

Figure 1.

Public Testimony:

Gene J Sandone representing Yukon Delta Fisheries Development Association (YDFDA).

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Sockeye Salmon Harvest:

- The most recent 5-year average is the highest on record.
- The last two year's harvest were highest on record.

Chum Salmon Harvest:

- The most recent 5-year average is the highest on record.
- Harvest in 2021 was the highest on record.

Chinook Salmon Harvest:

- The most recent 2 5-year averages are the highest on record.
- Harvest in 2015 was the highest on record by far.
- YDFDA is very concerned about the dramatic increase in the Chinook Salmon harvest and recommend a genetics study on this harvest. These harvested Chinook salmon may originate from stocks of concern.

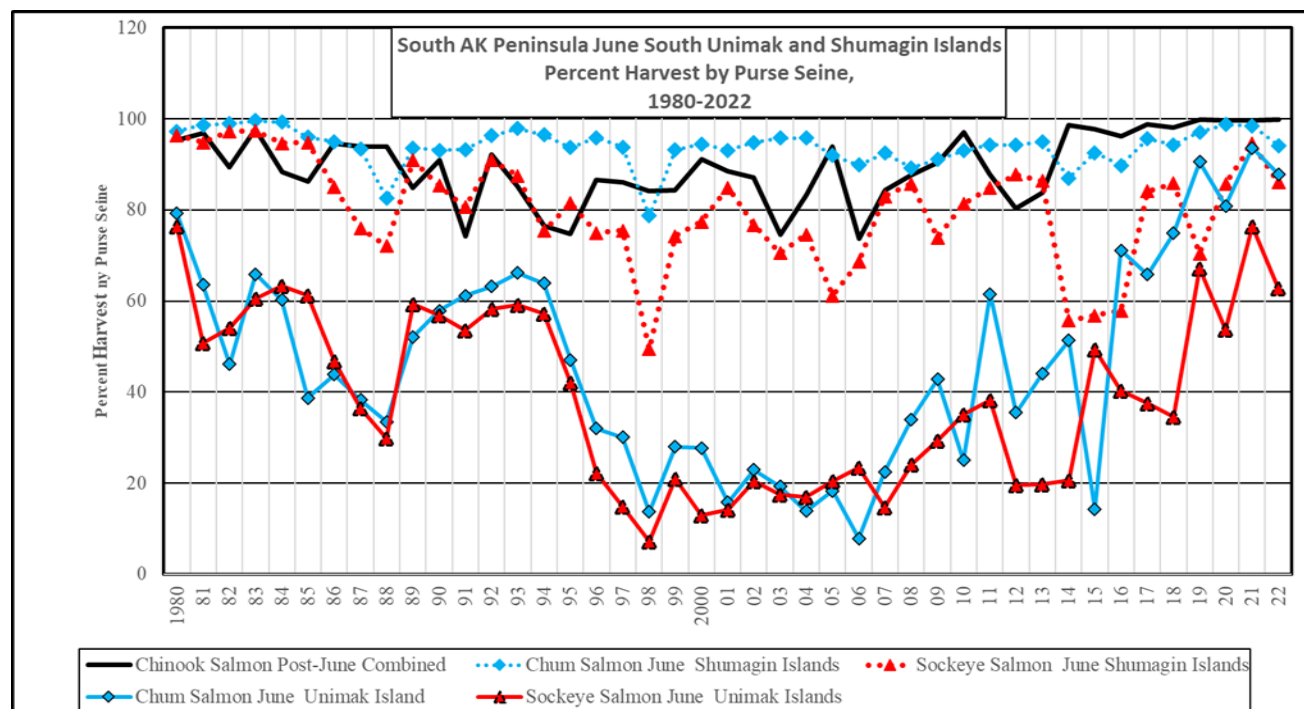


Figure 2

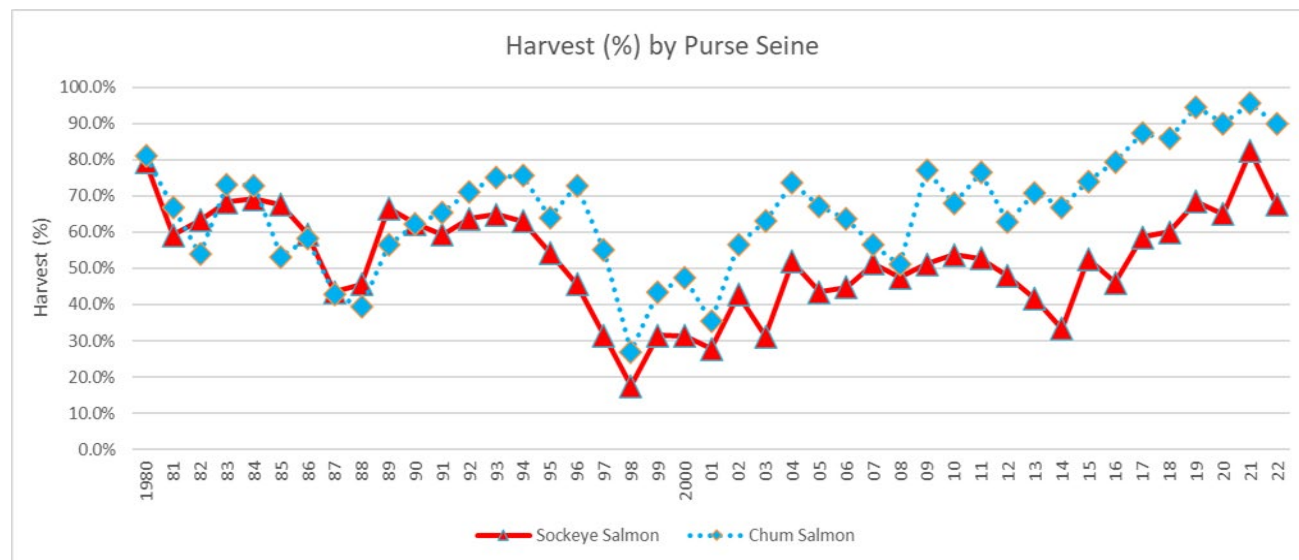


Figure 3.

Harvest by Purse Seine

- Purse seine gear has consistently dominated the post-June Chinook salmon harvest.
- Purse seine is currently dominating the harvest of all salmon species.
- Because drift gillnet gear is not allowed in the Shumagin Islands, the harvest by purse seine of all species has been very high.
- Figure 3. The total June Chum salmon catch attributed to purse seine gear has been 90% or more for the most recent 4 years, 2019-2022.

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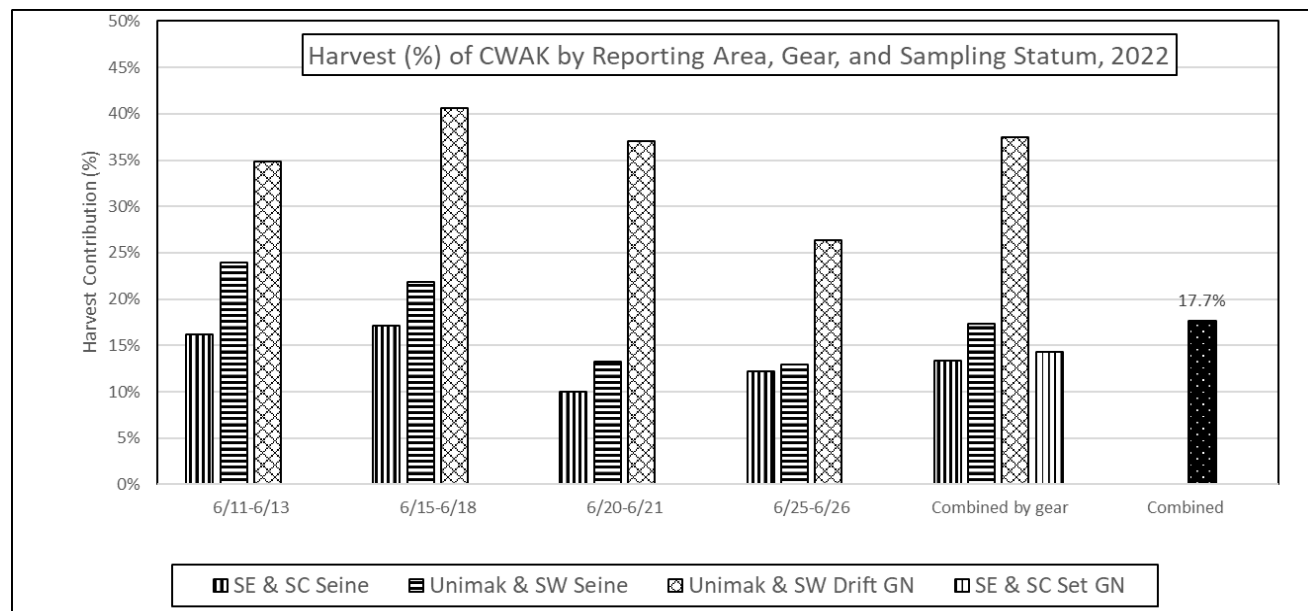


Figure 4

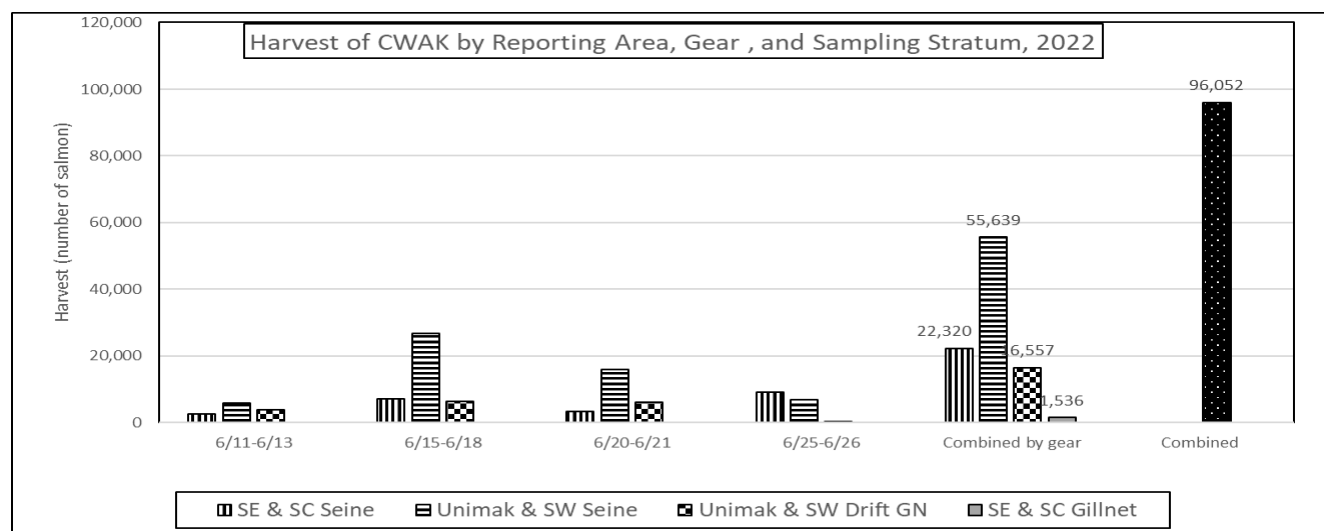


Figure 5

Purse seine gear accounted for 81.2% of the CWAK stock-specific harvest.

Drift gillnet gear accounted for 17.2% of the CWAK stock-specific harvest.

Set gillnet gear accounted for 1.6% of the CWAK stock-specific harvest.

The overall harvest rate of 5.5% on the CWAK chum salmon stock was above the 3-year WASSIP average harvest rate of 4.2%. and the second highest harvest rate of the four years of genetic studies.

But what may be more important is the proportion of the overall CWAK Chum salmon harvested in the South AK Peninsula, which may be very close to 100%

- **Regardless of efforts by the seine fleet to avoid chum salmon, large sockeye salmon harvests will no doubt result in high chum salmon harvests. The harvest of Chum salmon is driven by catches in purse seine gear. As the percentage of the harvest taken by purse seine gear increases, so does the harvest of chum salmon.**

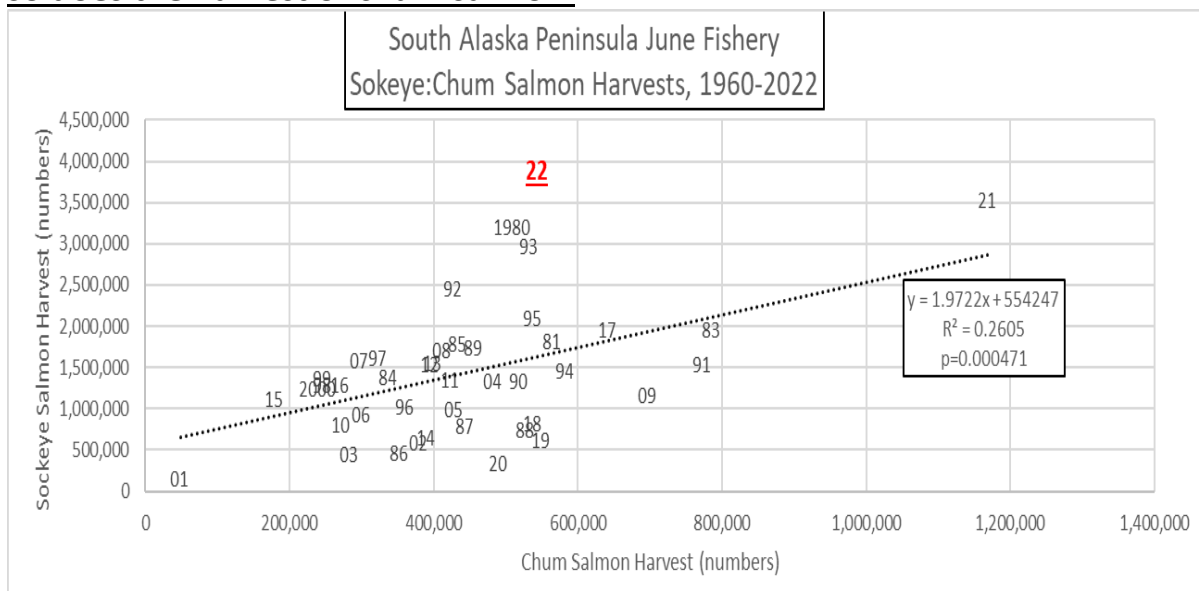


Figure 6

- Note that although the fleet made a concerted effort to avoid chum salmon in 2022, the chum salmon harvest was relatively high, with the harvest rate on CWAK chum salmon of 5.5%, which was above the WASSIP average of 4.2%, and the second highest harvest rate during the four years of GSI studies.

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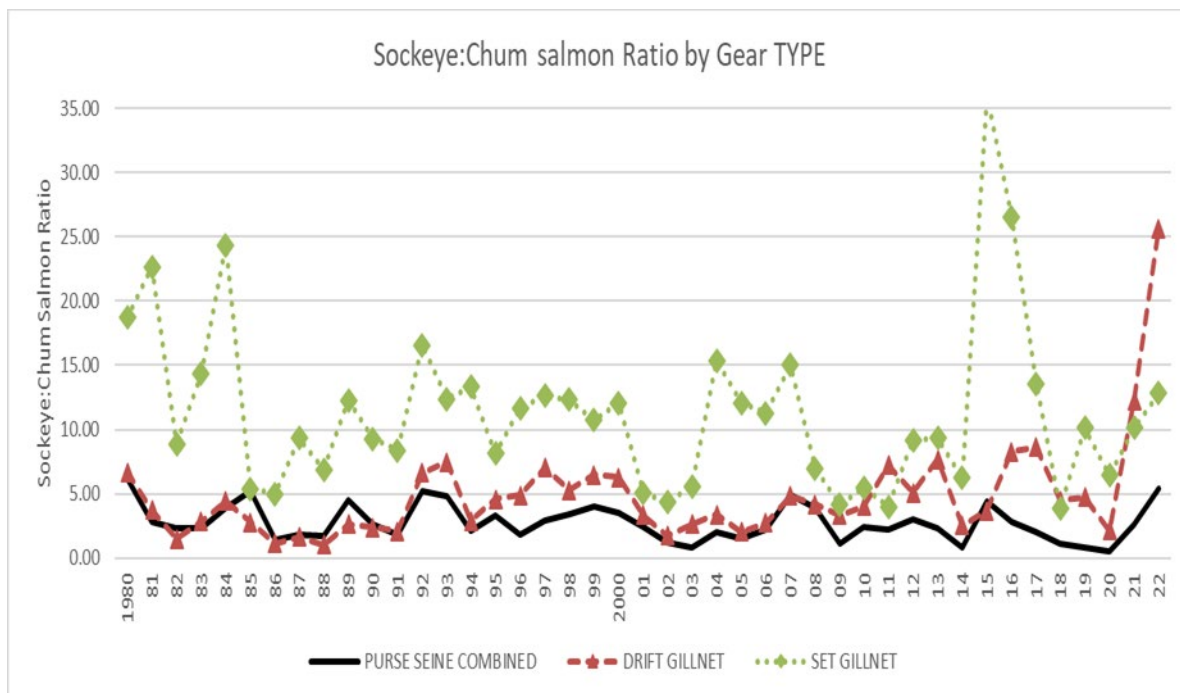


Figure 7

- Sockeye:Chum salmon ratio has been generally the lowest for the purse seine gear type.
- The most recent 5-year, 2018-2022, average ratio for purse seine gear combined is 2.08, with the Shumagin ratio being 1.75 and the Unimak ratio being 2.31 for the same time period.
- The Unimak drift gill net ratio was 9.85 for the same period.
- The combined area set gillnet ratio was 8.68, with the Shumagin ratio being 7.24 and the Unimak being 28.22 for the same period.

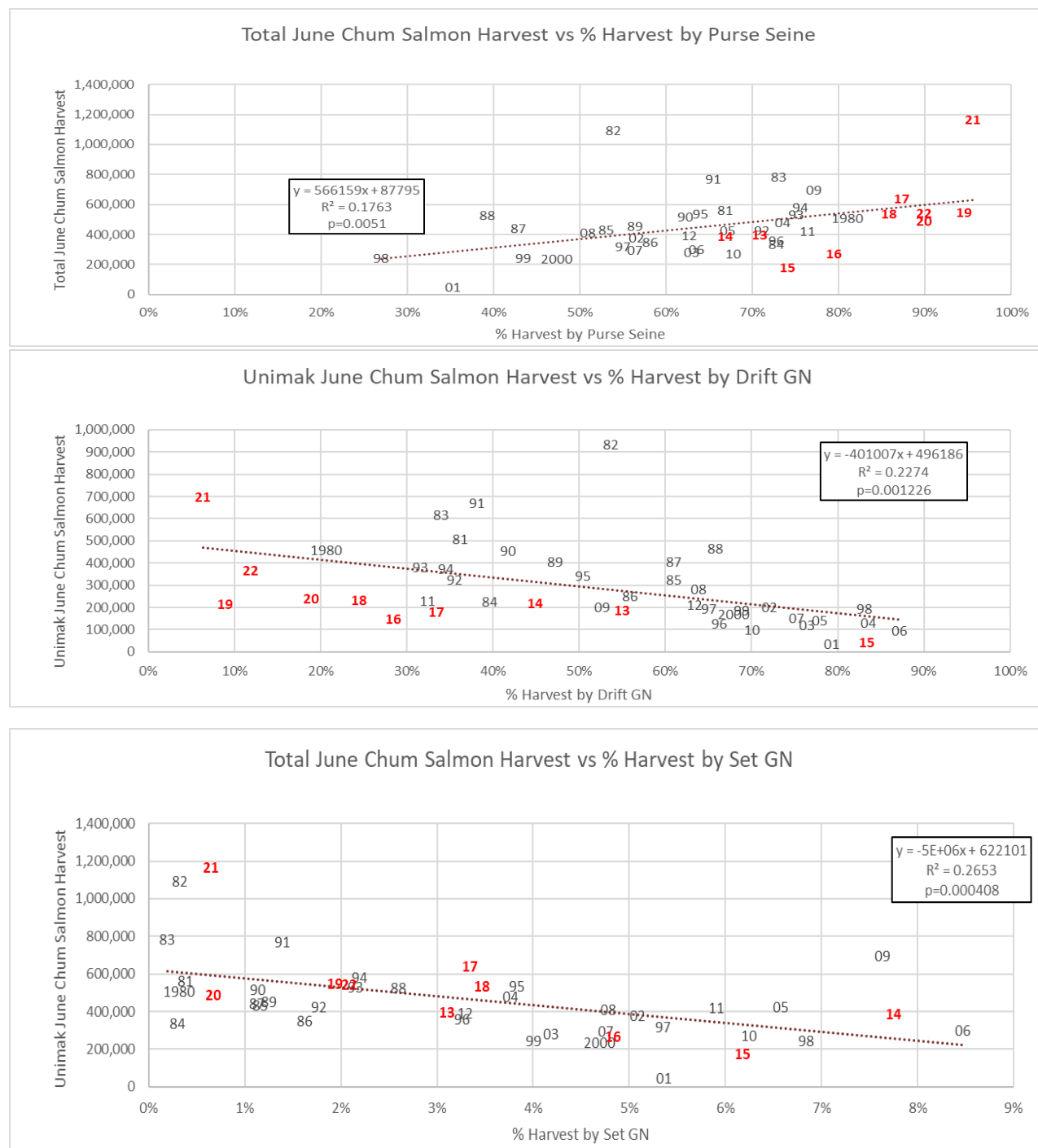


Figure 8

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- The harvest of Chum salmon is driven by catches in purse seine gear. As the percentage of the harvest taken by purse seine gear increases, so does the harvest of chum salmon.
- Conversely, as the percent harvest attributed to both the drift and set gillnet gear increases, the total chum salmon harvest decreases.
- GSI information is lacking for gear types in WASSIP.

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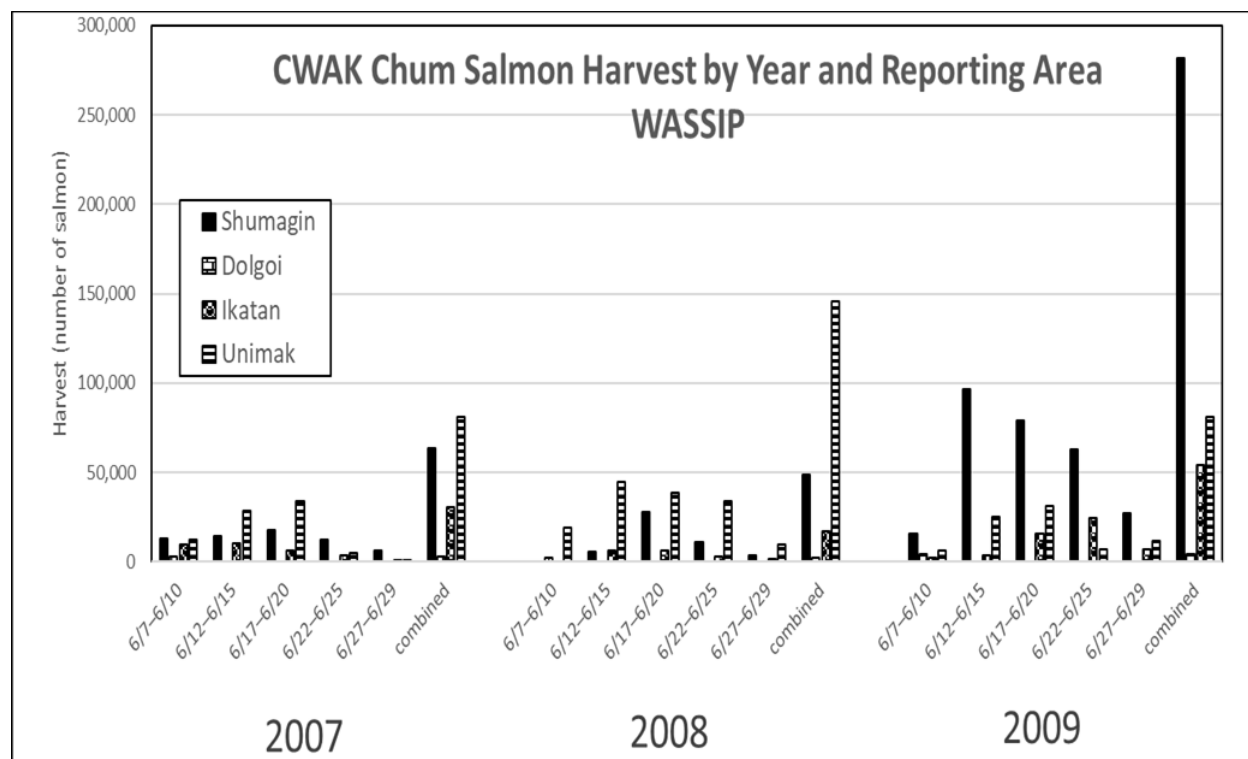


Figure 9

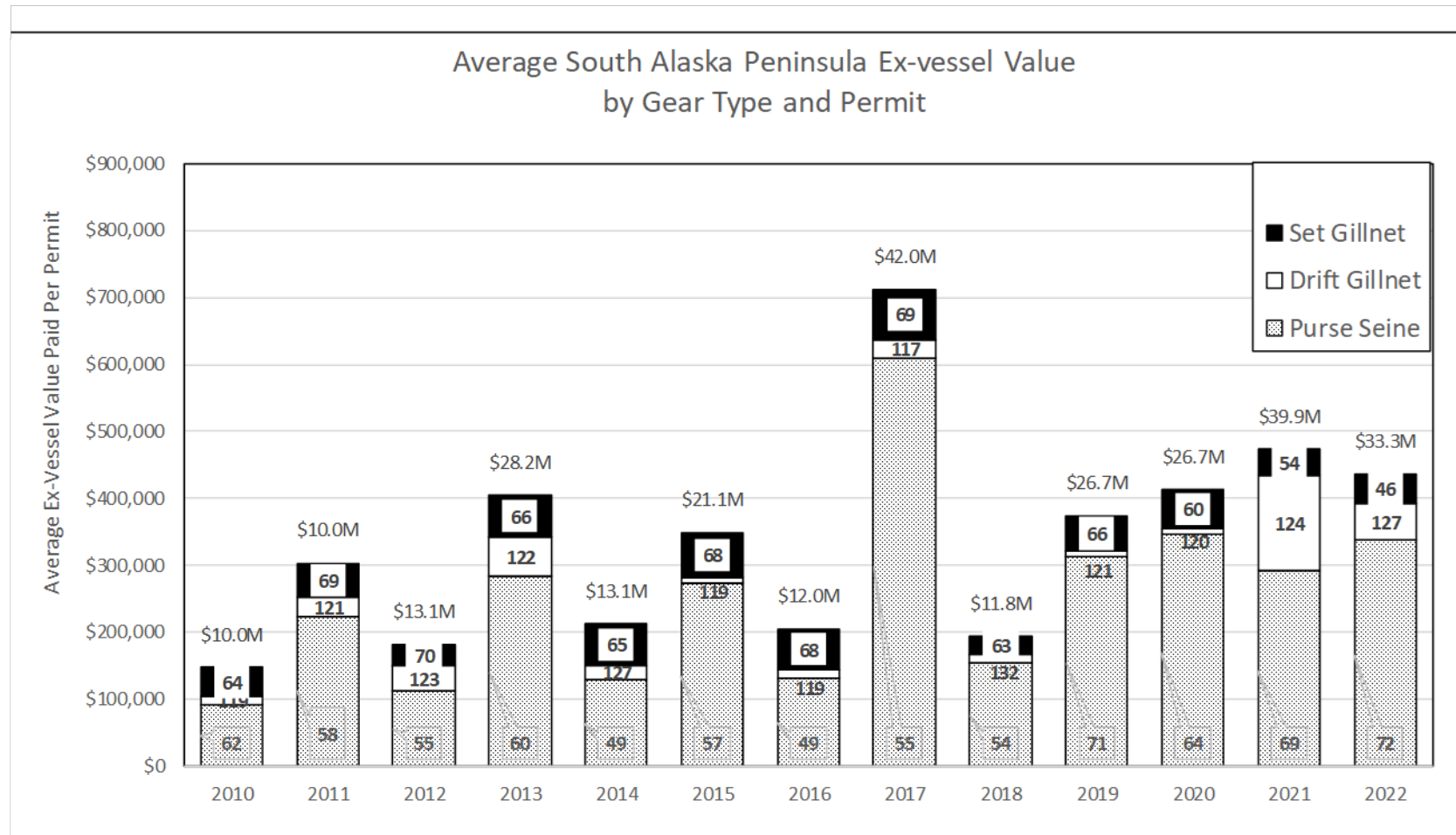
Unfortunately, the WASSIP did not differentiate by gear type.

In the WASSIP years (2007-2009), the Shumagin harvest was dominated by purse seine gear, 92.5, 89.3 and 91.1, respectively.

However, the purse seine gear contributed approximately 22.5, 34.0% and 42.8%, respectively to the Unimak chum salmon harvest in that district.

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Average Ex-vessel value paid to the average South Alaska Peninsula fishermen by gear type for years 2010-2022. Numbers associated with the bars indicate the number of actively fished permits for that gear type. Total exvessel value for each year is indicated above each bar.

Figure 10

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Table 1

| South Alaska Penninsula Commercial Salmon Ex-vessel Value and Permits Actively Fished | | | | | | | | | | | | | | | | | | | |
|---|--------------|---------------|-------------|--------------|------|-----------------------------------|---------------|-------------|-------|--|-------------------------|---------------|-------------|---------|------|-----------------------------|---------------|-------------|-------|
| | | | | | | | | | | | | | | | | | | | |
| | Appendix A17 | | | | | Appendix A9 | | | | | | | | | | | | | |
| | Ex-Vessel | | | | | Number of Actively-Fished Permits | | | | | Average Ex-vessel Value | | | | | Average Ex-vessel Value (%) | | | |
| Year | Purse Seine | Drift Gillnet | Set Gillnet | Total | | Purse Seine | Drift Gillnet | Set Gillnet | total | | Purse Seine | Drift Gillnet | Set Gillnet | total | | Purse Seine | Drift Gillnet | Set Gillnet | total |
| 2010 | \$5,702,047 | \$1,598,547 | \$2,694,190 | \$9,994,784 | 0.0% | 62 | 119 | 64 | 245 | | 91,969 | 13,433 | 42,097 | 40,795 | 0.0% | 57.1% | 16.0% | 27.0% | 100% |
| 2011 | \$13,003,303 | \$3,449,952 | \$3,527,863 | \$19,981,118 | 0.0% | 58 | 121 | 69 | 248 | | 224,195 | 28,512 | 51,128 | 80,569 | 0.0% | 65.1% | 17.3% | 17.7% | 100% |
| 2012 | \$6,158,572 | \$4,742,105 | \$2,192,611 | \$13,093,288 | 3.1% | 55 | 123 | 70 | 248 | | 111,974 | 38,554 | 31,323 | 52,796 | 0.0% | 47.0% | 36.2% | 16.7% | 100% |
| 2013 | \$17,071,703 | \$7,036,362 | \$4,100,311 | \$28,208,376 | 6.2% | 60 | 122 | 66 | 248 | | 284,528 | 57,675 | 62,126 | 113,743 | 0.0% | 60.5% | 24.9% | 14.5% | 100% |
| 2014 | \$6,363,602 | \$2,731,379 | \$3,966,536 | \$13,061,517 | 3.1% | 49 | 127 | 65 | 241 | | 129,869 | 21,507 | 61,024 | 54,197 | 0.0% | 48.7% | 20.9% | 30.4% | 100% |
| 2015 | \$15,654,563 | \$813,100 | \$4,609,371 | \$21,077,034 | 1.1% | 57 | 119 | 68 | 244 | | 274,641 | 6,833 | 67,785 | 86,381 | 0.0% | 74.3% | 3.9% | 21.9% | 100% |
| 2016 | \$6,499,634 | \$1,437,050 | \$4,112,233 | \$12,048,917 | 2.0% | 49 | 119 | 68 | 236 | | 132,646 | 12,076 | 60,474 | 51,055 | 0.0% | 53.9% | 11.9% | 34.1% | 100% |
| 2017 | \$33,490,700 | \$3,271,988 | \$5,221,775 | \$41,984,463 | | 55 | 117 | 69 | 241 | | 608,922 | 27,966 | 75,678 | 174,209 | | 79.8% | 7.8% | 12.4% | 100% |
| 2018 | \$8,349,012 | \$1,671,428 | \$1,752,344 | \$11,772,784 | 1.8% | 54 | 132 | 63 | 249 | | 154,611 | 12,662 | 27,815 | 47,280 | 0.0% | 70.9% | 14.2% | 14.9% | 100% |
| 2019 | \$22,217,679 | \$959,302 | \$3,524,209 | \$26,701,190 | 6.7% | 71 | 121 | 66 | 258 | | 312,925 | 7,928 | 53,397 | 103,493 | 0.0% | 83.2% | 3.6% | 13.2% | 100% |
| 2020 | \$22,186,409 | \$955,508 | \$3,521,885 | \$26,663,802 | 6.7% | 64 | 120 | 60 | 244 | | 346,663 | 7,963 | 58,698 | 109,278 | 0.0% | 83.2% | 3.6% | 13.2% | 100% |
| 2021 | \$20,116,435 | \$17,726,301 | \$2,089,618 | \$39,932,354 | 9.9% | 69 | 124 | 54 | 247 | | 291,543 | 142,954 | 38,697 | 161,669 | 0.0% | 50.4% | 44.4% | 5.2% | 100% |
| 2022 | \$24,317,121 | \$7,008,081 | \$1,981,465 | \$33,306,667 | 3.3% | 72 | 127 | 46 | 245 | | 337,738 | 55,182 | 43,075 | 135,946 | 0.0% | 73.0% | 21.0% | 5.9% | 100% |
| | | | | | | | | | | | | | | | | | | | |
| 5- yr avg | 19,437,331 | 5,664,124 | 2,573,904 | 27,675,359 | | 66 | 125 | 58 | 249 | | 288,696 | 45,338 | 44,336 | 111,533 | | 72.1% | 17.4% | 10.5% | 100% |
| 10-yr avg | 17,626,686 | 4,361,050 | 3,487,975 | 25,475,710 | | 60 | 123 | 63 | 245 | | 287,409 | 35,275 | 54,877 | 103,725 | | 67.8% | 15.6% | 16.6% | 100% |

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Note that the difference between the Ex-Vessel value and the CFEC estimate of average real earnings of permits with landings is quite different. In 2021 the ex-vessel value paid to each purse seine permit was \$337,738 while the CFEC reported the real earnings at \$702,125.