indicates not applicable. ND indicates no data due to confidentiality.

^a Other District 3 included residents of District 3 combined due to confidentiality of low number of households fished.

^b Other District 4 included residents of District 4 combined due to confidentiality of low number of households fished.

^c Harvests by subsistence permit holders who resided in Fairbanks North Star Borough FNSB and fished in District 5 near the Yukon River bridge crossing.

^d Other permit holders who fished in District 5 but did not reside in the communities listed.

^e Included Teedriinjik formerly Chandalar River and Draanjik formerly Black River.

^f Harvests by subsistence permit holders who resided in FNSB and fished in the Tanana River.

^g Other permit holders who fished in District 6 but did not reside in the communities listed or harvests from communities with less than 3 participants.

^h Area total includes Coastal District.

ⁱ Harvest from the personal use fishing area on the Tanana River near Fairbanks. Not included in communities or totals above.

Appendix C5.–Estimated pink salmon subsistence harvest by residents of surveyed communities, with community and district totals, Yukon Area, 2011–2024.

Community	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Even years Average	Odd years Average	All years Average
Hooper Bay	712	451	4,007	315	635	2,393	1,758	1,079	1,596	738	967	1,742	995	1,368
Scammon Bay	1,923	1,414	2,490	988	2,427	1,322	2,259	724	1,297	748	759	2,079	1,039	1,559
Coastal District total	2,635	1,865	6,497	1,303	3,062	3,715	4,017	1,803	2,893	1,486	1,726	3,821	2,034	2,928
Nunam Iqua	670	352	352	484	377	269	592	260	612	164	23	521	306	413
Alakanuk	970	15	713	99	7	190	143	155	392	387	886	445	169	307
Emmonak	588	7	228	0	31	23	125	141	823	171	558	359	68	214
Kotlik	1,064	14	502	159	29	398	29	0	671	14	357	459	117	288
District 1 subtotal	3,292	388	1,795	742	444	880	889	556	2,498	736	1,824	1,784	660	1,222
Mountain Village	233	57	93	152	92	270	292	11	684	244	330	279	147	213
Pitkas Point	45	288	48	0	122	0	11	205	67	0	0	59	99	79
St. Mary's	614	18	104	171	35	80	136	75	676	19	233	313	73	193
Pilot Station	27	0	8	5	0	1	13	0	0	1	27	10	1	6
Marshall	1	0	5	44	53	1	2	0	20	0	0	16	9	13
District 2 subtotal	920	363	258	372	302	352	454	291	1,447	264	590	676	328	502
Russian Mission	8	0	0	0	0	0	0	0	2,088	0	2	419	0	210
Holy Cross	0	0	2	1	0	0	0	ND	ND	0	ND	1	0	0
Shageluk	3	0	9	1	0	2	25	ND	0	ND	ND	7	1	5
Other District 3 ^a	NA	NA	NA	NA	NA	NA	NA	0	0	0	0	NA	0	0
District 3 subtotal	11	0	11	2	0	2	25	0	2,088	0	2	427	1	214
Lower Yukon River total	4,223	751	2,064	1,116	746	1,234	1,368	847	6,033	1,000	2,416	2,887	990	1,938
Anvik	0	0	0	0	0	0	5	ND	0	0	24	1	0	1
Grayling	39	0	33	0	16	0	0	ND	ND	0	ND	22	0	11
Kaltag	0	0	73	0	0	0	0	ND	ND	0	0	18	0	9
Nulato	8	0	0	0	0	0	0	ND	ND	ND	ND	2	0	1
Koyukuk	0	0	0	0	0	0	0	ND	ND	0	ND	0	0	0
Galena	6	16	11	8	0	0	0	0	ND	0	0	4	5	5
Ruby	13	0	0	0	0	0	0	ND	ND	ND	ND	3	0	2
Other District 4 ^b	NA	NA	NA	NA	NA	NA	NA	0	0	0	0	NA	0	0
District 4 subtotal	66	16	117	8	16	0	5	0	0	0	24	41	5	23
Huslia/Hughes	0	0	0	5	20	82	0	0	0	0	0	4	17	11
Allakaket/Alatna/Bettles	0	0	0	0	5	0	0	0	0	0	0	1	0	1
Koyukuk River subtotal	0	0	0	5	25	82	0	0	0	0	0	5	17	11
District 4 total (incl. Koyukuk R.)	66	16	117	13	41	82	5	0	0	0	24	46	22	34

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Community	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Even years	Odd years	All years
												Average	Average	Average
Tanana	8	13	34	0	0	0	0	0	0	0	0	8	3	6
Rampart/Stevens Village	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Beaver	0	0	0	0	0	0	0	0	0	0	ND	0	0	0
Fort Yukon/Birch Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Venetie/Chalkyitsik	0	0	0	0	0	0	0	0	0	0	0	0	0	0
District 5 total	8	13	34	0	0	0	0	0	0	0	0	8	3	6
Survey totals	6,932	2,645	8,712	2,432	3,849	5,031	5,390	2,650	8,926	2,486	4,166	6,762	3,049	4,905
CI (95%)	1,356	612	2,064	748	1,299	1,210	1,433	713	3,291	1,174	1,473	1,889	891	1,390
Test fishery ^c	120	0	9	8	65	2	15	1	33	1	37	48	2	25

Note: CI 95% is the annual survey total 95% confidence interval. Subsistence harvest data were estimated from postseason survey, returned permits and test fishery projects. NA indicates not applicable. ND indicates no data due to confidentiality. Included test fishery catch. Confidence intervals were calculated from subsistence estimates and did not include donations of test fishery to communities. Pink salmon harvested and distributed from test fishery projects were not always recorded.

^a Other District 3 included residents of District 3 combined due to confidentiality of low number of households fished.

^b Other District 4 included residents of District 4 combined due to confidentiality of low number of households fished.

^c Number from test fishery catch added to community harvest estimates.

Appendix C6.–Households with dogs, number of dogs, and salmon fed to dogs, as estimated in surveyed communities, or reported in permit areas, Yukon Area, 2014–2024.

Year	Number of households with dogs	Number of dogs	Salmon fed to dogs					Total
			Summer chum	Fall chum	Coho	Pink	Unknown species ^a	
2014	1,759	5,388	5,105	28,218	1,946	ND	31,419	66,688
2015	1,795	5,175	7,848	24,184	3,654	ND	29,259	64,945
2016	2,058	5,371	9,241	36,286	1,027	435	19,021	66,010
2017	1,965	5,615	18,071	32,162	1,241	273	24,039	75,786
2018	1,918	5,318	12,095	24,500	2,217	86	21,318	60,216
2019	1,870	4,906	3,724	23,180	51	535	23,843	51,333
2020	1,557	4,543	4,223	1,223	353	68	1,214	7,081
2021	1,115	3,102	77	612	0	1,004	10	1,703
2022	2,258	5,555	117	628	107	3,823	163	4,838
2023	1,814	4,297	1,222	6,247	79	19	87	7,654
2024	1,855	4,546	925	519	32	226	232	1,934
5-year average								
2014–2018	1,899	5,373	10,472	29,070	2,017	265	25,011	66,729
5-year average								
2019–2023	1,723	4,481	1,873	6,378	118	1,090	5,063	14,522

Note: The estimated number of salmon included those retained from subsistence and commercial related harvests. Duplicate permit household information removed. Typically Districts 4–6 harvest ~98% of total salmon fed to dogs. ND indicates no data.

^a Permit areas only reported combined salmon species summer and fall chum and coho salmon fed to dogs.

Appendix C7.—Subsistence harvests taken under authority of a permit in the Rampart Area and Yukon River Bridge Area of District 5, Yukon Area, 2014–2024.

Yukon River Rampart Area subsistence salmon fishery ^a													
Year	Number of permits issued	Number of permits returned	Number reporting harvest	Chinook	Summer chum	Fall chum	Coho	Whitefish	Sheefish	Burbot	Northern pike	Longnose sucker	Arctic grayling
2014	18	18	9	11	240	797	0	398	60	0	6	0	0
2015	17	17	8	73	104	629	2	66	36	3	4	0	0
2016	24	24	18	557	252	659	2	213	1	0	0	0	0
2017	23	23	19	1,015	155	650	0	85	1	0	1	0	0
2018	21	21	19	463	23	465	21	54	0	0	1	0	0
2019	36	34	23	1,300	42	196	7	66	1	10	0	0	50
2020	29	29	22	530	21	40	29	448	52	1	0	0	0
2021	26	26	9	27	1	4	23	121	20	0	5	0	0
2022	22	21	3	7	0	10	12	40	4	0	0	1	0
2023	21	20	11	39	35	4	0	91	1	4	11	0	0
2024	13	13	5	33	22	0	0	82	6	1	5	0	0
2014–2018 Average	21	21	15	424	155	640	5	163	20	1	2	0	0
2019–2023 Average	27	26	14	381	20	51	14	153	16	3	3	0	10
Yukon River Bridge Area subsistence fishery ^b													
2014	42	42	21	3	221	798	0	142	16	2	27	0	0
2015	39	39	16	158	466	2,212	0	281	85	5	51	0	0
2016	62	62	40	996	518	1,449	101	329	15	3	42	1	0
2017	63	63	46	2,392	1,605	1,803	113	565	83	15	50	0	0
2018	82	81	59	1,627	600	2,088	73	646	53	32	38	3	0
2019	90	87	46	2,440	182	3,961	507	927	35	12	66	6	1
2020	98	95	46	1,473	64	568	31	2,266	193	17	192	4	1
2021	62	61	17	273	10	1	0	624	29	2	10	13	0
2022	53	50	16	327	15	132	15	437	21	14	198	2	0
2023	36	36	19	326	55	1	0	391	30	7	63	6	0
2024	39	38	13	253	39	0	5	344	32	3	42	0	0
2014–2018 Average	58	57	36	1,035	682	1,670	57	393	50	11	42	1	0
2019–2023 Average	68	66	29	968	65	933	111	929	62	10	106	6	0

Note: Data may have been updated from previous annual reports.

^a That portion of the Yukon River drainage from Garnett Island to Hess Creek.

^b That portion of the Yukon River drainage from Hess Creek to Dall River.

Appendix C8.—Subsistence fish harvests taken under authority of a permit in the Circle–Eagle Area of District 5, Yukon Area, 2014–2024.

Subsistence salmon fishery below mainstem Yukon sonar project near Eagle ^a													
Year	Number of permits issued	Number of permits returned	Number reporting harvest	Chinook	Summer chum	Fall chum	Coho	Whitefish	Sheefish	Burbot	Northern pike	Longnose sucker	Arctic grayling
2014	24	22	11	8	0	5,185	0	87	16	1	2	0	2
2015	30	29	17	220	0	6,338	0	69	11	4	19	0	31
2016	36	36	25	520	0	4,108	38	71	5	3	7	0	3
2017	31	31	26	1,117	0	7,832	0	126	19	4	1	4	17
2018 ^b	0	61	23	967	0	7,824	0	115	15	5	0	0	17
2019 ^b	62	61	20	875	0	8,140	0	285	13	4	5	4	22
2020 ^b	59	57	19	385	0	10	0	2	8	2	0	0	0
2021 ^b	45	43	4	47	0	0	0	11	0	0	0	1	0
2022 ^b	34	33	3	1	0	0	0	1	2	0	0	0	0
2023 ^b	30	29	1	0	0	0	0	2	0	0	1	0	0
2024 ^b	32	31	1	17	0	0	0	0	0	0	0	0	0
2014–2018 Average	24	36	20	566	0	6,257	8	94	13	3	6	1	14
2019–2023 Average	46	45	9	262	0	1,630	0	60	5	1	1	1	4
Subsistence salmon fishery above mainstem Yukon sonar project near Eagle ^c													
2014	15	15	11	55	0	13,575	1	102	109	2	2	2	47
2015	19	19	13	341	0	12,540	0	67	11	2	2	7	33
2016	23	23	17	762	0	13,015	0	53	32	3	3	8	33
2017	38	38	28	1,498	0	14,110	0	91	11	0	1	2	25
2018	–	–	23	602	0	11,715	0	86	22	1	3	2	20
2019	–	–	21	742	0	10,631	0	125	19	0	5	2	8
2020	–	–	7	220	0	0	0	1	0	0	0	0	28
2021	–	–	5	38	0	0	0	43	6	14	0	12	46
2022	–	–	4	2	0	41	0	36	29	1	7	0	6
2023	–	–	1	5	0	89	0	35	0	0	0	0	0
2024	–	–	5	32	0	30	0	324	80	16	7	1	0
2014–2018 Average	–	–	18	652	0	12,991	0	80	37	2	2	4	32
2019–2023 Average	–	–	8	201	0	2,152	0	48	11	3	2	3	18

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Note: Lower table is used to show harvest above mainstem Yukon sonar project operated near Eagle for determining border passage. The number of permits includes multiple permits issued to households that fished both above and below the sonar site. An endash indicates the values are not comparable to prior years data, due to changes in permits reporting by location.

- ^a That portion of the Yukon River drainage from Twenty-Two Mile Slough, located downstream of the community of Circle, to the mainstem Yukon sonar project downstream of Eagle.
- ^b The number of permits issued and returned included households that fished above and below the sonar site.
- ^c Harvest occurred between the Yukon River mainstem sonar site located downstream from the community of Eagle and the U.S./Canada border.

Appendix C9.—Harvest from permits in Subdistrict 6-A of the Tanana River and the Kantishna River, Yukon Area, 2014–2024.

Subdistrict 6—A subsistence salmon fishery ^a													
Year	Number of permits issued	Number of permits returned	Number reporting harvest	Chinook	Summer chum	Fall chum	Coho	Whitefish	Sheefish	Burbot	Northern pike	Longnose sucker	Arctic grayling
2014	22	22	16	104	179	3,450	1,420	100	3	1	1	0	0
2015	17	17	9	136	9	1,656	1,151	12	2	0	3	0	0
2016	17	16	10	264	36	593	486	24	0	0	1	0	0
2017	13	13	8	105	34	865	784	8	0	0	10	0	0
2018	24	23	12	210	78	3,872	1,076	135	1	4	2	0	0
2019	28	28	10	101	56	2,639	547	18	0	4	26	0	0
2020	28	27	8	52	22	172	330	37	0	0	25	0	0
2021	18	18	2	0	0	0	0	0	0	0	6	0	0
2022	12	12	1	0	0	0	0	3	0	0	15	0	0
2023	16	16	3	0	0	0	0	13	0	15	14	0	0
2024	14	13	0	0	0	0	0	0	0	0	0	0	0
2014–2018 Average	19	18	11	164	67	2,087	983	56	1	1	3	0	0
2019–2023 Average	20	20	5	31	16	562	175	14	0	4	17	0	0
Kantishna River subsistence fishery ^b													
2014	5	5	3	0	0	70	129	10	0	0	6	0	0
2015	2	2	1	0	0	127	11	0	0	1	2	3	1
2016	3	3	1	0	0	115	67	20	0	2	5	0	1
2017	2	2	1	0	0	20	3	0	0	0	0	0	0
2018	8	8	1	0	0	0	0	0	0	0	0	0	0
2019	24	24	0	0	0	0	0	0	0	0	0	0	0
2020	26	22	1	0	0	1	0	970	2	31	110	36	0
2021	11	10	1	0	0	0	0	852	1	36	120	9	0
2022	11	8	1	1	0	1	0	1,284	0	30	134	37	0
2023	5	4	1	0	0	0	0	1,044	0	36	102	32	0
2024	8	7	0	0	0	0	0	0	0	0	0	0	0
2014–2018 Average	4	4	1	0	0	66	42	6	0	1	3	1	0
2019–2023 Average	15	14	1	0	0	0	0	830	1	27	93	23	0

Note: Data may have been updated from previous annual reports.

^a Portion of the Tanana River drainage from Yukon River confluence to the upstream edge of Kantishna River confluence.

^b Kantishna River drainage upstream of Tanana River confluence. A waiver is on file to report the harvest of less than 3 participants in the fishery.

Appendix C10.—Harvest from permits in Subdistrict 6-B and the Tolovana River drainage, Yukon Area, 2014–2024.

Subdistrict 6–B subsistence salmon fishery ^a													
Year	Number of permits issued	Number of permits returned	Number reporting harvest	Chinook	Summer chum	Fall chum	Coho	Whitefish	Sheefish	Burbot	Northern pike	Longnose sucker	Arctic grayling
2014	81	78	38	168	533	8,381	5,977	1,241	8	15	64	28	16
2015	71	71	30	220	225	7,457	6,652	880	17	6	28	13	0
2016	66	62	25	372	60	2,992	2,495	586	16	3	18	8	0
2017	69	69	35	552	700	3,524	1,727	353	8	7	47	7	0
2018	83	82	31	283	228	5,361	1,585	433	5	2	0	0	0
2019	76	72	33	519	329	2,059	522	376	47	1	11	5	0
2020	67	65	25	372	88	29	261	295	1	0	92	40	0
2021	52	52	8	1	0	17	53	49	8	1	8	1	0
2022	37	35	6	0	0	18	59	97	2	1	12	34	1
2023	56	55	8	0	0	2	3	25	0	0	7	13	0
2024	36	36	11	3	193	52	13	179	3	1	26	76	0
2014–2018 Average	74	72	32	319	349	5,543	3,687	699	11	7	31	11	3
2019–2023 Average	58	56	16	178	83	425	180	168	12	1	26	19	0
Tolovana River drainage subsistence fishery ^b													
2014	106	105	57	0	0	1	0	3	0	0	478	1	0
2015	120	119	66	0	0	0	0	48	2	0	765	0	0
2016	201	196	129	0	0	0	0	10	0	1	1,020	0	0
2017	93	93	41	0	0	0	0	133	5	0	137	0	0
2018	175	175	103	0	0	0	0	14	3	0	1,040	0	0
2019	245	243	155	4	0	2	0	1,088	48	4	1,633	0	0
2020	329	323	191	0	1	0	0	776	53	2	2,005	0	0
2021	425	418	266	0	0	0	0	523	9	7	3,092	4	0
2022	349	344	209	1	0	0	0	113	9	3	3,299	0	0
2023	346	341	187	0	0	0	0	177	16	0	1,847	0	0
2024	309	306	189	0	0	18	0	302	38	1	2,398	0	0
2014–2018 Average	139	138	79	0	0	0	0	42	2	0	688	0	0
2019–2023 Average	339	334	202	1	0	0	0	535	27	3	2,375	1	0

Note: Data may have been updated from previous annual reports.

^a Portion of the Tanana River drainage from the upstream edge of the mouth of the Kantishna River upstream to the mouth of the Wood River, including the Wood River drainage.

^b Includes the Tolovana River drainage outside of the Fairbanks Nonsubsistence Area.

Appendix C11.—Harvest from permits in the upper Tanana River drainage and Koyukuk River, Yukon Area, Yukon Area, 2014–2024.

Upper Tanana River drainage subsistence fishery ^a													
Year	Number of permits issued	Number of permits returned	Number reporting harvest	Chinook	Summer chum	Fall chum	Coho	Whitefish	Sheefish	Burbot	Northern pike	Longnose sucker	Arctic grayling
2014	15	15	10	0	0	0	0	1,510	0	3	62	62	0
2015	38	38	14	0	0	33	1	2,064	1	2	16	12	33
2016	24	24	16	0	0	1	0	1,980	0	28	87	15	0
2017	22	22	7	0	0	10	1	899	0	5	30	1	0
2018	23	23	11	0	0	0	0	1,014	0	25	72	31	19
2019	31	29	11	0	0	4	0	621	0	2	199	8	23
2020	44	41	15	1	4	0	0	1,159	0	76	294	88	5
2021	32	30	9	0	0	0	0	858	0	30	318	5	9
2022	43	42	10	0	0	0	0	1,314	0	41	252	1	16
2023	48	45	13	0	0	0	5	1,034	0	30	290	29	7
2024	37	37	14	0	0	0	11	872	0	32	86	20	5
2014–2018 Average	24	24	12	0	0	9	0	1,493	0	13	53	24	10
2019–2023 Average	40	37	12	0	1	1	1	997	0	36	271	26	12
Upper south and middle forks of the Koyukuk River subsistence fishery permit area ^b													
2014	1	1	1	0	0	0	0	9	0	3	0	8	18
2015	1	1	1	0	0	0	0	4	0	0	0	0	32
2016	1	1	1	0	0	0	0	5	0	0	0	1	19
2017	1	1	1	0	0	0	0	3	0	0	0	0	7
2018	6	5	1	0	0	0	0	2	0	0	0	0	5
2019	19	18	1	0	0	0	0	0	0	0	0	0	0
2020	18	17	1	0	0	0	0	0	0	0	0	0	5
2021	12	11	1	0	4	0	0	0	0	0	0	0	0
2022	8	7	1	0	0	0	0	1	0	5	0	12	14
2023	5	4	1	0	0	0	0	1	0	3	0	59	2
2024	6	5	1	0	0	0	0	0	0	7	0	58	1
2014–2018 Average	2	2	1	0	0	0	0	5	0	1	0	2	16
2019–2023 Average	12	11	1	0	1	0	0	0	0	2	0	14	4

Note: Data may have been updated from previous annual reports.

^a That portion of the Tanana River drainage from the mouth of the Volkmar River, including the Volkmar River drainage, and the mouth of the Johnson River, including the Johnson River drainage, upstream to the Tanana River drainage headwaters.

^b That portion of the South Fork of the Koyukuk River drainage upstream from the mouth of the Jim River and the Middle Fork of the Koyukuk River drainage upstream from the mouth of the North Fork River. A waiver is on file to report the harvest of less than 3 participants in the fishery.

Appendix C12.—Harvest from personal use permit areas in the Tanana River drainage, Yukon Area, 2014–2024.

Subdistrict 6—C personal use salmon fishery ^a													
Year	Number of permits issued	Number of permits returned	Number reporting harvest	Chinook	Summer chum	Fall chum	Coho	Whitefish	Sheefish	Burbot	Northern pike	Longnose sucker	Arctic grayling
2014	50	50	23	1	235	278	174	39	3	0	0	0	0
2015	42	42	15	5	220	80	145	26	1	0	1	1	0
2016	57	57	29	57	176	273	265	12	1	0	3	0	0
2017	82	82	40	125	438	626	200	6	1	1	4	1	0
2018	99	99	57	206	515	505	131	7	0	0	0	0	1
2019	92	90	49	244	294	408	68	88	10	0	73	66	0
2020	82	81	30	112	67	37	79	4	5	0	0	0	0
2021	45	45	0	0	0	0	0	0	0	0	0	0	0
2022	24	24	1	0	0	0	0	0	0	0	0	0	0
2023	20	20	2	0	0	0	0	0	0	0	0	0	0
2024	20	20	2	0	18	0	0	0	0	0	0	0	0
2014–2018 Average	66	66	33	79	317	352	183	18	1	0	2	0	0
2019–2023 Average	53	52	16	71	72	89	29	18	3	0	15	13	0
Upper Tanana River personal use whitefish/sucker fishery ^b													
2014	21	21	10	0	0	0	0	106	0	0	0	270	0
2015	22	22	13	0	0	0	0	254	0	0	0	322	1
2016	21	21	10	0	0	10	1	259	0	0	4	181	6
2017	14	14	9	0	0	0	0	111	0	0	0	164	0
2018	16	16	9	0	0	0	0	93	0	0	0	113	0
2019	15	14	2	0	0	0	0	11	0	0	0	38	0
2020	28	28	5	0	0	0	0	71	0	0	0	21	0
2021	25	24	2	0	0	0	0	2	0	0	0	30	0
2022	12	12	3	0	0	0	0	38	0	0	0	44	0
2023	13	13	4	0	0	0	0	39	0	0	0	9	0
2024	15	15	6	0	0	0	0	7	0	0	0	58	0
2014–2018 Average	19	19	10	0	0	2	0	165	0	0	1	210	1
2019–2023 Average	19	18	3	0	0	0	0	32	0	0	0	28	0

Note: Data may have been updated from previous annual reports.

^a Portion of the Tanana River drainage from the upstream edge of the mouth of the Wood River, not including the Wood River drainage, to the upstream edge of the mouth of the Salcha River, including the Salcha River drainage.

^b Portion of the Tanana River drainage from the upstream edge of the mouth of the Wood River, not including the Wood River drainage, to the mouth of the Volkmar River on the north bank of the Tanana River and upstream to the Johnson River on the south bank of the Tanana River. This permit is issued for the harvest of whitefish species and longnose suckers but requires reporting incidental fish harvests and live release of nonpermitted species if gear allows.

Appendix C13.—Estimated and reported subsistence and personal use harvest of miscellaneous fish species, Yukon Area, 2014–2024.

Reporting groups	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2014–2018 Average	2019–2023 Average
Survey estimates ^a													
Northern pike	14,852	20,109	24,580	22,060	20,776	15,703	26,352	9,760	28,833	15,562	17,554	20,475	19,242
Sheefish	12,583	12,828	14,451	12,768	11,728	14,838	9,165	4,960	8,738	8,614	7,948	12,872	9,263
Whitefish ^b	84,889	79,740	69,578	64,202	57,780	66,074	47,122	17,293	29,284	23,936	28,036	71,238	36,742
Survey reported ^c													
Alaska blackfish	92,080	97,586	90,207	109,888	61,896	88,009	30,383	16,669	23,165	16,152	16,351	90,331	34,876
Arctic grayling	1,772	1,832	1,518	1,572	1,833	744	228	283	439	249	595	1,705	389
Arctic lamprey ^d	19,888	42,237	17,609	19,357	1,027	4	0	0	12	5,452	14,568	20,024	1,094
Burbot	2,016	3,364	2,501	2,811	2,975	1,946	812	780	965	601	357	2,733	1,021
Herring ^e	17,164	24,591	15,959	16,508	28,907	12,267	8,032	5,289	5,718	5,342	15,710	20,626	7,330
Tomcod	10,020	4,697	5,795	6,741	5,243	10,006	1,872	707	2,658	441	1,819	6,499	3,137
Permit reported													
Arctic grayling	83	131	62	49	62	104	39	55	37	9	6	77	49
Burbot	27	23	43	32	69	37	129	90	95	95	61	39	89
Longnose suckers	371	358	214	179	149	129	189	75	131	148	213	254	134
Northern pike	648	891	1,190	281	1,156	2,018	2,718	3,559	3,917	2,335	2,523	833	2,909
Sheefish	215	166	70	128	99	173	314	73	67	47	159	136	135
Whitefish ^b	3,747	3,771	3,562	2,380	2,547	3,605	6,029	3,083	3,364	2,852	2,110	3,201	3,787
Total harvest of species from survey and permits													
Arctic grayling	1,855	1,963	1,580	1,621	1,895	848	267	338	476	258	601	1,783	437
Burbot	2,043	3,387	2,544	2,843	3,044	1,983	941	870	1,060	696	418	2,772	1,110
Northern pike	15,500	21,000	25,770	22,341	21,932	17,721	29,070	13,319	32,750	17,897	20,077	21,309	22,151
Sheefish	12,798	12,994	14,521	12,896	11,827	15,011	9,479	5,033	8,805	8,661	8,107	13,007	9,398
Whitefish ^b	88,636	83,511	73,140	66,582	60,327	69,679	53,151	20,376	32,648	26,788	30,146	74,439	40,528
Total	120,832	122,855	117,555	106,283	99,025	105,242	92,908	39,936	75,739	54,300	59,349	113,310	73,625

Note: Due to the nature of nonsalmon harvest and the timing of the survey, this table included fish harvest 12 months prior to the survey e.g., 2024 is harvest from winter 2023 to fall 2024.

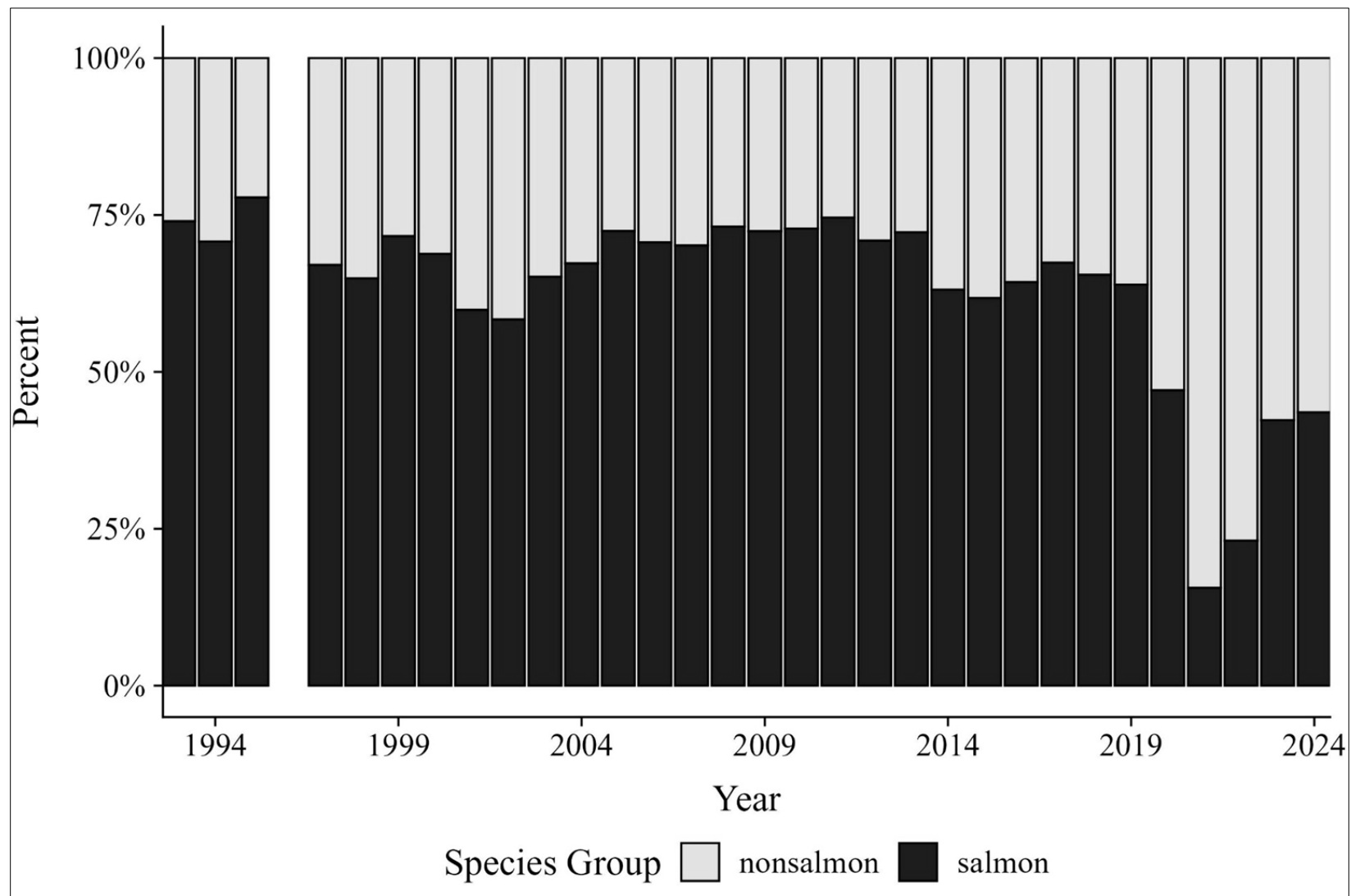
^a Subsistence harvests of northern pike, sheefish, and whitefish from surveyed communities were estimated with methods developed for salmon harvest estimates.

^b Included various Coregonus species and round whitefish *Prosopium cylindraceum*.

^c Total number of each species reported by households in surveyed communities. Harvest totals for these species are not expanded to estimate for all households.

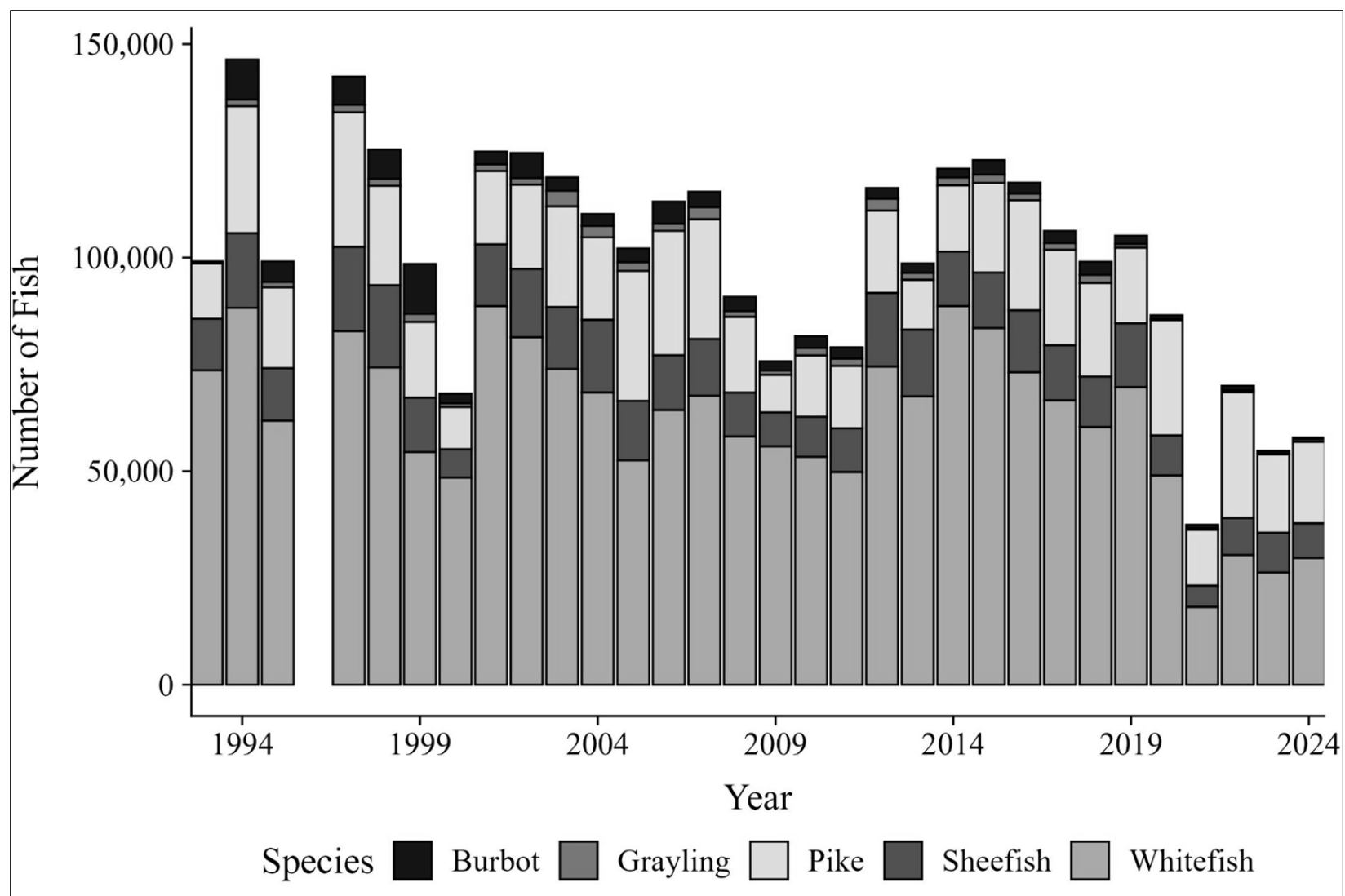
^d Harvest of Arctic lamprey reported in each year occurred from October–December of the previous year. Harvests from 2014–2015 included Arctic lamprey reported on postcards. Household surveys were compared to postcards to avoid double counting.

^e Reports of smelt were included in herring harvest.



Appendix C14.—Historical comparison of percent salmon and nonsalmon harvest, Yukon Area, 1993–2024.

Note: Nonsalmon included: sheefish, whitefish, Norther pike, burbot, and Arctic grayling.



Appendix C15.—Historical comparison of nonsalmon harvest by species, Yukon Area, 1993–2024.