Fishery Data Series No. 17-19

Fall Season Cooperative Salmon Drift Gillnet Test Fishing in the Lower Yukon River, 2015

by

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and

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June 2017

Alaska Department of Fish and Game **Divisions of Sport Fish and Commercial Fisheries**

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Weights and measures (metric)

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

Weights and measures (English)

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

Time and temperature

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

Physics and chemistry

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

General

Alaska Administrative Code	AAC
all commonly accepted abbreviations	e.g., Mr., Mrs., AM, PM, etc.
all commonly accepted professional titles	e.g., Dr., Ph.D., R.N., etc.
at	@
compass directions:	
east	E
north	N
south	S
west	W
copyright	©
corporate suffixes:	
Company	Co.
Corporation	Corp.
Incorporated	Inc.
Limited	Ltd.
District of Columbia	D.C.
et alii (and others)	et al.
et cetera (and so forth)	etc.
exempli gratia (for example)	e.g.
Federal Information Code	FIC
id est (that is)	i.e.
latitude or longitude	lat or long
monetary symbols (U.S.)	$, ¢
months (Tables and Figures): first three letters	Jan,...,Dec
registered trademark	®
trademark	™
United States (adjective)	U.S.
United States of America (noun)	USA
U.S.C.	United States Code
U.S. state	use two-letter abbreviations (e.g., AK, WA)

Mathematics, statistics

all standard mathematical signs, symbols and abbreviations	
alternate hypothesis	H_A
base of natural logarithm	*e*
catch per unit effort	CPUE
coefficient of variation	CV
common test statistics	(F, t, χ^2, etc.)
confidence interval	CI
correlation coefficient (multiple)	R
correlation coefficient (simple)	r
covariance	cov
degree (angular)	°
degrees of freedom	df
expected value	*E*
greater than	>
greater than or equal to	≥
harvest per unit effort	HPUE
less than	<
less than or equal to	≤
logarithm (natural)	ln
logarithm (base 10)	log
logarithm (specify base)	$log_{2,}$ etc.
minute (angular)	'
not significant	NS
null hypothesis	H_O
percent	%
probability	P
probability of a type I error (rejection of the null hypothesis when true)	α
probability of a type II error (acceptance of the null hypothesis when false)	β
second (angular)	"
standard deviation	SD
standard error	SE
variance	
population	Var
sample	var

FISHERY DATA SERIES NO. 17-19

FALL SEASON COOPERATIVE SALMON DRIFT GILLNET TEST FISHING IN THE LOWER YUKON RIVER, 2015

by
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ABSTRACT

The fall season Lower Yukon drift gillnet test fishery project (LYTF), operated by the Alaska Department of Fish and Game in cooperation with Yukon Delta Fisheries Development Association, is designed to provide an index of run timing and relative abundance of fall chum salmon *Oncorhynchus keta* and coho salmon *O. kisutch* returning to the Yukon River drainage. Drift gillnets were operated from 16 July through 28 August 2015 in the lower Yukon River near the village of Emmonak, Alaska. Catch per unit effort (CPUE) and age, sex, and length data were collected from drift gillnet catches from the Big Eddy and Middle Mouth test fishery sites operated in the lower river. The test fishery recorded a cumulative CPUE of 1,262 for fall chum salmon; the midpoint of the run occurred on 11 August. Fall chum salmon were predominantly age-0.3 fish; this age class composed 57% (n = 300) of the unweighted age sample (n = 943). Coho salmon were predominately age-2.1 fish, composing 80% (n = 344) of the unweighted age sample (n = 429). The cumulative CPUE for coho salmon was 419 and the midpoint occurred on 18 August. Cumulative CPUE of fall chum salmon at the LYTF project suggests the relative abundance was average, whereas coho salmon was slightly above average when compared to historical data. In 2015, the fall season Lower Yukon drift gillnet test fishery project provided critical information that was used to make inseason management decisions regarding prosecution of commercial and subsistence fisheries for fall chum and coho salmon.

Key words chum *Oncorhynchus keta*, coho salmon *Oncorhynchus kisutch*, gillnet test fishery, assessment, catch per unit effort CPUE, Yukon River

INTRODUCTION

The Yukon River is the largest river in Alaska draining an area of approximately 330,000 square miles of both Canada and Alaska. The river flows northwesterly from its headwaters in British Columbia through Yukon Territory and Interior Alaska, before reaching the Bering Sea. Subsistence, commercial, personal use and sport fisheries harvest salmon within the drainage. Management of these fisheries is complex because of the number, diversity, and geographic range of fish stocks and user groups. Several abundance and run timing assessment projects operate throughout the drainage and provide information at critical junctions in the salmon migration (Figure 1). In the Yukon River, the fall season Lower Yukon fall drift gillnet test fishery (LYTF) provides the first indication of fall chum salmon *Oncorhynchus keta* and coho salmon *O. kisutch* pulses entering the North, Middle and South mouths of the river. This project provides an index of abundance, and run timing information, which is used for inseason management of commercial and subsistence fisheries for fall chum salmon and coho salmon.

In the lower portion of the Yukon River, the Alaska Department of Fish and Game (ADF&G), Division of Commercial Fisheries operates the drift gillnet test fishery. Since 2001, the fall season drift project has run seasonally from 16 July through 28 August (Padilla and Brandt 2014; Clark and Hayes 2002). Beginning in 2010, the Yukon Delta Fisheries Development Association (YDFDA) extended test fishery operations into September. The intent of the test fishery extension was to determine the extent of fall chum and coho salmon passage estimates, beyond the traditional project termination date, for the consideration of additional commercial fishing openings. In 2015, YDFDA operated the program from 29 August to 20 September. Drifts and data collection continued without a break in operation. The intent of the test fishery extension was to determine the extent of fall chum and coho salmon passage estimates beyond the traditional project termination date of 28 August, for the consideration of additional commercial openings. During the 2015 season, 3 additional commercial fishing openings resulted from the project extension. Data for the extended operation are included in this report for completeness (Appendix A). However, to provide for historical data comparisons, this report will primarily discuss data through 28 August.

Inseason run timing, relative abundance indices, and age composition data are collected by this project, which provides critical data for the management of the Yukon area fall chum and coho salmon stocks. In conjunction with data provided by other fall projects, in particular the daily passage estimates based on the mainstem Yukon River sonar near Pilot Station, the collected data are used inseason to assess salmon abundance, and monitor their passage through the lower Yukon River. Firstly, this project provides an indication of when fall chum and coho salmon transit the individual North, Middle, and South mouths of the Yukon River Delta. According to estimates from the lower portion of the Yukon River, fall chum salmon travel about 56 km (35 miles) per day and coho salmon about 48 km (30 miles) per day. Salmon pulses observed in LYTF catches at river kilometer (rkm) 39 (or river mile 24) provide estimates of timing expected to reach the mainstem Yukon River sonar at rkm 200 (or river mile 124) approximately 3 days later. Secondly, catch per unit of effort (CPUE) is the index used to determine relative abundance for fall chum and coho salmon. Typically, if LYTF and the sonar corroborate timing and magnitude of the salmon run, it is an indication that neither project was affected by operational problems such as debris, high water, and turbidity. Thirdly, age, sex, and size information for the fall chum salmon run is obtained from samples collected in LYTF. This information is used to monitor the composition of the annual run and is also used to estimate brood year age structure for spawner-recruit modeling and preseason run forecasting. The information provided by this project guides fishery management decisions for the immediate lower Yukon River fisheries, as well as prosecution of fisheries in the remainder of the Yukon River drainage.

OBJECTIVES

The project objectives for the 2015 fall season were to:

1) Estimate daily CPUE of fall chum and coho salmon entering the mouths of the Yukon River;
2) Estimate the age, sex, and length (ASL) composition of fall chum and coho salmon so the 90% confidence interval bounds are no wider than ± 5 % of the estimated mean;
3) Collect daily climatic and hydrological measurements in the study area;
4) Build partnerships and capacity through involvement of local technicians and communities in project operation and information sharing.

METHODS

STUDY AREA

The Lower Yukon fall drift gillnet test fishery program is operated near the South and Middle mouths of Yukon River (Figures 1 and 2). The closest community is Emmonak, which is located approximately 39 rkm (24 river miles) from the South mouth. The test fishery is approximately 159 rkm (99 river miles) downstream from the mainstem Yukon River sonar (lat 61° 57′1″N, long 162° 51′37″W). Test fishing at this location allows the assessment of fall chum and coho salmon entering Yukon River.

Two separate drift gillnet sites were used in each of Middle Mouth and South Mouth of the Yukon River, for a total of 4 drifting sites. The Big Eddy test fishery station, located in the main channel of Kwikluak Pass of the Yukon River, upstream and southeast of the village of Emmonak (Figure 2), was used to assess salmon transiting the South Mouth of the Yukon River.

Site 1 at Big Eddy (lat 62° 44′34.32″N, long 164° 25′31.26″W) was located approximately 0.8 km (0.5 mi) offshore towards the right bank and situated along the south side of a long sandbar (Figure 3). The starting point of Site 2 (lat 62° 44′47.52″N, long 164° 27′45.00″W) was located along the left bank, approximately 1.9 km (1.2 mi) downstream, and southwest from the starting point of Site 1. The Middle Mouth test fishery station, located upstream from Kawanak and Apoon Pass (Figure 2), was used to assess the passage of salmon transiting the Middle and North mouths of the Yukon River. Two drift gillnet sites were located in Kwikpak Pass, approximately 7–12 km (4.5–7.5 mi) upstream of the ADF&G Middle Mouth field camp (lat 62° 53′52.44″N, long 164° 5′49.00″W). The Site 1 drift gillnet starting point was along the left bank of the river (lat 62° 47′47.70″N, long 164° 04′10.02″W), and Site 2 was located along the right bank (lat 62° 50′14.70″N, long 164° 06′50.94″W), approximately 5.0 km (3.1 mi) downstream from the starting point of Site 1 (Figure 4).

DRIFT GILLNET TEST FISHING

In 2015, both test fishery stations operated from 16 July through 28 August and used ADF&G and YDFDA personnel. Beginning 29 August, personnel from YDFDA assumed full LYTF operations with ADF&G guidance and ran the Big Eddy and Middle Mouth sites through 20 September (Appendix A). Again, the data for the extended operation are included in this report for completeness, but will not be discussed further.

Fishing methods were similar at both the Big Eddy and Middle Mouth stations. Gillnets were constructed of Momoi brand MT-73[1] multifilament nylon strand style and diameter size, triple knot, shade 3 (color pale green), and hung "even" at a 2:1 ratio of web to cork line. Gillnet dimensions were 6.0 in (15.2 cm) mesh, 35 meshes in depth, and 50 fathoms (91.4 m) of mesh along the cork line with a cork marking at 25 fathoms (45.7 m).

Drifts were primarily conducted daily at 0800 hours and 1900 hours regardless of tidal stage at Sites 1 and 2 at each station. Typically Site 1 was fished before Site 2 at each fishing period and each station. To avoid test fishing during commercial periods or hazardous weather, drift schedules were adjusted or cancelled. Occasionally Site 2 fished first based on the prevailing winds providing some safety if afforded in the lee. One drift per site per period was attempted. Standard drift times began when the net was full out, about 1 minute after deployment. Under normal operation, gillnets were retrieved after 17 minutes, after which the net retrieval of 2 or 3 minutes began for a targeted total of approximately 20 minutes of fishing time. In times of high salmon abundance, drift time was reduced to avoid saturating the net with fish; in these circumstances gillnets were retrieved after about 30 fish had been captured for ASL sampling. Salmon catches and drift times were recorded in field notebooks for each site. Both sites' salmon catches were combined into a fish tote or within bins on the boat deck.

TEST FISHING INDEX

The actual salmon catch for each drift was converted to a drift CPUE and then averaged, producing an estimate that was comparable for South Mouth and Middle Mouth test fishing locations. This was accomplished by converting the number of fish caught in the variable net length and mean fishing time of each drift to the number of fish that would be caught by 100

[1] Product names used in this report are included for scientific completeness but do not constitute a product endorsement.

fathoms (180 m) of net fished for 60 minutes. This standardization of net length and fishing time has been used in many gillnet test fisheries conducted by ADF&G (Meacham 1978; Waltemeyer 1983). The LYTF daily CPUE was calculated by averaging the CPUE for the 2 test fishing locations.

Denote that:

i = date of test fishery;

p = drift of test fishery;

s = test fishery site at each location;

l = test fishery location;

$f_{i,p,l,s}$ = length of net deployed on day (i), period (p), at location (l), at site (s);

$t1_{i,p,l,s}$ = time net deployment begins;

$t2_{i,p,l,s}$ = time net fully deployed;

$t3_{i,p,l,s}$ = time net retrieval begins;

$t4_{i,p,l,s}$ = time net fully retrieved;

$C_{i,p,l,s}$ = number of fish by species caught by each drift;

$d_{i,l}$ = total number drifts on day (i) at location (l).

For each drift, fishing time ($T_{i,p,l,s}$) was calculated as:

$$T_{i,p,l,s} = \frac{1}{2}(t3_{i,p,l,s} + t4_{i,p,l,s} - t2_{i,p,l,s} - t1_{i,p,l,s}) \ , \tag{1}$$

and its standardized drift CPUE ($I_{i,p,l,s}$) per 100 fathom net length and 60 minutes of fishing effort was calculated as:

$$I_{i,p,l,s} = 100 \times 60 \cdot \frac{C_{i,p,l,s}}{f_{i,p,l,s} \cdot \overline{T}_{i,p,l,s}} \ . \tag{2}$$

Daily CPUE at each location ($I_{i,l}$) was calculated as:

$$I_{i,l} = \frac{\sum_{p,s} I_{i,p,l,s}}{d_{i,l}} . \tag{3}$$

Total LYTF daily CPUE (I_i) was calculated as:

$$I_i = \frac{\sum_{i,p,s} I_{i,p,l,s}}{\sum_{l} d_{i,l}} . \tag{4}$$

Mean daily CPUE data were summed to produce cumulative seasonal CPUE indices for the period of data collection (Molyneaux 1999). Cumulative proportions of seasonal total test fishery CPUE indices were also calculated and used to estimate the quarter points and midpoint of the

fall chum and coho salmon runs. Timing of fall chum and coho salmon runs are used for inter-annual comparisons.

AGE, SEX, AND LENGTH SAMPLING

ASL data were collected from retained fall chum and coho salmon. A maximum daily sampling target of 30 fall chum and 20 coho salmon were attempted daily at each of the Big Eddy and Middle Mouth stations. During fall chum salmon pulses, or periods of high abundance, up to 15 additional fall chum salmon were collected and sampled for ASL, for a daily maximum of 45 samples. All salmon lengths were measured to the nearest millimeter from mideye to tail fork (METF) using Haglöf brand calipers. The sex of each salmon was verified by visual examination of the gonads through a small ventral incision. Age was determined by examining scales (Mosher 1968). Scales were collected from the left side of the fish approximately 2 rows above the lateral line in an area crossed by a diagonal from the posterior insertion of the dorsal fin to the anterior insertion of the anal fin (INPFC 1963). One scale per fish was collected from chum salmon. Because of the high rate of scale regeneration among coho salmon and the freshwater life stage, 3 scales were collected from each fish. Scales were mounted on gummed cards and impressions were made in cellulose acetate (Clutter and Whitesel 1956). European notation (Koo 1962) was used to record ages; numerals preceding the decimal refer to the number of freshwater annuli and numerals following the decimal refer to the number of marine annuli. Total age from time of egg deposition, or brood year, is the sum of these 2 numbers plus 1 to account for incubation time.

CLIMATIC AND HYDROLOGICAL OBSERVATIONS

Climate and hydrological data were collected daily at approximately 0800 and 1900 hours at both Big Eddy and Middle Mouth stations (Appendix B). Air and water temperatures were measured using a handheld thermometer and HOBO U22 water temperature data loggers suspended approximately 30 cm (12 in) below the surface from docks located 10 m (33 ft) offshore. The data loggers were preset to record temperature every hour of each day. Daily observations of wind speed and direction, cloud cover, and precipitation were also recorded. Water levels are affected by tides, and therefore water stages are not collected at this project. Depth measurements were made once per week at each drift gillnet site throughout the season to construct bottom profiles. Depth readings were taken with a console-mounted Garmin depth sounder device and recorded at the nearshore buoy, mid-net, and offshore buoy while setting the net. Additional depth readings were recorded halfway through the drift and while the net was being retrieved.

PARTNERSHIP AND CAPACITY BUILDING

In partnership with ADF&G, YDFDA has provided qualified technicians to help with test fishery operations since 2004. Six local technicians have been trained and incorporated into the test fishery. In 2015, the Middle Mouth test fishery crew consisted of 2 rotating YDFDA technicians and 1 ADF&G technician. The Big Eddy crew consisted of 4 rotating YDFDA technicians and 1 ADF&G technician.

Funding and crew were provided by YDFDA to extended test fishery operations through mid-September. Drift gillnets, sampling equipment and data recording material were provided by ADF&G. Information sharing is an important part of building a reciprocating capacity and partnership. Local YDFDA technicians shared their knowledge of river navigation and fishing

techniques. Local subsistence fishermen provided catch information which aided in verifying test fishing catches. The cooperative LYTF project contributed salmon catch, CPUE, and timing data to the local and general public along the entire Yukon River drainage. In addition, salmon retained in the test fishery were donated to local families for subsistence use (Appendix D3).

RESULTS

FALL CHUM SALMON

In 2015, a total of 1,344 fall chum salmon were caught from Big Eddy and Middle Mouth stations combined (Table 1), resulting in a cumulative average CPUE of approximately 1,262 through 28 August (Table 1) which was near the 2001–2014 historical median (Appendix C1). The midpoint of the fall chum salmon run at these locations combined occurred on 11 August (Table 1). Approximately 59% of the daily CPUE for fall chum salmon were above the 2001-2014 historical medians (Figure 5). The cumulative CPUE for fall chum salmon in 2015 was near the historical median of 1,230 (Figure 6; Appendix C1).

At Big Eddy (Sites 1 and 2 combined), 982 fall chum salmon were captured resulting in a cumulative CPUE of approximately 1,698 (Table 1). The midpoint of the fall chum salmon run at Big Eddy was 11 August. Morning drifts at Big Eddy produced 52% and 46% of the fall chum salmon at Sites 1 and 2 respectively (Appendix D1).

At Middle Mouth (Sites 1 and 2 combined), 362 fall chum salmon were captured (Table 1) resulting in a cumulative CPUE of approximately 604 (Table 1). The midpoint of the fall chum salmon run at Middle Mouth was 10 August. Morning drifts at Middle Mouth produced 55% and 42% of the fall chum salmon at Sites 1 and 2 respectively (Appendix D2).

A total of 943 fall chum salmon were sampled from both stations combined for ASL determination through 13 September (Table 2). Females made up an unweighted 62.8% (n = 592) of the fish sampled at both stations. Age-0.3 was the dominant age class accounting for 57.5% of the fish aged, whereas age-0.2, -0.4, and -0.5 fish represented 7.8%, 31.8%, and 2.9% respectively of the unweighted age sample. Mean lengths for females were 558 mm for age-0.2 (n = 33), 578 mm for age-0.3 (n = 356), 589 mm for age-0.4 (n = 185), and 590 mm for age-0.5 (n = 18). Mean lengths for males were 559 mm for age-0.2 (n = 41), 583 mm for age-0.3 (n = 186), 600 mm for age-0.4 (n = 115), and 596 mm for age-0.5 (n = 9).

COHO SALMON

Through 28 August, a total of 435 coho salmon were caught at the combined Big Eddy and Middle Mouth stations resulting in a cumulative average CPUE of approximately 419 (Table 3). The midpoint of the coho salmon run occurred on 18 August (Table 3), which was near the 2001–2014 historical median (Appendix C4), and 48% of the daily CPUE was above historical medians (Figure 7). The cumulative CPUE for coho salmon in 2015 was above the historical median of 342 (Figure 8; Appendix C4).

A total of 317 coho salmon were captured at Big Eddy, (Sites 1 and 2 combined), with a corresponding cumulative CPUE of 566 (Table 3). The midpoint of the coho salmon run at Big Eddy was 18 August (Table 3). Morning drifts at Big Eddy produced 43% and 47% of the coho salmon captured at Sites 1 and 2, respectively (Appendix D1).

A total of 118 coho salmon were captured at Middle Mouth (Sites 1 and 2 combined), resulting in a cumulative CPUE of 202 (Table 3). The midpoint of the run at Middle Mouth was 15 August (Table 3). Morning drifts at Middle Mouth produced 33% and 46% of the coho salmon captured at Sites 1 and 2, respectively (Appendix D2).

A total of 429 coho salmon were sampled from both stations combined for ASL determination through 13 September (Table 4). Females made up an unweighted 55.7% (n = 239) of the fish sampled at both stations. Age-2.1 was the dominant age class, accounting for 80.2% of the fish aged, and age-1.1 and 3.1 fish represented 18.9% and 0.9% of the unweighted age sample. Mean lengths for females were 588 mm for age-1.1 (n = 41), 582 mm for age-2.1 (n = 196), and 607 mm for age-3.1 (n = 2). Mean lengths for males were 587 mm for age-1.1 (n = 40), 578 mm for age-2.1 (n = 148), and 602 mm for age-3.1 (n = 2).

During the 2015 season, the dominant average winds at the Emmonak Airport were from the south and west. South and west winds were associated with the highest daily fall chum salmon CPUEs and 75% of their overall CPUE at LYTF (Appendix B3). The influence of these south-westerly winds on fall chum salmon CPUE is consistent with historical observations (2001–2014; see Appendix B4), and local knowledge.

ACKNOWLEDGEMENTS

The Lower Yukon River drift gillnet test fishery project is a cooperative study between ADF&G and Yukon Delta Fisheries Development Association (YDFDA). The Alaska Department of Fish and Game would like to acknowledge the work of the entire technical staff dedicated to this project, including ADF&G staff Mick Leach, Nick Ellickson, Dameon Stevens; and YDFDA technicians Henry Uisok, John Kameroff, Willy Augustine, Robert Alstrom, Loraine Murphy, Isaiah Charles, and Mark Tucker. The authors would also like to acknowledge Larry DuBois, Jim O'Rourke, and Bonnie Borba for compiling ASL data. Furthermore, the authors would like to thank the reviewers for their constructive comments.

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TABLES AND FIGURES

Table 1.–Daily and cumulative catch and catch per unit effort (CPUE) of fall chum salmon in the Lower Yukon drift gillnet test fishery, 2015.

	Big Eddy					Middle Mouth					Combined			
	Daily	Daily	Cumulative			Daily	Daily	Cumulative			Daily	Daily	Cumulative	
Date	Catch	CPUE	Proportion	CPUE		Catch	CPUE	Proportion	CPUE		Catch	CPUE	Proportion	CPUE
16 Jul	0	0.0	0.00	0.0		0	0.0	0.00	0.0		0	0.0	0.00	0.0
17 Jul	4	6.2	0.00	6.2		16	23.1	0.04	23.1		20	14.6	0.01	14.6
18 Jul	47	74.5	0.05	80.6		22	33.9	0.09	57.0		69	54.2	0.05	68.8
19 Jul	24	35.4	0.07	116.0		16	22.6	0.13	79.7		40	29.0	0.08	97.9
20 Jul [a]	0	0.0	0.07	116.0	[a]	5	14.7	0.16	94.4		5	7.4	0.08	105.2
21 Jul	0	0.0	0.07	116.0		2	3.0	0.16	97.3		2	1.5	0.08	106.7
22 Jul	0	0.0	0.07	116.0		6	9.0	0.18	106.4		6	4.5	0.09	111.2
23 Jul [a]	0	0.0	0.07	116.0	[a]	0	0.0	0.18	106.4		0	0.0	0.09	111.2
24 Jul [b]	0	0.0	0.07	116.0		18	26.4	0.22	132.8		18	13.2	0.10	124.4
25 Jul	0	0.0	0.07	116.0		5	7.4	0.23	140.1		5	3.7	0.10	128.1
26 Jul	2	3.0	0.07	119.1		0	0.0	0.23	140.1		2	1.5	0.10	129.6
27 Jul [a]	7	20.0	0.08	139.1		2	3.0	0.24	143.1		9	8.7	0.11	138.3
28 Jul [b]	46	56.1	0.11	195.1		16	23.4	0.28	166.5		62	43.0	0.14	181.3
29 Jul	52	67.2	0.15	262.3		7	10.0	0.29	176.5		59	38.6	0.17	219.9
30 Jul [a]	32	99.4	0.21	361.7	[a]	0	0.0	0.29	176.5		32	49.7	0.21	269.5
31 Jul	1	1.5	0.21	363.2		0	0.0	0.29	176.5		1	0.8	0.21	270.3
1 Aug [b]	76	72.3	0.26	435.5		6	7.7	0.31	184.3		82	46.5	0.25	316.8
2 Aug [a]	41	159.4	0.35	594.9	[a]	15	42.1	0.37	226.3		56	100.8	0.33	417.5
3 Aug	19	28.8	0.37	623.7		9	13.1	0.40	239.4		28	20.9	0.35	438.4
4 Aug	3	4.7	0.37	628.4		21	28.2	0.44	267.6		24	16.4	0.36	454.9
5 Aug	0	0.0	0.37	628.4		4	5.9	0.45	273.5		4	3.0	0.36	457.8
6 Aug [a,b]	3	4.4	0.37	632.7	[a]	1	3.1	0.46	276.6		4	4.0	0.37	461.8
7 Aug	4	6.0	0.38	638.8		7	10.4	0.48	287.0		11	8.2	0.37	470.0
8 Aug	1	1.4	0.38	640.2		6	8.8	0.49	295.8		7	5.1	0.38	475.1
9 Aug [c]	1	3.2	0.38	643.4		1	1.5	0.49	297.3		2	2.2	0.38	477.3
10 Aug [a]	38	145.6	0.46	789.0	[a]	7	20.1	0.53	317.4		45	82.9	0.44	560.2
11 Aug [b]	116	144.8	0.55	933.7		29	40.1	0.59	357.5		145	102.9	0.53	663.1
12 Aug	38	57.3	0.58	991.0		16	23.5	0.63	381.1		54	40.4	0.56	703.5
13 Aug [a]	31	83.4	0.63	1,074.4	[a]	13	34.5	0.69	415.6		44	59.0	0.60	762.5
14 Aug	6	8.6	0.64	1,083.0		24	34.8	0.75	450.4		30	21.7	0.62	784.1

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Table 1.–Page 2 of 2.

	Big Eddy				Middle Mouth				Combined			
	Daily	Daily	Cumulative		Daily	Daily	Cumulative		Daily	Daily	Cumulative	
Date	Catch	CPUE	Proportion	CPUE	Catch	CPUE	Proportion	CPUE	Catch	CPUE	Proportion	CPUE
15 Aug	1	1.5	0.64	1,084.5	10	14.7	0.77	465.1	11	8.1	0.63	792.2
16 Aug	0	0.0	0.64	1,084.5	3	4.5	0.78	469.6	3	2.2	0.63	794.5
17 Aug	0	0.0	0.64	1,084.5	0	0.0	0.78	469.6	0	0.0	0.63	794.5
18 Aug	1	1.5	0.64	1,086.0	3	4.5	0.79	474.1	4	3.0	0.63	797.5
19 Aug	129	246.2	0.78	1,332.2	36	51.4	0.87	525.6	165	148.8	0.75	946.3
20 Aug [b]	67	65.5	0.82	1,397.7	12	17.9	0.90	543.4	79	46.5	0.79	992.8
21 Aug	4	5.9	0.83	1,403.6	3	4.4	0.91	547.8	7	5.1	0.79	997.9
22 Aug	55	73.9	0.87	1,477.5	0	0.0	0.91	547.8	55	37.0	0.82	1,034.9
23 Aug [a]	11	33.0	0.89	1,510.5	[a] 1	2.9	0.91	550.7	12	17.9	0.83	1,052.8
24 Aug [c]	0	0.0	0.89	1,510.5	[c] 2	5.7	0.92	556.5	2	2.9	0.84	1,055.7
25 Aug [c]	113	168.0	0.99	1,678.5	[c] –	–	0.92	556.5	113	168.0	0.97	1,223.7
26 Aug [c]	3	9.1	0.99	1,687.6	[c] –	–	0.92	556.5	3	9.1	0.98	1,232.8
27 Aug [a]	1	3.0	1.00	1,690.6	[a] 14	42.0	0.99	598.5	15	22.5	0.99	1,255.3
28 Aug	5	7.7	1.00	1,698.3	4	5.4	1.00	603.8	9	6.5	1.00	1,261.8
Total	982			1,698.3	362			603.8	1,344			1,261.8

Note: The box within the column indicates the first to the third quarter of the cumulative CPUE. The midpoint of the cumulative CPUE is indicated in the bold box. Each station (Big Eddy or Middle Mouth) has 2 drift sites, data are combined. Combined Big Eddy and Middle Mouth stations' daily and cumulative CPUE are divided in 2 to scale down the comparisons. En dash indicates no data collected.

[a] 1 or more drifts cancelled due to commercial period.

[b] Includes supplemental drifts.

[c] 1 or more drifts cancelled due to hazardous weather.

Table 2.–Age, sex and length of fall chum salmon sampled in the Lower Yukon drift gillnet test fishery, 2015.

Station	Sample Size		Sex	Brood Year and Age Class									
				2012		2011		2010		2009			
				Age-0.2		Age-0.3		Age-0.4		Age-0.5		Total	
Big Eddy	597			No.	%	No.	%	No.	%	No.	%	No.	%
			Females	21	3.5	225	37.6	127	21.2	12	2.0	385	64.5
			Males	23	4.0	104	17.4	78	13.0	7	1.2	213	35.5
			Subtotal	44	7.4	329	55.1	205	34.3	19	3.2	598	100.0
		Mean Length (mm)	Females	564		580		589		593		583	
		SE		4		2		2		9		1	
		Mean Length (mm)	Males	553		584		599		603		586	
		SE		6		3		4		10		2	
Middle Mouth	346			No.	%	No.	%	No.	%	No.	%	No.	%
			Females	12	3.5	131	37.9	58	16.8	6	1.7	207	59.8
			Males	18	5.2	82	23.7	37	10.7	2	0.6	139	40.2
			Subtotal	30	8.7	213	61.6	95	27.5	8	2.3	346	100.0
		Mean Length (mm)	Females	546		575		588		586		578	
		SE		5		2		4		12		2	
		Mean Length (mm)	Males	565		583		603		586		586	
		SE		6		3		4		6		2	
Season Total	943			No.	%	No.	%	No.	%	No.	%	No.	%
			Females	33	3.5	356	37.8	185	19.6	18	1.9	592	62.8
			Males	41	4.3	186	19.7	115	12.2	9	1.0	352	37.2
			Total	74	7.8	542	57.5	300	31.8	27	2.9	944	100.0
		Mean Length (mm)	Females	558		578		589		590		581	
		SE		3		1		2		7		1	
		Mean Length (mm)	Males	558		583		600		596		586	
		SE		4		2		3		10		2	

Table 3.–Daily and cumulative catch and catch per unit effort (CPUE) of coho salmon in the Lower Yukon drift gillnet test fishery, 2015.

	Big Eddy					Middle Mouth					Combined			
	Daily	Daily	Cumulative			Daily	Daily	Cumulative			Daily	Daily	Cumulative	
Date	Catch	CPUE	Proportion	CPUE		Catch	CPUE	Proportion	CPUE		Catch	CPUE	Proportion	CPUE
16 Jul	0	0.0	0.00	0.0		0	0.0	0.00	0.0		0	0.0	0.00	0.0
17 Jul	0	0.0	0.00	0.0		0	0.0	0.00	0.0		0	0.0	0.00	0.0
18 Jul	0	0.0	0.00	0.0		0	0.0	0.00	0.0		0	0.0	0.00	0.0
19 Jul	1	1.5	0.00	1.5		0	0.0	0.00	0.0		1	0.7	0.00	0.7
20 Jul [a]	0	0.0	0.00	1.5	[a]	0	0.0	0.00	0.0		0	0.0	0.00	0.7
21 Jul	0	0.0	0.00	1.5		0	0.0	0.00	0.0		0	0.0	0.00	0.7
22 Jul	0	0.0	0.00	1.5		0	0.0	0.00	0.0		0	0.0	0.00	0.7
23 Jul [a]	0	0.0	0.00	1.5	[a]	0	0.0	0.00	0.0		0	0.0	0.00	0.7
24 Jul [b]	0	0.0	0.00	1.5		0	0.0	0.00	0.0		0	0.0	0.00	0.7
25 Jul	0	0.0	0.00	1.5		1	1.5	0.01	1.5		1	0.7	0.00	1.5
26 Jul	0	0.0	0.00	1.5		0	0.0	0.01	1.5		0	0.0	0.00	1.5
27 Jul [a]	0	0.0	0.00	1.5		0	0.0	0.01	1.5		0	0.0	0.00	1.5
28 Jul [b]	1	1.4	0.01	2.9		0	0.0	0.01	1.5		1	0.9	0.01	2.3
29 Jul	1	1.6	0.01	4.5		0	0.0	0.01	1.5		1	0.8	0.01	3.1
30 Jul [a]	0	0.0	0.01	4.5	[a]	0	0.0	0.01	1.5		0	0.0	0.01	3.1
31 Jul	0	0.0	0.01	4.5		0	0.0	0.01	1.5		0	0.0	0.01	3.1
1 Aug [b]	14	13.1	0.03	17.5		1	1.5	0.01	3.0		15	8.5	0.03	11.6
2 Aug [a]	5	18.3	0.06	35.8	[a]	2	5.7	0.04	8.7		7	12.0	0.06	23.6
3 Aug	8	12.2	0.08	48.0		6	8.8	0.09	17.5		14	10.5	0.08	34.0
4 Aug	0	0.0	0.08	48.0		1	1.5	0.09	19.0		1	0.8	0.08	34.8
5 Aug	0	0.0	0.08	48.0		0	0.0	0.09	19.0		0	0.0	0.08	34.8
6 Aug [a,b]	3	4.4	0.09	52.4	[a]	0	0.0	0.09	19.0		3	2.9	0.09	37.7
7 Aug	1	1.5	0.10	53.9		0	0.0	0.09	19.0		1	0.8	0.09	38.5
8 Aug	2	2.9	0.10	56.7		3	4.4	0.12	23.4		5	3.6	0.10	42.1
9 Aug [c]	0	0.0	0.10	56.7		7	10.4	0.17	33.7		7	5.9	0.11	48.0
10 Aug [a]	16	60.8	0.21	117.5	[a]	9	26.3	0.30	60.0		25	43.5	0.22	91.5
11 Aug [b]	39	62.4	0.32	179.9		8	10.8	0.35	70.8		47	41.8	0.32	133.3
12 Aug	25	34.8	0.38	214.7		10	14.8	0.42	85.6		35	24.8	0.38	158.1
13 Aug [a]	15	40.1	0.45	254.8	[a]	2	5.5	0.45	91.1		17	22.8	0.43	180.9
14 Aug	2	3.0	0.46	257.8		6	8.6	0.49	99.8		8	5.8	0.45	186.7

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Table 3.–Page 2 of 2.

	Big Eddy				Middle Mouth				Combined			
	Daily	Daily	Cumulative		Daily	Daily	Cumulative		Daily	Daily	Cumulative	
Date	Catch	CPUE	Proportion	CPUE	Catch	CPUE	Proportion	CPUE	Catch	CPUE	Proportion	CPUE
15 Aug	0	0.0	0.46	257.8	2	3.0	0.51	102.7	2	1.5	0.45	188.2
16 Aug	0	0.0	0.46	257.8	3	4.4	0.53	107.2	3	2.2	0.45	190.4
17 Aug	3	4.5	0.46	262.3	0	0.0	0.53	107.2	3	2.2	0.46	192.6
18 Aug	20	28.0	0.51	290.3	1	1.5	0.54	108.7	21	14.8	0.50	207.4
19 Aug	31	55.7	0.61	346.0	7	10.0	0.59	118.7	38	32.9	0.57	240.3
20 Aug [b]	37	36.1	0.67	382.1	17	25.4	0.71	144.1	54	31.8	0.65	272.1
21 Aug	5	7.4	0.69	389.4	15	22.0	0.82	166.1	20	14.7	0.69	286.8
22 Aug	17	22.9	0.73	412.3	1	1.5	0.83	167.6	18	12.2	0.71	299.0
23 Aug [a]	17	51.0	0.82	463.3	[a] 1	2.9	0.84	170.6	18	27.0	0.78	325.9
24 Aug [c]	7	20.8	0.85	484.1	[c] 2	5.9	0.87	176.4	9	13.3	0.81	339.2
25 Aug [c]	29	44.1	0.93	528.2	[c] –	–	0.87	176.4	29	44.1	0.92	383.4
26 Aug [c]	2	6.3	0.94	534.5	[c] –	–	0.87	176.4	2	6.3	0.93	389.7
27 Aug [a]	5	15.0	0.97	549.5	[a] 5	15.0	0.95	191.4	10	15.0	0.97	404.7
28 Aug	11	16.8	1.00	566.3	8	10.8	1.00	202.2	19	13.8	1.00	418.5
Total	317			566.3	118			202.2	435			418.5

Note: The box within the column indicates the first to the third quarter of the cumulative CPUE. The midpoint of the cumulative CPUE is indicated in the bold box. Each station (Big Eddy or Middle Mouth) has 2 drift sites, data are combined. Combined Big Eddy and Middle Mouth stations' daily and cumulative CPUE are divided in 2 to scale down the comparisons. En dash indicates no data collected.

[a] 1 or more drifts cancelled due to commercial period.

[b] Includes supplemental drifts.

[c] 1 or more drifts cancelled due to hazardous weather.

Table 4.–Age, sex and length of coho salmon sampled in the Lower Yukon drift gillnet test fishery, 16 July–13 September, 2015.

Station	Sample Size		Sex	Brood Year and Age Class							
				2012 Age-1.1		2011 Age-2.1		2010 Age-3.1		Total	
Big Eddy	304			No.	%	No.	%	No.	%	No.	%
			Females	31	10.2	138	45.4	0	0.0	169	55.6
			Males	30	9.9	103	33.9	2	0.7	135	44.4
			Subtotal	61	20.1	241	79.3	2	0.7	304	100.0
		Mean Length (mm)	Females	588		581		–		582	
		SE		4		2		–		2	
		Mean Length (mm)	Males	583		576		602		578	
		SE		5		4		19		3	
Middle Mouth	125			No.	%	No.	%	No.	%	No.	%
			Females	10	8.0	58	46.4	2	1.6	70	56.0
			Males	10	8.0	45	36.0	0	0.0	55	44.0
			Subtotal	20	16.0	103	82.4	2	1.6	125	100.0
		Mean Length (mm)	Females	587		583		607		584	
		SE		6		4		5		3	
		Mean Length (mm)	Males	600		581		–		585	
		SE		7		4		–		3	
Season Total	429			No.	%	No.	%	No.	%	No.	%
			Females	41	9.6	196	45.7	2	0.5	239	55.7
			Males	40	9.3	148	34.5	2	0.5	190	44.3
			Total	81	18.9	344	80.2	4	0.9	429	100.0
		Mean Length (mm)	Females	588		583		612		584	
		SE		3		2		–		2	
		Mean Length (mm)	Males	587		577		602		580	
		SE		5		3		19		3	

Note: En dash indicates data was unattainable.

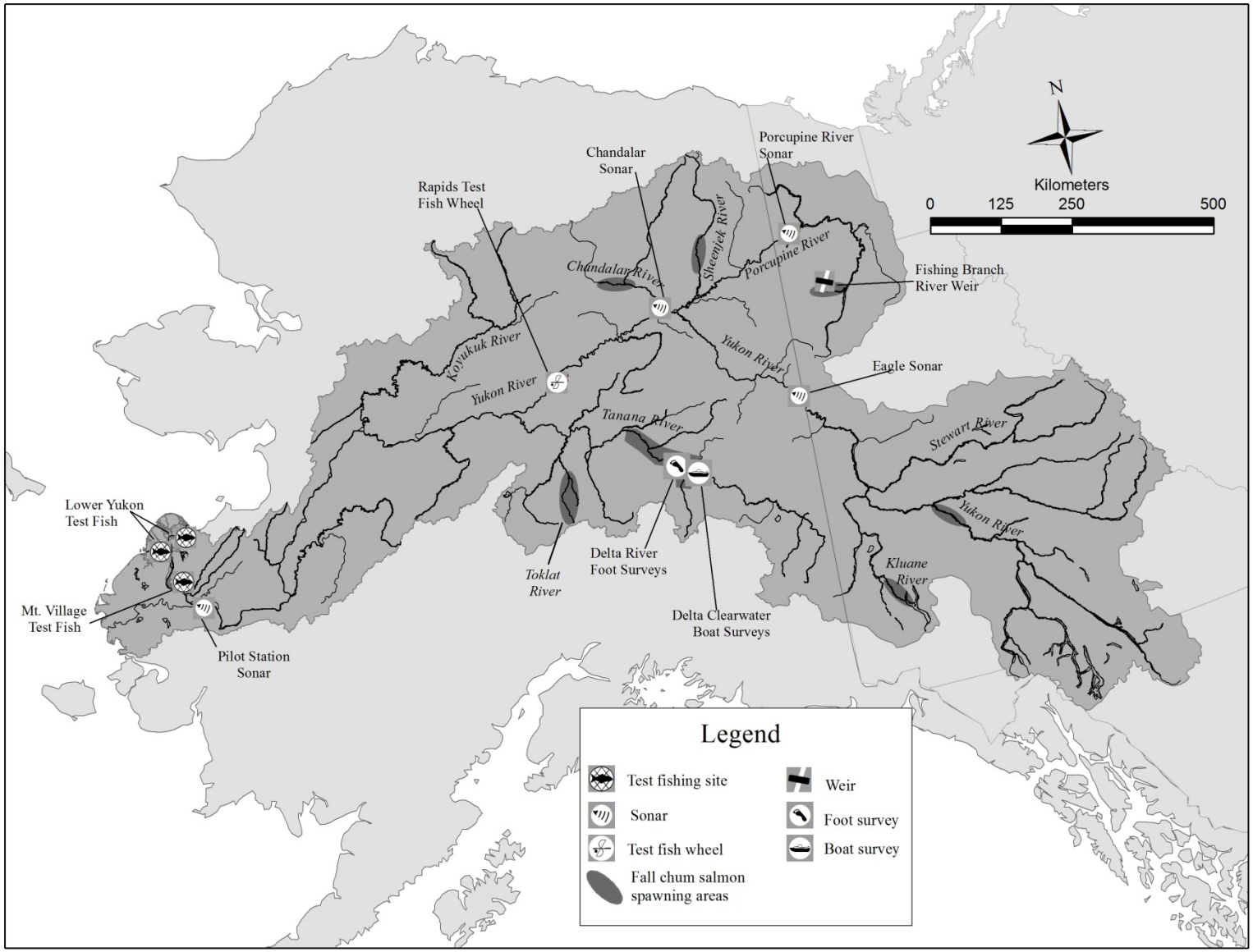

Figure 1.–Select project site locations for fall season salmon assessment in the Yukon River drainage, 2015.

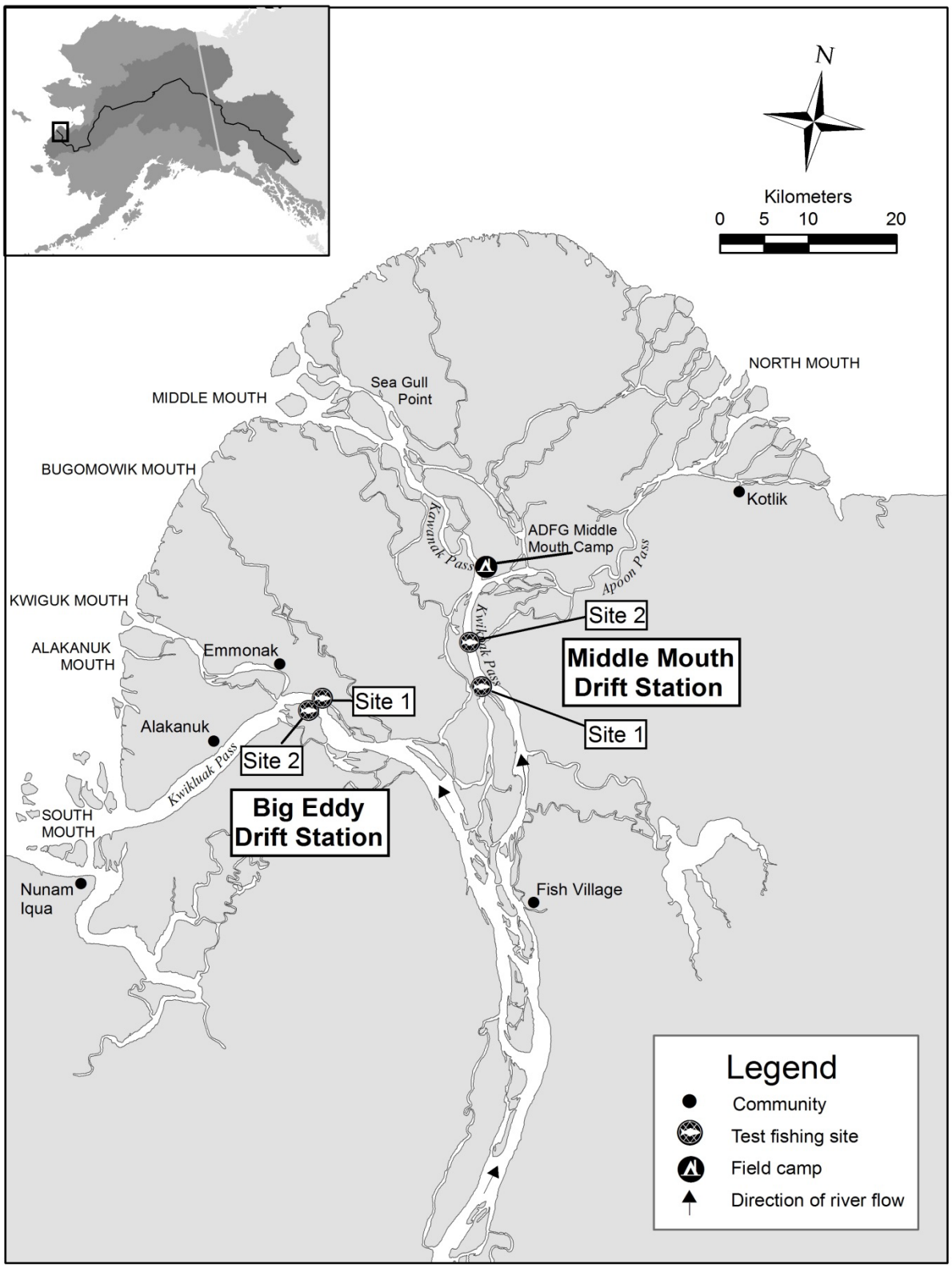

Figure 2.–Drift sites for the fall season cooperative Lower Yukon drift gillnet test fishery, Yukon River, 2015.

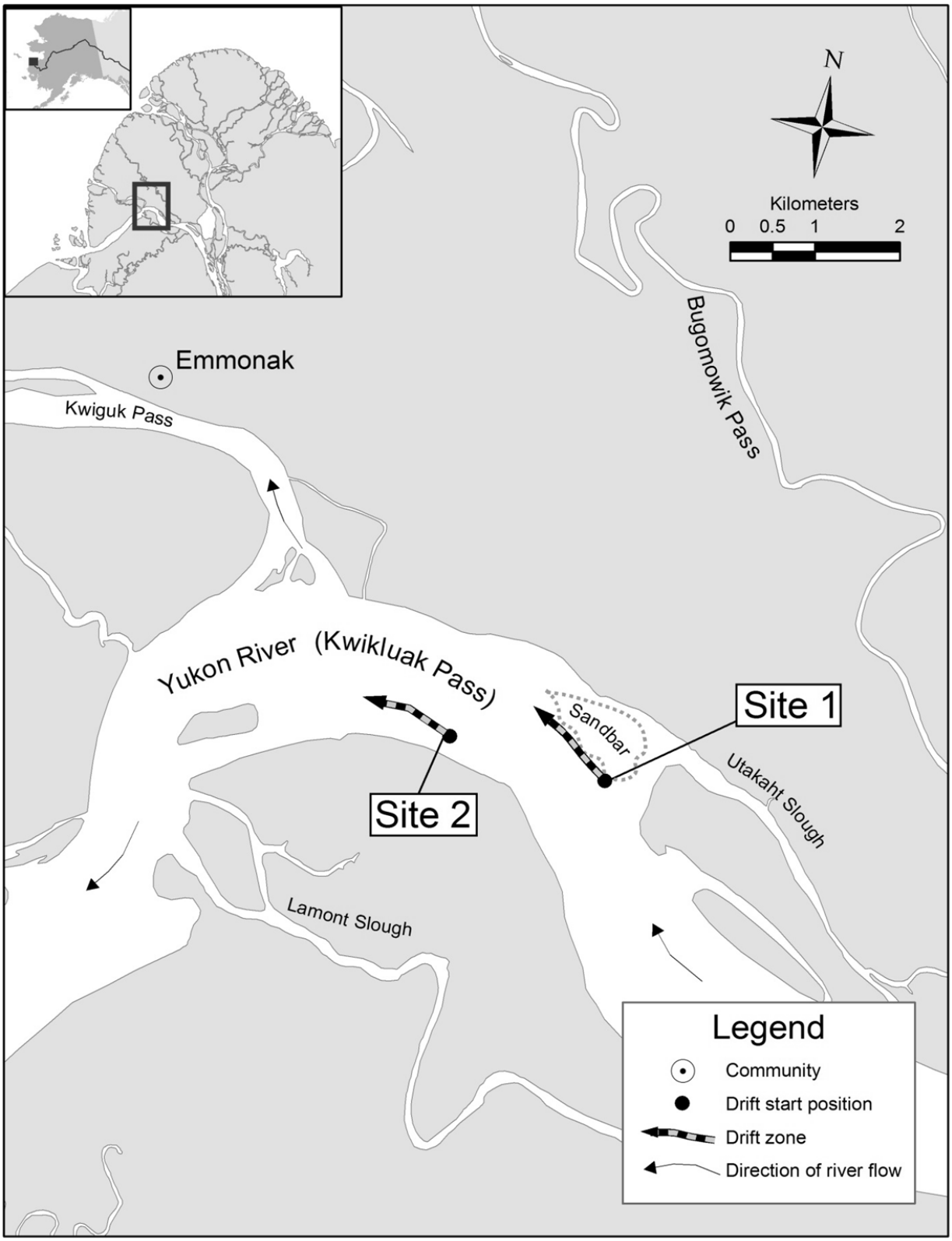

Figure 3.–Big Eddy Station test drift gillnet sites in the lower Yukon River, 2015.

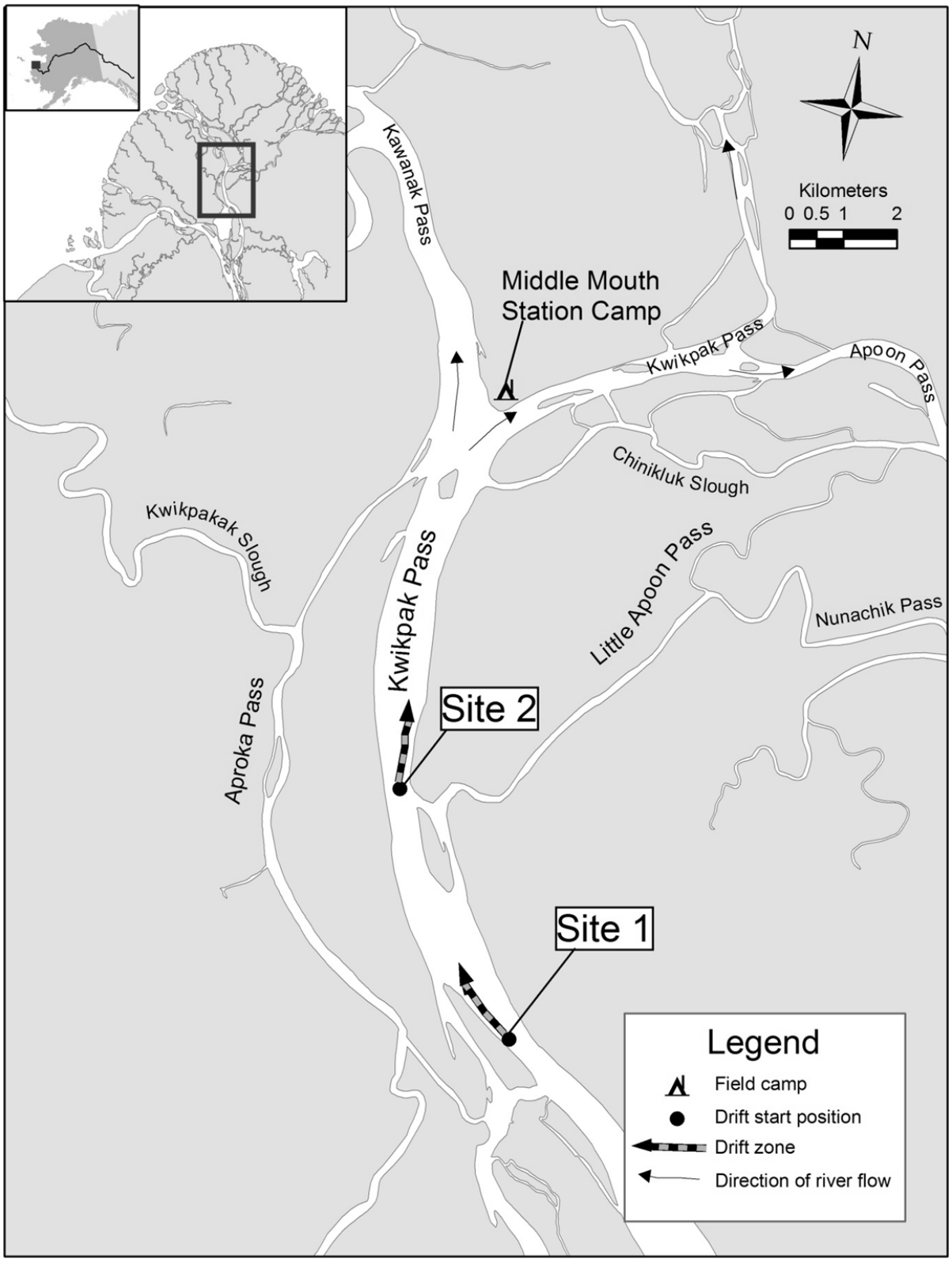

Figure 4.–Middle Mouth Station test drift gillnet sites in the lower Yukon River, 2015.

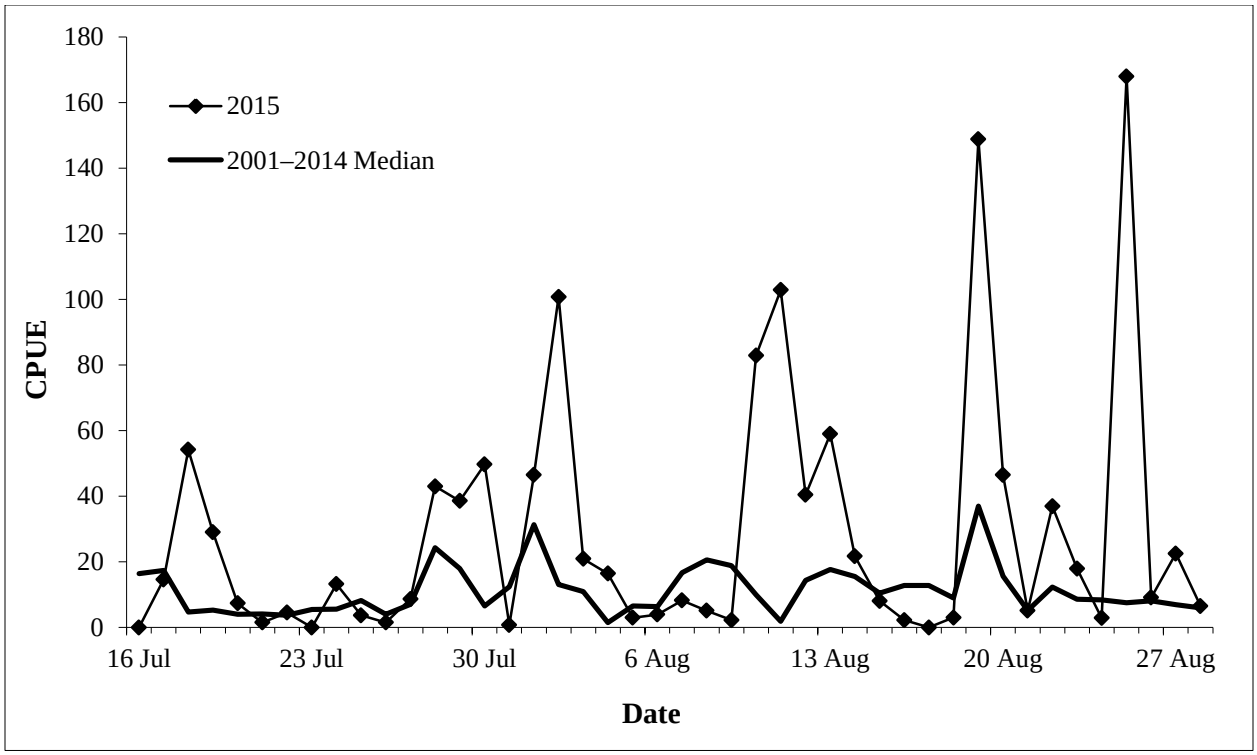

Figure 5.–Daily catch per unit effort (CPUE) for fall chum salmon in the fall season Lower Yukon drift gillnet test fishery, Yukon River, 2015 compared to the 2001–2014 median.

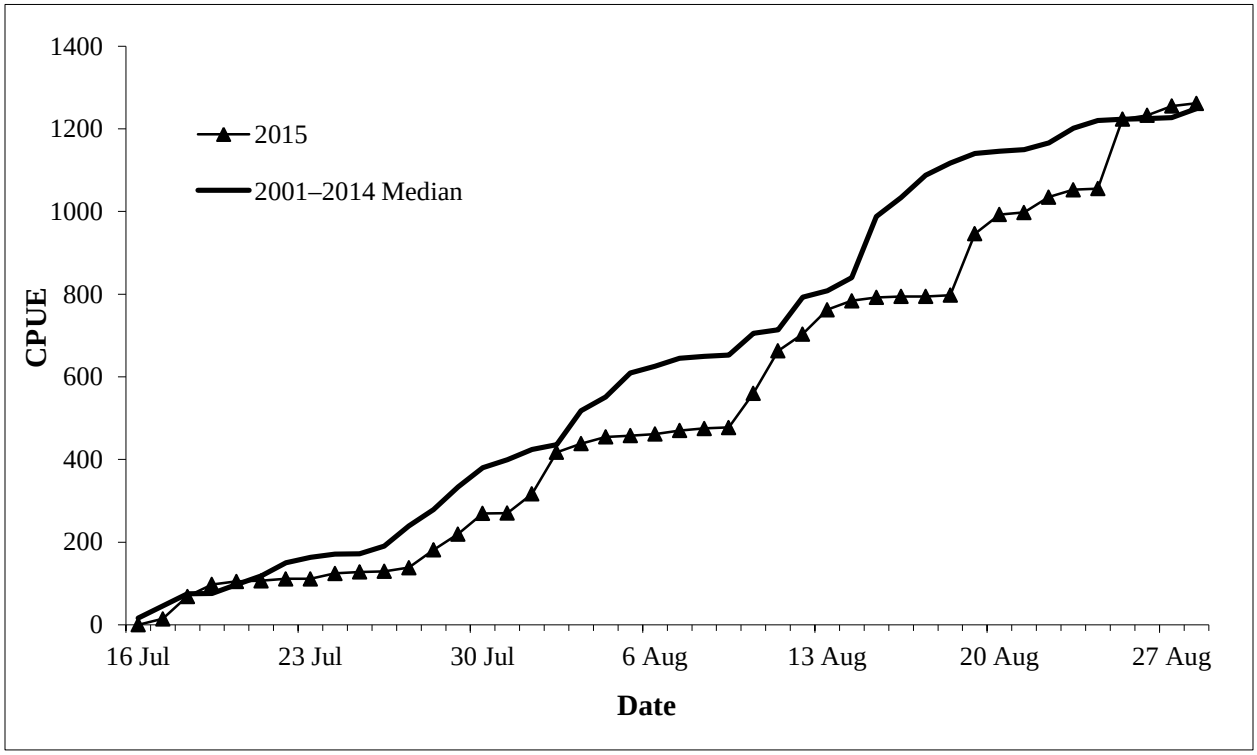

Figure 6.–Cumulative catch per unit effort (CPUE) for fall chum salmon in the fall season Lower Yukon drift gillnet test fishery, Yukon River, 2015 compared to the 2001–2014 median.

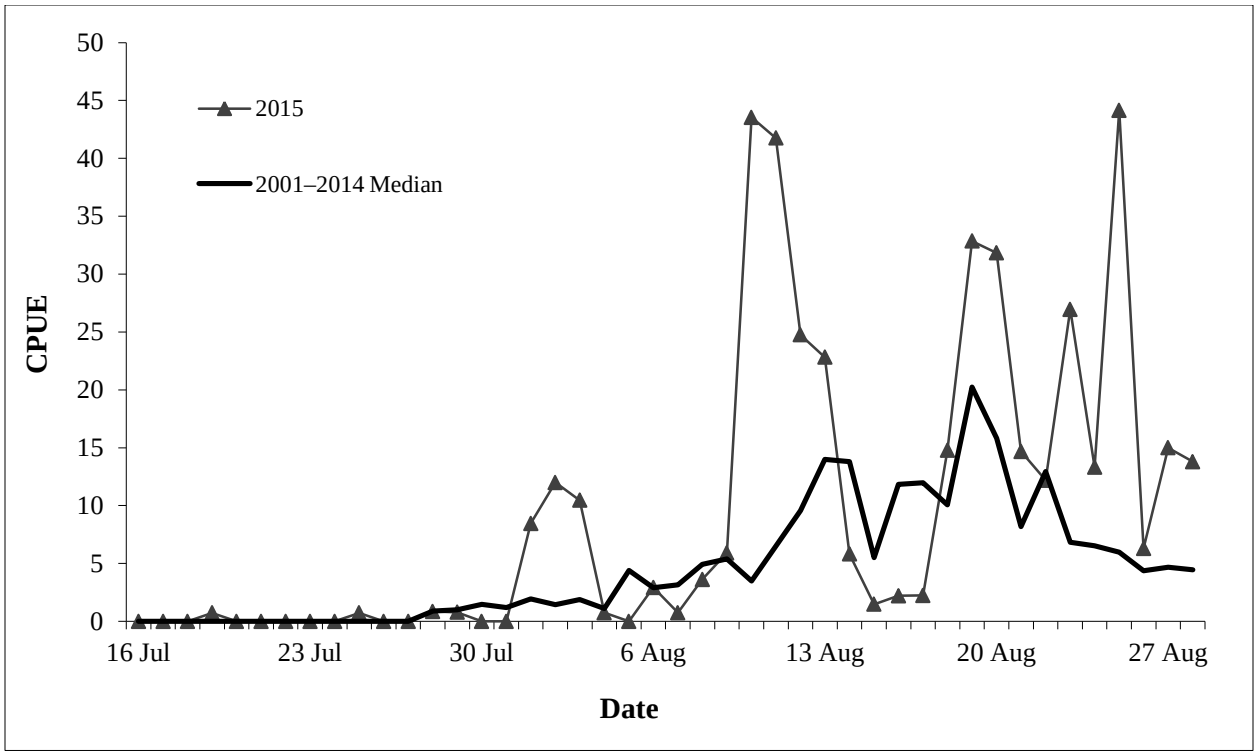

Figure 7.–Daily catch per unit effort (CPUE) for coho salmon in the fall season Lower Yukon drift gillnet test fishery, Yukon River, 2015 compared to the 2001–2014 median .

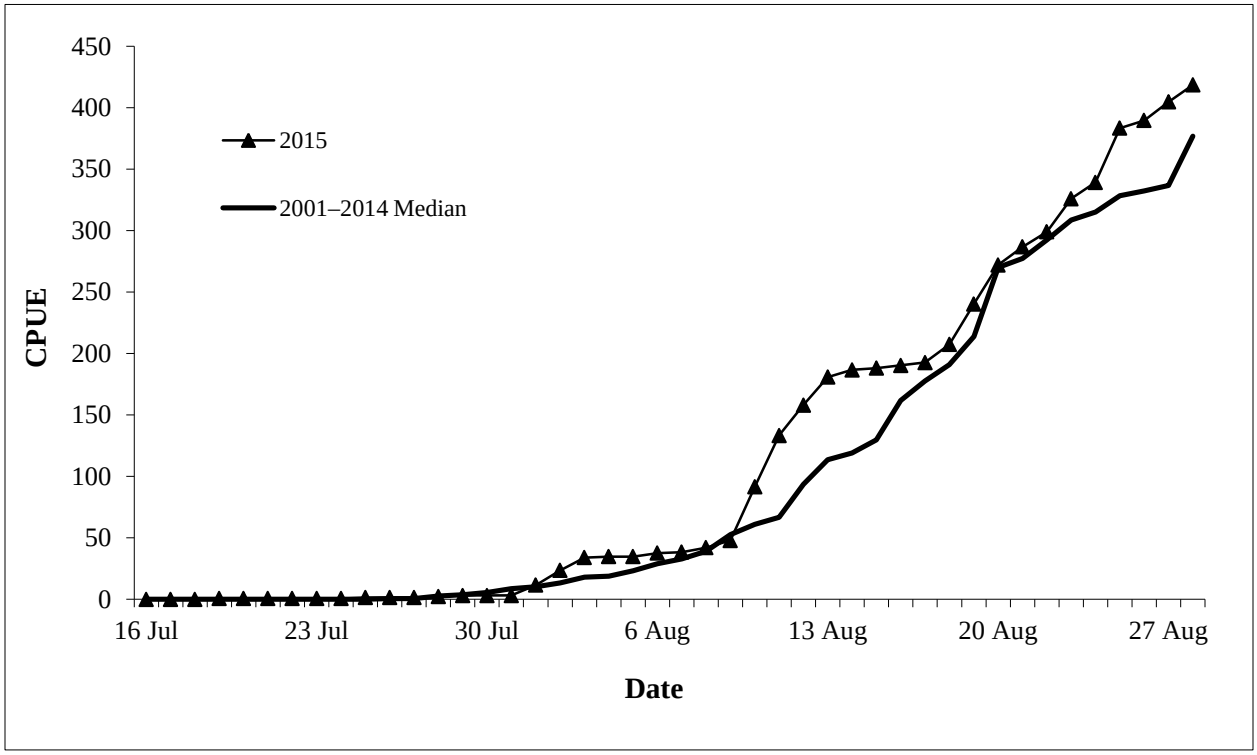

Figure 8.–Cumulative catch per unit effort (CPUE) for coho salmon in the fall season Lower Yukon drift gillnet test fishery, Yukon River, 2015 compared to the 2001–2014 median.

APPENDIX A: DRIFT EXTENSION CPUE

Appendix A1.–Extension of fall chum salmon catch and catch per unit effort (CPUE) information, Lower Yukon drift gillnet test fishery, Yukon River, 2015.

	Big Eddy				Middle Mouth				Combined			
Date	Daily Catch	Daily CPUE	Proportion	Cum. CPUE	Daily Catch	Daily CPUE	Proportion	Cum. CPUE	Daily Catch	Daily CPUE	Proportion	Cum. CPUE
29 Aug [a]	4	12.3	0.94	1710.6	[a] 4	12.3	0.93	616.1	8	12.3	0.94	1274.1
30 Aug [b]	1	3.4	0.95	1714.0	[a,b] –	0.0	0.93	616.1	1	3.4	0.94	1277.6
31 Aug	13	21.4	0.96	1735.4	10	15.4	0.96	631.5	23	18.4	0.96	1295.9
1 Sep [a]	2	6.2	0.96	1741.5	[a] 2	6.2	0.97	637.7	4	6.2	0.96	1302.1
2 Sep [b]	0	0.0	0.96	1741.5	[b] 1	3.1	0.97	640.7	1	1.5	0.96	1303.6
3 Sep	5	7.7	0.97	1749.2	2	3.1	0.98	643.8	7	5.4	0.97	1309.0
4 Sep [b]	5	15.4	0.97	1764.6	[b] 1	3.1	0.98	646.9	6	9.2	0.97	1318.3
5 Sep [c]	1	3.1	0.98	1767.7	[c] 0	0.0	0.98	646.9	1	1.5	0.98	1319.8
6 Sep	1	1.5	0.98	1769.2	0	0.0	0.98	646.9	1	0.8	0.98	1320.6
7 Sep	1	1.5	0.98	1770.8	1	1.5	0.98	648.4	2	1.5	0.98	1322.1
8 Sep	9	13.8	0.98	1784.6	[a] 0	0.0	0.98	648.4	9	9.2	0.98	1331.3
9 Sep	13	19.9	1.00	1804.5	6	9.2	1.00	657.7	19	14.6	0.99	1345.9
10 Sep	2	3.1	1.00	1807.6	[a] –	–	1.00	657.7	2	3.1	1.00	1349.0
11 Sep [a]	–	–	1.00	1807.6	[a] –	–	1.00	657.7	0	0.0	1.00	1349.0
12 Sep	3	4.6	1.00	1812.2	[a] 0	0.0	1.00	657.7	3	3.1	1.00	1352.0
13 Sep [a]	0	0.0	1.00	1812.2	0	0.0	1.00	657.7	0	0.0	1.00	1352.0
14 Sep	0	0.0	1.00	1812.2	0	0.0	1.00	657.7	0	0.0	1.00	1352.0
15 Sep	0	0.0	1.00	1812.2	1	1.5	1.00	659.2	1	0.8	1.00	1352.8
16 Sep	0	0.0	1.00	1812.2	0	0.0	1.00	659.2	0	0.0	1.00	1352.8
17 Sep [a]	0	0.0	1.00	1812.2	[a] 0	0.0	1.00	659.2	0	0.0	1.00	1352.8
18 Sep [a]	0	0.0	1.00	1812.2	[a] 0	0.0	1.00	659.2	0	0.0	1.00	1352.8
19 Sep	0	0.0	1.00	1812.2	0	0.0	1.00	659.2	0	0.0	1.00	1352.8
20 Sep [d]	0	0.0	1.00	1812.2	[d] 0	0.0	1.00	659.2	0	0.0	1.00	1352.8
Total	60	113.9		1812.2	28	55.4		659.2	88	91.0		1352.8

Note: In 2015 ADF&G ceased operation of project on 28 August. Kwik'pak Fisheries and YDFDA personnel assumed LYTF operations through 20 September. Proportion and cumulative CPUE columns are continuous from project start date, 16 July 2015. En dash indicates no data collected.

[a] 1 or more drifts cancelled due to hazardous weather.

[b] 1 or more drifts cancelled due to commercial period.

[c] 1 or more drifts cancelled for undocumented reason.

[d] Morning drifts only, last day of operation.

Appendix A2.–Extension of coho salmon catch and catch per unit effort (CPUE) data for coho salmon in the Lower Yukon drift gillnet test fishery, Yukon River, 2015.

	Big Eddy				Middle Mouth				Combined			
Date	Daily Catch	Daily CPUE	Proportion	Cum. CPUE	Daily Catch	Daily CPUE	Proportion	Cum. CPUE	Daily Catch	Daily CPUE	Proportion	Cum. CPUE
29 Aug [a]	3	9.2	0.79	575.5	[a] 2	6.2	0.84	208.4	5	7.7	0.79	426.2
30 Aug [b]	1	3.1	0.79	578.6	[a,b] –	–	0.84	208.4	1	3.1	0.80	429.2
31 Aug	3	4.6	0.80	583.2	2	3.1	0.86	211.4	5	3.8	0.80	433.1
1 Sep [a]	7	21.5	0.83	604.8	[a] 3	9.2	0.89	220.7	10	15.4	0.83	448.5
2 Sep [b]	0	0.0	0.83	604.8	[b] 0	0.0	0.89	220.7	0	0.0	0.83	448.5
3 Sep	15	23.1	0.86	627.9	2	3.1	0.91	223.7	17	13.1	0.86	461.5
4 Sep [b]	2	6.2	0.87	634.0	[b] 1	3.1	0.92	226.8	3	4.6	0.87	466.2
5 Sep [c]	3	9.2	0.88	643.2	[c] 1	3.1	0.93	229.9	4	6.2	0.88	472.3
6 Sep	3	4.6	0.88	647.9	2	3.1	0.94	233.0	5	3.8	0.88	476.2
7 Sep	4	6.2	0.89	654.0	0	0.0	0.94	233.0	4	3.1	0.89	479.2
8 Sep	12	18.5	0.92	672.5	[a] 0	0.0	0.94	233.0	12	12.3	0.91	491.5
9 Sep	20	30.7	0.96	703.1	6	9.2	0.98	242.2	26	19.9	0.95	511.5
10 Sep	12	18.5	0.98	721.6	[a] –	–	0.98	242.2	12	18.5	0.98	530.0
11 Sep [a]	0	0.0	0.98	721.6	[a] –	–	0.98	242.2	0	0.0	0.98	530.0
12 Sep	6	9.2	1.00	730.8	[a] 1	3.1	0.99	245.3	7	7.2	1.00	537.1
13 Sep [a]	1	2.1	1.00	732.9	1	1.5	1.00	246.8	2	1.8	1.00	538.9
14 Sep	0	0.0	1.00	732.9	0	0.0	1.00	246.8	0	0.0	1.00	538.9
15 Sep	0	0.0	1.00	732.9	0	0.0	1.00	246.8	0	0.0	1.00	538.9
16 Sep	0	0.0	1.00	732.9	0	0.0	1.00	246.8	0	0.0	1.00	538.9
17 Sep [a]	0	0.0	1.00	732.9	[a] 0	0.0	1.00	246.8	0	0.0	1.00	538.9
18 Sep [a]	0	0.0	1.00	732.9	[a] 0	0.0	1.00	246.8	0	0.0	1.00	538.9
19 Sep	0	0.0	1.00	732.9	0	0.0	1.00	246.8	0	0.0	1.00	538.9
20 Sep [d]	0	0.0	1.00	732.9	[d] 0	0.0	1.00	246.8	0	0.0	1.00	538.9
Total	92	166.6		732.9	21	44.6		246.8	113	120.4		538.9

Note: In 2015 ADF&G ceased operation of project on 28 August. Kwik'pak Fisheries and YDFDA personnel assumed LYTF operations through 20 September. Proportion and cumulative CPUE columns are continuous from project start date, 16 July 2015. En dash indicates no data collected.

[a] 1 or more drifts cancelled due to hazardous weather.

[b] 1 or more drifts cancelled due to commercial period.

[c] 1 or more drifts cancelled for undocumented reason.

[d] Morning drifts only, last day of operation.

APPENDIX B: CLIMATE AND STREAM OBSERVATIONS

Appendix B1.–Fall season climatological and stream observations, Big Eddy Station, Yukon River, 2015.

	Cloud Cover (code)[a]		Precipitation (code)[b]		Wind Direction & Velocity (mph)				Temperature (°C) Air		Temperature (°C) Water Surface	
Date	AM	PM	AM	PM	AM		PM		AM	PM	AM	PM
16 Jul	1	3	0	0	NNE	10	E	15	18.3	18.9	13.5	18.8
17 Jul	4	3	0	0	NW	7	W	16	21.4	19.4	13.5	16.2
18 Jul	4	4	0	0	SW	15	SW	12	18.4	18.6	11.5	13.7
19 Jul	4	4	0	0	SE	8	SE	5	18.5	18.6	12.8	14.3
20 Jul	4	4	0	0	SE	5	NE	15	18.4	17.6	12.9	16.8
21 Jul	4	4	0	A	SE	5	SE	8	17.9	17.7	14.4	14.3
22 Jul	4	3	0	A	calm	calm	SW	12	17.7	17.4	11.9	14
23 Jul	4	4	0	0	SW	12	W	9	17.2	16.4	10.3	11.3
24 Jul	4	4	0	0	calm	calm	W	8	17	16.9	10.7	11.8
25 Jul	4	4	0	A	calm	calm	NW	10	16.7	16.7	10.9	13
26 Jul	4	1	A	0	NW	5	NW	12	16.3	16.2	11.1	12.4
27 Jul	4	4	A	0	NW	12	WNW	10	16	15.9	10.9	11.7
28 Jul	5	4	A	0	W	12	W	10	16.1	16.8	9.5	16
29 Jul	4	2	0	0	W	5	W	8	16.5	17.1	10.8	15.4
30 Jul	4	2	0	0	W	5	W	5	17.1	17.6	11.9	18.4
31 Jul	4	4	0	A	W	10	W	15	16.3	15.6	9.9	12.1
1 Aug	5	4	A	0	W	15	W	15	17.1	17	11.8	12.1
2 Aug	4	4	A	0	W	12	WSW	10	16.6	16.9	10.1	11.5
3 Aug	4	3	0	0	W	12	NW	12	17.1	17.2	9.3	11.1
4 Aug	5	4	0	0	W	8	W	13	17.1	17.5	9.3	11.6
5 Aug	5	4	0	0	NW	8	W	12	17.5	17.8	11.7	14.8
6 Aug	5	3	0	0	W	8	NW	10	17.3	17.7	9.9	13.1
7 Aug	5	3	0	0	W	5	W	10	17.6	17.7	11.7	13.1
8 Aug	5	4	A	A	W	2	NW	1	17.4	17.6	10.3	11.5
9 Aug	4	4	B	B	NW	25	NW	25	17.5	16.9	11.4	9.9
10 Aug	4	4	0	0	W	8	W	8	16.2	–	9.5	–
11 Aug	4	4	B	0	S	10	SW	8	16.3	16.3	10.4	11.2
12 Aug	4	4	0	0	SW	10	SW	13	16.1	16.3	9.8	11
13 Aug	3	3	0	0	NW	5	N	7	16.2	16.6	11.3	16.5
14 Aug	3	4	A	A	NE	5	calm	calm	15.1	15.9	10	13.5
15 Aug	4	4	B	A	SE	5	E	8	15.8	15.8	10.9	12.7
16 Aug	4	4	A	0	SE	8	SE	7	15.6	15.6	12	12.6
17 Aug	4	4	0	0	calm	calm	SW	10	15.3	15.5	12.6	14.2

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	Cloud Cover (code)[a]		Precipitation (code)[b]		Wind Direction & Velocity (mph)				Temperature (°C) Air		Temperature (°C) Water Surface	
Date	AM	PM	AM	PM	AM		PM		AM	PM	AM	PM
18 Aug	4	4	0	A	SW	18	SW	15	14.6	14.7	9.3	9.9
19 Aug	4	4	A	B	S	7.5	SW	10	14.9	14.8	11.5	11.2
20 Aug	4	4	B	0	SE	7	calm	calm	14.7	15.0	10.8	14.0
21 Aug	4	4	B	0	SE	5	W	5	15.0	15.1	10.7	10.1
22 Aug	3	3	0	0	SSW	5	W	10	14.7	14.9	10.2	10.4
23 Aug	5	–	B	–	E	5	–	–	14.7	–	9.5	–
24 Aug	5	5	B	B	SE	12	SW	25	15.0	14.7	11.8	12.2
25 Aug	5	5	B	B	SW	20	SW	20	–	14.6	–	12.8
26 Aug	5	5	B	0	SW	25	SW	25	14.3	14.2	11.3	11
27 Aug	4	1	A	0	W	20	NW	15	13.7	13.5	9.1	10.2
28 Aug	2	4	0	0	NW	15	calm	calm	13.1	12.5	8.3	10.5
				Minimum		2		1	13.1	12.5	8.3	9.9
				Mean		10		12	16.4	16.4	11.0	12.9
				Maximum		25		25	21.4	19.4	14.4	18.8

[a] Cloud cover code: 0 = No observation made. 1 = Clear sky, cloud covering not more than 1/10 of sky. 2 = Cloud covering not more than 1/2 of sky. 3 = Cloud more than 1/2 of sky. 4 = Completely overcast. 5= Fog.

[b] Precipitation code: A = Intermittent rain. B = Continuous rain. C = Snow. D = Snow and rain mixed. E = Hail. F = Thunderstorms with or without precipitation. 0 = No precipitation.

Appendix B2.–Fall season climatological and stream observations, Middle Mouth Station, Yukon River, 2015.

	Cloud Cover (code)[a]		Precipitation (code)[b]		Wind Direction & Velocity (mph)				Temperature (°C) Air		Temperature (°C) Water Surface	
Date	AM	PM	AM	PM	AM		PM		AM	PM	AM	PM
16 Jul	1	3	0	A	NE	5	NE	12.5	18.6	18.6	11.3	16.5
17 Jul	4	4	B	0	calm	calm	W	18	18.4	19	12.2	15
18 Jul	4	3	0	0	SE	15	SW	10	18.2	18.2	9.8	15.6
19 Jul	3	4	0	0	calm	calm	calm	calm	18	17.8	11	12.5
20 Jul	4	–	0	–	calm	calm	–	–	17.6	–	10.3	–
21 Jul	4	4	0	A	NE	5	calm	calm	17.5	17.6	14.4	14.6
22 Jul	4	3	A	0	calm	calm	W	12.5	17.3	17.4	10.9	13.1
23 Jul	4	4	0	0	W	8	SW	5	17.1	16.9	10.3	11.4
24 Jul	3	4	0	0	calm	calm	W	7.5	16.8	16.9	10.2	10.9
25 Jul	3	4	0	A	W	4	NW	5	16.7	17	11.2	13
26 Jul	4	1	0	0	S	5	SW	5	15.9	16.5	10.1	15.1
27 Jul	3	4	0	0	W	5	W	12.5	15.5	16.1	10.1	13.4
28 Jul	4	3	A	0	W	8	SW	13	15.7	17	8.9	14
29 Jul	4	2	A	0	SW	5	W	5	16.6	17.2	10.6	14.9
30 Jul	4	1	0	0	W	3	SW	3	17.1	15.4	12.0	17.3
31 Jul	3	3	A	0	SW	5	SW	5	17	17	13	13
1 Aug	4	4	A	0	SW	10	SW	10	15.5	17.1	12.4	11.2
2 Aug	4	3	0	0	WSW	8	S	10	16.5	17.1	9.7	11.8
3 Aug	4	2	0	0	S	3	W	15	15.7	17.5	12.6	12.7
4 Aug	4	4	0	0	W	3	W	15	16.7	17.3	9.4	11.4
5 Aug	3	3	0	0	W	5	W	12.5	17.2	17.7	11.1	14.1
6 Aug	5	1	0	0	W	3	WSW	4	17.2	17.8	8.7	13.1
7 Aug	4	3	0	0	S	5	SW	5	17.4	17.8	10.5	14.0
8 Aug	5	4	A	A	calm	calm	calm	calm	17.3	17.1	10.0	11.6
9 Aug	4	3	B	A	WNW	18	W	25	16.9	16	10.9	10
10 Aug	3	4	A	0	W	5	SE	15	16.5	16.9	8.0	12.0
11 Aug	4	4	B	0	ESE	15	SW	5	16.2	16.2	10.9	11
12 Aug	5	4	A	0	SW	8	SW	5	15.9	16.0	8.6	10.4
13 Aug	4	4	0	0	SW	3	SW	5	15.9	16.4	8.7	10.8
14 Aug	3	4	A	0	NE	5	calm	calm	15.8	15.9	9.9	13.8
15 Aug	4	3	B	0	NE	13	NE	10	15.8	16	8.9	13
16 Aug	5	5	0	B	NE	10	SE	10	15.3	15.1	11.6	11.1
17 Aug	4	4	A	A	calm	calm	calm	calm	15.5	15.3	10.8	13.9

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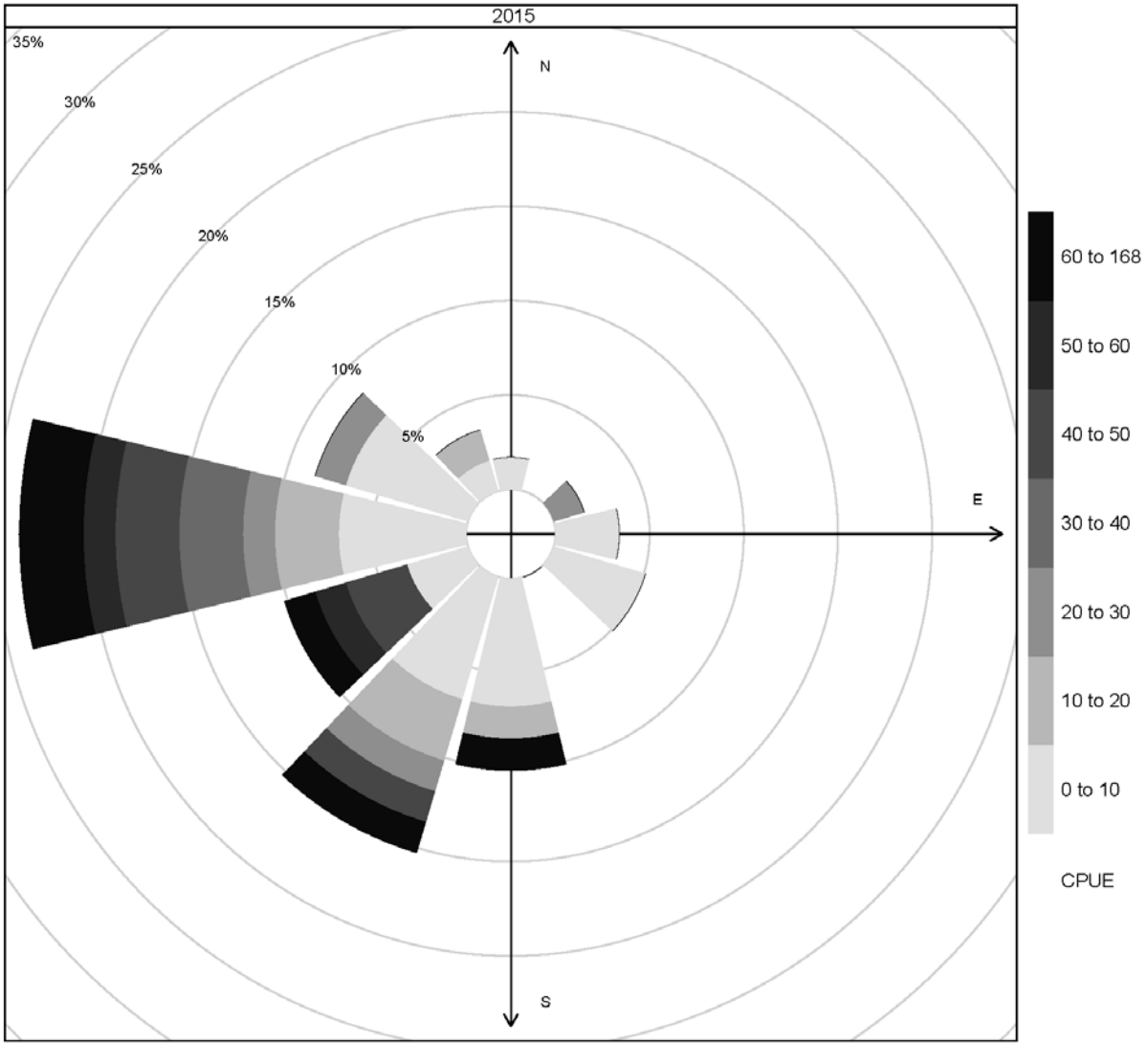
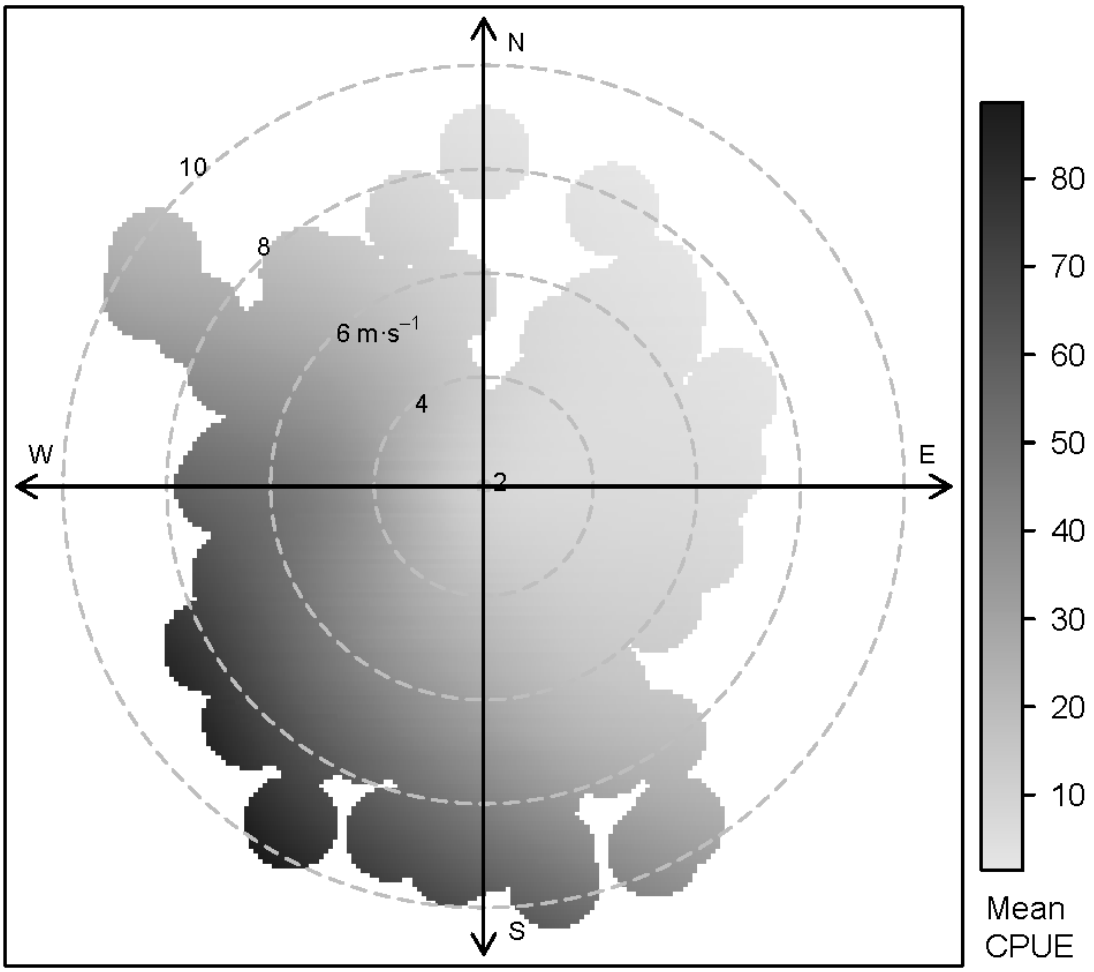
	Cloud Cover (code)[a]		Precipitation (code)[b]		Wind Direction & Velocity (mph)				Temperature (°C) Air		Temperature (°C) Water Surface	
Date	AM	PM	AM	PM	AM		PM		AM	PM	AM	PM
18 Aug	4	4	0	A	–	–	SW	10	15.1	15.4	9.2	10.8
19 Aug	5	4	A	0	SE	5	S	5	14.4	15	10.1	12
20 Aug	4	5	A	B	SE	8	SE	5	14.4	14.5	10.0	11.7
21 Aug	5	3	A	0	S	3	S	3	14.4	14.3	9.4	11.1
22 Aug	3	3	0	0	S	5	W	8	14.5	14.1	8.5	12.5
23 Aug	4	3	0	A	W	10	SW	10	14.3	15	9.1	10
24 Aug	5	4	B	A	SE	17.5	SE	30	14.3	14.2	8.9	9.1
25 Aug	4	4	B	A	SE	30	SE	25	14	15	9	10
26 Aug	4	4	A	0	SE	25	S	20	14	14	9	9
27 Aug	5	4	B	0	W	20	SW	20	13	14	8	8
28 Aug	3	4	0	A	calm	calm	W	5	13	12	8	8
				Minimum		3		3	13.3	12.3	7.7	8.2
				Mean		9		11	16.1	16.2	10.2	12.3
				Maximum		30		30	18.6	18.6	14.4	17.3

[a] Cloud cover code: 0 = No observation made. 1= Clear sky, cloud covering not more than 1/10 of sky. 2 = Cloud covering not more than 1/2 of sky. 3 = Cloud more than 1/2 of sky. 4 = Completely overcast. 5 = Fog

[b] Precipitation code: A = Intermittent rain. B = Continuous rain. C = Snow. D = Snow and rain mixed. E = Hail. F = Thunderstorms with or without precipitation. 0 = No precipitation.



Appendix B3.–Frequency of fall chum salmon catch per unit effort (CPUE) by Emmonak Airport wind direction, Yukon River, 2015.



Appendix B4.–Historical fall chum salmon mean catch per unit effort (CPUE) by Emmonak Airport wind direction and speed (meters/second [$m \cdot s^{-1}$]), Yukon River, 2001–2014.

APPENDIX C: HISTORICAL DAILY AND CUMULATIVE CPUE

Appendix C1.–Daily and cumulative catch and catch per unit effort (CPUE) of fall chum salmon in the Lower Yukon drift gillnet test fishery in 2015, compared to 2001–2014 historical median.

	2015			2001–2014 Median		
	Daily	Cumulative		Daily	Cumulative	
Date	CPUE	Prop.	CPUE	CPUE	Prop.	CPUE
16 Jul	0.0	0.00	0.0	16.4	0.01	16.4
17 Jul	14.6	0.01	14.6	17.4	0.03	45.3
18 Jul	54.2	0.05	68.8	4.7	0.06	74.7
19 Jul	29.0	0.08	97.9	5.3	0.07	75.6
20 Jul	7.4	0.08	105.2	4.0	0.08	97.3
21 Jul	1.5	0.08	106.7	4.1	0.09	118.5
22 Jul	4.5	0.09	111.2	3.8	0.09	149.8
23 Jul	0.0	0.09	111.2	5.5	0.10	163.2
24 Jul	13.2	0.10	124.4	5.5	0.12	171.1
25 Jul	3.7	0.10	128.1	8.2	0.12	172.2
26 Jul	1.5	0.10	129.6	4.0	0.13	190.2
27 Jul	8.7	0.11	138.3	7.0	0.15	239.1
28 Jul	43.0	0.14	181.3	24.3	0.17	279.1
29 Jul	38.6	0.17	219.9	17.9	0.22	334.0
30 Jul	49.7	0.21	269.5	6.6	0.23	380.4
31 Jul	0.8	0.21	270.3	12.4	0.25	399.4
1 Aug	46.5	0.25	316.8	31.4	0.32	424.4
2 Aug	100.8	0.33	417.5	13.1	0.37	435.9
3 Aug	20.9	0.35	438.4	11.0	0.41	518.0
4 Aug	16.4	0.36	454.9	1.5	0.43	551.0
5 Aug	3.0	0.36	457.8	6.5	0.45	609.4
6 Aug	4.0	0.37	461.8	6.3	0.46	625.4
7 Aug	8.2	0.37	470.0	16.7	0.47	644.7
8 Aug	5.1	0.38	475.1	20.6	0.49	649.2
9 Aug	2.2	0.38	477.3	18.8	0.51	652.5
10 Aug	82.9	0.44	560.2	10.0	0.56	705.4
11 Aug	102.9	0.53	663.1	1.9	0.56	714.2
12 Aug	40.4	0.56	703.5	14.4	0.60	792.7
13 Aug	59.0	0.60	762.5	17.7	0.63	808.4
14 Aug	21.7	0.62	784.1	15.6	0.66	839.9
15 Aug	8.1	0.63	792.2	10.4	0.68	988.1
16 Aug	2.2	0.63	794.5	12.8	0.75	1,034.0
17 Aug	0.0	0.63	794.5	12.8	0.77	1,087.7
18 Aug	3.0	0.63	797.5	9.0	0.82	1,117.3
19 Aug	148.8	0.75	946.3	37.0	0.89	1,140.6
20 Aug	46.5	0.79	992.8	15.6	0.90	1,145.9
21 Aug	5.1	0.79	997.9	5.1	0.93	1,149.7
22 Aug	37.0	0.82	1,034.9	12.3	0.93	1,166.2
23 Aug	17.9	0.83	1,052.8	8.6	0.96	1,201.5
24 Aug	2.9	0.84	1,055.7	8.4	0.97	1,220.1
25 Aug	168.0	0.97	1,223.7	7.5	0.98	1,223.1
26 Aug	9.1	0.98	1,232.8	8.1	0.98	1,225.0
27 Aug	22.5	0.99	1,255.3	7.0	1.00	1,226.9
28 Aug	6.5	1.00	1,261.8	5.9	1.00	1,230.4
Totals			1,261.8			1,230.4

Note: The boxes indicate the quarter points and midpoint (bold) of the cumulative CPUE through 28 August for comparison. The historical daily cumulative and midpoint was computed by assuming that 100% of the run as completed on the date of project termination unless otherwise noted.

Appendix C2.–Daily and cumulative catch and catch per unit effort (CPUE) of fall chum salmon in the Big Eddy drift gillnet test fishery (Sites 1 and 2 and includes Site 3 in 2009) in 2015, compared to 2001–2014 historical median.

	2015			2001–2014 Median		
	Daily	Cumulative		Daily	Cumulative	
Date	CPUE	Prop.	CPUE	CPUE	Prop.	CPUE
16 Jul	0.0	0.00	0.0	6.4	0.01	6.4
17 Jul	6.2	0.00	6.2	14.2	0.01	25.8
18 Jul	74.5	0.05	80.6	2.3	0.02	55.1
19 Jul	35.4	0.07	116.0	1.6	0.06	76.1
20 Jul	0.0	0.07	116.0	2.6	0.07	80.1
21 Jul	0.0	0.07	116.0	3.1	0.09	98.5
22 Jul	0.0	0.07	116.0	3.8	0.10	101.5
23 Jul	0.0	0.07	116.0	1.6	0.11	103.1
24 Jul	0.0	0.07	116.0	2.2	0.13	106.2
25 Jul	0.0	0.07	116.0	2.3	0.13	124.8
26 Jul	3.0	0.07	119.1	2.4	0.13	126.5
27 Jul	20.0	0.08	139.1	8.1	0.16	178.4
28 Jul	56.1	0.11	195.1	14.4	0.16	212.4
29 Jul	67.2	0.15	262.3	10.4	0.20	264.5
30 Jul	99.4	0.21	361.7	8.3	0.21	280.5
31 Jul	1.5	0.21	363.2	6.9	0.22	282.9
1 Aug	72.3	0.26	435.5	6.3	0.27	302.9
2 Aug	159.4	0.35	594.9	4.5	0.31	328.7
3 Aug	28.8	0.37	623.7	11.7	0.32	378.7
4 Aug	4.7	0.37	628.4	0.7	0.33	380.4
5 Aug	0.0	0.37	628.4	6.1	0.33	393.8
6 Aug	4.4	0.37	632.7	4.5	0.35	500.9
7 Aug	6.0	0.38	638.8	11.0	0.36	510.5
8 Aug	1.4	0.38	640.2	7.9	0.37	514.3
9 Aug	3.2	0.38	643.4	8.4	0.46	629.1
10 Aug	145.6	0.46	789.0	5.1	0.51	702.7
11 Aug	144.8	0.55	933.7	1.4	0.53	720.6
12 Aug	57.3	0.58	991.0	23.0	0.61	774.5
13 Aug	83.4	0.63	1,074.4	8.6	0.64	828.9
14 Aug	8.6	0.64	1,083.0	2.9	0.64	882.9
15 Aug	1.5	0.64	1,084.5	4.5	0.67	913.4
16 Aug	0.0	0.64	1,084.5	20.9	0.82	1,157.5
17 Aug	0.0	0.64	1,084.5	17.9	0.82	1,183.4
18 Aug	1.5	0.64	1,086.0	8.0	0.89	1,206.3
19 Aug	246.2	0.78	1,332.2	9.7	0.93	1,208.4
20 Aug	65.5	0.82	1,397.7	3.1	0.93	1,210.0
21 Aug	5.9	0.83	1,403.6	5.5	0.94	1,220.9
22 Aug	73.9	0.87	1,477.5	5.9	0.95	1,227.2
23 Aug	33.0	0.89	1,510.5	11.5	0.97	1,234.2
24 Aug	0.0	0.89	1,510.5	9.4	0.98	1,236.3
25 Aug	168.0	0.99	1,678.5	5.3	0.98	1,239.3
26 Aug	9.1	0.99	1,687.6	5.3	0.98	1,259.1
27 Aug	3.0	1.00	1,690.6	3.6	1.00	1,263.6
28 Aug	7.7	1.00	1,698.3	4.6	1.00	1,328.5
Totals			1,698.3			1,328.5

Note: The boxes indicate the quarter points and midpoint (bold) of the cumulative CPUE through 28 August for comparison. The historical daily cumulative and midpoint was computed by assuming that 100% of the run as completed on the date of project termination unless otherwise noted.

Appendix C3.–Daily and cumulative catch and catch per unit effort (CPUE) of fall chum salmon in the Middle Mouth drift gillnet test fishery (Sites 1 and 2) in 2015, compared to 2001–2014 historical median.

	2015			2001–2014 Median		
	Daily	Cumulative		Daily	Cumulative	
Date	CPUE	Prop.	CPUE	CPUE	Prop.	CPUE
16 Jul	0.0	0.00	0.0	9.3	0.01	9.3
17 Jul	23.1	0.04	23.1	10.7	0.04	19.4
18 Jul	33.9	0.09	57.0	5.3	0.05	53.4
19 Jul	22.6	0.12	79.7	9.8	0.05	57.4
20 Jul	14.7	0.14	94.4	6.3	0.06	68.6
21 Jul	3.0	0.15	97.3	4.6	0.07	81.8
22 Jul	9.0	0.16	106.4	2.3	0.10	90.2
23 Jul	0.0	0.16	106.4	5.5	0.13	117.0
24 Jul	26.4	0.20	132.8	5.9	0.16	139.4
25 Jul	7.4	0.21	140.1	6.9	0.17	145.8
26 Jul	0.0	0.21	140.1	3.2	0.19	147.9
27 Jul	3.0	0.22	143.1	5.4	0.19	206.1
28 Jul	23.4	0.25	166.5	2.3	0.25	234.2
29 Jul	10.0	0.27	176.5	6.2	0.29	270.4
30 Jul	0.0	0.27	176.5	3.1	0.31	283.7
31 Jul	0.0	0.27	176.5	7.2	0.32	284.4
1 Aug	7.7	0.28	184.3	12.2	0.32	292.2
2 Aug	42.1	0.34	226.3	6.2	0.33	327.9
3 Aug	13.1	0.36	239.4	3.0	0.37	341.9
4 Aug	28.2	0.41	267.6	2.8	0.40	344.3
5 Aug	5.9	0.41	273.5	3.7	0.47	380.8
6 Aug	3.1	0.42	276.6	6.8	0.49	391.1
7 Aug	10.4	0.44	287.0	15.6	0.52	415.6
8 Aug	8.8	0.45	295.8	13.7	0.58	424.0
9 Aug	1.5	0.45	297.3	11.9	0.58	458.5
10 Aug	20.1	0.48	317.4	2.2	0.58	492.1
11 Aug	40.1	0.54	357.5	2.3	0.58	502.4
12 Aug	23.5	0.58	381.1	8.8	0.59	515.7
13 Aug	34.5	0.63	415.6	9.0	0.61	522.7
14 Aug	34.8	0.68	450.4	13.8	0.61	526.5
15 Aug	14.7	0.71	465.1	4.8	0.62	532.1
16 Aug	4.5	0.71	469.6	7.6	0.73	572.0
17 Aug	0.0	0.71	469.6	7.1	0.78	580.3
18 Aug	4.5	0.72	474.1	8.2	0.80	604.9
19 Aug	51.4	0.80	525.6	31.4	0.87	628.9
20 Aug	17.9	0.82	543.4	17.7	0.88	774.1
21 Aug	4.4	0.83	547.8	6.1	0.91	800.7
22 Aug	0.0	0.83	547.8	9.1	0.92	800.7
23 Aug	2.9	0.84	550.7	7.1	0.94	915.9
24 Aug	5.7	0.84	556.5	4.4	0.94	956.2
25 Aug	0.0	0.84	556.5	5.0	0.97	980.7
26 Aug	0.0	0.84	556.5	7.4	0.98	1,000.7
27 Aug	42.0	0.91	598.5	8.1	1.00	1,040.7
28 Aug	5.4	0.92	603.8	4.5	1.00	1,042.0
Total			603.8			1,042.0

Note: The boxes indicate the quarter points and midpoint (bold) of the cumulative CPUE through 28 August for comparison. The historical daily cumulative and midpoint was computed by assuming that 100% of the run as completed on the date of project termination unless otherwise noted.

Appendix C4.–Daily and cumulative catch and catch per unit effort (CPUE) of coho salmon in the Lower Yukon drift gillnet test fishery in 2015, compared to 2001–2014 historical median.

	2015			2001–2014 Median		
	Daily	Cumulative		Daily	Cumulative	
Date	CPUE	Prop.	CPUE	CPUE	Prop.	CPUE
16 Jul	0.0	0.00	0.0	0.0	0.00	0.0
17 Jul	0.0	0.00	0.0	0.0	0.00	0.0
18 Jul	0.0	0.00	0.0	0.0	0.00	0.0
19 Jul	0.7	0.00	0.7	0.0	0.00	0.0
20 Jul	0.0	0.00	0.7	0.0	0.00	0.0
21 Jul	0.0	0.00	0.7	0.0	0.00	0.0
22 Jul	0.0	0.00	0.7	0.0	0.00	0.0
23 Jul	0.0	0.00	0.7	0.0	0.00	0.0
24 Jul	0.0	0.00	0.7	0.0	0.00	0.0
25 Jul	0.7	0.00	1.5	0.0	0.00	0.0
26 Jul	0.0	0.00	1.5	0.0	0.00	0.7
27 Jul	0.0	0.00	1.5	0.0	0.00	0.7
28 Jul	0.9	0.01	2.3	0.9	0.01	2.8
29 Jul	0.8	0.01	3.1	1.0	0.01	3.8
30 Jul	0.0	0.01	3.1	1.5	0.02	5.5
31 Jul	0.0	0.01	3.1	1.2	0.02	8.6
1 Aug	8.5	0.03	11.6	2.0	0.03	10.2
2 Aug	12.0	0.06	23.6	1.4	0.04	13.4
3 Aug	10.5	0.08	34.0	1.9	0.05	18.0
4 Aug	0.8	0.08	34.8	1.1	0.06	18.8
5 Aug	0.0	0.08	34.8	4.4	0.07	23.4
6 Aug	2.9	0.09	37.7	2.9	0.09	29.1
7 Aug	0.8	0.09	38.5	3.2	0.09	32.9
8 Aug	3.6	0.10	42.1	4.9	0.13	39.3
9 Aug	5.9	0.11	48.0	5.4	0.16	52.6
10 Aug	43.5	0.22	91.5	3.5	0.18	61.0
11 Aug	41.8	0.32	133.3	6.5	0.21	66.7
12 Aug	24.8	0.38	158.1	9.6	0.27	93.6
13 Aug	22.8	0.43	180.9	14.0	0.29	113.5
14 Aug	5.8	0.45	186.7	13.8	0.35	119.2
15 Aug	1.5	0.45	188.2	5.5	0.38	129.6
16 Aug	2.2	0.45	190.4	11.8	0.48	161.7
17 Aug	2.2	0.46	192.6	12.0	0.57	177.7
18 Aug	14.8	0.50	207.4	10.1	0.61	191.0
19 Aug	32.9	0.57	240.3	20.2	0.74	213.8
20 Aug	31.8	0.65	272.1	15.8	0.81	270.2
21 Aug	14.7	0.69	286.8	8.2	0.84	277.3
22 Aug	12.2	0.71	299.0	12.9	0.85	292.6
23 Aug	27.0	0.78	325.9	6.8	0.91	308.5
24 Aug	13.3	0.81	339.2	6.5	0.93	315.0
25 Aug	44.1	0.92	383.4	6.0	0.95	328.4
26 Aug	6.3	0.93	389.7	4.4	0.96	332.2
27 Aug	15.0	0.97	404.7	4.7	0.99	336.6
28 Aug	13.8	1.00	418.5	4.5	1.00	341.9
Total			418.5			341.9

Note: The boxes indicate the quarter points and midpoint (bold) of the cumulative CPUE through 28 August for comparison. The historical daily cumulative and midpoint was computed by assuming that 100% of the run as completed on the date of project termination unless otherwise noted.

Appendix C5.–Daily and cumulative catch and catch per unit effort (CPUE) of coho salmon in the Big Eddy drift gillnet test fishery (Sites 1 and 2 and includes Site 3 in 2009) in 2015, compared to 2001–2014 historical median.

	2015			2001–2014 Median		
	Daily	Cumulative		Daily	Cumulative	
Date	CPUE	Prop.	CPUE	CPUE	Prop.	CPUE
16 Jul	0.0	0.00	0.0	0.0	0.00	0.0
17 Jul	0.0	0.00	0.0	0.0	0.00	0.0
18 Jul	0.0	0.00	0.0	0.0	0.00	0.0
19 Jul	1.5	0.00	1.5	0.0	0.00	0.0
20 Jul	0.0	0.00	1.5	0.0	0.00	0.0
21 Jul	0.0	0.00	1.5	0.0	0.00	0.0
22 Jul	0.0	0.00	1.5	0.0	0.00	0.0
23 Jul	0.0	0.00	1.5	0.0	0.00	0.0
24 Jul	0.0	0.00	1.5	0.0	0.00	0.0
25 Jul	0.0	0.00	1.5	0.0	0.00	0.0
26 Jul	0.0	0.00	1.5	0.0	0.00	1.4
27 Jul	0.0	0.00	1.5	0.0	0.01	1.4
28 Jul	1.4	0.01	2.9	0.7	0.01	2.9
29 Jul	1.6	0.01	4.5	0.0	0.02	4.5
30 Jul	0.0	0.01	4.5	1.7	0.03	8.1
31 Jul	0.0	0.01	4.5	0.8	0.04	13.1
1 Aug	13.1	0.03	17.5	1.6	0.04	16.1
2 Aug	18.3	0.06	35.8	2.2	0.06	19.2
3 Aug	12.2	0.08	48.0	2.3	0.09	22.4
4 Aug	0.0	0.08	48.0	0.0	0.09	25.5
5 Aug	0.0	0.08	48.0	5.4	0.10	33.1
6 Aug	4.4	0.09	52.4	2.3	0.13	37.9
7 Aug	1.5	0.10	53.9	1.6	0.15	46.0
8 Aug	2.9	0.10	56.7	7.4	0.15	53.5
9 Aug	0.0	0.10	56.7	2.2	0.17	55.8
10 Aug	60.8	0.21	117.5	2.3	0.21	62.5
11 Aug	62.4	0.32	179.9	3.7	0.27	65.3
12 Aug	34.8	0.38	214.7	13.2	0.30	95.0
13 Aug	40.1	0.45	254.8	6.2	0.35	115.8
14 Aug	3.0	0.46	257.8	5.9	0.38	134.4
15 Aug	0.0	0.46	257.8	7.7	0.43	157.5
16 Aug	0.0	0.46	257.8	11.6	0.52	181.1
17 Aug	4.5	0.46	262.3	15.6	0.63	202.8
18 Aug	28.0	0.51	290.3	9.7	0.68	221.0
19 Aug	55.7	0.61	346.0	14.6	0.80	234.3
20 Aug	36.1	0.67	382.1	3.7	0.83	253.9
21 Aug	7.4	0.69	389.4	4.1	0.84	260.1
22 Aug	22.9	0.73	412.3	8.8	0.86	265.3
23 Aug	51.0	0.82	463.3	3.1	0.90	267.6
24 Aug	20.8	0.85	484.1	8.3	0.93	271.4
25 Aug	44.1	0.93	528.2	3.0	0.95	274.8
26 Aug	6.3	0.94	534.5	3.9	0.97	283.0
27 Aug	15.0	0.97	549.5	2.3	0.99	293.7
28 Aug	16.8	1.00	566.3	5.2	1.00	295.2
Total			566.3			295.2

Note: The boxes indicate the quarter points and midpoint (bold) of the cumulative CPUE through 28 August for comparison. The historical daily cumulative and midpoint was computed by assuming that 100% of the run as completed on the date of project termination unless otherwise noted.

Appendix C6.–Daily and cumulative catch and catch per unit effort (CPUE) of coho salmon in the Middle Mouth drift gillnet test fishery (Sites 1 and 2) in 2015, compared to 2001–2014 historical median.

	2015			2001–2014 Median		
	Daily	Cumulative		Daily	Cumulative	
Date	CPUE	Prop.	CPUE	CPUE	Prop.	CPUE
16 Jul	0.00	0.00	0.00	0.00	0.00	0.00
17 Jul	0.00	0.00	0.00	0.00	0.00	0.00
18 Jul	0.00	0.00	0.00	0.00	0.00	0.00
19 Jul	0.00	0.00	0.00	0.00	0.00	0.00
20 Jul	0.00	0.00	0.00	0.00	0.00	0.00
21 Jul	0.00	0.00	0.00	0.00	0.00	0.00
22 Jul	0.0	0.00	0.0	0.0	0.00	0.0
23 Jul	0.0	0.00	0.0	0.0	0.00	0.0
24 Jul	0.0	0.00	0.0	0.0	0.00	0.0
25 Jul	1.5	0.01	1.5	0.0	0.00	0.0
26 Jul	0.0	0.01	1.5	0.0	0.00	0.0
27 Jul	0.0	0.01	1.5	0.0	0.00	0.0
28 Jul	0.0	0.01	1.5	0.0	0.00	0.7
29 Jul	0.0	0.01	1.5	0.5	0.00	1.6
30 Jul	0.0	0.01	1.5	0.0	0.01	2.4
31 Jul	0.0	0.01	1.5	0.0	0.01	3.8
1 Aug	1.5	0.01	3.0	0.0	0.02	4.3
2 Aug	5.7	0.04	8.7	0.0	0.02	6.1
3 Aug	8.8	0.09	17.5	0.7	0.03	9.7
4 Aug	1.5	0.09	19.0	0.0	0.03	9.7
5 Aug	0.0	0.09	19.0	1.6	0.04	16.1
6 Aug	0.0	0.09	19.0	0.7	0.07	18.6
7 Aug	0.0	0.09	19.0	1.5	0.09	22.7
8 Aug	4.4	0.12	23.4	4.6	0.14	36.9
9 Aug	10.4	0.17	33.7	3.9	0.18	49.2
10 Aug	26.3	0.30	60.0	1.6	0.18	61.5
11 Aug	10.8	0.35	70.8	2.4	0.20	66.9
12 Aug	14.8	0.42	85.6	6.8	0.23	76.3
13 Aug	5.5	0.45	91.1	7.2	0.26	95.1
14 Aug	8.6	0.49	99.8	6.5	0.30	125.1
15 Aug	3.0	0.51	102.7	3.2	0.31	128.9
16 Aug	4.4	0.53	107.2	6.2	0.35	146.7
17 Aug	0.0	0.53	107.2	11.4	0.48	189.2
18 Aug	1.5	0.54	108.7	11.3	0.50	202.2
19 Aug	10.0	0.59	118.7	19.7	0.66	216.0
20 Aug	25.4	0.71	144.1	18.6	0.82	277.8
21 Aug	22.0	0.82	166.1	9.1	0.84	321.4
22 Aug	1.5	0.83	167.6	16.0	0.87	335.3
23 Aug	2.9	0.84	170.6	6.4	0.90	339.8
24 Aug	5.9	0.87	176.4	4.3	0.91	342.1
25 Aug	–	0.87	176.4	5.4	0.92	353.1
26 Aug	–	0.87	176.4	3.9	0.94	358.4
27 Aug	15.0	0.95	191.4	3.9	0.97	360.0
28 Aug	10.8	1.00	202.2	4.5	1.00	378.1
Total			202.2			378.1

Note: The boxes indicate the quarter points and midpoint (bold) of the cumulative CPUE through 28 August for comparison. The historical daily cumulative and midpoint was computed by assuming that 100% of the run as completed on the date of project termination unless otherwise noted.

APPENDIX D: FISHING SITES AND CATCH DATA

Appendix D1.–Mean fishing times from Big Eddy drift gillnet Sites 1 and 2 and fall chum and coho salmon catches, Yukon River, 2015.

	Big Eddy Drift Gillnet Sites															
	Site 1							Site 2								
	Morning Drifts (AM)				Evening Drifts (PM)				Morning Drifts (AM)				Evening Drifts (PM)			
		Salmon Catch				Salmon Catch				Salmon Catch				Salmon Catch		
Date	Fishing Time (min)	Fall Chum	Coho		Fishing Time (min)	Fall Chum	Coho		Fishing Time (min)	Fall Chum	Coho		Fishing Time (min)	Fall Chum	Coho	
16 Jul	21.0	0	0		19.5	0	0		20.5	0	0		20.5	0	0	
17 Jul	19.5	0	0		19.5	1	0		19.5	2	0		19.5	1	0	
18 Jul	19.5	19	0		18.5	25	0		19.5	1	0		19.0	2	0	
19 Jul	18.5	1	0		20.0	4	0		20.5	19	1		20.0	0	0	
20 Jul	18.0	0	0		–	–	–	[a]	19.5	0	0	[a]	–	–	–	[a]
21 Jul	19.5	0	0		18.0	0	0		21.0	0	0		19.5	0	0	
22 Jul	20.0	0	0		20.0	0	0		14.0	0	0		20.0	0	0	
23 Jul	20.0	0	0		–	–	–	[a]	20.0	0	0	[a]	–	–	–	[a]
24 Jul	20.0	0	0		20.5	0	0		20.0	0	0		20.0	0	0	
25 Jul	20.0	0	0		20.0	0	0		21.0	0	0		20.0	0	0	
26 Jul	19.5	0	0		19.5	0	0		20.0	1	0		19.5	1	0	
27 Jul	21.0	2	0		–	–	–	[a]	21.0	5	0	[a]	–	–	–	[a]
28 Jul	16.5	18	1	[b]	20.5	3	0		18.3	25	0	[b]	20.0	0	0	
29 Jul	19.0	7	1		79.5	14	0		18.0	27	0		20.5	4	0	
30 Jul	20.5	14	0		–	–	–	[a]	18.5	18	0		–	–	–	[a]
31 Jul	20.5	0	0		19.5	0	0		20.0	1	0		20.0	0	0	
1 Aug	20.0	4	0		18.0	13	1	[b]	22.0	8	6		20.8	51	7	[b]
2 Aug	17.5	8	3		–	–	–	[a]	15.0	33	2		–	–	–	[a]
3 Aug	19.5	7	4		19.5	0	0		20.0	10	4		20.0	2	0	
4 Aug	19.5	0	0		20.0	0	0		19.0	2	0		20.0	1	0	
5 Aug	20.0	0	0		20.0	0	0		19.5	0	0		20.0	0	0	
6 Aug	20.0	0	0		19.5	0	0	[b]	19.5	0	0		20.5	3	3	[a,b]
7 Aug	19.5	1	0		20.0	1	0		20.0	2	0		20.0	0	1	
8 Aug	19.5	0	0		19.5	0	0		19.5	0	0		21.0	1	2	
9 Aug	18.0	0	0		12.5	1	0		20.5	0	0		–	–	–	[c]
10 Aug	20.5	6	3		–	–	–	[a]	15.0	32	13		–	–	–	[a]
11 Aug	21.0	20	1		19.5	43	16	[b]	23.0	35	14		8.8	18	8	[b]
12 Aug	20.0	6	3		20.0	4	0		18.5	16	1		22.0	12	21	
13 Aug	19.0	7	3		–	–	–	[a]	23.5	24	12		–	–	–	[a]
14 Aug	20.5	0	0		19.0	0	1		21.0	6	1		18.5	0	0	
15 Aug	20.5	1	0		20.0	0	0		19.5	0	0		20.0	0	0	

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	Big Eddy Drift Gillnet Sites																	
	Site 1								Site 2									
	Morning Drifts (AM)				Evening Drifts (PM)				Morning Drifts (AM)				Evening Drifts (PM)					
		Salmon Catch				Salmon Catch				Salmon Catch				Salmon Catch				
Date	Fishing Time (min)	Fall Chum	Coho		Fishing Time (min)	Fall Chum	Coho		Fishing Time (min)	Fall Chum	Coho		Fishing Time (min)	Fall Chum	Coho			
16 Aug	20.0	0	0		20.0	0	0		19.5	0	0		19.5	0	0			
17 Aug	20.0	0	0		20.0	0	0		20.5	0	2		19.5	0	1			
18 Aug	19.0	0	0		20.0	1	1		19.5	0	0		21.5	0	19			
19 Aug	21.5	32	11		11.5	36	6		17.0	31	6		17.0	30	8			
20 Aug	18.5	5	9		19.8	18	7	[b]	22.0	14	11		21.0	30	10	[b]		
21 Aug	20.0	0	1		19.5	0	0		20.5	4	4		20.0	0	0			
22 Aug	20.0	1	0		20.5	6	5		21.5	20	2		23.5	28	10			
23 Aug	21.0	4	6		–	–	–	[a]	19.5	7	11		–	–	–	[a]		
24 Aug	20.0	0	4		–	–	–	[c]	20.5	0	3		–	–	–	[c]		
25 Aug	–	–	–	[c,d]	19.8	37	11		–	–	–	[c,d]	20.3	76	18			
26 Aug	12.0	0	1		12.5	1	0		13.5	2	1		–	–	–	[c]		
27 Aug	19.0	0	0		–	–	–	[a]	20.0	1	5		–	–	–	[a]		
28 Aug	19.0	1	0		19.5	3	4		20.0	1	3		19.5	0	4			
29 Aug	19.5	3	3		–	–	–	[c]	19.5	1	0		–	–	–	[c]		
30 Aug	17.5	1	0		–	–	–	[a]	19.5	0	1		–	–	–	[a]		
31 Aug	19.5	4	1		19.5	4	1		19.5	2	1		15.0	3	0			
1 Sep	–	–	–	[c]	19.5	1	5		–	–	–	[c]	19.5	1	2			
2 Sep	19.5	0	0		–	–	–	[a]	19.5	0	0		–	–	–	[a]		
3 Sep	19.5	1	0		19.5	2	4		19.5	2	2		19.5	0	9			
4 Sep	19.5	4	0		–	–	–	[a]	19.5	1	2		–	–	–	[a]		
5 Sep	–	–	–	[e]	19.5	1	1		–	–	–	[e]	19.5	0	2			
6 Sep	19.5	1	0		19.5	0	0		19.5	0	1		19.5	0	2			
7 Sep	19.5	1	0		19.5	0	3		19.5	0	0		19.5	0	1			
8 Sep	19.5	2	2		19.5	5	7		19.5	0	2		19.5	2	1			
9 Sep	19.5	5	3		19.5	3	8		19.5	2	6		20.0	3	3			
10 Sep	19.5	1	4		19.5	1	3		19.5	0	3		19.5	0	2			
11 Sep	–	–	–	[c]	–	–	–	[c]	–	–	–	[c]	–	–	–	[c]		

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	Big Eddy Drift Gillnet Sites														
	Site 1							Site 2							
	Morning Drifts (AM)				Evening Drifts (PM)			Morning Drifts (AM)				Evening Drifts (PM)			
		Salmon Catch				Salmon Catch			Salmon Catch				Salmon Catch		
Date	Fishing Time (min)	Fall Chum	Coho		Fishing Time (min)	Fall Chum	Coho		Fishing Time (min)	Fall Chum	Coho		Fishing Time (min)	Fall Chum	Coho	
12 Sep	19.5	1	2		19.5	0.0	4.0		19.5	2	0		19.5	0	0	
13 Sep	–	–	–	c	19.5	0	0		19.5	0	1		19.5	0	0	
14 Sep	19.5	0	0		19.5	0	0		19.5	0	0		19.5	0	0	
15 Sep	19.5	0	0		19.5	0	0		19.5	0	0		19.5	0	0	
16 Sep	19.5	0	0		19.5	0	0		19.5	0	0		19.5	0	0	
17 Sep	19.5	0	0		–	–	–	c	19.5	0	0		–	–	–	c
18 Sep	19.5	0	0		–	–	–	c	19.5	0	0		–	–	–	c
19 Sep	19.5	0	0		19.5	0.0	0.0		19.5	0	0		19.5	0.0	0.0	
20 Sep	19.5	0	0		–	–	–	f	19.5	0	0		–	–	–	f
Drift Average	19.5				20.4				19.5				19.6			
St. Dev.	1.3				8.7				1.7				2.0			
Total Catch		188	66			228	88			357	121			269	134	

Note: In 2015, ADF&G ceased operation of project on 28 August. Kwik'pak Fisheries and YDFDA personnel assumed LYTF operations through 20 September.

[a] Drift cancelled due to commercial period.

[b] Includes supplemental drift.

[c] Drift cancelled due to hazardous weather.

[d] Includes 1 afternoon drift and 1 scheduled evening drift.

[e] Drift cancelled for undocumented reason.

[f] Morning drifts only, last day of operation.

Appendix D2.–Mean fishing time from Middle Mouth drift gillnet Sites 1 and 2 and fall chum and coho salmon catches, Yukon River, 2015.

	Middle Mouth Drift Gillnet Sites												
	Site 1							Site 2					
	Morning Drifts (AM)			Evening Drifts (PM)				Morning Drifts (AM)			Evening Drifts (PM)		
		Salmon Catch			Salmon Catch				Salmon Catch			Salmon Catch	
Date	Fishing Time (min)	Fall Chum	Coho	Fishing Time (min)	Fall Chum	Coho		Fishing Time (min)	Fall Chum	Coho	Fishing Time (min)	Fall Chum	Coho	
16 Jul	19.5	0	0	21.0	0	0		20.5	0	0	20.5	0	0	
17 Jul	20.5	0	0	21.0	2	0		20.5	7	0	21.0	7	0	
18 Jul	20.0	0	0	20.5	5	0		18.5	9	0	20.0	8	0	
19 Jul	20.0	2	0	20.0	0	0		21.5	13	0	20.0	1	0	
20 Jul	20.0	1	0	–	–	–	[a]	20.5	4	0	–	–	–	[a]
21 Jul	20.5	0	0	20.0	0	0		20.5	1	0	20.0	1	0	
22 Jul	20.5	0	0	20.0	0	0		20.0	5	0	19.5	1	0	
23 Jul	20.5	0	0	–	–	–	[a]	20.0	0	0	–	–	–	[a]
24 Jul	20.0	0	0	20.0	2	0		20.5	8	0	20.5	8	0	
25 Jul	20.5	0	0	20.0	1	0		20.5	4	1	19.5	0	0	
26 Jul	20.5	0	0	20.5	0	0		20.0	0	0	20.5	0	0	
27 Jul	21.0	0	0	20.5	0	0		20.5	0	0	20.0	2	0	
28 Jul	20.0	3	0	20.0	2	0		20.5	8	0	21.5	3	0	
29 Jul	22.5	1	0	19.5	1	0		21.5	3	0	20.5	2	0	
30 Jul	20.5	0	0	–	–	–	[a]	20.5	0	0	–	–	–	[a]
31 Jul	19.0	0	0	21.0	0	0		21.5	0	0	21.0	0	0	
1 Aug	22.5	2	0	28.0	2	0		21.5	1	0	19.5	1	1	
2 Aug	22.5	4	0	–	–	–	[a]	21.0	11	2	–	–	–	[a]
3 Aug	22.5	0	0	20.5	3	5		22.0	1	0	20.5	5	1	
4 Aug	22.5	3	0	21.0	4	0		23.0	13	0	20.0	1	1	
5 Aug	20.0	0	0	20.0	0	0		20.5	2	0	20.0	2	0	
6 Aug	19.5	0	0	–	–	–	[a]	19.5	1	0	–	–	–	[a]
7 Aug	19.5	0	0	20.0	1	0		19.5	2	0	20.5	4	0	
8 Aug	20.0	0	0	20.0	1	0		20.5	1	3	20.5	4	0	
9 Aug	20.0	0	1	20.5	1	2		21.0	0	1	20.0	0	3	
10 Aug	20.0	1	4	–	–	–	[a]	21.0	6	5	–	–	–	[a]
11 Aug	20.0	3	0	20.5	3	1		20.5	4	0	22.5	19	7	
12 Aug	20.0	4	0	19.0	1	2		20.5	7	5	21.0	4	3	
13 Aug	20.5	2	1	–	–	–	[a]	23.0	11	1	–	–	–	[a]
14 Aug	20.0	0	0	20.5	8	2		20.5	6	0	21.0	10	4	

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	Middle Mouth Drift Gillnet Sites																	
	Site 1									Site 2								
	Morning Drifts (AM)				Evening Drifts (PM)					Morning Drifts (AM)				Evening Drifts (PM)				
		Salmon Catch				Salmon Catch					Salmon Catch				Salmon Catch			
Date	Fishing Time (min)	Fall Chum	Coho		Fishing Time (min)	Fall Chum	Coho			Fishing Time (min)	Fall Chum	Coho		Fishing Time (min)	Fall Chum	Coho		
15 Aug	20.5	1	0		20.5	0	0			20.0	3	1		20.5	6	1		
16 Aug	19.0	0	0		20.0	0	0			20.5	1	2		20.0	2	1		
17 Aug	20.0	0	0		19.5	0	0			19.5	0	0		20.0	0	0		
18 Aug	21.0	0	0		20.0	0	0			19.5	2	1		20.5	1	0		
19 Aug	21.0	2	0		21.0	5	1			21.0	12	1		21.0	17	5		
20 Aug	21.0	1	0		20.0	2	5			20.5	2	2		20.0	7	10		
21 Aug	20.5	0	3		19.0	0	1			21.0	2	8		19.5	1	3		
22 Aug	20.5	0	0		20.5	0	0			21.0	0	0		20.0	0	1		
23 Aug	20.5	0	0		–	–	–		[a]	20.5	1	1		–	–	–		[a]
24 Aug	21.5	1	0		–	–	–		[a]	20.5	1	2		–	–	–		[a]
25 Aug	–	–	–	[b]	–	–	–		[b]	–	–	–	[b]	–	–	–		[b]
26 Aug	–	–	–	[b]	–	–	–		[b]	–	–	–	[b]	–	–	–		[b]
27 Aug	20.0	1	0		–	–	–		[a]	20.0	13	5		–	–	–		[a]
28 Aug	19.5	0	0		22.0	1	4			20.0	0	0		22.5	3	4		
29 Aug	19.5	2	2		–	–	–		[b]	19.5	2	0		–	–	–		[b]
30 Aug	–	–	–	[b]	–	–	–		[b]	–	–	–	[b]	–	–	–		[b]
31 Aug	19.5	0	0		19.5	0	0			19.5	4	1		19.5	6	1		
1 Sep	–	–	–	[b]	19.5	0	0			–	–	–	[b]	19.5	2	3		
2 Sep	19.5	1	0		–	–	–		[a]	19.5	0	0		–	–	–		[a]
3 Sep	19.5	0	0		19.5	0	1			19.5	0	1		19.5	2	0		
4 Sep	19.5	1	1		–	–	–		[a]	19.5	0	0		–	–	–		[a]
5 Sep	–	–	–	[c]	19.5	0	0			–	–	–	[c]	19.5	0	1		
6 Sep	19.5	0	0		19.5	0	0			19.5	0	0		19.5	0	2		
7 Sep	19.5	0	0		19.5	0	0			19.5	1	0		19.5	0	0		
8 Sep	19.5	0	0		–	–	–		[b]	19.5	0	0		–	–	–		[b]
9 Sep	19.5	1	0		19.5	1	0			19.5	3	2		19.5	1	4		
10 Sep	–	–	–		–	–	–		[b]	–	–	–		–	–	–		[b]
11 Sep	–	–	–		–	–	–		[b]	–	–	–		–	–	–		[b]

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	Middle Mouth Drift Gillnet Sites											
	Site 1						Site 2					
	Morning Drifts (AM)			Evening Drifts (PM)			Morning Drifts (AM)			Evening Drifts (PM)		
		Salmon Catch			Salmon Catch			Salmon Catch			Salmon Catch	
Date	Fishing Time (min)	Fall Chum	Coho	Fishing Time (min)	Fall Chum	Coho	Fishing Time (min)	Fall Chum	Coho	Fishing Time (min)	Fall Chum	Coho
12 Sep	19.5	0	0	–	–	– [b]	19.5	0	1	–	–	–
13 Sep	19.5	0	0	19.5	0	0	19.5	0	1	19.5	0	0
14 Sep	19.5	0	0	19.5	0	0	19.5	0	0	19.5	0	0
15 Sep	19.5	0	0	19.5	0	0	19.5	1	0	19.5	0	0
16 Sep	19.5	0	0	19.5	0	0	19.5	0	0	19.5	0	0
17 Sep	19.5	0	0	–	–	– [b]	19.5	0	0	–	–	–
18 Sep	19.5	0	0	–	–	– [b]	19.5	0	0	–	–	–
19 Sep	19.5	0	0	19.5	0	0	20.0	0	0	19.5	0	0
20 Sep	19.5	0	0	–	–	– [d]	19.5	0	0	–	–	–
Drift Average	20.2			20.2			20.3			20.2		
SD	0.9			1.3			0.9			0.7		
Total Catch		37	12		46	24		176	47		131	56

Note: In 2015, ADF&G ceased operation of project on 28 August. Kwik'pak Fisheries and YDFDA personnel assumed LYTF operations through 20 September.

[a] Drift cancelled due to commercial period.

[b] Drift cancelled due to hazardous weather.

[c] Drift cancelled for undocumented reason.

[d] Morning drifts only, last day of operation.

Appendix D3.–Species captured, retained, and released during the fall season in the Lower Yukon drift gillnet test fishery, Yukon River, 2015.

	Big Eddy		Middle Mouth		Total	
Species	Fall Chum	Coho	Fall Chum	Coho	Fall Chum	Coho
Fish released unharmed	15	8	27	1	0	0
Test fish sales	–	–	–	–	50	8
Fish discarded	0	0	0	0	0	0
Donated to Subsistence	1,027	401	363	138	1,390	539
Total catch					1,440	547

Note: Data through 20 September 2015.