

A SUMMARY OF BIOLOGICAL DATA COLLECTED DURING
THE 1994 BRISTOL BAY RED KING CRAB TEST FISHERY CHARTER

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TABLE OF CONTENTS

	<u>Page</u>
LIST OF FIGURES	i
LIST OF APPENDICES	ii
INTRODUCTION	1
METHODS AND PROCEDURES	1
Fishing Itinerary	2
Study Area	2
Sampling Design	2
Catch Sampling	3
Ancillary Data Collections	3
RESULTS AND DISCUSSION	4
Catch Composition	4
Red King Crab	4
Sex Composition and Catch Per Unit Effort	5
Length Distribution and Shell Age	5
Incidence of Handling-Induced Injury or Mortality, and Diseases	6
Cost Recovery	6
Tanner Crab	6
Sex Composition and Catch Per Unit Effort	6
Width Distribution and Shell Age	6
Incidence of Handling-Induced Injury or Mortality, and Diseases	7
Ancillary Data Collections	7
LITERATURE CITED	8
FIGURES	10
APPENDICES	19

LIST OF FIGURES

<u>Figure</u>	<u>Page</u>
1. Location of 1994 Bristol Bay red king crab test fishery	10
2. Length frequency of male and female red king crabs caught in survey pots during the 1994 Bristol Bay test fishery, by 5-mm length classes	11
3. Length frequency of male and female red king crabs caught in cost recovery pots during the 1994 Bristol Bay test fishery, by 5-mm length classes	12
4. Shell age of male red king crabs caught in survey pots during the 1994 Bristol Bay test fishery, by 2-mm length classes	13
5. Shell age of male red king crabs caught in cost recovery pots during the 1994 Bristol Bay test fishery, by 2-mm length classes	14
6. Width frequency of male and female Tanner crabs caught in survey pots during the 1994 Bristol Bay test fishery, by 5-mm width classes	15
7. Shell age of male Tanner crabs caught in survey pots during the 1994 Bristol Bay test fishery, by 2-mm width classes	16
8. Width frequency of male and female Tanner crabs caught in cost recovery pots during the 1994 Bristol Bay test fishery, by 5-mm width classes	17
9. Shell age of male Tanner crabs caught in cost recovery pots during the 1994 Bristol Bay test fishery, by 2-mm width classes	18

LIST OF APPENDICES

<u>Appendix</u>	<u>Page</u>
A. Summary of red king crab fishing and catch data from 162 survey stations in the 1994 Bristol Bay test fishery	20
B. Summary of red king crab fishing and catch data from 26 cost recovery pots in the 1994 Bristol Bay test fishery	23
C. Percent maturity by length class of new-shell, female red king crabs caught in survey pots during the 1994 Bristol Bay test fishery charter	24
D. Percent maturity by length class of new-shell, female red king crabs caught in random pot samples during the 1994 Bristol Bay test fishery charter	26
E. Summary of Tanner crab fishing and catch data from 162 survey stations in the 1994 Bristol Bay test fishery	27
F. Summary of Tanner crab fishing and catch data from 26 cost recovery pots in the 1994 Bristol Bay test fishery	30

INTRODUCTION

At-sea studies of Bristol Bay red king crabs *Paralithodes camtschaticus* have been conducted annually since the inception of the Bering Sea crab test fishery program in 1990 (Watson et al. 1991). The Bering Sea crab test fishery program was initiated for the primary purpose of estimating harvest rates of legal male red king crabs in a portion of Bristol Bay using internal, Passive Integrated Transponder (PIT) tags. Annual surveys are funded under the State of Alaska Test Fishery Program, with revenues generated from the sale of crabs caught during the survey. Project goals and objectives from previous test fishery surveys are documented in Watson and Pengilly (1992, 1993, 1994a, 1994b).

Original plans for 1994 at-sea work were drafted according to the five-year plan for the Bristol Bay red king crab PIT tag project (Watson and Pengilly 1994a). Under the plan, a limited PIT tagging effort was to be conducted in 1994 to evaluate the feasibility of a full-scale mark-recapture program in 1995. However, tagging was deleted from the 1994 survey objectives when the 1994 Bristol Bay commercial fishery was closed due to below-threshold abundance of mature female red king crabs (Stevens et al. 1994).

The primary objectives of the 1994 test fishery survey were: 1) conduct cost recovery fishing to fund the test fishery program in FY95, and 2) conduct a random, systematic pot survey of a portion of Bristol Bay red king crab habitat to determine species, sex, and size composition of crabs within the survey area. The purpose of this report is to document the catch composition of crabs, their relative distribution, and related biological data from survey catches.

METHODS AND PROCEDURES

For purposes of this report, terms related to the sampling of red king crabs are as follows:

Carapace Length (CL) - the straight line distance across the carapace from the posterior margin of the right eye orbit to the medial-posterior margin of the carapace.

Legal Size - male crabs ≥ 165 mm (6.5 in) in width including lateral spines.

Pre-Recruit Males - male crabs between 132-164 mm (5.2-6.4 in) in width.

Mature Males - male crabs ≥ 120 mm CL.

Immature Males - male crabs < 120 mm CL.

Soft shell - crabs that have molted within the previous two months.

New-Shell - crabs that have molted between the preceding two to twelve months.

Old-Shell - crabs that have molted between the preceding twelve to twenty-four months.

Tanner crab *Chionoecetes bairdi* and snow crab *Chionoecetes opilio* were classified as follows:

Carapace Width (CW) - the greatest straight-line distance across the carapace at a right angle to a line midway between the eyes to the medial-posterior margin of the carapace not including the spines; the biological size measurement of *C. bairdi* and *C. opilio*.

Legal Size - male crabs ≥ 140 mm (5.5 in) width, including lateral spines.

New-Shell - crabs that have molted between the preceding two to twelve months.

Old-Shell - crabs that have molted between the preceding twelve to twenty-four months.

Very old shell - crabs that have not molted within the preceding twenty-four months.

Fishing Itinerary

Fishing took place during a 28 d period from September 26 to October 23, 1994 aboard the 36-m (118 ft) chartered crabber, FV *Kristen Gail*. Systematic data collection was conducted primarily during the first two weeks of the charter, but continued concomitant with cost recovery fishing until October 19 when only cost recovery fishing was conducted.

Study Area

The survey was concentrated in a 8,900 km² (3,400 nm²) area encompassing a portion of the harvestable red king crab population located in Bristol Bay. The study area chosen in 1994 is part of a larger, standard survey grid designed for future Bristol Bay test fish surveys (Watson and Pengilly, in press). The area was chosen because large concentrations of legal red king crabs have been found in this area since 1990 (Stevens and MacIntosh 1990; Stevens et al. 1991, 1992, 1993, 1994; Byersdorfer and Watson 1992, 1993) and because it has been the focus of the commercial king crab fishery. The general survey area was similar to the area fished during past charters mostly between 56° and 57° N latitude and 161° and 164° W longitude (Figure 1).

Sampling Design

To maximize coverage of crab concentrations within the survey area, 162 stations were set in a systematic pattern. Each station consisted of four, 2.1 m x 2.1 m (7.0 ft x 7.0 ft) commercial side-loading king crab pots with 12.7 cm (5.0 in) stretch mesh, set 0.2 km (0.13 nm) apart in a linear east-west or north-south axis, depending on prevailing weather conditions. The location identified for a station was the eastern or northern-most point of the string of four pots. Each station was set at 8 km (5 nm) intervals. Thirty-six pots were pulled, sampled and re-set on a

daily basis in an attempt to maintain a standard soak time of two days. During cost recovery fishing five to ten randomly selected pots were chosen each day for catch composition sampling. Once the number of pots to be pulled that day was known, the pot numbers were chosen by using a table of random digits. All survey pots were baited with 1.9 L (2.0 qt) of frozen herring. Fresh cod *Gadus macrocephalus* was used as additional hanging bait where possible only in the cost recovery pots. Detailed methodology for sampling design is in Watson and Pengilly (in press).

Catch Sampling

The contents of each sampled pot were unloaded to a sorting table where all crabs were sorted by species, sex and size. Sub-legal and female red king crabs and all miscellaneous crab species remained on the sorting table to be sampled by one group of biologists, while all legal red king and Tanner crabs were transferred to a second sorting table for sampling by another group of biologists. A maximum of 30 for each sex-size class of red king and *Tanner* crab were sampled. The sampling fraction was determined for each sampled group and recorded for each pot. Expansions of data using the sampling fractions were later calculated. Thus, for a pot with 100 red king crabs, only 30 of which were sampled, the fraction was 3.3 and each crab sampled counted for 3.3 crabs in summaries (eg. size, shell age). One-hundred percent of the crabs of miscellaneous species were sampled.

Each sampled crab was measured to the nearest millimeter (carapace length or CL for red king crab; carapace width or CW for Tanner and snow crab). Shell age of king, Tanner and snow crabs was also recorded. Additionally, a commercial measuring stick was used on carapaces of male red king and Tanner crabs to classify them as either legal or sublegal.

All sampled crabs were grossly examined for any handling-induced injury or mortality. Additionally, all sampled females were examined for the presence of eggs, empty egg cases, and clutch size for determination of maturity and mating activity. Sampling instructions are detailed in Watson and Pengilly (in press).

Ancillary Data Collections

Crabs were collected opportunistically throughout the charter for the fall 1994 mandatory shellfish observer practicum scheduled to take place aboard the vessel following the completion of the test fish charter. Approximately 100 crabs of commercial value were to be retained for this test. Crabs for the observer practicum were to be placed in "onion" bags in the vessel holds. This kept them alive and segregated from the rest of the crabs and easily accessible during delivery of cost recovery crabs.

At the request of the Department of Environmental Conservation (DEC), 4 red king crabs, snow and Tanner crabs, Tanner hybrids and any snails caught were to be collected from each statistical area fished and frozen whole. These specimens were to be turned over to DEC upon completion of the charter for subsequent analysis to determine the baseline level of paralytic shellfish poison (PSP) and domoic acid present in the viscera of commercially-important Bering Sea shellfish.

Instructions for all ancillary data collections may be found in Watson and Pengilly (in press).

RESULTS AND DISCUSSION

During the survey a total of 162 stations were set with 4 pots in a station (Appendix A). During cost recovery 13 strings of gear were set with a total of 265 pot sets. A total of 913 pot sets were made, but only 910 pulled over the 28 d period due to 3 lost pots; all 648 survey pots were sampled and 26 pots were randomly sampled from the cost recovery strings.

The number of survey pot pulls each day was 36 but the number of cost recovery pot pulls each day ranged from 0-108. The soak time on the survey pots averaged 43 h per pot and ranged from 28 h to 71 h. The soak time on cost recovery pots averaged 84 h and ranged from 30 h to 265 h.

Catch Composition

A total of 36,366 crabs were captured in 648 survey pot samples. Red king crabs predominated sample catches (68.0%), followed by Tanner crabs (30.7%), Tanner hybrids (1.0%), snow crabs (0.2%), and Korean hair crabs *Erimacrus isenbeckii* (0.1%). On several occasions the hair crabs were observed to be in the process of mating while in the pots. Most of the female hair crabs were assessed as having soft or new-soft shells.

A total of 24,852 king crab were captured in the 648 survey pots and of these 6,424 were legal. These data are not directly comparable to results from previous surveys because other surveys were either not systematic or were conducted during a different time frame.

A total of 3,138 crabs were captured in the 26 random sample pots. As with the survey pots red king crabs predominated the sample catches (80.1%), followed by Tanner crabs (18.2%), Tanner hybrids (1.5%), and snow crabs (0.2%). No Korean hair crabs were found in cost recovery pots. For the remainder of this report only results related to red king crab and Tanner crab will be reported.

Red King Crab

A total of 24,852 red king crabs were caught in the 648 survey pots; however, only 17,480 were sampled. King crab data presented hereafter for survey pots has been expanded to reflect the 24,852 crabs caught in the 648-pot sample. A total of 2,515 red king crabs including 923 legals, were caught in the 26 cost recovery random pot samples. However, only 1,580 were sampled. King crab data presented hereafter for cost recovery random pot samples has been expanded to reflect the 2,515 crabs caught in the 26 random pot samples (Appendix B).

Sex Composition and Catch Per Unit Effort

Of the 24,852 red king crabs caught in the 648 survey pots; 85% were males and 15% were females. Of the 2,515 red king crabs caught in the 26 cost recovery pots; 96% were males and 4% were females. Length frequency and shell age data were obtained on 7,347 legal red king crabs that were sampled in the survey and cost recovery pots. The catch per station of legal male red king crabs in the survey ranged from 0 to 119 with an average of 9.9 crabs (Appendix A). Catch per pot (C/P) of legal male red king crabs in the cost recovery pots ranged from 0 to 57 with an overall average of 35.5 crabs (Appendix B). Random sample pots were taken from cost recovery fishing pots that were fished in areas where high concentrations of legal male red king crabs were found therefore this C/P data can't be compared to any other data.

The catch per station of female red king crabs in the survey ranged from 0-120 with an overall catch per pot (C/P) average of 5.6 crabs (Appendix A). Of the total females caught in survey pots, 49.1% were mature adults (Appendix C). The catch per pot of female red king crabs in random sample cost recovery pots ranged from 0-31 with an average of 4 crabs (Appendix B). Of the total females caught in cost recovery pots 4.8% were mature adults (Appendix D).

Length Distribution and Shell Age

Length frequency distributions for male and female red king crabs in survey pots are shown in Figure 2. Male red king crab size modes were noted around 90 and 135 mm CL. The average size of legal male crabs in survey pots was 148 mm, slightly less than observed in the 1991, 1992 and 1993 surveys (Byersdorfer and Watson 1992, 1993 and 1994). Of the 20,403 mature males (≥ 120 mm CL) in survey pots 31% were of legal size. Length frequency distributions for male and female red king crabs in cost recovery pots are shown in Figure 3. Male red king crab size modes were noted around 95 and 130 mm CL. The average size of legal male crabs in random sample pots was 150 mm.

The size modes for female red king crabs in survey pots were noted around 85 and 110 mm CL. The average size of mature female crabs in survey pots was 113 mm CL with a range of 81 to 152 mm. The size mode for female red king crabs in cost recovery pots was 85 mm CL. The average size of mature female crabs in cost recovery pots was 118 mm CL with a range of 108 to 129 mm.

Among all males in survey pots, 89% were new-shell and 11% were old-shell crabs (Figure 4). However, of the 6,424 legal-size males caught, 24% were old-shell. This is much higher than the 15% old-shell crabs that were caught in the 1993 Bristol Bay red king crab fishery (ADF&G 1994) and the 17% old-shell crabs caught in the 1993 ADF&G tagging study (Byersdorfer et.al. 1994). Among all males in the cost recovery pots 87% were new-shell and 13% were old-shell crabs (Figure 5). Among the 923 legal males in the cost recovery pots, 74% were new-shell and 26% old-shell crabs.

Incidence of Handling-Induced Injury or Mortality, and Diseases

The overall rate of handling-induced injury or mortality for red king crab was quite low in both survey and cost recovery pots: 0.1% were injured in survey pots, 0.2% in cost recovery pots (mostly cracked carapaces or injured legs).

Cost Recovery

Approximately 14,807 male red king crabs ≥ 152 mm (6 in) CW were sold to offset the cost of the 1994 Bering Sea tagging studies. An additional 750 male red king crabs were landed as dead loss. The average weight per crab as calculated from fish ticket receipts was 2.7 kg (6.0 lb), similar to the 1993 test fishery (Byersdorfer et.al. 1994) when crabs averaged 2.8 kg (6.3 lb).

Tanner Crab

A total of 11,151 Tanner crabs were caught in the 648 survey pots; however, only 10,743 crabs were sampled. Tanner crab data presented hereafter has been expanded to reflect the 11,151 crabs caught in the 648-pot sample (Appendix E). A total of 570 Tanner crabs were caught in the 26 random pot samples. However, only 552 were sampled. Tanner crab data presented hereafter for cost recovery random pot samples has been expanded to reflect the 570 crabs caught in the 26 random pot samples.

Sex Composition and Catch Per Unit Effort

Of the 11,151 Tanner crabs caught in the 648 survey pots, 81% were males and 19% were females. The catch of legal male Tanner crabs per station in the survey ranged from 3 to 265 with an average of 9.2 crabs per pot. Of the 570 Tanner crabs caught in the 26 random pot samples 97% were males and 3% were females. The catch of legal male Tanner crabs in the cost recovery random pot samples ranged from 2 to 39 with an average of 15 crabs per pot. Male and female Tanner crab catch per station for the survey is summarized in Appendix E; cost recovery per pot in Appendix F.

Width Distribution and Shell Age

Width frequency distributions for male and female Tanner crabs in the 648 survey pots are shown in Figure 6. Prominent size modes for males were noted around 135 and 155 mm CW. Among all males, 76% were new shell and 24% were old shell (Figure 7). Of the 5,941 legal males caught 85% were new shell crabs. Width frequency distributions for male and female Tanner crabs in the 26 cost recovery pots are shown in Figure 8. Prominent size modes for males were noted around 135, 145 and 155 mm CW. Among all males, 86% were new shell and 14% were old shell (Figure 9). Of the 387 legal males 90% were new shell. For cost recovery fishing the vessel targeted on locating and catching recruit and legal male red king crabs, the sex and size composition data presented here for cost recovery Tanner crab should not be considered representative of the Bering Sea population.

Incidence of Handling-Induced Injury or Mortality, and Diseases

The overall rate of handling-induced injury or mortality in Tanner crabs was quite low in both survey and cost recovery pots: 0.5% were injured in survey pots and 0.4% were injured in cost recovery pots (mostly broken carapaces and torn leg segments).

Ancillary Data Collections

Approximately 100 live male and female red king crabs, Tanner, snow and hybrid Tanner/snow crabs were retained for the observer test. Observer candidates identified, measured, counted and examined all retained crabs during offloading on October 23, 1994.

A total of 23 Tanner crabs and 24 red king crabs were collected from 6 statistical areas for analysis by DEC for the presence of PSP and domoic acid. Domoic acid was not found in any of the sampled red king crabs but large amounts of PSP were detected in Tanner crab from one statistical area. As a result all crab harvested from ADF&G Area J7, Bering Sea District Eastern Subdistrict was required to be sectioned and viscera removed prior to any sales to prevent transmission of PSP.

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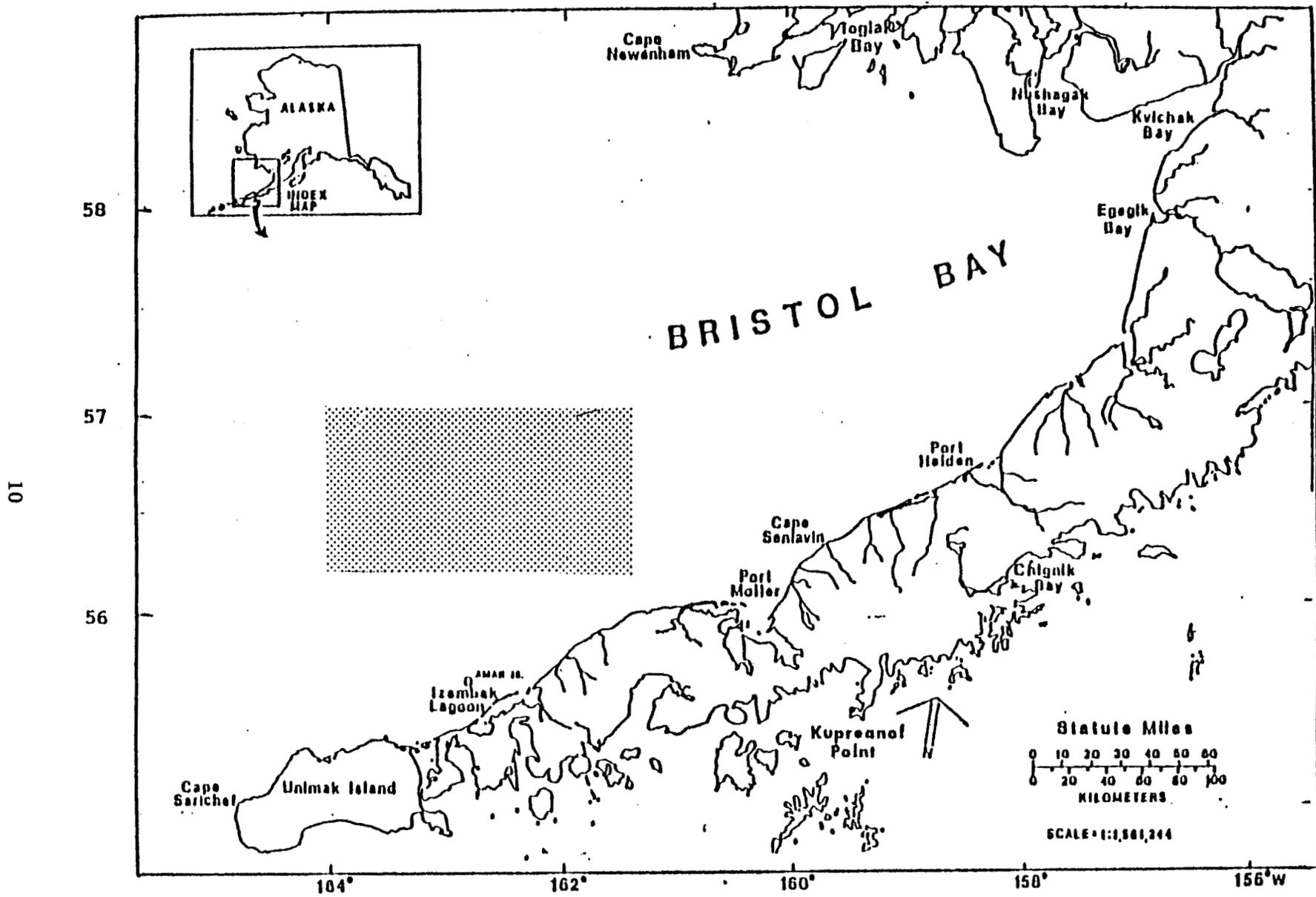


Figure 1. Location of 1994 Bristol Bay red king crab test fishery.

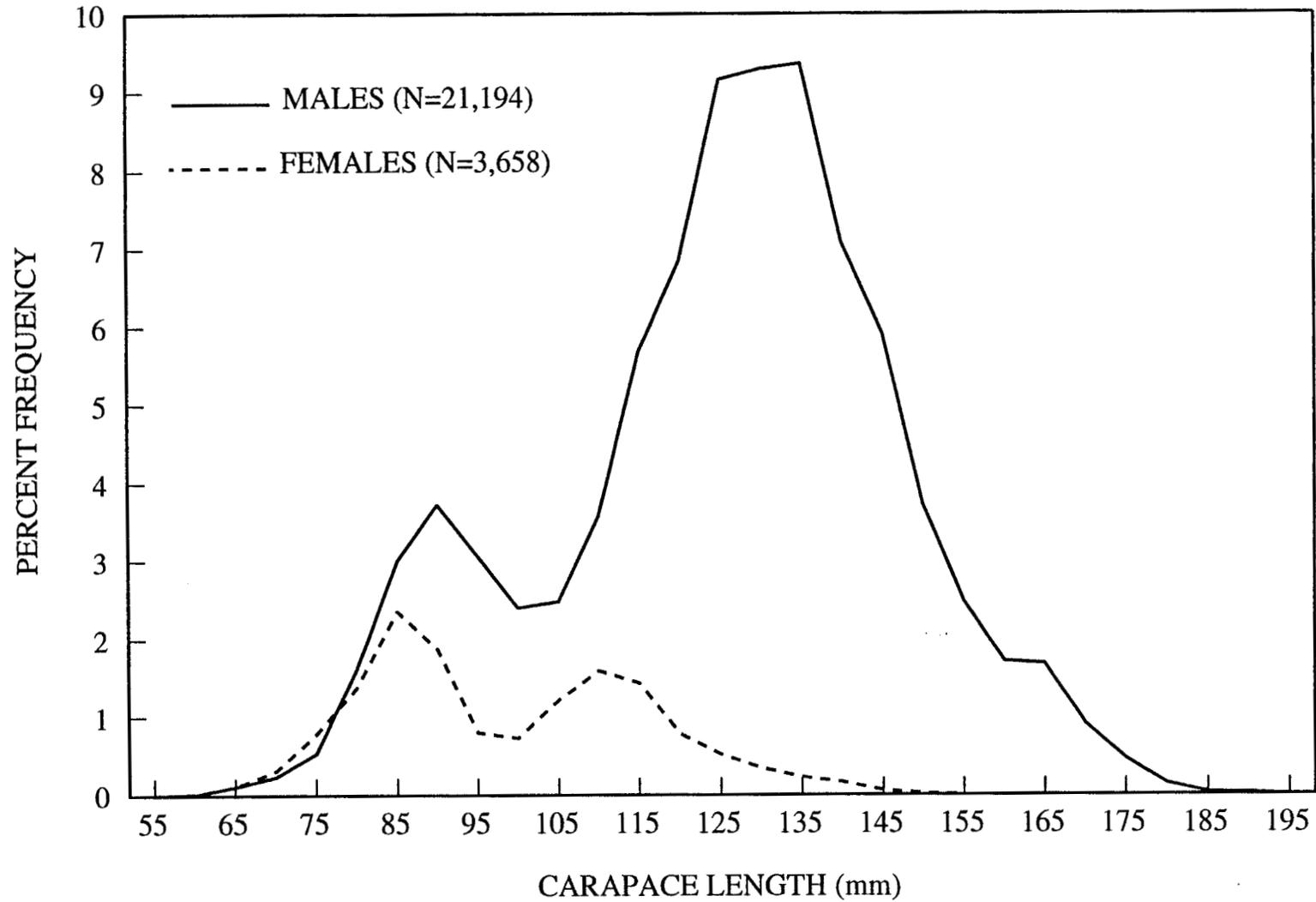


Figure 2. Length frequency of male and female red king crabs caught in survey pots during the 1994 Bristol Bay test fishery, by 5-mm length classes.

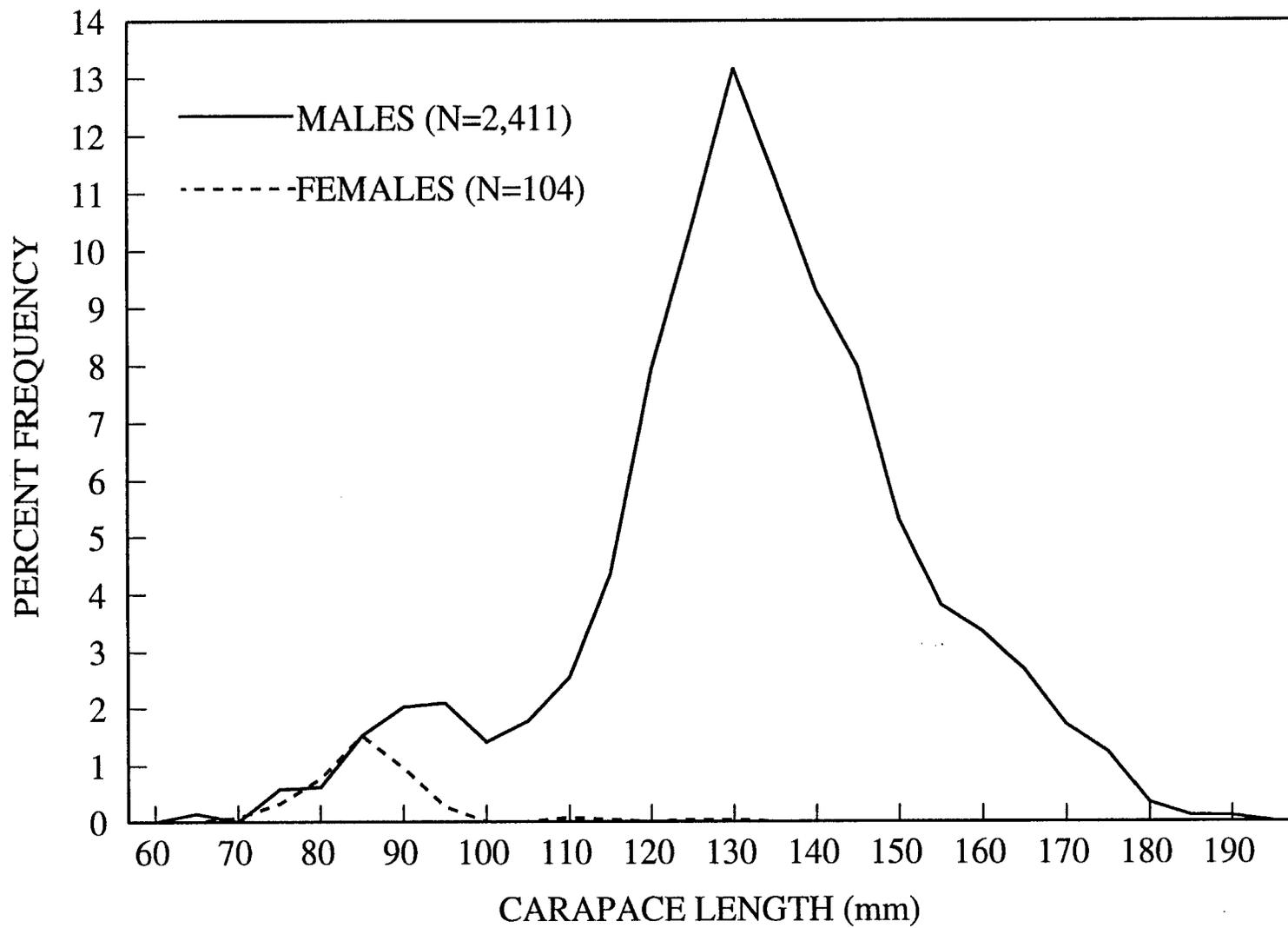


Figure 3. Length frequency of male and female red king crabs caught in cost recovery pots during the 1994 Bristol Bay test fishery, by 5-mm length classes.

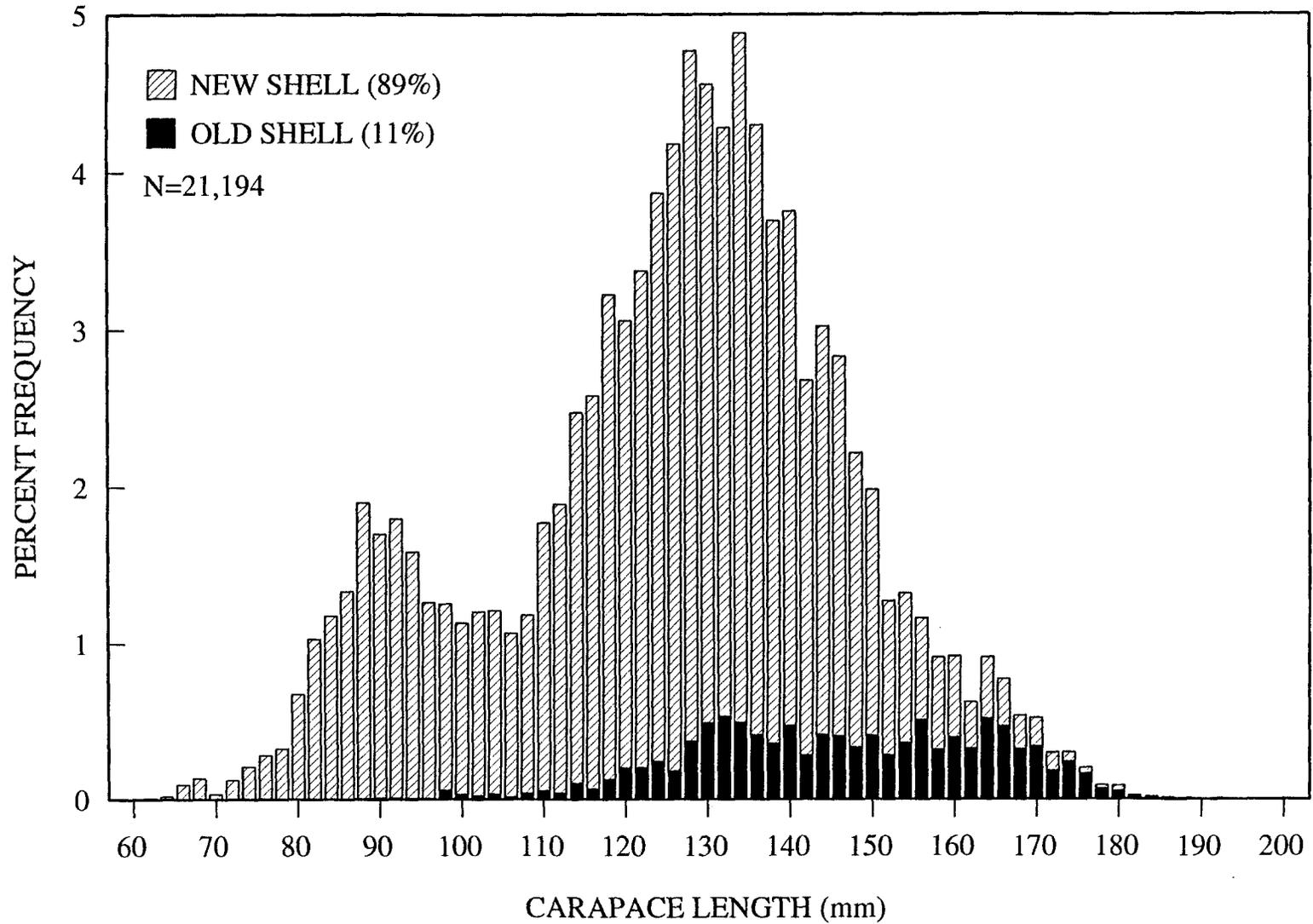


Figure 4. Shell age of male red king crabs caught in survey pots during the 1994 Bristol Bay test fishery, by 2-mm length classes.

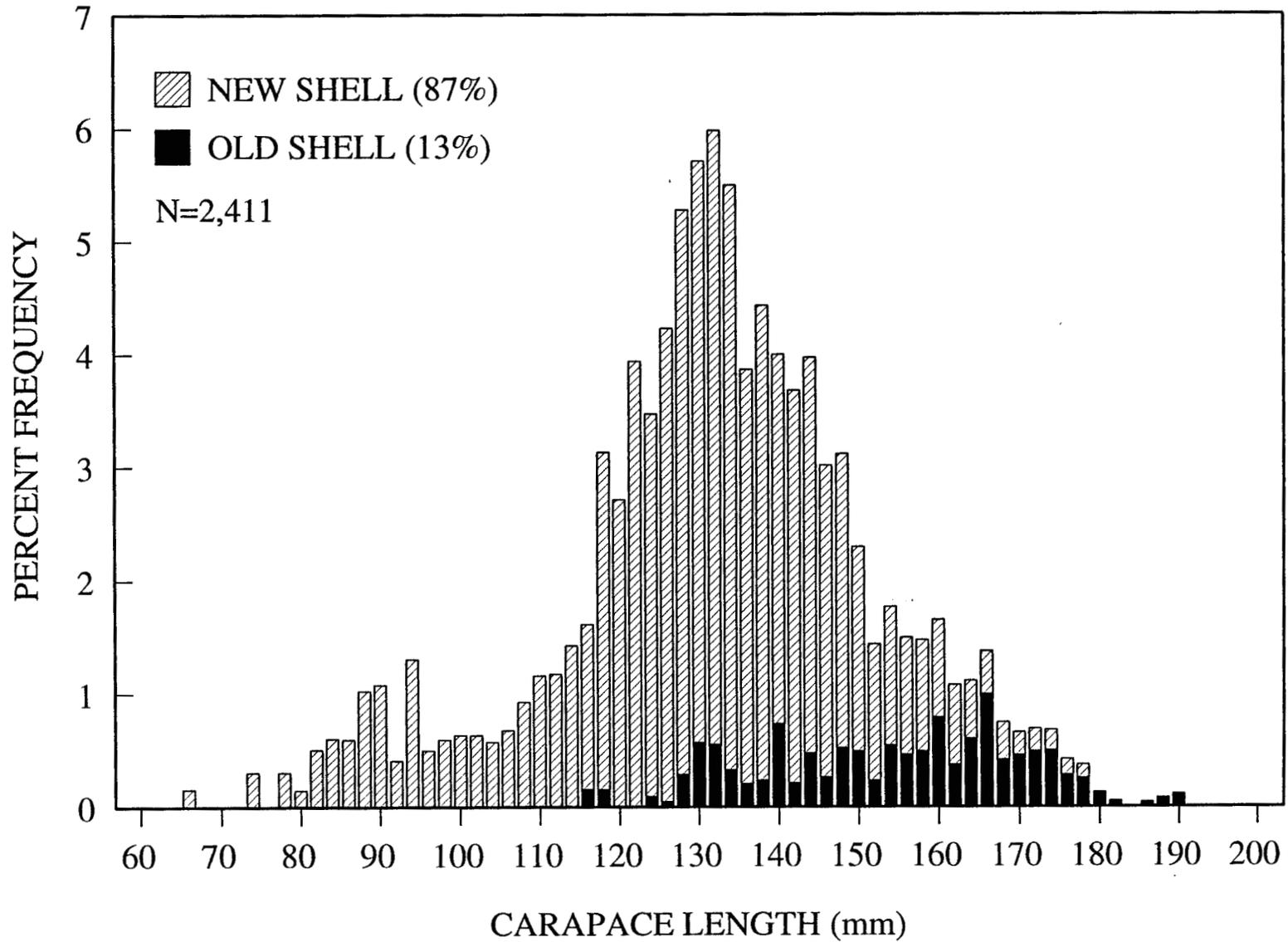


Figure 5. Shell age of male red king crabs caught in cost recovery pots during the 1994 Bristol Bay test fishery, by 2-mm length classes.

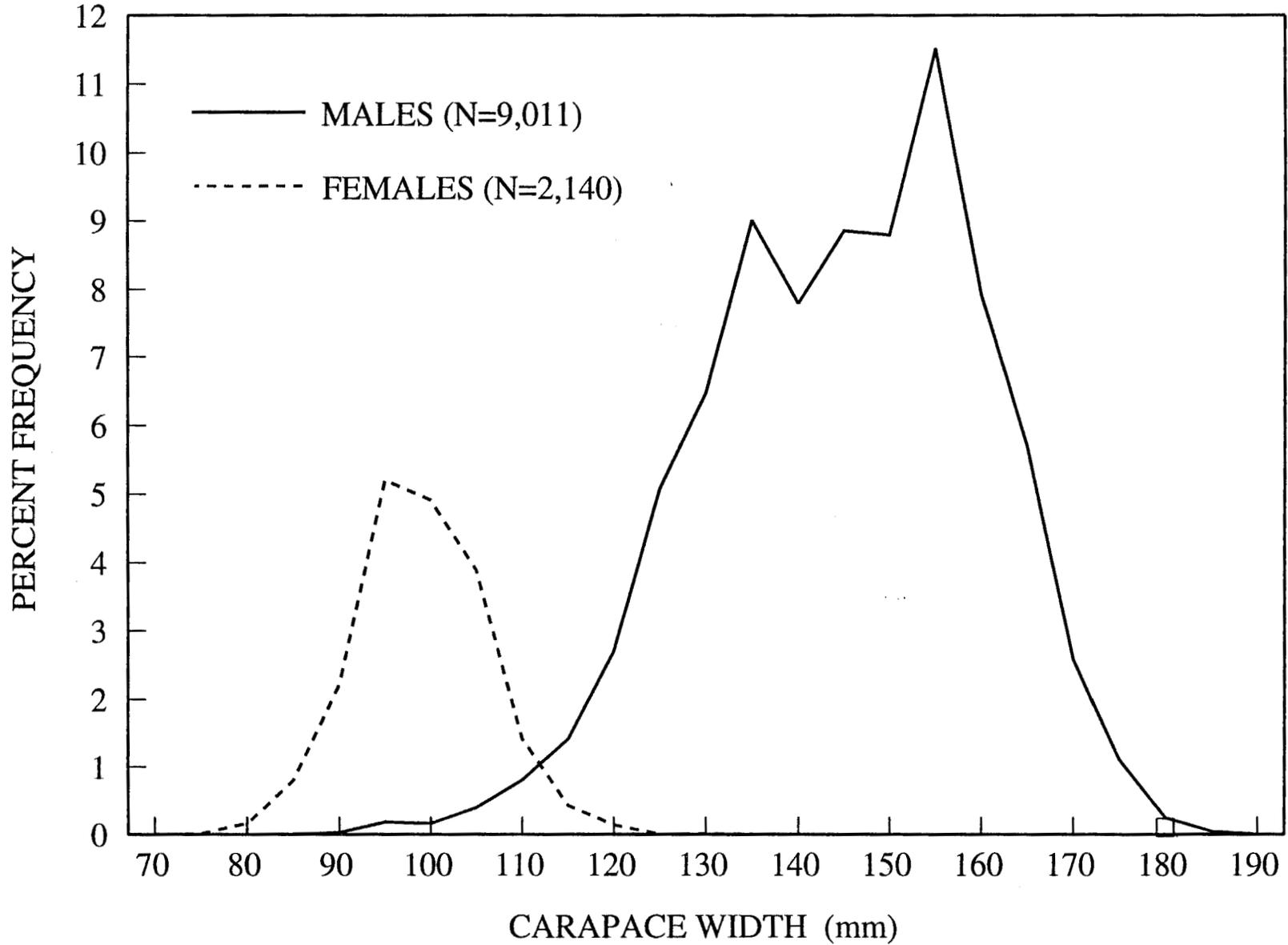


Figure 6. Width frequency of male and female Tanner crabs caught in survey pots during the 1994 Bristol Bay test fishery, by 5-mm with classes.

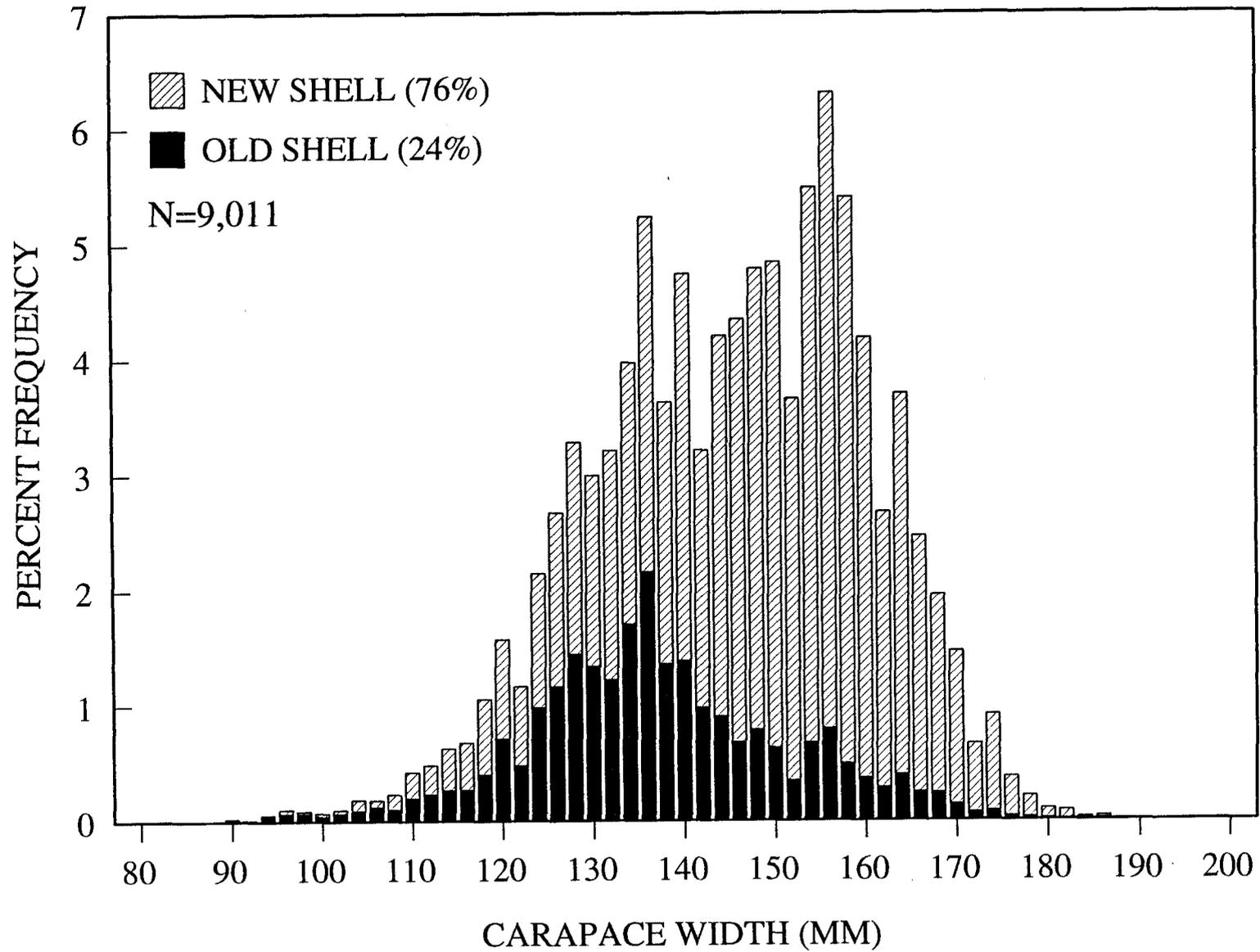


Figure 7. Shell age of male Tanner crabs caught in survey pots during the 1994 Bristol Bay test fishery, by 2-mm width classes.

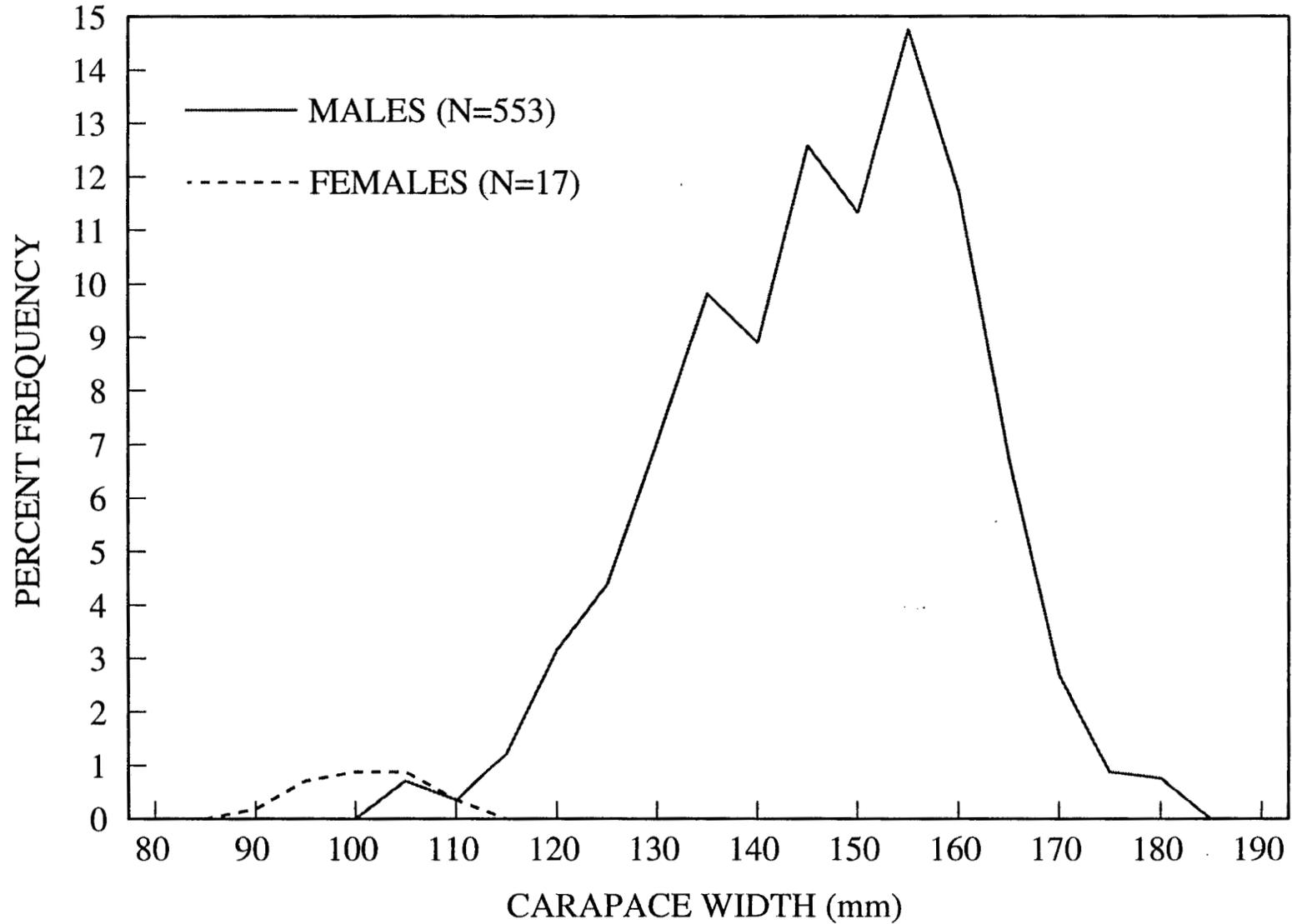


Figure 8. Width frequency of male and female Tanner crabs caught in cost recovery pots during the 1994 Bristol Bay test fishery, by 5-mm width classes.

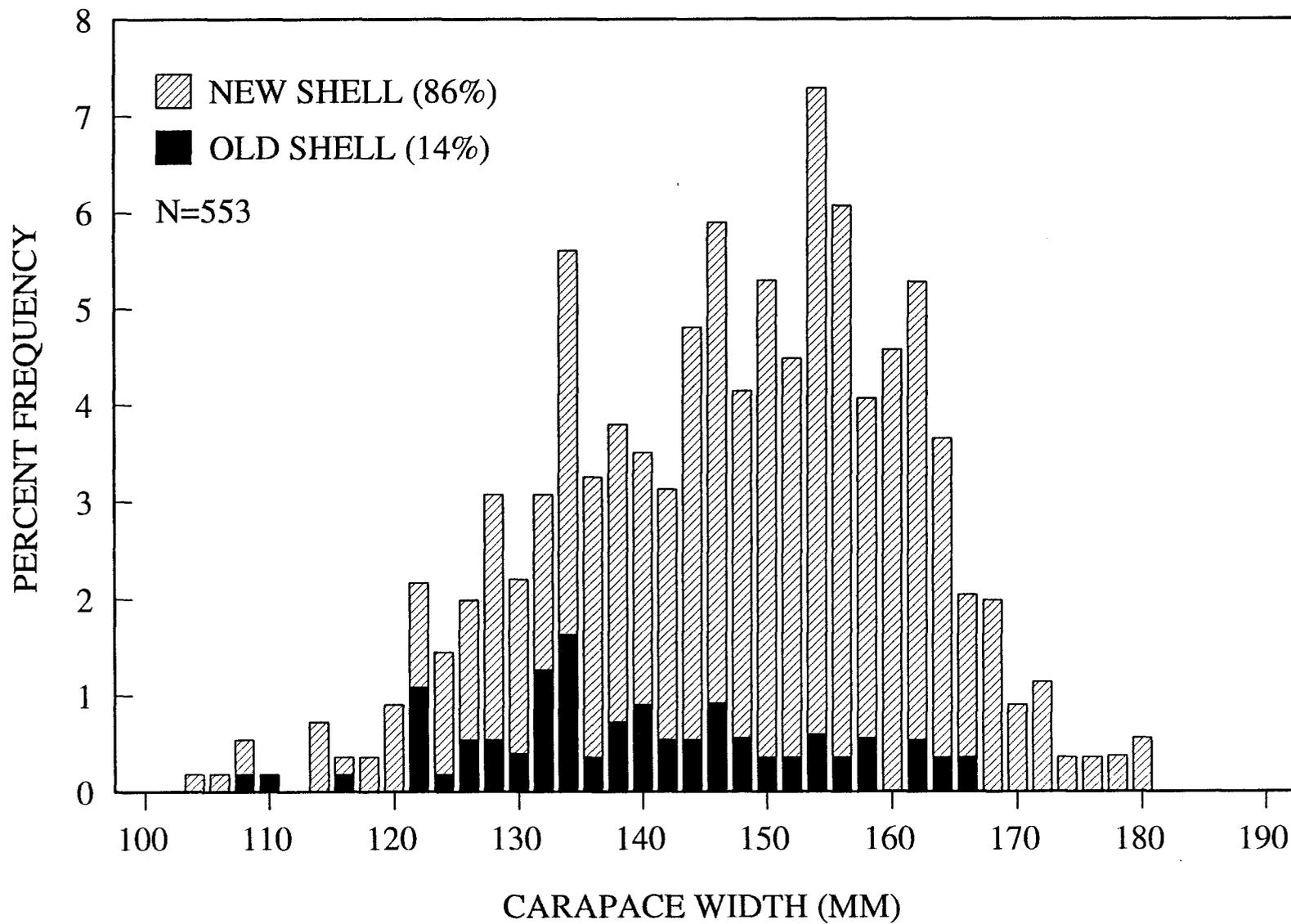


Figure 9. Shell age of male Tanner crabs caught in cost recovery pots during the 1994 Bristol Bay test fishery, by 2-mm width classes.

APPENDIX

Appendix A. Summary of red king crab fishing and catch data from 162 survey stations in the 1994 Bristol Bay test fishery.

Station	Date	North Lati- tude	West Longi- tude	Depth (m)	No. of Pots Sampled	Total Catch Per Station			Legal C/P			
						Females	Males	Legal				
						<120mm	≥120mm					
101	10/15	57	2.28	163	59.31	66	4	0	0	0	7	1.7
102	10/15	57	2.74	163	50.21	66	4	1	0	1	15	3.7
103	10/15	57	2.28	163	41.02	64	4	0	0	8	18	4.5
104	10/14	57	2.69	163	31.93	64	4	0	5	42	44	11.0
105	10/14	57	2.26	163	22.80	64	4	0	7	41	60	15.0
106	10/14	57	2.77	163	13.75	60	4	1	18	88	99	24.7
107	10/10	57	2.50	163	4.57	60	4	0	1	23	21	5.3
108	10/10	57	2.50	162	55.50	59	4	0	36	47	49	12.3
109	10/10	57	2.52	162	46.29	59	4	4	80	126	72	18.0
110	10/11	57	2.50	162	38.15	59	4	11	93	90	42	10.5
111	10/11	57	2.50	162	29.02	59	4	9	39	19	10	2.5
112	10/11	57	2.50	162	19.88	59	4	4	1	3	11	2.7
113	10/12	57	2.50	162	10.80	55	4	50	40	32	26	6.5
114	10/12	57	2.50	162	1.76	57	4	7	17	35	22	5.5
115	10/12	57	2.50	161	52.49	53	4	29	128	71	61	15.3
116	09/30	57	2.50	161	42.43	64	4	14	41	73	66	16.5
117	09/30	57	2.50	161	33.32	64	4	36	187	120	97	24.2
118	09/30	57	2.50	161	24.20	68	4	18	41	110	88	22.0
121	10/15	56	57.25	163	58.76	68	4	0	0	0	1	0.3
122	10/15	56	57.72	163	49.75	68	4	0	2	16	55	13.8
123	10/15	56	57.27	163	40.68	66	4	0	1	12	49	12.3
124	10/14	56	57.75	163	31.64	66	4	0	4	28	31	7.8
125	10/14	56	57.27	163	22.60	66	4	0	11	42	42	10.5
126	10/14	56	57.72	163	13.55	62	4	0	12	56	69	17.2
127	10/10	56	57.50	163	5.47	62	4	1	8	36	33	8.3
128	10/10	56	57.50	162	56.43	60	4	0	11	35	43	10.8
129	10/10	56	57.50	162	47.42	60	4	3	179	240	88	22.0
130	10/11	56	57.50	162	37.40	62	4	3	29	58	36	9.0
131	10/11	56	57.50	162	28.38	64	4	18	235	95	31	7.8
132	10/11	56	57.50	162	19.31	64	4	3	17	28	21	5.3
133	10/12	56	57.50	162	10.29	62	4	27	155	32	38	9.5
134	10/12	56	57.50	162	1.25	51	4	2	2	8	14	3.5
135	10/12	56	57.50	161	52.27	68	4	53	187	66	27	6.8
136	09/30	56	57.50	161	44.00	64	4	302	449	393	142	35.5
137	09/30	56	57.50	161	35.00	66	4	15	75	73	66	16.5
138	09/30	56	57.50	161	25.97	73	4	27	60	23	16	4.0
141	10/15	56	52.27	163	58.77	70	4	0	0	9	36	9.0
142	10/15	56	52.75	163	49.75	70	4	0	0	10	46	11.5
143	10/15	56	52.24	163	40.68	68	4	0	3	27	35	8.8
144	10/14	56	52.75	163	31.63	68	4	0	3	13	50	12.5
145	10/14	56	52.25	163	22.60	68	4	0	17	80	62	15.5
146	10/14	56	52.75	163	13.55	68	4	0	14	45	90	22.5
147	10/10	56	52.50	163	4.51	64	4	0	119	104	49	12.3
148	10/10	56	52.52	162	55.50	62	4	1	84	116	56	14.0
149	10/10	56	52.50	162	46.50	64	4	1	235	163	62	15.5
150	10/11	56	52.50	162	38.34	64	4	1	32	65	83	20.7
151	10/11	56	52.50	162	29.34	62	4	10	39	47	53	13.3
152	10/11	56	52.50	162	20.22	62	4	4	23	33	36	9.0
153	10/12	56	52.50	162	11.21	66	4	8	31	35	24	6.0
154	10/12	56	52.50	162	2.19	73	4	43	114	66	65	16.2
155	10/12	56	52.49	161	53.18	71	4	31	90	29	53	13.3
156	09/30	56	52.50	161	43.15	64	4	75	147	83	48	12.0
157	09/30	56	52.50	161	34.10	75	4	47	70	57	31	7.8
158	09/30	56	52.50	161	25.10	75	4	17	44	54	34	8.5
161	10/17	56	47.74	163	58.77	71	4	0	0	5	25	6.3
162	10/17	56	47.25	163	49.72	70	4	0	1	12	20	5.0
163	10/17	56	47.70	163	40.68	70	4	0	0	12	34	8.5
164	10/16	56	47.74	163	31.67	70	4	0	3	28	44	11.0
165	10/16	56	47.27	163	22.60	70	4	0	5	55	63	15.8

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Appendix A. (page 2 of 3)

Sta- tion	Date	North Lati- tude	West Longi- tude	Depth (m)	No. of Pots Sampled	Total Catch Per Station			Legal C/P		
						Females	Males				
							<120mm	≥120mm	Legal		
166	10/16	56 47.75	163	13.57	68	4	0	5	36	48	12.0
167	10/08	56 47.50	163	4.63	66	4	1	129	216	127	31.7
168	10/08	56 47.50	162	55.47	66	4	0	77	155	89	22.2
169	10/08	56 47.50	162	46.43	64	4	1	152	115	72	18.0
170	10/07	56 47.50	162	37.36	66	4	18	239	172	83	20.7
171	10/07	56 47.50	162	28.36	70	4	4	39	92	85	21.2
172	10/07	56 47.50	162	19.34	70	4	59	366	174	110	27.5
173	10/04	56 47.50	162	10.21	68	4	2	29	49	35	8.8
174	10/04	56 47.52	162	1.18	71	4	3	84	102	82	20.5
175	10/04	56 47.52	161	52.18	70	4	11	61	52	36	9.0
176	10/01	56 47.50	161	44.00	81	4	21	66	24	15	3.7
177	10/01	56 47.50	161	34.94	77	4	11	37	35	35	8.8
178	10/01	56 47.50	161	26.00	73	4	23	45	39	27	6.8
181	10/17	56 42.74	163	58.77	71	4	0	1	6	42	10.5
182	10/17	56 42.36	163	49.72	71	4	0	0	10	27	6.8
183	10/17	56 42.75	163	40.70	71	4	0	1	14	44	11.0
184	10/16	56 42.72	163	31.64	71	4	0	5	17	45	11.3
185	10/16	56 42.27	163	22.62	71	4	0	7	44	47	11.8
186	10/16	56 42.68	163	13.59	71	4	0	7	45	68	17.0
187	10/08	56 42.50	163	5.50	71	4	0	12	51	36	9.0
188	10/08	56 42.50	162	56.51	68	4	0	2	17	62	15.5
189	10/08	56 42.50	162	47.42	70	4	1	28	41	103	25.7
190	10/07	56 42.50	162	38.38	70	4	0	37	66	69	17.2
191	10/07	56 42.50	162	29.30	73	4	8	174	146	126	31.5
192	10/07	56 42.50	162	20.29	68	4	1	53	90	76	19.0
193	10/04	56 42.50	162	11.21	71	4	3	54	92	77	19.2
194	10/04	56 42.50	162	2.23	71	4	5	155	144	91	22.7
195	10/04	56 42.50	161	53.15	79	4	18	79	117	67	16.7
196	10/01	56 42.49	161	43.18	71	4	56	57	19	8	2.0
197	10/01	56 42.50	161	34.13	81	4	270	23	14	10	2.5
198	10/01	56 42.50	161	25.07	79	4	120	153	20	7	1.7
201	10/17	56 37.74	163	58.79	75	4	0	0	4	27	6.8
202	10/17	56 37.24	163	49.72	75	4	0	0	4	9	2.2
203	10/17	56 37.65	163	40.68	75	4	0	0	5	13	3.2
204	10/16	56 37.74	163	31.63	75	4	0	4	27	37	9.3
205	10/16	56 37.34	163	22.59	75	4	0	1	15	29	7.3
206	10/16	56 37.72	163	13.56	75	4	0	6	19	31	7.8
207	10/08	56 37.50	163	4.55	73	4	0	22	65	52	13.0
208	10/08	56 37.50	162	55.56	73	4	0	16	55	42	10.5
209	10/08	56 37.49	162	46.46	73	4	1	53	111	49	12.3
210	10/07	56 37.50	162	37.40	75	4	1	4	30	29	7.3
211	10/07	56 37.50	162	28.65	70	3	4	26	77	57	19.0
212	10/07	56 37.50	162	19.31	71	4	4	181	225	154	38.5
213	10/04	56 37.50	162	11.26	75	4	4	63	91	83	20.7
214	10/04	56 37.50	162	1.24	77	4	115	174	91	72	18.0
215	10/04	56 37.50	161	52.15	70	4	79	80	31	21	5.3
216	10/01	56 37.47	161	44.20	82	4	68	94	43	28	7.0
217	10/01	56 37.50	161	35.00	84	4	197	213	67	7	1.7
218	10/01	56 37.50	161	25.93	66	4	122	4	6	1	0.3
221	10/19	56 32.70	163	58.75	77	4	0	0	1	10	2.5
222	10/19	56 32.25	163	49.75	79	4	0	0	9	18	4.5
223	10/19	56 32.74	163	40.68	77	4	0	0	5	26	6.5
224	10/18	56 32.70	163	31.64	79	4	0	1	10	23	5.8
225	10/18	56 32.25	163	22.60	79	4	0	3	28	39	9.8
226	10/18	56 32.70	163	13.56	79	4	0	7	22	25	6.3
227	10/09	56 32.50	163	4.51	79	4	0	4	28	38	9.5
228	10/09	56 32.50	162	55.47	77	4	0	7	25	43	10.8
229	10/09	56 32.49	162	46.44	75	4	0	16	80	52	13.0
230	10/06	56 32.50	162	37.34	73	4	0	15	61	66	16.5
231	10/06	56 32.49	162	28.36	73	4	0	1	4	5	1.2
232	10/06	56 32.52	162	19.32	75	4	2	29	101	103	25.7
233	10/03	56 32.50	162	10.29	75	4	1	6	25	27	6.8

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Appendix A. (page 3 of 3)

Sta- tion	Date	North Lati- tude	West Longi- tude	Depth (m)	No. of Pots Sampled	Total Catch Per Station				Legal C/P	
						Females	Males		Legal		
						<120mm	≥120mm				
234	10/03	56 32.50	162	1.24	66	4	280	402	157	33	8.3
235	10/03	56 32.50	161	52.18	79	4	58	5	9	10	2.5
236	10/02	56 32.50	161	43.06	92	4	2	1	1	3	0.8
237	10/02	56 32.50	161	34.11	75	4	41	6	4	0	0.0
238	10/02	56 32.50	161	25.10	68	4	65	23	6	5	1.2
241	10/19	56 27.76	163	58.25	81	4	0	0	2	21	5.3
242	10/19	56 27.23	163	49.27	81	4	0	0	0	18	4.5
243	10/19	56 27.73	163	40.33	81	4	0	1	5	20	5.0
244	10/18	56 27.70	163	31.38	81	4	0	2	4	19	4.8
245	10/18	56 27.25	163	22.39	81	4	0	0	2	9	2.2
246	10/18	56 27.73	163	13.45	81	4	0	1	21	54	13.5
247	10/09	56 27.50	163	5.36	81	4	0	0	14	61	15.3
248	10/09	56 27.51	162	56.58	79	4	0	3	45	79	19.7
249	10/09	56 27.50	162	47.48	77	4	0	0	9	27	6.8
250	10/06	56 27.50	162	38.54	71	4	0	11	19	18	4.5
251	10/06	56 27.50	162	29.60	73	4	0	2	16	18	4.5
252	10/06	56 27.51	162	20.63	71	4	1	2	8	8	2.0
253	10/03	56 27.50	162	11.63	75	4	1	4	21	19	4.8
254	10/03	56 27.50	162	2.73	79	4	121	32	47	22	5.5
255	10/03	56 27.50	161	53.81	81	4	44	2	8	15	3.7
256	10/02	56 27.50	161	44.82	88	4	4	28	73	51	12.8
257	10/02	56 27.48	161	35.72	62	4	84	6	4	2	0.5
258	10/02	56 27.50	161	26.86	64	4	99	2	1	1	0.3
261	10/19	56 22.75	163	58.22	82	4	0	0	1	2	0.5
262	10/19	56 22.29	163	49.26	82	4	0	0	1	1	0.3
263	10/19	56 22.73	163	40.34	82	4	0	0	1	3	0.8
264	10/18	56 22.75	163	31.34	82	4	0	0	1	4	1.0
265	10/18	56 22.25	163	22.39	82	4	0	0	2	3	0.8
266	10/18	56 22.73	163	13.45	81	4	0	0	0	11	2.7
267	10/09	56 22.50	163	4.46	81	4	0	0	5	24	6.0
268	10/09	56 22.50	162	55.56	79	4	0	1	0	3	0.8
269	10/09	56 22.50	162	46.53	75	4	0	0	1	1	0.3
270	10/06	56 22.50	162	37.59	77	4	0	0	3	13	3.2
271	10/06	56 22.50	162	28.64	77	4	0	1	3	13	3.2
272	10/06	56 22.52	162	19.85	68	4	60	225	131	36	9.0
273	10/03	56 22.50	162	10.72	84	4	120	1	16	16	4.0
274	10/03	56 22.50	162	1.77	81	4	14	3	11	5	1.2
275	10/03	56 22.50	161	52.72	90	4	5	0	1	1	0.3
276	10/02	56 22.50	161	43.88	79	4	5	0	4	1	0.3
277	10/02	56 22.50	161	34.90	66	4	221	0	0	0	0.0
278	10/02	56 22.50	161	26.19	68	4	323	0	0	0	0.0
TOTAL					647		3,658	7,215	7,555	6,424	9.9

Appendix B. Summary of red king crab fishing and catch data from 26 cost recovery pots in the 1994 Bristol Bay test fishery.

Pot #	Date	North Latitude		West Longitude		Depth (m)	Females	Catch Per Pot (CPUE)		
								Males		Legal No.
								Sublegal <120mm	≥120	
680	10/13	56	44.90	163	29.98	71	0	1	11	22
696	10/13	56	44.95	163	25.12	71	0	4	27	22
699	10/13	56	39.81	162	5.46	75	26	51	59	45
704	10/13	56	39.27	162	6.28	73	20	51	55	56
712	10/13	56	40.13	162	7.82	71	31	89	60	36
719	10/13	56	40.95	162	9.22	68	2	30	59	44
725	10/13	56	41.74	162	10.60	70	2	36	48	29
727	10/13	56	41.75	162	11.60	70	1	40	31	45
738	10/13	56	40.88	162	14.23	68	12	71	35	31
744	10/13	56	40.34	162	13.03	66	10	46	60	19
780	10/20	56	42.93	163	47.20	66	0	10	49	49
790	10/20	56	44.83	163	27.27	71	0	6	52	31
795	10/20	56	44.84	163	25.61	71	0	0	35	32
798	10/20	56	44.79	163	24.72	71	0	0	34	45
803	10/20	56	44.81	163	23.20	71	0	5	30	34
805	10/20	56	44.83	163	22.65	71	0	4	53	57
814	10/21	56	47.79	163	22.04	70	0	5	13	26
818	10/21	56	48.15	163	21.43	70	0	2	35	30
826	10/21	56	48.56	163	22.21	70	0	4	23	41
832	10/21	56	48.04	163	22.92	70	0	3	25	32
836	10/21	56	47.70	163	23.38	70	0	4	24	37
838	10/21	56	47.50	163	23.64	70	0	3	37	37
840	10/21	56	47.33	163	23.90	70	0	3	27	31
842	10/21	56	47.13	163	24.18	70	0	2	21	34
858	10/21	56	48.04	163	26.81	70	0	10	39	25
861	10/21	56	48.54	163	26.85	70	0	18	48	33
Total							104	498	990	923

Appendix C. Percent maturity by length class of new-shell, female red king crabs caught in survey pots during the 1994 Bristol Bay test fishery charter.

Carapace Length (mm)	Without Embryos	With Embryos	Total	Percent Mature
62	1	0	1	0.0
63	2	0	0	0.0
64	3	0	3	0.0
65	2	0	2	0.0
66	5	0	5	0.0
67	3	0	3	0.0
68	3	0	3	0.0
69	13	0	13	0.0
70	5	0	5	0.0
71	11	0	11	0.0
72	14	0	14	0.0
73	17	0	17	0.0
74	15	0	15	0.0
75	33	0	33	0.0
76	20	0	20	0.0
77	39	0	39	0.0
78	34	0	34	0.0
79	37	0	37	0.0
80	52	0	52	0.0
81	44	2	46	4.3
82	69	0	69	0.0
83	80	0	80	0.0
84	83	0	83	0.0
85	101	1	102	1.0
86	72	0	72	0.0
87	100	2	102	2.0
88	75	1	76	1.3
89	81	7	88	8.0
90	73	10	83	12.0
91	58	4	62	6.5
92	43	7	50	14.0
93	43	10	53	18.9
94	17	10	27	37.0
95	13	8	21	38.1
96	15	14	29	48.3
97	5	19	24	79.2
98	5	12	17	70.6
99	4	15	19	78.9
100	0	32	32	100.0
101	4	20	24	83.3
102	1	27	28	96.4
103	1	35	36	97.2
104	0	47	47	100.0
105	1	47	48	97.9
106	2	39	41	95.1
107	0	30	30	100.0
108	0	53	53	100.0
109	0	60	60	100.0
110	0	51	51	100.0

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Appendix C. (page 2 of 2)

Carapace Length (mm)	Without Embryos	With Embryos	Total	Percent Mature
111	0	40	40	100.0
112	0	56	56	100.0
113	0	56	56	100.0
114	0	49	49	100.0
115	0	48	48	100.0
116	0	49	49	100.0
117	0	31	31	100.0
118	0	37	37	100.0
119	0	29	29	100.0
120	0	22	22	100.0
121	0	21	21	100.0
122	0	25	25	100.0
123	0	21	21	100.0
124	0	22	22	100.0
125	0	16	16	100.0
126	0	10	10	100.0
127	0	17	17	100.0
128	0	10	10	100.0
129	0	19	19	100.0
130	0	12	12	100.0
131	0	7	7	100.0
132	0	10	10	100.0
133	0	7	7	100.0
134	0	12	12	100.0
135	0	13	13	100.0
136	0	8	8	100.0
137	0	5	5	100.0
138	0	9	9	100.0
139	0	6	6	100.0
140	0	4	4	100.0
141	0	4	4	100.0
142	0	6	6	100.0
143	0	5	5	100.0
144	0	2	2	100.0
145	0	2	2	100.0
146	0	1	1	100.0
147	0	1	1	100.0
152	0	2	2	100.0
Totals	1,299	1,257	2,556	49.1

Appendix D. Percent maturity by length class of new-shell, female red king crabs caught in random pot samples during the 1994 Bristol Bay test fishery charter.

Carapace Length (mm)	Without Embryos	With Embryos	Total	Percent Mature
72	2	0	2	0
73	0	0	0	0
74	1	0	1	0
75	3	0	3	0
76	1	0	1	0
77	3	0	3	0
78	5	0	5	0
79	4	0	4	0
80	4	0	4	0
81	2	0	2	0
82	4	0	4	0
83	8	0	8	0
84	7	0	7	0
85	7	0	7	0
86	9	0	9	0
87	7	0	7	0
88	6	0	6	0
89	4	0	4	0
90	3	0	3	0
91	3	0	0	0
92	8	0	0	0
93	5	0	5	0
94	1	0	1	0
95	0	0	0	0
96	1	0	1	0
108	0	1	1	100.0
111	0	1	1	100.0
117	0	1	1	100.0
124	0	1	1	100.0
129	0	1	1	100.0
TOTAL	98	5	103	4.8

Appendix E. Summary of Tanner crab fishing and catch data from 162 survey stations in the 1994 Bristol Bay test fishery.

Sta- tion	Date	North Lati- tude		West Longi- tude		Depth (m)	No. of Pots Sampled	Catch Per Station		
								Females	Male	
									Sublegal <138mm	Legal ≥138mm
101	10/15	57	2.28	163	59.31	66	4	0	25	25
102	10/15	5	2.74	163	50.21	66	4	0	13	9
103	10/15	7	2.28	163	41.02	64	4	4	27	29
104	10/14	57	2.69	163	31.93	64	4	10	38	22
105	10/14	57	2.26	163	22.80	64	4	3	39	50
106	10/14	57	2.77	163	13.75	60	4	2	22	33
107	10/10	57	2.50	163	4.57	60	4	0	11	10
108	10/10	57	2.50	162	55.50	59	4	2	19	14
109	10/10	57	2.52	162	46.29	59	4	9	11	10
110	10/11	57	2.50	162	38.15	59	4	1	5	14
111	10/11	57	2.50	162	29.02	59	4	2	14	15
112	10/11	57	2.50	162	19.88	59	4	1	14	16
113	10/12	57	2.50	162	10.80	55	4	0	6	12
114	10/12	57	2.50	162	1.76	57	4	2	11	24
115	10/12	57	2.50	161	52.49	53	4	1	8	18
116	09/30	57	2.50	161	42.43	64	4	0	4	38
117	09/30	57	2.50	161	33.32	64	4	4	9	16
118	09/30	57	2.50	161	24.20	68	4	10	13	42
121	10/15	56	57.25	163	58.76	68	4	5	15	54
122	10/15	56	57.72	163	49.75	68	4	0	16	47
123	10/15	56	57.27	163	40.68	66	4	33	26	40
124	10/14	56	57.75	163	31.64	66	4	2	39	48
125	10/14	56	57.27	163	22.60	66	4	2	23	29
126	10/14	56	57.72	163	13.55	62	4	5	14	16
127	10/10	56	57.50	163	5.47	62	4	1	17	5
128	10/10	56	57.50	162	56.43	60	4	0	6	51
129	10/10	56	57.50	162	47.42	60	4	2	19	8
130	10/11	56	57.50	162	37.40	62	4	6	16	11
131	10/11	56	57.50	162	28.38	64	4	4	21	35
132	10/11	56	57.50	162	19.31	64	4	9	23	22
133	10/12	56	57.50	162	10.29	62	4	4	5	15
134	10/12	56	57.50	162	1.25	51	4	0	6	28
135	10/12	56	57.50	161	52.27	68	4	5	5	26
136	09/30	56	57.50	161	44.00	64	4	0	7	22
137	09/30	56	57.50	161	35.00	66	4	57	14	29
138	09/30	56	57.50	161	25.97	73	4	1	9	80
141	10/15	56	52.27	163	58.77	70	4	4	20	41
142	10/15	56	52.75	163	49.75	70	4	3	43	77
143	10/15	56	52.24	163	40.68	68	4	5	27	46
144	10/14	56	52.75	163	31.63	68	4	0	39	61
145	10/14	56	52.25	163	22.60	68	4	7	30	32
146	10/14	56	52.75	163	13.55	68	4	9	24	52
147	10/10	56	52.50	163	4.51	64	4	11	10	21
148	10/10	56	52.52	162	55.50	62	4	1	10	16
149	10/10	56	52.50	162	46.50	64	4	5	24	31
150	10/11	56	52.50	162	38.34	64	4	3	34	58
151	10/11	56	52.50	162	29.34	62	4	20	14	17
152	10/11	56	52.50	162	20.22	62	4	19	19	27
153	10/12	56	52.50	162	11.21	66	4	2	16	22
154	10/12	56	52.50	162	2.19	73	4	3	19	56
155	10/12	56	52.49	161	53.18	71	4	1	12	23
156	09/30	56	52.50	161	43.15	64	4	3	7	76
157	09/30	56	52.50	161	34.10	75	4	19	23	62
158	09/30	56	52.50	161	25.10	75	4	3	9	37
161	10/17	56	47.74	163	58.77	71	4	2	10	54

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Appendix E. (page 2 of 3)

Sta- tion	Date	North Lati- tude		West Longi- tude		Depth (m)	No. of Pots Sampled	Catch Per Station		
								Females	Male	
									Sublegal <138mm	Legal ≥138mm
162	10/17	56	47.25	163	49.72	70	4	0	21	67
163	10/17	56	47.70	163	40.68	70	4	1	36	72
164	10/16	56	47.74	163	31.67	70	4	2	12	44
165	10/16	56	47.27	163	22.60	70	4	2	22	25
166	10/16	56	47.75	163	13.57	68	4	16	33	27
167	10/08	56	47.50	163	4.63	66	4	1	8	29
168	10/08	56	47.50	162	55.47	66	4	0	6	31
169	10/08	56	47.50	162	46.43	64	4	2	19	28
170	10/07	56	47.50	162	37.36	66	4	13	13	26
171	10/07	56	47.50	162	28.36	70	4	5	10	24
172	10/07	56	47.50	162	19.34	70	4	5	6	16
173	10/04	56	47.50	162	10.21	68	4	1	11	26
174	10/04	56	47.52	162	1.18	71	4	0	8	44
175	10/04	56	47.52	161	52.18	70	4	42	15	23
176	10/01	56	47.50	161	44.00	81	4	5	4	47
177	10/01	56	47.50	161	34.94	77	4	25	12	29
178	10/01	56	47.50	161	26.00	73	4	5	12	40
181	10/17	56	42.74	163	58.77	71	4	15	15	51
182	10/17	56	42.36	163	49.72	71	4	2	23	79
183	10/17	56	42.75	163	40.70	71	4	4	16	35
184	10/16	56	42.72	163	31.64	71	4	6	13	51
185	10/16	56	42.27	163	22.62	71	4	1	26	73
186	10/16	56	42.68	163	13.59	71	4	2	22	79
187	10/08	56	42.50	163	5.50	71	4	0	10	41
188	10/08	56	42.50	162	56.51	68	4	1	35	24
189	10/08	56	42.50	162	47.42	70	4	1	174	50
190	10/07	56	42.50	162	38.38	70	4	8	12	19
191	10/07	56	42.50	162	29.30	73	4	6	6	16
192	10/07	56	42.50	162	20.29	68	4	5	11	18
193	10/04	56	42.50	162	11.21	71	4	0	4	32
194	10/04	56	42.50	162	2.23	71	4	21	12	42
195	10/04	56	42.50	161	53.15	79	4	1	37	265
196	10/01	56	42.49	161	43.18	71	4	49	8	30
197	10/01	56	42.50	161	34.13	81	4	35	6	14
198	10/01	56	42.50	161	25.07	79	4	6	2	28
201	10/17	56	37.74	163	58.79	75	4	7	26	37
202	10/17	56	37.24	163	49.72	75	4	11	52	56
203	10/17	56	37.65	163	40.68	75	4	13	40	71
204	10/16	56	37.74	163	31.63	75	4	9	37	50
205	10/16	56	37.34	163	22.59	75	4	29	16	45
206	10/16	56	37.72	163	13.56	75	4	2	10	73
207	10/08	56	37.50	163	4.55	73	4	1	15	56
208	10/08	56	37.50	162	55.56	73	4	0	1	20
209	10/08	56	37.49	162	46.46	73	4	1	4	28
210	10/07	56	37.50	162	37.40	75	4	0	5	23
211	10/07	56	37.50	162	28.65	70	3	1	5	36
212	10/07	56	37.50	162	19.31	71	4	3	9	25
213	10/04	56	37.50	162	11.26	75	4	1	12	85
214	10/04	56	37.50	162	1.24	77	4	15	28	94
215	10/04	56	37.50	161	52.15	70	4	63	5	27
216	10/01	56	37.47	161	44.20	82	4	51	11	14
217	10/01	56	37.50	161	35.00	84	4	24	9	50
218	10/01	56	37.50	161	25.93	66	4	0	0	7
221	10/19	56	32.70	163	58.75	77	4	50	42	12
222	10/19	56	32.25	163	49.75	79	4	39	49	68
223	10/19	56	32.74	163	40.68	77	4	45	25	20

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Appendix E. (page 3 of 3)

Sta- tion	Date	North Lati- tude		West Longi- tude		Depth (m)	No. of Pots Sampled	Catch Per Station		
								Male		
								Females	Sublegal <138mm	Legal ≥138mm
224	10/18	56	32.70	163	31.64	79	4	17	91	103
225	10/18	56	32.25	163	22.60	79	4	50	16	26
226	10/18	56	32.70	163	13.56	79	4	48	22	14
227	10/09	56	32.50	163	4.51	79	4	0	14	78
228	10/09	56	32.50	162	55.47	77	4	0	6	38
229	10/09	56	32.49	162	46.44	75	4	0	12	71
230	10/06	56	32.50	162	37.34	73	4	1	4	19
231	10/06	56	32.49	162	28.36	73	4	0	1	6
232	10/06	56	32.52	162	19.32	75	4	2	5	20
233	10/03	56	32.50	162	10.29	75	4	3	27	88
234	10/03	56	32.50	162	1.24	66	4	1	4	23
235	10/03	56	32.50	161	52.18	79	4	60	20	35
236	10/02	56	32.50	161	43.06	92	4	83	23	26
237	10/02	56	32.50	161	34.11	75	4	1	6	46
238	10/02	56	32.50	161	25.10	68	4	1	7	27
241	10/19	56	27.76	163	58.25	81	4	6	62	47
242	10/19	56	27.23	163	49.27	81	4	101	52	27
243	10/19	56	27.73	163	40.33	81	4	24	67	59
244	10/18	56	27.70	163	31.38	81	4	50	49	35
245	10/18	56	27.25	163	22.39	81	4	26	42	62
246	10/18	56	27.73	163	13.45	81	4	93	24	24
247	10/09	56	27.50	163	5.36	81	4	15	12	21
248	10/09	56	27.51	162	56.58	79	4	1	11	42
249	10/09	56	27.50	162	47.48	77	4	0	3	25
250	10/06	56	27.50	162	38.54	71	4	0	5	7
251	10/06	56	27.50	162	29.60	73	4	0	10	17
252	10/06	56	27.51	162	20.63	71	4	0	6	12
253	10/03	56	27.50	162	11.63	75	4	2	8	36
254	10/03	56	27.50	162	2.73	79	4	0	10	38
255	10/03	56	27.50	161	53.81	81	4	18	15	37
256	10/02	56	27.50	161	44.82	88	4	57	29	65
257	10/02	56	27.48	161	35.72	62	4	0	4	13
258	10/02	56	27.50	161	26.86	64	4	0	2	17
261	10/19	56	22.75	163	58.22	82	4	46	19	22
262	10/19	56	22.29	163	49.26	82	4	41	38	20
263	10/19	56	22.73	163	40.34	82	4	0	32	59
264	10/18	56	22.75	163	31.34	82	4	39	14	17
265	10/18	56	22.25	163	22.39	82	4	22	25	40
266	10/18	56	22.73	163	13.45	81	4	43	24	35
267	10/09	56	22.50	163	4.46	81	4	24	9	14
268	10/09	56	22.50	162	55.56	79	4	22	16	15
269	10/09	56	22.50	162	46.53	75	4	1	1	19
270	10/06	56	22.50	162	37.59	77	4	0	5	9
271	10/06	56	22.50	162	28.64	77	4	2	5	3
272	10/06	56	22.52	162	19.85	68	4	0	1	3
273	10/03	56	22.50	162	10.72	84	4	24	18	15
274	10/03	56	22.50	162	1.77	81	4	29	35	110
275	10/03	56	22.50	161	52.72	90	4	193	56	65
276	10/02	56	22.50	161	43.88	79	4	1	7	46
277	10/02	56	22.50	161	34.90	66	4	0	5	14
278	10/02	56	22.50	161	26.19	68	4	34	50	17
TOTAL								2,140	3,070	5,941

Appendix F. Summary of Tanner Crab fishing and catch data from 26 cost recovery pots in the 1994 Bristol Bay test fishery.

Pot #	Date	North Latitude		West Longitude		Depth (m)	Females	Catch Per Pot (CPUE)		
								Males		
								<u>Sublegal</u>	<u>Legal</u>	
								<138mm	≥138mm	
680	10/13	56	44.90	163	29.98	71	0	23	39	
696	10/13	56	44.95	163	25.12	71	1	6	25	
699	10/13	56	39.81	162	5.46	75	0	3	24	
704	10/13	56	39.27	162	6.28	73	1	2	34	
712	10/13	56	40.13	162	7.82	71	1	5	18	
719	10/13	56	40.95	162	9.22	68	0	5	9	
725	10/13	56	41.74	162	10.60	70	0	3	14	
727	10/13	56	41.75	162	11.60	70	0	4	24	
738	10/13	56	40.88	162	14.23	68	1	3	6	
744	10/13	56	40.34	162	13.03	66	0	2	7	
780	10/20	56	42.93	163	47.20	66	0	1	2	
790	10/20	56	44.83	163	27.27	71	0	3	13	
795	10/20	56	44.84	163	25.61	71	0	1	5	
798	10/20	56	44.79	163	24.72	71	0	2	3	
803	10/20	56	44.81	163	23.20	71	0	3	18	
805	10/20	56	44.83	163	22.65	71	2	7	13	
814	10/21	56	47.79	163	22.04	70	4	10	16	
818	10/21	56	48.15	163	21.43	70	4	8	7	
826	10/21	56	48.56	163	22.21	70	0	8	11	
832	10/21	56	48.04	163	22.92	70	1	8	12	
836	10/21	56	47.70	163	23.38	70	1	5	7	
838	10/21	56	47.50	163	23.64	70	0	5	10	
840	10/21	56	47.33	163	23.90	70	1	6	10	
842	10/21	56	47.13	163	24.18	70	0	4	5	
858	10/21	56	48.04	163	26.81	70	0	21	34	
861	10/21	56	48.54	163	26.85	70	0	18	21	
TOTALS								17	166	387

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