

# Review of Upper Cook Inlet King Salmon Stocks of Concern

Alaska Department of Fish and Game



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RC 3 - Tab 4A

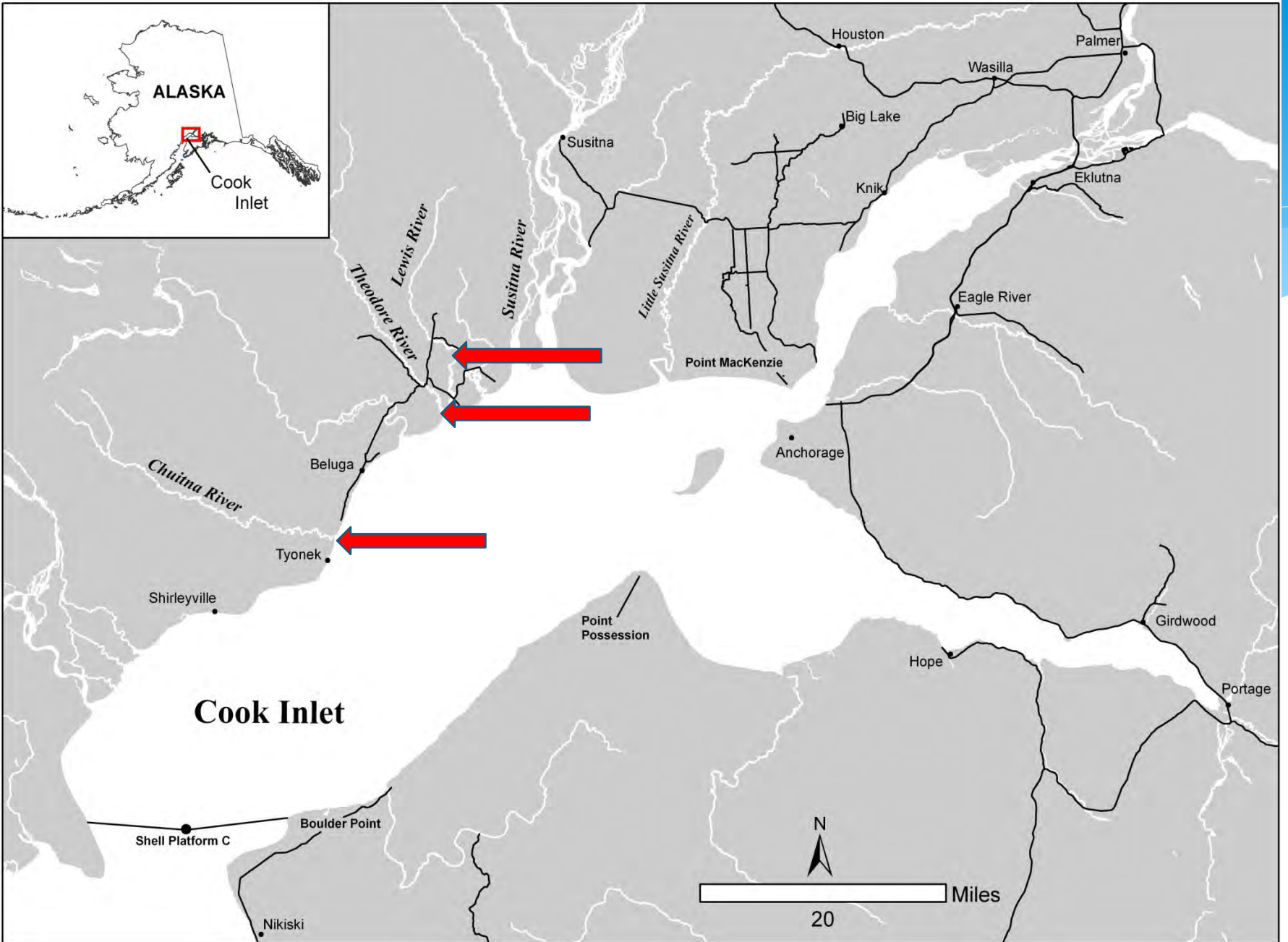
# Northern Cook Inlet

**2011**

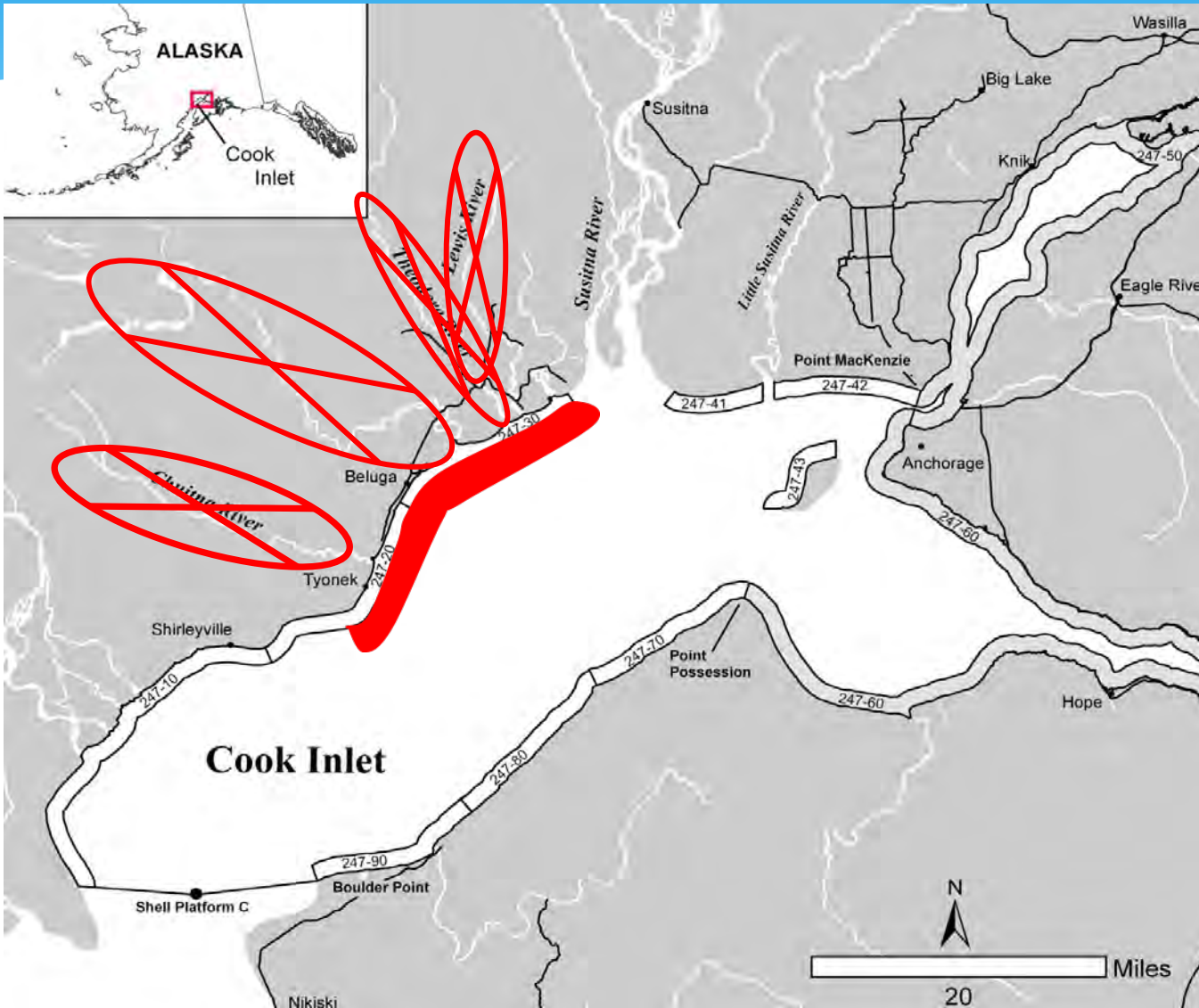
**\* 7 King Salmon SOC**

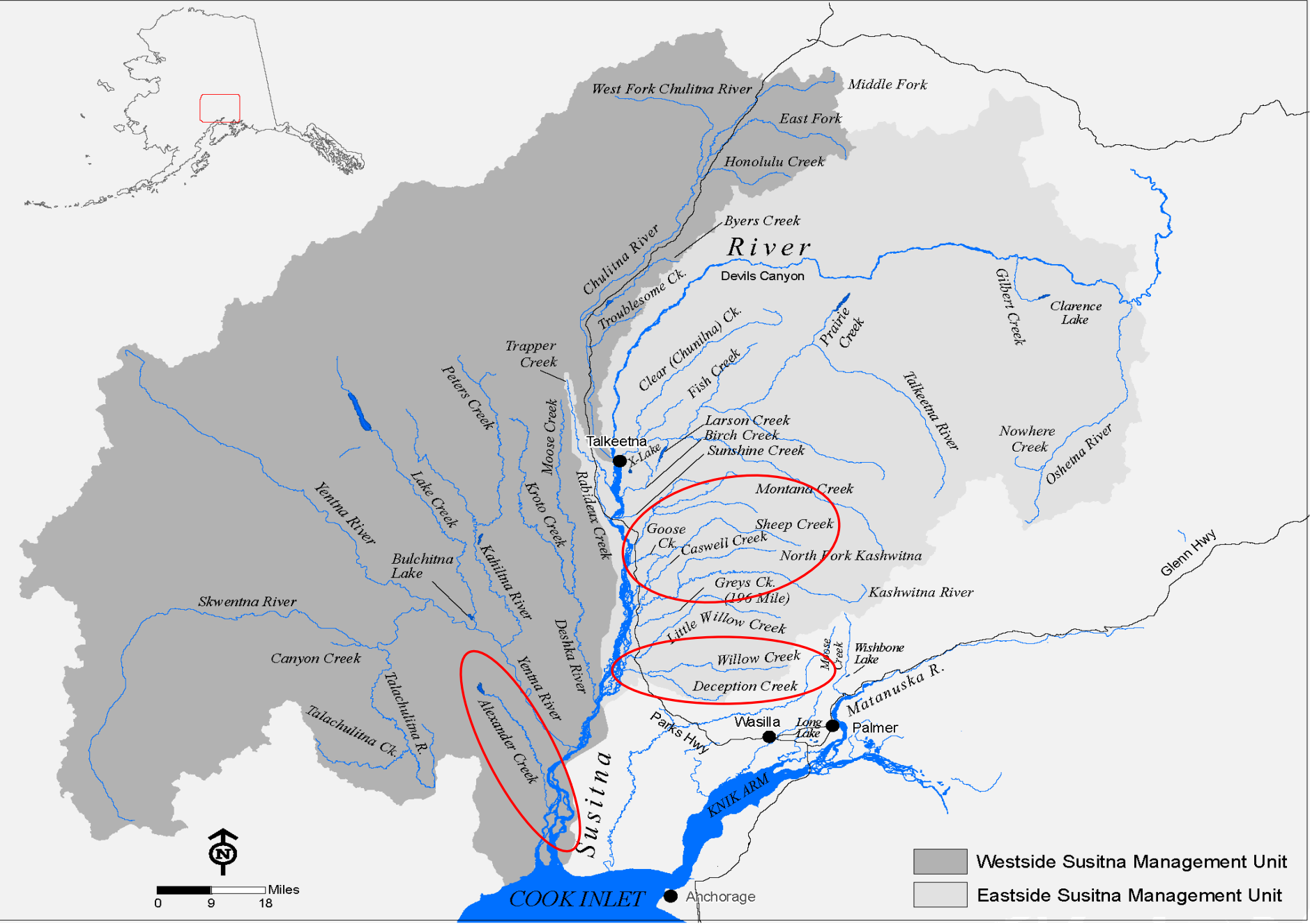
- Theodore, Lewis, Chuitna
- Alexander, Willow, Goose, Sheep

**\* Action Plans**



# Waters Closed to Fishing







# Management Actions

## \* 2011 – Regulatory Changes

- Reduced area open to commercial fishing
- Closed rivers to sport fishing
- Reduced sport fishing season and daily hours on Parks Highway streams

# King Salmon Harvest

Eastside Susitna River drainage king salmon harvest by fishery, 2003-2022.

Year	Willow Creek	Sheep Creek	Goose Lt. Creek	Willow Creek	Kashwitna River	Caswell Creek	Montana Creek	Birch Creek	Sunshine Creek	Eastside Stock	Other <sup>a</sup> freshwater	ND Setnet	Tyonek Subst.
2003	3,922	1,284	350	510	373	26	1,242	167	154	8,028	195	454	415
2004	2,818	914	335	445	125	23	1,071	0	25	5,756	315	520	525
2005	2,466	878	150	621	112	394	1,328	287	205	6,441	52	911	355
2006	2,141	707	27	449	210	264	1,672	97	211	5,778	0	1150	410
2007	2,258	964	31	870	223	190	1,294	0	0	5,830	31	1031	458
2008	1,101	589	134	505	237	30	1,188	46	431	4,261	94	1075	448
2009	499	393	0	85	212	17	257	0	0	1,463	210	440	245
2010	218	153	0	169	214	0	371	26	56	1,207	368	473	335
2011	282	213	0	33	172	0	362	0	16	1,078	545	621	255
2012	13	0	0	0	8	0	13	0	0	34	56	283	331
2013	0	0	0	0	0	0	0	0	0	0	18	358	406
2014	0	0	0	0	0	0	0	0	0	0	31	495	351
2015	0	0	0	0	0	0	0	0	0	0	258	250	120
2016	0	0	0	0	0	0	0	0	0	0	401	581	327
2017	0	0	0	0	0	0	0	0	0	0	0	609	499
2018	0	0	0	0	0	0	0	0	0	0	0	39 <sup>b</sup>	424
2019	0	0	0	0	0	0	0	0	0	0	0	55 <sup>b</sup>	340
2020	0	0	0	0	0	0	0	0	0	0	0	448	402
2021	0	0	0	0	0	0	0	0	0	0	0	511	307
2022	0	0	0	0	0	0	0	0	0	0	0	359	<sup>c</sup>
2023 <sup>c</sup>												71 <sup>b</sup>	<sup>c</sup>
Avg													
2003-2011	1,745	677	114	410	209	105	976	69	122	4,427	201	742	383
2012-2022	1	0	0	0	1	0	1	0	0	3	69	433	351

<sup>a</sup> Includes lakes and streams and may include Talkeetna River and tributaries including Clear Creek.

<sup>b</sup> Directed Northern District king salmon fishery did not occur this year

<sup>c</sup> Estimates not available



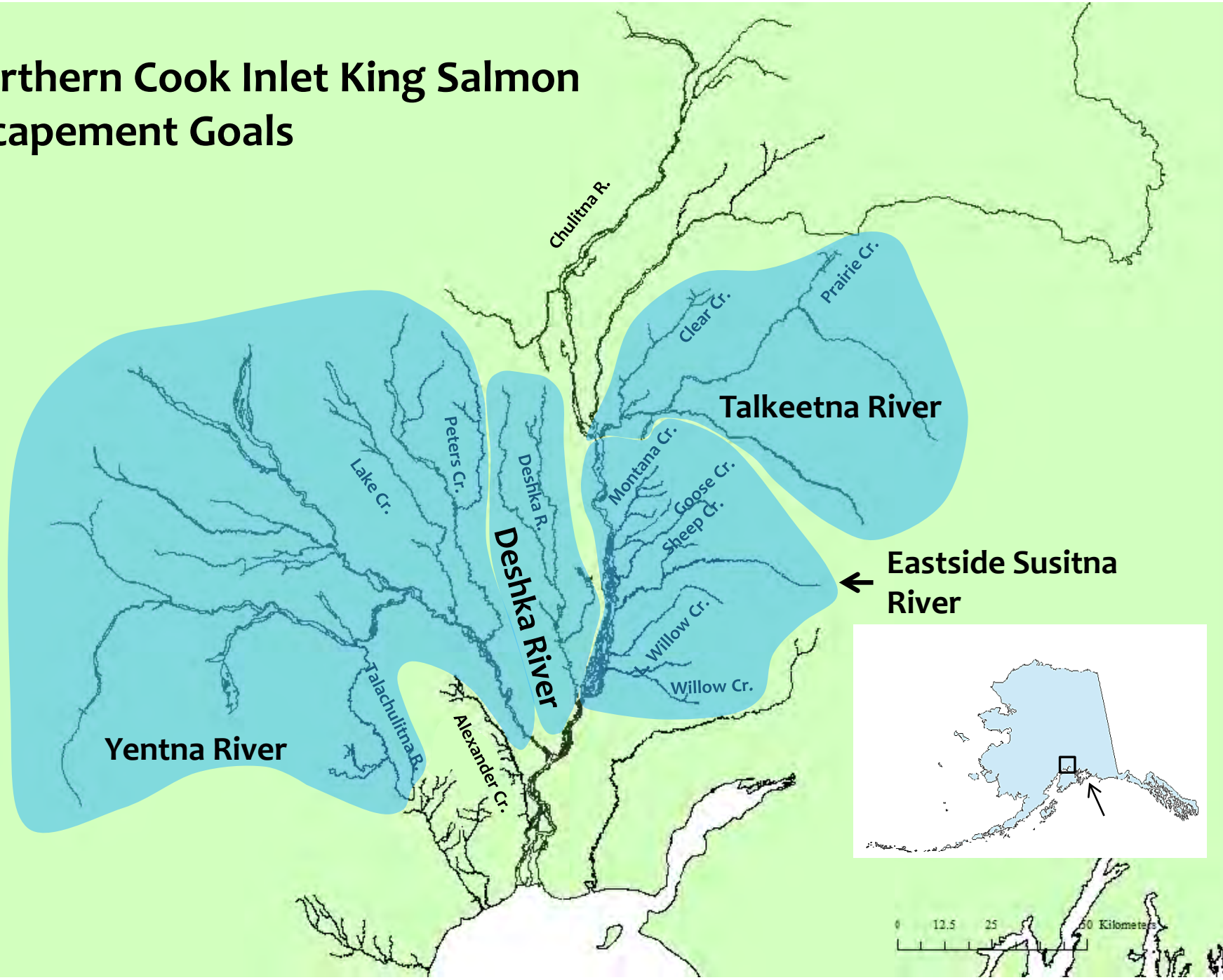
# Escapements of Stocks of Concern

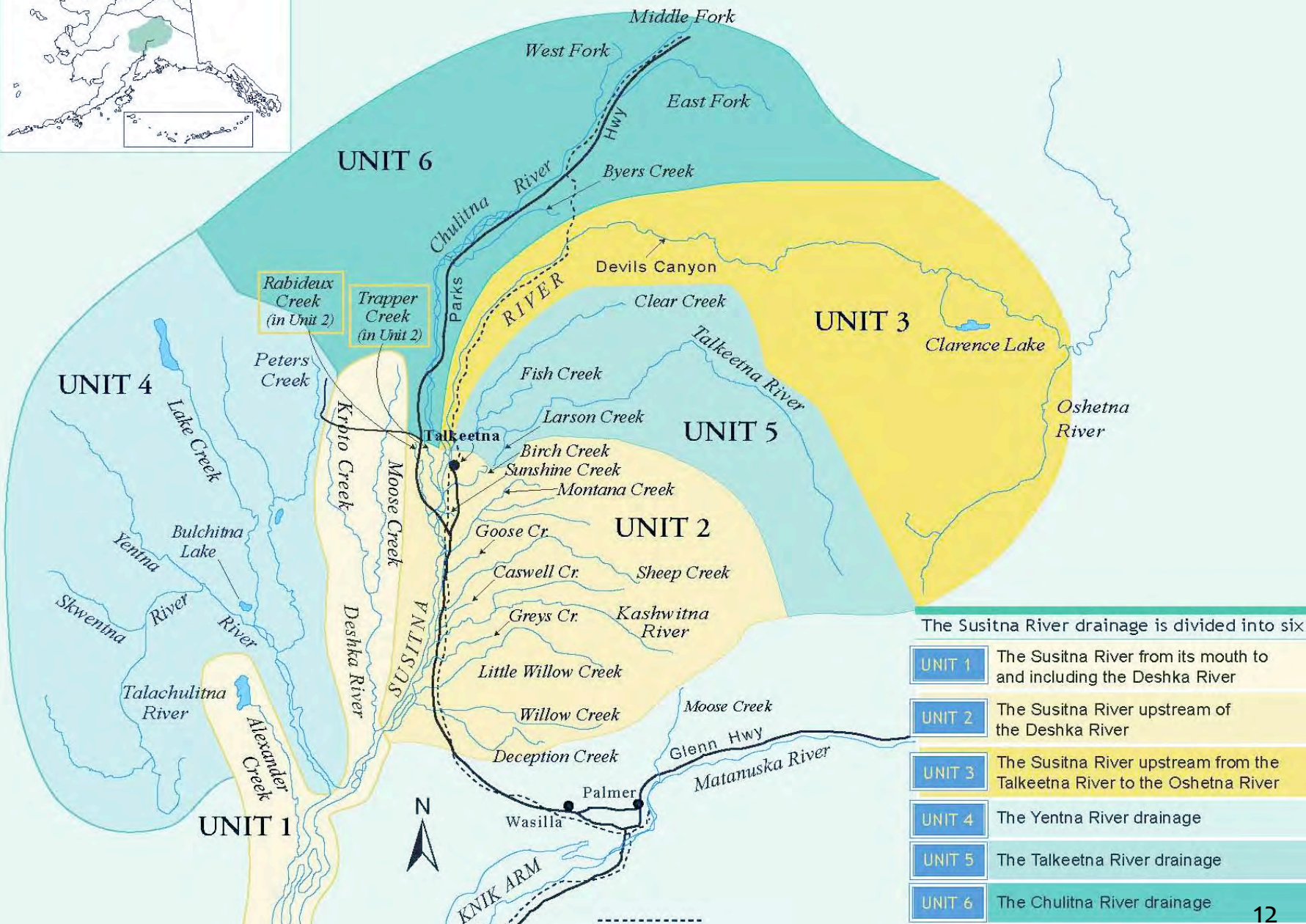
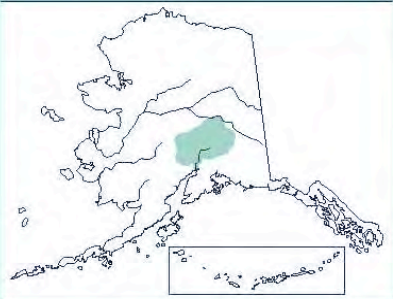
Drainage	Esc. Goal	Established	2015	2016	2017	2018	2019	2020	2021	2022	2023
Theodore River	500 – 1,000	SEG/2020	426	68	21	18	201	111	38	NC	NC
Lewis River	250 – 800	elim/2020	5	0	0	0	0	discon't			
Chuitna River	1,200 – 2,900	SEG/2020	1,965	1,372	235	939	2,115	869	806	NC	372
Alexander Creek	1,900 – 3,700	SEG/2020	1,117	754	170	296	1,297	596	288	NC	NC
Willow Creek	1,600 – 2,800		2,046	1,814	1,329	411	897	ES Stock			
Goose Creek	250 – 650		NC	NC	148	90	NC	ES Stock			
Sheep Creek	600 – 1,200		NC	NC	NC	334	NC	ES Stock			
Eastside Stock	13,000 – 25,000	SEG/2020						14,999	15,208	7,654	4,003

# Research Implemented Since 2011

- \* **Improved King Salmon Genetic Baseline**
- \* **Run reconstruction for Susitna drainage**
  - Mark recapture data combined with historical harvest and survey data
  - Enables annual stock escapement estimates
- \* **Yentna River research**
  - ASL data collection
  - Lake Creek sonar project

# Northern Cook Inlet King Salmon Escapement Goals

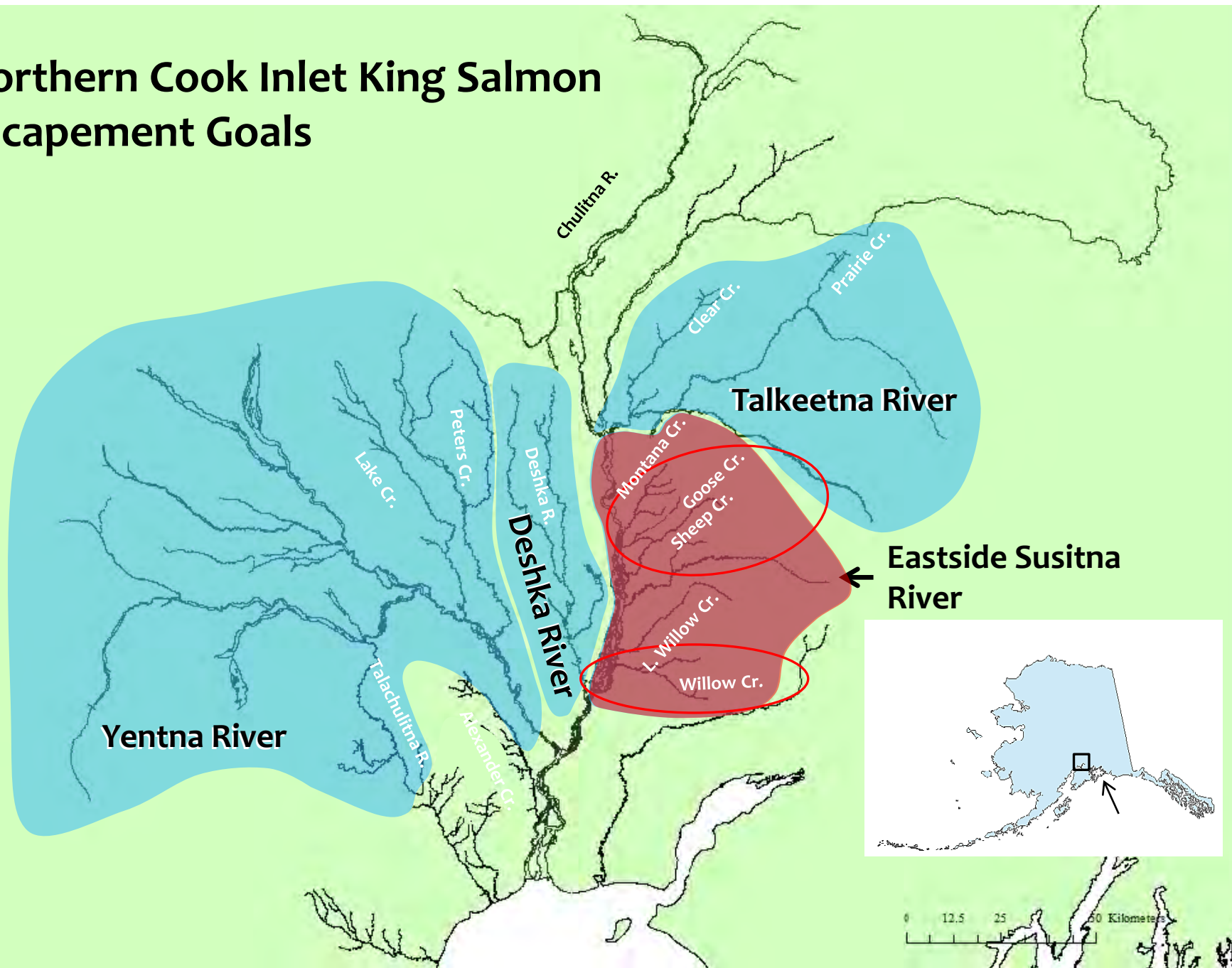




The Susitna River drainage is divided into six

- UNIT 1** The Susitna River from its mouth to and including the Deshka River
- UNIT 2** The Susitna River upstream of the Deshka River
- UNIT 3** The Susitna River upstream from the Talkeetna River to the Oshetna River
- UNIT 4** The Yentna River drainage
- UNIT 5** The Talkeetna River drainage
- UNIT 6** The Chulitna River drainage

# Northern Cook Inlet King Salmon Escapement Goals



# 2020 Actions

## \* **Chuitna and Theodore Rivers King Salmon Stock Status and Action Plan, 2020**

- Drop Lewis River as SOC
- No change in SOC status

## \* **Alexander Creek King Salmon Stock Status and Action Plan, 2020**

- No change in SOC status

## \* **Eastside Susitna King Salmon Stock Status and Action Plan, 2020**

- Replace Willow, Sheep and Goose Creeks SOC with Eastside Stream Stock Group SOC

# Northern Cook Inlet 2024

- \* **4 King Salmon SOC**
  - Theodore, Chuitna
  - Alexander, Eastside Streams Stock
- \* **Action Plans**
- \* **Regulatory and Inseason**
- \* **Research**
- \* **Reductions in Harvest**
- \* **Department Recommendations**
  - No further action

# Kenai Late-Run King Salmon





# Questions?

