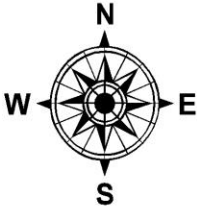


2016 Lynn Canal (District 15) Commercial Drift Gillnet Fishery Season Summary











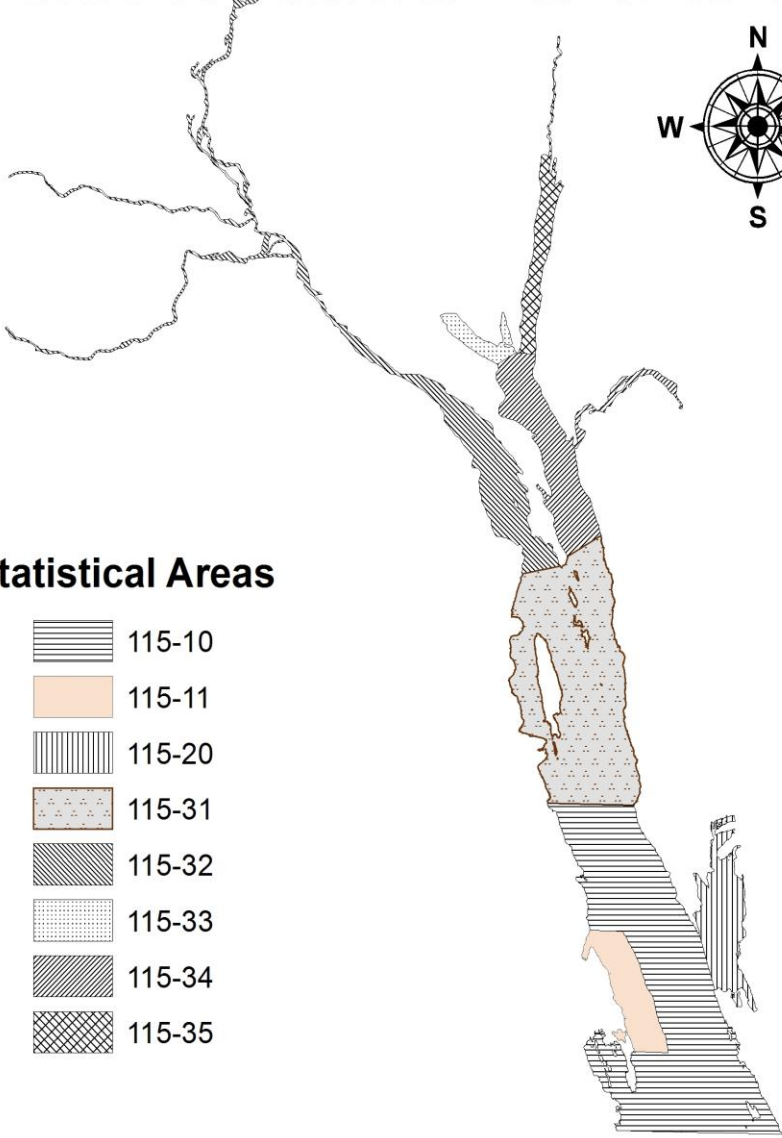
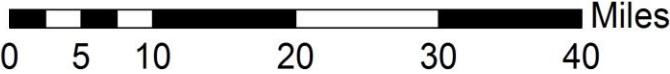
Mark Sogge
Area Management Biologist
2016 Drift Gillnet Task Force Meeting
November 29, 2016
Juneau, Alaska

Lynn Canal District, Sections and Statistical Area Boundaries



Statistical Areas

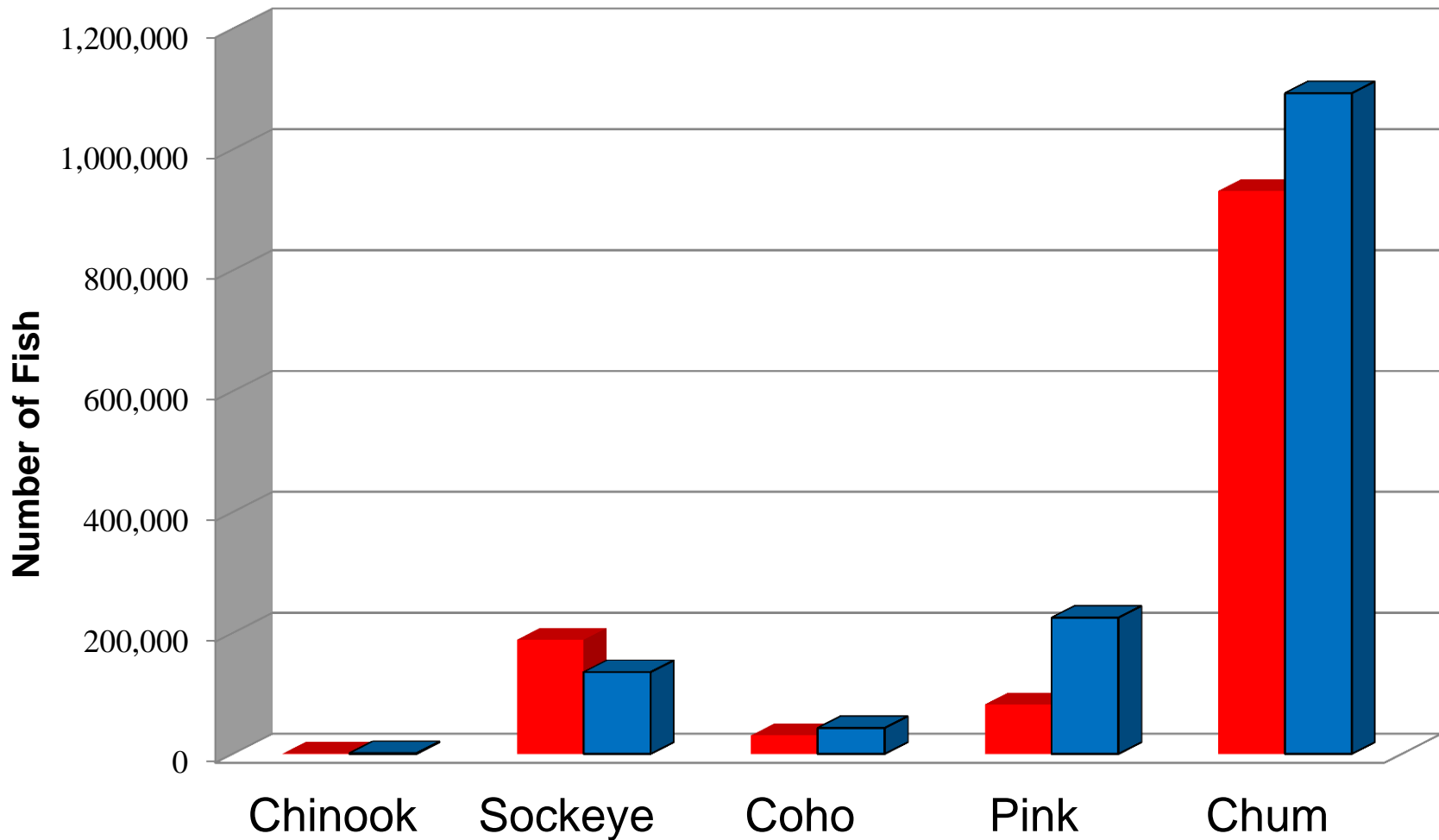
-  115-10
-  115-11
-  115-20
-  115-31
-  115-32
-  115-33
-  115-34
-  115-35



2016 District 15 Commercial Drift Gillnet Effort and Harvest

	Stat. Week	Days Open	Boats	Boat Days	Chinook	Sockeye	Coho	Pink	Chum
Summer Management	25			Not Open					
	26	2	119	238	84	1,896	19	3	25,660
	27	2(1)	123	369	110	2,514	38	116	81,474
	28	2(2)	155	620	103	8,361	174	1,557	276,212
	29	2(2)	161	644	71	15,335	174	8,192	291,660
	30	2(1)	121	363	36	32,443	58	15,631	138,623
	31	2(1)	99	297	21	9,941	44	7,047	54,732
	32	1	77	77	3	21,154	43	6,155	24,687
	33	4	76	304	14	58,180	234	31,401	7,214
Fall Management	34	4	70	280	13	22,461	288	9,617	2,941
	35	3	75	225	19	13,721	2,613	2,217	5,661
	36	3	44	132	1	1,704	2,675	32	2,977
	37	2	53	106	0	1,008	7,400	1	6,089
	38	2(2)	61	244	0	116	13,736	1	10,783
	39	2	42	84	0	5	1,368	0	903
	40	3	37	111	0	5	1,670	0	2,303
	41			Not Open					
Fishery Total:		45	201	4,262	475	188,844	30,534	81,970	931,919
2006-2015 Average:		56	195	4,796	1,060	135,353	42,861	225,434	1,093,311
2016 % of Average:		80%	103%	89%	45%	140%	71%	36%	85%

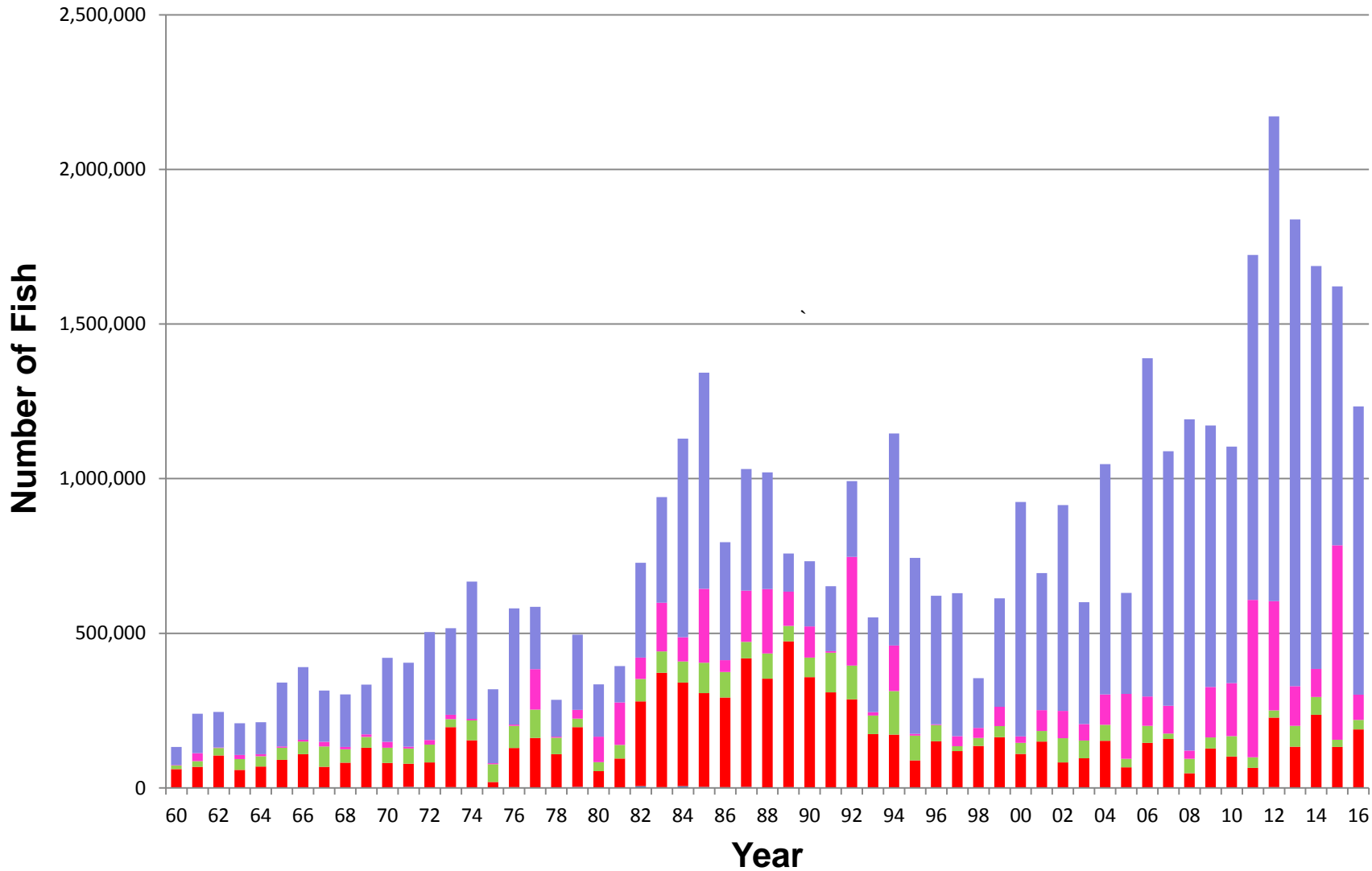
D-15 Drift Gillnet Harvest, 2016 vs. Previous 10-year Average



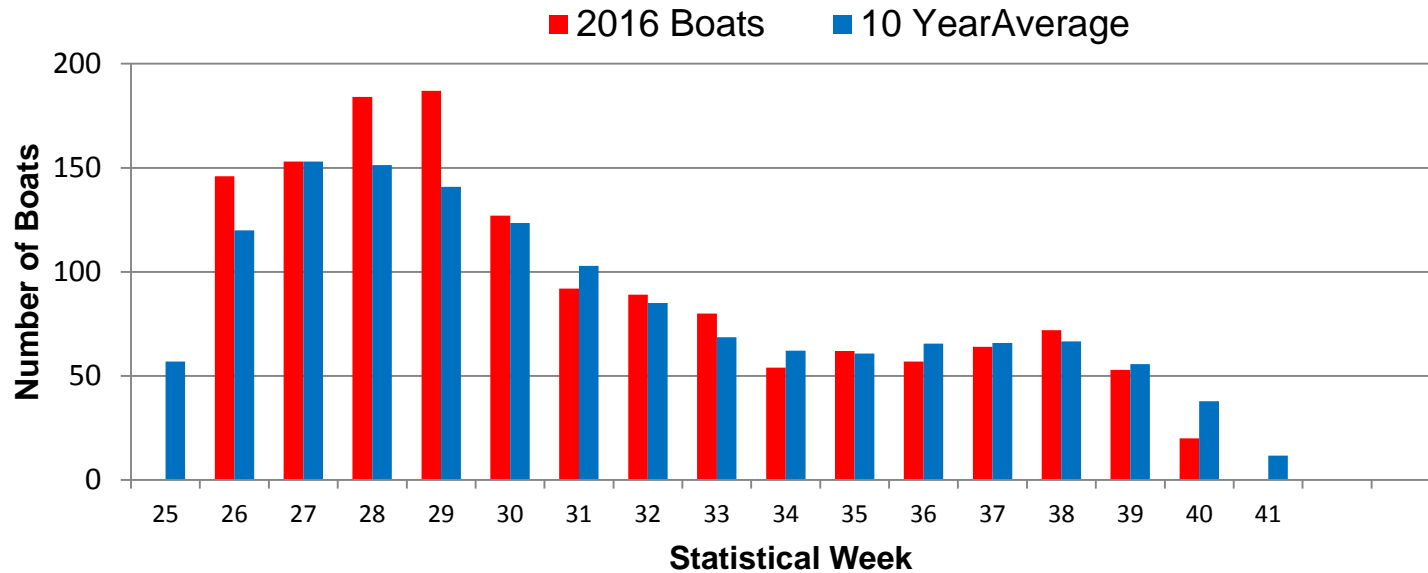
■ 2016	475	188,844	30,534	81,970	931,919
■ Average	1,060	135,353	42,861	225,434	1,093,311

Commercial Harvests of Pacific Salmon in District 15, 1960-2016

■ Chinook ■ Sockeye ■ Coho ■ Pink ■ Chum

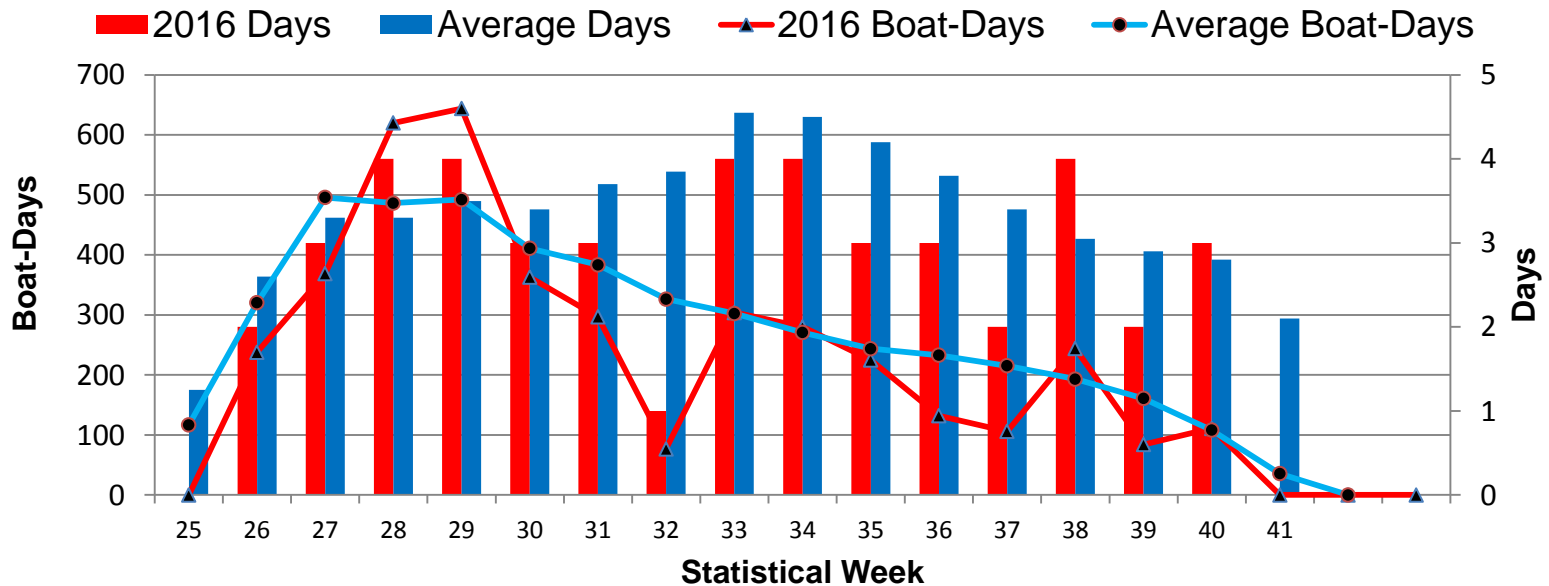


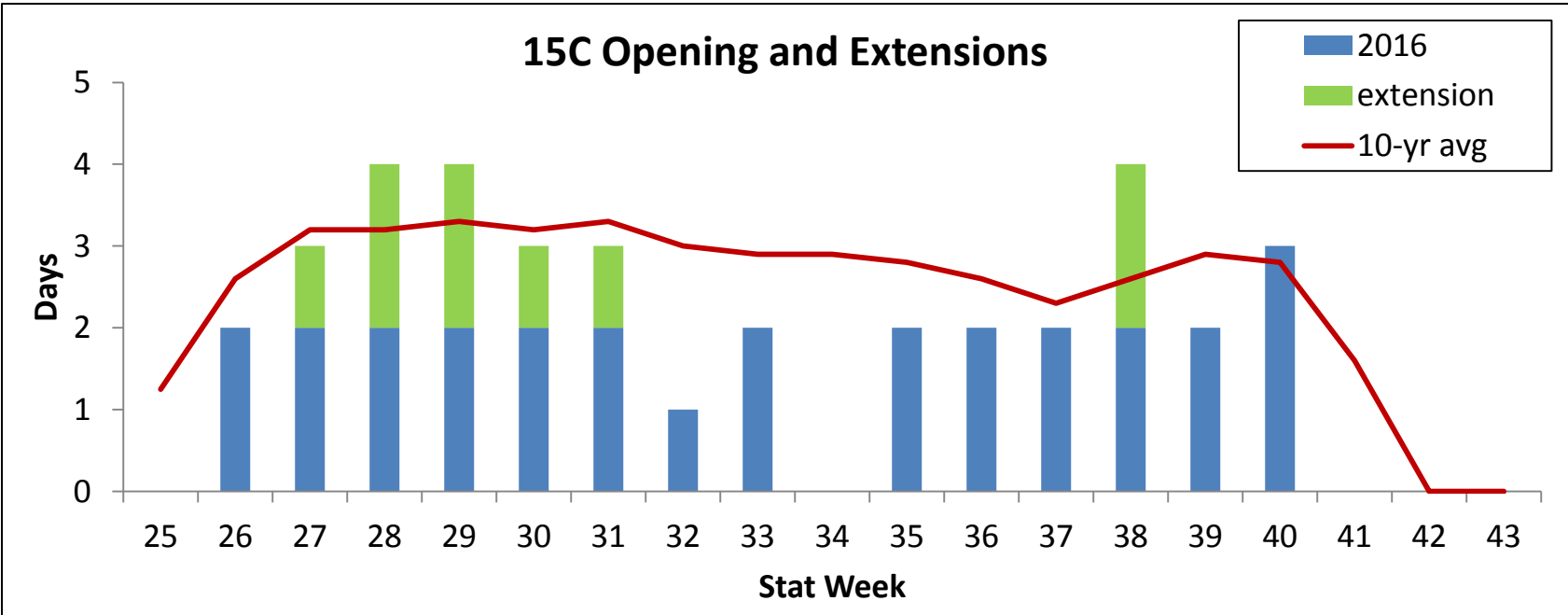
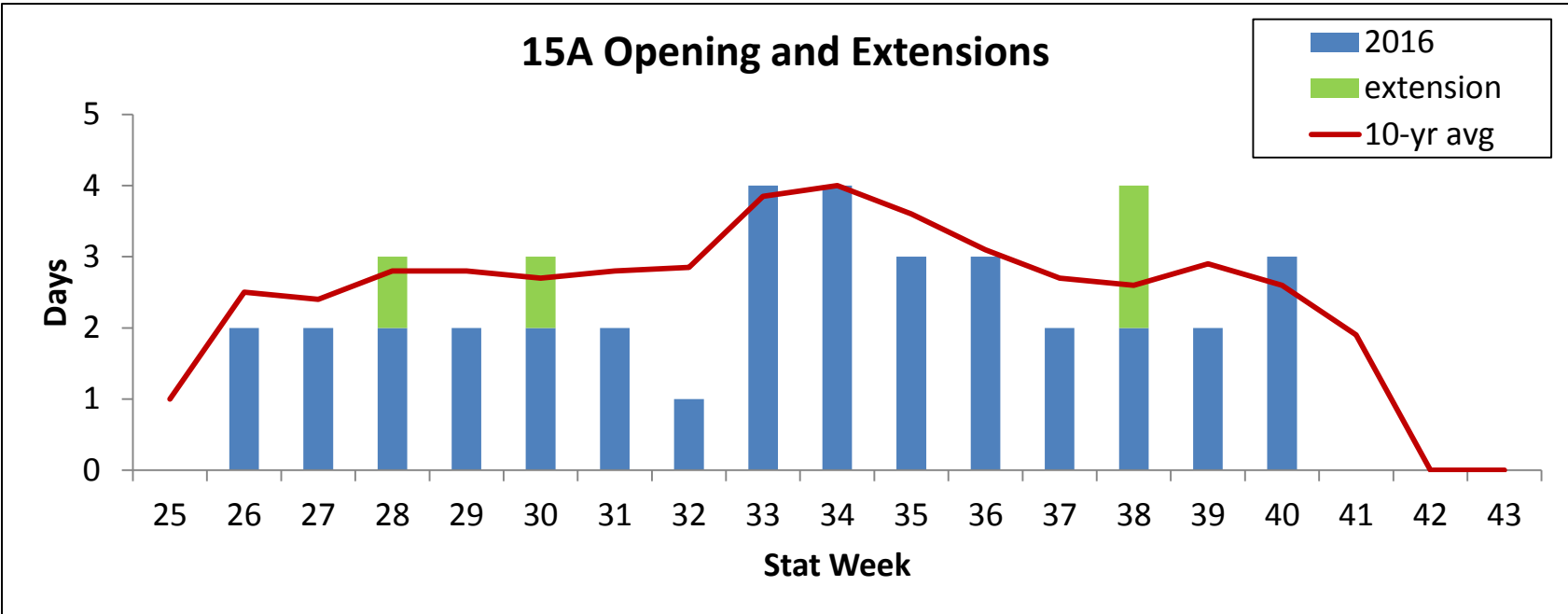
Number of Boats in the D-115 DGN Fishery, 2016



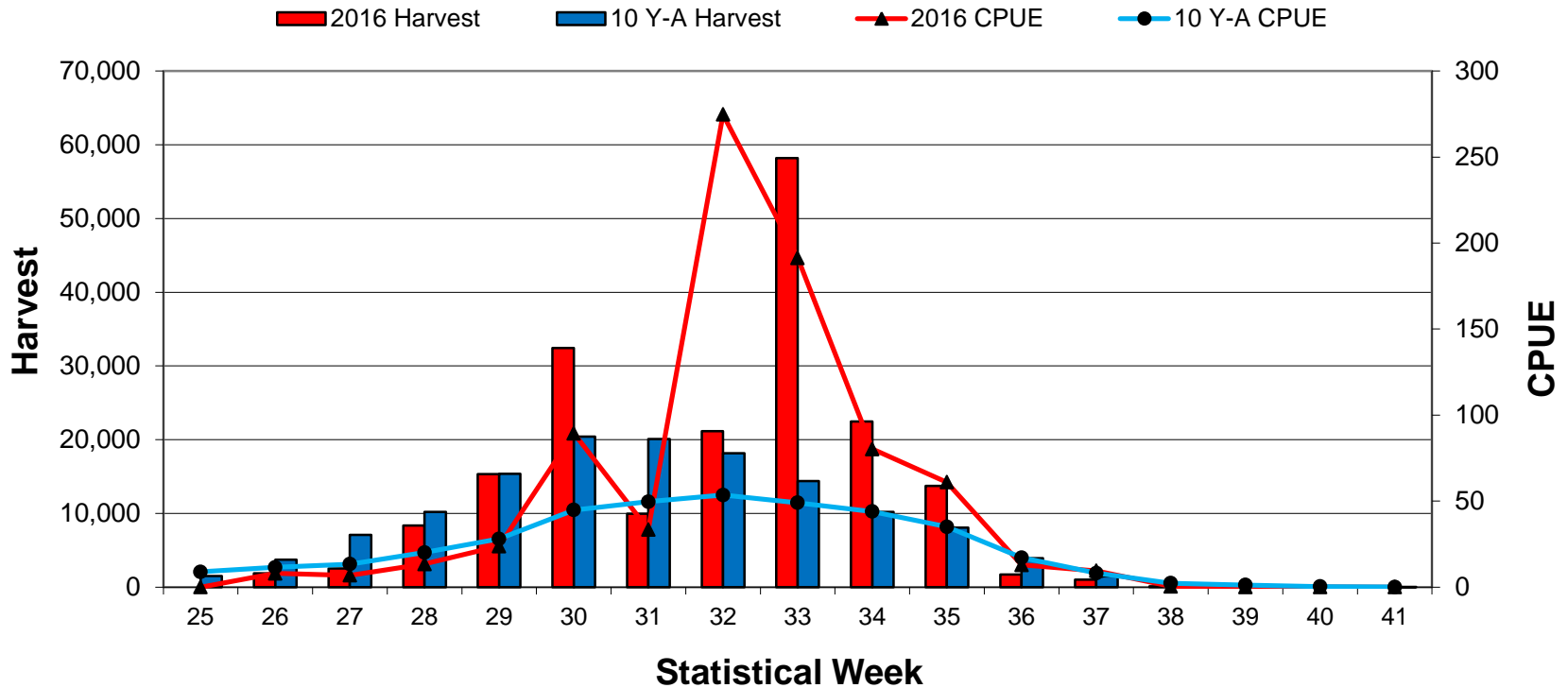
201 unique permits fished D-15 in 2016. 1980-2015 average is 212. 2006-2015 average is 195.

Days and Boat-days in the D-115 DGN Fishery, 2016





2016 District 15 Weekly Sockeye Harvest and CPUE



2016 District 15 Sockeye Harvest (based on scale pattern analysis)

- Total sockeye = 188,844 (1.4 times the 10-year average)
- Chilkoot Lake = 119,887 (63%) (1.9 times the 10-year average)
- Chilkat Lake = 36,010 (19%) (0.8 times the 10-year average)
- Others = 32,947 (17%) (1.2 times the 10-year average)

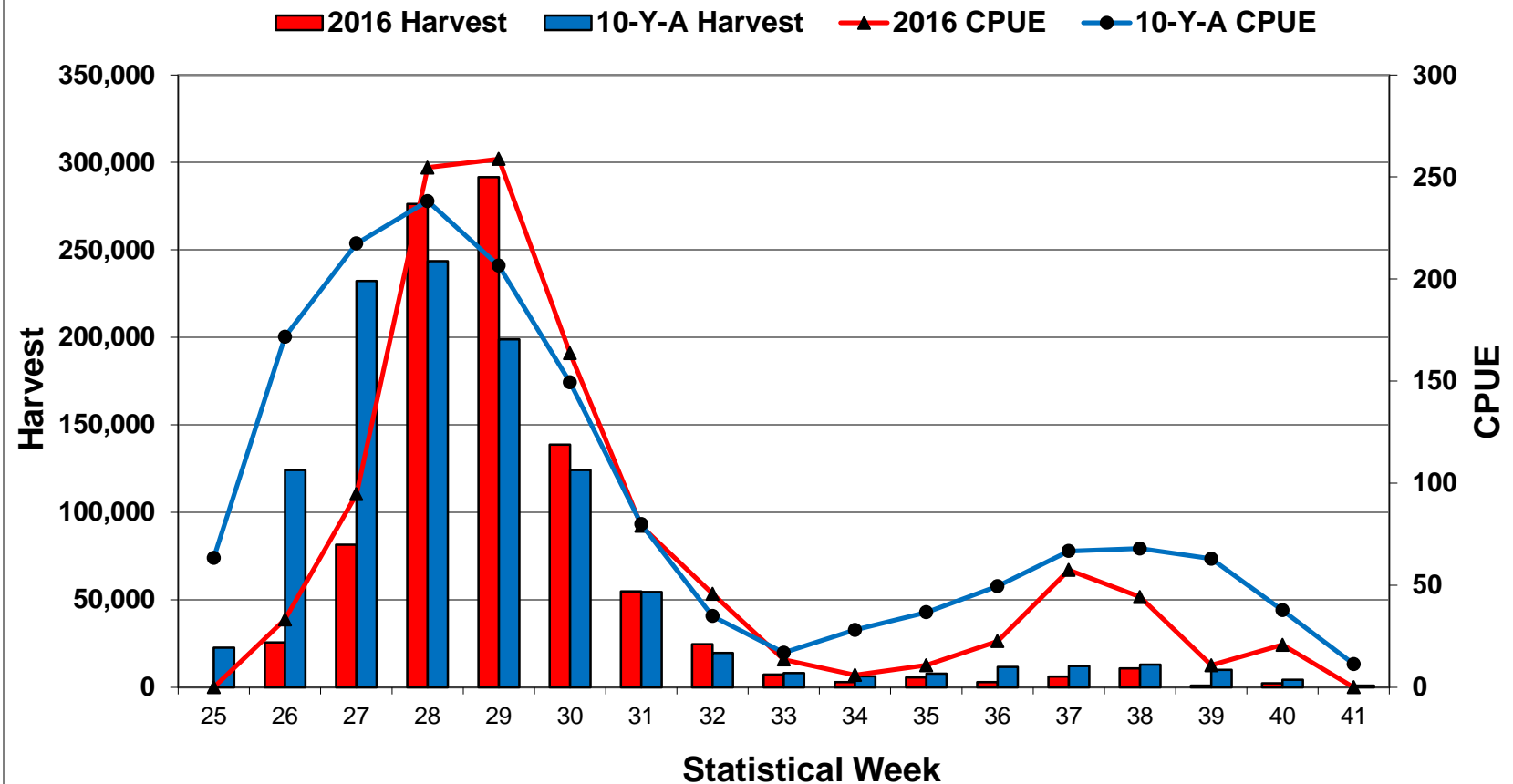
2016 Port sampling D-15 Sockeye commercial catch results

Statistical Week	Sample Size	Chilkat	Chilkoot	Other	Total
26	212	474	626	796	1,896
27	379	584	882	1,048	2,514
28	436	863	3,318	4,181	8,361
29	442	3,712	5,794	5,829	15,335
30	482	6,462	18,914	7,067	32,443
31	450	1,436	4,772	3,733	9,941
32	309	4,108	13,007	4,039	21,154
33	440	7,140	47,205	3,835	58,180
34	415	4,600	16,616	1,245	22,461
35	437	5,495	7,253	973	13,721
36	Wk 35	682	901	121	1,704
37	Wk 35	404	533	72	1,008
38	Wk 35	46	61	8	116
39	Wk 35	2	3	0	5
40	Wk 35	2	3	0	5
Total	4,002	36,010	119,887	32,947	188,844

2016 Sockeye harvest by week and section

Statistical Week	Section 15A	Section 15C	Total
26	626	1,270	1,896
27	323	2,191	2,514
28	3,269	5,092	8,361
29	2,755	12,580	15,335
30	7,930	24,513	32,443
31	4,499	5,442	9,941
32	14,677	6,477	21,154
33	54,794	3,386	58,180
34	22,461	0	22,461
35	12,581	1,140	13,721
36	1,411	293	1,704
37	551	457	1,008
38	100	16	116
39	3	2	5
40	5	0	5
Total	125,985	62,859	188,844

2016 District 15 Weekly Chum Harvest and CPUE



2016 District 16 Chum Harvest

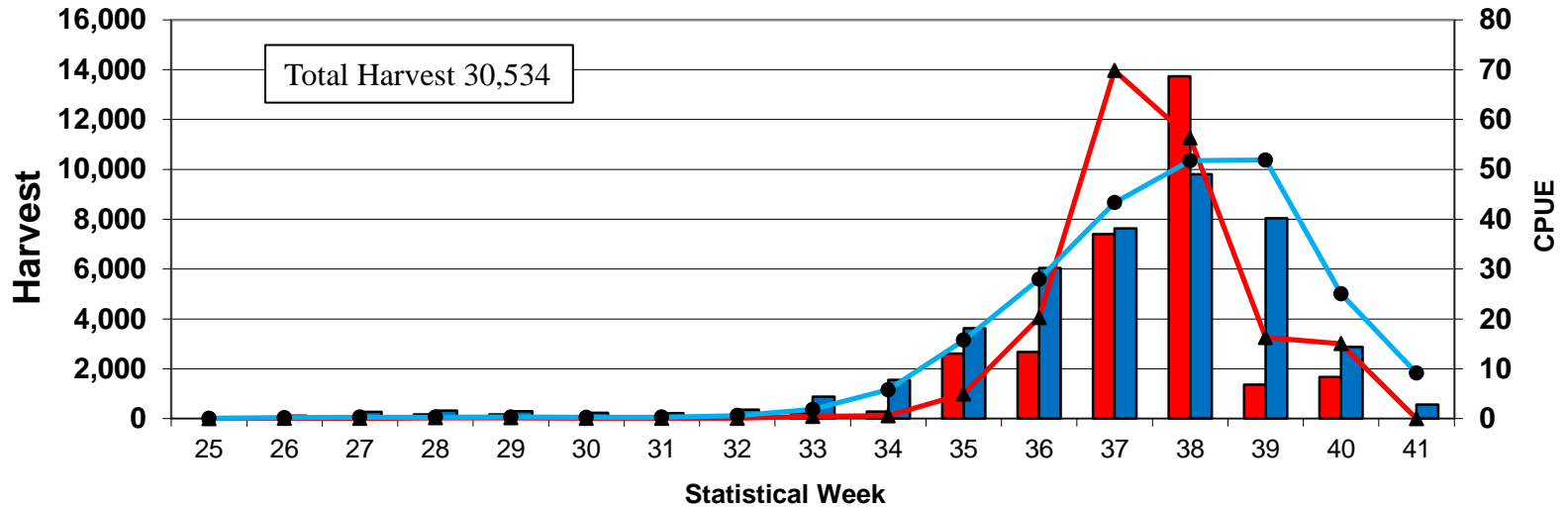
Summer Chum Harvest = 900,262 (88% the 10-year average, 1.3 times 2015 harvest)

Fall Chum Harvest = 31,657 (48% of the 10-year average)

Total Chum Harvest = 931,919 (85% of the 10-year average)

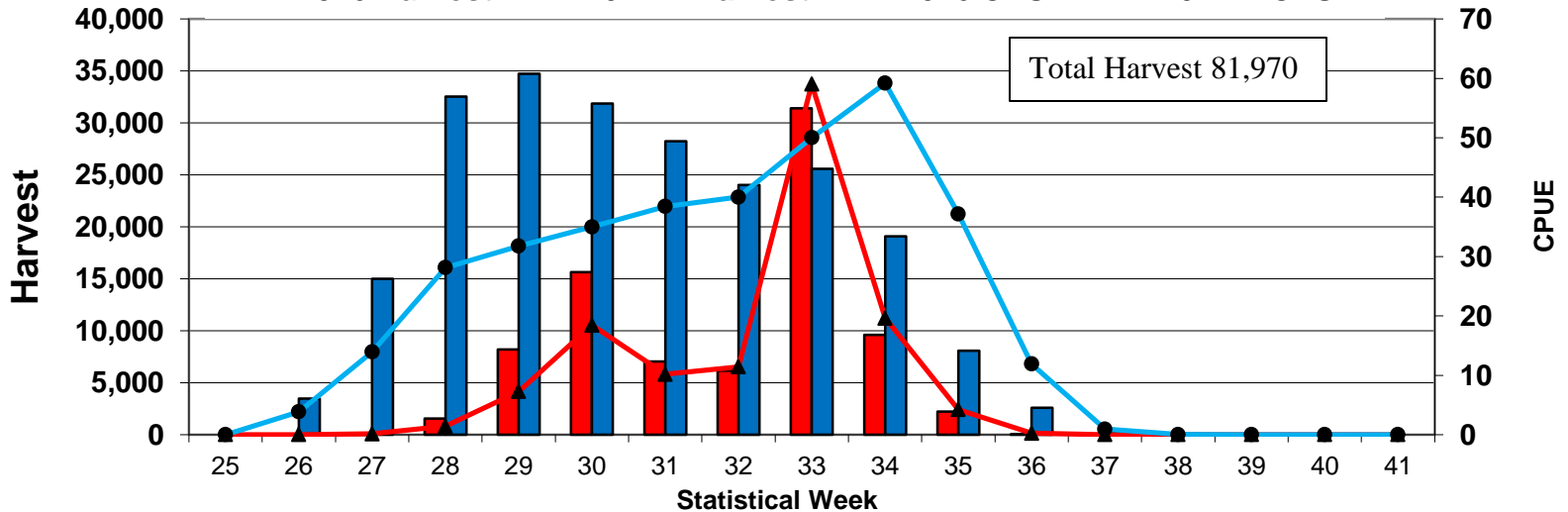
2016 District 15 Weekly Coho Harvest and CPUE

2016 Harvest 10-Y-A Harvest 2016 CPUE 10-Y-A CPUE



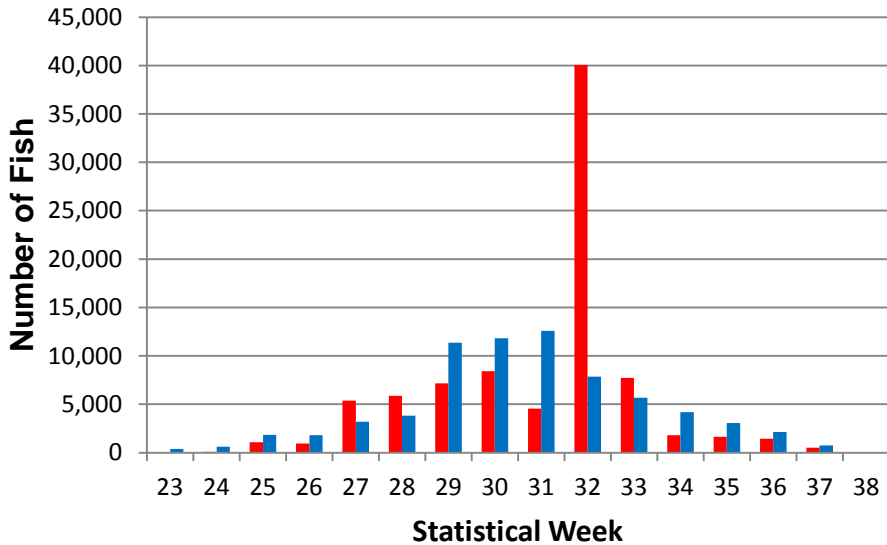
2016 District 15 Weekly Pink Harvest and CPUE

2016 Harvest 10-Y-A Harvest 2016 CPUE 10-Y-A CPUE



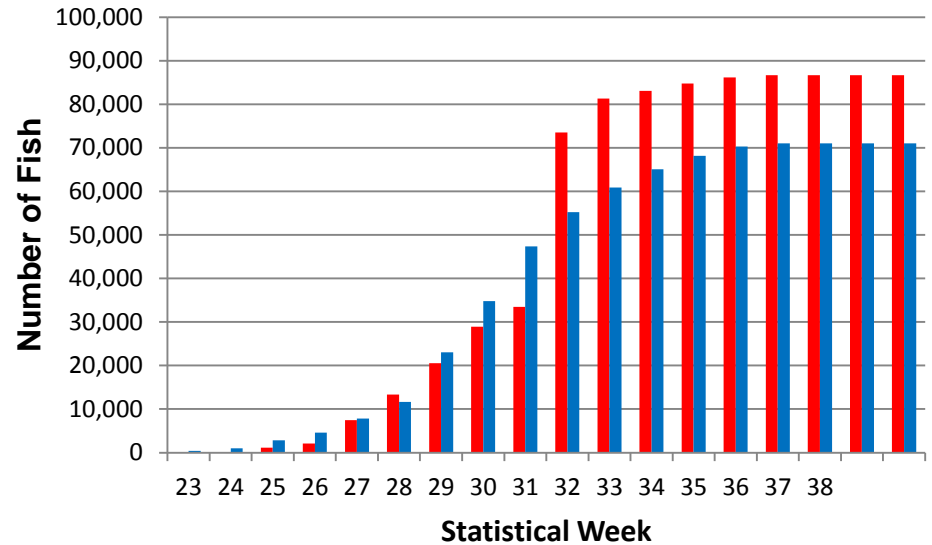
2016 Chilkoot Lake Sockeye Weir Counts

■ 2016 ■ 06-15 Average



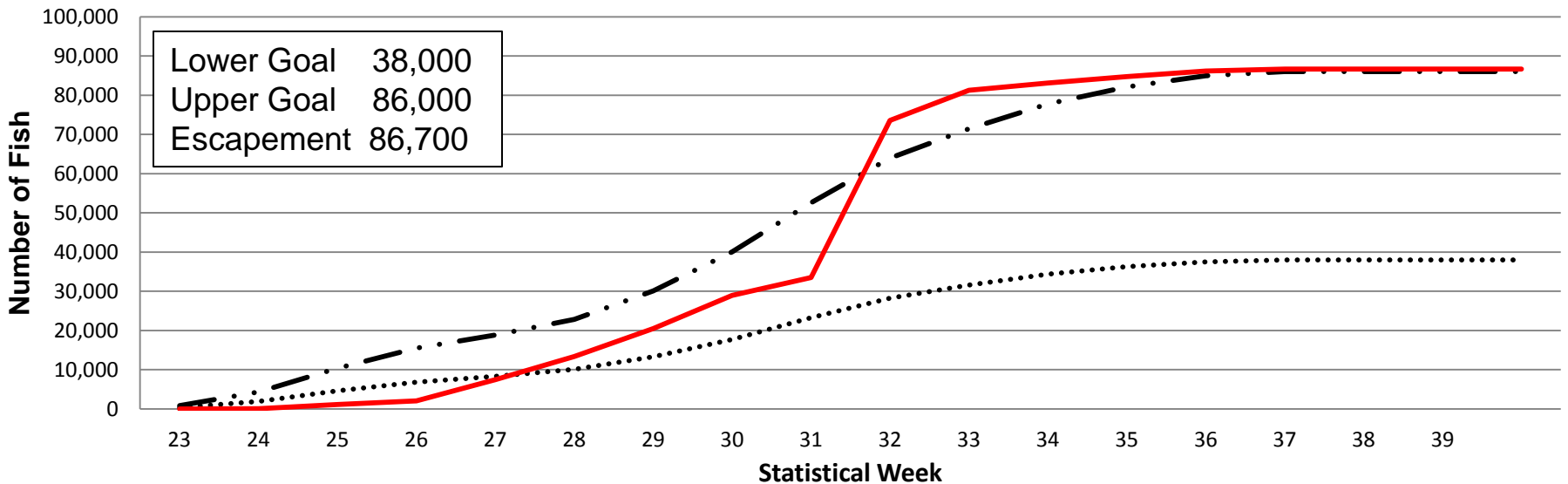
2016 Cumulative Chilkoot Lake Sockeye Weir Counts

■ 2016 ■ 06-15 Average

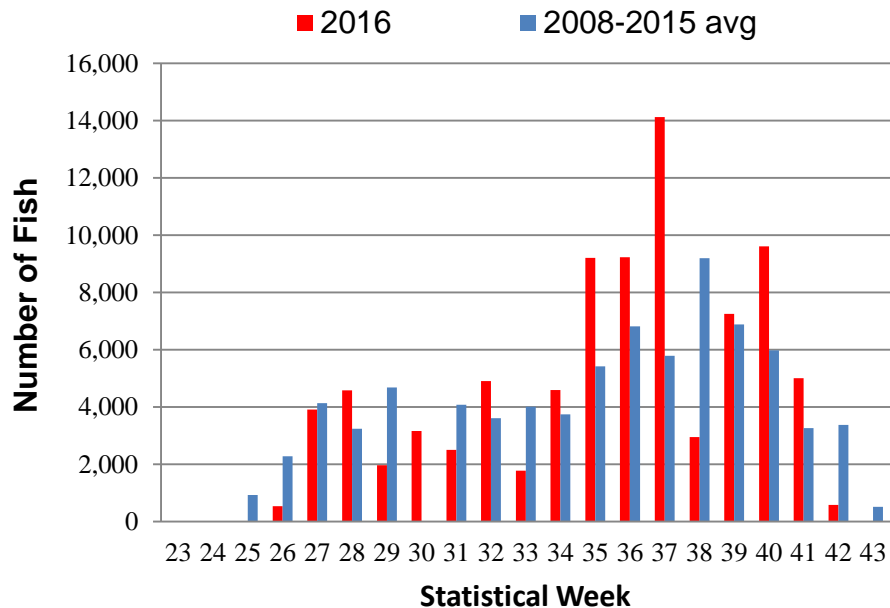


2016 Chilkoot Weir Counts and Escapement Goals

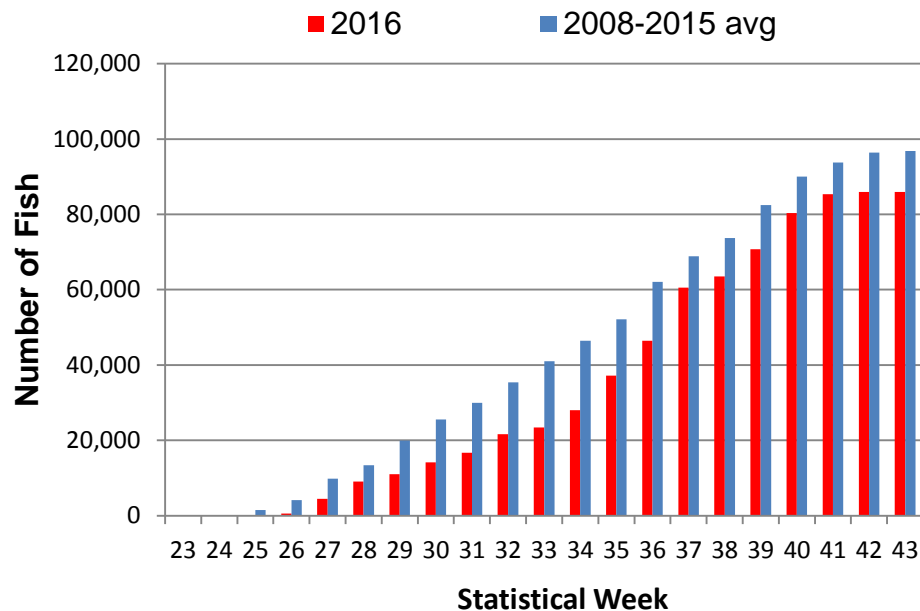
..... Lower Bound Goal - - - Upper Bound Goal — Cumulative Escapement



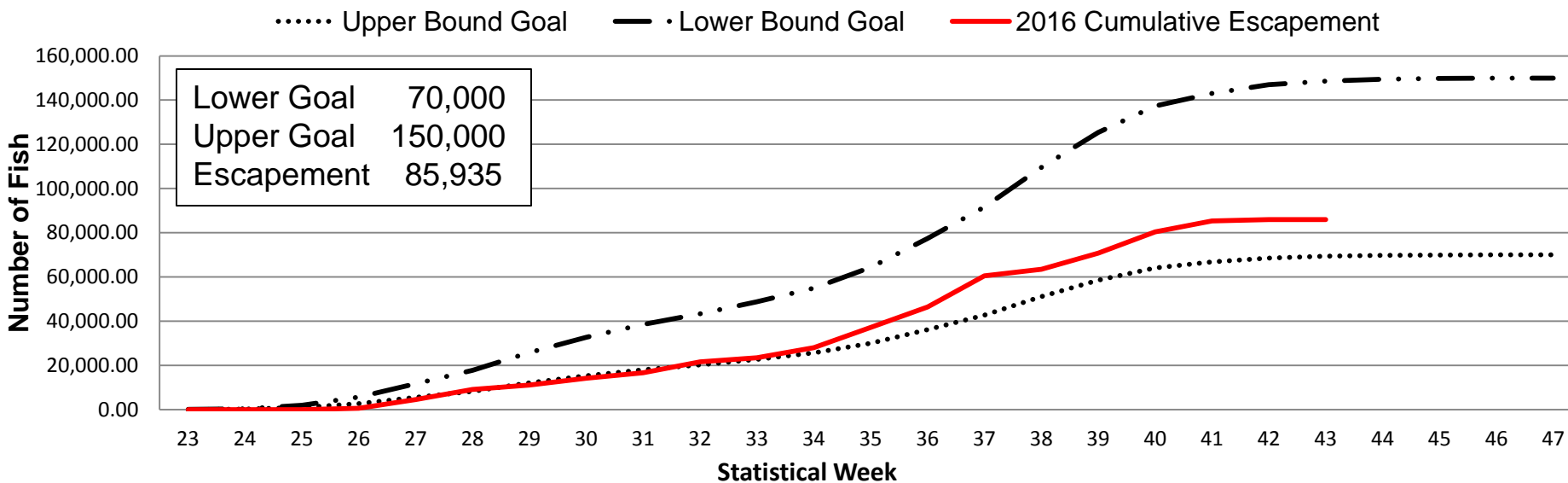
2016 Chilkat Lake DIDSON Counts



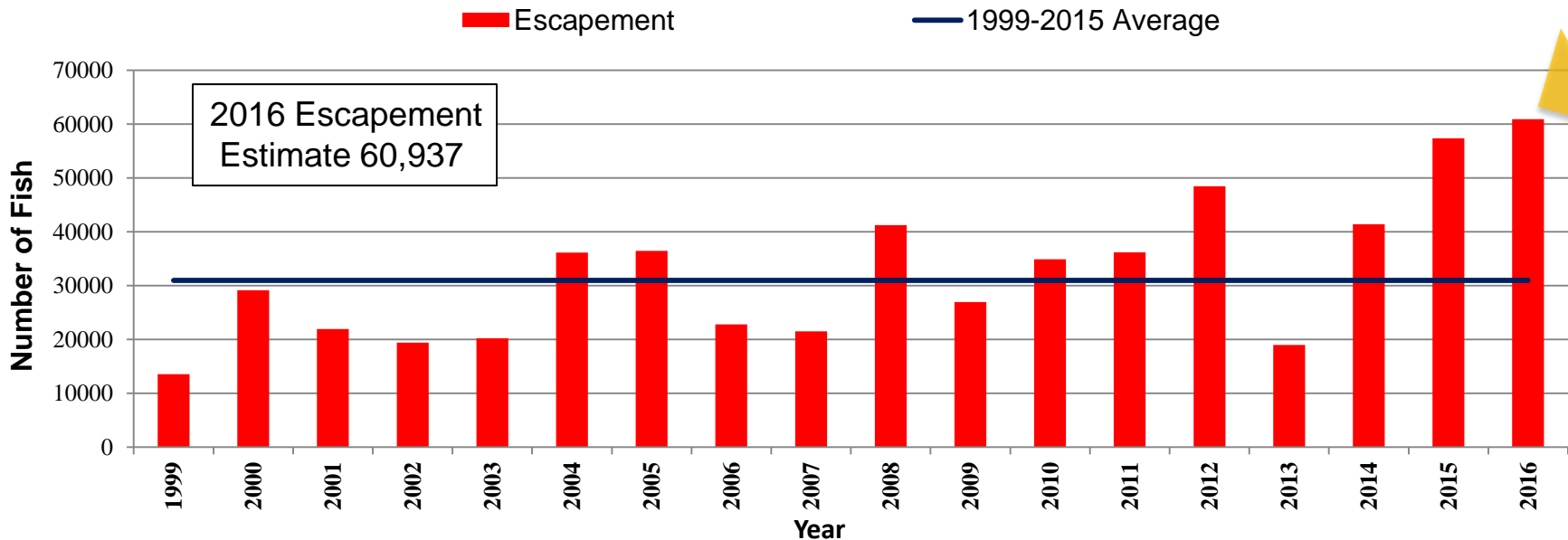
2016 Chilkat Lake DIDSON Cumulative Counts



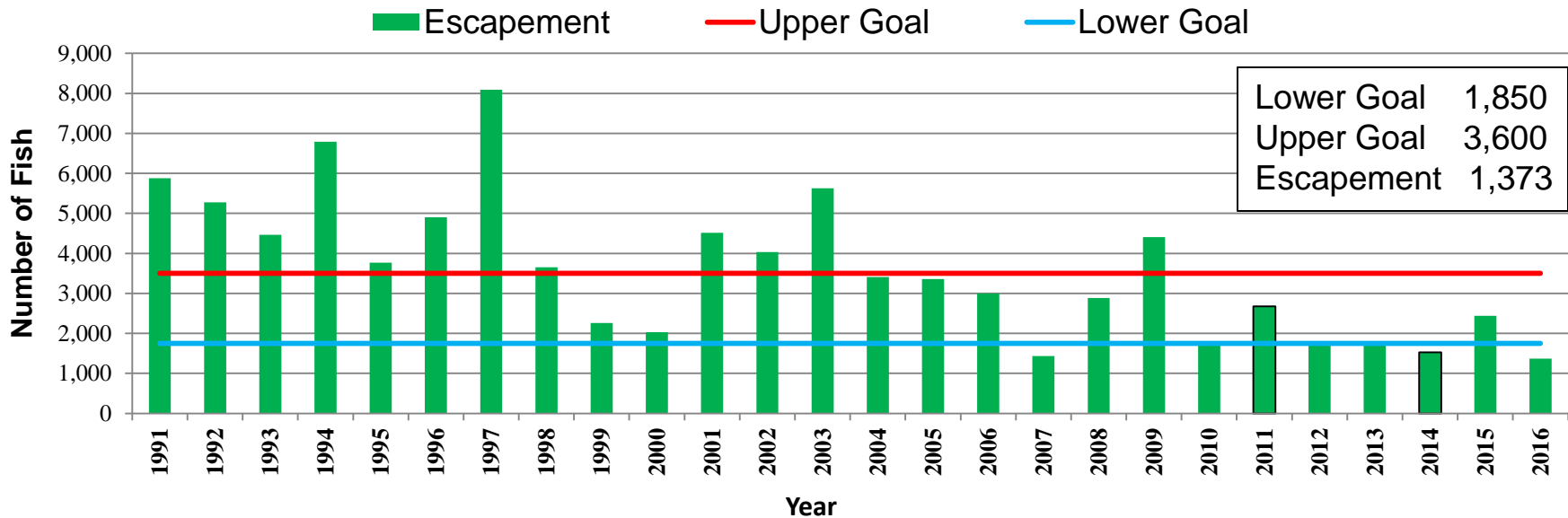
2016 Chilkat Weir DIDSON Counts and Escapement Goals



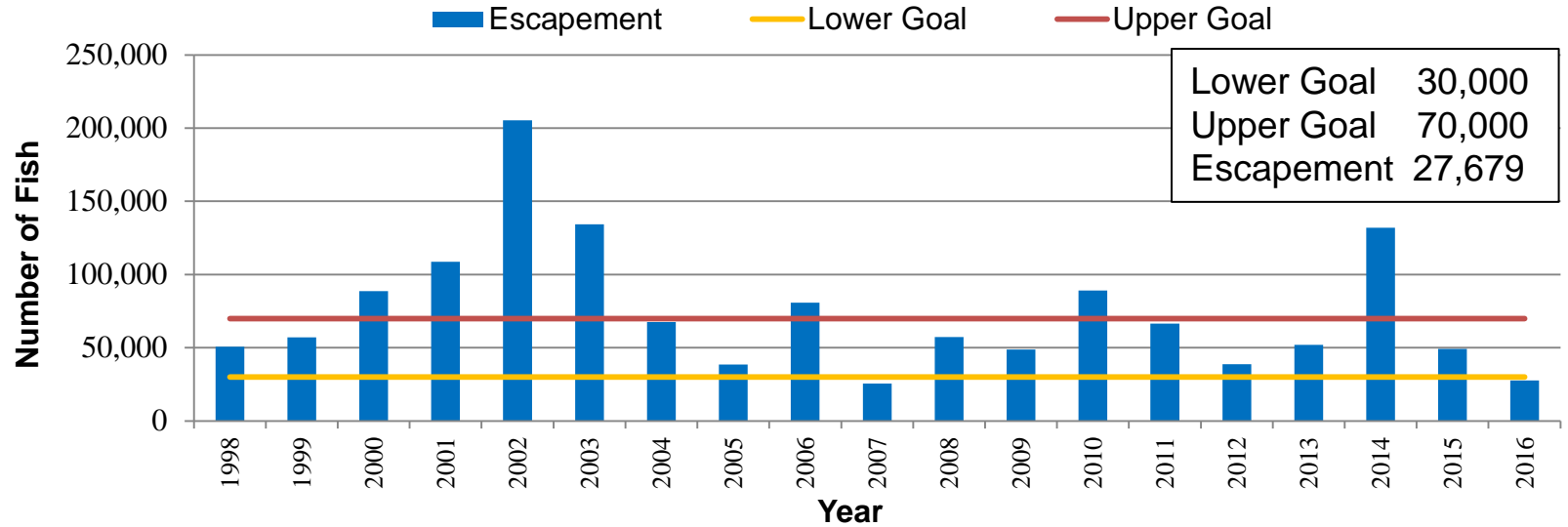
Chilkat River Mainstem Sockeye Escapement, 1999-2016



Chilkat River Chinook (age 1.3+) Escapement, 1991-2016

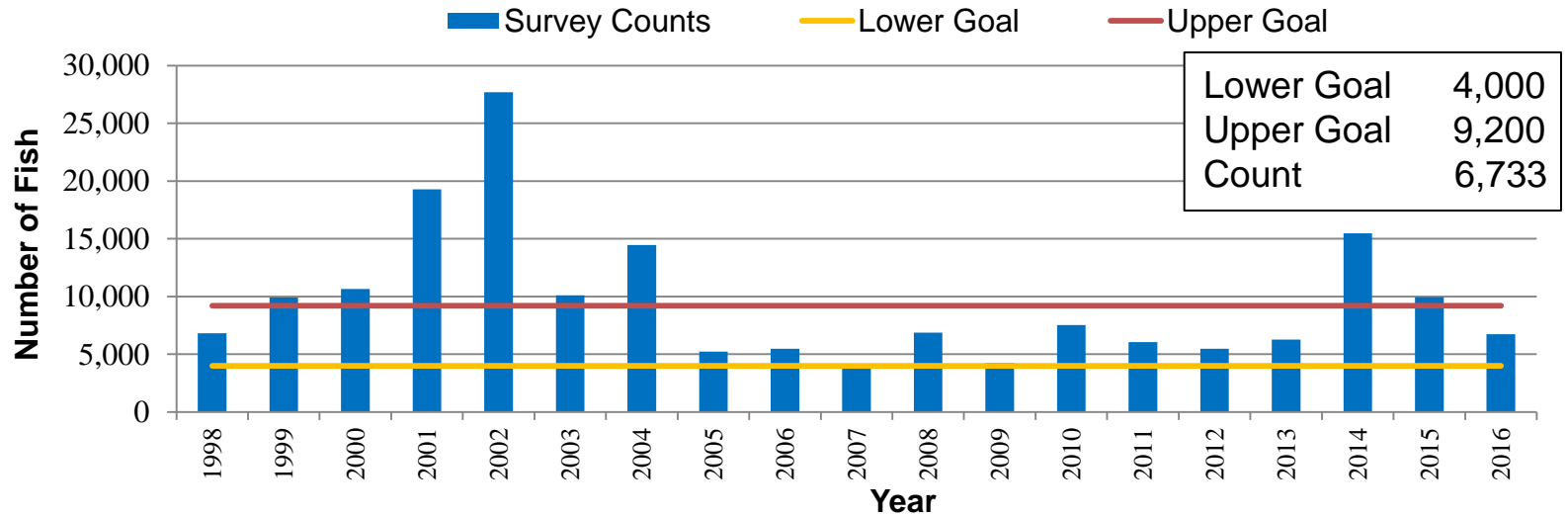


Chilkat River Coho Salmon Escapement, 1998-2016

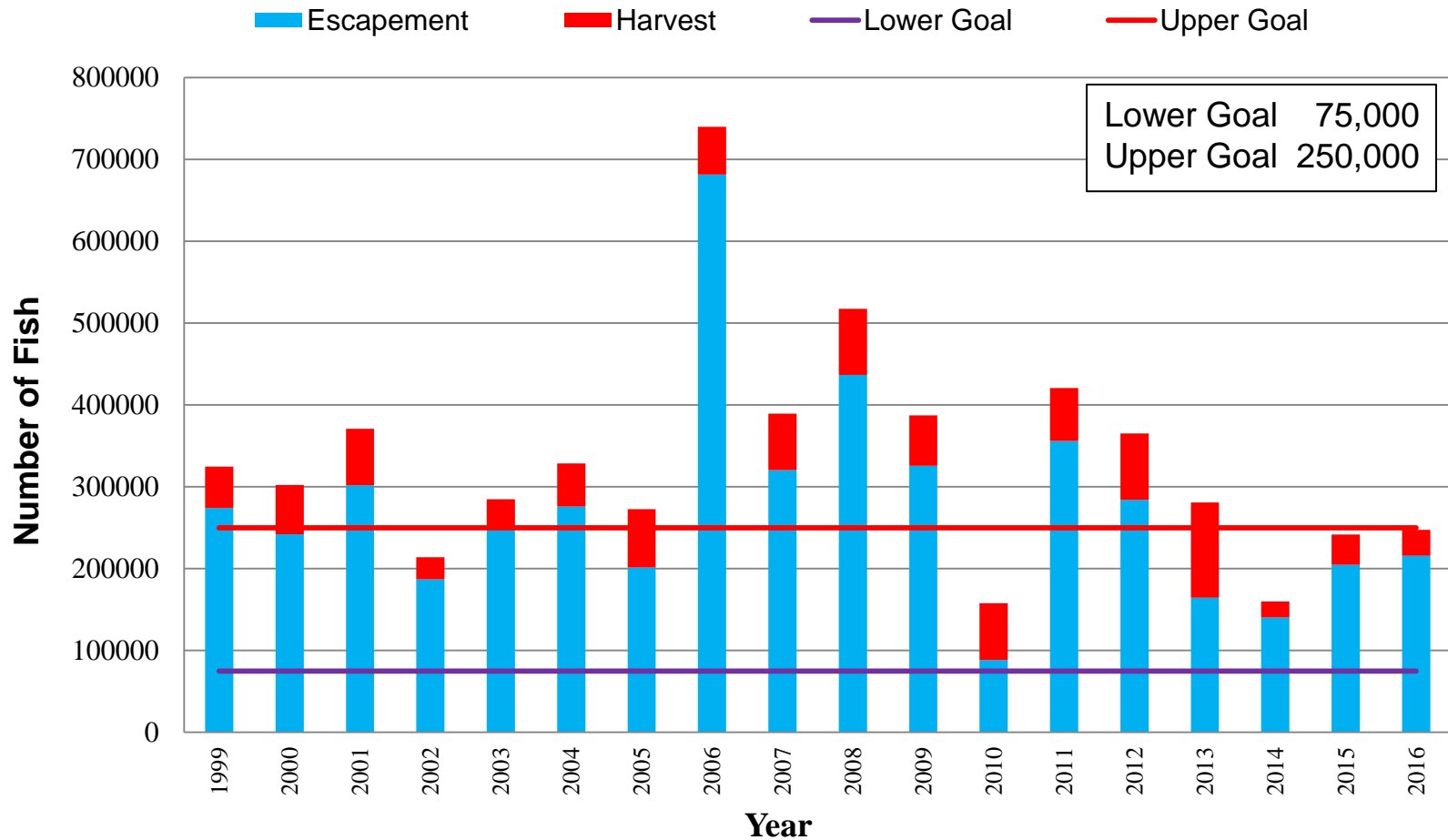


Very low water level during the fall on the Chilkat River. Not all surveys were completed

Berners River Coho Salmon Counts, 1998-2016



Chilkat River Drainage Fall Chum Escapement and Harvest 1999-2016



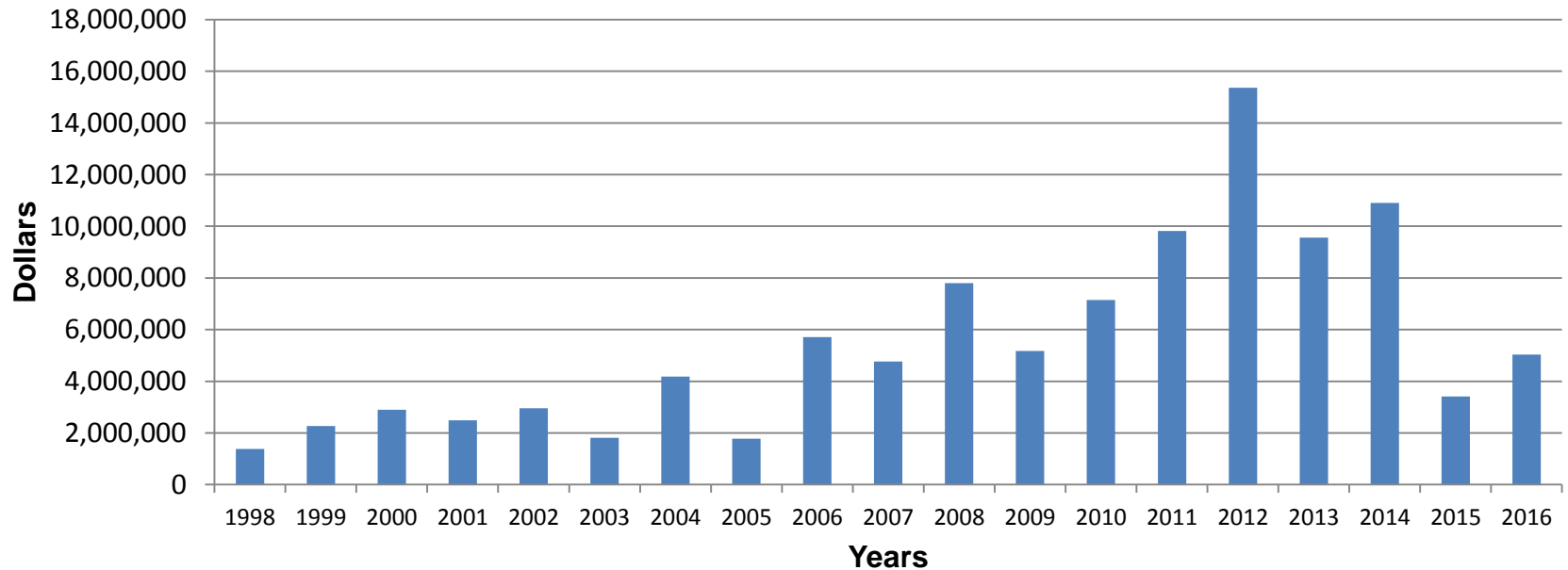
Chilkat and Klehini River Chum Salmon

- Above average return to the Klehini River and average for the Chilkat River spawning areas.
- Total 2016 Chum Escapement estimated to be **216,000** fish.

Pink and Chum Salmon Escapements in District 15

- Pink salmon escapements were below average throughout the district.
- Summer chum salmon escapements were below average throughout the district.

Lynn Canal Drift Gillnet Salmon Fishery Value, 1998-2016

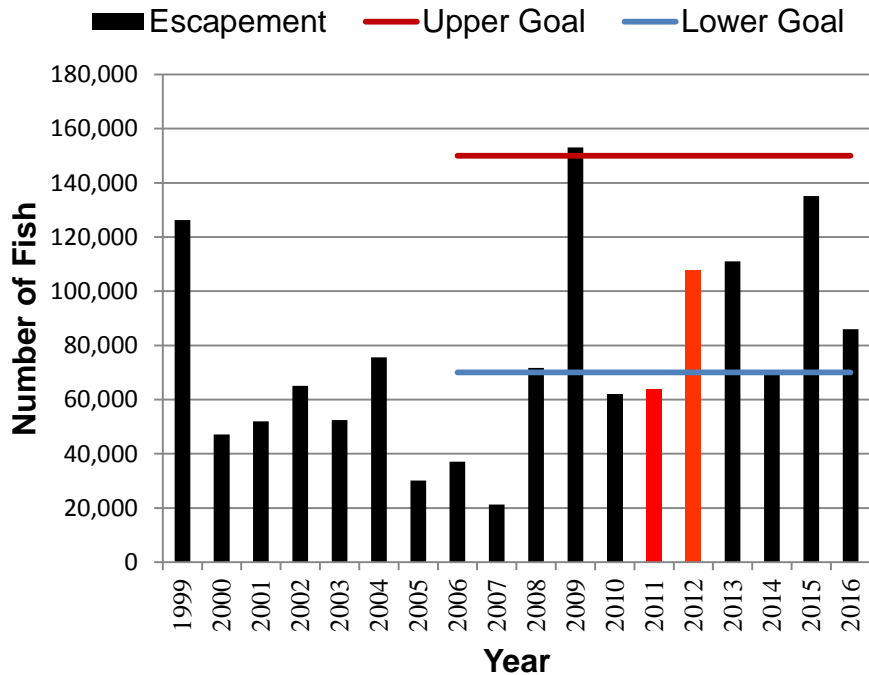


2017 Projections

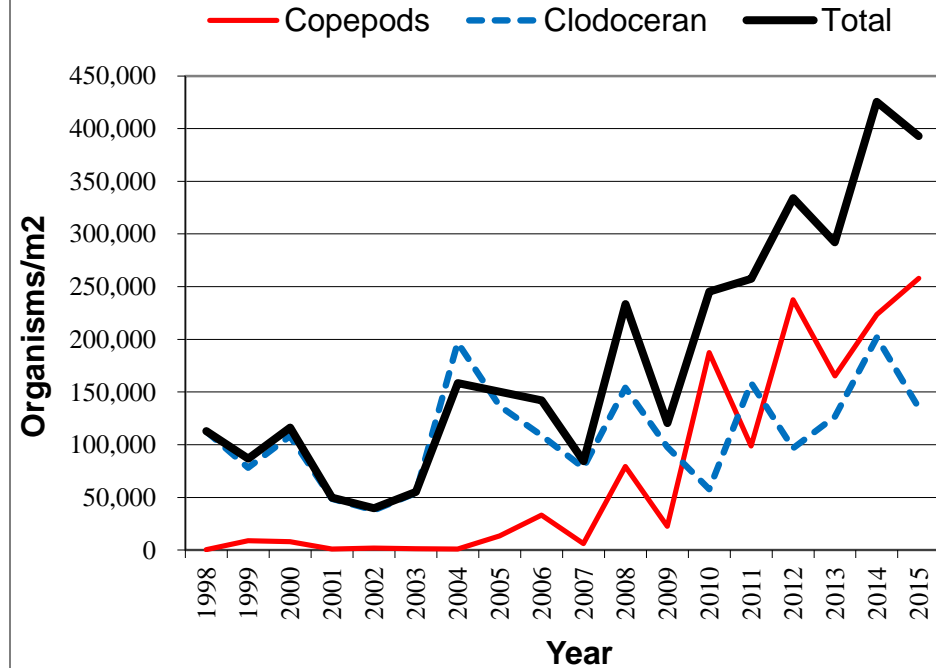
Chilkat Lake Sockeye Salmon – Average Return Strength for 2017.

- Parental year escapement was below the escapement goal range in 2011 and near the midpoint of the goal range in 2012 (brood years for 2017 return).
- Zooplankton levels were well above average of 189,430 organisms/m² in Chilkat Lake for rearing fry in 2013 and 2014, but closer to average in 2012, the first year of rearing for the age-2:3 fish returning in 2017
- The proportion of age-2.2 in the 2016 escapement was well below average. The escapement in the parent year for this cohort was below average, and these factors combined could indicate a below average to average return of age-2.3 fish in 2017.

Chilkat Late Escapement, 1999-2016



Chilkat Lake Total Zooplankton Density, 1998-2015

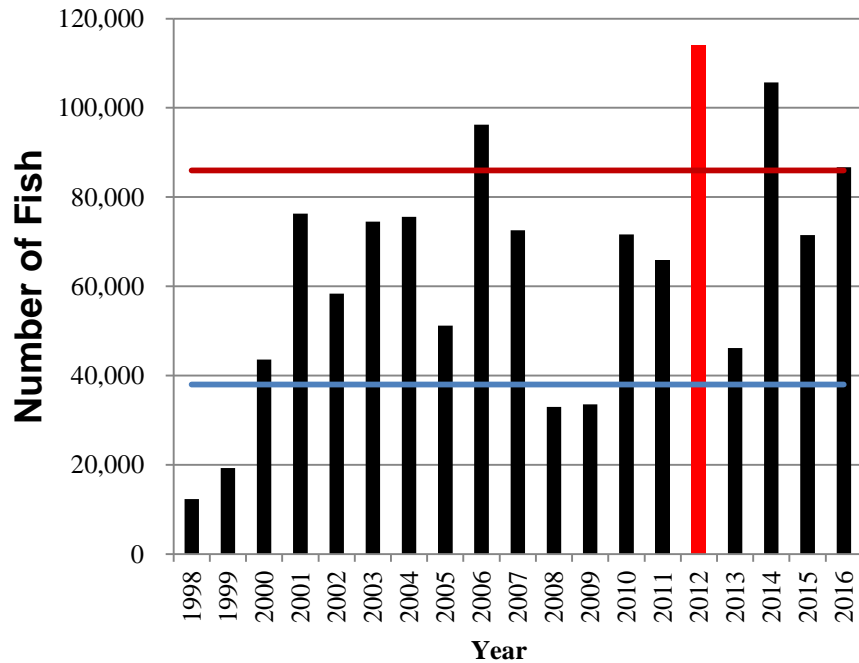


Chilkoot Lake Sockeye- Average Return Strength for 2017.

- 2012 weir count of 114,025 sockeye was well above the goal range of 38,000 - 86,000 fish.
- Lake productivity in 2013 (zooplankton density and rearing smolt density) declined, possibly as a result of the relatively high escapement. This could result in a decline in the return per spawner.

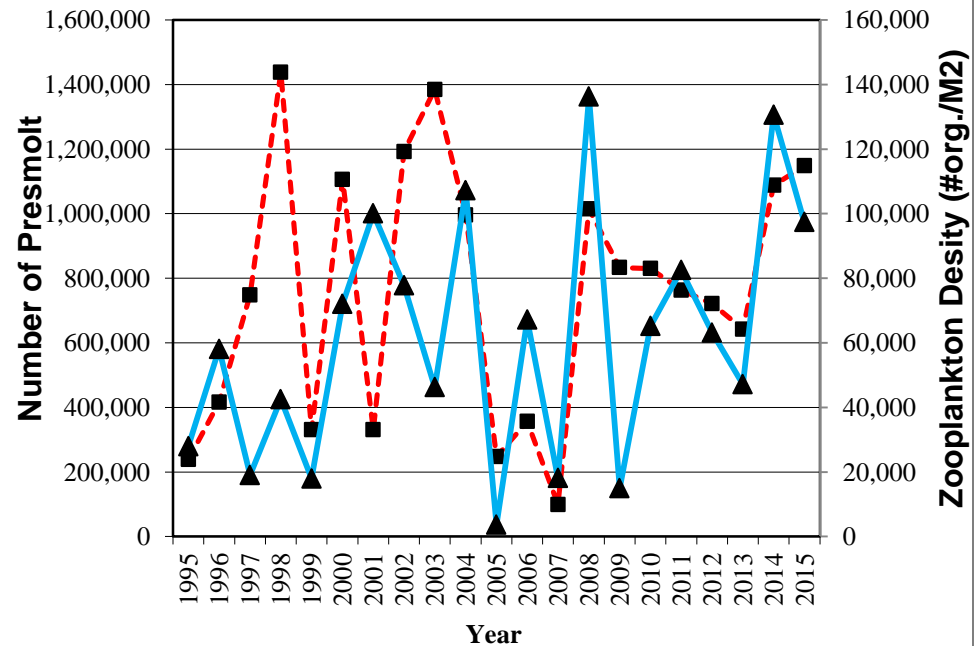
Chilkoot Lake Escapement, 1998-2016

Escapement Lower Goal Upper Goal



Chilkoot Lake Hydroacoustic Presmolt Estimate and Zooplankton Density, 1995-2015

Hydroacoustic Presmolt Estimate Zooplankton Density



Questions?

