



2023 Return & 2024 Forecast

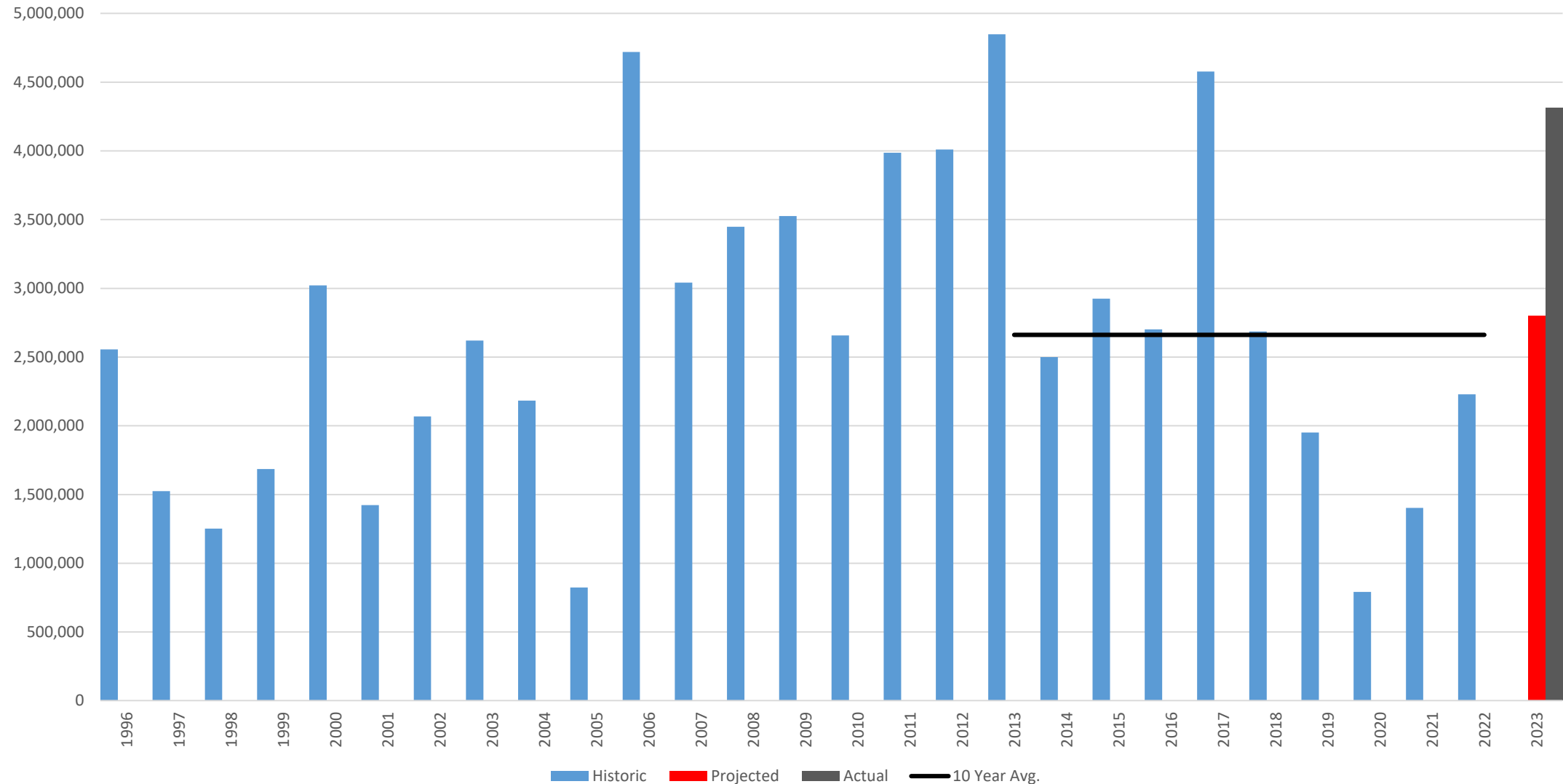
DIPAC Board of Directors Meeting – December 2nd, 2023

Steve Wiechmann
Research Manager

2023 Chum Return

	Age-3	Age-4	Age-5	Age-6	Total
Actual:	258,900	3,133,000	913,400	5,700	4,311,000
Projected:	108,000	1,900,000	747,600	44,400	2,800,000
% of Projected:	240%	165%	122%	13%	154%

2023 Chum Return: Actual vs. Projected Harvest



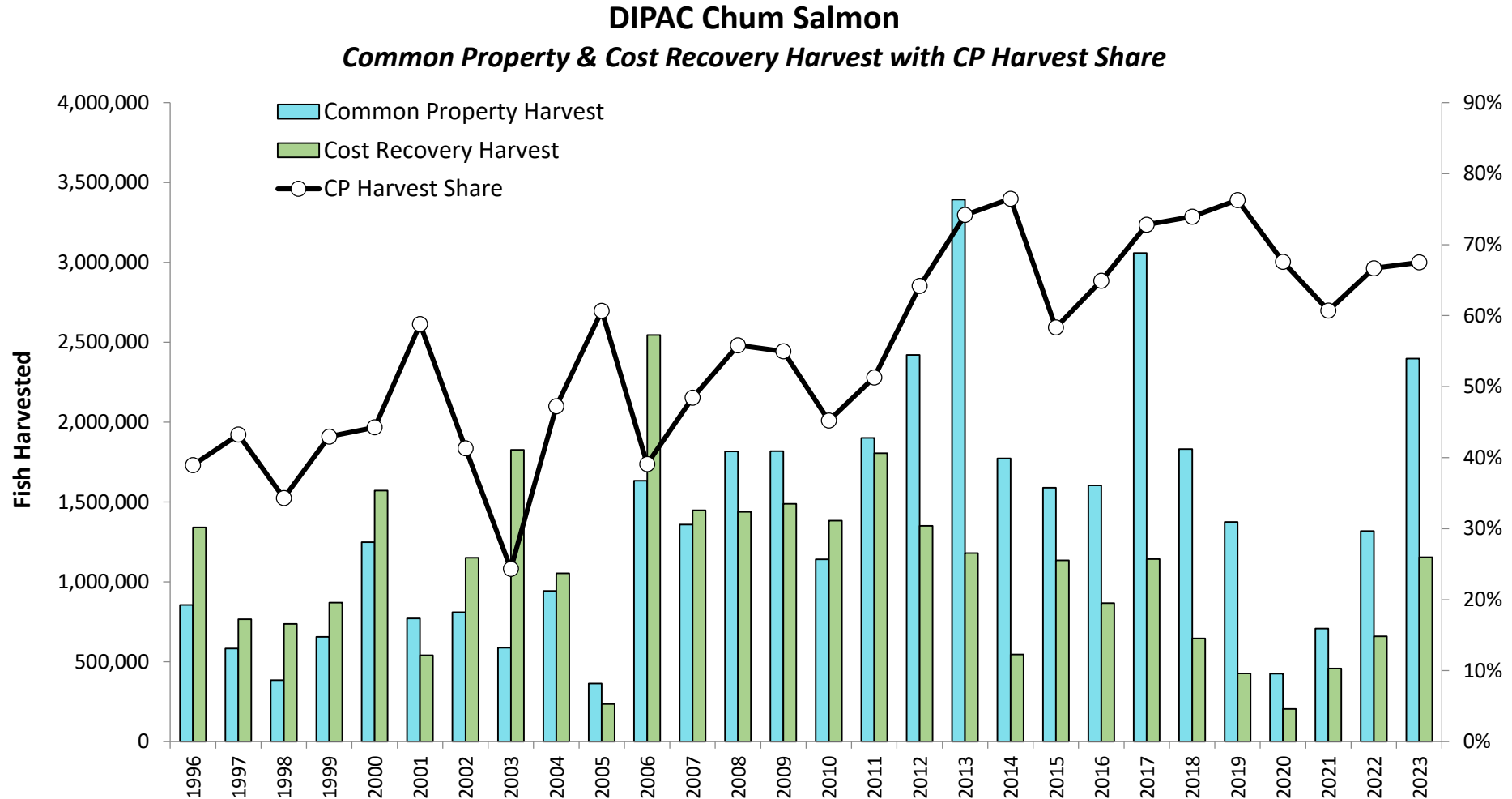
2023 Chum Return: Contribution, Cost Recovery, & Harvest Shares

	Common Property Harvest	DIPAC Contrib.	% DIPAC Contrib.	Cost Recovery	Total Harvest
Lynn Canal GN	1,337,000	1,297,000	97%	971,400	2,268,000
Taku/Stephens GN	617,800	601,900	97%	284,800	886,700
Homeshore Troll	12,300	9,000	73%		9,000
Amalga CP-Seine	399,300	399,300	100%		399,300
Other Seine	157,600	74,600	47%		74,600
Misc. SEAK	11,200	11,200	100%		11,200
Sport		5000	100%		5000
Broodstock & Esc.					657,000
Total	2,536,000	2,398,000		1,256,000	4,311,000
Harvest Shares			66%	34%	

2023 Chum Return: Cost Recovery Summary

	Fish	Pounds
Amalga Harbor	971,400	4,927,000
Gastineau Channel	183,200	894,600
Macaulay Hatchery	101,600	467,300
	1,256,000	6,289,000

DIPAC Chum Harvest: Cost Recovery, Common Property, & Harvest Shares



Chum Marine Survival

Broodyear	Age 3	Age 4	Age 5	Age 6	Total
2016	0.08%	0.52%	0.08%	0.01%	0.69%
2017	0.17%	1.17%	0.56%	0.01%	1.91%
2018	0.05%	1.39%	0.89%		2.33%
2019	0.17%	2.93%			3.09%
2020	0.22%				0.22%
Historic	0.08%	1.65%	0.70%	0.03%	2.46%

Preliminary Alaska Chum Harvest

2023 Weekly Alaska Salmon Harvest Update #13

Harvest Through 9/9/2023 (Statistical Week 36)

(Estimated ex-vessel metric tons)

	Sockeye			Pink			Keta			Coho			Chinook*		
	YTD 2022	YTD 2023	YoY	YTD 2021	YTD 2023	YoY	YTD 2022	YTD 2023	YoY	YTD 2022	YTD 2023	YoY	YTD 2022	YTD 2023	YoY
AYK	-	-	-	368	4	-99%	1,400	460	-67%	31	10	-68%	-	-	-
Kodiak	4,480	4,707	+5%	32,097	34,311	+7%	1,365	2,188	+60%	250	709	+184%	28	17	-39%
Chignik	758	2,427	+220%	1,920	3,029	+58%	191	223	+17%	104	102	-2%	10	2	-80%
Alaska Peninsula	18,433	6,579	-64%	22,597	20,997	-7%	2,191	2,736	+25%	141	498	+253%	52	29	-44%
Bristol Bay	140,030	100,050	-29%	4	3	-25%	758	631	-17%	47	29	-38%	31	20	-35%
Cook Inlet	3,287	4,291	+31%	3,154	3,898	+24%	469	478	+2%	264	224	-15%	11	-	-100%
Prince William Sound	4,226	4,609	+9%	83,005	76,613	-8%	6,295	14,388	+129%	287	352	+23%	80	49	-39%
Southeast	3,084	2,256	-27%	61,401	59,445	-3%	29,835	38,453	+29%	2,542	2,867	+13%	1,143	691	-40%
Statewide	174,298	124,919	-28%	204,546	198,300	-3%	42,504	59,557	+40%	3,666	4,791	+31%	1,355	808	-40%

Note: YTD comparisons are based on statistical weeks. Statistical weeks between years do not align with calendar dates. Metric ton estimates are based on fish counts and average weight estimates. Data are subject to revision.

Source: Alaska Department of Fish & Game . *Chinook figures exclude harvest before week 20.

This year's Alaska's salmon harvest is 16% larger than the pre-season forecast, but down about 10% from 2022 (2021 for pinks) in estimated ex-vessel weight. Harvests are down for sockeye (-28%) and Chinook salmon (-40%), and up for keta (+40%) and coho (+31%). Pink salmon harvests are down slightly from 2021 (-3%). Coho is the only species with a significant share of the total season harvest still likely to come in during the remaining weeks of the season.

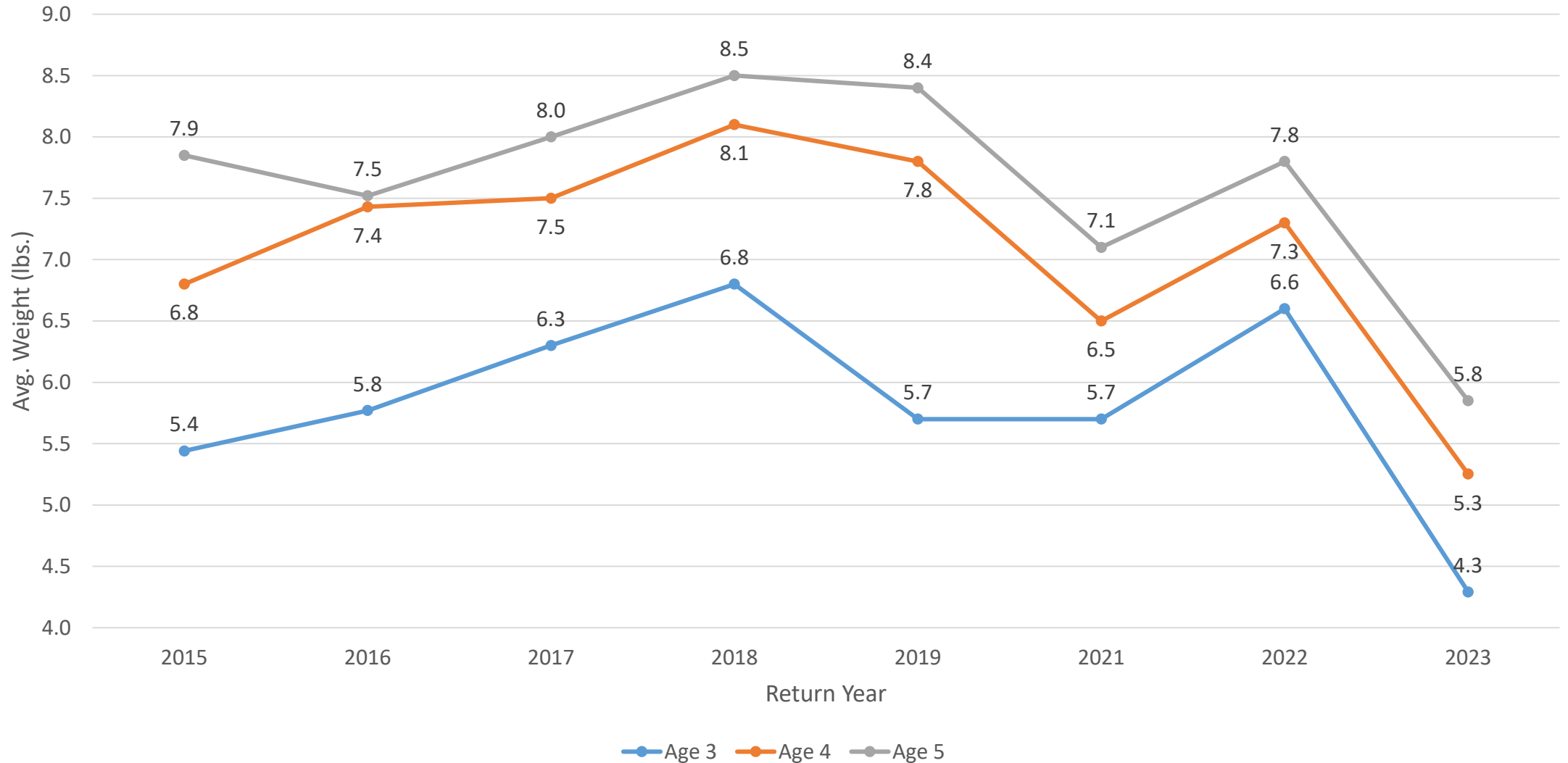
The reduced sockeye harvest was driven largely by Bristol Bay, where the harvest was down 29% from last year's record catch. The pink salmon harvest was down slightly from 2021 in Prince William Sound and Southeast, but up in Kodiak, where four million pinks were harvested last week. The statewide keta harvest has followed an unusual pattern: Preliminary keta data show a single mid-summer harvest peak, rather than separate summer and fall peaks as typical.

2023 Harvest vs. Projection

(Thousands of Fish)

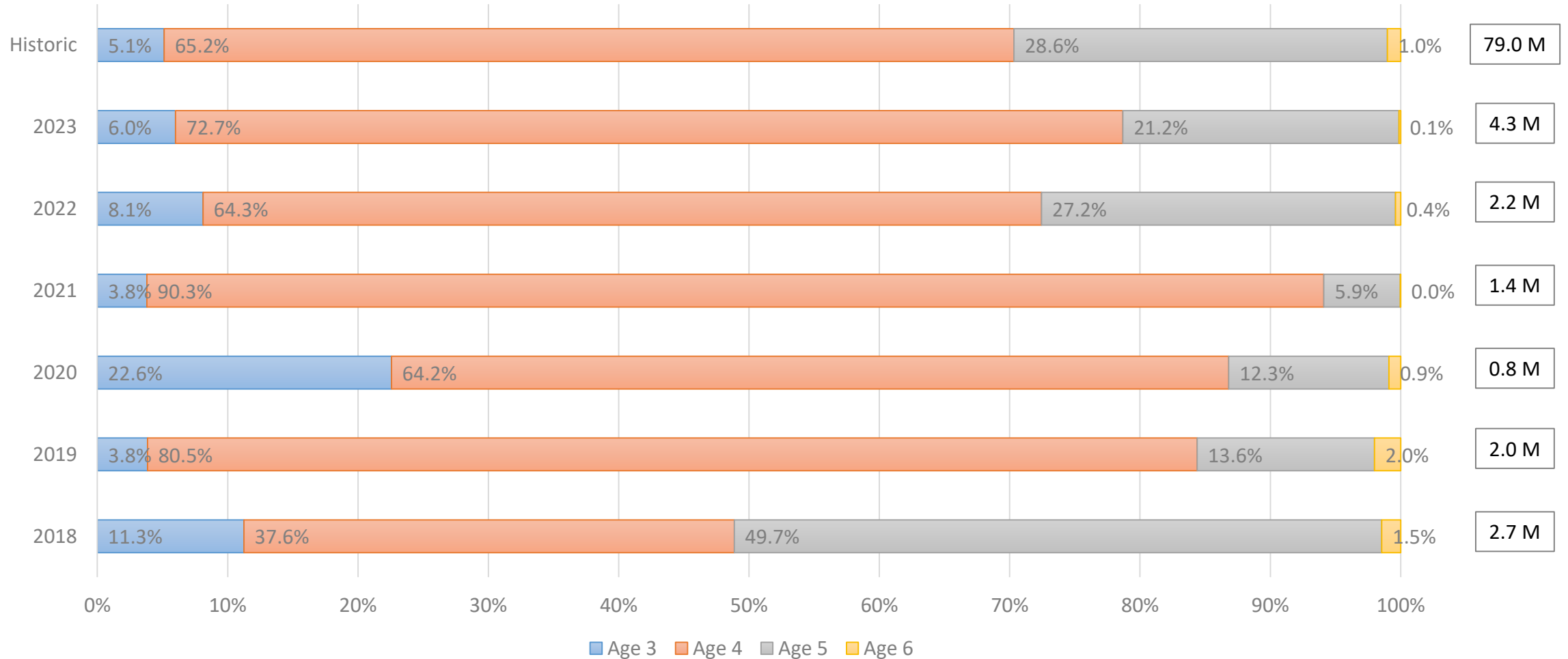
	Harvest	Projection	% Realized
Sockeye	50,212	48,188	104%
Pink	147,633	122,213	121%
Keta	19,387	16,004	121%
Coho	1,760	2,960	59%
Chinook	182	242	75%
Total	219,174	189,607	116%

Chum Average Weights by Age



Chum Age Composition

Chum Age Composition (return year)



Socketeye

2023 Sockeye Return: Totals by Age

	Age-4	Age-5	Total
Actual:	69,200	19,400	88,600
Projected:	97,300	53,500	150,900
% of Projected:	71%	36%	59%

2023 Sockeye Return

	Common Property	Cost Recovery	Broodstock	Total
Actual:	36,400	45,400	6,850	88,600
Projected:	72,400	71,700	6,800	150,900
% of Projected:	50%	63%	101%	59%

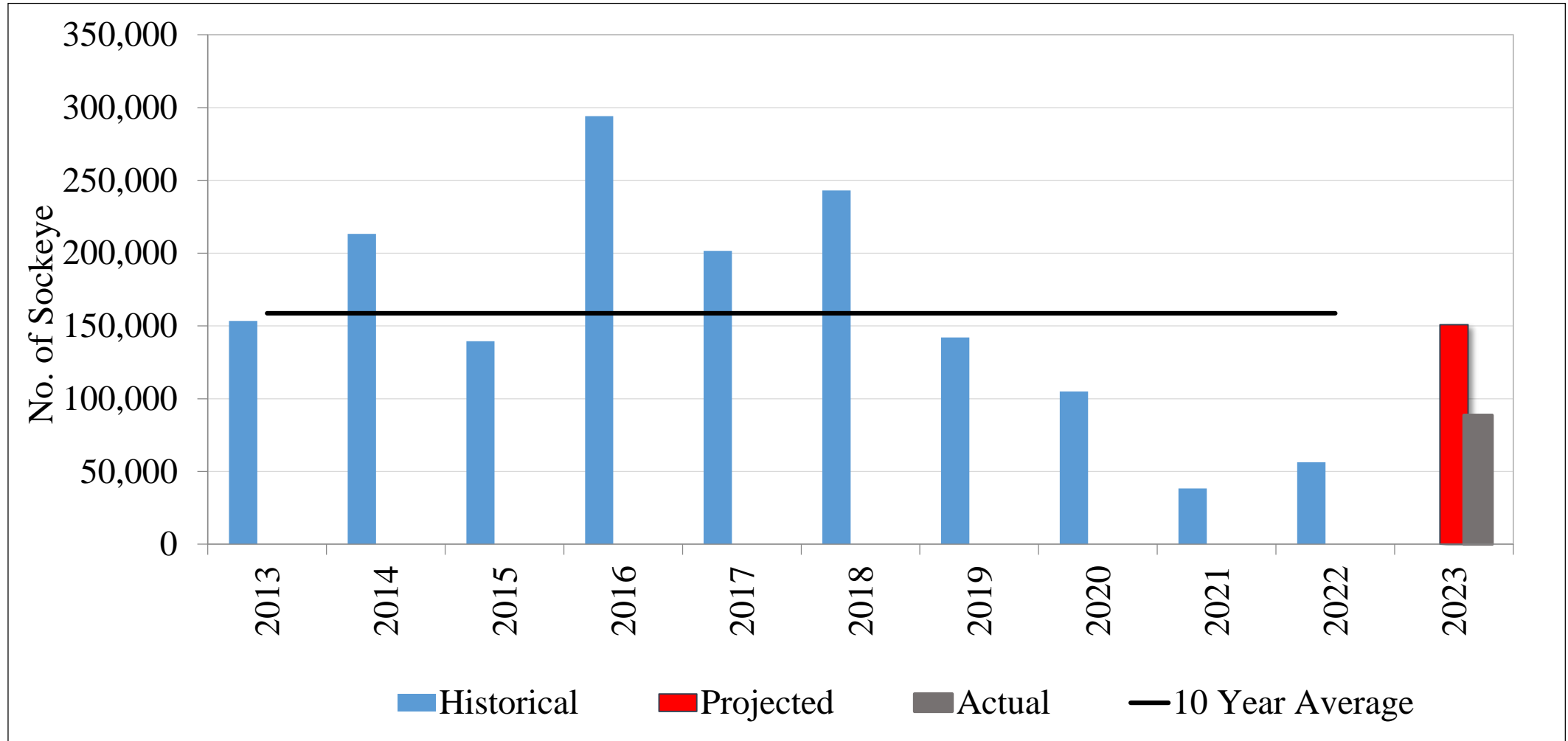
2023 Sockeye Return: Contribution, Cost Recovery, & Harvest Shares

	CP Harvest	DIPAC Contribution	% DIPAC Contribution	Cost Recovery	Total Harvest
District 11 Gillnet	81,600	28,700	35%	45,400	74,100
Other Gillnet	71,200	2,500	4%		2,500
Seine	37,000	5,200	15%		5,200
Broodstock					6,850
Totals	189,800	36,400		45,400	88,600
Harvest Shares		44%		56%	

Sockeye Marine Survival

Broodyear	Age 3	Age 4	Age 5	Total
2016	0.20%	0.93%	0.33%	1.46%
2017	0.11%	1.26%	1.57%	2.94%
2018	0.01%	0.63%	0.17%	0.81%
2019	0.01%	0.75%		0.76%
2020	0.10%			0.10%

2023 Sockeye Return: Actual vs. Projected Return



2023 Sweetheart Sockeye Return Summary

	CP Harvest	Total DIPAC Contribution
District 11 Gillnet	81,600	860
Other Gillnet	71,200	30
Seine	37,000	400
Personal Use	4,400	4,400
Totals	194,200	5,700

Chinook

2023 Chinook Return

Juneau Program (large adults age 5 – 7)					
Troll	Gillnet & Seine	Marine Sport	Sport: Freshwater/Shoreline	Rack, CR, & Escape.	Total
130	380	1,000	3,300	2,600	7,400
				2023 Forecast	4,700
				% of Forecast	158%

Chinook Marine Survival: All Sites

Broodyear	Age 3	Age 4	Age 5	Age 6	Total
2016	0.32%	0.21%	0.64%	0.06%	1.23%
2017	0.02%	0.22%	0.57%	0.04%	0.85%
2018	0.06%	0.12%	0.17%		0.36%
2019	0.00%	0.00%			0.00%
2020	0.00%				0.00%
Historic	0.05%	0.22%	0.62%	0.16%	1.06%

Coho

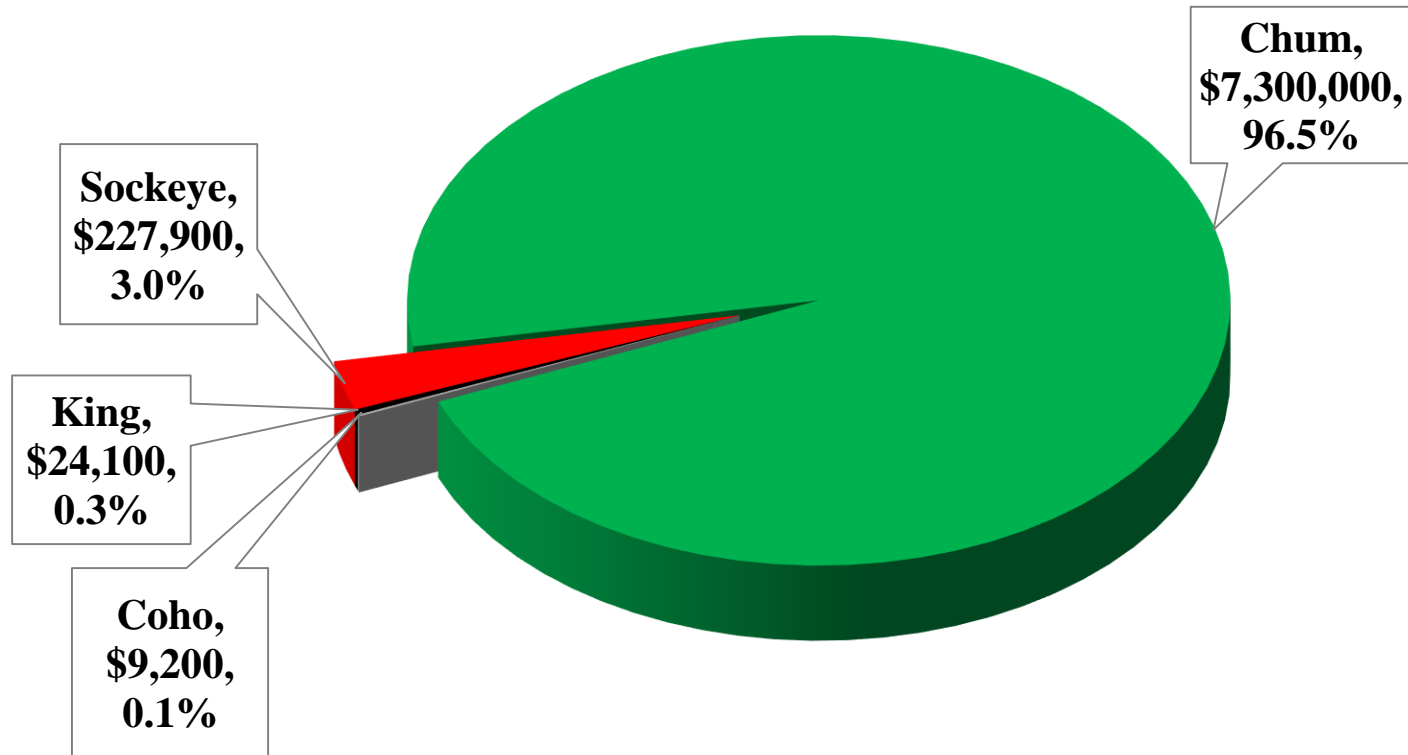
Coho Returns

Troll	Gillnet & Seine	Marine Sport	Gastineau Shoreline	Cost Recovery	Brood & Donations	Total	% Marine Survival
200	1000	30	30	350	80	1,700	0.75%
					2023 Forecast	6,400	2.87%
					% of Forecast	26%	

Estimated Value (\$) Contributions

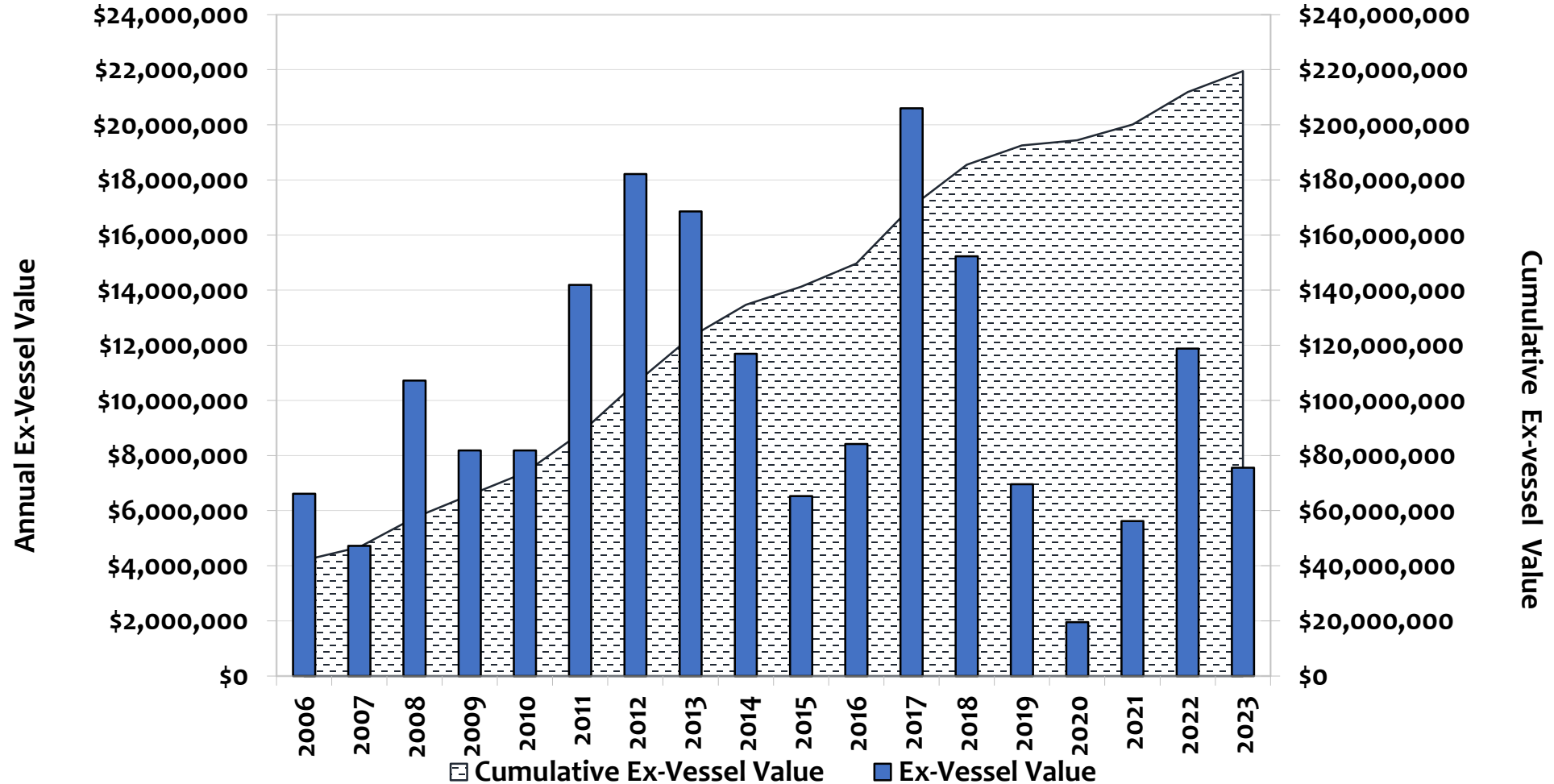
2023 Contributions

2023 Ex-Vessel Values
From DIPAC Salmon Enhancement Projects
Total Value: \$7,561,000



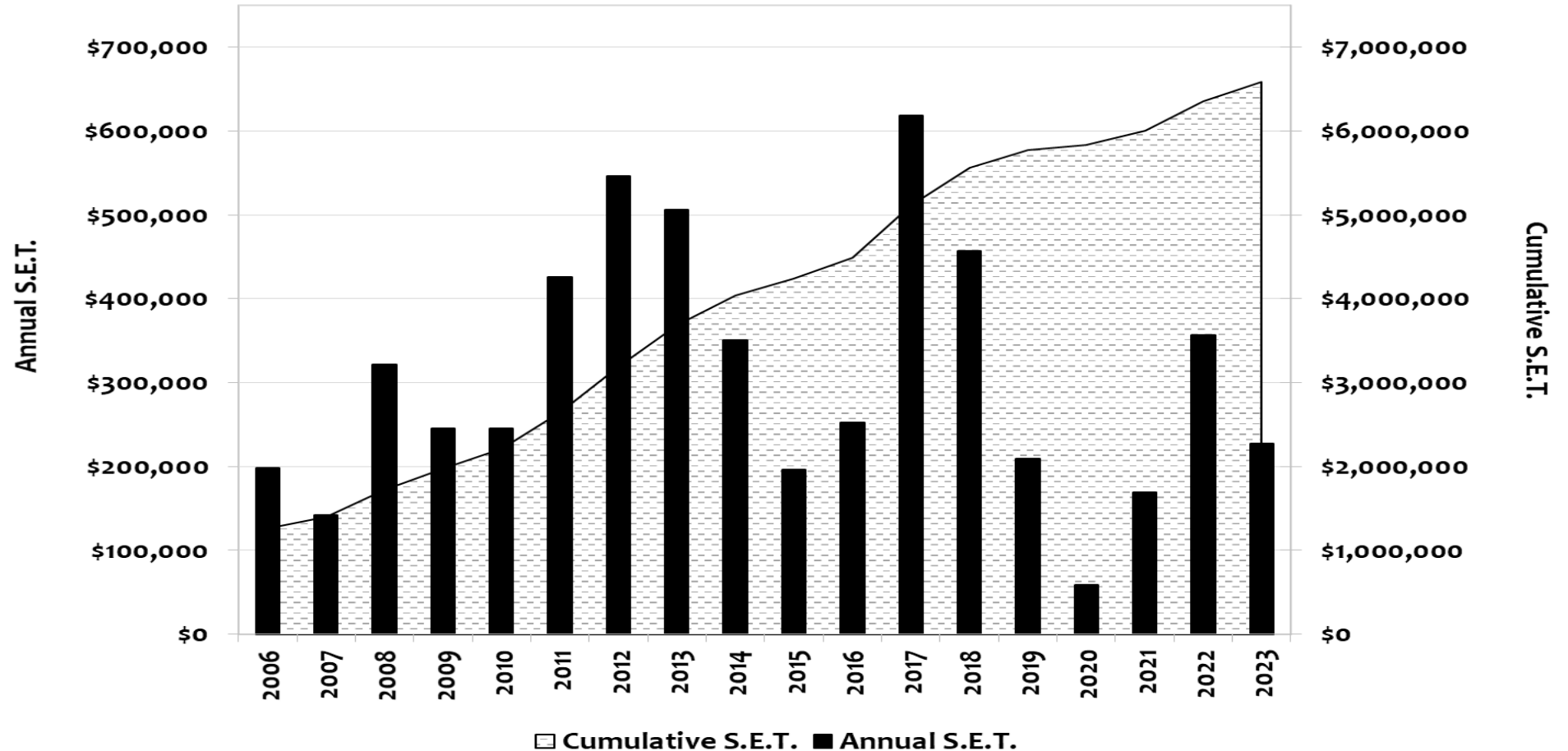
DIPAC Salmon Contributions

Cumulative Ex-Vessel Value: \$219,503,000



Salmon Enhancement Tax on DIPAC Salmon Contributions

Cumulative Enhancement Tax: \$6,585,000



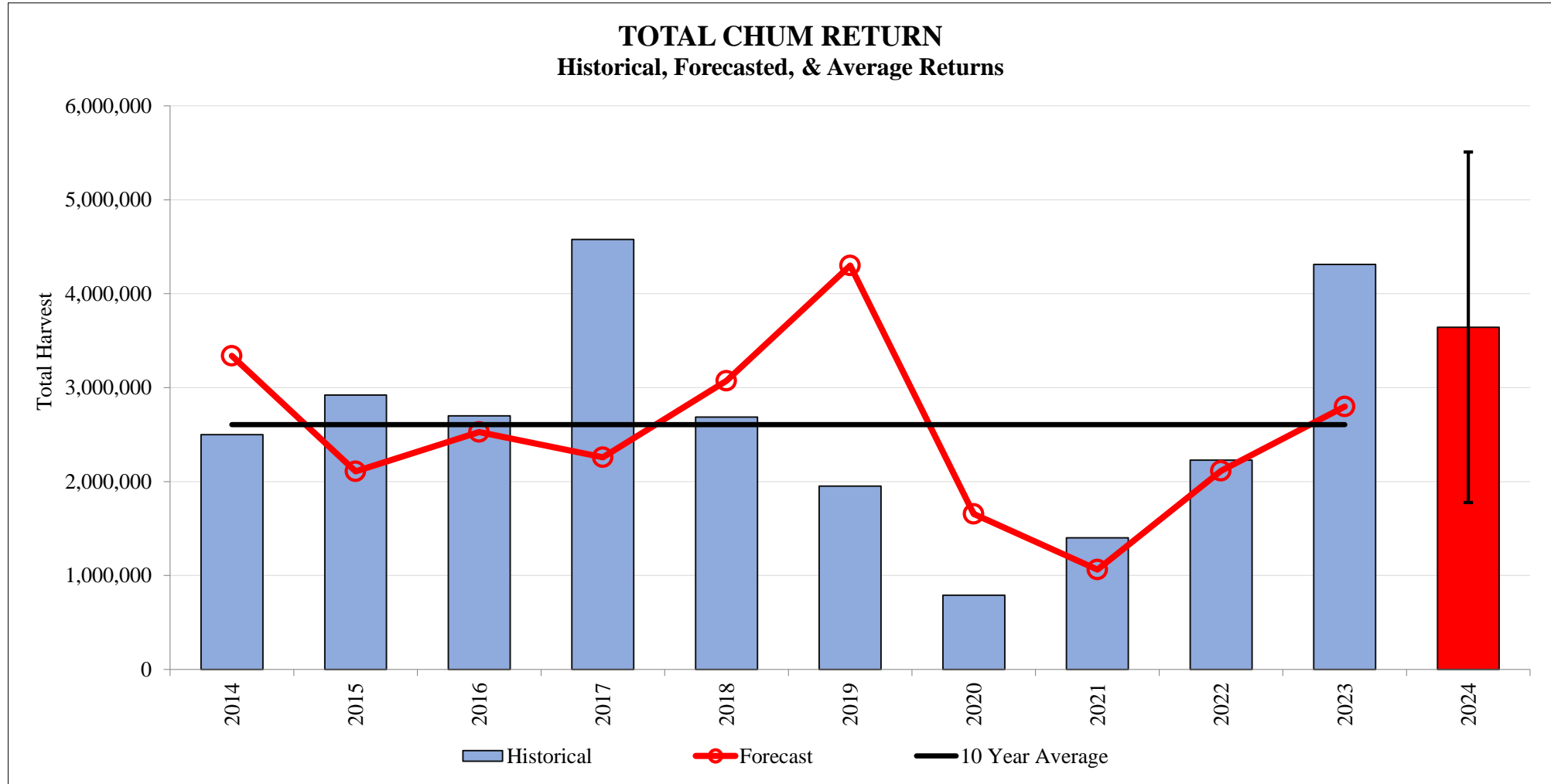
2024 Forecast

2023 Preliminary Chum Forecast

	Low End	Mid Point	High End	Common Property	Cost Recovery	Brood
Taku/Stephens	652,800	1,176,000	2,446,000	615,700	370,700	200,000
Lynn Canal/ Amalga	1,281,000	2,466,000	3,651,000	1,766,000	699,500	
Total	1,933,000	3,642,000	6,098,000	2,381,000	1,070,000	

2024 Chum Forecast

Historical & Projected Returns



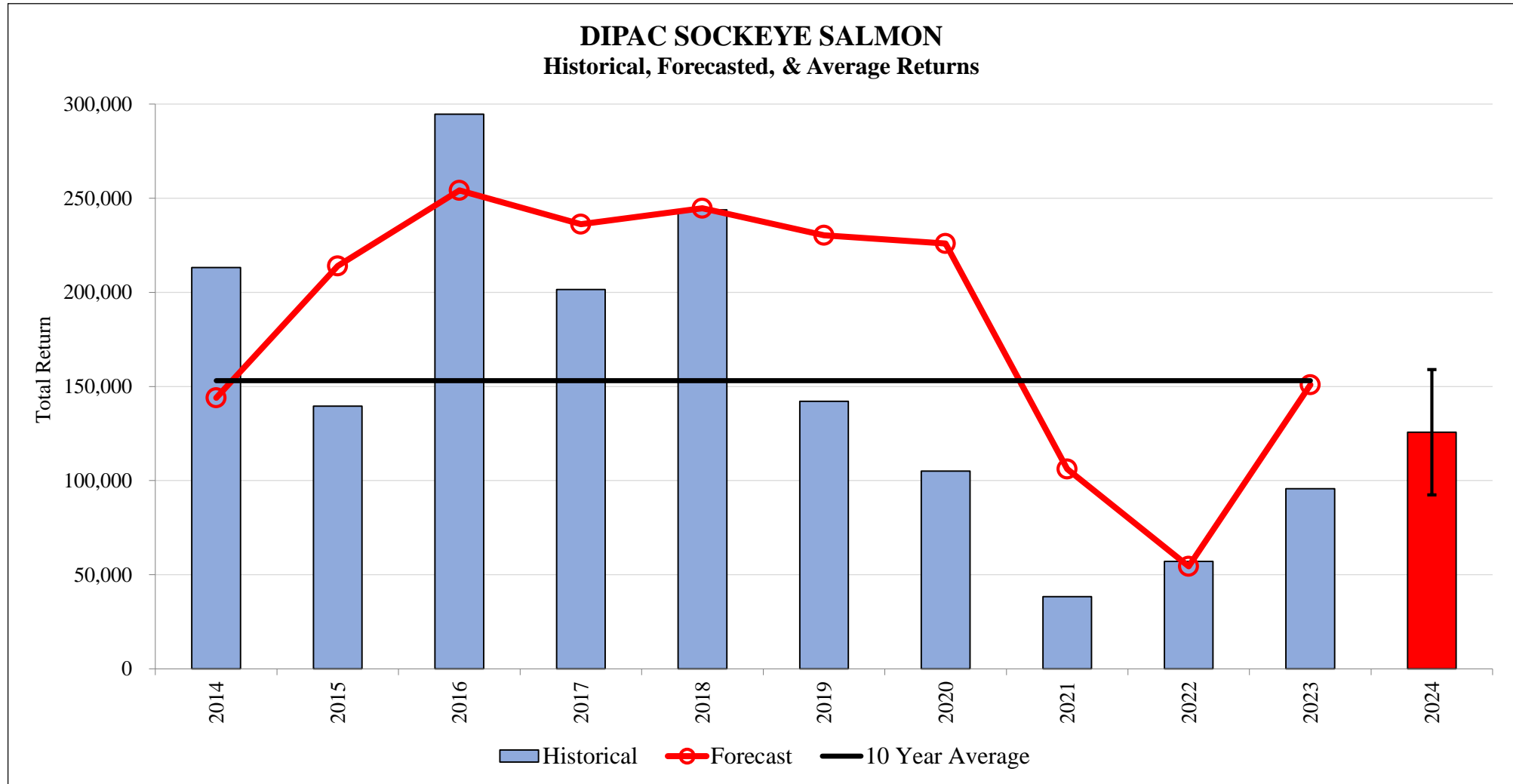
2024 Sockeye Forecast

	Low End	Mid Point	High End
Age 5	40,700	73,500	106,300
Age 4	24,300	52,200	80,100
Total	65,100	125,700	186,400

Harvest Share Goal		Average Harvest Shares	
70% CP:	83,300	51% CP:	59,800
30% CR:	35,700	49% CR:	59,200
Broodstock:	6,800	Broodstock:	6,800

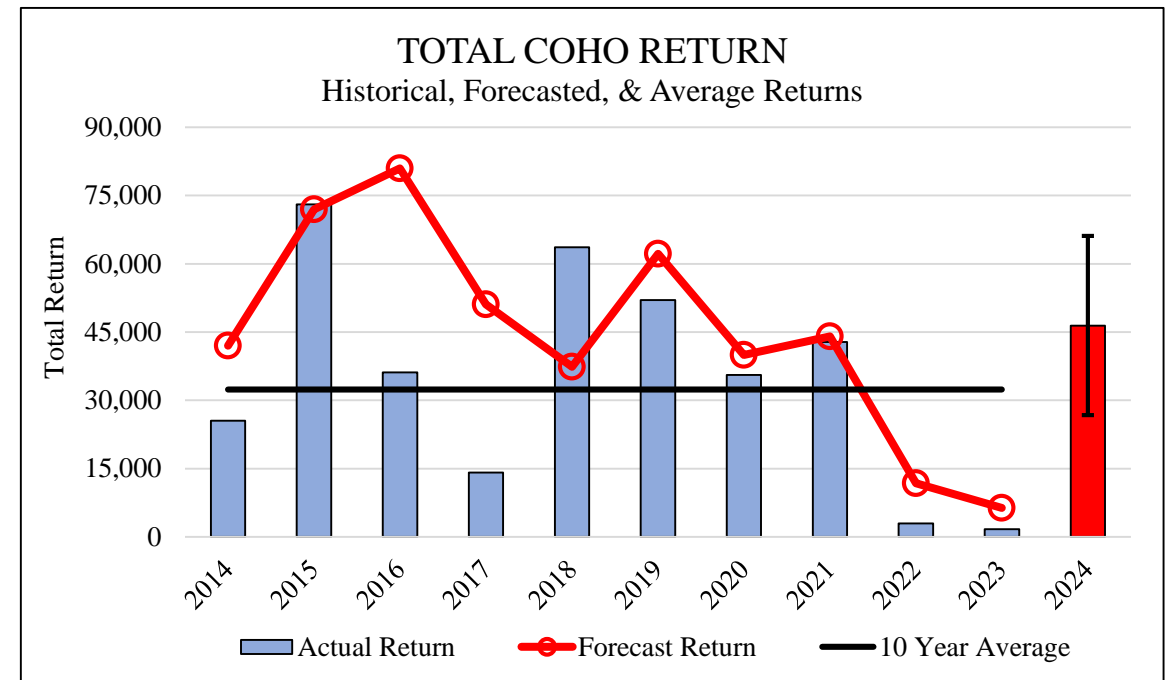
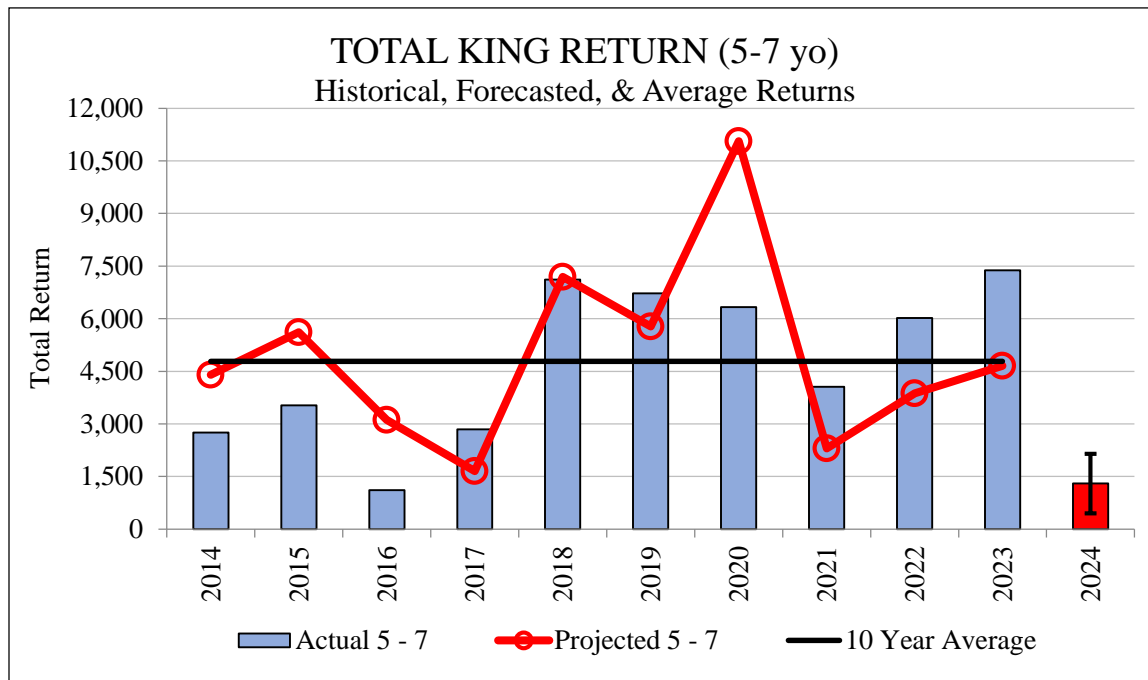
2024 Sockeye Forecast

Historical & Projected Returns



2024 Chinook & Coho Forecast

	Number Returning	Marine Survival
Chinook (large adults, ages 5-7)	1,300	0.08%
Coho	46,400	3.44%





Thank You & Questions