

# 2023 Post Season Review

## Ketchikan Management Area

Purse Seine  
Districts 1-4



Bo Meredith  
Area Management Biologist  
Commercial Fisheries - Ketchikan

# Purse Seine Harvest – Southeast Traditional Harvest Only – no THA's

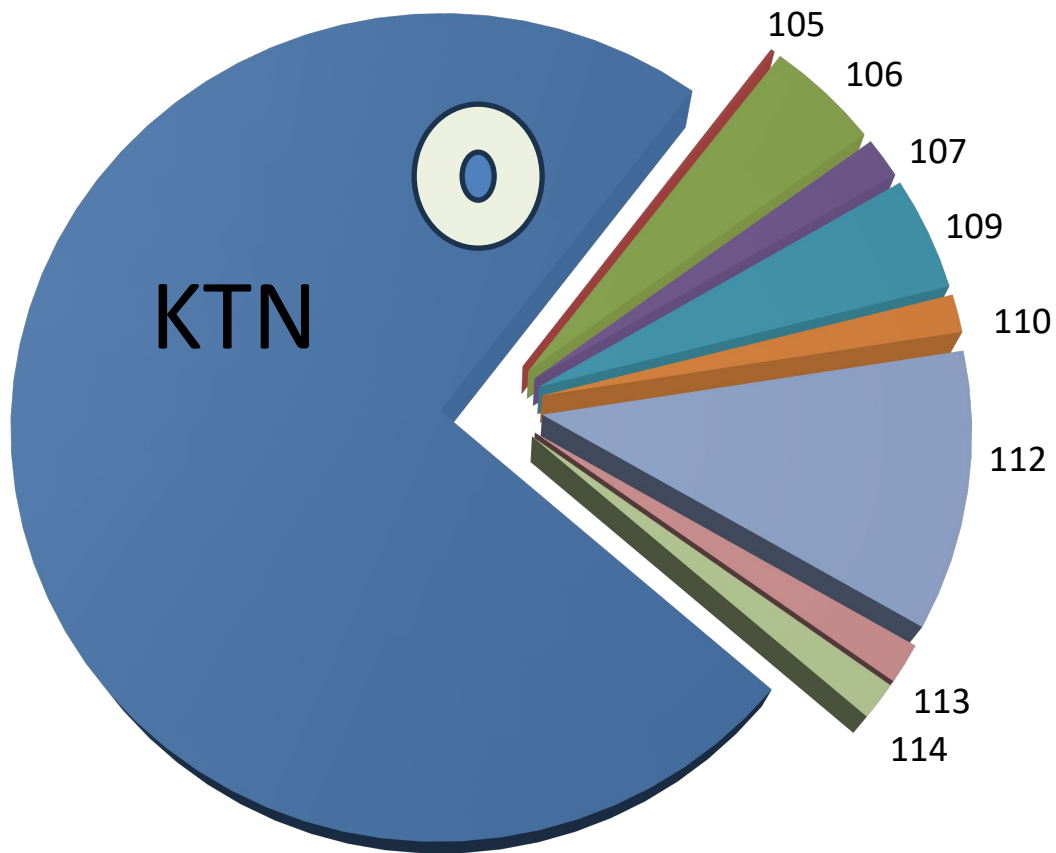
Year	District	Chinook	Sockeye	Coho	Pink	Chum	Total	Number of Permits
2023	101	448	147,355	45,377	10,531,342	1,144,913	11,869,435	121
2023	102	510	67,084	39,116	8,637,231	1,303,305	10,047,246	127
2023	103	173	10,513	28,128	3,558,043	172,411	3,769,268	62
2023	104	7,076	162,277	70,924	7,008,928	457,840	7,707,045	70
2023	105		239	403	209,520	8,978	219,140	4
2023	106	9	20,710	11,159	1,210,277	122,344	1,364,499	28
2023	107	53	14,168	4,000	2,201,336	262,233	2,481,790	48
2023	109	97	4,109	11,099	1,680,366	49,701	1,745,372	38
2023	110	5	4,575	3,699	792,194	18,903	819,376	27
2023	112	128	38,160	26,980	5,583,158	225,624	5,874,050	74
2023	113	202	17,190	3,868	1,580,332	605,579	2,207,171	35
2023	114	14	7,488	3,609	1,340,100	60,847	1,412,058	34
Total		8,715	493,868	248,362	44,332,827	4,432,678	49,516,450	207

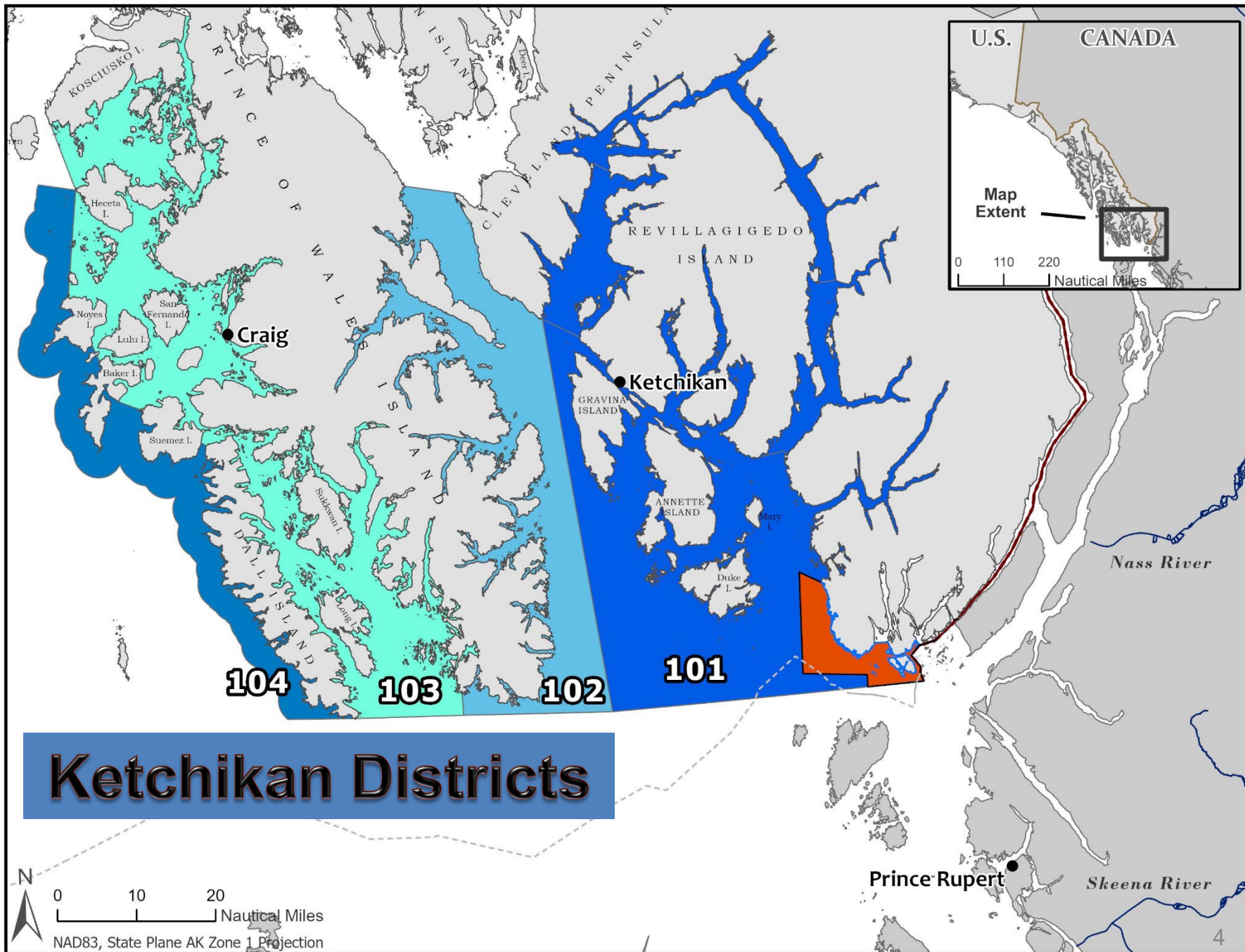
Total boats Ketchikan = 169

Total boats all Southeast = 207

# Southeast Alaska Purse Seine Traditional Pink Salmon Harvest by District - 2023

Traditional Purse Seine Pink Salmon Harvest by District - 2023



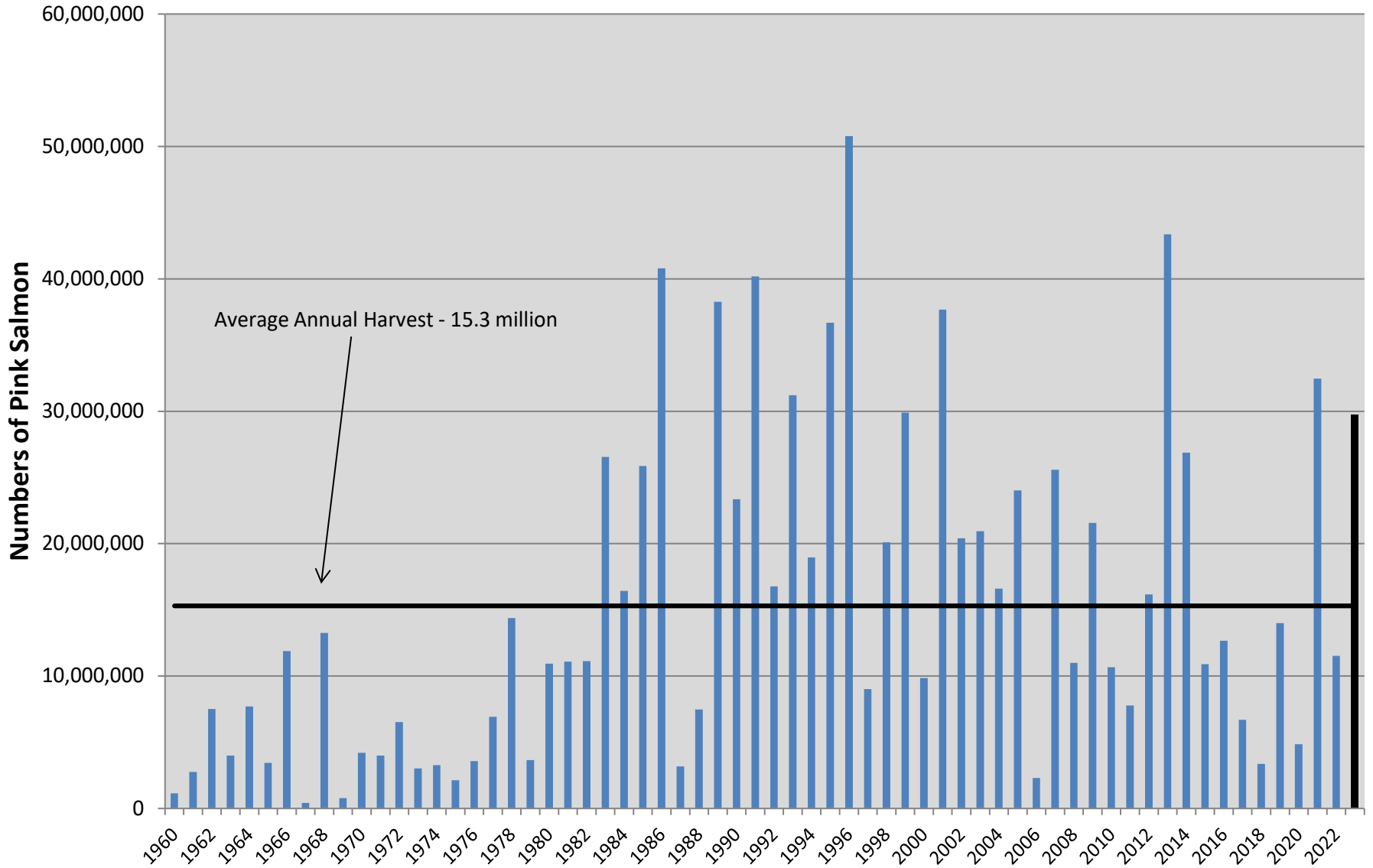


## 2023 Ketchikan Area Commercial Net Harvests

### Purse Seine and Gillnet Common Property Fisheries - Districts 1-4

Fishery	Chinook	Sockeye	Coho	Pink	Chum	Totals
PS 101	448	147,355	45,377	10,531,342	1,144,913	11,869,435
PS 102	510	67,084	39,116	8,637,231	1,303,305	10,047,246
PS 103	173	10,513	28,128	3,558,043	172,411	3,769,268
PS 104	7,076	162,277	70,924	7,008,928	457,840	7,707,045
GN 101	944	23,298	21,865	156,538	418,034	620,679
Carroll THA GN	2,813	1		7	7	2,828
Carroll THA SN	4,024	3	2	58	9	4,096
Neet Bay THA GN	3,016	3		47	280	3,346
Neets Bay THA PS	2,307	6	13	1,368	20,503	24,197
Nakat THA GN	104	1,667	6,995	23,623	352,619	385,008
Kendrick THA PS	16	2,371	1,138	65,946	244,789	314,260
Annette Island GN	865	5,579	17,759	131,185	116,341	271,729
Annette Island PS	593	8,499	5,400	1,339,276	143,363	1,497,131
<b>Total</b>	<b>22,889</b>	<b>428,656</b>	<b>236,717</b>	<b>31,453,592</b>	<b>4,374,414</b>	<b>36,516,268</b>

# Ketchikan Management Area Traditional Purse Seine Pink Salmon Harvest, 1960-2023

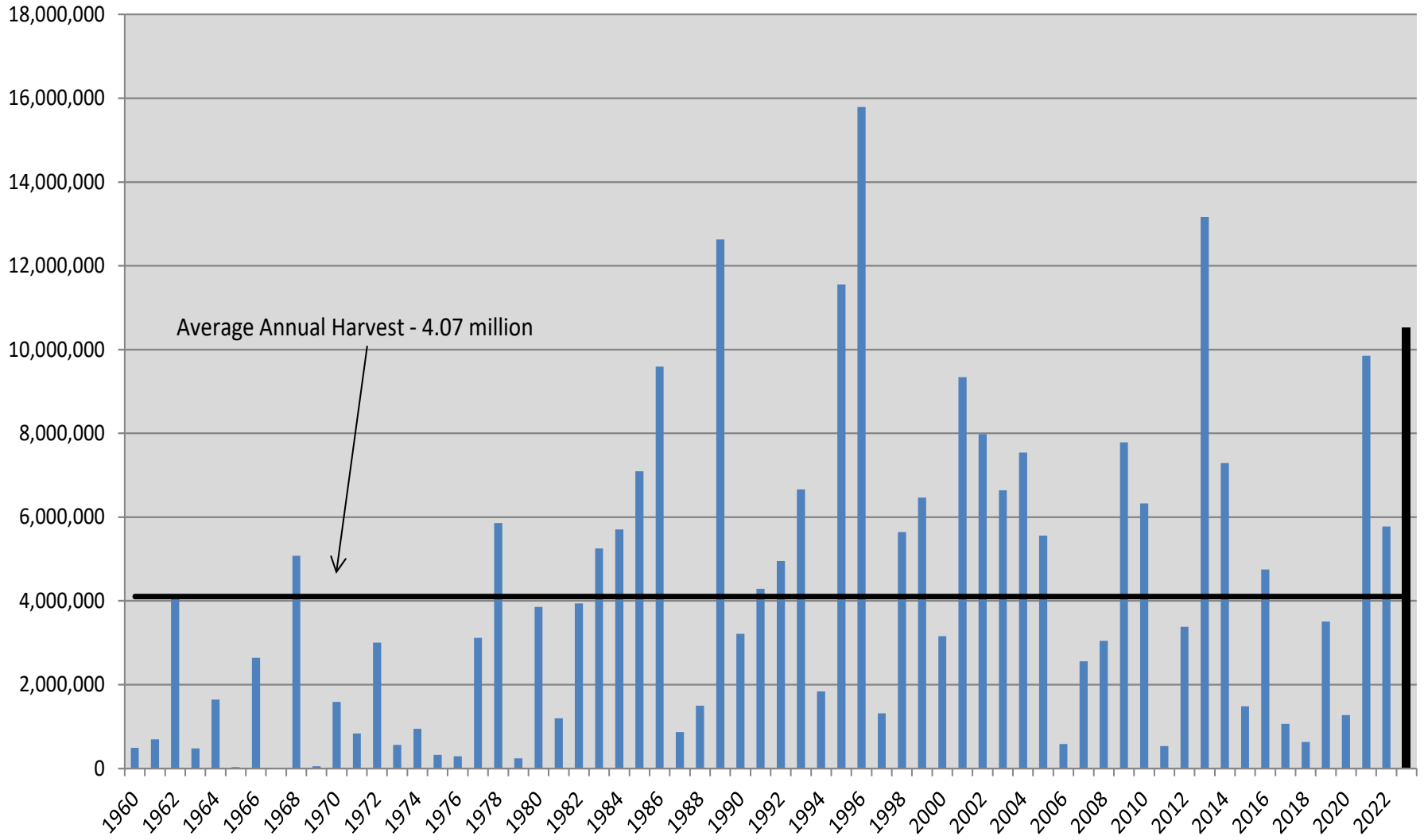


# 2023 District 1 Purse Seine – Harvest by Opening

Opening	Chinook	Sockeye	Coho	Pink	Chum	Boats	Hours
27	0	1,410	711	51,228	52,648	31	15
27B	4	727	666	96,912	57,582	28	15
28	13	1,663	1,024	194,521	79,739	45	15
28B	45	7,220	1,705	203,642	136,196	67	15
29	27	5,574	1,737	259,767	103,064	57	15
29B	0	3,988	1,604	502,137	101,244	48	15
30	44	8,229	2,125	593,074	85,628	61	15
30B	52	18,532	4,700	1,492,641	142,744	62	39
31	11	13,633	2,551	1,006,907	80,203	43	39
31B	192	41,045	2,576	1,101,114	86,555	48	39
32	21	16,361	5,386	1,572,920	83,404	52	39
32B	32	18,296	4,962	1,363,553	65,803	60	39
33	7	7,708	6,153	1,157,932	37,205	55	39
34	0	2,333	5,054	654,301	21,928	41	39
34B/35	0	636	4,423	280,693	10,970	9	78
<b>Total</b>	<b>448</b>	<b>147,355</b>	<b>45,377</b>	<b>10,531,342</b>	<b>1,144,913</b>	<b>121</b>	<b>456</b>

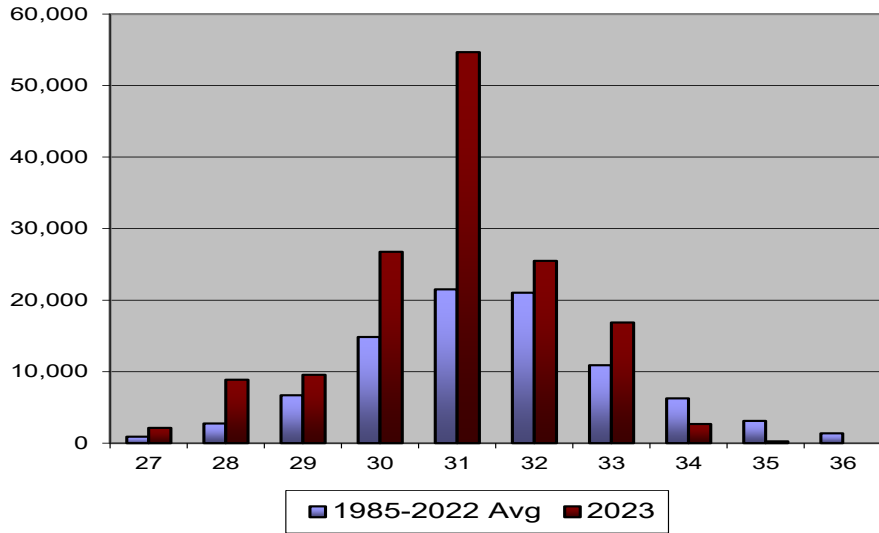
- Pinks ranked 5<sup>th</sup> of 63 since 1960.
- 10-year avg = 4.0 million pinks.
- Hugh Smith restrictions persisted from SW 29-33. Hugh Smith final esc of 1,689 is less than a quarter of the lower end of the 8K escapement goal.
- Minor die offs throughout the district.

# District 1 Traditional Purse Seine Pink Salmon Harvest 1960-2023

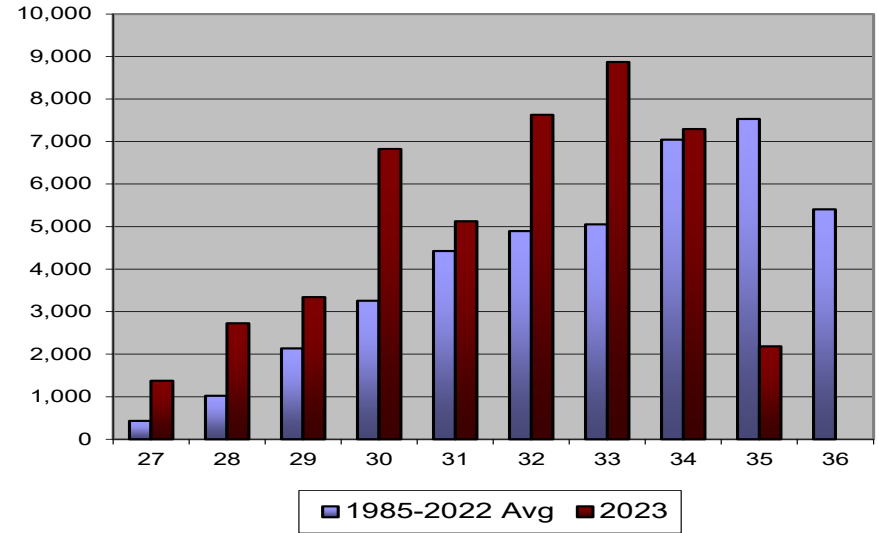




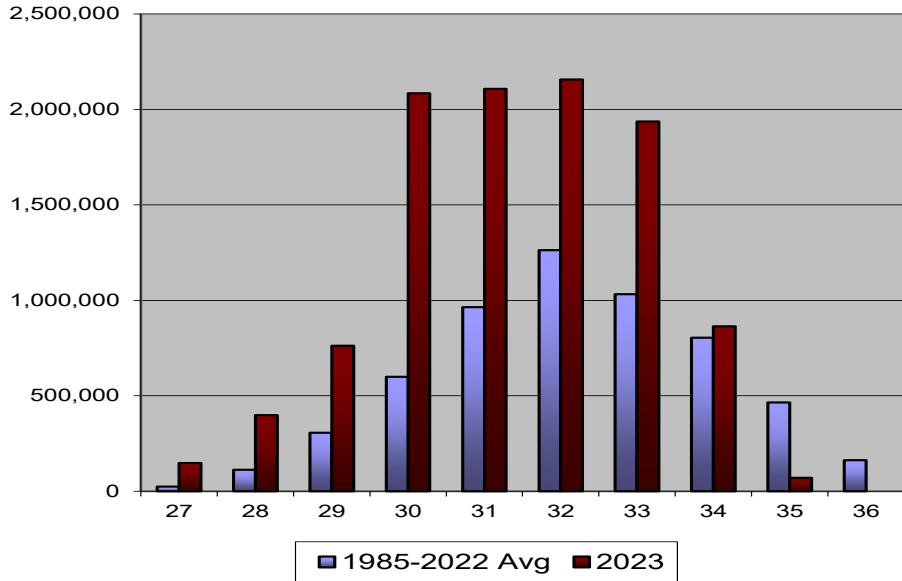
**District 1 Purse Seine Weekly Harvest  
1985-2022 Avg vs 2023 - sockeye**



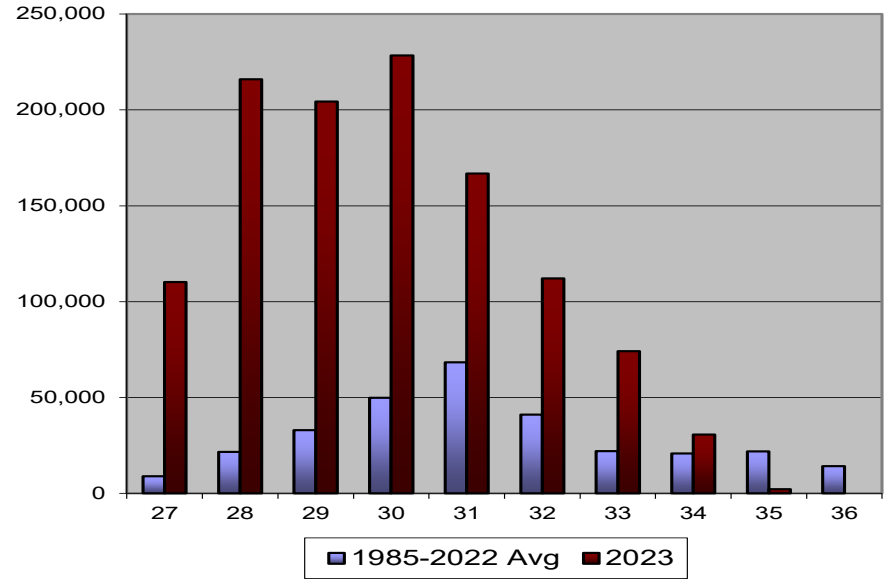
**District 1 Purse Seine Weekly Harvest  
1985-2022 Avg vs 2023 - coho**



**District 1 Purse Seine Weekly Harvest  
1985-2022 Avg vs 2023 - pink**



**District 1 Purse Seine Weekly Harvest  
1985-2022 Avg vs 2023 - chum**

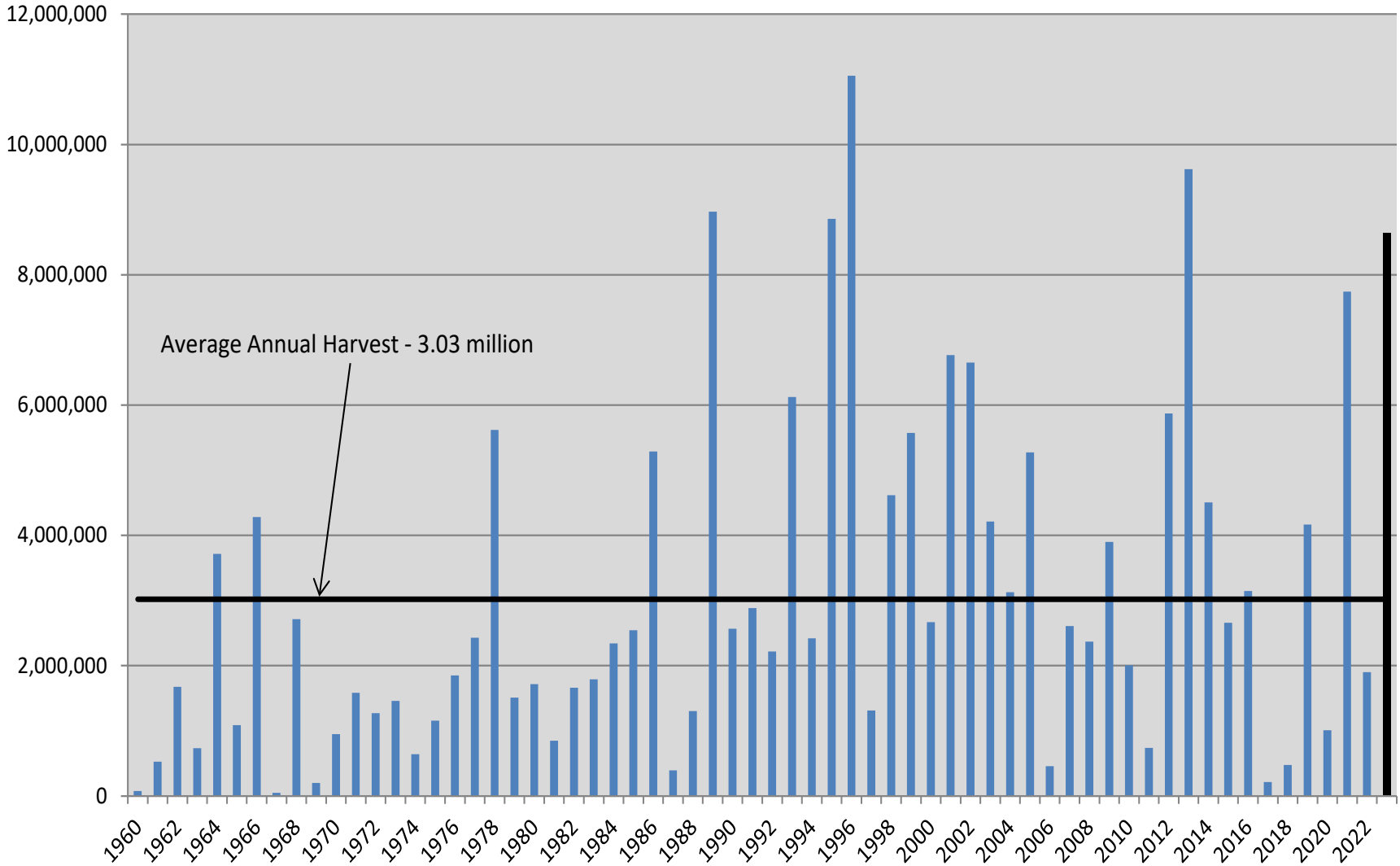


# 2023 District 2 Purse Seine – Harvest by Opening

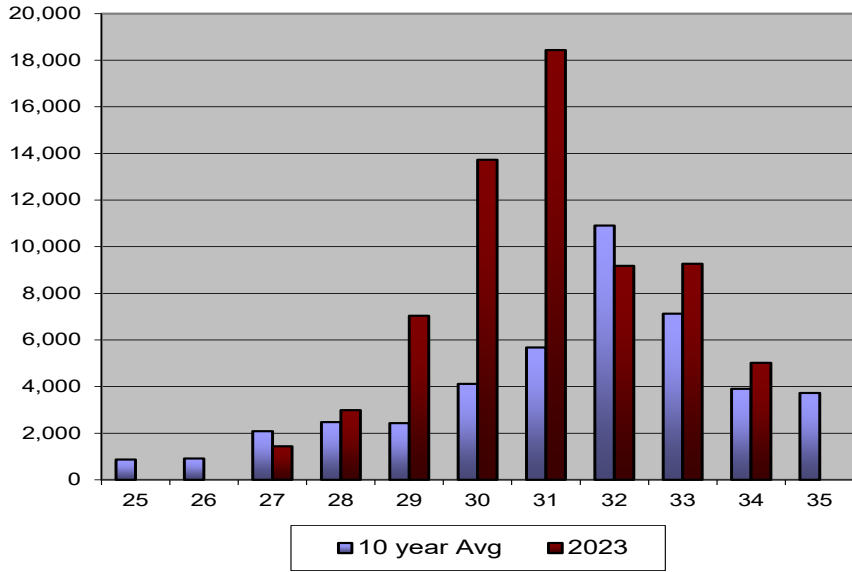
Opening	Chinook	Sockeye	Coho	Pink	Chum	Boats	Hours
27	4	493	903	5,177	127,572	35	15
27B	1	949	1,233	7,695	83,823	55	15
28	18	1,064	872	8,467	83,615	28	15
28B	15	1,928	1,164	7,170	91,657	20	15
29	25	3,011	1,933	46,315	170,944	34	15
29B	19	4,027	1,910	125,406	143,453	39	15
30	32	3,367	1,612	119,906	142,806	27	15
30B	61	10,361	3,537	1,095,872	111,611	38	39
31	54	10,443	5,655	1,234,737	93,119	42	39
31B	173	7,985	4,262	1,584,577	61,717	42	39
32	93	6,025	5,001	1,424,464	46,885	45	39
32B	4	7,160	1,720	714,028	40,637	27	39
33	11	5,259	3,862	981,623	56,179	46	39
34	0	3,820	3,291	893,043	29,890	33	39
34B	0	1,192	2,161	388,751	19,397	16	39
35	0	0	0	0	0	0	39
<b>Total</b>	<b>510</b>	<b>67,084</b>	<b>39,116</b>	<b>8,637,231</b>	<b>1,303,305</b>	<b>127</b>	<b>456</b>

- Pinks rank 5<sup>th</sup> out of 63 since 1960.
- 10 yr avg = 3.0 million
- Escapements extremely strong. Too strong? Chomly was incredible and there were 4 mil pinks harvested in subdistrict 102-50.
- No fall chum fishery. Fall chum escapements ended up well above the upper bound of SEG.
- Minor die offs throughout the district.

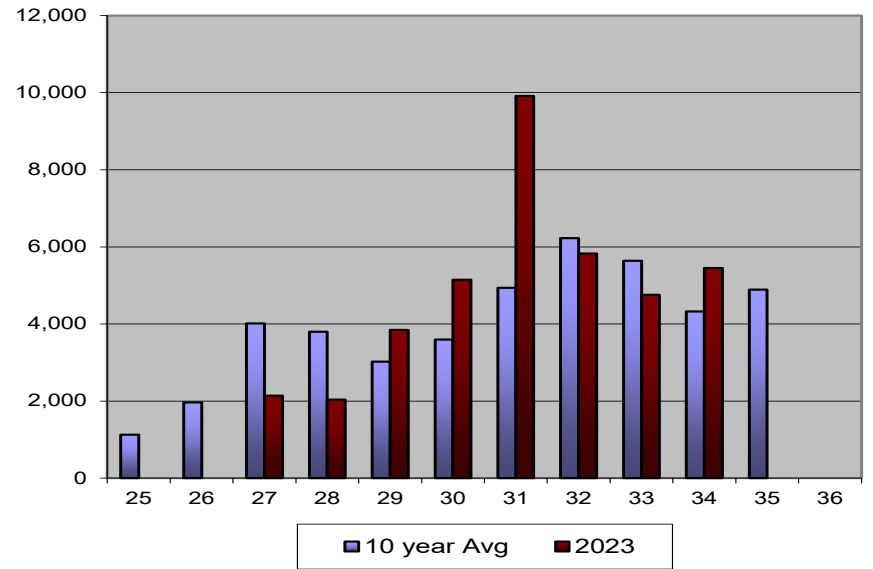
# District 2 Traditional Purse Seine Pink Salmon Harvest 1960-2023



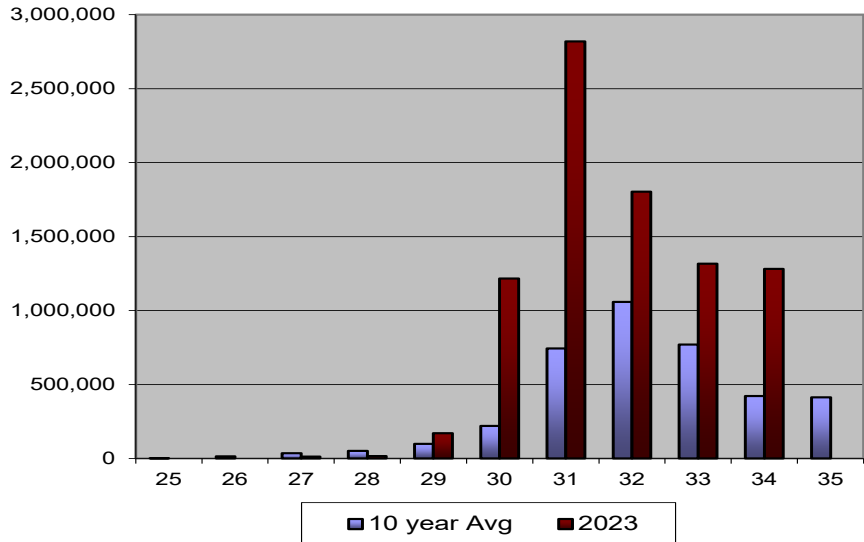
**District 2 Purse Seine Weekly Harvest  
10 year avg vs 2023 -sockeye**



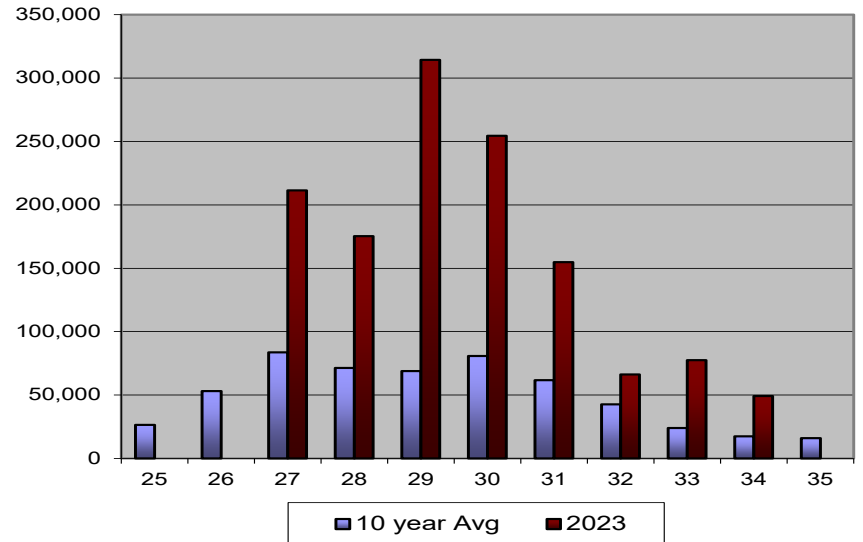
**District 2 Purse Seine Weekly Harvest  
10 year avg vs 2023 -coho**



**District 2 Purse Seine Weekly Harvest  
10 year avg vs 2023 -pink**



**District 2 Purse Seine Weekly Harvest  
10 year avg vs 2023 -chum**

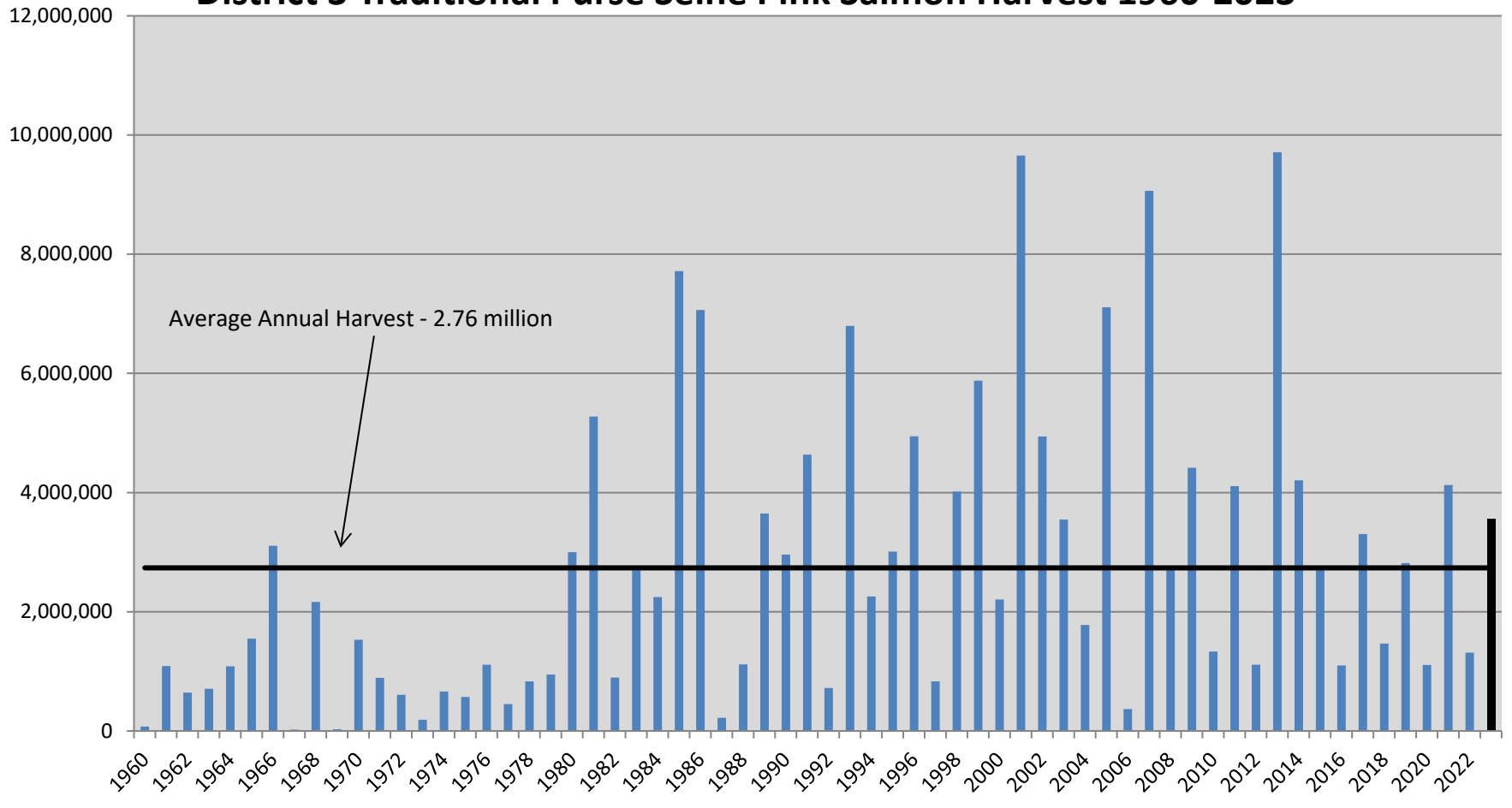


# 2023 District 3 Purse Seine – Harvest by Opening

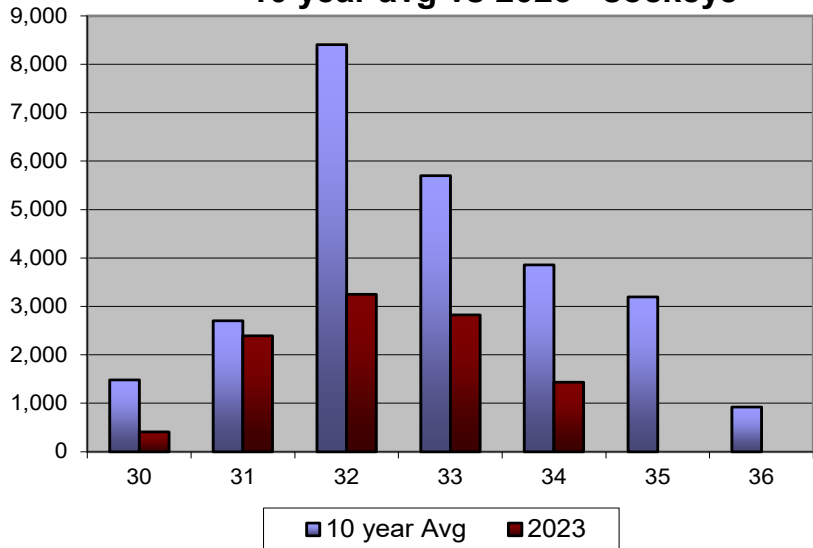
Opening	Chinook	Sockeye	Coho	Pink	Chum	Boats	Hours
29/29B	4	209	528	2,711	24,000	6	30
30/30B	8	409	564	31,306	19,973	5	54
31	0	574	632	60,758	15,766	5	39
31B	131	1,819	2,609	427,653	22,787	18	39
32	10	2,133	4,654	638,143	21,568	22	39
32B	20	2,132	6,066	711,450	27,408	31	39
33	0	1,804	6,061	793,782	17,298	30	39
34	0	1,199	6,429	653,938	17,844	40	39
34B	0	234	585	238,302	5,767	7	39
35	0	0	0	0	0	0	39
<b>Total</b>	<b>173</b>	<b>10,513</b>	<b>28,128</b>	<b>3,558,043</b>	<b>172,411</b>	<b>62</b>	<b>396</b>

- Pinks rank 20<sup>th</sup> out of 63.
- 10 yr avg = 2.7 million
- Pink salmon abundance not as high as D 1 and 2.
- Low effort most of the summer.
- Minor die offs throughout the district.

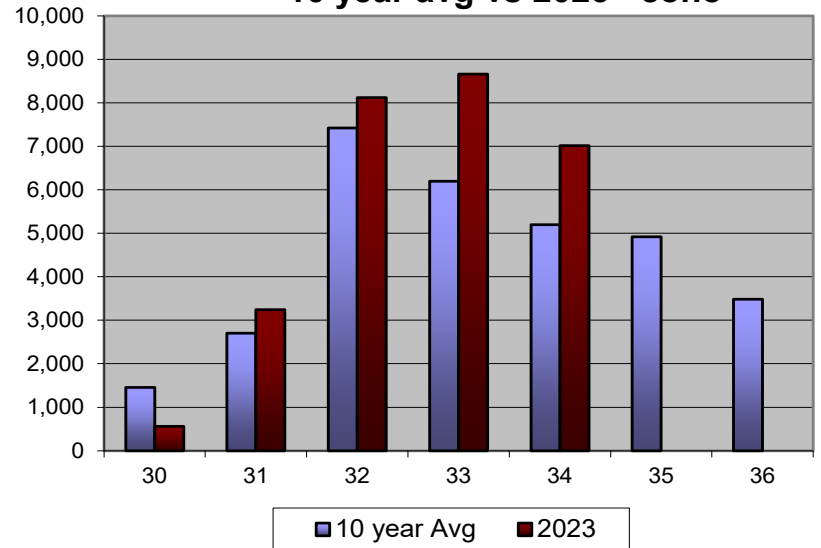
# District 3 Traditional Purse Seine Pink Salmon Harvest 1960-2023



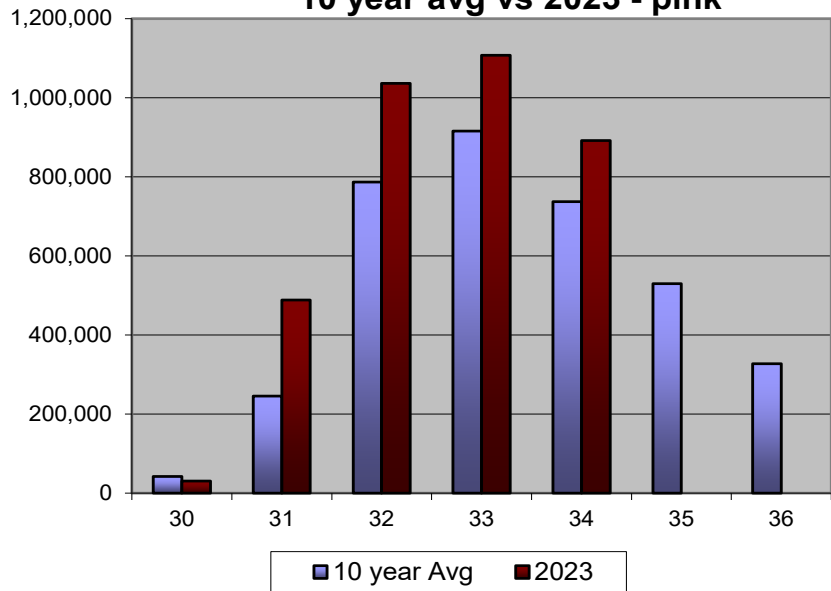
**District 3 Purse Seine Weekly Harvest  
10 year avg vs 2023 - sockeye**



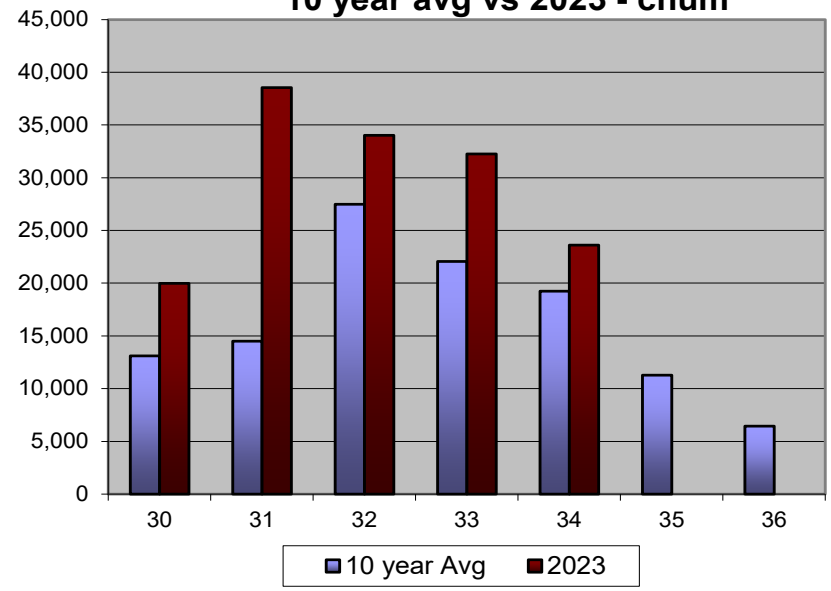
**District 3 Purse Seine Weekly Harvest  
10 year avg vs 2023 - coho**



**District 3 Purse Seine Weekly Harvest  
10 year avg vs 2023 - pink**



**District 3 Purse Seine Weekly Harvest  
10 year avg vs 2023 - chum**



The District 4 Purse Seine fishery is managed prior to statistical week 31 to achieve 2.45% of the Annual Allowable Harvest (AAH) of the combined Nass/Skeena sockeye run in that year.

- The AAH is calculated as the combined total run of adult Nass and Skeena sockeye salmon in that year minus the combined Nass and Skeena escapement target of 1.1 million fish or the actual in-river escapement; whichever is less.
- The total run calculation includes the catch of Nass and Skeena sockeye in the boundary area fisheries and the escapement to the Nass and Skeena rivers. The cumulative catch includes sockeye salmon in the Alaskan Districts of 101-108 net fisheries, including Annette Island, and Canadian areas 1, 3, 4 and 5 net fisheries plus Canadian in-river fisheries.

For 2023:

- Skeena preseason forecast of 3.19M
- Nass preseason forecast of 459K
- Combined preseason forecast of 3.65 million
  - Estimated pre-week 31 AAH of 62.5K Canadian sockeye
  - Preliminary post-season AAH will be ~38K.

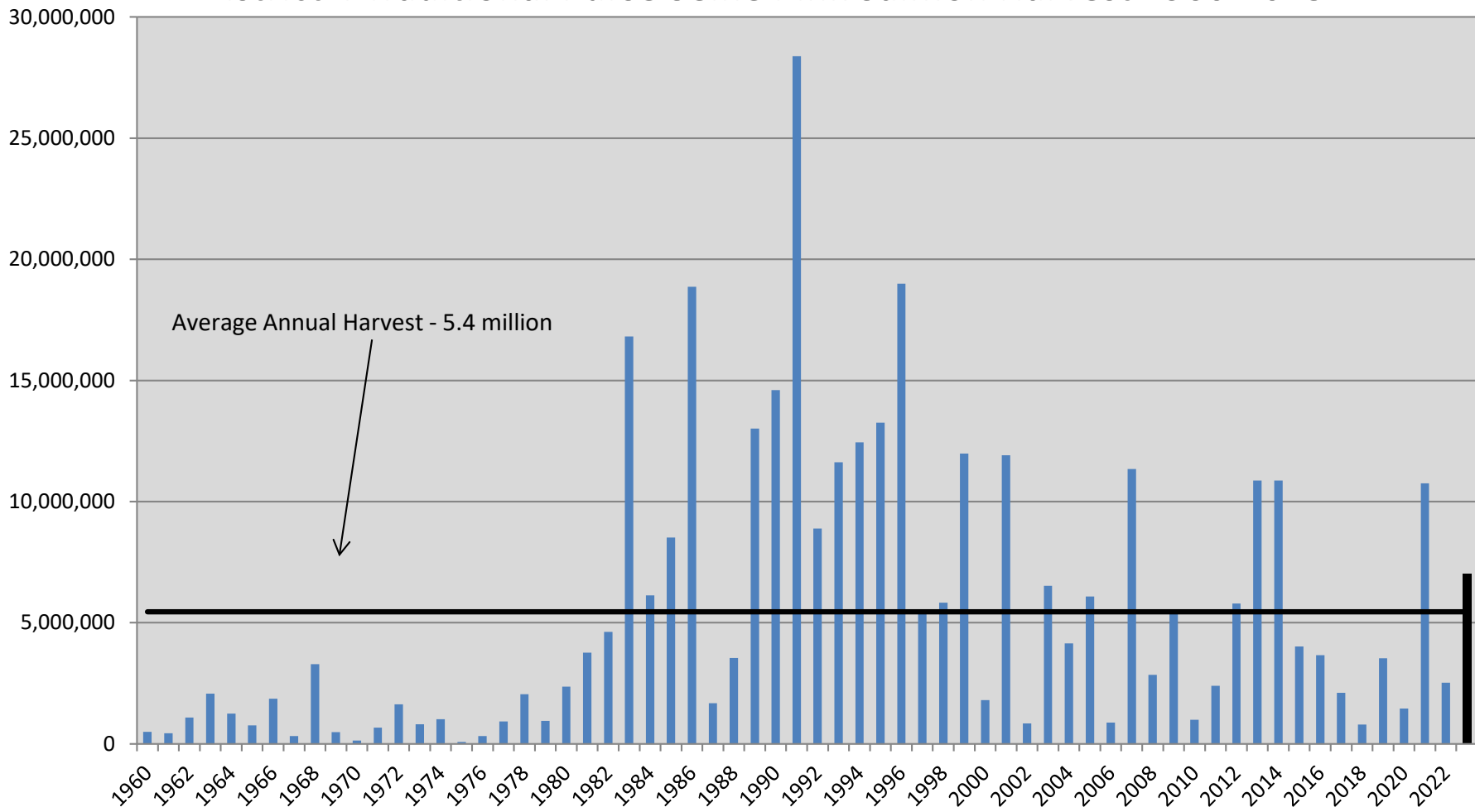


# 2023 District 4 Purse Seine – Harvest by Opening

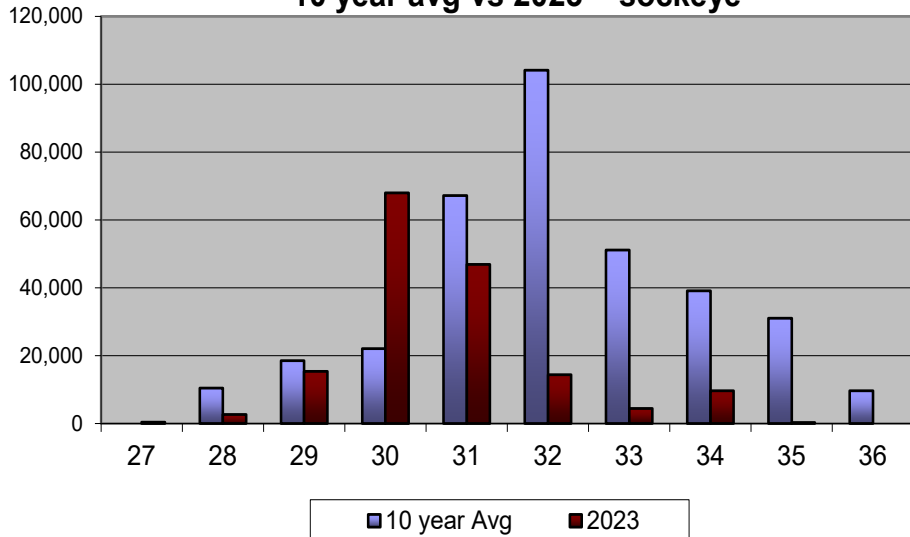
	Opening	Chinook	Sockeye	Coho	Pink	Chum	Boats	Hours
Treaty Period	27	3	440	700	879	6,255	6	8
	28	2	1,463	654	1,591	11,515	6	15
	28B	0	1,196	2,021	7,547	12,908	6	15
	29	21	2,841	2,908	83,156	25,598	7	15
	29B	31	12,581	8,711	231,462	59,615	28	15
	30	51	21,734	11,437	765,766	64,893	31	15
	30B	132	30,213	6,020	1,052,450	42,890	34	12
30C	66	16,083	4,229	627,313	29,586	32	12	
	31	63	25,402	10,486	2,021,440	97,702	54	39
	31B	6,686	21,490	7,870	940,094	48,309	39	39
	32	19	12,398	7,299	546,269	26,803	18	39
	32B	1	2,671	2,076	159,076	6,440	8	39
	33	1	3,801	2,503	274,225	9,530	7	39
	34	0	5,663	2,396	213,040	8,875	12	39
	34B/35	0	4,301	1,614	84,620	6,921	6	78
	<b>Total</b>	<b>7,076</b>	<b>162,277</b>	<b>70,924</b>	<b>7,008,928</b>	<b>457,840</b>	<b>70</b>	<b>419</b>

- Pre-week 31 sockeye catch = 86,551 Approx 51K Canadian
- D4 was open for one 8-hour opening in week 27, two 15-hour openings in week 28, two 15-hour openings in week 29, and one 15-hour and two 12-hour openings in week 30 for a total of 107 hours. Avg. hours is 59.
- We will be approx. 15K sockeye over the AAH.
- The pink salmon harvest in SW 30 was the highest on record and more than double the next highest of 1.12 million in 1989.

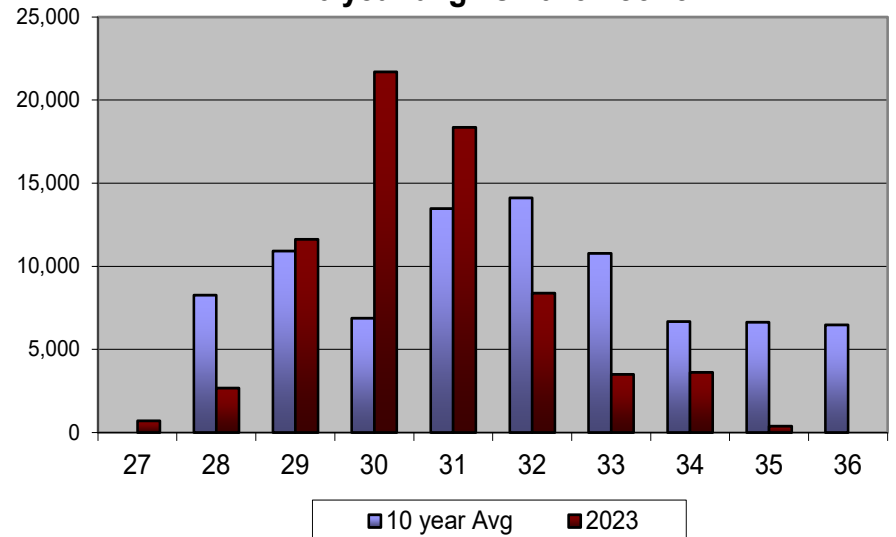
# District 4 Traditional Purse Seine Pink Salmon Harvest 1960-2023



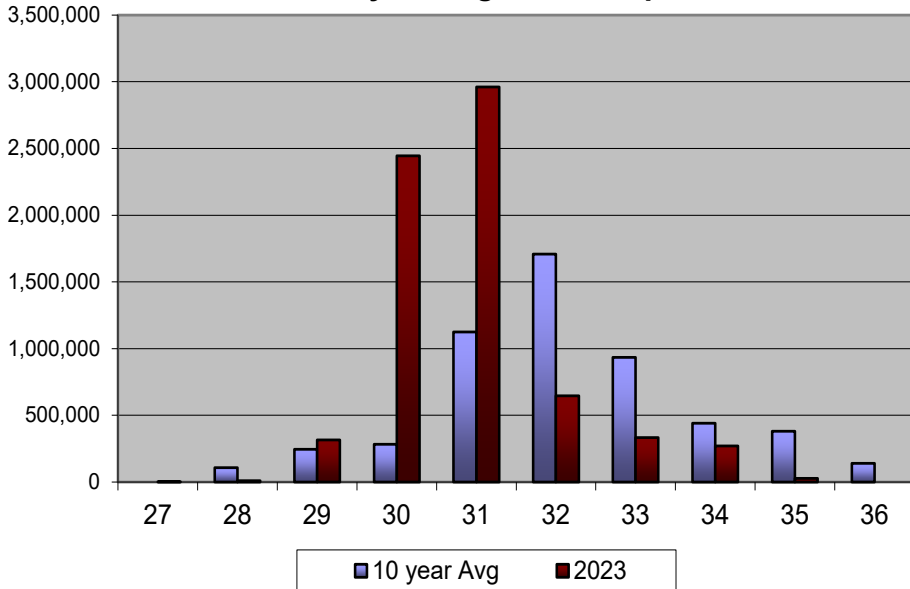
**District 4 Purse Seine Weekly Harvest  
10 year avg vs 2023 - sockeye**



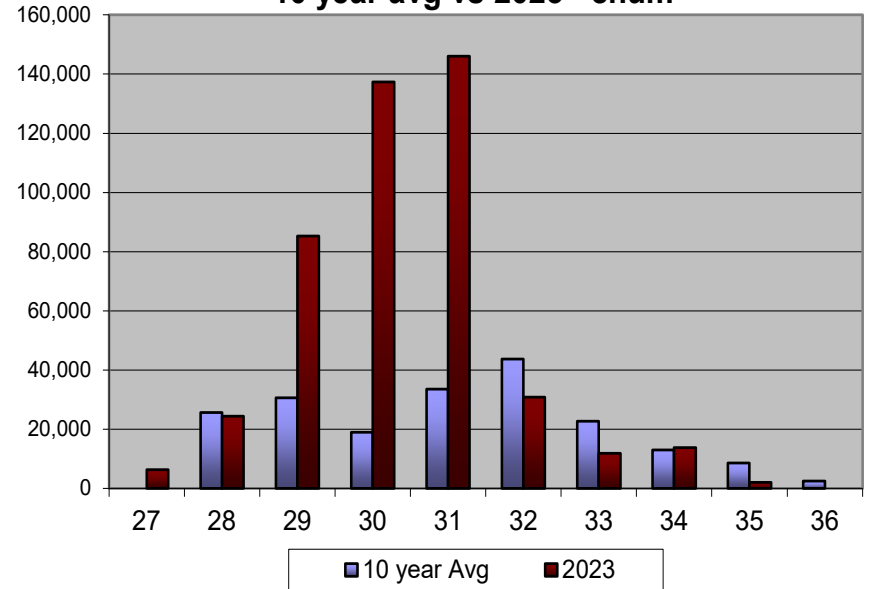
**District 4 Purse Seine Weekly Harvest  
10 year avg vs 2023 - coho**



**District 4 Purse Seine Weekly Harvest  
10 year avg vs 2023 - pink**



**District 4 Purse Seine Weekly Harvest  
10 year avg vs 2023 - chum**



D4 stock comp by week if available.

# District 104 – Purse Seine

## Treaty Performance, 2023 (preliminary)

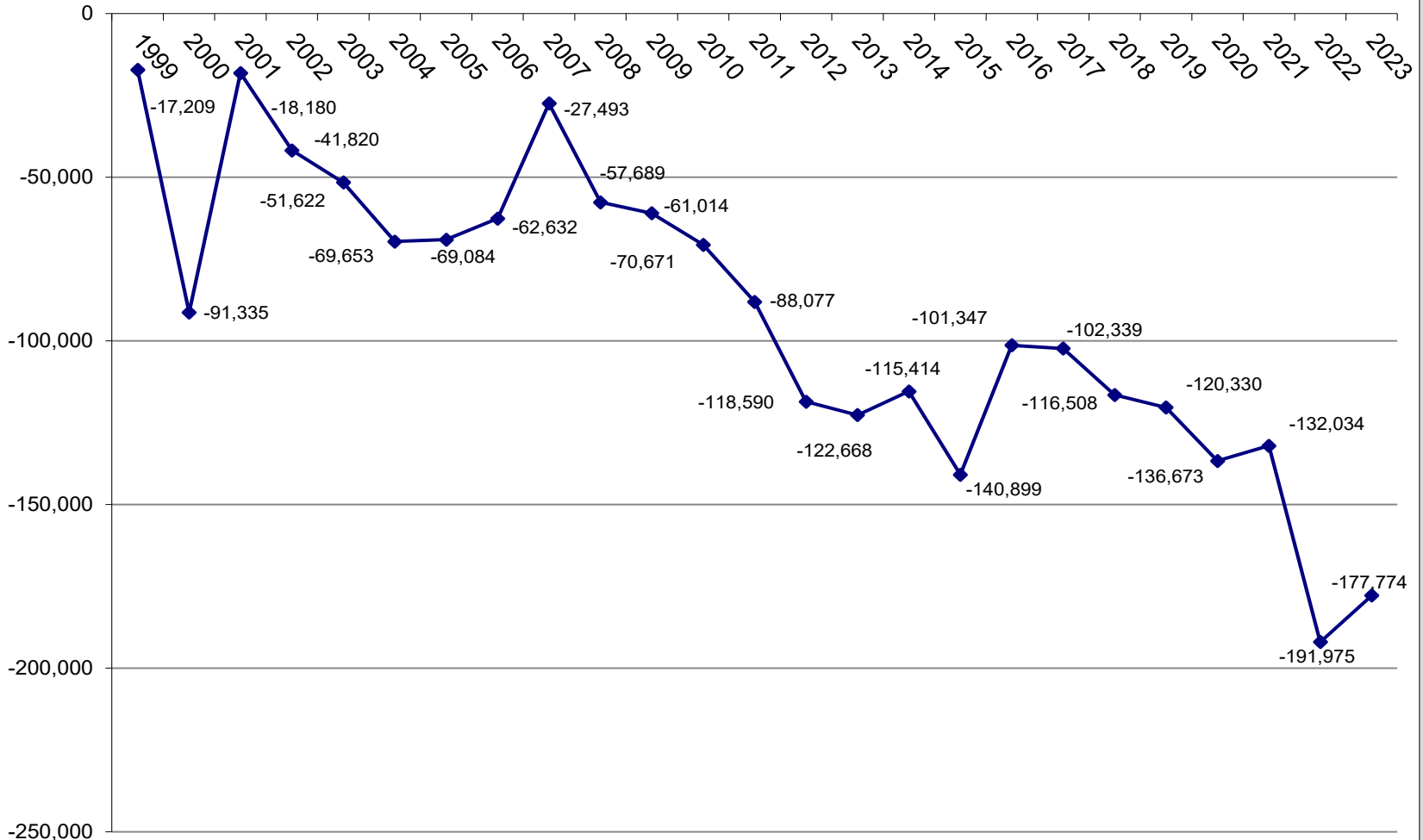
Year	Nass/Skeena Total Return	Nass/Skeena Escapement	Allowable Nass/Skeena AAH	Allowable D4 Harvest (2.45%)	Total Pre-Week 31 Sockeye Harvest	Actual Nass/Skeena Harvest	Overage/ Underage Per Year	Cumulative overage/ (underage)
1999	1,771,048	936,705	834,343	20,441	7,664	3,232	-17,209	-17,209
2000	5,318,227	1,100,000	4,218,227	103,347	48,969	29,221	-74,126	-91,335
2001	4,965,286	1,100,000	3,865,286	94,700	203,090	167,854	73,154	-18,180
2002	2,776,504	1,051,335	1,725,169	42,267	26,554	18,627	-23,640	-41,820
2003	3,306,526	1,100,000	2,206,526	54,060	84,742	44,258	-9,802	-51,622
2004	2,620,994	1,100,000	1,520,994	37,264	30,758	19,233	-18,031	-69,653
2005	1,770,472	1,000,142	770,330	18,873	35,690	19,442	569	-69,084
2006	3,650,525	1,100,000	2,550,525	62,488	89,615	68,940	6,452	-62,632
2007	2,752,076	1,100,000	1,652,076	40,476	112,135	75,615	35,139	-27,493
2008	2,531,703	1,100,000	1,431,703	35,077	6,262	4,880	-30,197	-57,689
2009	1,602,960	1,053,859	549,101	13,453	15,971	10,128	-3,325	-61,014
2010	1,395,619	956,957	438,662	10,747	4,612	1,091	-9,656	-70,671
2011	2,487,985	1,100,000	1,387,985	34,006	25,280	16,599	-17,407	-88,077
2012	2,737,168	1,100,000	1,637,168	40,111	18,300	9,598	-30,513	-118,590
2013	981,476	642,461	339,015	8,306	13,102	4,228	-4,078	-122,668
2014	3,824,537	1,100,000	2,724,537	66,751	114,375	74,005	7,254	-115,414
2015	3,015,042	1,100,000	1,915,042	46,919	43,873	21,433	-25,486	-140,899
2016	2,140,259	1,100,000	1,040,259	25,486	110,346	65,039	39,553	-101,347
2017	1,422,783	1,100,000	322,783	7,909	12,036	6,916	-993	-102,340
2018	2,086,466	1,100,000	986,466	24,168	19,743	9,999	-14,169	-116,509
2019	1,200,155	862,549	337,606	8,271	9,399	4,450	-3,821	-120,331
2020	1,983,411	1,100,000	883,411	21,644	6,923	5,300	-16,344	-136,674
2021	2,229,497	1,100,000	1,129,497	27,673	49,304	32,312	4,639	-132,035
2022	4,961,172	1,100,000	3,861,172	94,599	49,025	34,658	-59,941	-191,976
2023	2,640,000	1,100,000	1,540,000	37,730	86,551	51,931	14,201	-177,775

2.45% of Nass/Skeena Sockeye AAH - pre week 31 (AAH=Nass and Skeena Sockeye Total Return - 1.1 million escapement)

- 2023 pre-season AAH = 62.5K      post-season AAH = approx. 38K (preliminary estimate)

# District 104 – Purse Seine Treaty Performance 1999-2023

**District 104 Purse Seine  
Cumulative Treaty Sockeye Overage/Underage since 1999**



# 2024 Expectations

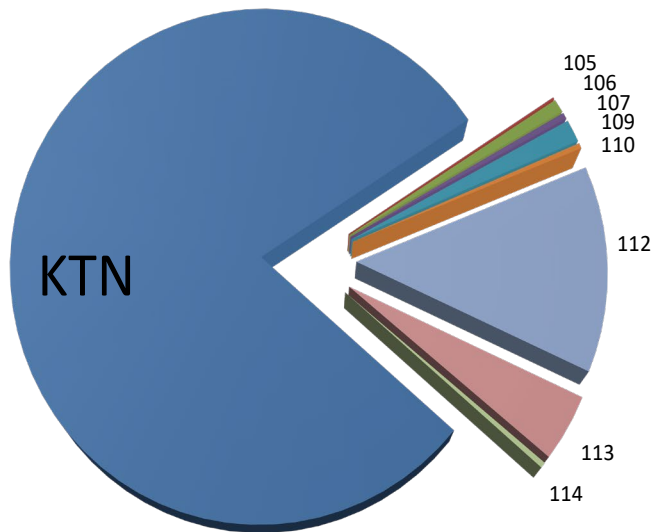
## 2022 Conditions & Esc.

- Decent spawning conditions.
- Water levels were mostly adequate throughout the summer. Die off in White River in George Inlet.
- Escapements ended up strong in District 1, mediocre in 2 and 3.

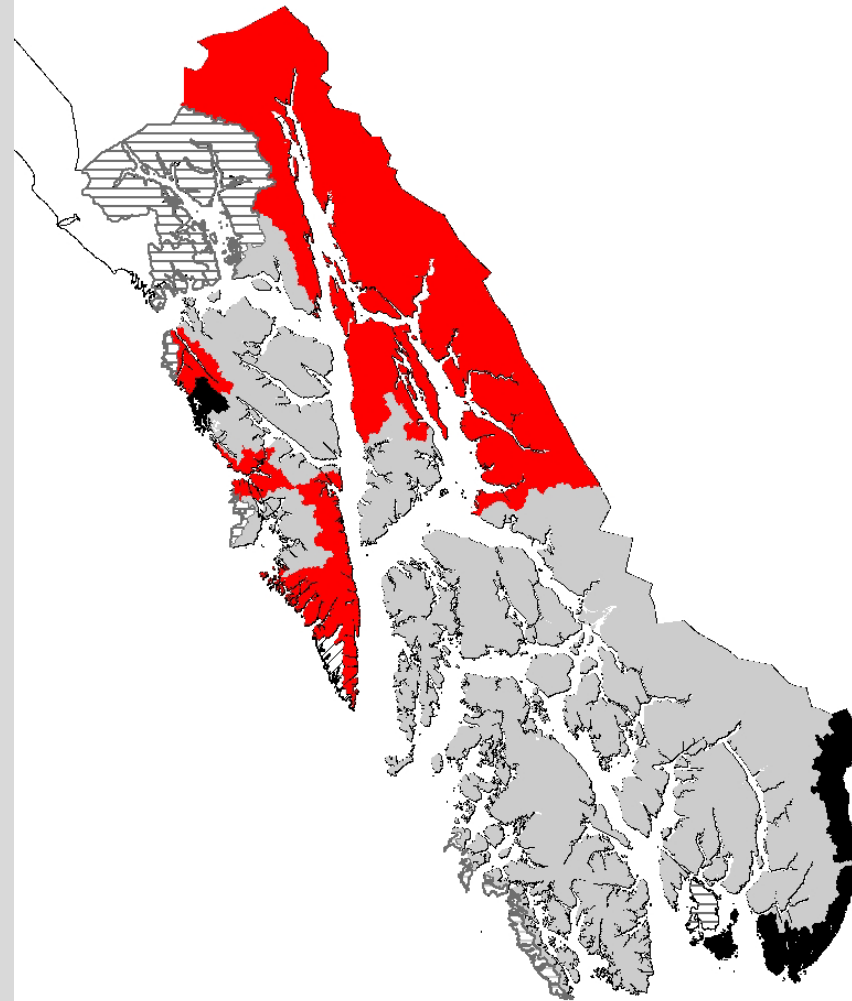
## 2022 Traditional Pink Harvest – SE

- Total Pink Harvest 14.5M. 11.5M in Ktn with almost 6 mil of that in D1.

Traditional Purse Seine Pink Salmon Harvest by District - 2022

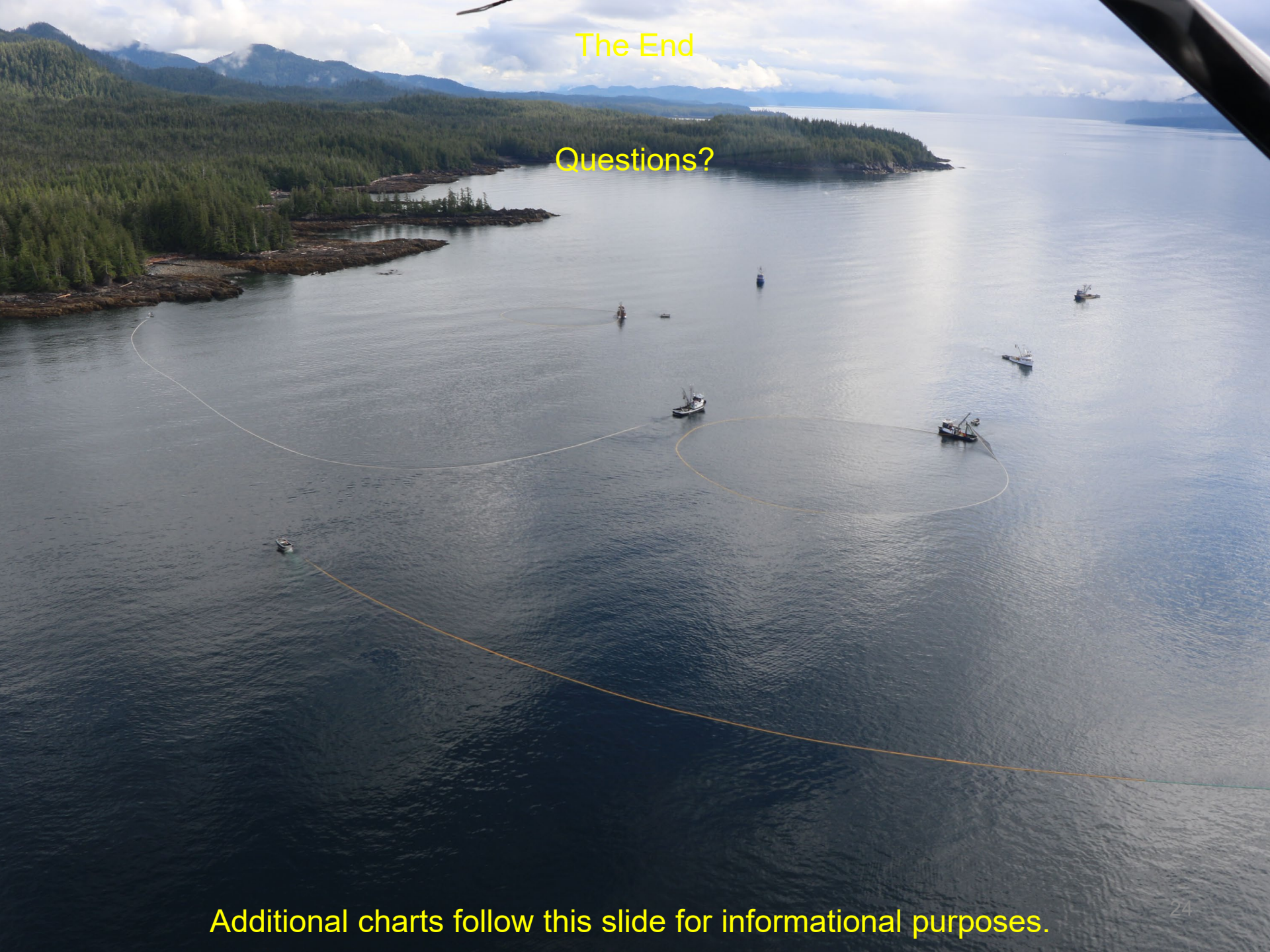


## 2022 Pink Salmon Escapement



The End

Questions?

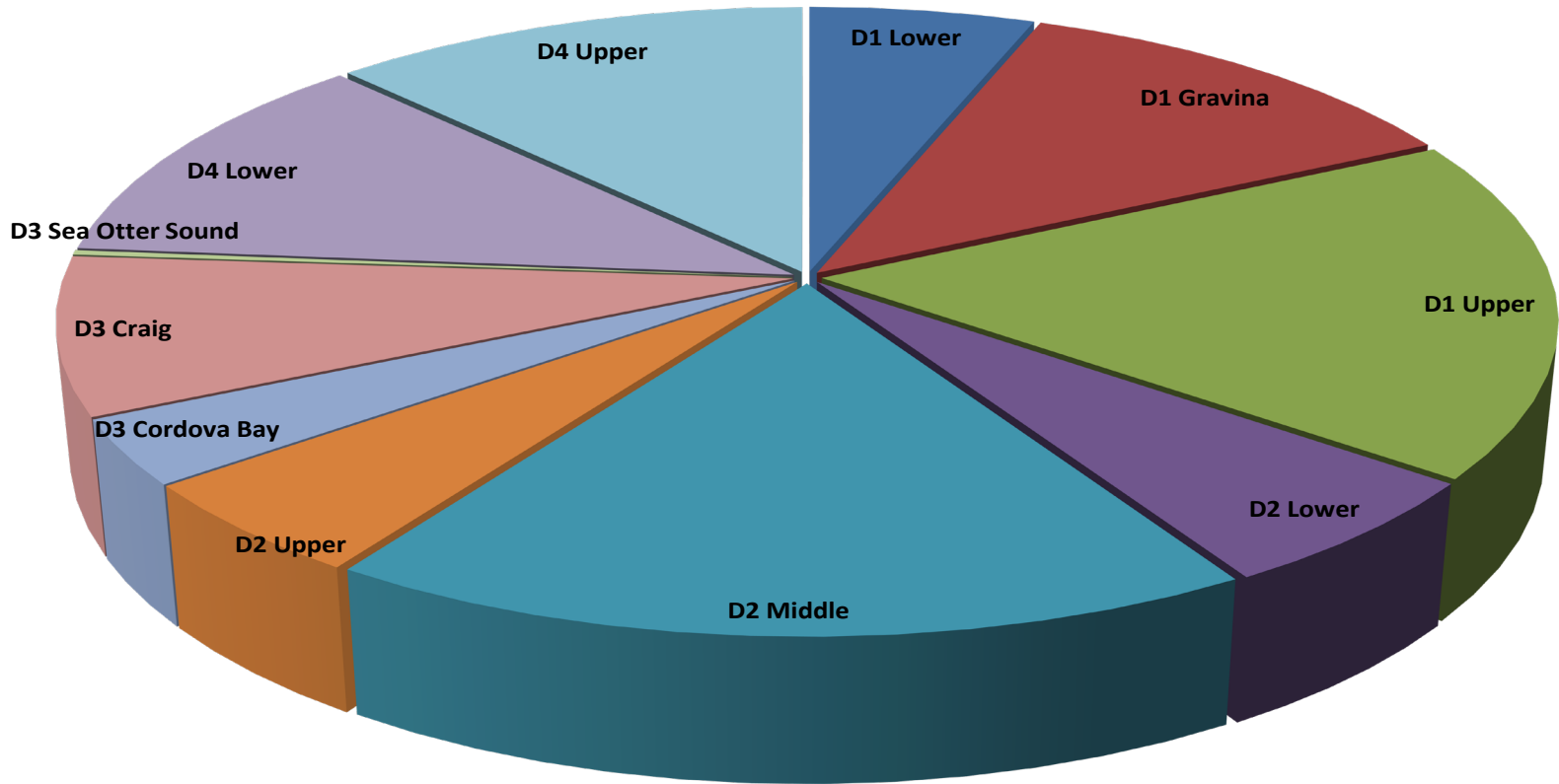


Additional charts follow this slide for informational purposes.

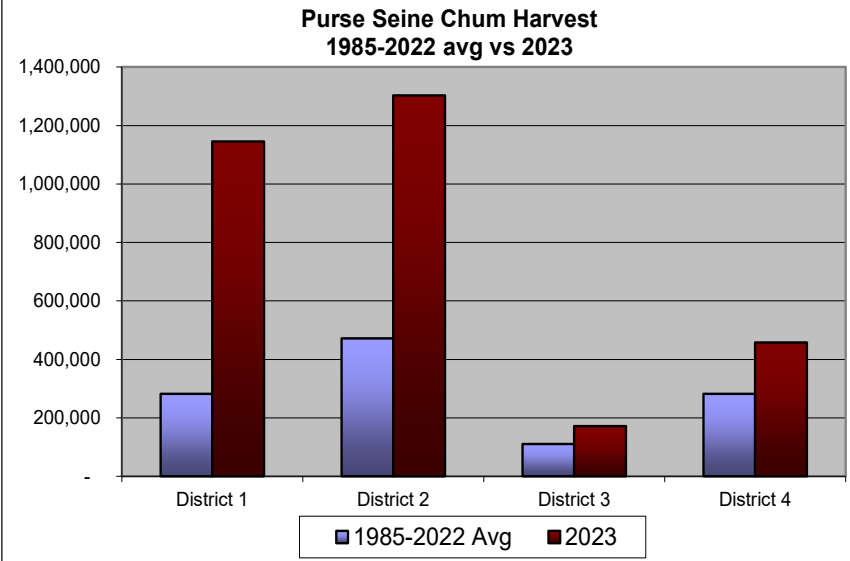
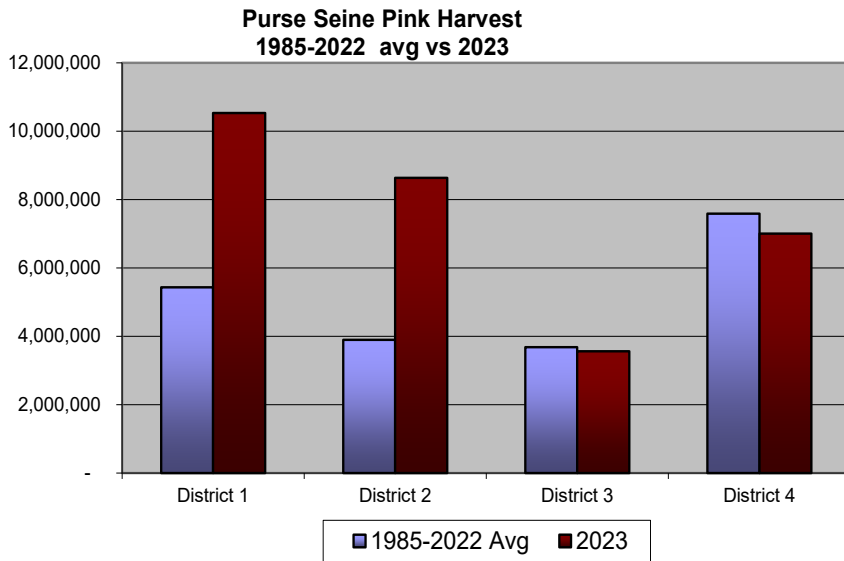
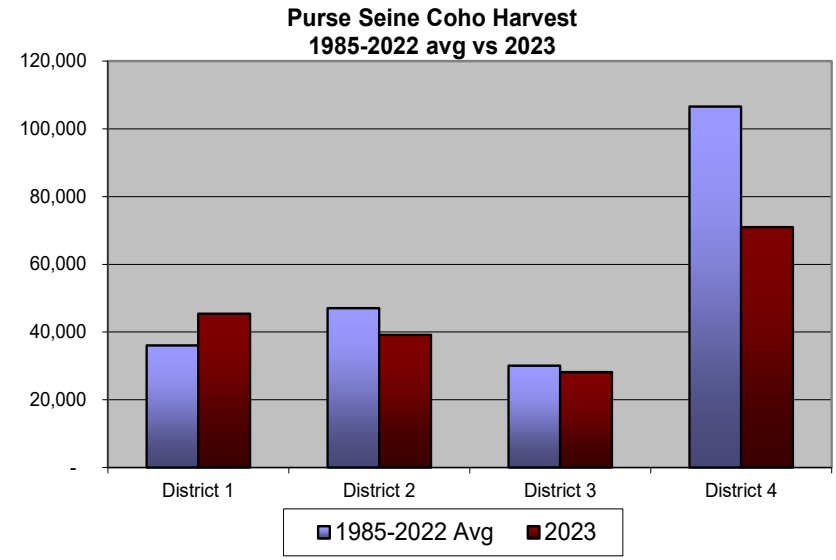
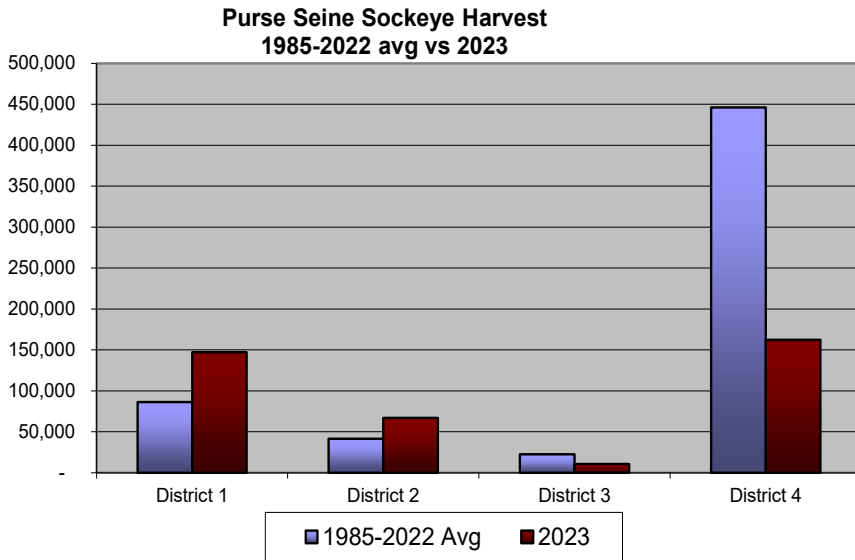


# 2023 Pink Salmon Harvest in the Ketchikan Management Area

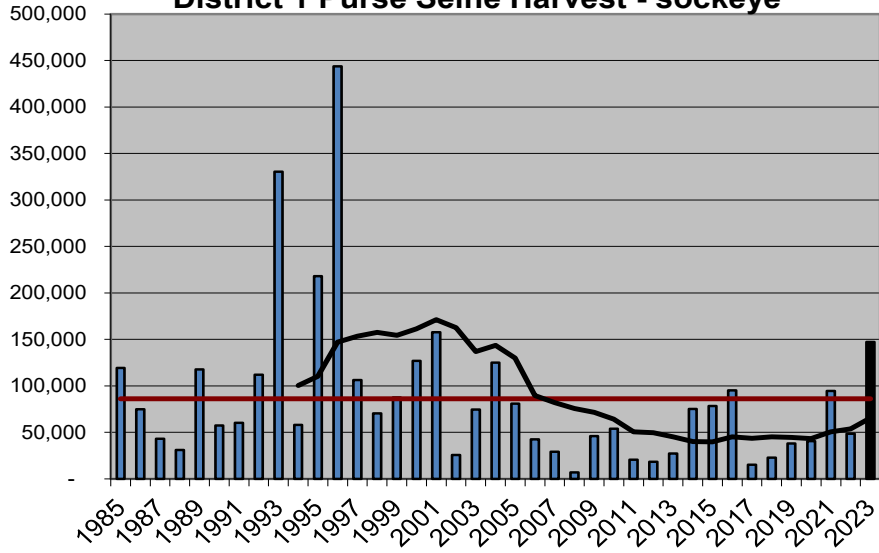
**2023 Ketchikan Area Pink salmon  
Traditional Harvest**



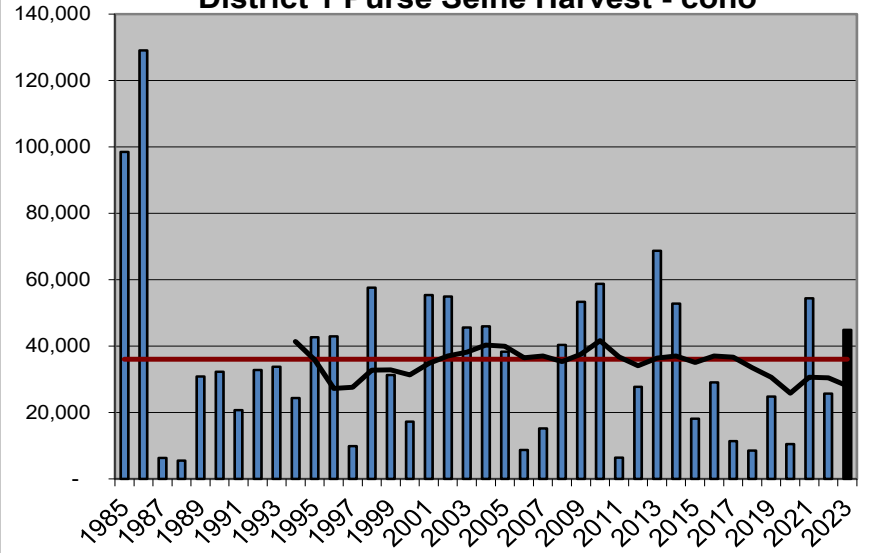
# Purse Seine Traditional Harvest by District by Species



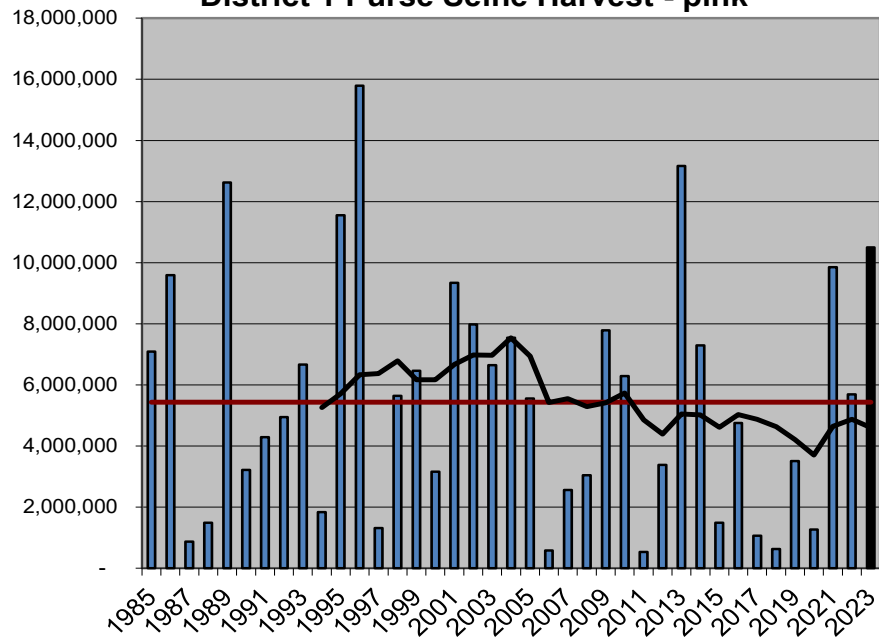
**District 1 Purse Seine Harvest - sockeye**



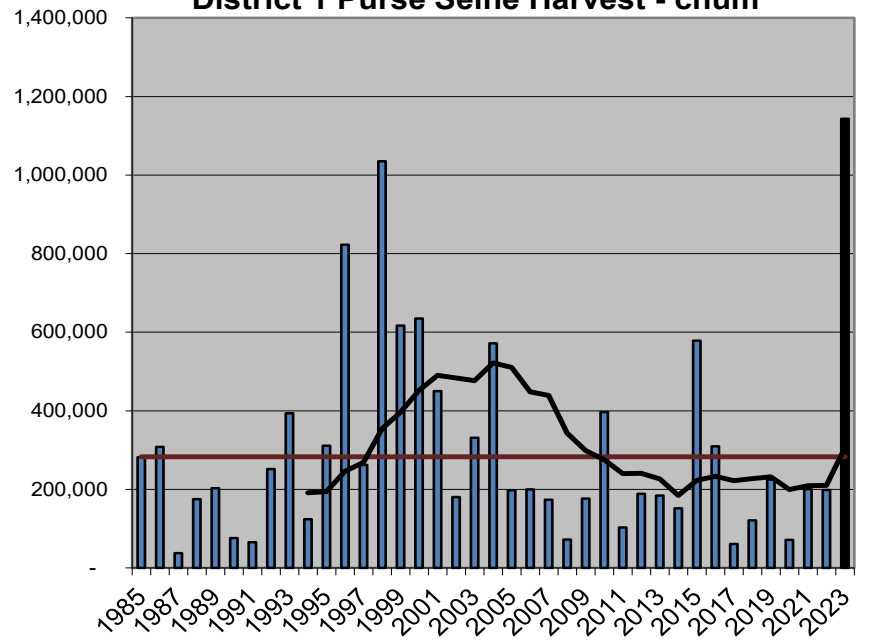
**District 1 Purse Seine Harvest - coho**



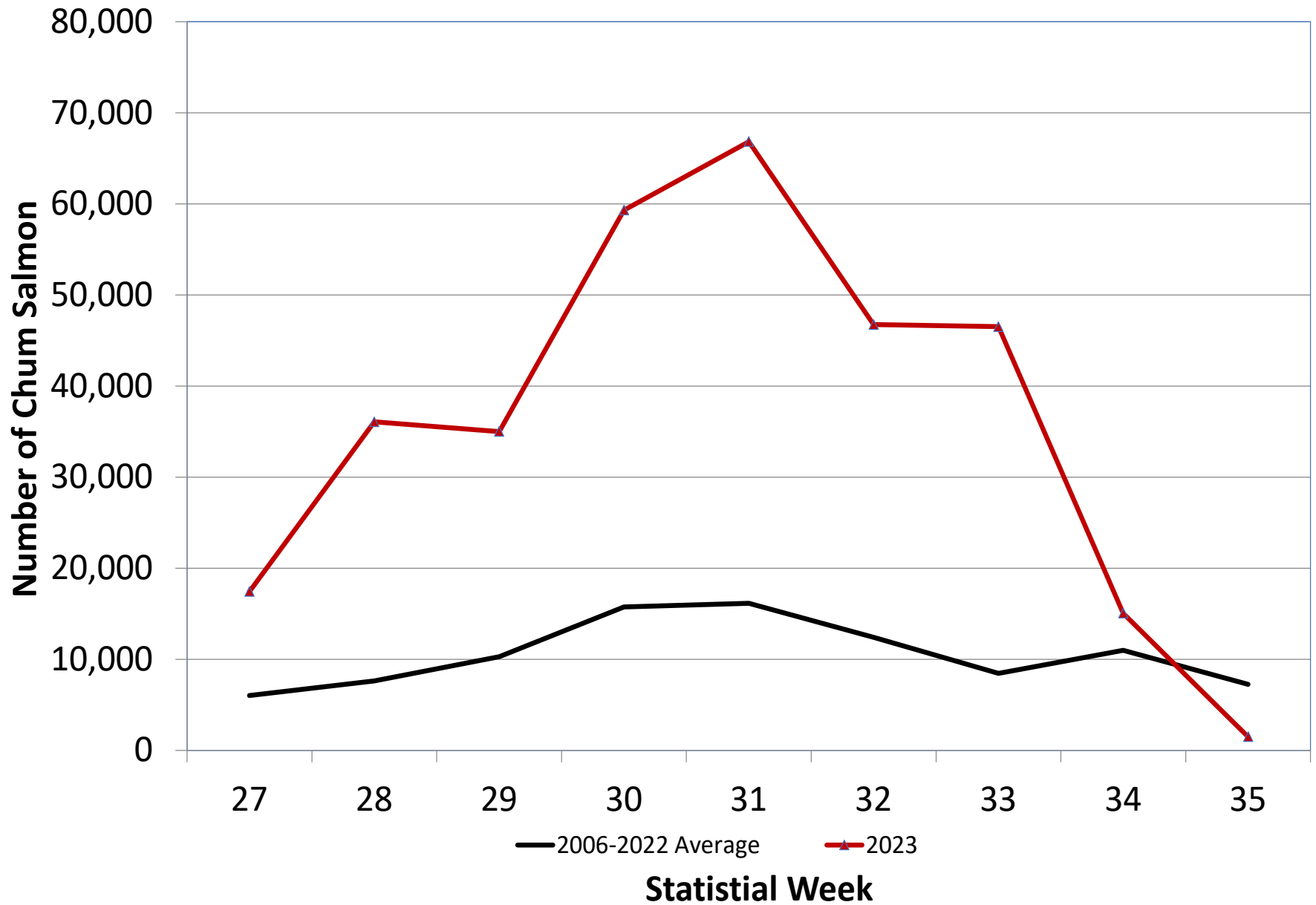
**District 1 Purse Seine Harvest - pink**



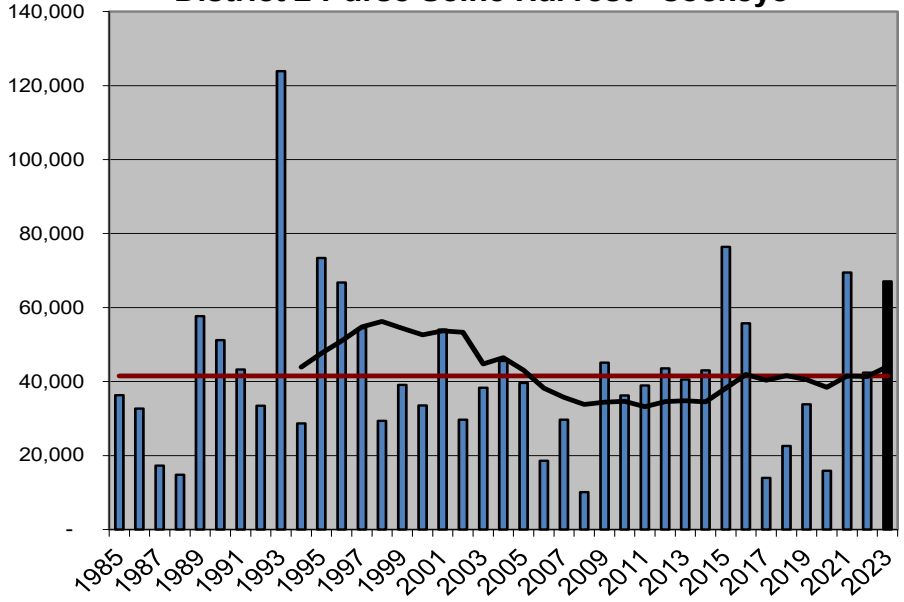
**District 1 Purse Seine Harvest - chum**



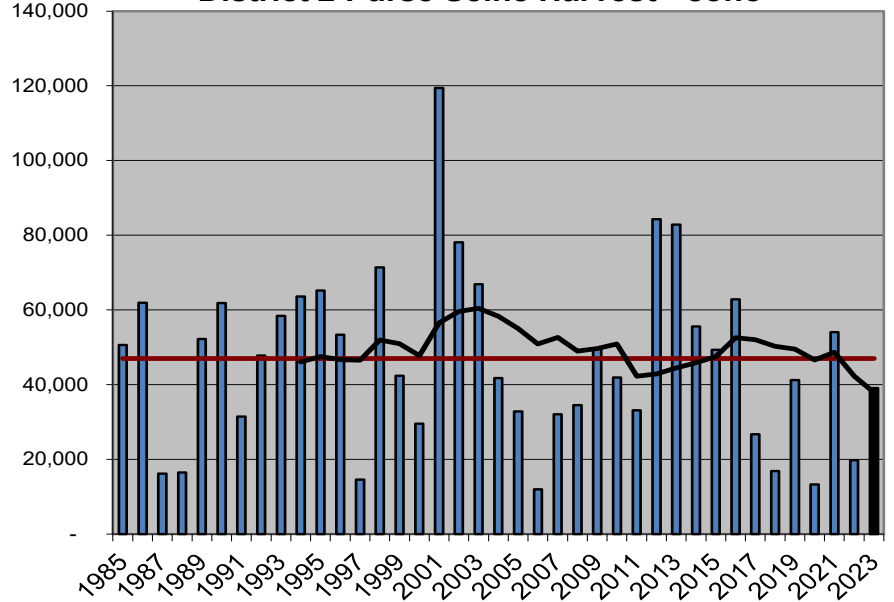
# District 1 Seine - Harvest of Unmarked Chum Salmon



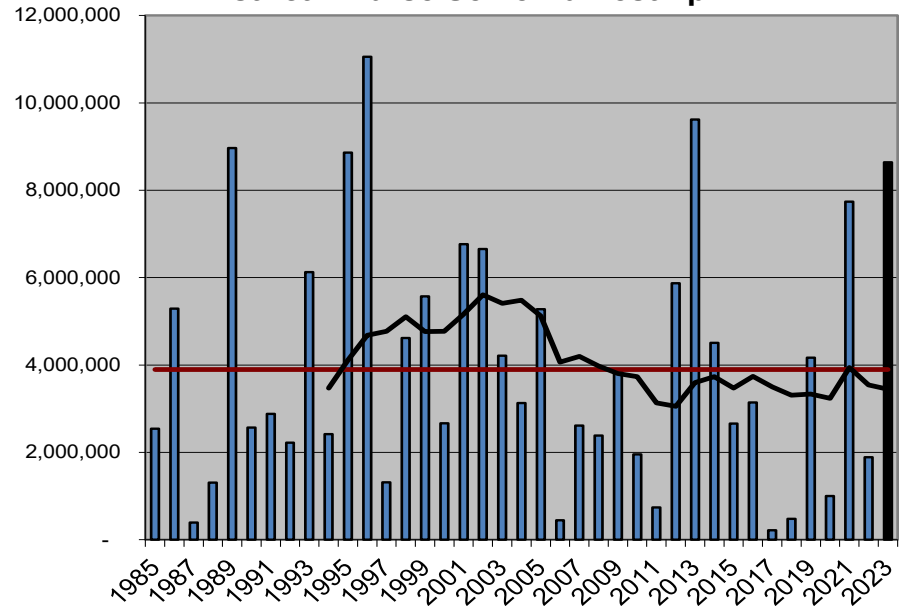
**District 2 Purse Seine Harvest - sockeye**



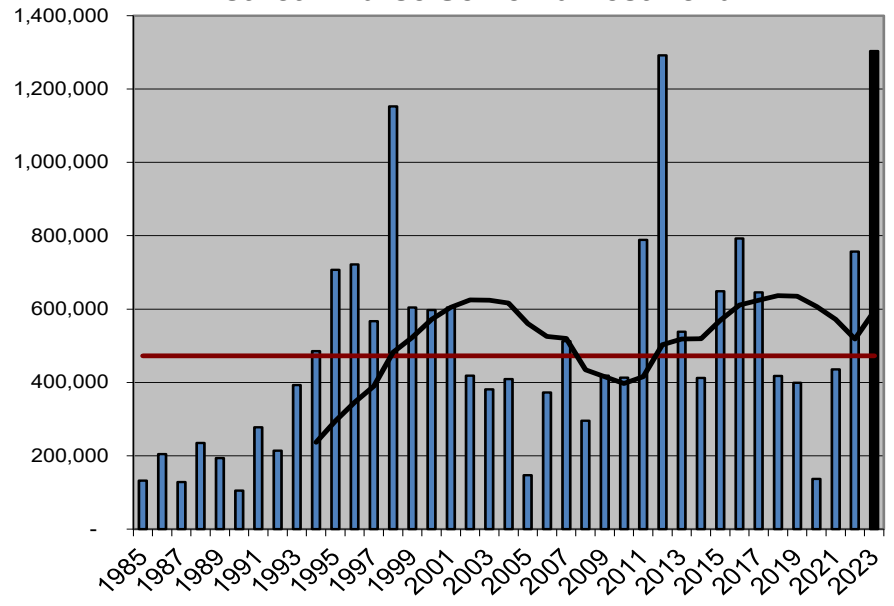
**District 2 Purse Seine Harvest - coho**



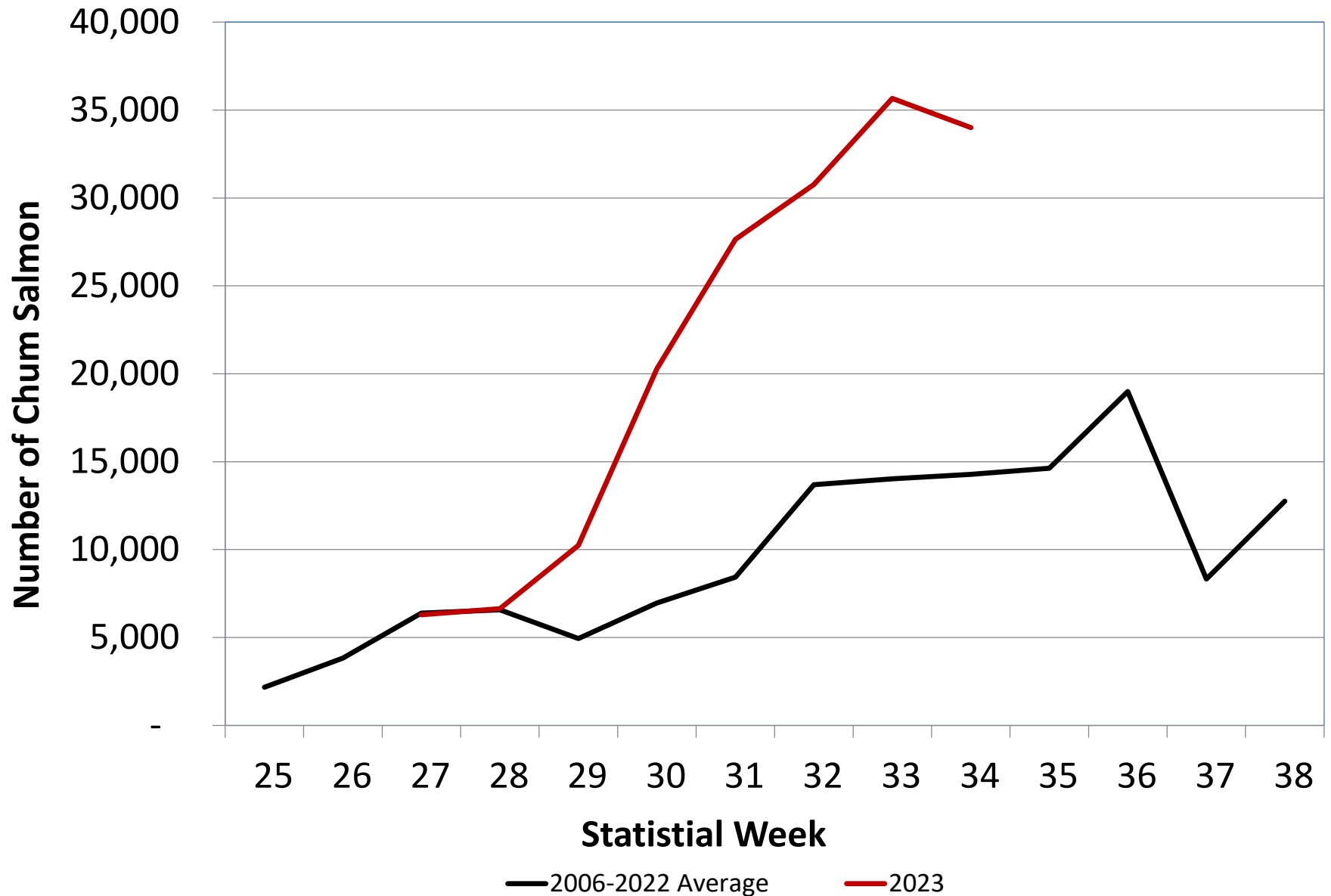
**District 2 Purse Seine Harvest - pink**



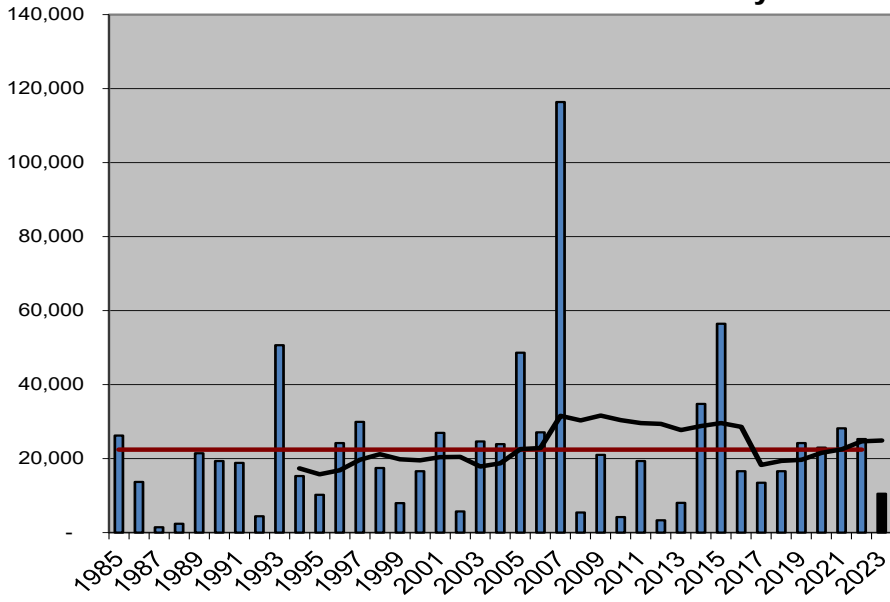
**District 2 Purse Seine Harvest - chum**



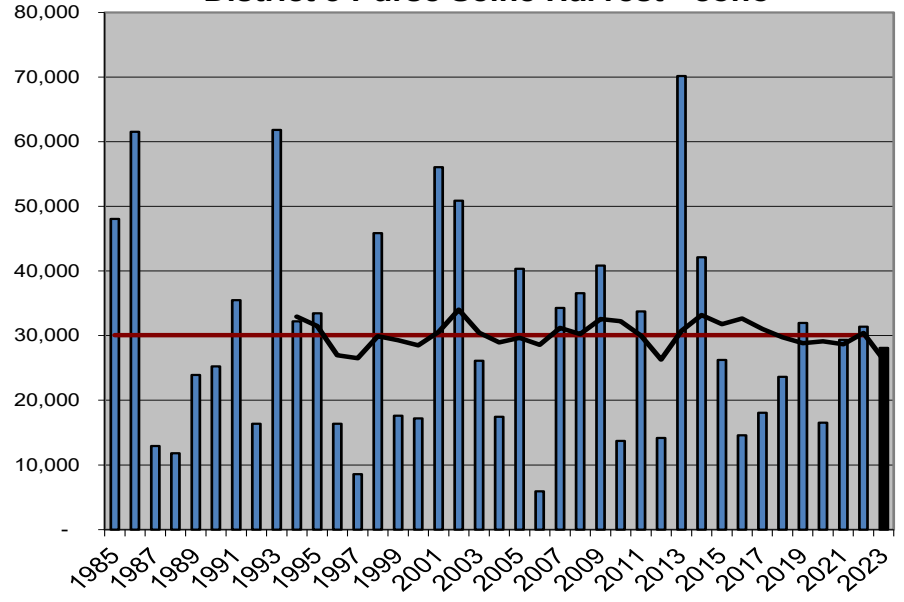
## District 2 Seine - Harvest of Unmarked Chum Salmon



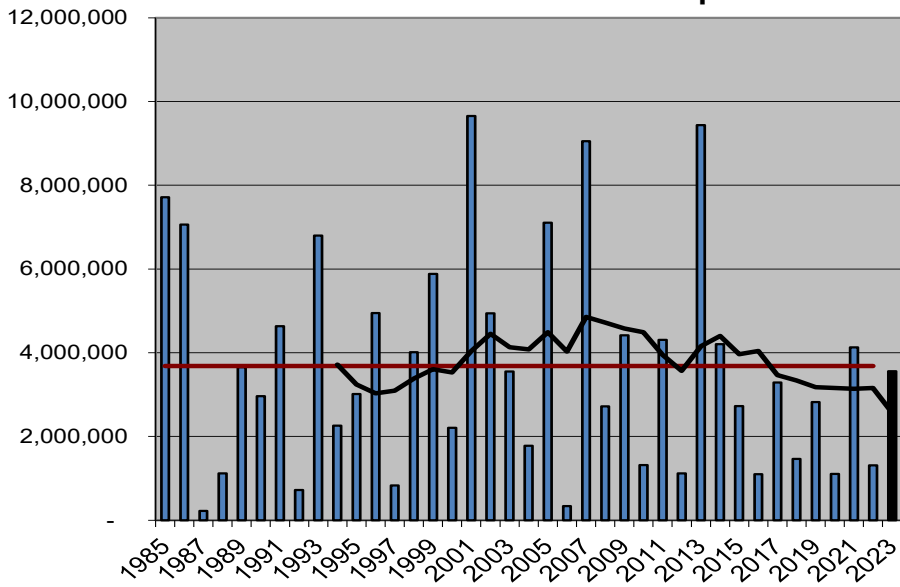
**District 3 Purse Seine Harvest - sockeye**



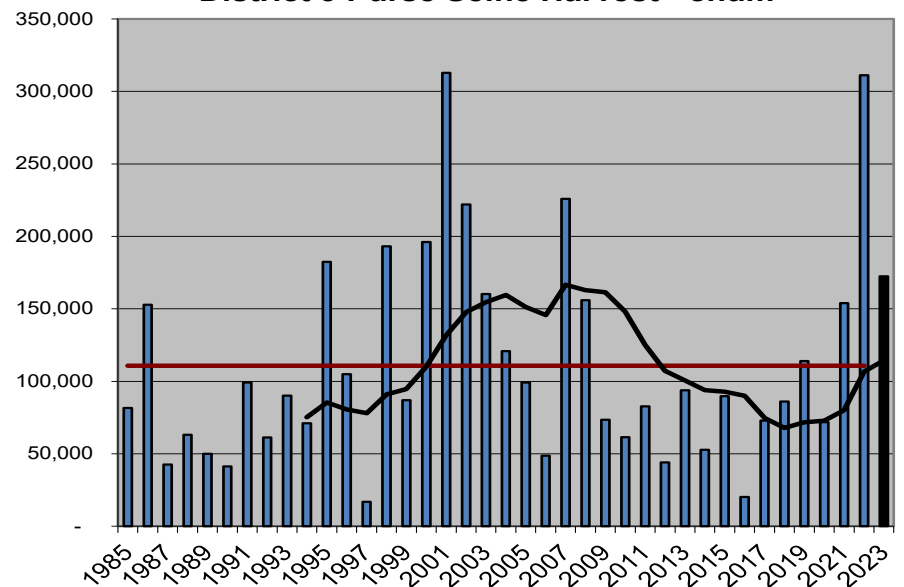
**District 3 Purse Seine Harvest - coho**



**District 3 Purse Seine Harvest - pink**



**District 3 Purse Seine Harvest - chum**



## 2022 District 3 Seine - Harvest of Unmarked Chum Salmon

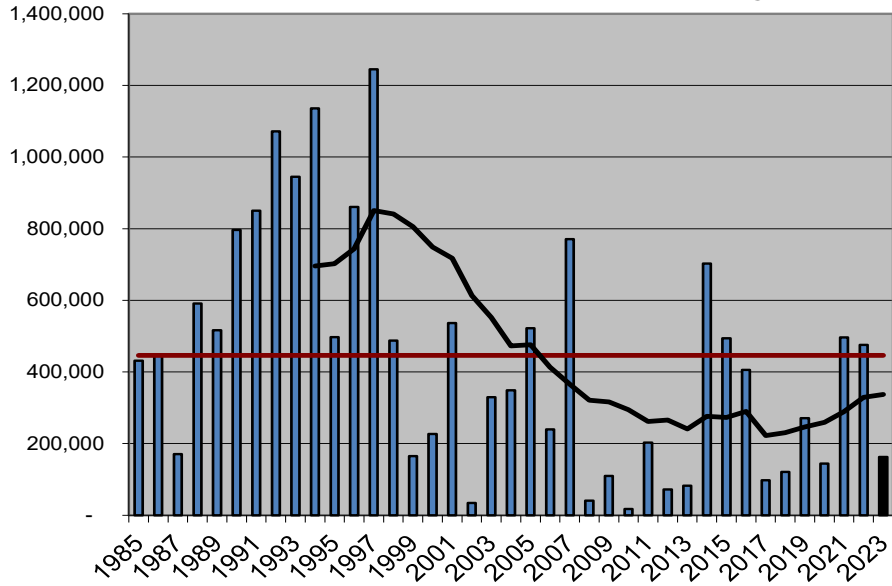


— 2006-2022 Average

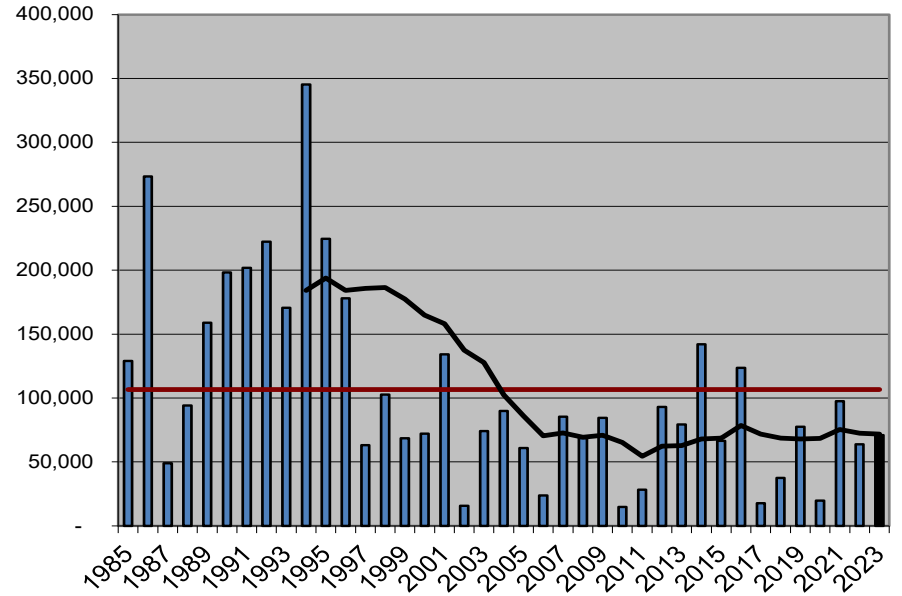
— 2023



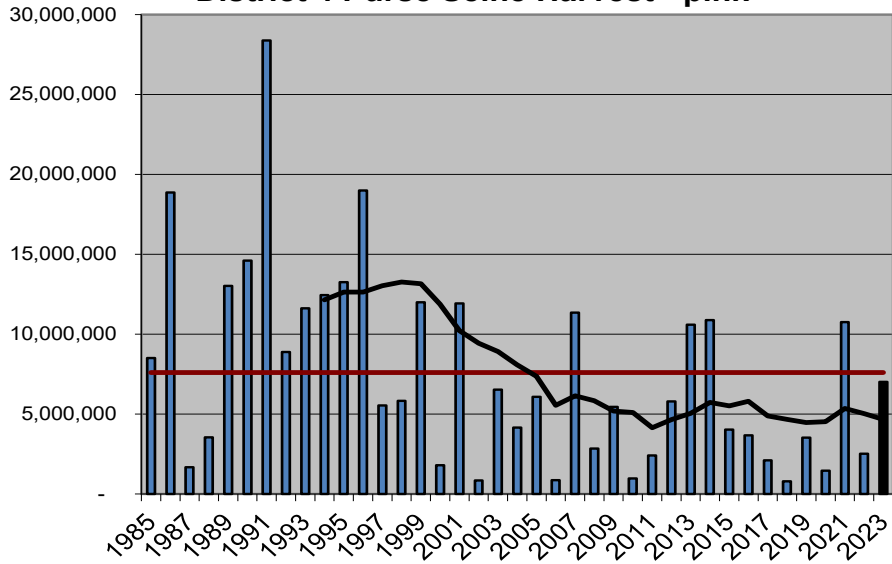
**District 4 Purse Seine Harvest - sockeye**



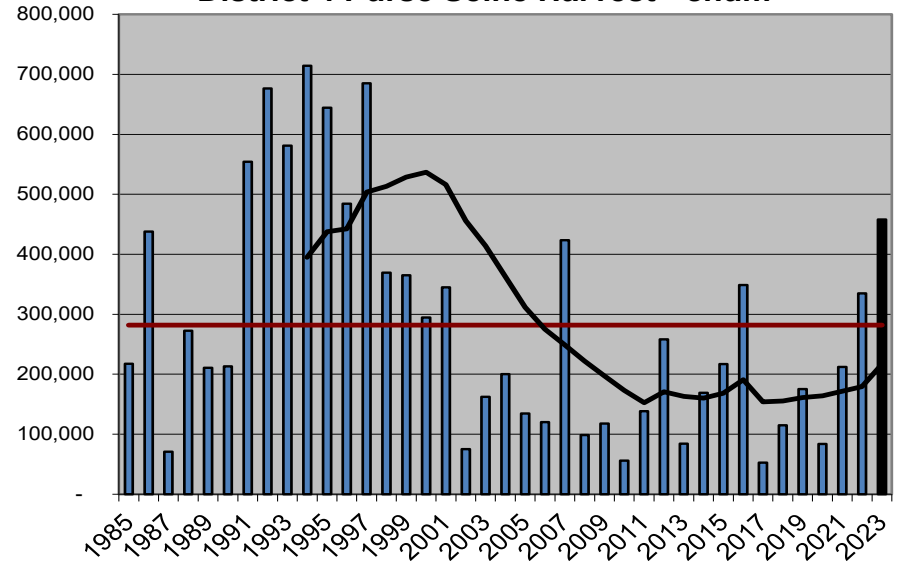
**District 4 Purse Seine Harvest - coho**



**District 4 Purse Seine Harvest - pink**



**District 4 Purse Seine Harvest - chum**



# 2022 District 4 Seine - Harvest of Unmarked Chum Salmon

