Agenda # 4

By: M. Neison

Date: 5/19/79

TOGIAK HERRING FISHERY RE-CAP FOR NO. PACIFIC COUNCIL SSC MEETING

(1) Harvest

- (a) Accum. sac roe harvest thru 5/18 is 8.402 tons, with peak catch made on May 11-13.
- (b) Accum. kelp harvest thru 5/16 is 364,000 lbs, with peak harvest made on 5/10.
- (c) Daily and accumulative harvest (to nearest tons/lbs.):

	Herri	Herring (tons) Kelp					
	Daily	Accum.	Daily	Accum.			
5/1	6	6					
2	132	138					
3	126	264					
4	526	787	2,600	2,600			
· 5	· 492	1,278	11,500	14,100			
6	708	1,986	0	14,100			
6 7	427	2,413	20,000	34,200			
8 9	526	2,939	45,900	80,100			
9	419	3,358	48,600	128,700			
10	620	4,000	131,800	260,500			
11	1,123	5,098	30,700	291,100			
12	361	5,459	3,800	294,900			
13	999	6,458	33,600	328,500			
14	446	6,904	36,700	365,300			
15	215	7,119	1,800	367,000			
16	186	7,305	0	367,000			
17	420	7,736	8,600	375,600			
18	6 66	8,402	300	375,900			
19	353	8,755	0	375,900			
20	38	8,793	-	. •			

- (d) Company catch reporting of the daily catch going well with only 2 of 32 companies giving us trouble.
- (e) Roe recovery variable, running 7-14%, with average of perhaps $9\frac{1}{2}$ %. Up thru 5/10 roe recovery going 10+%, and since 5/10, 8-9%.
- (f) Area of catch most fish coming from between Kulukak Bay & Togiak Bay, a few tons from further west.

- (g) Catch by gear type no tally yet, but it appears that gill net gear has harvested about 37% of the total harvest to date.
- (2) Effort catch thru 5/18, up considerably from 10% in 78.
 - (a) thru 5/17, 32 companies have registered on grounds for herring sac roe, and 16 companies for kelp. Pre-season indications were for approximately 37 sac roe processor, and up to one dozen kelping companies.
 - (b) Fishing effort levels were derived from 3 sources:
 - (1) Pre-season telephone survey, which indicated approximately 173 seiners and over 300 gill net boats would be involved.
 - (2) Pre-Season fishing vessel registration required by Ak Statute shows the following "paper" registration thru 5/19/79:

 $\frac{187}{416}$ purse seiners $\frac{68}{671}$ both (P/S & G/N)

(3) Aerial survey vessel count on 5/16/79:

166 Seine boats 250-300+ gill net boats

- (c) No count made of company tenders/processors/trampers/support vessels, but 250 vessels of this type wouldn't be far off.
- (3) Summary Survey Results:
 - (a) Summary of herring aerial observations in the Togiak herring fishing district:

•									
	Cons.	Survey	Census		Number			Herr	
	Flight	Index	Areas*		Schools	Obser	ved	Spa	awn
Date	No.	Rating	Surveyed	Sm.	Med.	Lg.	Total	No.	Miles
4/30	1	Poor	T2-T6	0	4	33	37	2	2.5
5/2	2	Fair/Poor	T1-6	47	103	13	157	21	8.3
5/3	3	Fair/Poor	T1-6	1	26	7	34	14	5.0
5/4	4	Very Good	T1-6	36	152	58	246	8	3.7
5/5	5	Good	T1-6	96	157	65	318	1	1.3
5/7	6	Fair/Poor	T1-11	13	223	34	270	3	0.6
5/9	7	Poor	T1-6	1	10	2	13	2	0.4
5/10	8	Very Good	T0-6	37	72	69	178	0	0
5/12	9	Poor	T0-9	29	18	1	48	0	0
5/14	10	Good/Exc.	T1-13	80	138	36	254	0	0
5/16	11	Poor	T1-7	1	3	17	21	0	0 .
5/17	12	Fair/Good	TT-13	24	5	12	41	9	0.7
5/17	12	Fair/Good	Sec Cove	27	ĩ	ī	29	3	1.1
5/17	12	Fair/Good	Goodnews	4	Ò	2	6	0	0

- * T1-6 (Nush. Peninsula to Togiak Bay). T7-10 (Togiak Bay to Hagemeister Strait). T11-13 (Hag. Strait to Cape Newenham)
 - (b) Estimate 1979 herring biomass as strong or stronger than 1978. In 1978 I estimated the biomass at 100-200,000 tons, while this season I'd estimate the total at 150-250,000, with 150,000 tons being my personal pt. estimate
 - (c) From survey results it is pretty clear to me that this years herring run timing was about 10-14 days in advance of 1978. The peak of spawning took place from 4/30-5/4, whereas in 1978, peak spawning was from 5/11 to 5/18. It's very likely that significant spawning was taking place prior to 4/30, the first aerial survey observation.
- (4) Age composition: analysis from samples taken from 5/1 thru 5/12 show heavy dominance of 5 & 6 year old fish (80 to 90% overall), while the 4 year old age class has not shown to any significant extent in 79; totaling only about 10-12% of the harvest. (Last year mostly 4 x 5)

(5) <u>Miscellaneous</u>:

- (a) the early show of fish and lack of processing and fishing effort early in May was a significant factor in holding down catches early in May when roe recovery was running better than 10-11%. Even though the season did not open until May 1, only 2 companies were on hand to begin this season, and by May 5, the peak of spawning activity, only 12 companies of 38 potential operators were on hand, and several of their companies, although registered, were not yet ready to receive fish.
- (b) Although pre-season surveys indicated better than 40 aircraft in support of the herring fleet, and increased air traffic, no serious problems or injuries have resulted to date.

(c) ADF&G has affected 3 emergency orders closing several beach areas to kelping:

E0#1 closed 3 small beaches in Metervik Bay in May 2 prior to commencement of the kelping effort. These 3 beach areas were established as ADF&G study control areas.

E0#2 Closed Metervik Bay to kelping on May 11 until further notice when the kelp harvest approached 42% of the entire Bay biomass.

EO Closure #3 was affected on May 18 when the kelp harvest on the westside of Kulukak Bay was estimated to have amounted to 45% of the available biomass.

(d) Prices: <u>Herring</u>: Concensus seems to indicate about a \$500-600 price per ton average. Harvest thru 5/18 is 8,402 ton x \$550 average per ton = \$4.6 million ex-vessel value thru 5/18.

Keip: 65¢ 1b. average x 364,000 1bs = \$240,000 ex-vessel value thru 5/16.

Agenda #4 May 1979 GROUNDFISH BERING SEA/ALEUTIAN ISLANDS 1979 CUMULATIVE DOMESTIC LANDINGS

Reporting Period: Feb. 1979 - Dec. 1979 Landings Thru April 30, 1979

	Landing	
Species	<u>Pounds</u>	Metric Tons
Pacific Cod	1,104,450	501.1
Yellowfin Sole	0	
Other Flounders	0	
Pollock .	0	
Pacific Ocean Perch	0	
Sablefish	0	
Other	0	
Unspecified	54,890	24.9

Alaska Department of Fish and Game Division of Commercial Fisheries Juneau, Alaska 99801 21 May 1979

GROUNDFISH GULF OF ALASKA 1979 CUMULATIVE DOMESTIC LANDINGS

Reporting Period: Dec. 1978 - Nov. 1979

Landings Thru April 30, 1979

Landings

Species	DAH	Pounds	Metric Tons
Pollock	(14,200 mt)	3,453,448	1,566.9
Flounder	(7,200 mt)	1,082,604	491.2
Cod	(15,500 mt)	1,693,554	768.4
Pacific Ocean Perch Rockfish	(3,100 mt)	180,067	81.7
Sablefish	(4,000 mt)	447,632	203.1
Atka Mackerel	0	0	0
Squid	0	0	0
0ther	(500 mt)	94,992	43.1
Unspecified		423,829	192.3

Alaska Department of Fish and Game Division of Commercial Fisheries Juneau, Alaska 99801 21 May 79

ALASKA TANNER CRAB 1979 CUMULATIVE DOMESTIC LANDINGS PREL IMINARY

Reporting Period: Dec. 1978 - Nov. 1979

		Landings	
Management Area	DAH	<u>Pounds</u>	Metric Tons
Southeast - Yakutat	(2,495 mt)	2,750,100 ¹ /	1,248
Prince William Sound	(3,175 mt)	5,962,000 <u>1</u> /	2,705
Cook Inlet	(2,404 mt)	5,105,000 <u>1</u> /	2,316
Kodiak	(15,876 mt)	29,129,800 ² /	13,216
South Peninsula	(13,608 mt)	10,645,500 <u>2</u> /	4,830
Aleutian	(907 mt)	1,426,300 <u>2</u> /	647
Bering Sea			
C. Bairdi	(40,381 mt)	38,134,800 <u>2</u> /	17,303
C. Opilio	(12,268 mt)	12,894,500 <u>2</u> /	5,850

Alaska Department of Fish and Game . Division of Commercial Fisheries Juneau, Alaska 99801 21 May 79

 $[\]frac{1}{2}$ Landings reported as of April 30. $\frac{1}{2}$ Landings reported as of May 13.

STATUS REPORT OF THE

1978/79 DOMESTIC TANNER CRAB FISHERY

IN THE BERING SEA

by

Marton F. Eaton
Westward Regional Shellfish Biologist
Alaska Dept. of Fish & Game
May 25, 1979

The season for Tanner crab in the Bering Sea District opened on November 1, 1978. A catch of 105,680 pounds was landed by 15 vessels during the months of November and December. The landings made in November and December were mainly made as incidental catches by vessels targeting on blue king crab.

The Tanner crab catches in January and February were 1,283,913 pounds compared to 9,844,972 pounds landed in January and February of 1978. The large difference in poundage between the two years can be attributed to a price dispute during January and February which lasted until the 15th of March.

On March 15th a price settlement of 52 cents per pound for C. bairdi was reached between fishermen and processors and 30 cents per pound for C. opilio.

Three days after the strike was settled 1.1 million pounds was landed and for the month of March 113 vessels landed 12,637,696 million pounds in 2 weeks which compares to the month of March in 1978 when 68 vessels landed 15,837,934 million pounds.

The weekly catches in March of 1979 were 6.2 and 5.2 million

pounds respectively, while for the same period in 1978 the catches were 3.9 and 5.0 million pounds.

In the month of April 135 vessels made 337 landings for a catche of 20,891,688 pounds which compares in April of 1978 to 102 vessels making 234 landings for a catch of 21,178,996 pounds. In April of 1979 with an increase of 33 vessels and 103 landings the monthly catch was 287,308 pounds less in 1979 than 1978.

Beginning in mid April vessels began landing <u>C. opilio</u> in conjunction with <u>C. bairdi</u>. Prior to April 15th CPUE figures were calculated from all vessels making deliveries, but on April 22 CPUE figures declined from 48 to 39 and it appeared <u>C. bairdi</u> catches wer indicating that a closure would be necessary. However, after examining all deliveries it was noted that over 50 percent of the fleet was delivering both Tanner crab species and that was the primary reason that CPUE took a drastic decrease. (Table 1) (Figure 1). When the CPUE was calculated for vessels delivering only <u>C. bairdi</u> the CPUE increased from 39 to 47 indicating an almost stable catch when comparing it to the prior week of April 15th with a CPUE of 48. At this point it was decided CPUE information would be calculated from only vessels delivering <u>C. bairdi</u> because of the difficulty in determing the target species.

The abundance of <u>C. opilio</u> and the decrease of <u>C. bairdi</u> on traditional <u>C. bairdi</u> grounds allowed vessels to catch both species in the same spot.

The <u>C. bairdi</u> catch in May has continued to decrease from the week of May 6 when 2.4 million pounds were landed to the

week of May 13 when 1.6 million pounds were delivered. (Figure 2). The trend of decreasing <u>C. bairdi</u> catches will not reverse itself as the number of vessels exclusively fishing for <u>C. bairdi</u> is diminishing. It is expected by May 20 that all vessels will be fishing the more abundant <u>C. opilio</u>.

The Department of Fish & Game recommended on May 15th to the Regional Director that the <u>C. bairdi</u> fishery in the Bering Sea District be closed to commercial fishing on May 24 based on the following information.

- (1) Declining CPUE on <u>C. bairdi</u> and declining weekly catch rate.
- (2) The known concentrations of <u>C. bairdi</u> have been fished by more vessels and gear in 1979 than 1978, yet the total catch is lower indicating a low abundance of crab.
- (3) The 1978 NMFS trawl surveys indicated a 50 percent reduction in number of legals for 1979 compared to 1978.
 The current CPUE and catch rate seems to validate the survey results.
- (4) And finally, evidence of grasping pairs has been reported ed by fishermen indicating that the molting condition is eminent necessitating a closure to protect mating Tanner crab.

On May 15th the announcement was made closing the Bering Sea C. bairdi fishery on May 24th.

Summary

The 1979 Tanner fishery began on March 15th after price

settlement with approximately 130 vessels fishing an average of 400 pots per vessel. After 4 weeks of intense effort it became apparent that the 1979 Tanner catch would fall short of the 1978 harvest, validating the 1978 trawl survey.

As of May 13th the 1979 Tanner fleet has pulled 351,763 pots landing 38.1 million pounds of <u>C. bairdi</u> and 12.9 million pounds of <u>C. opilio</u>. The value to the fishermen for both species is 23.6 million dollars. It is projected that the final <u>C. bairdi</u> catch will be 40 million pounds and <u>C. opilio</u> will reach 25 million pounds.

In 1978, 508,766 pots were pulled for 66.2 million pounds of <u>C. bairdi</u> valued at 25 million dollars and 1.7 million pounds of <u>C. opilio</u> worth 500,000 dollars.

Table I. 1979 Bering Sea CPUE Data April 8 Through May 13

	Ves	sels Delivering	C. bairdi		
Week Ending April 8 15 22 29 May 6 13	Landings 67 42 36 28 30 13	Crab 1,939,540 1,266,626 984,588 819,991 543,223 222,097	Pot Lifts 39,308 26,523 20,980 18,564 16,875 5,451	C. bairdi CPUE 49 48 47 44 32 41	
Subtotal	216	5,848,065	127,701	48	•
	Vessels Deli	vering C. baird	i and C. opilio		
Week Ending April 8 15 22 29 May 6 13	Landings 15 27 38 15 41 40	Crab 443,581 670,950 596,284 319,174 378,257 320,953	Pot Lifts 9,270 14,837 19,170 15,666 17,910 15,856	CPUE -1 48 45 31 25 21 20	-
Subtotal	176	2,729,199	92,709	29	
	A	ll Vessel Deliv	eries		
Week Ending April 8 15 22 29 May 6 13	Landings 82 69 74 43 71 53	Crab 2,383,121 1,937,576 1,580,872 1,139,165 921,480 543,050	Pot Lifts 48,578 41,360 40,150 34,230 34,785 21,307	CPUE 49 47 39 33 26 25	
TOTAL	392	8,505,264	220,410	3 9	

U Does not include C. Opilio crab

Figure 1. A comparison of CPUE for those vessels fishing only C. bairdi and C. opilio in the Bering Sea District, 1979.

Week Ending

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	5-13			4-22	9-4	4-3		
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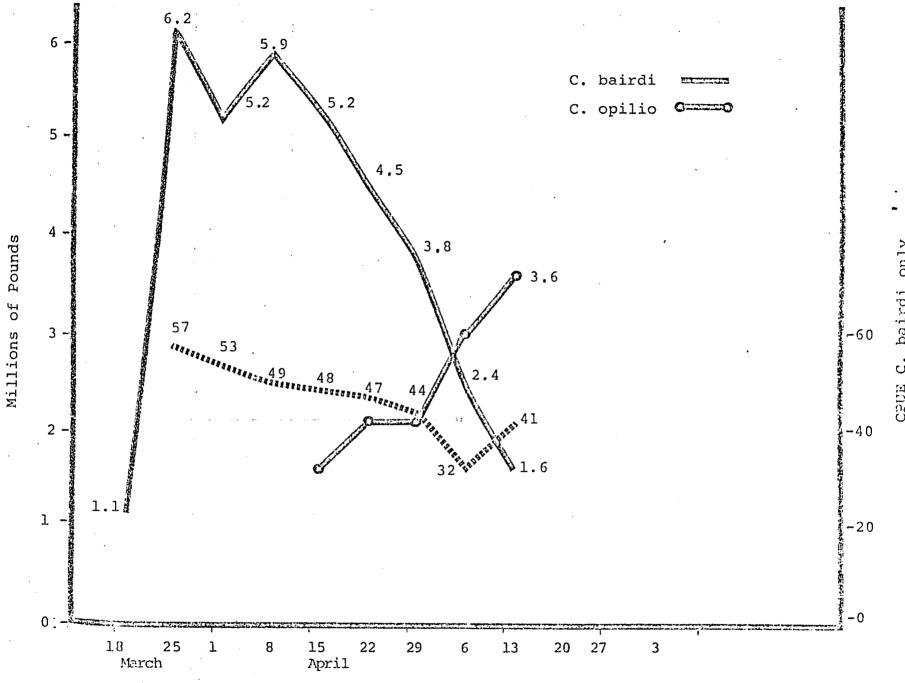


Figure 2. C. bairdi catch per week, Bering Sea 1979.

1978-79 Bering Sea District
C. bairdi Catch Through May 13
Preliminary

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1978-79 Bering Sea District C. opilio Catch Through May 13, 1979 Preliminary

TOTAL	Sub-total	351-35	351-25	351-24	351-15	351-14	Pribilofs	Sw-total	1 1	351-31	351-21	350-61	350-52	350-51	350-44	350-43	350-42	350-41	350-35	350-34	350-33	9	ıĻ	350-24				311-51	311-41	311-31	<u>31120</u>	Area.	カナリナ
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Figure - ADF&G statistical sub-areas included in the Bering Sea crab fishery.

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Figure - ADFAG statistical sub-areas included in the Bering Sea crab fishery.

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Figure - ADFAG statistical sub-areas included in the Bering Sea crab fishery.
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