

Kodiak Salmon Overview & Westside Kodiak Salmon Management Plan



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A Report to the Alaska Board
of Fisheries; January 2017
Division of Commercial
Fisheries

Oral Report: RC 3; Tab 2
Staff Comments: RC 2; Tab 11

Ayakulik River; Brad Fuerst

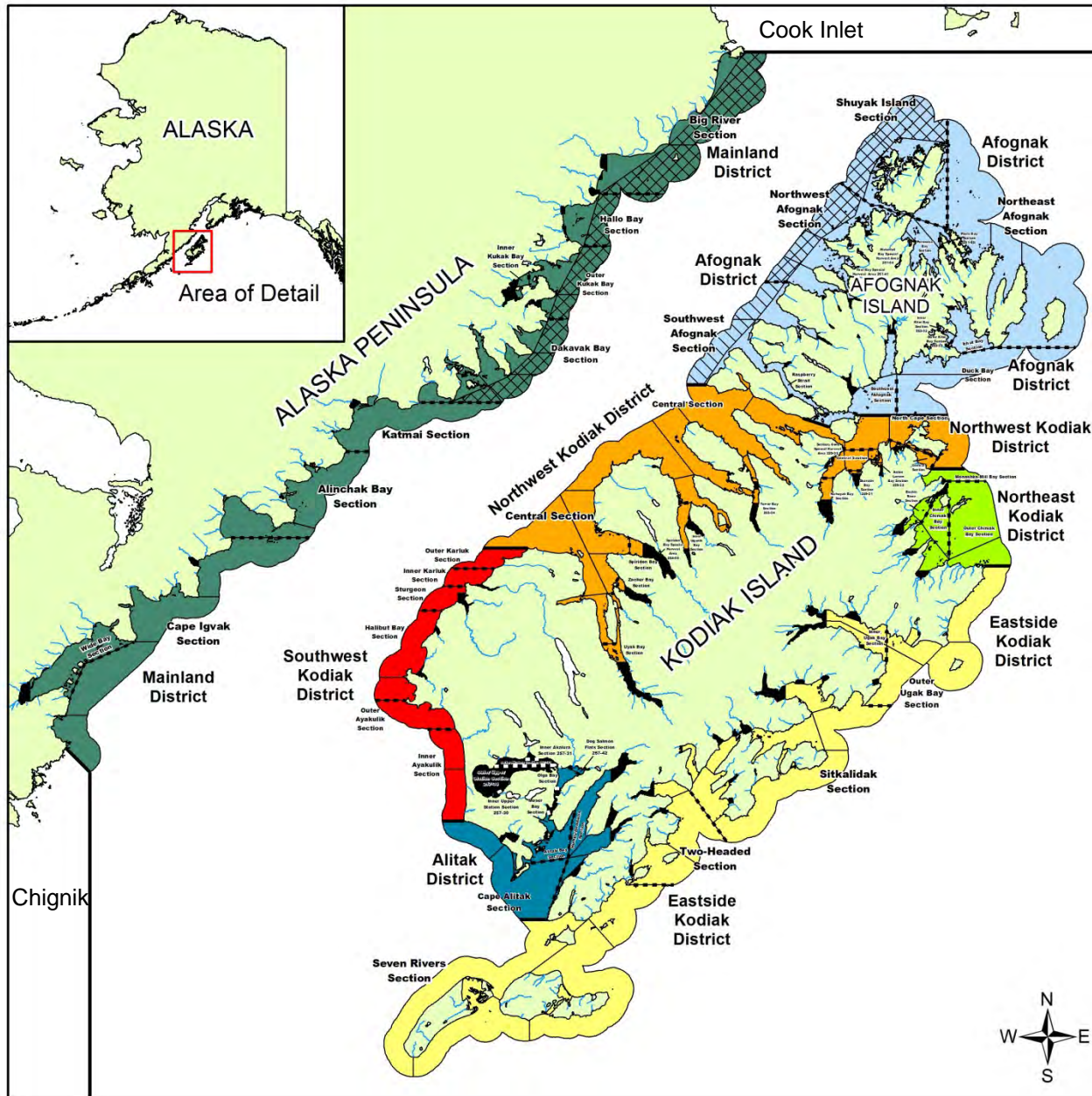
KMA Overview Topics

1. Description of Kodiak Salmon Fishery
2. Average Run Timing by Species
3. Catch and Escapement by Species

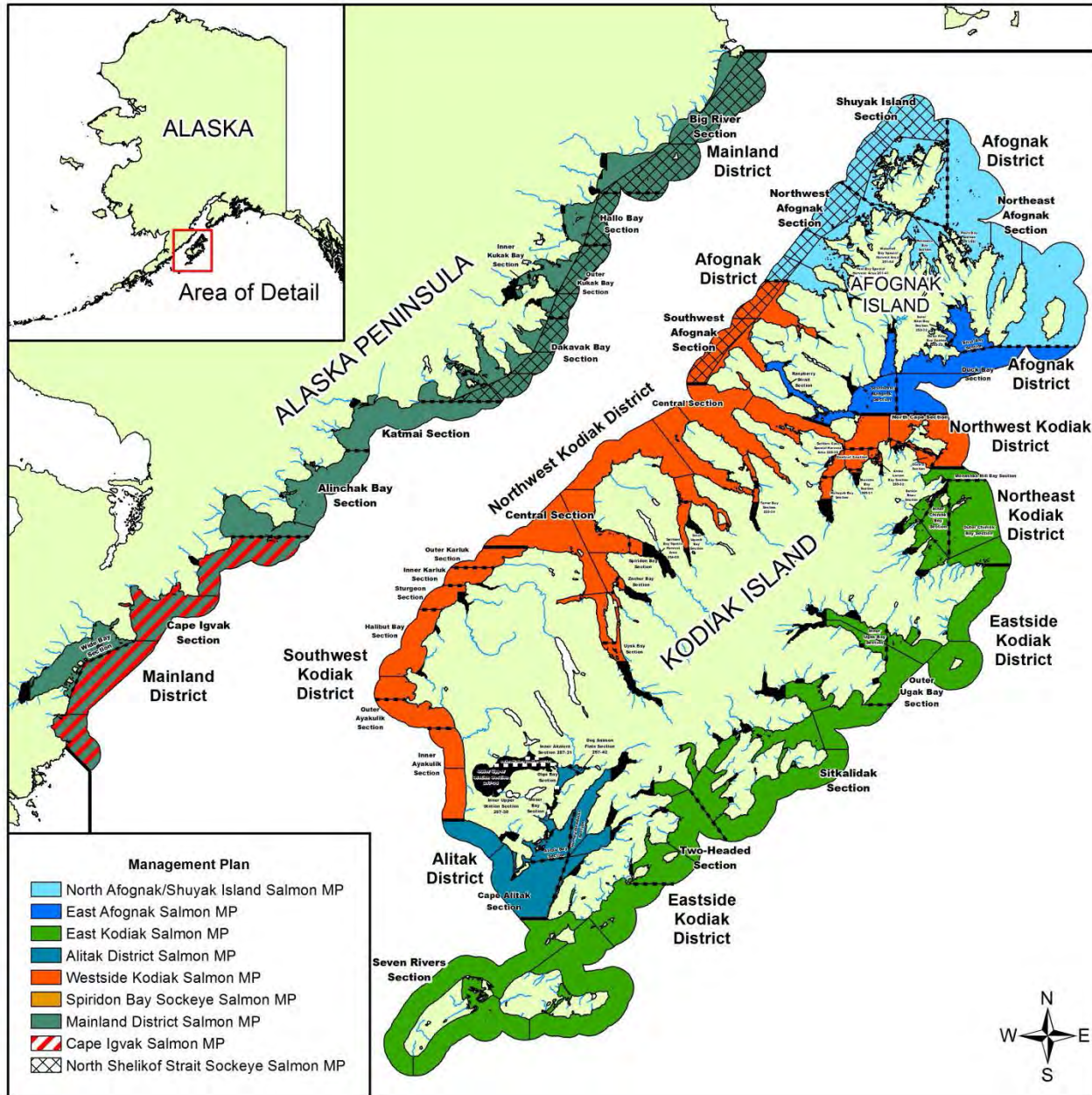
Westside Management Topics

1. Karluk Early Run
2. Ayakulik Early Run
3. Pink Salmon Management
4. Spiridon Bay
5. Karluk Late Run

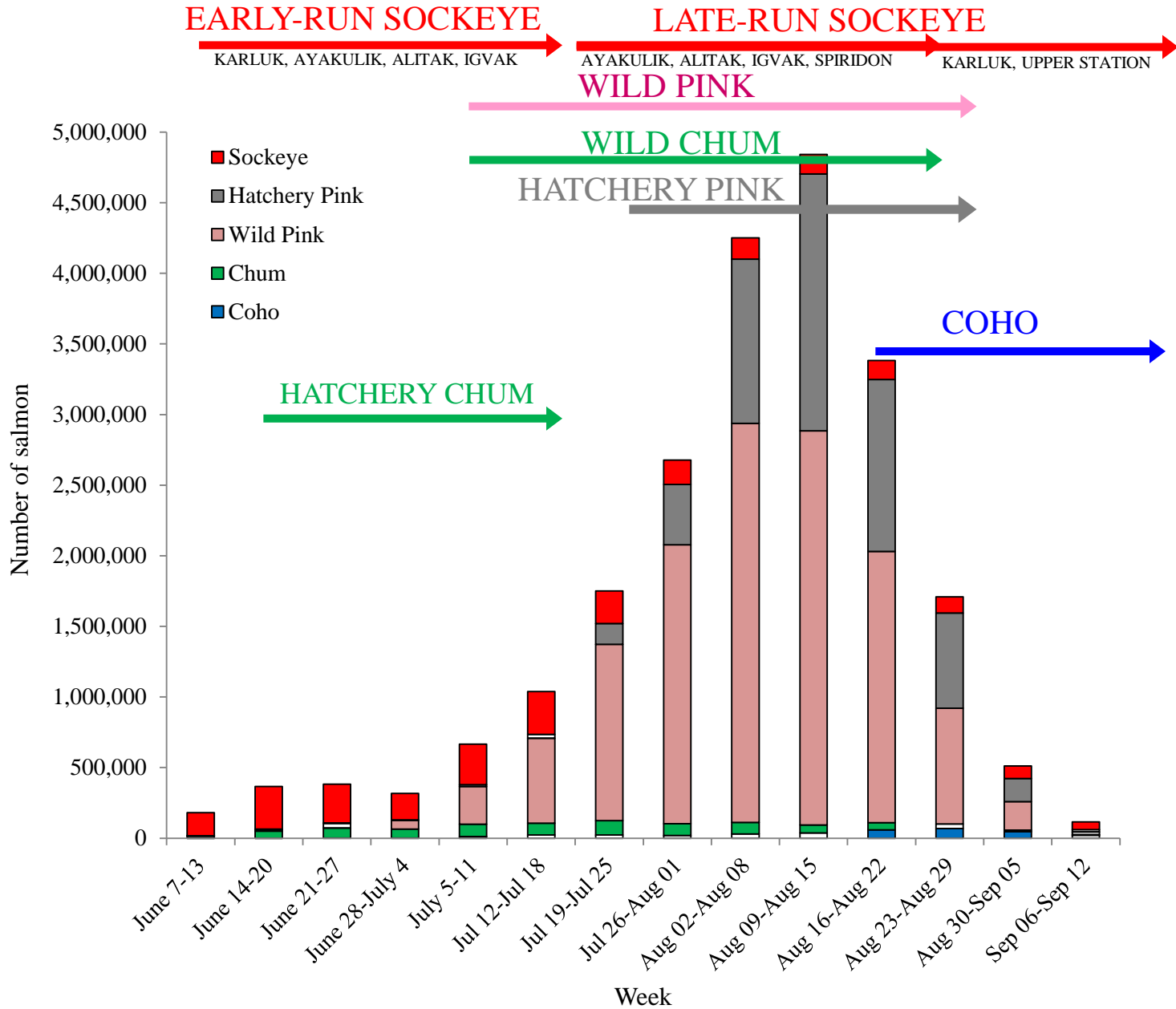
KMA Salmon Districts



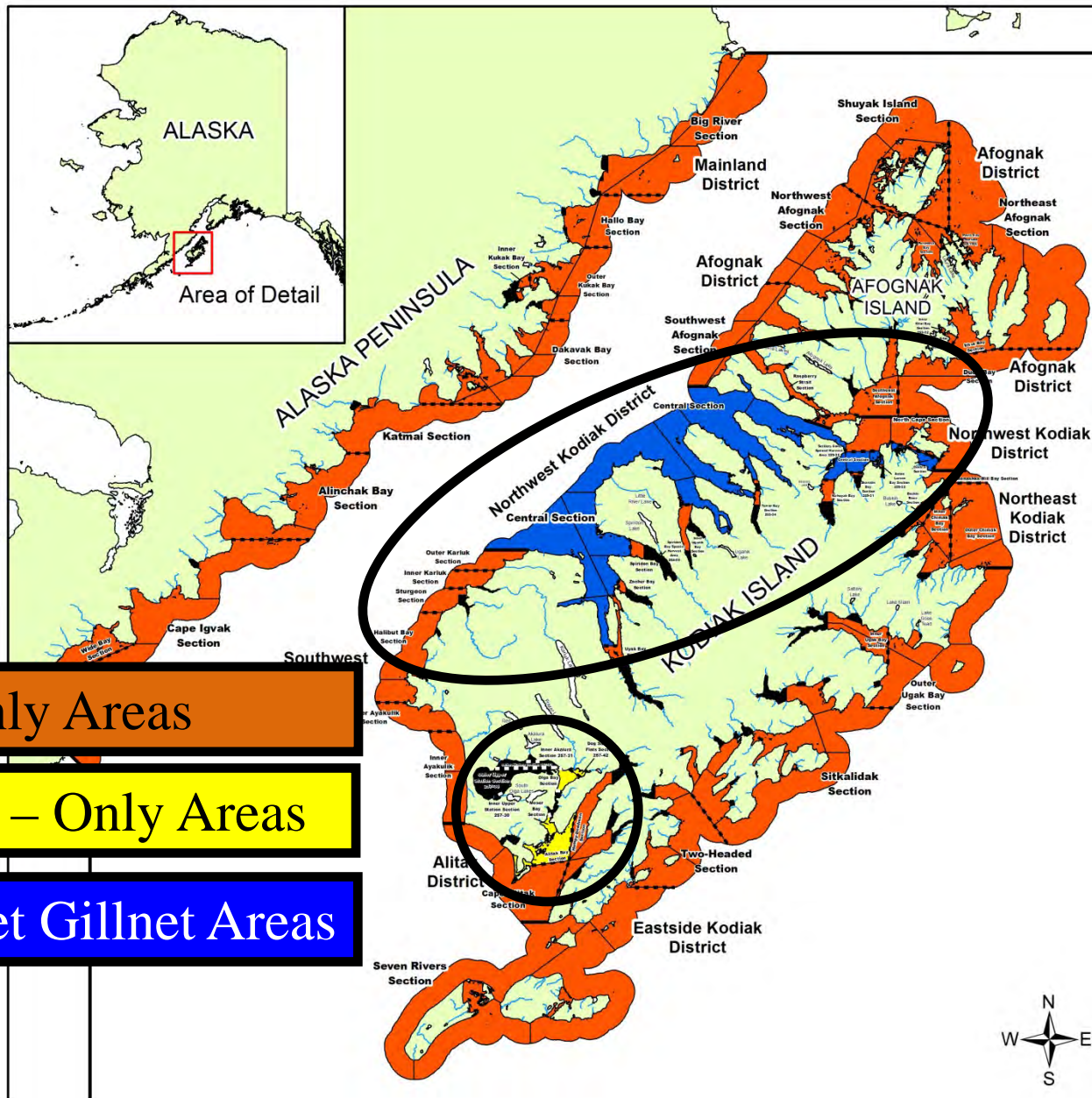
KMA Salmon Management Plans



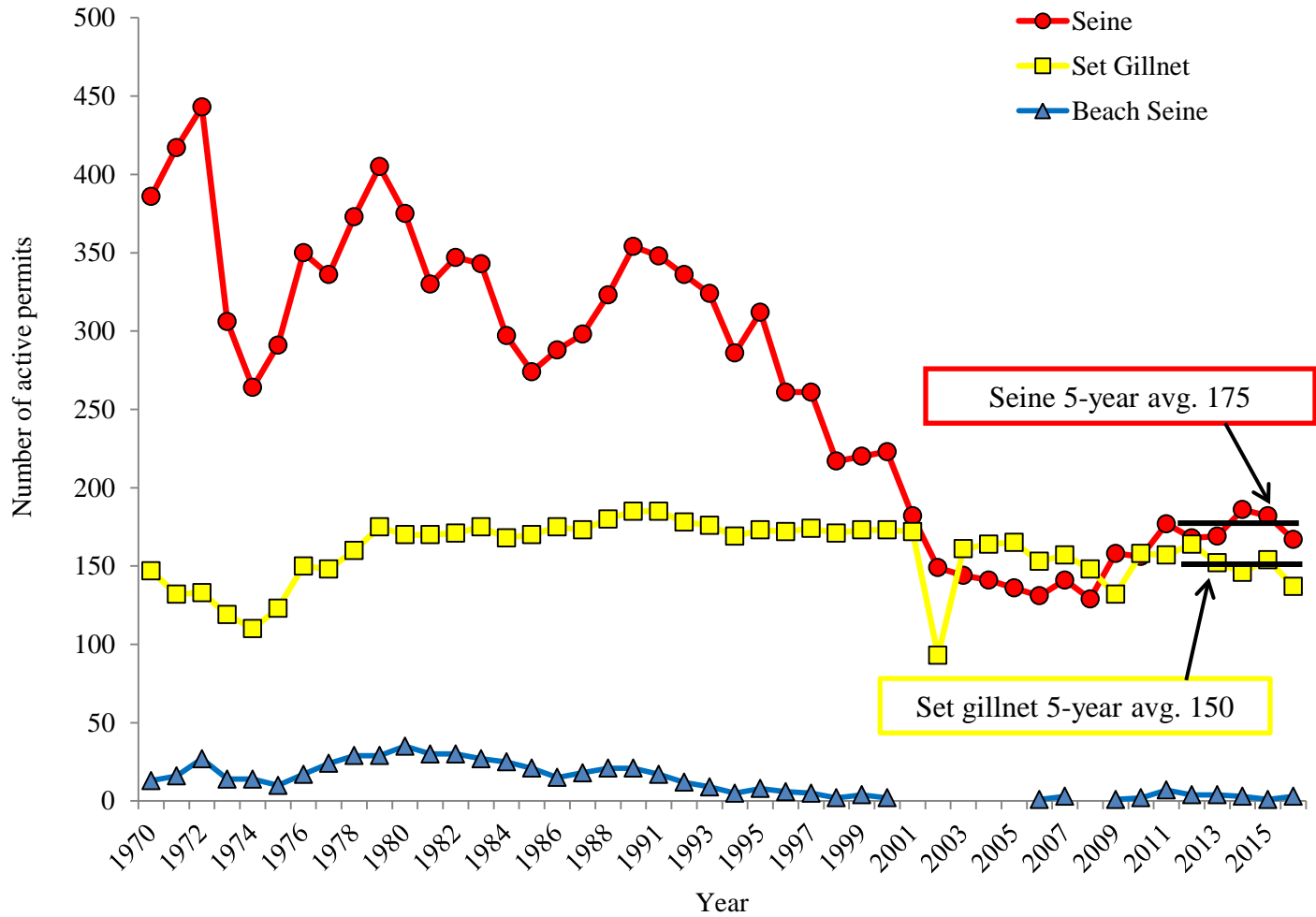
Average Weekly Salmon Harvest for the KMA, 1997-2016



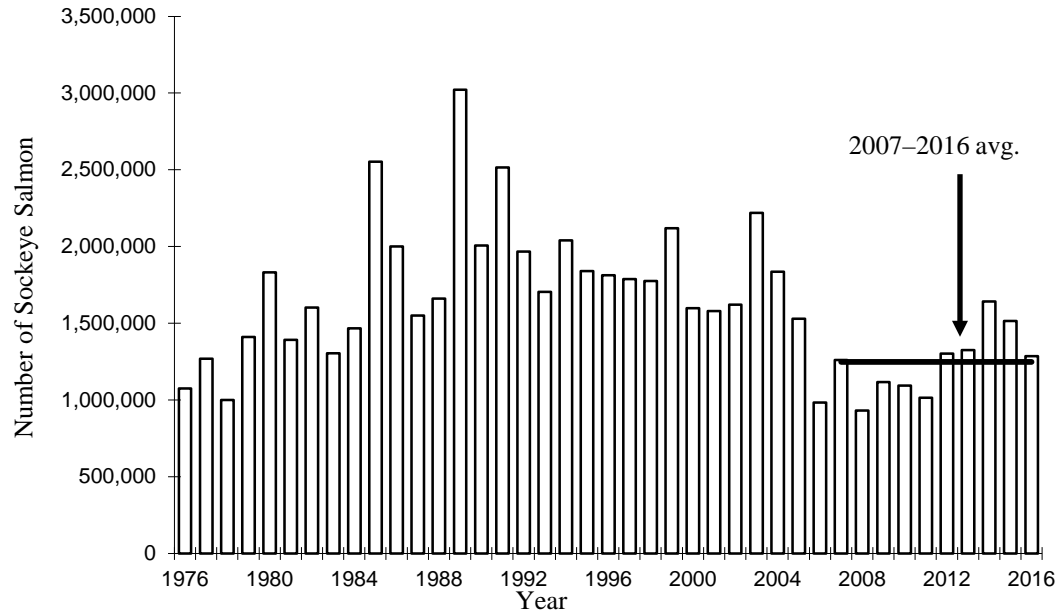
Seine & Set Gillnet Areas of KMA



Number of KMA Commercial Salmon Permits Fished



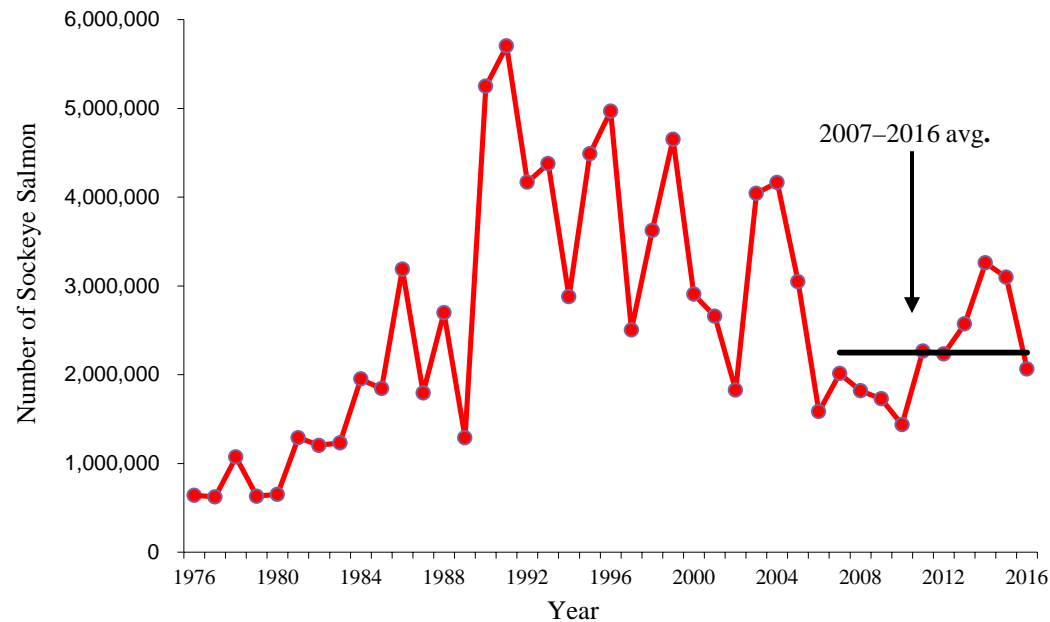
Kodiak Sockeye Salmon Escapement



Kodiak Sockeye Salmon Escapement

- Moderate Karluk & Ayakulik recovery began in 2012
- 2007–2016 avg. escapement of 1,250,000
- 2007–2016 avg. 85% of KMA (or 1,050,000) escapement from Karluk, Ayakulik, Upper Station, and Frazer

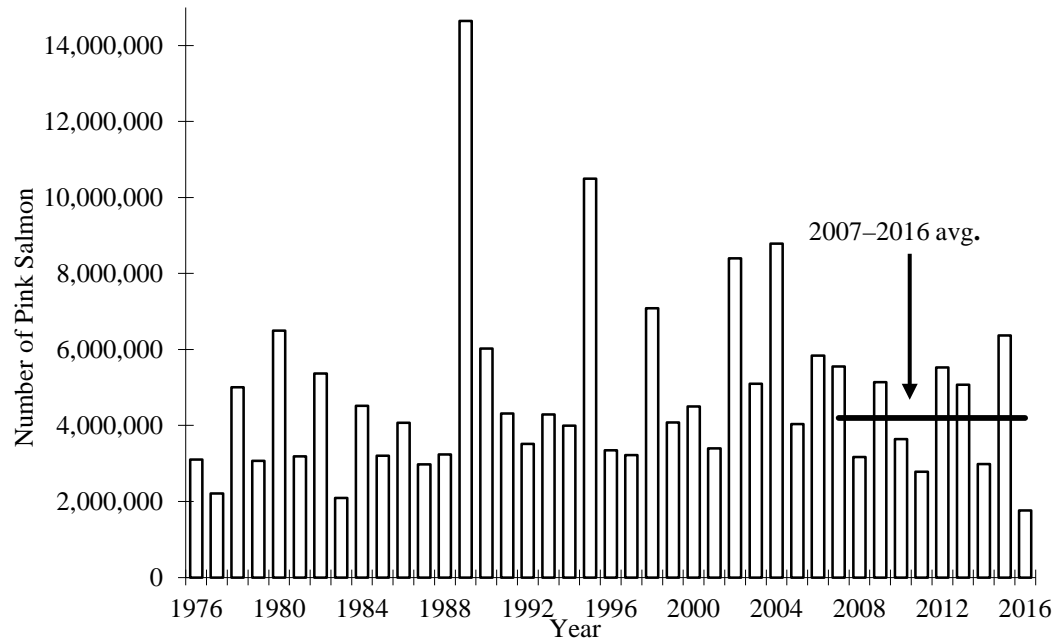
Kodiak Sockeye Salmon Harvest



Kodiak Sockeye Salmon Harvest

- Above average harvest two of the past three years
- 2007–2016 avg. harvest of 2,250,000
- 2007–2016 avg. 70% (or 1,800,000) of KMA sockeye salmon harvest from Westside, Igvak, and Alitak

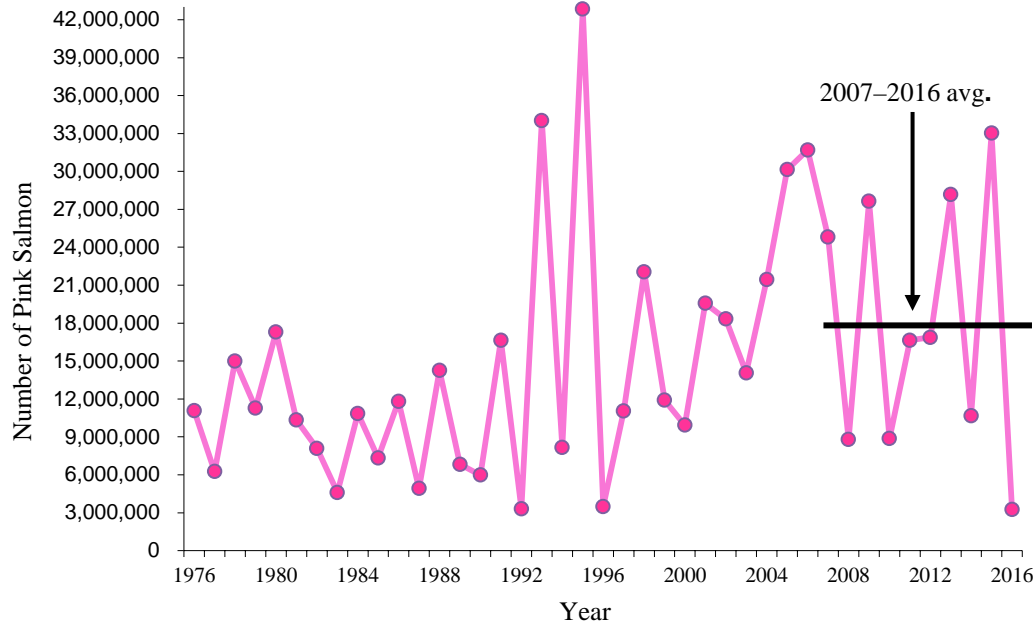
Kodiak Pink Salmon Escapement



Kodiak Pink Salmon Escapement

- Since 2007, odd-year dominance
- 2007-2016 avg. escapement of 4,200,000 fish
- 2016 KMA pink salmon escapement was 75% minimum escapement

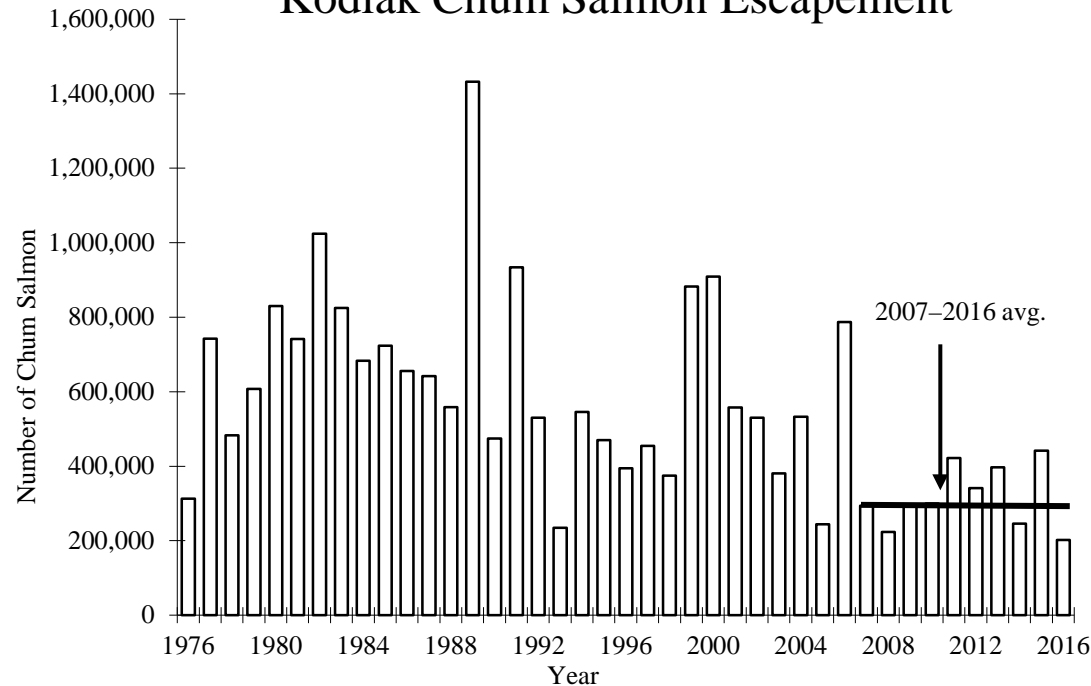
Kodiak Pink Salmon Harvest



Kodiak Pink Salmon Harvest

- Variable relative abundance
- Harvest of 33 million (2015) to 3.2 million (2016)
- 2007-2016 avg. 70% of KMA pink salmon harvested in non-hatchery areas
- 2007-2016 avg. harvest of 18,000,000 fish

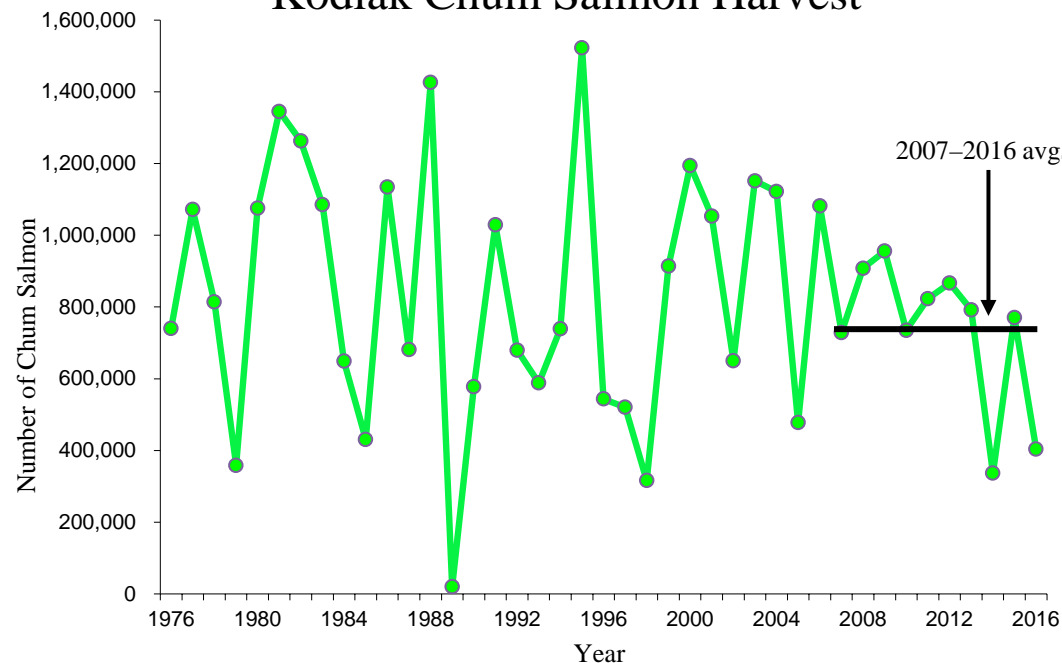
Kodiak Chum Salmon Escapement



Kodiak Chum Salmon Escapement

- 2007–2016 avg. escapement of 317,000 fish
- Part of recent low escapement numbers reflect less aerial surveys

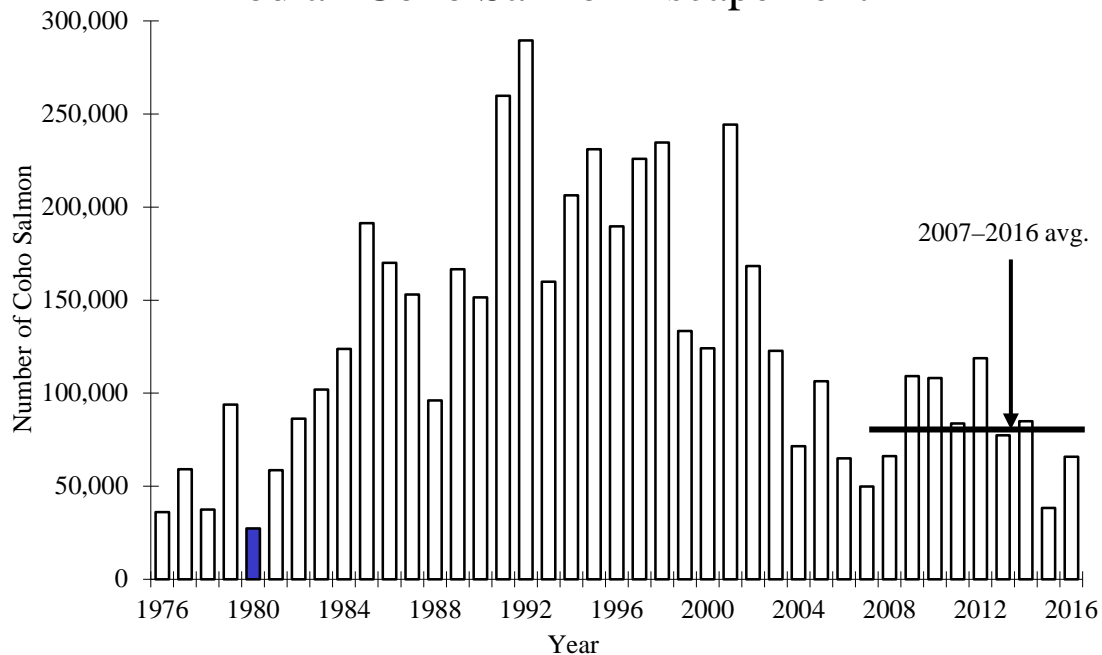
Kodiak Chum Salmon Harvest



Kodiak Chum Salmon Harvest

- 2017 – 2016 avg. 80% KMA chum are harvested in non-hatchery areas
- 2007–2016 avg. harvest of 732,000 fish
- Low harvest in 2014 and 2016 partially due to weak pink run

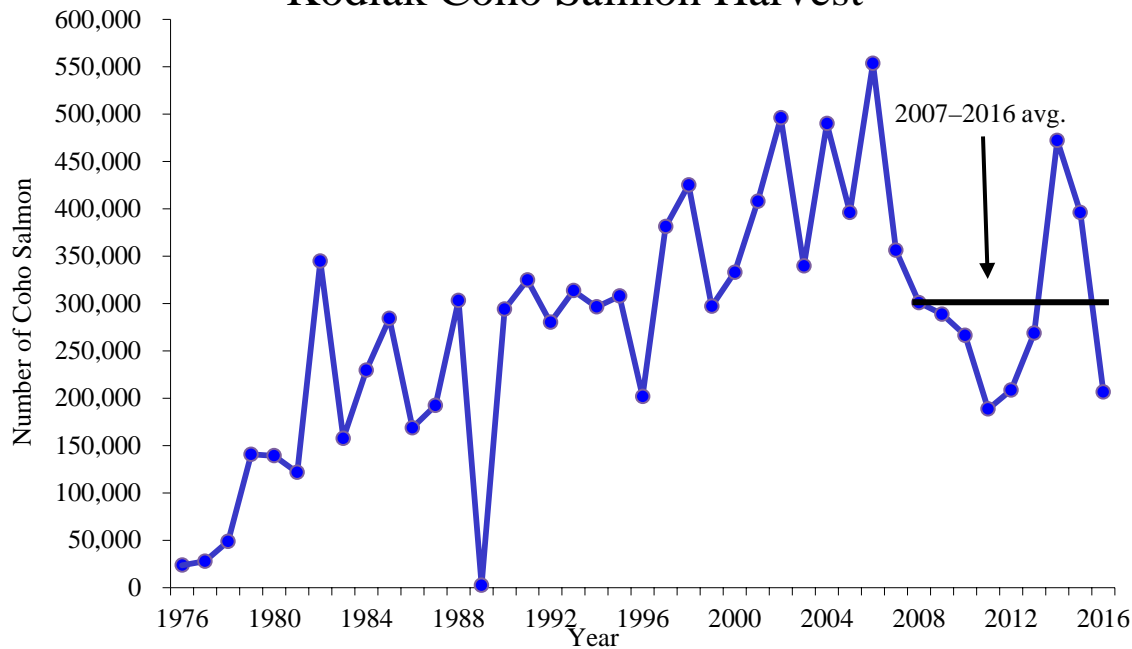
Kodiak Coho Salmon Escapement



Kodiak Coho Salmon Escapement

- 2007-2016 avg. 80,000
- Part of recent low escapement numbers reflect less aerial surveys

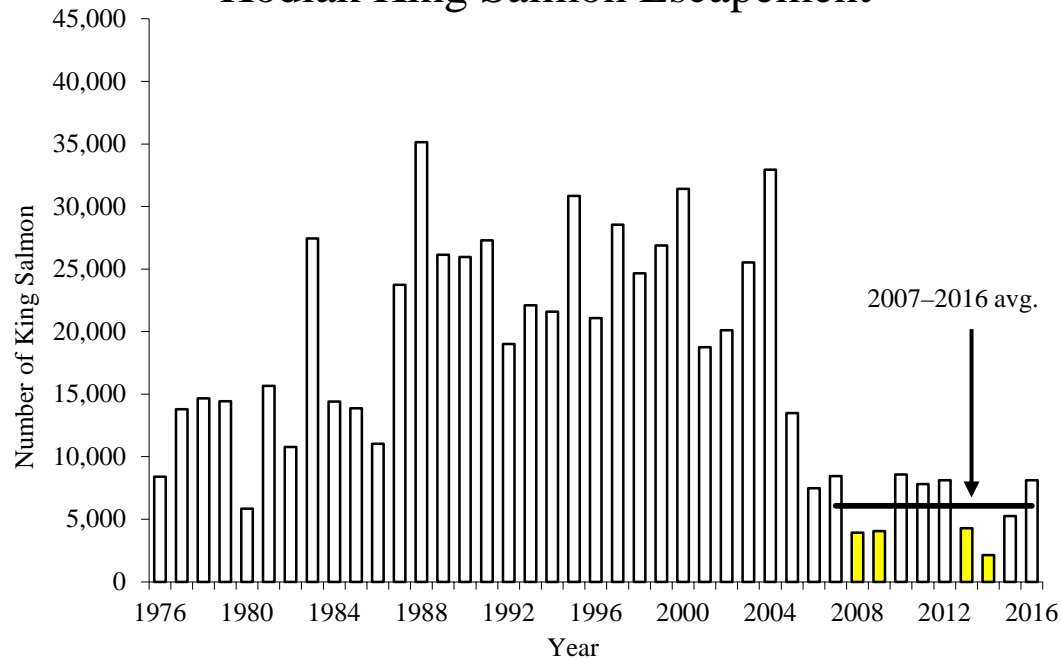
Kodiak Coho Salmon Harvest



Kodiak Coho Salmon Harvest

- 2007-2016 avg. 295,000
- 2007-2016 avg. 68% of KMA coho salmon harvested in non-hatchery areas

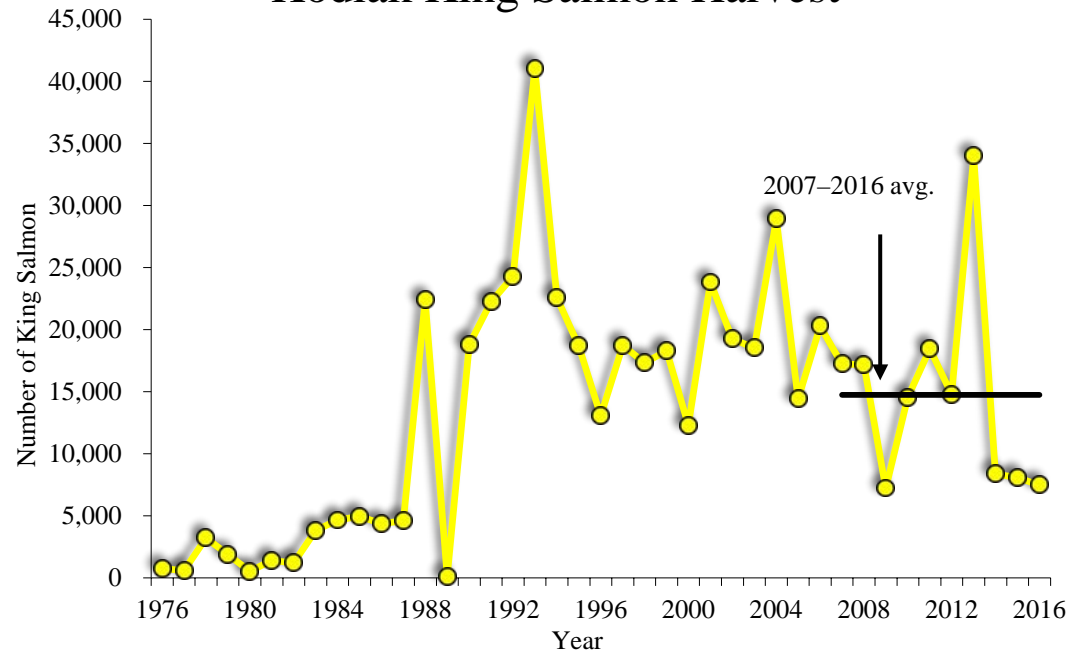
Kodiak King Salmon Escapement



Kodiak King Salmon Escapement

- Major systems are Karluk and Ayakulik Rivers
- 2007-2016 avg. of 6,100 fish

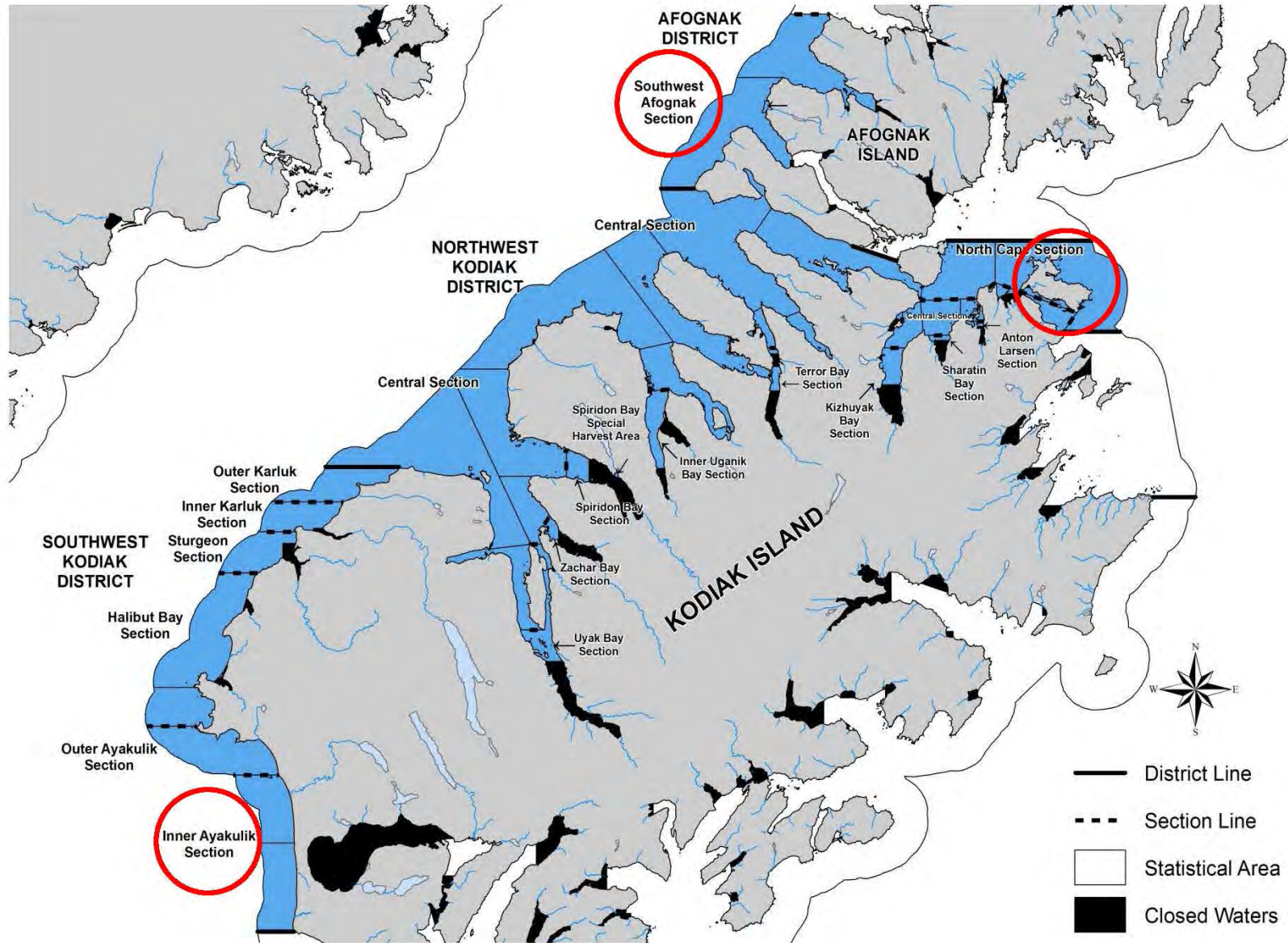
Kodiak King Salmon Harvest



Kodiak King Salmon Harvest

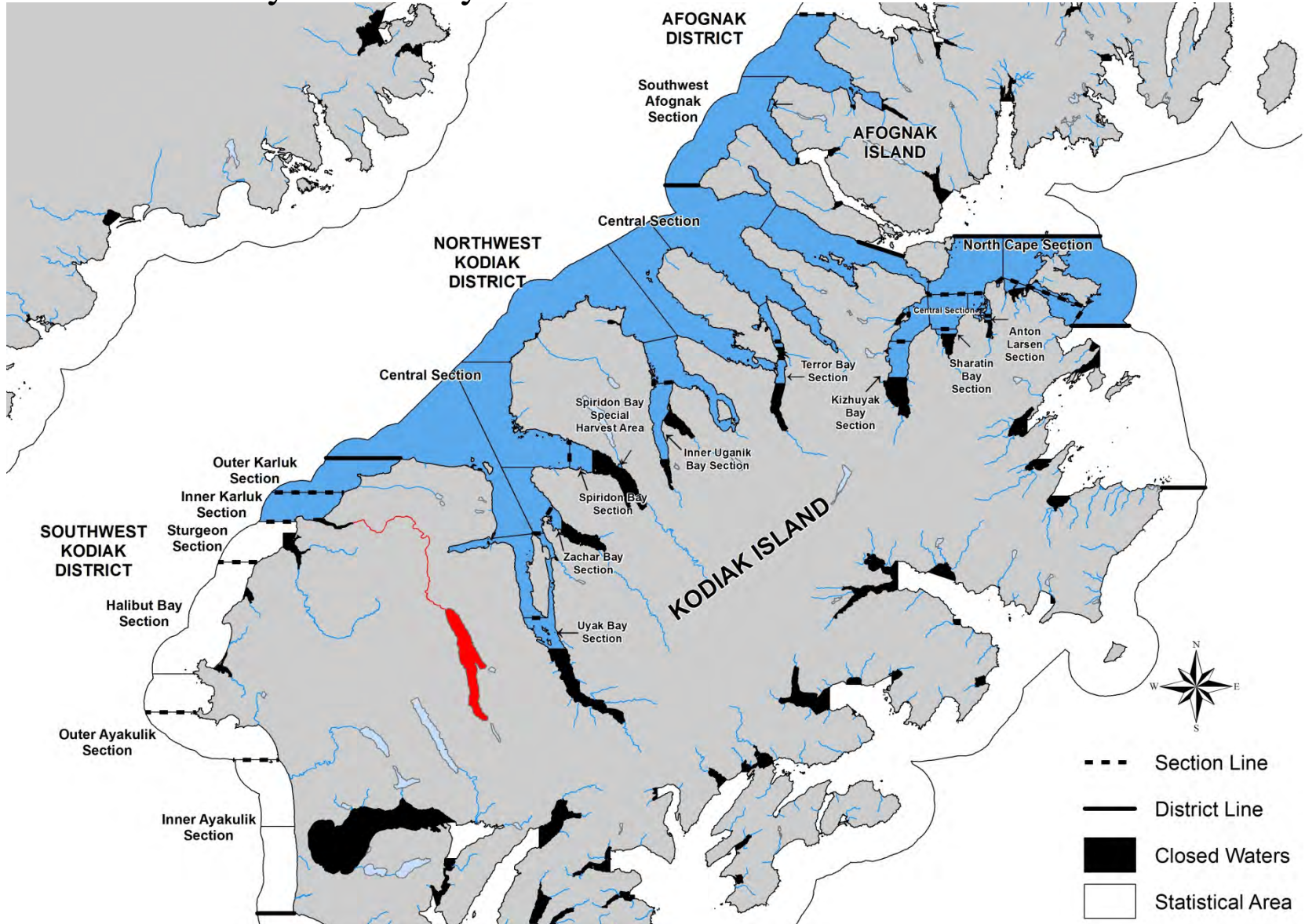
- 2007-2016 avg. 15,000 fish
- Decline in harvest the past three seasons

Westside Kodiak Salmon Management Plan



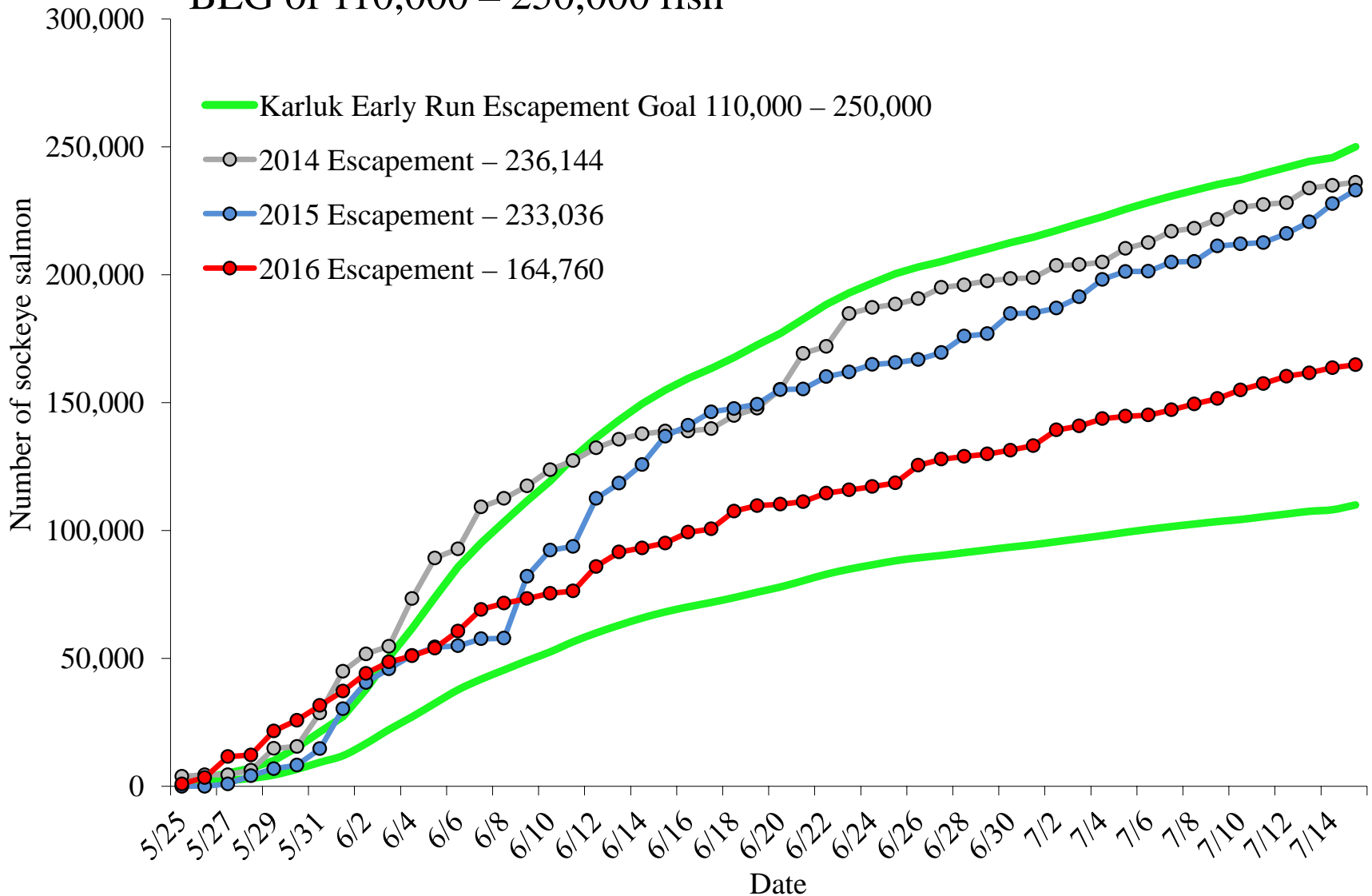
Karluk Early Run

- In June, the majority of the Westside is managed based on the Karluk early run sockeye salmon



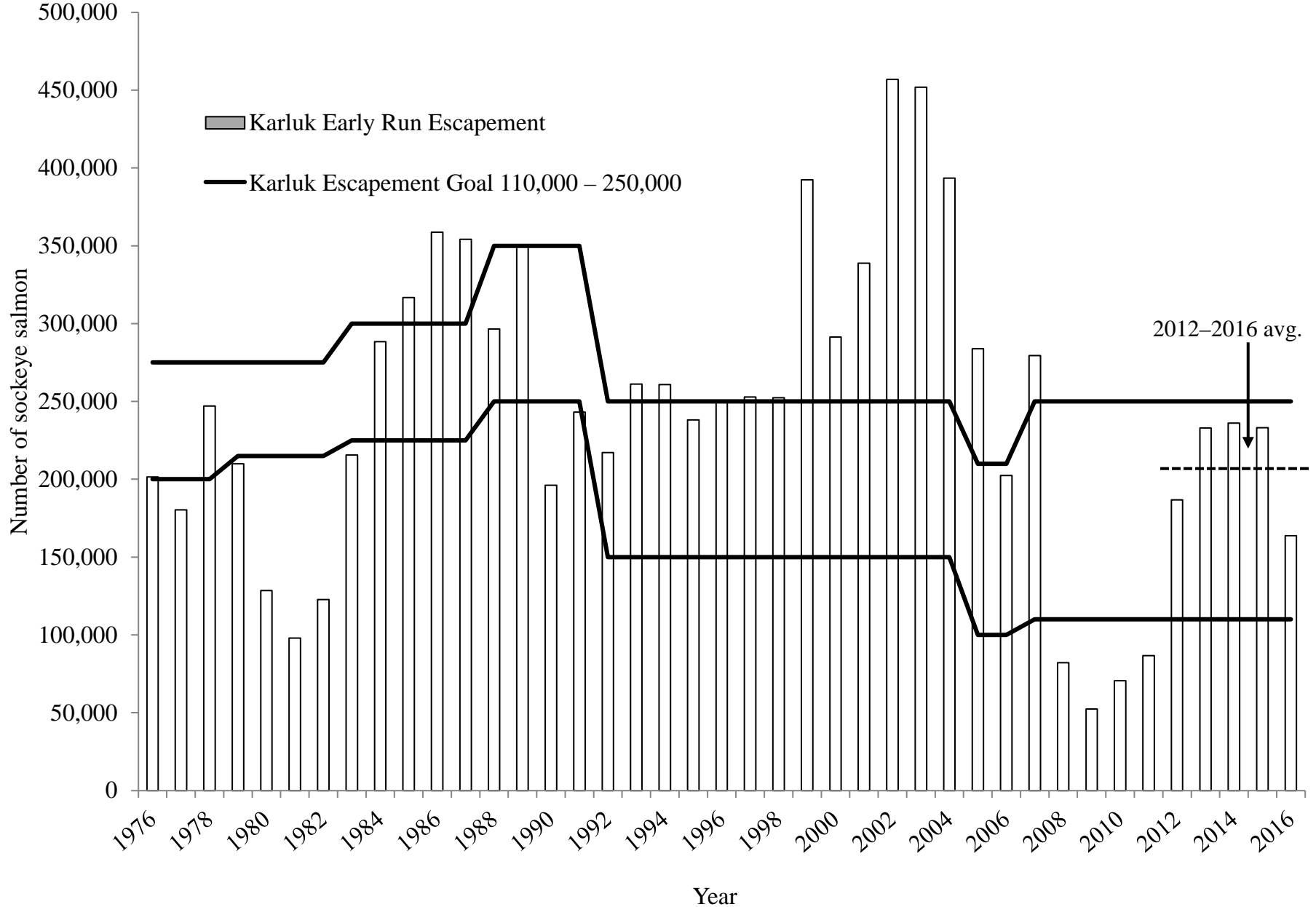
Karluk Early Run

- June 1– July 5 the majority of the Westside commercial salmon fishery is managed based on Karluk early run sockeye salmon BEG of 110,000 – 250,000 fish



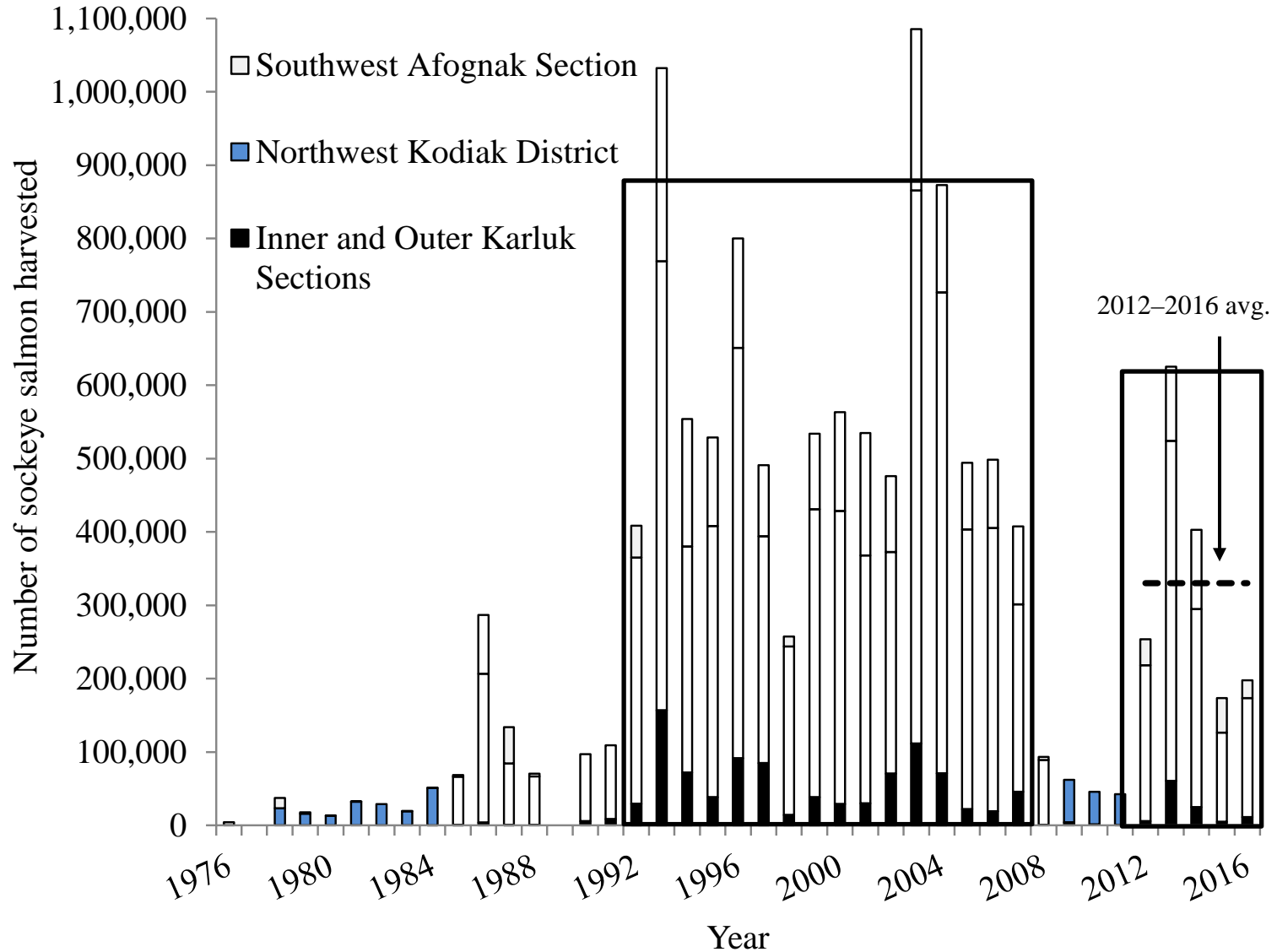
Karluk Early Run

- Achieved goal for the past 5 years; 5 – year avg. escapement of 201,000 fish



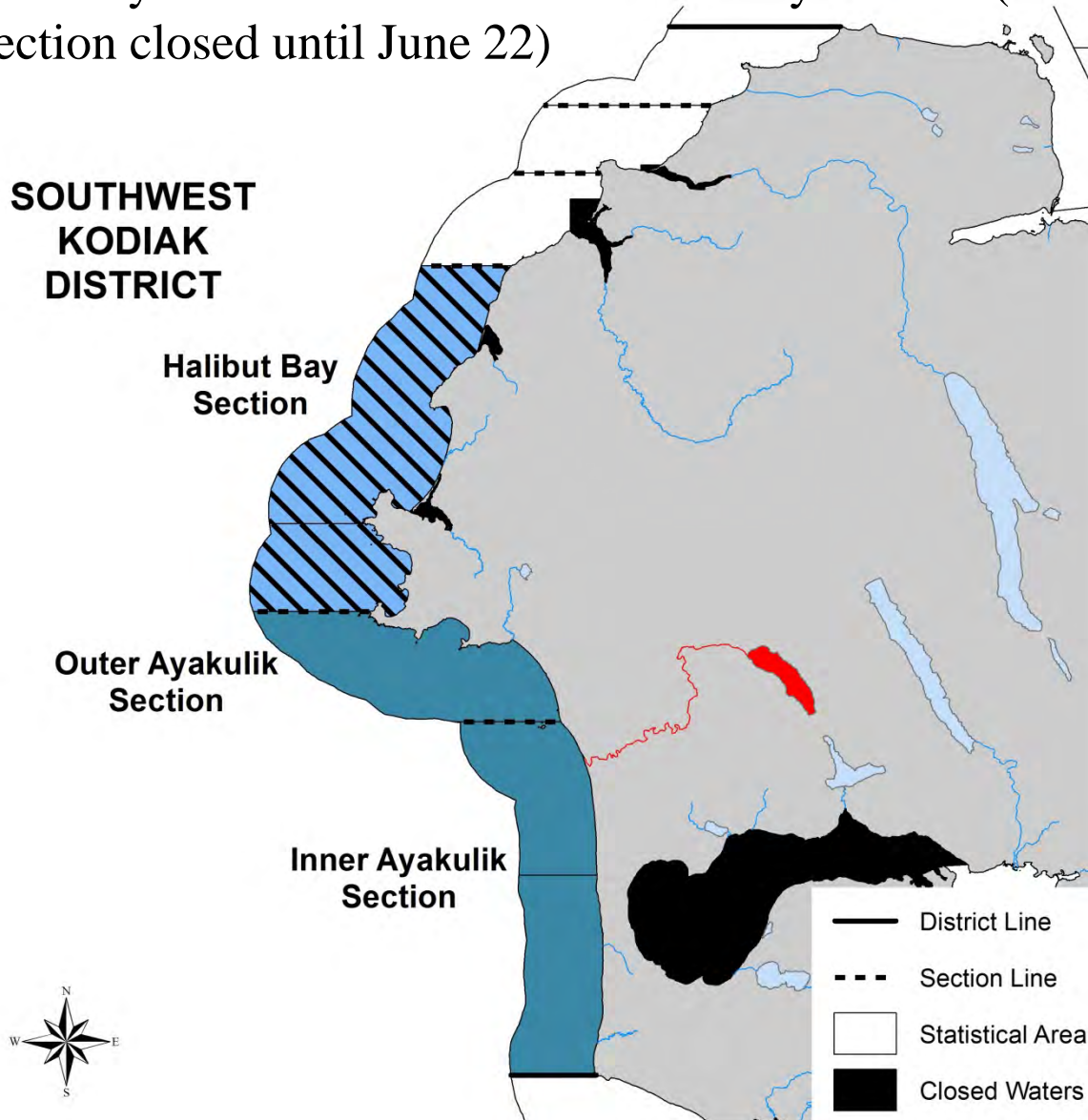
Karluk Early Run

- Variable harvest the past 5 years; 5 – year avg. of approximately 330,000 sockeye salmon



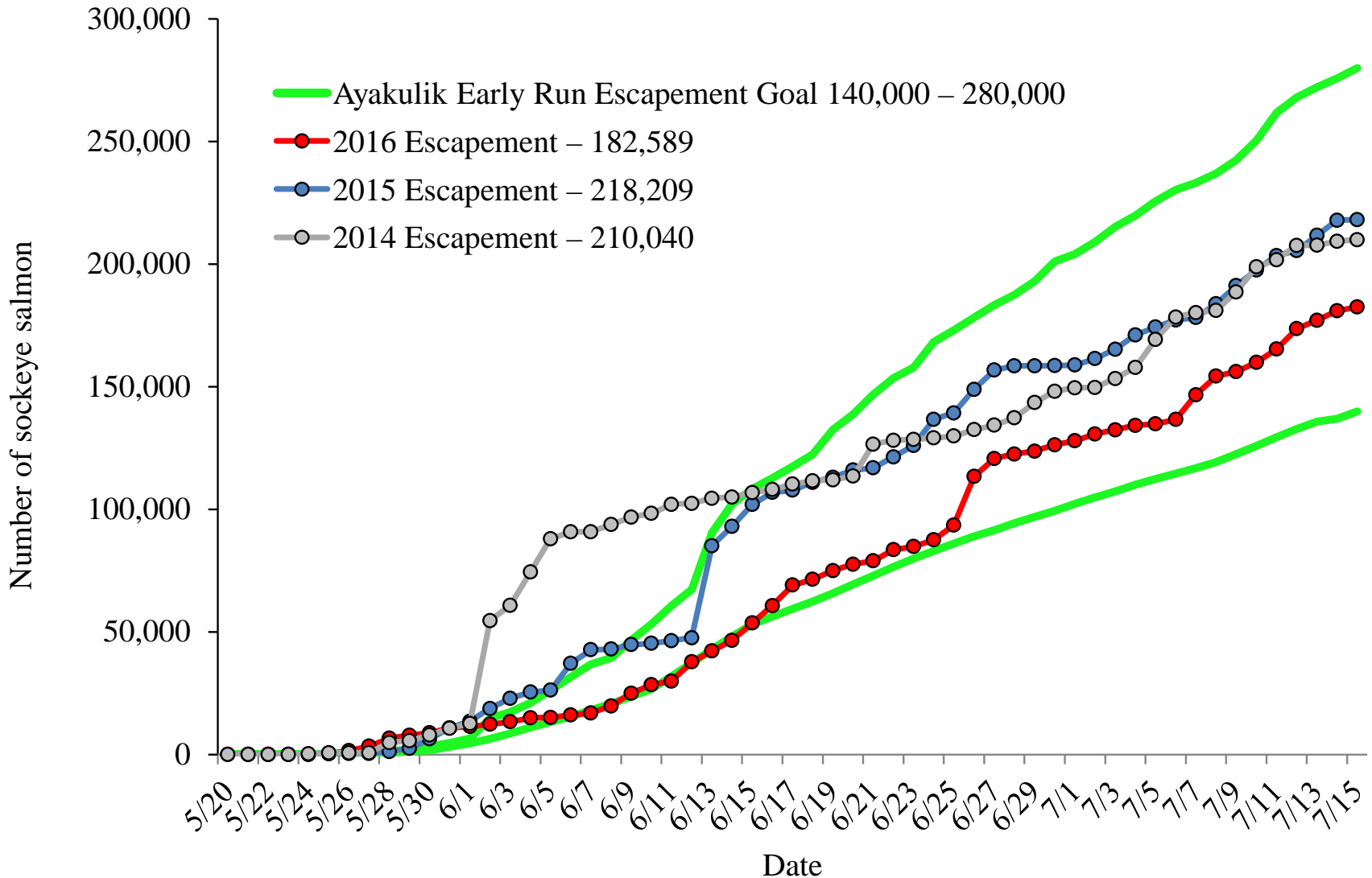
Ayakulik Early Run

- From June 1 – July 15, the commercial salmon fishery centered around the Ayakulik sections and Halibut Bay Section (Halibut Bay Section closed until June 22)



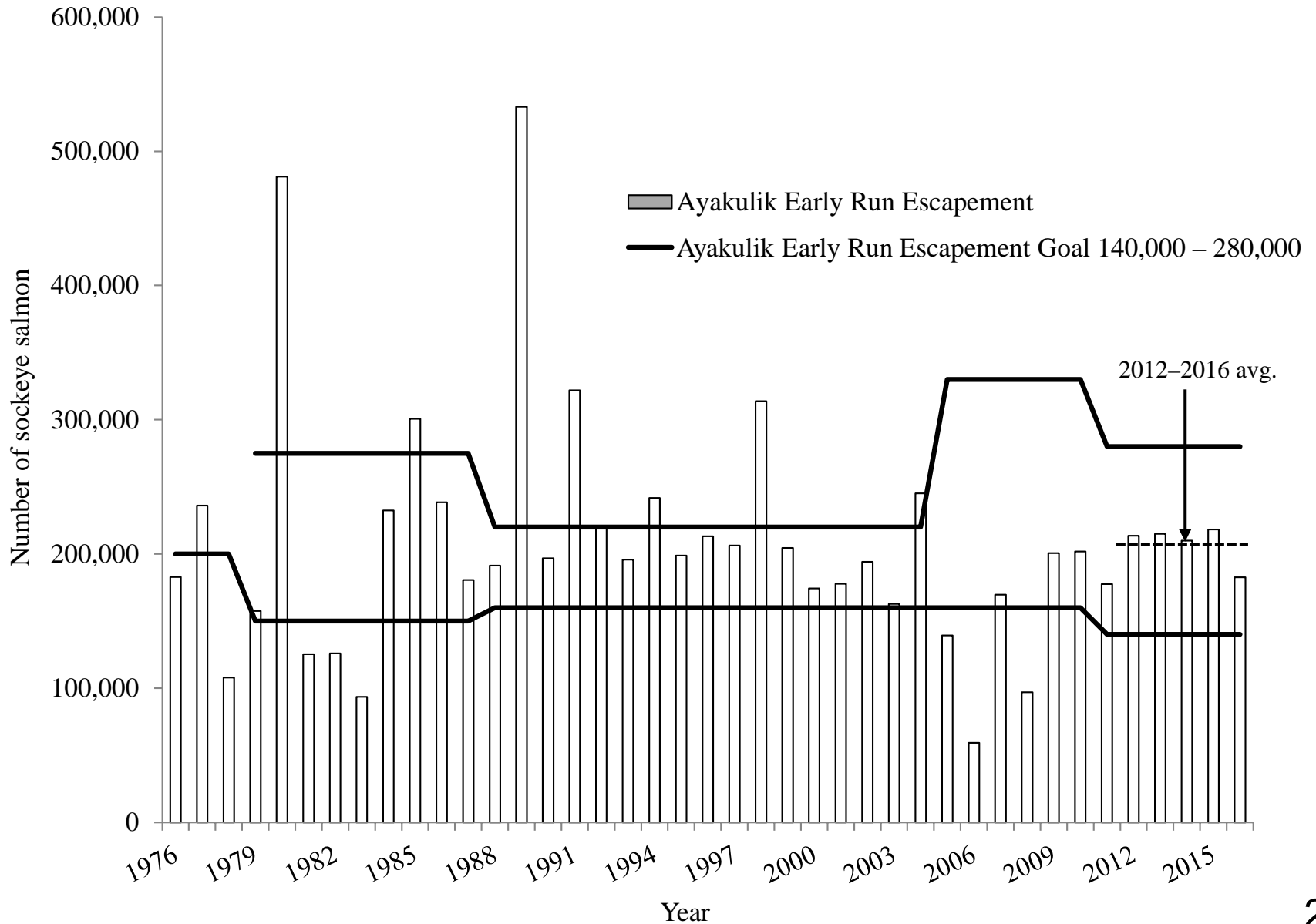
Ayakulik Early Run

- June 1 – July 15 commercial fishery managed based on Ayakulik early-run sockeye salmon (SEG) of 140,000-280,000 fish



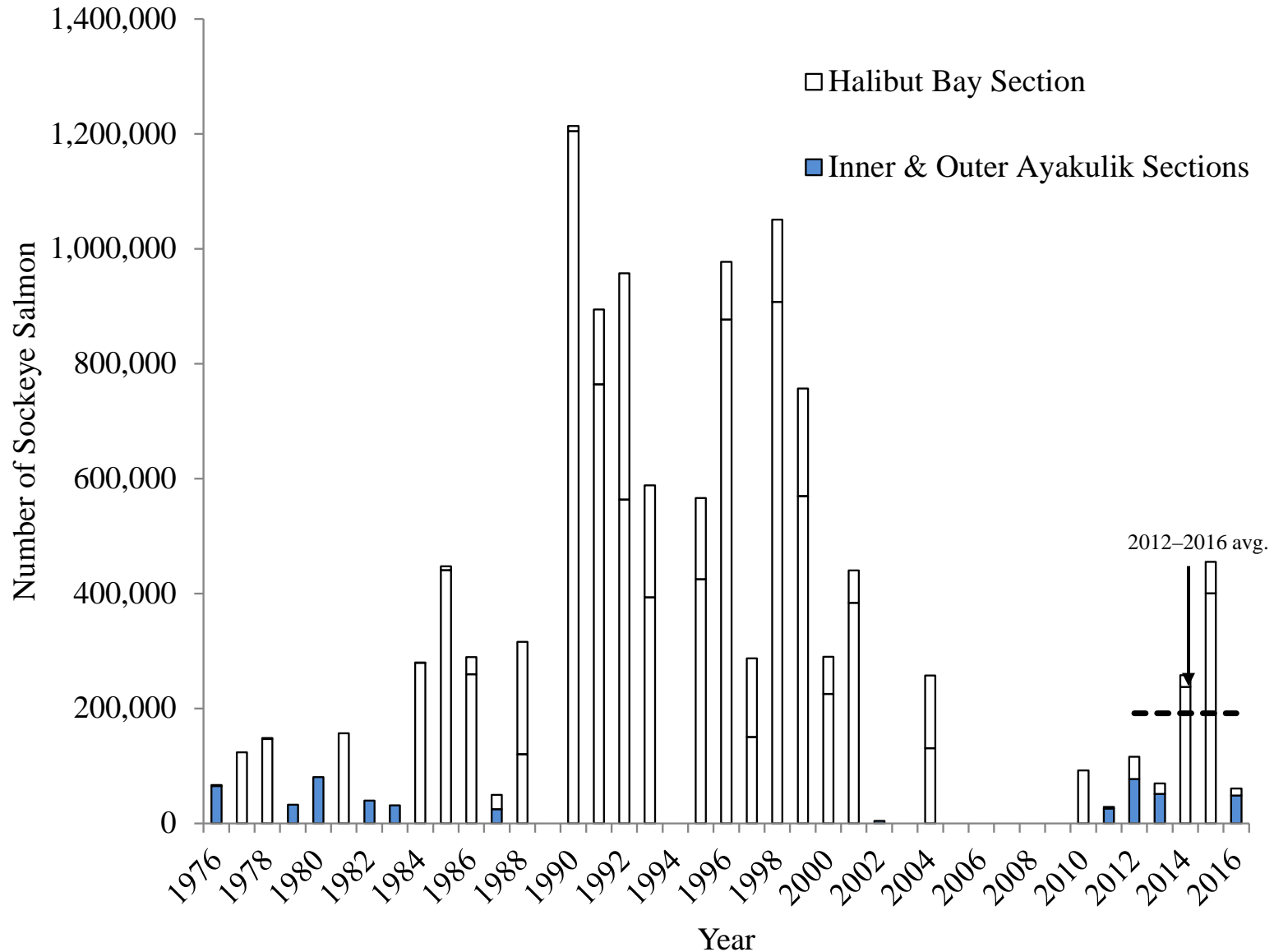
Ayakulik Early Run

- Achieved goal for the past 8 years, 5 – year avg. escapement of 208,000 fish



Ayakulik Early Run

- Variable harvest the past 5 years. 5 – year avg. harvest approximately 190,000 sockeye salmon

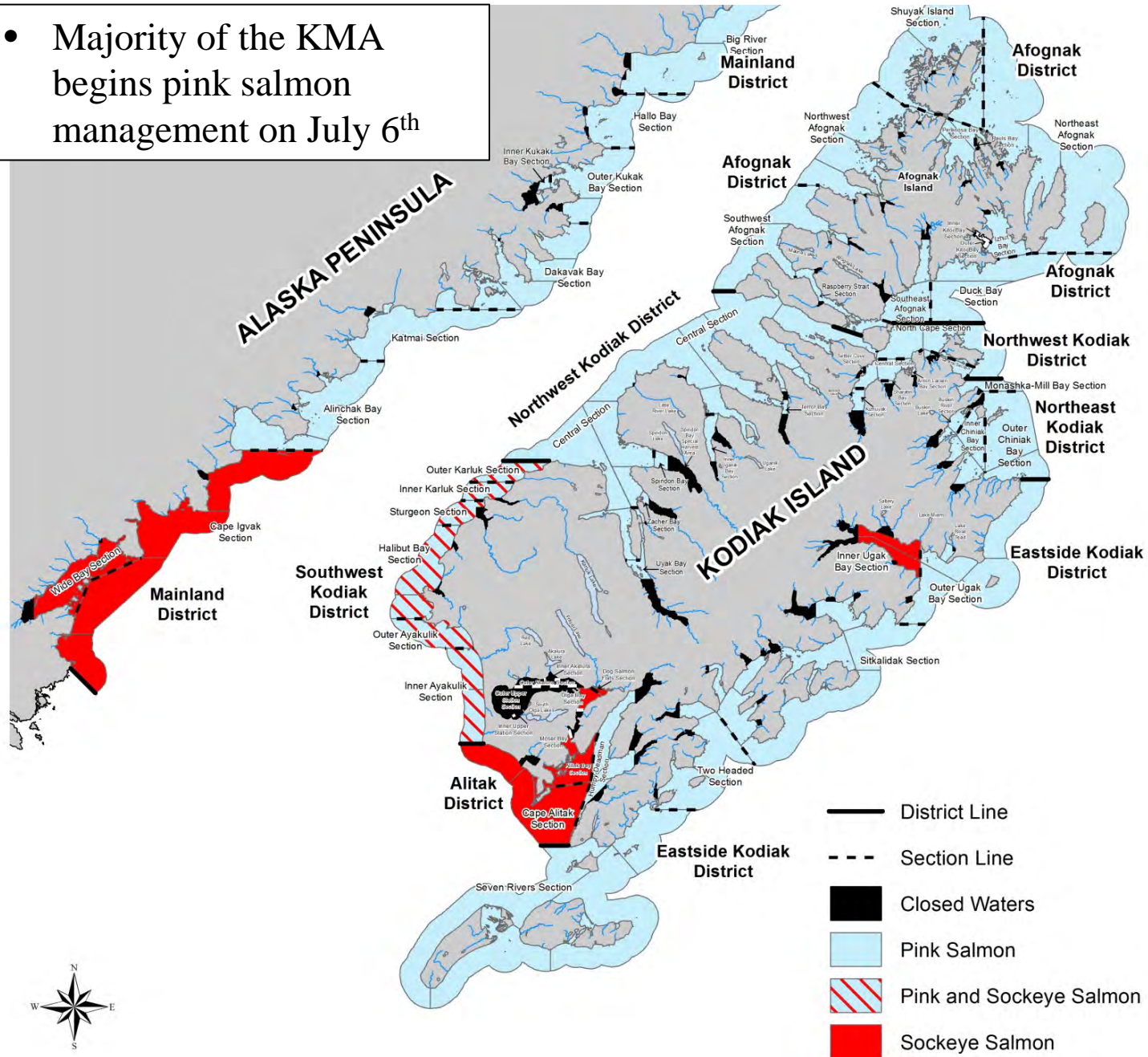


Kodiak Pink Salmon Harvest Strategy

- Area-wide July 6th fixed opening date
- Coordinate as many fisheries as possible to allow for dispersion of the seine fleet

Kodiak Pink Salmon Fishery

- Majority of the KMA begins pink salmon management on July 6th

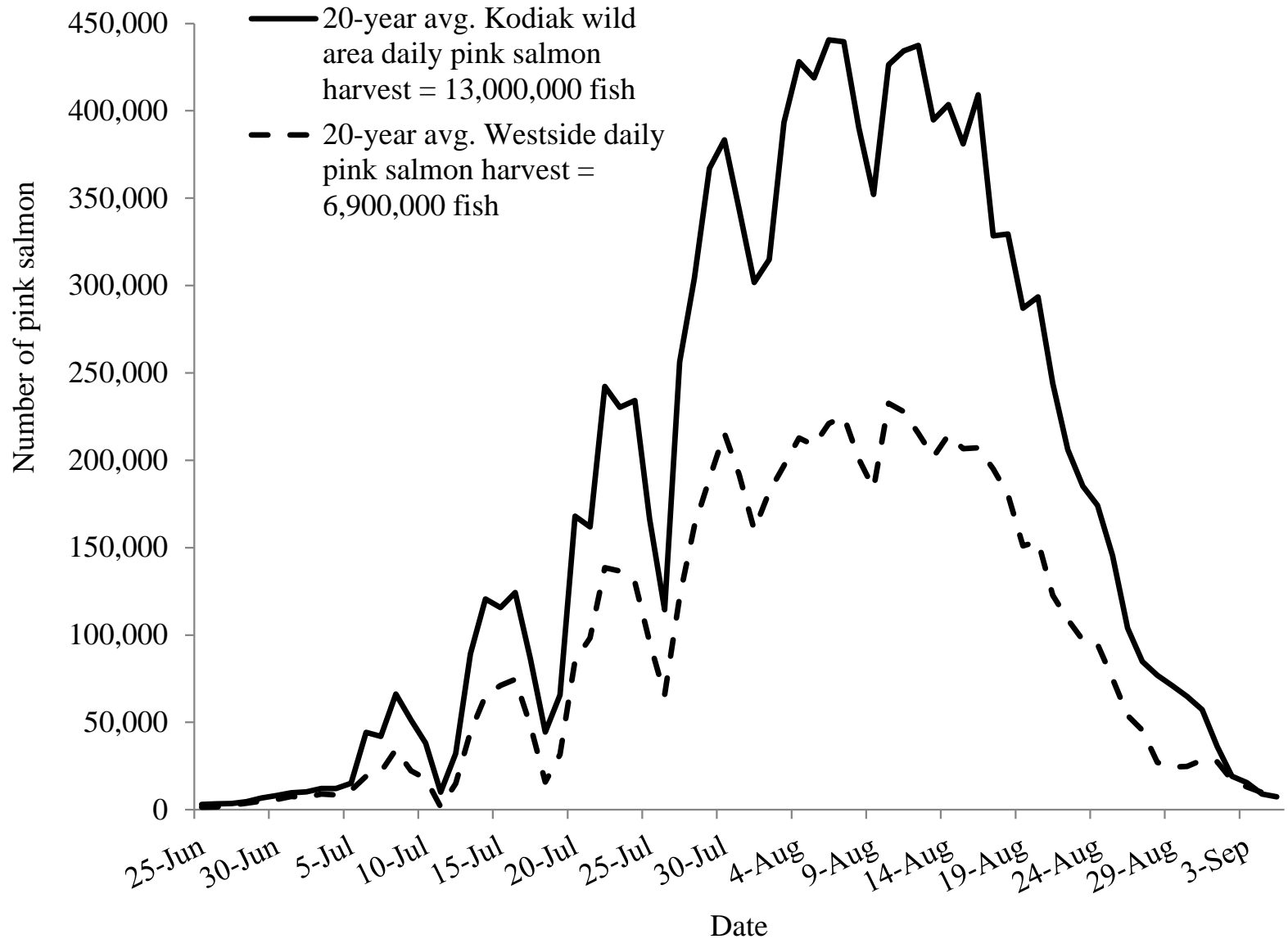


Kodiak Pink Salmon Harvest Strategy

- Area-wide July 6th fixed opening date
- Coordinate as many fisheries as possible to allow for dispersion of the seine fleet
- Area wide weekly fishing periods based on wild pink salmon forecast:

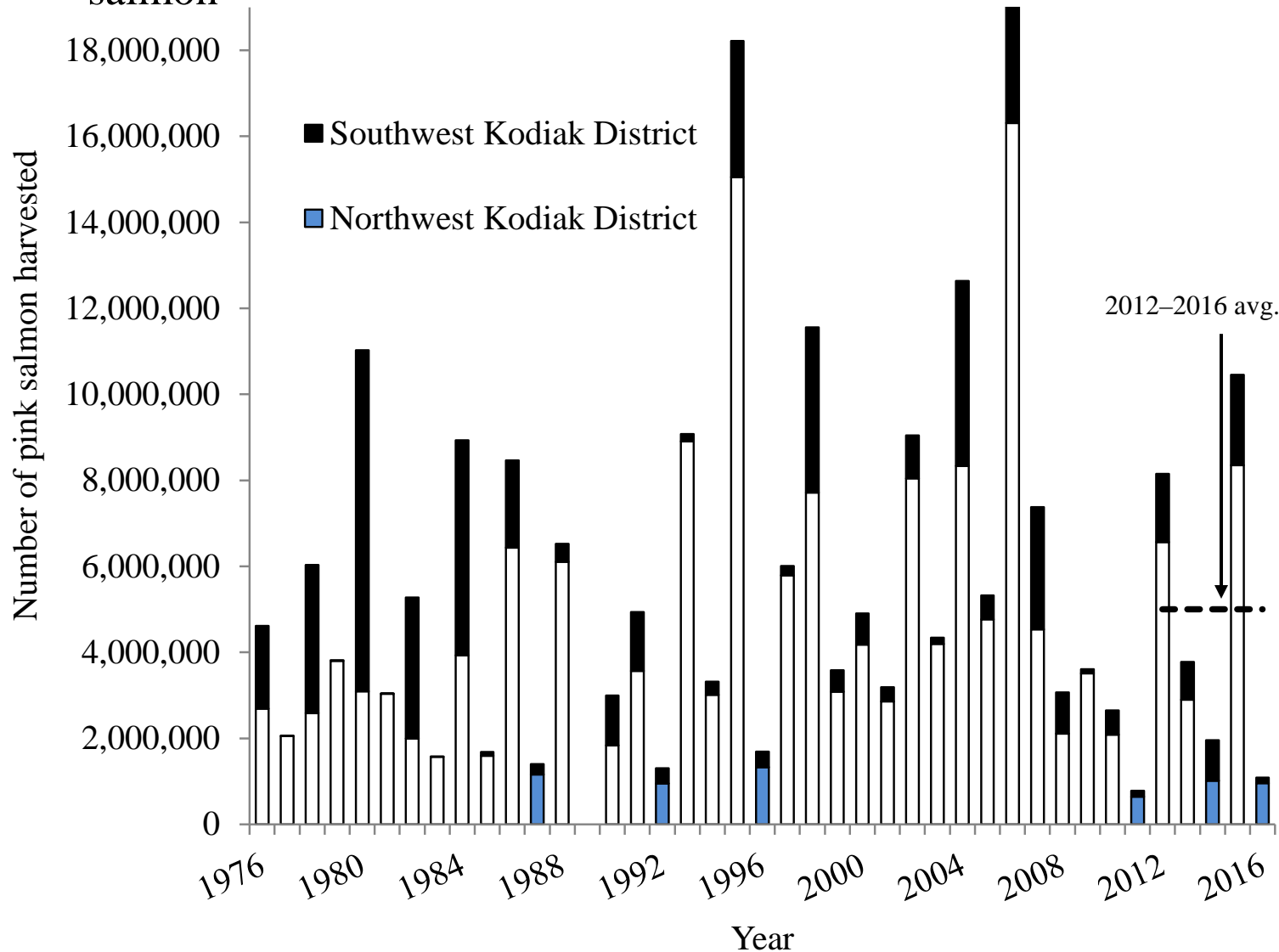
weak	2 ½ days
moderate	3 ½ days
strong	4 ½ days
- Start flying escapement surveys at the end of 2nd weekly opening to evaluate pink salmon buildup in KMA's inner bays
- During the peak of the wild pink salmon run (late-July to mid August) fishing time is adjusted based on local pink salmon run strength

Kodiak Wild Area Pink Salmon Daily Harvest & Westside Component

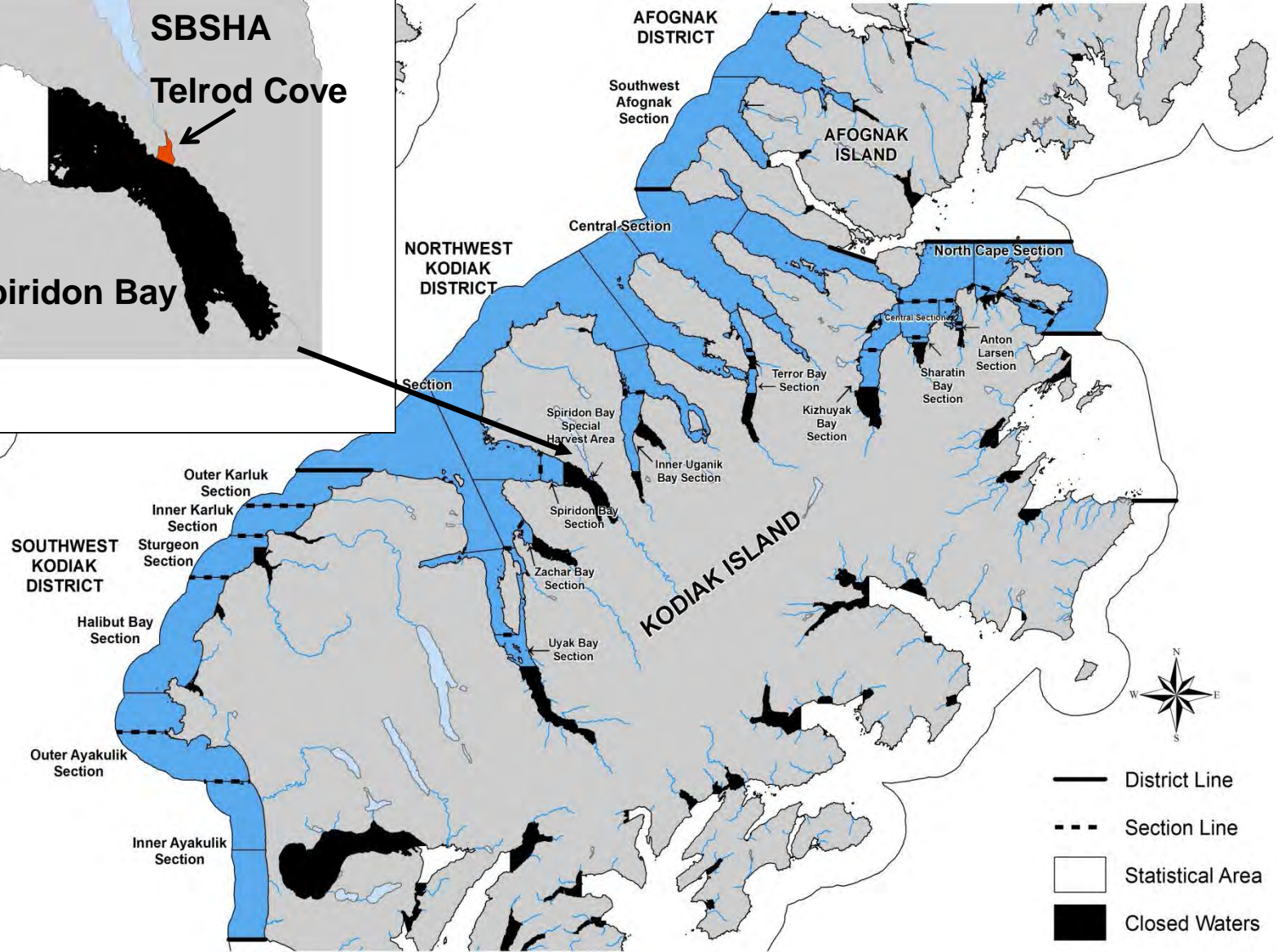
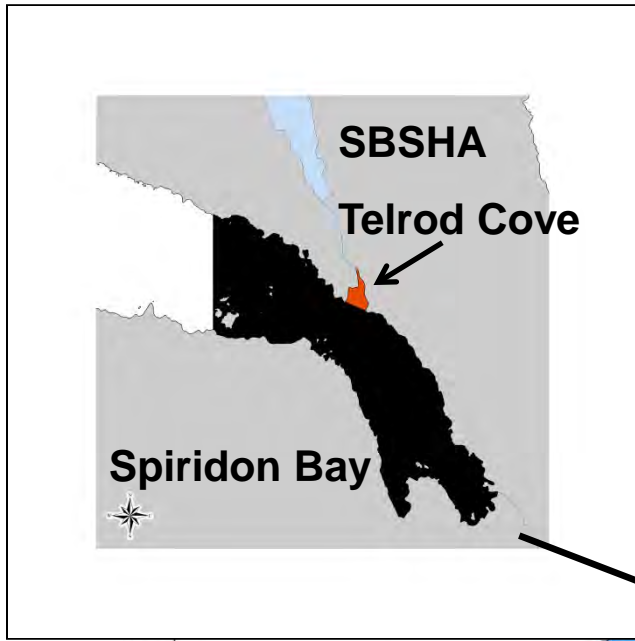


Westside Commercial Pink Salmon Harvest

- Variable harvest the past 5 years. 5 – year avg. = 5,000,000 pink salmon

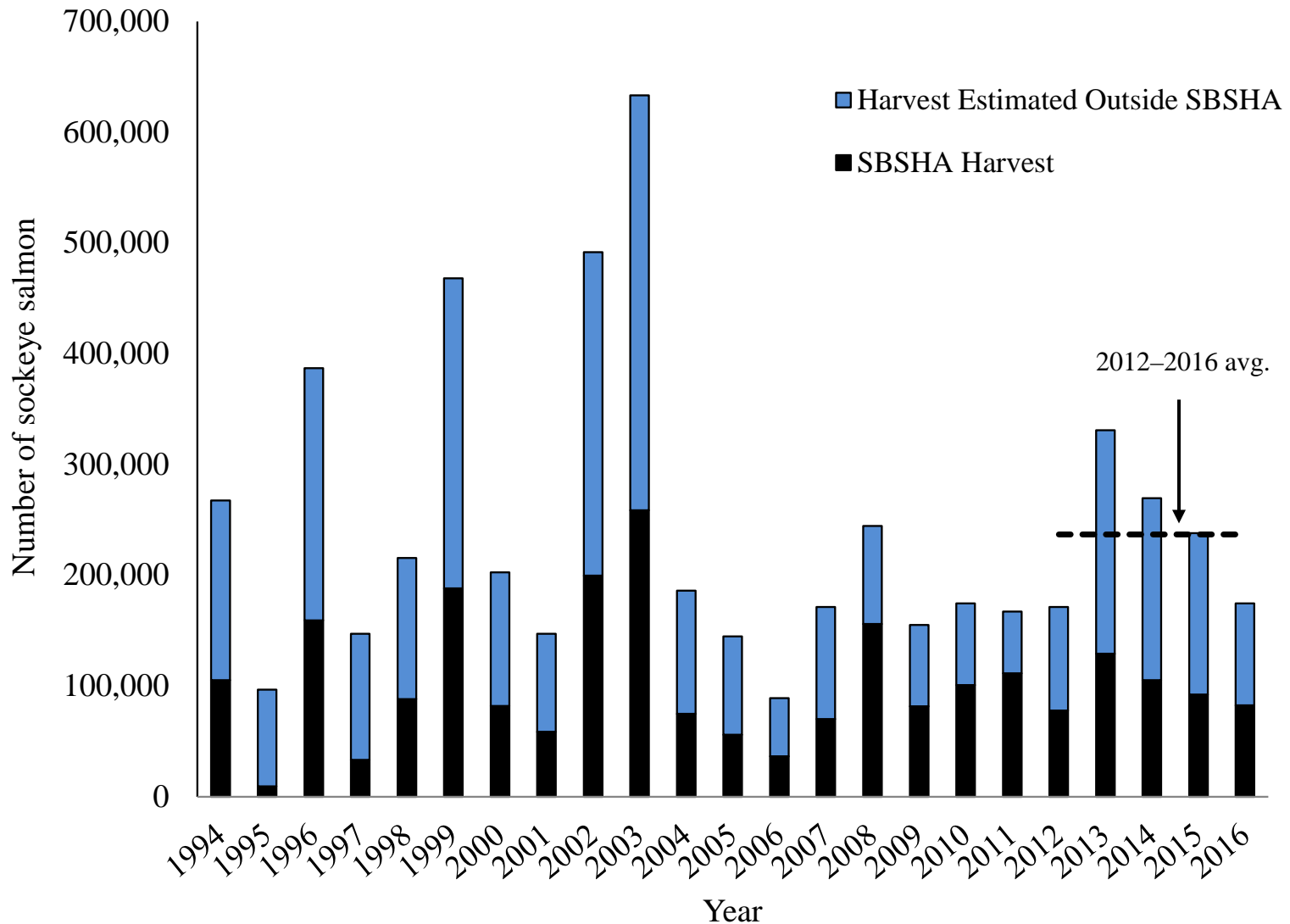


Spiridon Bay SHA

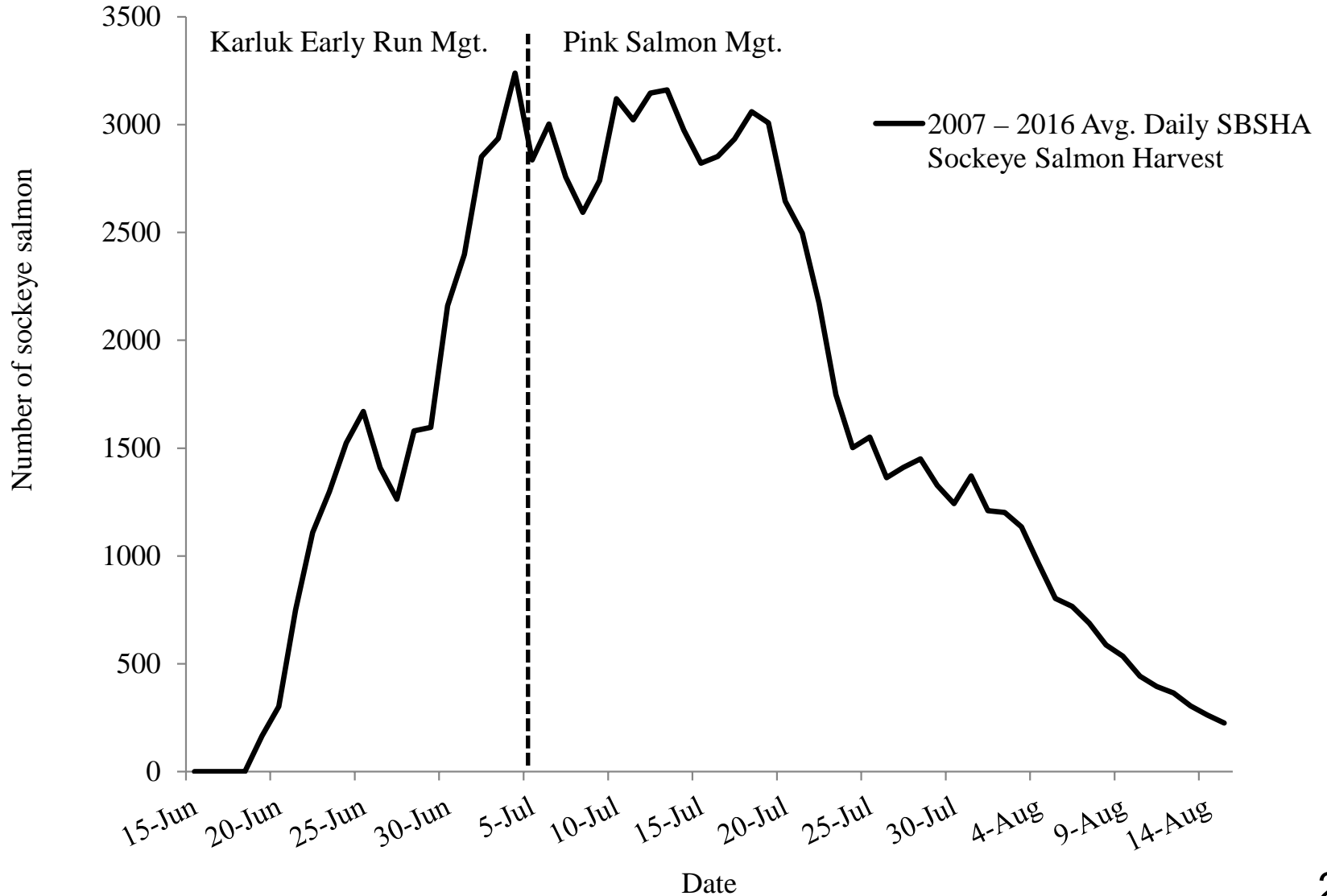


Spiridon Lake Sockeye Salmon Harvest

- 5 – year avg. harvest approximately 240,000 sockeye salmon

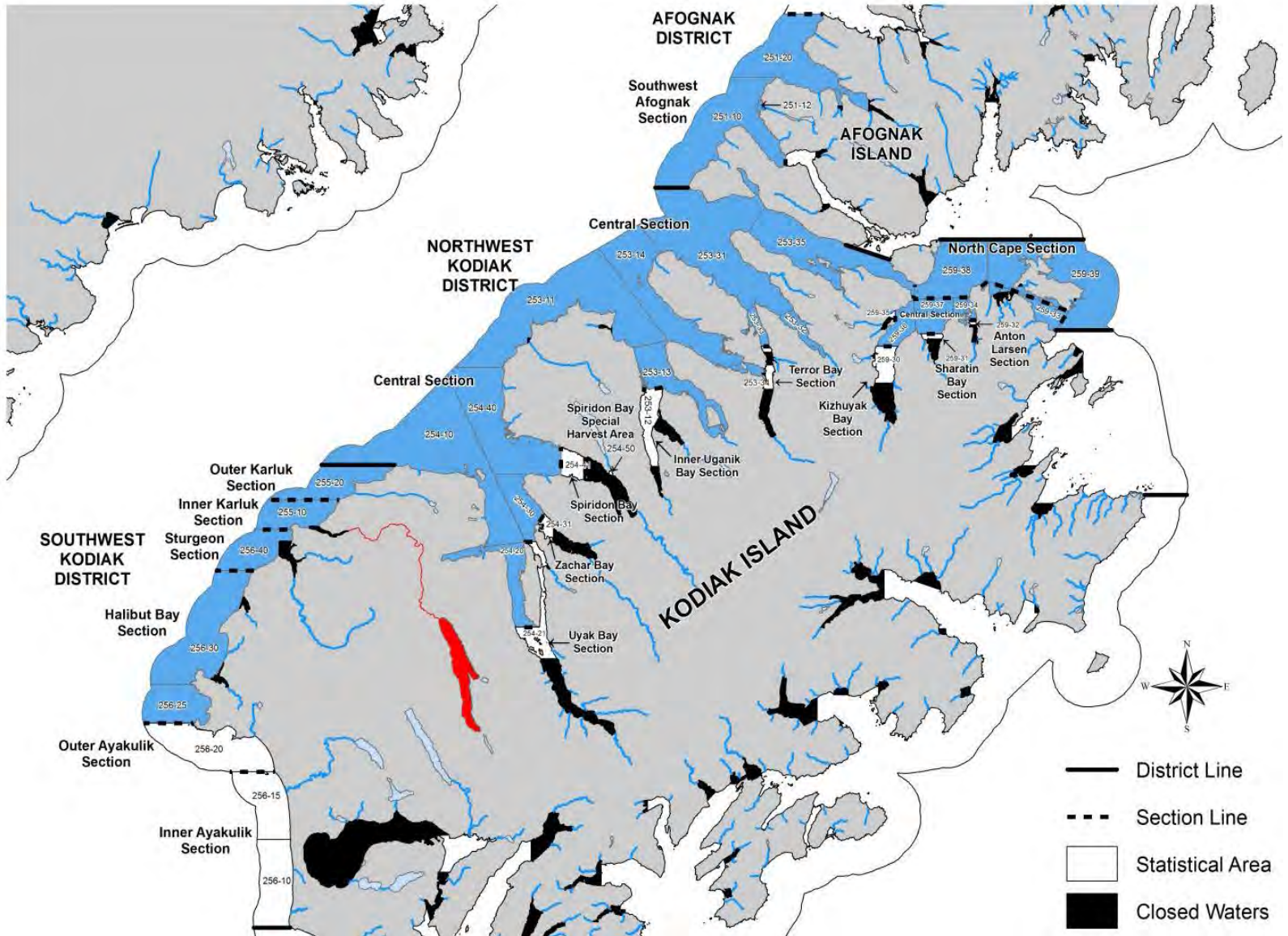


10- Year Avg. SBSHA (Telrod Cove) Daily Sockeye Salmon Harvest



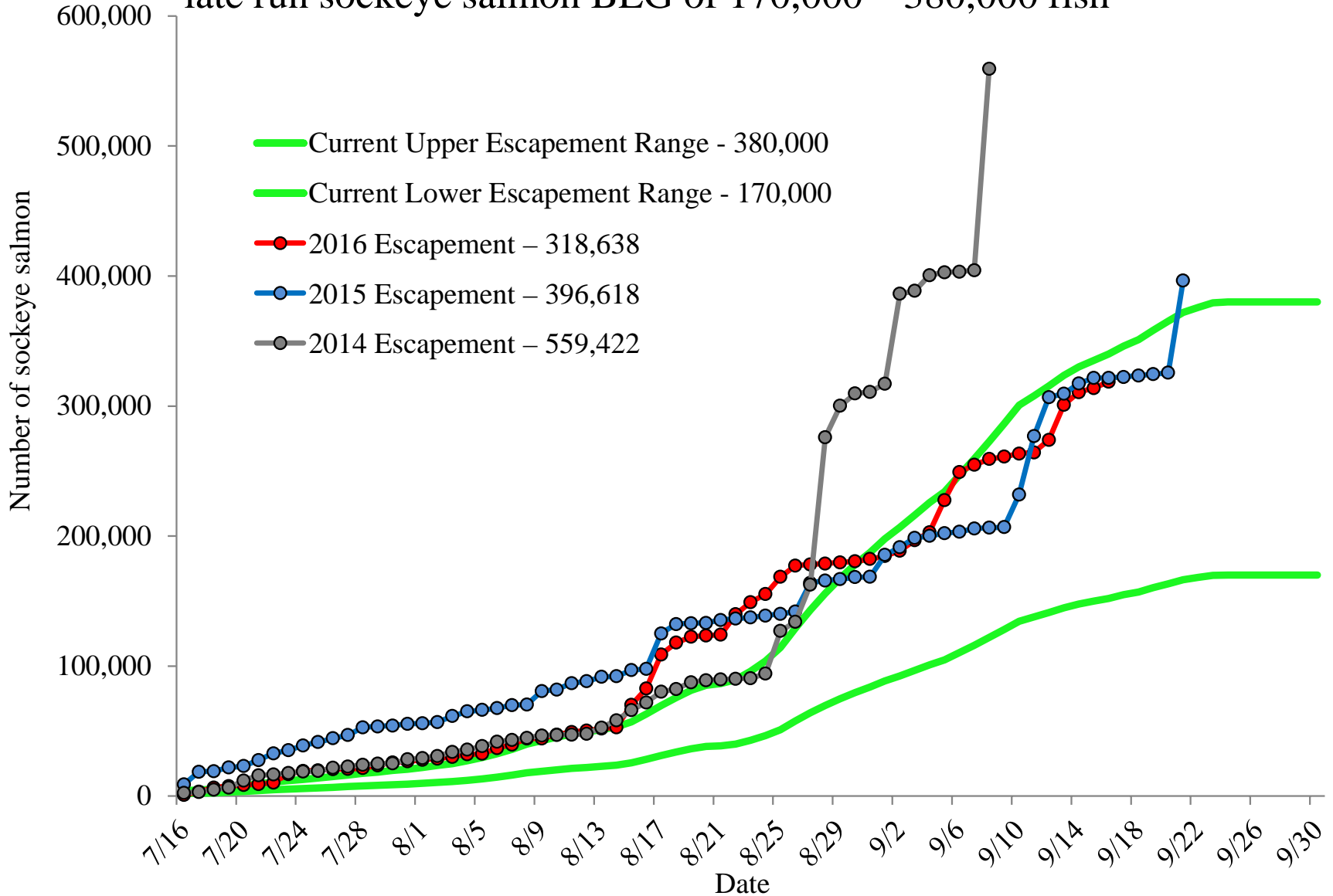
Karluk Late Run

- In late August, the commercial fishery management is again centered around the Northwest Kodiak District & Karluk sections



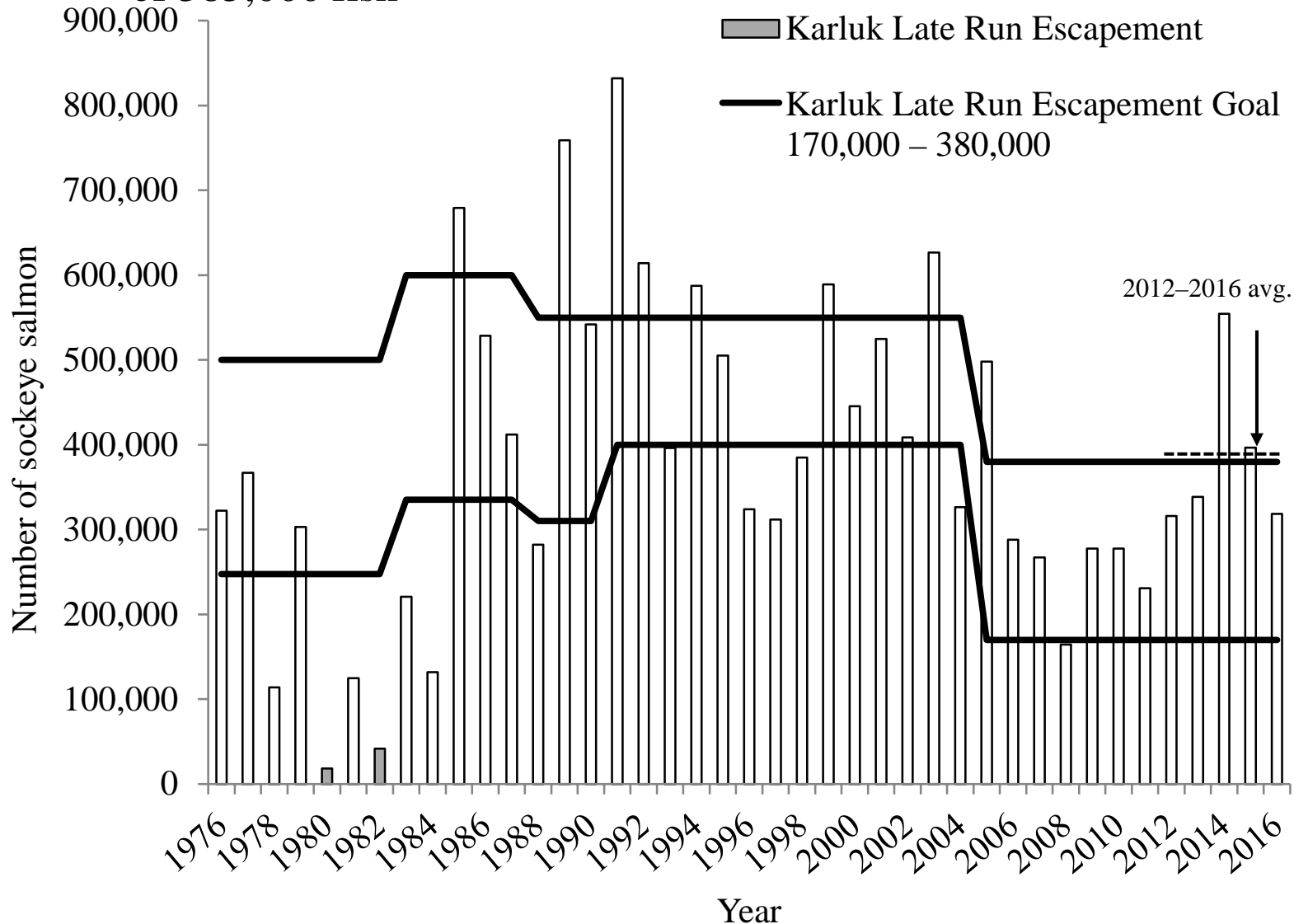
Karluk Late Run

- August 16 – end of the season fishery managed based on Karluk late run sockeye salmon BEG of 170,000 – 380,000 fish



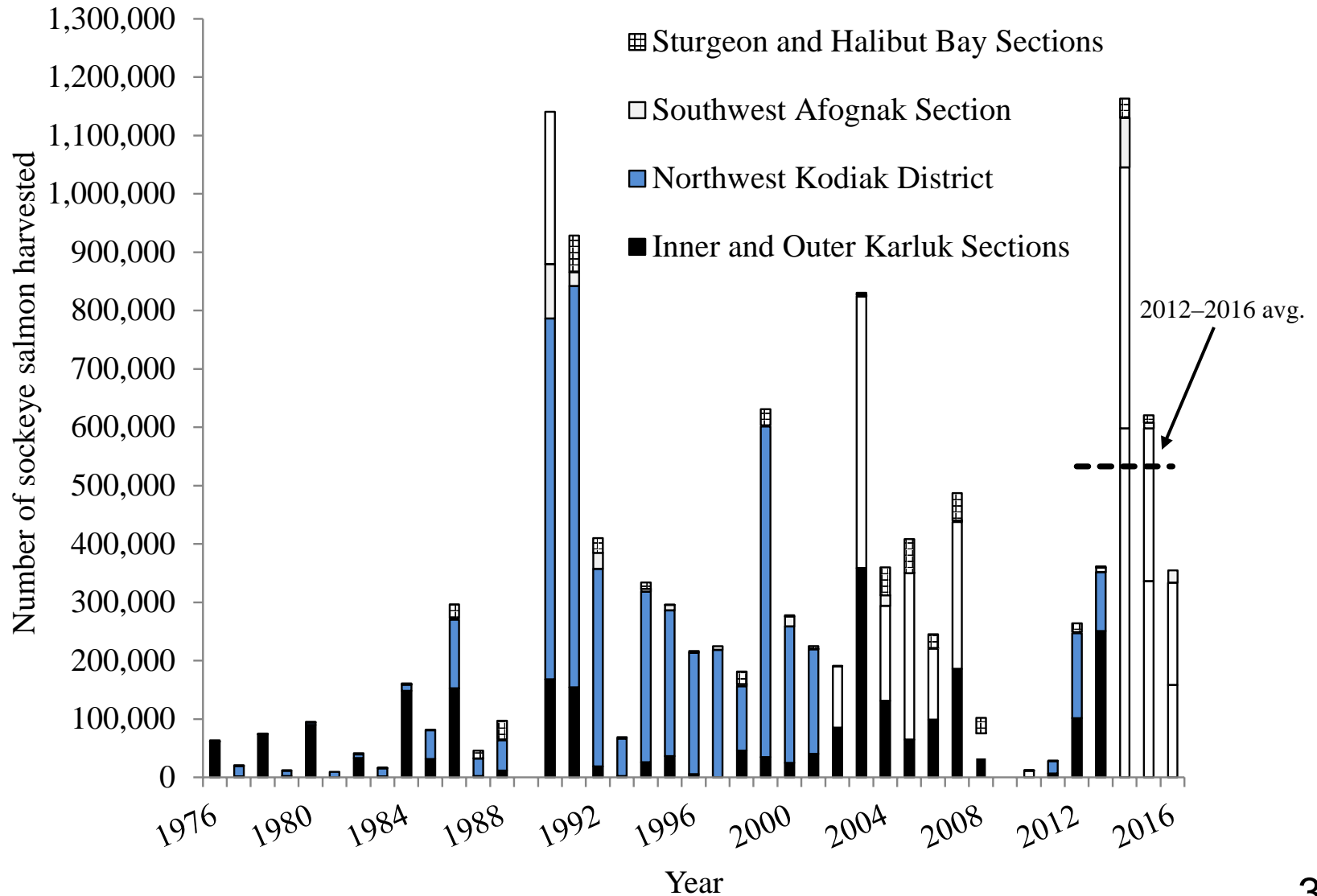
Karluk Late Run

- Achieved goal for the past 8 years
- Exceeded the goal 2 of the past 3 years; 5 year avg. escapement of 385,000 fish



Karluk Late Run

- Variable harvest the past 5 years; 5-year avg. harvest of approximately 533,000 sockeye salmon



Westside Kodiak Proposals

- **Proposal 59:** mandatory minimum closures for the Westside of Kodiak and the Alitak District
- **Proposal 60:** create a SHA within the Inner Karluk Section of the Southwest Kodiak District
- **Proposal 61:** put into regulation, language allowing the department to restrict fishing in SBSHA to meet KRAA cost recovery needs
- **Proposal 62 & 63:** amend the closed waters description for the Ayakulik River in the Inner Ayakulik Section

Questions?