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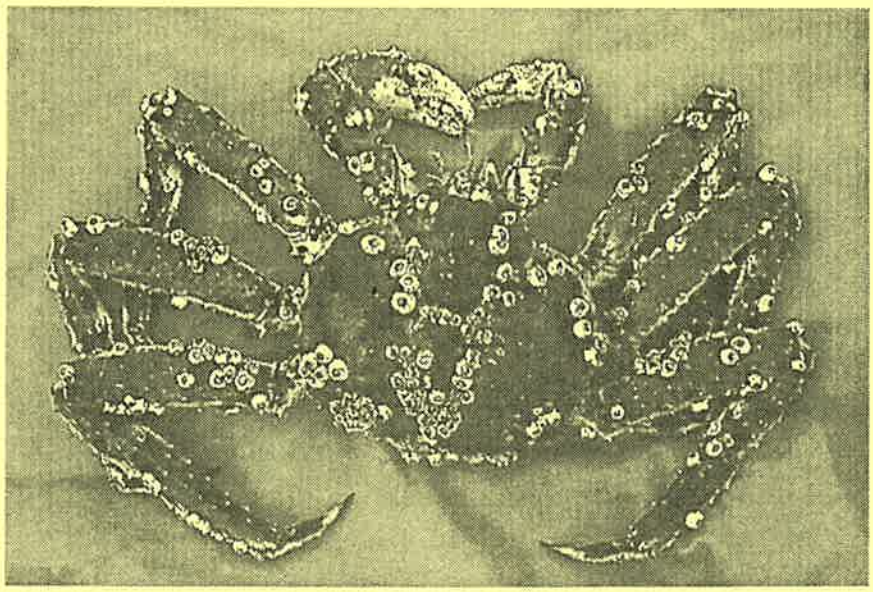
Report to Industry on the 1995 Eastern Bering Sea Crab Survey

January 1996



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Cover photo: Barnacles cover a very oldshell male red king crab (*Paralithodes camtschaticus*) from Bristol Bay.

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REPORT TO INDUSTRY ON THE 1995 EASTERN BERING SEA CRAB SURVEY

by
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RESULTS OF THE 1995 NMFS BERING SEA CRAB SURVEY
EXECUTIVE SUMMARY

This section summarizes data presented in the following pages of this report. Numbers presented are indices of population level and do not represent absolute abundance. For further information, contact Dr. Robert Otto, NMFS, P.O. Box 1638, Kodiak, AK 99615. Phone (907) 487-5961. GHL = Guideline Harvest Level.

Red king crab (*Paralithodes camtschaticus*) Bristol Bay.

Legal males:	6.3 million crabs; 15% increase.
Pre-recruits:	5.4 million crabs; 11% decrease.
Large Females:	8.0 million crabs: no change.
Outlook:	Total population index continues at low levels. Fertilized female abundance is believed to be at or below threshold.
GHL:	No fishery in 1995.

Red king crab (*P. camtschaticus*) Pribilofs District.

Legal males:	2.6 million crabs; 32% increase.
Pre-recruits:	0.7 million crabs; no change.
Large Females:	2.4 million crabs; no change.
Outlook:	Legal crab are concentrated at few stations, and index has low precision. Females and small males are poorly estimated.
GHL:	2.5 million lbs of red and blue king crabs (see below).

Pribilof Islands blue king crab (*P. platypus*) Pribilof District.

Legal males:	2.0 million crabs; 163% increase.
Pre-recruits:	1.2 million crabs; 127% increase.
Large Females:	4.0 million crabs; no change.
Outlook:	Population low and stable. Trends not easily detectable.
GHL:	Fishery combined with red king crab in 1995.

St. Matthew blue king crab (*P. platypus*) Northern District.

Legal males:	1.9 million crabs; 22% decrease.
Pre-recruits:	1.1 million crabs; 22% decrease.
Large Females:	Not well estimated.
Outlook:	Population average but declining slightly.
GHL:	2.4 million lbs.

Tanner crab (*Chionoecetes bairdi*) Eastern District.

Legal males:	10.0 million crabs; 35% decrease.
Pre-recruits:	32.4 million crabs; 16% decrease.
Large Females:	37.2 million crabs; 35% increase.
Outlook:	Population still declining, but may be leveling out.
GHL:	5.5 million lbs, between 163°W and 173°W.

Snow crab (*C. opilio*) All districts combined.

Large males:	68.8 million crabs; no change.
Small males:	479.1 million crabs; 88% increase.
Large Females:	2,409.4 million crabs; 44% increase.
Outlook:	Large crab have bottomed out. Strong recruitment of juveniles at northern limit of survey; some may enter fishery in 1997.
GHL:	50.7 million lbs (4" width).

Hair crab (*Erimacrus isenbeckii*)

Total males:	11.1 million crabs; 35% increase.
Large Females:	Not well estimated.
Outlook:	Population at medium to high and stable.
GHL:	1.8 million lbs, Pribilof District only.

THE 1995 EASTERN BERING SEA SURVEY

An annual trawl survey is conducted in the eastern Bering Sea to determine the distribution and abundance of crab and groundfish resources. This report summarizes survey results for commercially important crabs. It is intended to aid fishermen and processors in locating productive grounds and judging overall availability of various species. Survey-derived data are also used as part of the basis for management decisions. Results are presented for red king crab (*Paralithodes camtschaticus*), blue king crab (*P. platypus*), hair crab (*Erimacrus isenbeckii*), Tanner crab (*Chionoecetes bairdi*) and snow crab (*C. opilio*). Information on groundfish resources is available from the Alaska Fisheries Science Center, 7600 Sand Point Way NE, BIN C15700, Seattle, Washington 98115. In 1995, a special survey was conducted aboard the *F/V Columbia* to assess red king crabs. Data from that survey will be reported separately.

Survey Area and Methods

The 1995 eastern Bering Sea (EBS) crab survey consisted of 382 successful bottom trawl tows and covered an area of approximately 140,751 square nautical miles (nmi). This year's survey area (Fig. 1) was identical to that of 1993. The survey was conducted aboard two chartered vessels, the *F/V Aldebaran* and *F/V Arcturus*, between June 4 and July 24. The same vessels were used in 1993 and 1994. Methodology was identical to that of previous surveys; tows were made at the centers of squares defined by a 20x20 nmi grid. Near St. Matthew Island and the Pribilofs, additional tows were made at the corners of squares. Additional tows were also made at stations G21 and G22 to verify abundance of red king crab.

Both vessels fished an eastern otter trawl with an 83 ft headrope and a 112 ft footrope. This has been the standard trawl since 1982. Wingspread on this trawl ranges from 47-58 ft. For consistency with previous reports an effective width of 50 ft was assumed. Each tow was one-half hour in duration; average length was 1.54 nmi. Crabs were sorted by species and sex, and then a sample of crabs was measured (to the nearest millimeter) to provide a size-frequency distribution. Note that crab sizes are reported as carapace width (cw) for Tanner and snow crabs, and carapace length (cl) for all others. Procedures for estimating abundance were similar to previous years (Appendix A). Note that population estimates are indexes and are most precise for large crabs; however, they do not represent absolute abundance and are least precise for females and small crab due to vagaries in crab behavior and net performance.

Because of differences in the length of each tow, catches presented in accompanying charts and tables are standardized to the nearest whole number of crab caught per square nmi. Where more than one tow was made in a square (including corner tows), charts indicate average crab density for all tows. Tables 7-11 present data for all tows where each species was caught, without averaging. It is advisable to cross-reference charts and tables.

The following abbreviations are used in the text: (in) inches, (mm) millimeters, (fm) fathoms, (lbs) pounds, (°C) degrees Celsius, (cl) carapace length, and (cw) carapace width.

Distribution and Abundance of Crab Stocks

Bristol Bay Red King Crab (*P. camtschaticus*)

Legal-sized (≥ 6.5 in cw or 135 mm cl) male crabs were distributed evenly throughout central Bristol Bay (Chart 1 and Table 7). The abundance index of legal male red king crabs in the Bristol Bay District (south of 58°39'N and east of 168°W) was 6.3 million crabs (Table 1 and Fig. 2), which represents a

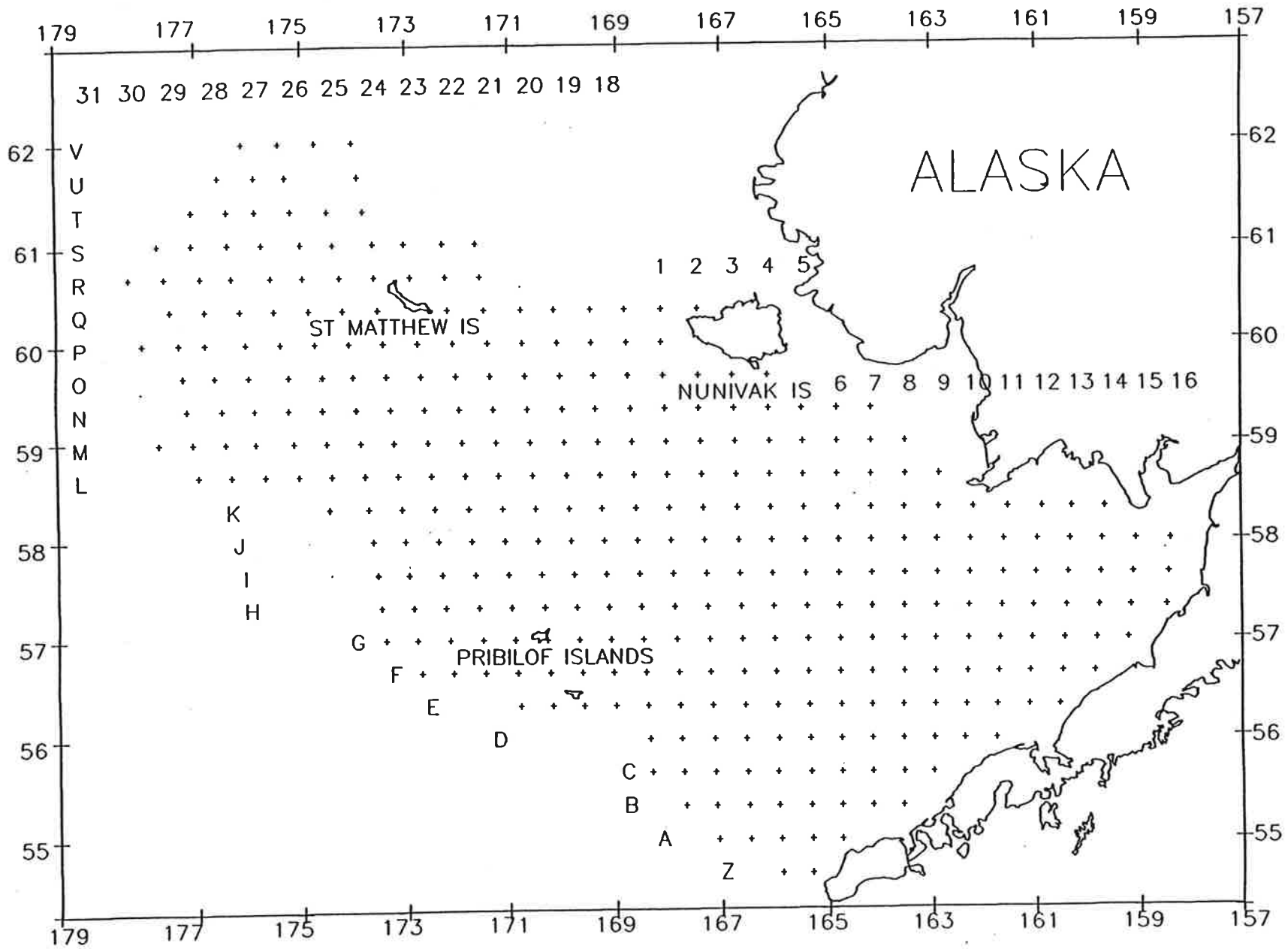


FIGURE 1. NMFS eastern Bering Sea crab survey area in 1995.

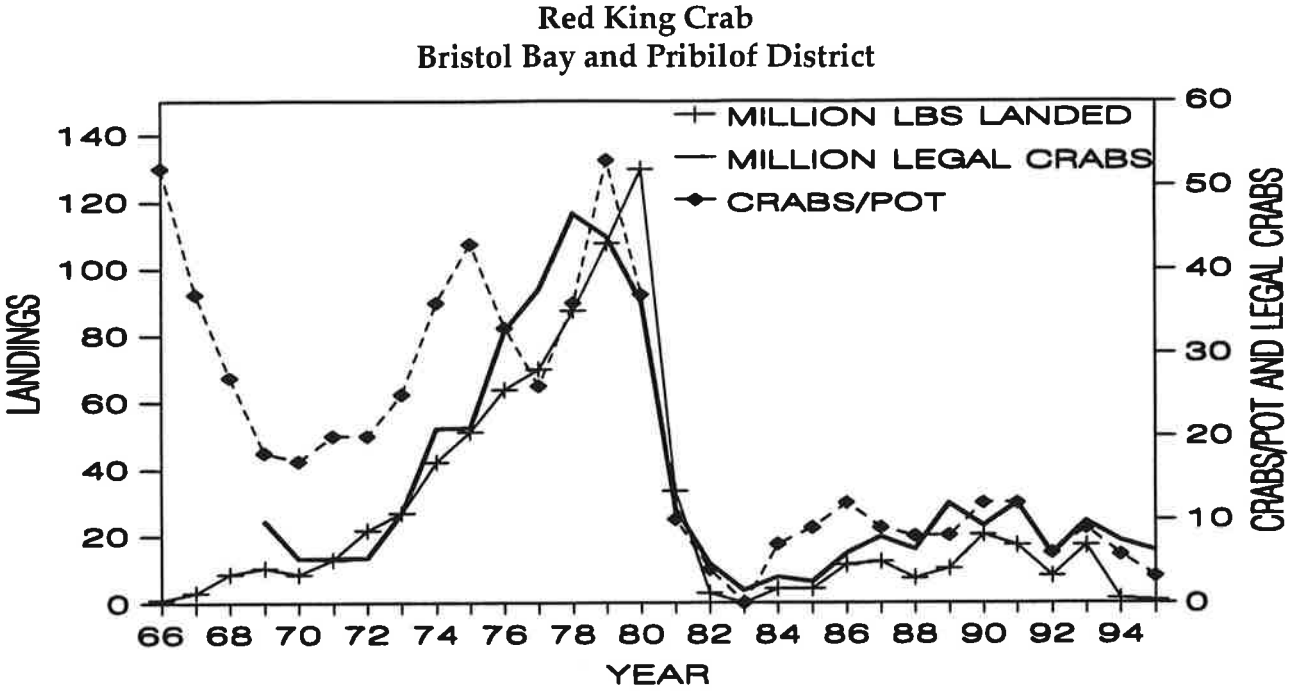


FIGURE 2. U.S. landings in millions of pounds, CPUE as crabs/per pot, and abundance of legal red king crab *(P. camtschaticus)* in millions in Bristol Bay and Pribilof District, estimated from NMFS trawl surveys (1994 and 1995 landings and CPUE from Pribilofs only).

15% in-crease from last year. This estimate is significantly below the 24-year average (13.4 million). Pre-recruit crab (110-134 mm cl) showed a decrease of 11%. Abundance of juveniles increased by 61%. A mode observed at a mean size of 55 mm cl in 1994 grew to a mean size of 75 mm in 1995 (Fig. 3). The abundance index for total males is still very low. Therefore the fishable stock will probably continue to decline in the future. Less than 1% of legal male crabs were in molting or soft-shell condition, and 41% were oldshell crabs (Appendix B).

The abundance index for large (≥ 90 mm cl) females in Bristol Bay was 8.0 million crabs, a minor change from last year, and the combined abundance of small and large females is still extremely low. In June, 16% of mature females were still molting or soft-shell, (vs. 23% last year). Among mature females, the proportion which had molted and extruded new, uneyed eggs was 45% compared with 75% last year. Fluctuations in the timing of molting, mating, and embryo extrusion may be related to annual variations in water temperature.

The Bristol Bay fishery did not open in 1994 or 1995 because the index of large females was below a threshold value of 8.4 million crabs (Appendix A). Landings in 1993 were 14.6 million lbs with a catch-per-unit-of-effort (CPUE) of 9 crabs/pot-lift (Fig. 2). (Annual Management Report for the Shellfish Fisheries of the Westward Region, 1993. ADF&G Regional Information Report No. 4K94-29 available from ADF&G, 211 Mission Road, Kodiak, AK 99615.)

Pribilof Islands Red King Crab (*P. camtschaticus*)

In the Pribilof District (south of 58°39'N and west of 168°W), the abundance index for legal male red king crab was 2.6 million crabs, an increase of 32% from last year's value. Most of these crabs were quite large; the mean length was 165 mm cl. The index for large females showed little change. Note that male crab were highly concentrated at one station (G21), which makes the index less reliable and results in poor confidence intervals.

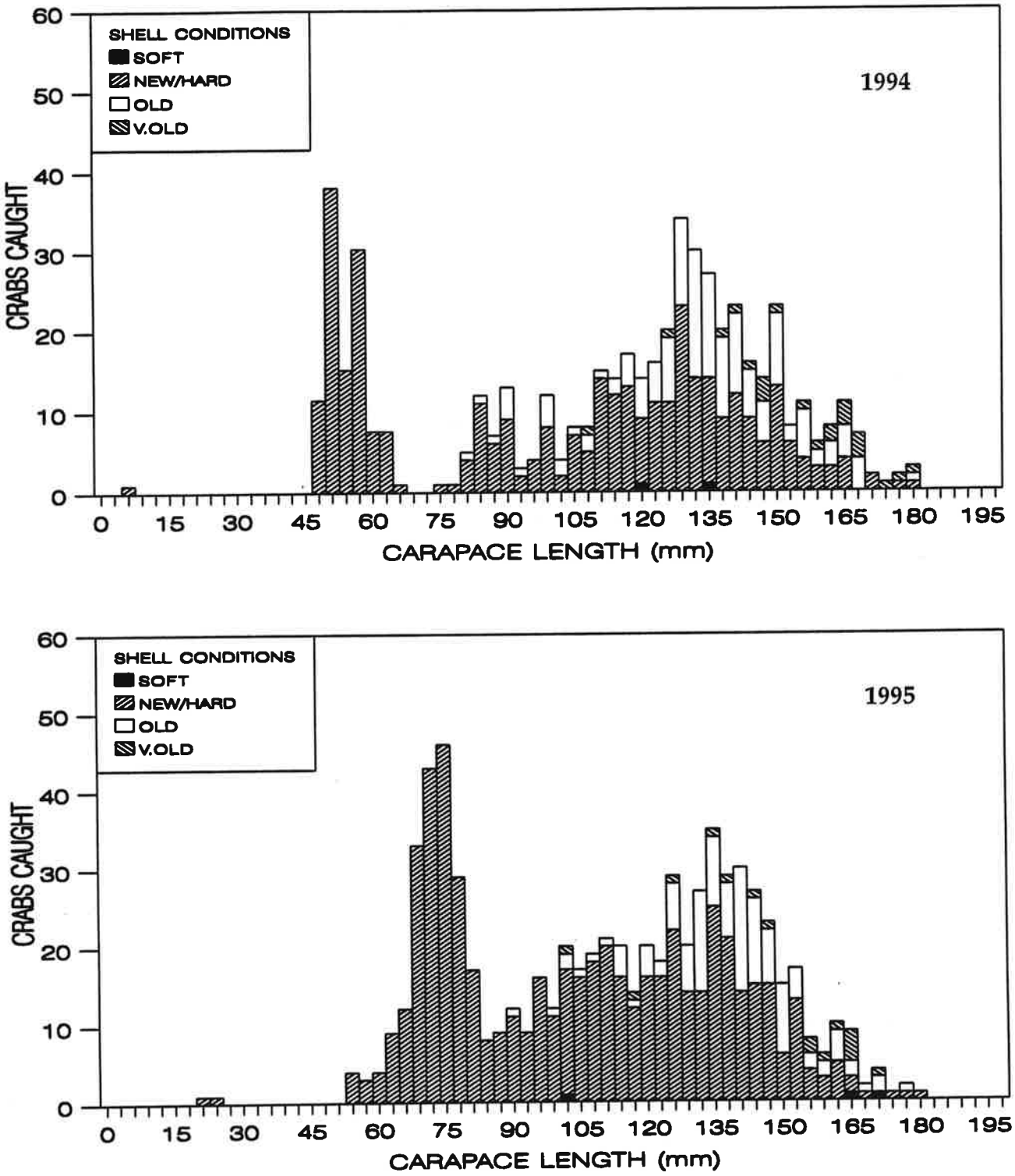


FIGURE 3. Size-frequency of male red king crab (*P. camtschaticus*), by 3 mm length classes, 1994-1995.

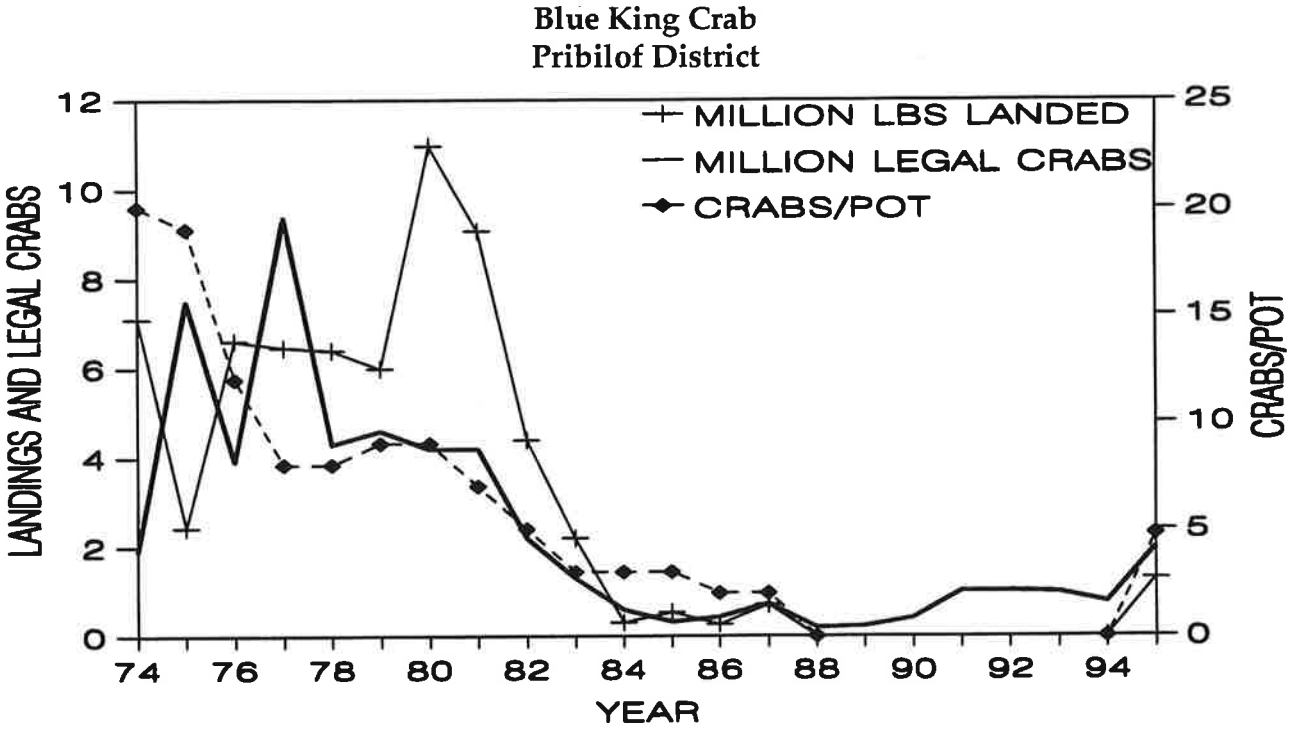


FIGURE 4. U.S. landings in millions of pounds, CPUE as crabs/pot, and abundance of legal blue king crab (*P. platypus*) in millions in the Pribilof District, estimated from NMFS trawl surveys.

Seven additional tows were made within 5 nmi of stations G21 and G22 in order to improve the reliability of the index. A combined fishery for red and blue king crab in the Pribilof District opened September 15 with a guideline harvest level (GHL) of 2.5 million lbs of both species. This year's landings were 0.9 million lbs with a CPUE of 3.2 crabs/pot-lift. (Skip Gish, Alaska Department of Fish & Game, Box 308, Dutch Harbor, AK, 99692, pers. commun., November 1995).

Pribilof Islands Blue King Crab (*P. platypus*)

Legal (≥ 6.5 in cw or 135 mm cl) males were found primarily north and east of St. Paul Island (Chart 2 and Table 8). The abundance index for legal males was 2.0 million crabs (Table 2 and Fig. 4), a 163% increase from last year, and is now near the 20-year average (2.28 million). The number of pre-recruits (110-134 mm cl) showed an increase of 127% and the abundance of juveniles (<110 mm cl), showed a 155% increase. Size-frequency data(Fig. 5) show increases in all sizes of crab. Shell conditions among legal males were 31% soft or molting, 11% new-hardshells, and 58% oldshells, indicating that crabs were still molting during the survey.

The abundance index for large (≥90 mm cl) females showed little change from last year. However, estimates of juvenile and female abundance are usually very imprecise due to the preference of such crab for rocky habitat which is not sampled well by trawls. Among mature females, 47% were new hardshells, of which 100% carried new eggs, and 44% were oldshells, of which 99% carried empty embryo cases indicating hatching had recently occurred. Blue king crab are predominantly biennial spawners. Only a portion of the female population spawns in a given year, while the remainder is in the non-embryo-bearing phase. About 9% of females were soft-shell, indicating that molting was not completed at the time of the survey.

This fishery was closed from 1987 through 1994 due to low stock abundance. In 1995, a combined fishery for red and blue king crabs was opened in the Pribilof District with a com-

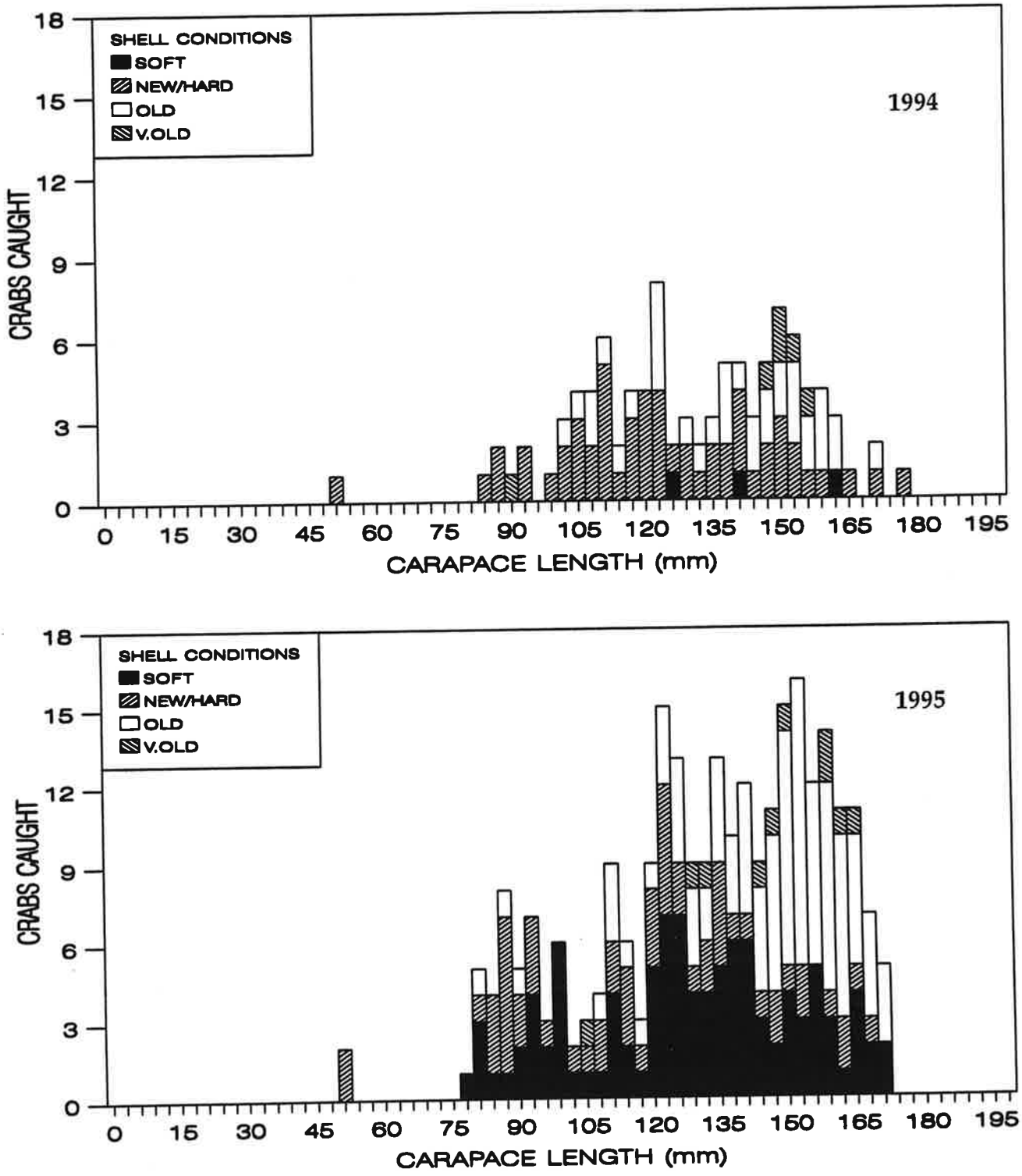


FIGURE 5. Size-frequency of Pribilof District male blue king crab (*P. platypus*), by 3 mm length classes, 1994-1995.

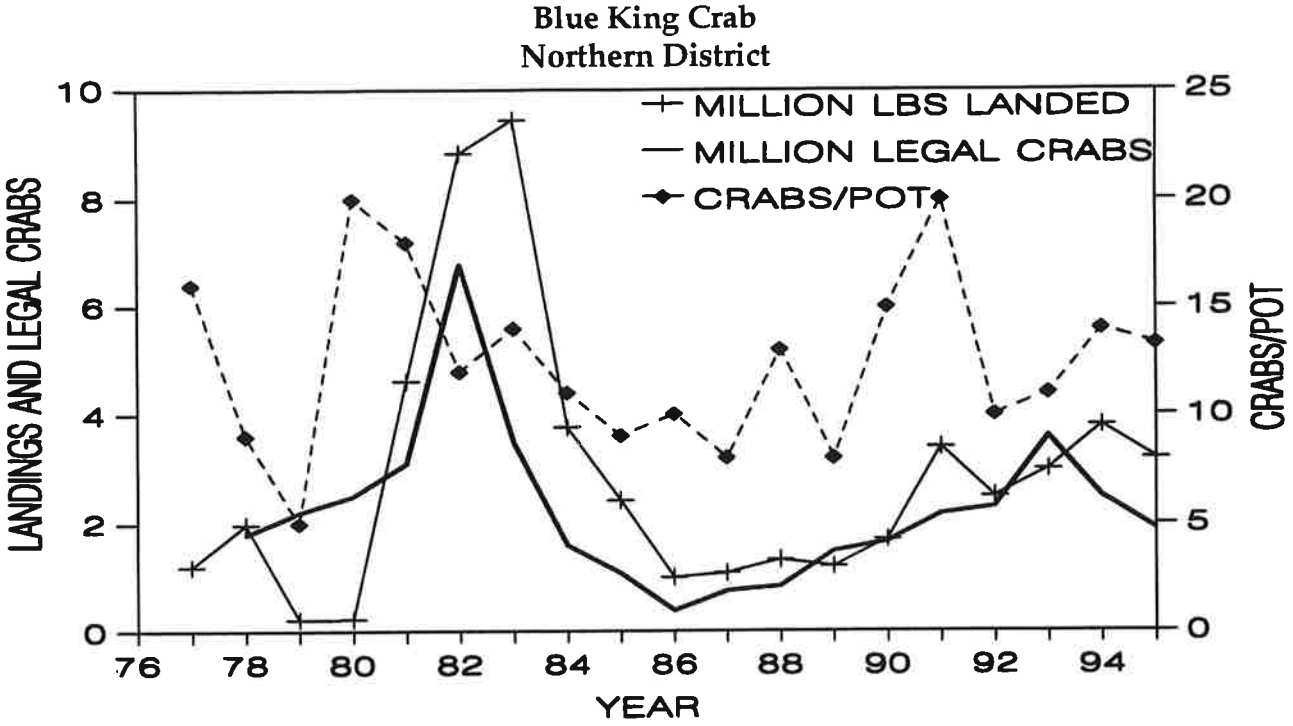


FIGURE 6. U.S. landings in millions of pounds, CPUE as crabs/pot, and the abundance of legal blue king crabs (*P. platypus*) in millions in the Northern District (St. Matthew Island), estimated from NMFS trawl surveys.

bined GHL of 2.5 million lbs. This year's landings were 1.3 million lbs, with a CPUE of 4.8 crabs/pot-lift. (Skip Gish, ADF&G).

St. Matthew Island Blue King Crab (*P. platypus*)

Legal (≥ 5.5 in cw or 120 mm cl) males were captured primarily southwest of St. Matthew Island (Chart 2 and Table 8). The abundance index for legal males was 1.93 million crabs (Table 3 and Fig. 6), representing a 22% decrease from last year. The abundance of pre-recruits (105-119 mm cl) showed a 22% decrease. Except for fewer legals, the distribution of size-frequencies (Fig. 7) shows little change over the past year.

The index of legal males is near the long-term average of 2.25 million. Among legal males, 3% were softshell, 75% were new-hardshells, and 22% oldshells, similar to last year. The index for large females (≥80 mm cl) was not determined due to habitat preference, as explained previously. Only three mature females were captured.

The 1995 fishery opened on September 15 with GHL of 2.4 million lbs, representing an exploitation rate of 31% of the legal male biomass index value (7.8 ± 2.7 million lbs). This year's landings were 3.2 million lbs with a CPUE of 13.3 crabs/pot-lift (Fig. 6). (Skip Gish, ADF&G).

Tanner Crab (*C. bairdi*)

The legal minimum size of 5.5 in cw (spine tip to spine tip) is equivalent to 138 mm cw measured between the spines (scientific measure). The data included in Table 4, however, define "large" crabs as males ≥135 mm, because this size has been used for a long-term index since 1976.

Legal males were widely distributed with regions of relatively high abundance in outer Bristol Bay (Chart 3 and Table 9). The abundance index for large (≥135 mm cw) male *C. bairdi* in the Eastern District (east of 173°W) is 13.3 million crabs (Table 4), of which 10.0 million are legal size (≥138 mm cw). About 37% of the legal crab were located east of 163°W, and virtually all the legal males occurred in the Eastern District. The abundance index for

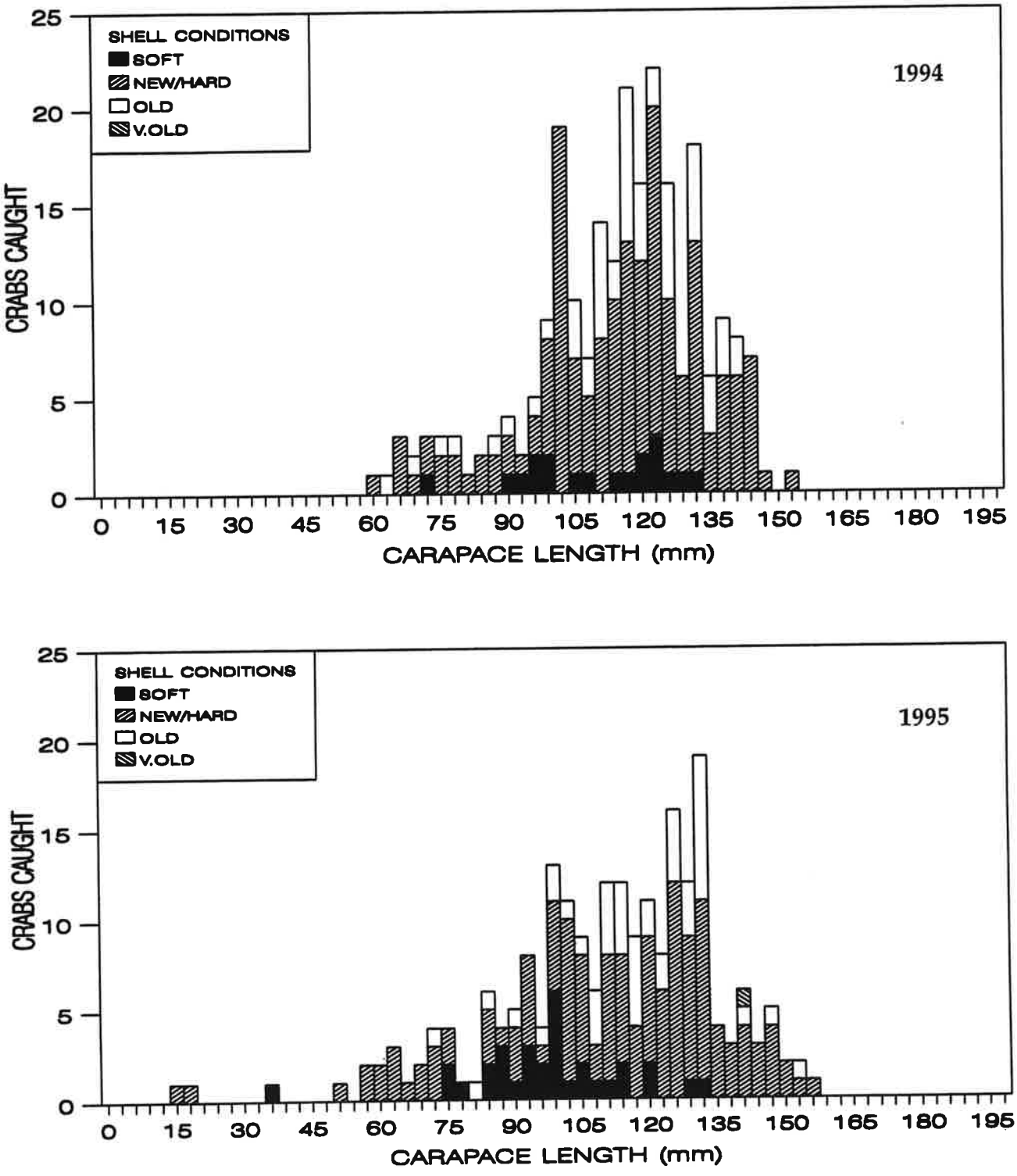


FIGURE 7. Size-frequency of Northern District (St. Matthew Island) male blue king crab (*P. platypus*), by 3 mm length classes, 1994-1995.

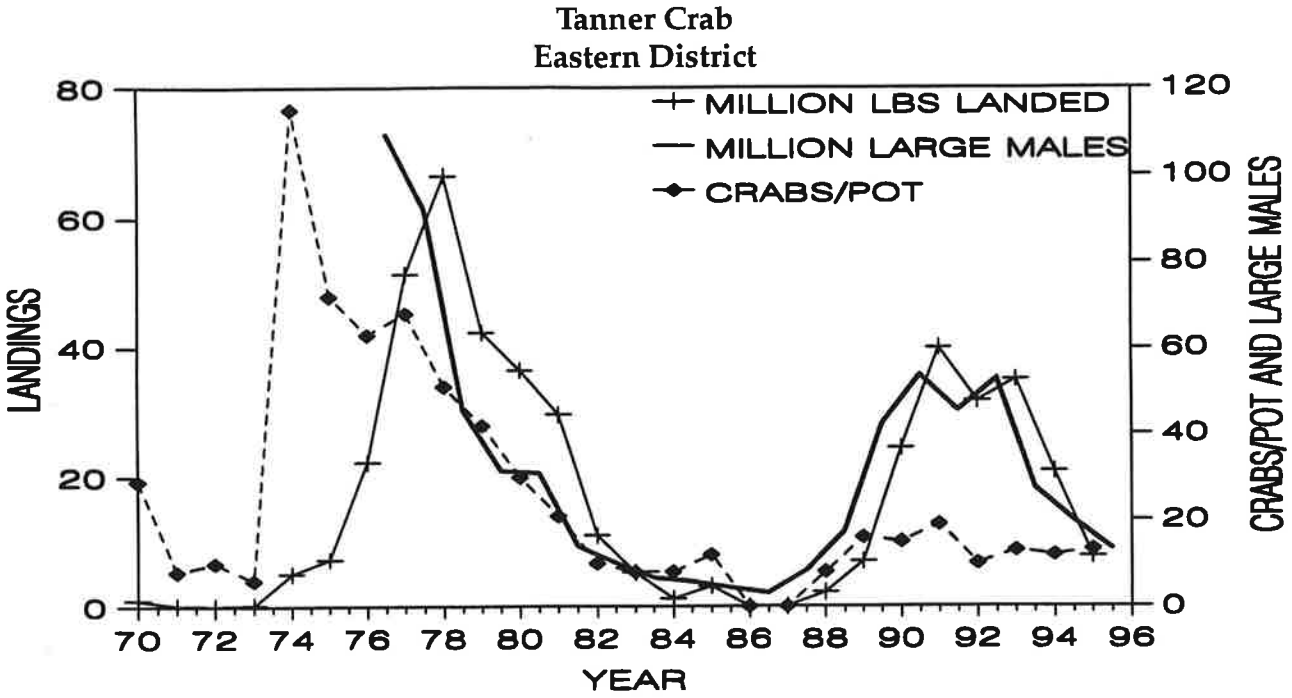


FIGURE 8. U.S. landings in millions of pounds, CPUE as crabs/pot, and the abundance of large male Tanner crab (*C. bairdi*) in millions in the Bristol Bay and Pribilof Districts (prior to 1989) or the Eastern District (since 1989), estimated from NMFS trawl surveys.

large crabs showed a decrease of 35% from last year (Fig. 8) and is well below the long-term average (32.8 million). The abundance index for pre-recruits (110-134 mm cw) showed a 16% decrease and the index for small males (<110 mm cw) showed a 16% decrease. A strong cohort of crabs which recruited to the fishery in 1988-1992 has declined due to natural mortality and fishery removals. Size-frequency data (Fig. 9) show that juveniles are continuing to recruit to this population but at lower levels than last year.

Lack of juveniles in the 45-90 mm cw range suggests that this population will continue to decline for several years. As this population ages, the proportion of oldshell crabs increases and that of newshell crabs decreases. Among legal males, 8% were molting or softshell, only 5% were new-hardshells, and 87% were oldshells. Abundance of legal males will probably continue to decline over the next few years.

The abundance index of large (≥85 mm cw) females (all districts) showed a 35% increase and the abundance of small (<85 mm) females also showed a 16% increase from last year. Among mature females, <1% were softshells; 5% were new-hardshells, of which 75% carried new eggs, and 95% were oldshells, of which 56% carried new eggs. The majority of the reproductive stock over the last three years has consisted of oldshell crabs which tend to produce more eggs than newshelled females. About 23% of mature females had not completed spawning by the time of the survey.

Due to closure of the Bristol Bay red king crab fishery, the Tanner crab fishery was only open in that region between 163°W and 173°W. The GHL for 1995 was set at 5.5 million lbs, for an exploitation rate of 24% of the legal male biomass index value (22.6 ± 10.8 million lbs). This year's landings were 4.2 million lbs with average CPUE of 7.9 crabs/pot-lift (Fig. 8). (Skip Gish, ADF&G).

Snow Crab *(C. opilio)*

Although the legal minimum size limit for *C. opilio* is 3.1 in cw (78 mm), processors currently prefer a minimum size of 4.0 in cw

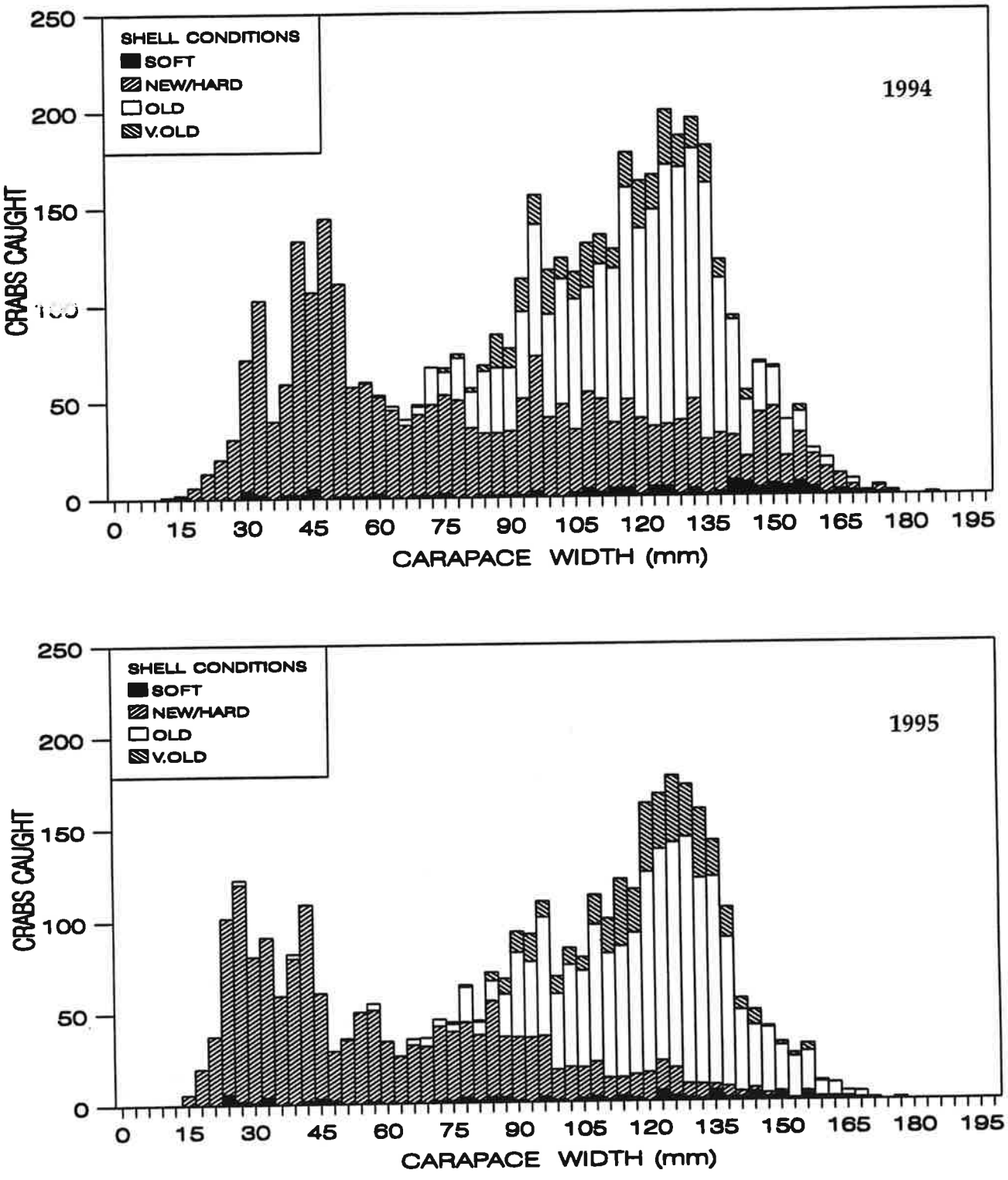


FIGURE 9. Size-frequency of male Tanner crab (*C. bairdi*) in the Bristol Bay and Pribilof Districts, by 3 mm width classes, 1994-1995.

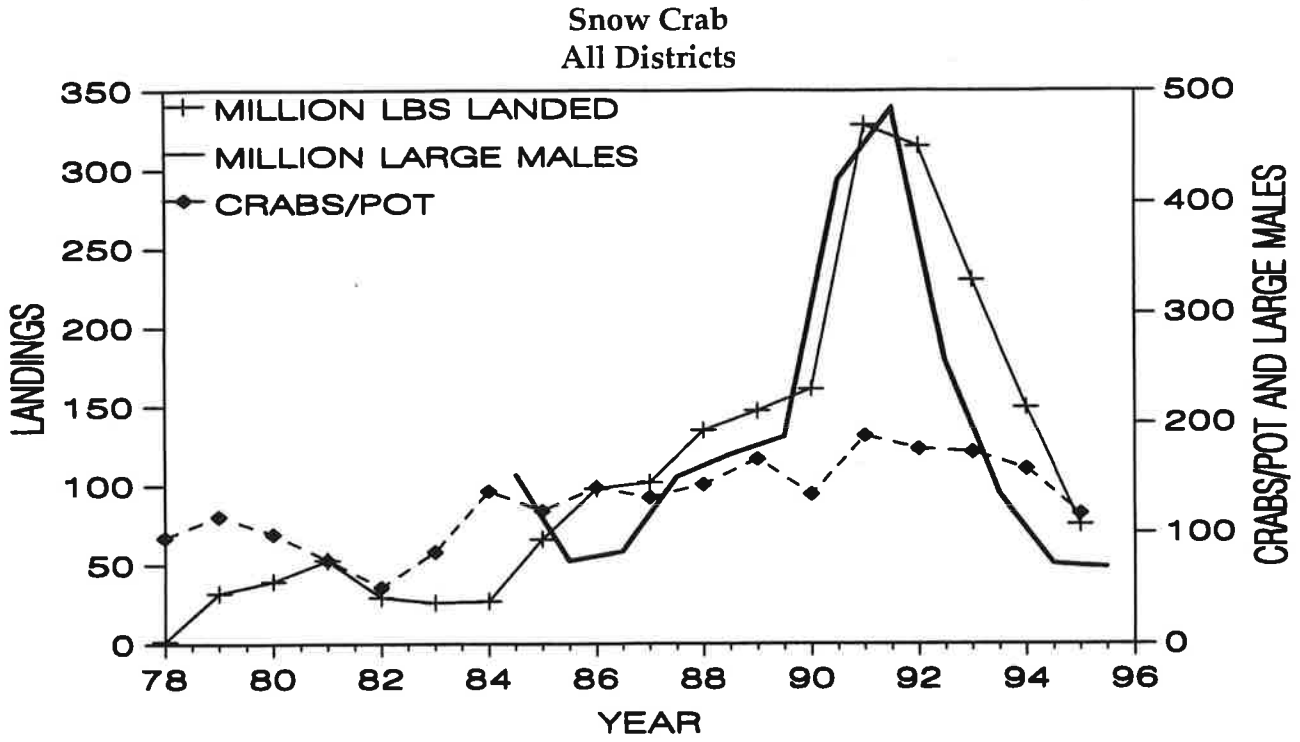


FIGURE 10. U.S. landings in millions of pounds, CPUE as crabs/pot, and the abundance of large male snow crab (*C. opilio*) in millions (all districts combined), estimated from NMFS trawl survey.

(102 mm). Therefore, the size ranges for male *C. opilio* used in this report are defined as follows: sublegal, <3.1 in cw (<78 mm); small, 3.1-3.9 in cw (78-101 mm); large, ≥4.0 in cw (≥102 mm); and very large ≥4.3 in cw (≥110 mm). Estimates of abundance of large males (≥4.0 in) are not shown prior to 1984 (Table 5 and Fig. 10) due to differences in area surveyed and minimum size landed.

The distribution of large males showed an area of high concentration extending northwest and eastward from the Pribilof Islands (Chart 4 and Table 10). The abundance index for large (≥102 mm cw) males (Eastern and Western Districts combined) is 68.8 million crabs (Table 5), a minor change from last year. Approximately 60% of these were in the Eastern District. Small males (78-101 mm cw) showed an 88% increase whereas sublegal males (<78mm cw) showed no significant change. The abundance index for large females (≥ 50 mm cw) showed a 44% increase.

The abundance of large males has been declining since 1991 due to natural mortality and fishery removals. However, good recruitment of postlarval crab has occurred in the last few years resulting in a peak of crabs in the 45-75 mm size range (Fig. 11), possibly the result of a strong year class hatched in the period 1988-1990. These crab are concentrated at the northern limit of the survey area. Whether they will migrate south and continue to grow is questionable. Some of these crabs are already recruiting to the large size category, offsetting losses due to mortality. Further growth should lead to an increase in the abundance of large males next year.

Among large male crabs, 7% were in molting or softshell condition, 61% were new-hardshells indicating a recent molt, and 32% were oldshells. Among mature females, 52% were new-hardshells, of which 99% carried new eggs, and 47% were oldshells, of which 92% carried new eggs. These numbers reflect the maturation of younger, newshelled craband indicate that hatching and extrustion were nearly completed by the time of the survey.

The GHL for 1996 has been set at 50.7 million lbs for large crab (≥ 4.0 in cw). Currently

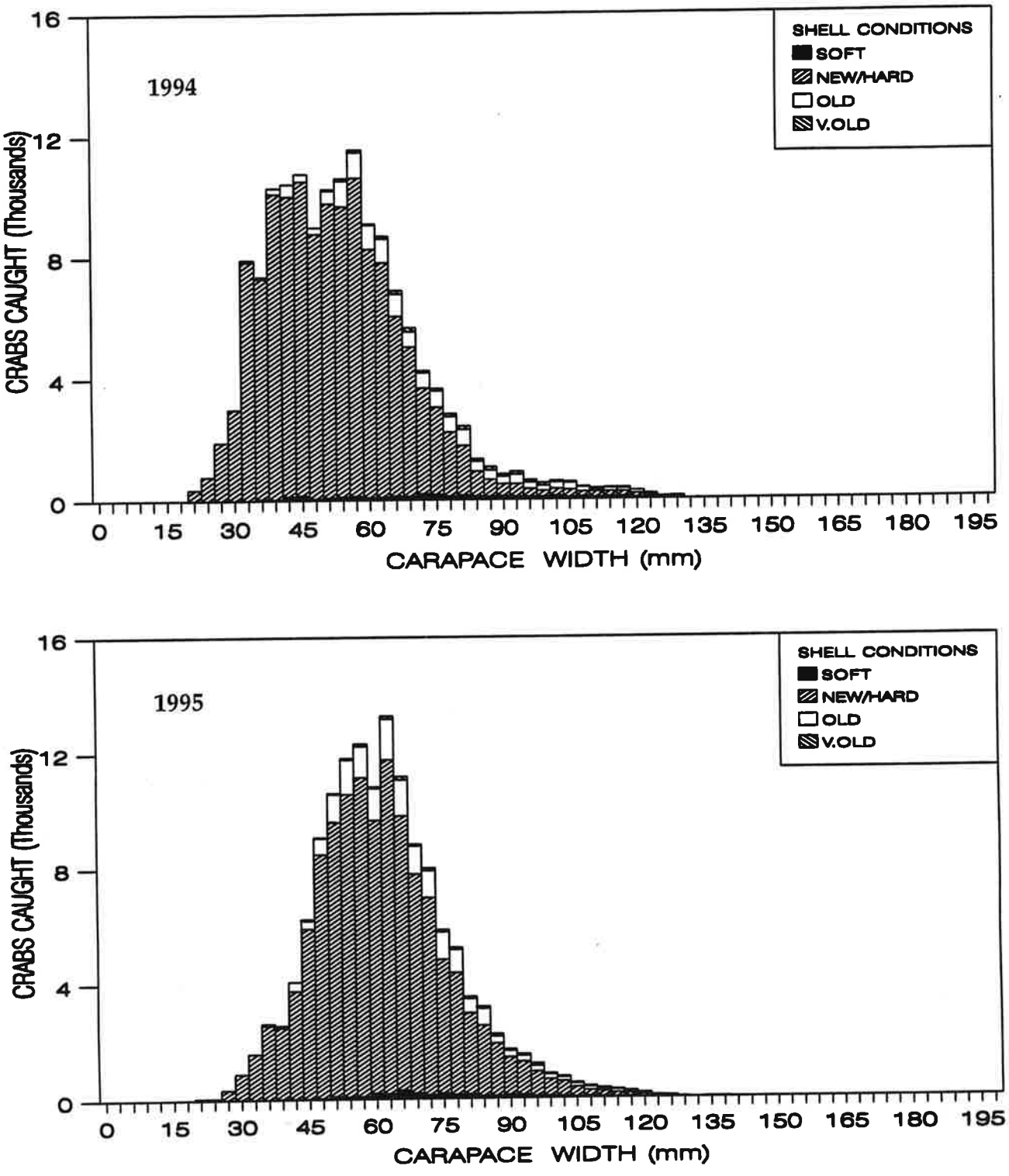


FIGURE 11. Size-frequency of male snow crab (*C. opilio*), all districts combined, by 3 mm width classes, 1994-1995.

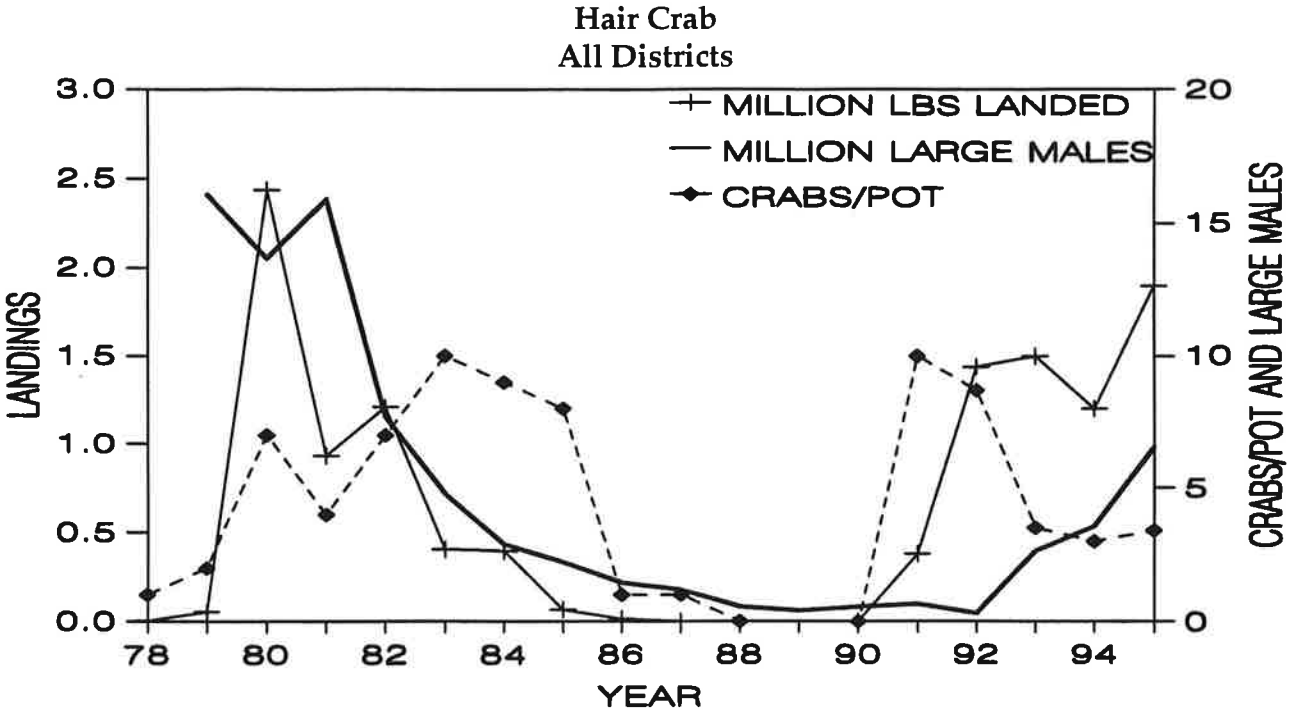


FIGURE 12. U.S. landings in millions of pounds, CPUE as crabs/pot, and the abundance of legal male hair crab *(E. isenbeckii)* in millions (all districts combined), estimated from NMFS trawl survey.

there are an estimated 87.5 (± 26.8) million lbs of large males within the survey area, of which about 58%, by weight, were east of 173°W. In 1995, landings were 75 million lbs with an average CPUE of 118 crabs/pot-lift (Fig. 10). (Skip Gish, ADF&G).

Hair Crab *(Erimacrus isenbeckii)*

Hair crab are widely scattered across the EBS (Chart 5 and Table 11). Historically, areas of concentration have existed just north of the Alaska Peninsula and near the Pribilof Islands. We have never found many female or small male crab during the survey and hence, have little understanding of their distribution. The abundance index for large male hair crabs declined from 1981-1992 and has been increasing since 1992 (Fig. 12). The current index of 11.1 million total males (Table 6) represents a 35% increase during the past year and is well above the long-term average (8.0 million). The abundance index of 6.54 million large (≥ 3.25 in cw) males is 84% higher than last year, and is now significantly above average. The abundance index of total females shows a decrease of 45% from last year, but is unreliable and based on capture of only 32 crabs. Size-frequency data (Fig. 13) indicate that the large cohort first seen in 1989-90 is maturing and recruitment of juveniles is decreasing. Changes in abundance indexes reflect the patchy distribution of hair crab and the inability of the survey to assess them accurately and consistently. The shell conditions for hair crab are difficult to determine and therefore provide little useful information. The majority of males (76%) and females (81%) were new-hardshell crabs.

The directed fishery for hair crab in the Pribilof Islands has no minimum legal size, so we have defined large crabs equivalent to the industry-preferred minimum size of 3.25 in cw. Currently there are an estimated 9.9 (± 5.9) million lbs of large male crab in the Pribilof District. A GHL of 1.8 million lbs hasbeen set for the Pribilof District, for an exploitation rate of 20%. Landings in 1995 were 1.89 million lbs., with CPUE of 3.4 crabs/pot-lift (Fig. 12). (Skip Gish, ADF&G).

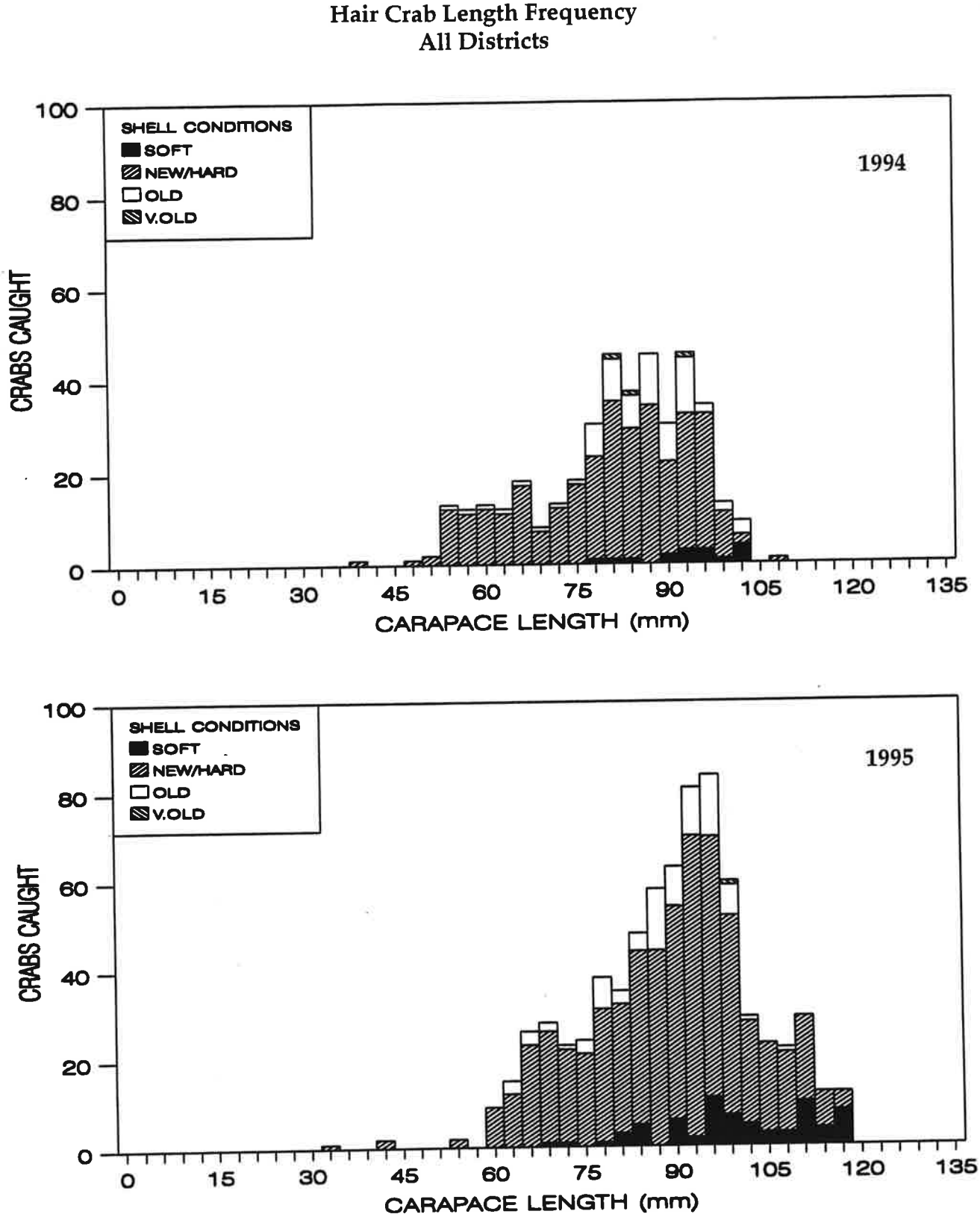


FIGURE 13. Size-frequency of male hair crab (*E. isenbeckii*), by 3 mm length classes, 1994-1995.

Bottom Temperatures

Due to equipment malfunctions, reliable data on bottom water temperatures were not obtained in 1995. From 1983 through 1993, average bottom water temperature at 36 stations along the Alaska Peninsula was 3.4°C.

Acknowledgements

Successful completion of the annual EBS crab and groundfish survey is crucially dependent on the skipper and crews of the participating vessels. We wish to extend a special thanks to Kenneth Disrude and Norman Bakken of the *F/V Aldebaran* and Glenn Sullivan and John Ploeger of the *F/V Arcturus* and their crews.

APPENDIX A

Methods of Estimating Crab Population Size

Population abundance indices are determined by the 'area-swept' method, using a stratified systematic sampling design. Distance traveled by the trawl was determined from positions recorded at the beginning and ending of the trawl. Area fished (= area swept by the trawl) was calculated by multiplying the distance by the effective width of the trawl, assumed to equal 50 ft.

All stations (grid squares) within a district or management area were used for estimating the abundance of each species. Stations where multiple (corner or repeat) tows were made were grouped into strata; these include a block of 12 stations southwest of St. Matthew Island, and 16 stations around St. Paul Island.

The catch-per-unit-effort (CPUE), was calculated for each station as number of crabs per square nautical mile. Average CPUE was calculated within each multiple tow block and each management district. Abundance indices were calculated by extrapolating the average CPUE of each size/sex group over the geographic area of each district. Variance and standard error (SE) of the index were calculated arithmetically. Confidence intervals were calculated by adding or subtracting 2 SEs to the population estimate. Note that, since the data are usually not normally distributed, variance estimates and confidence intervals are approximated. Nevertheless, they are provided in order to indicate the range of the data relative to previous years' estimates.

Threshold levels have been established for certain crab stocks by the Crab Plan Team of The North Pacific Fishery Management Council. In accordance with Alaska Board of Fisheries policy, and the Alaska Department of Fish and Game's Management Plan for Westward Region Crab stocks, such fisheries will be closed if the abundance index falls below the threshold level.

APPENDIX B

Crab Shell Condition

All crabs measured in the NMFS eastern Bering Sea trawl survey are coded as to shell condition. Shell condition categorizes exoskeleton discoloration, scratching and wear, and fouling by encrusting organisms, and can be used to estimate the time since a crab has last molted. The shell condition categories used in this report and the estimated times since last molting that they imply are given below:

Molting[1]: Crab will molt within days or is actively molting. Joints swollen and/or well developed second exoskeleton present.

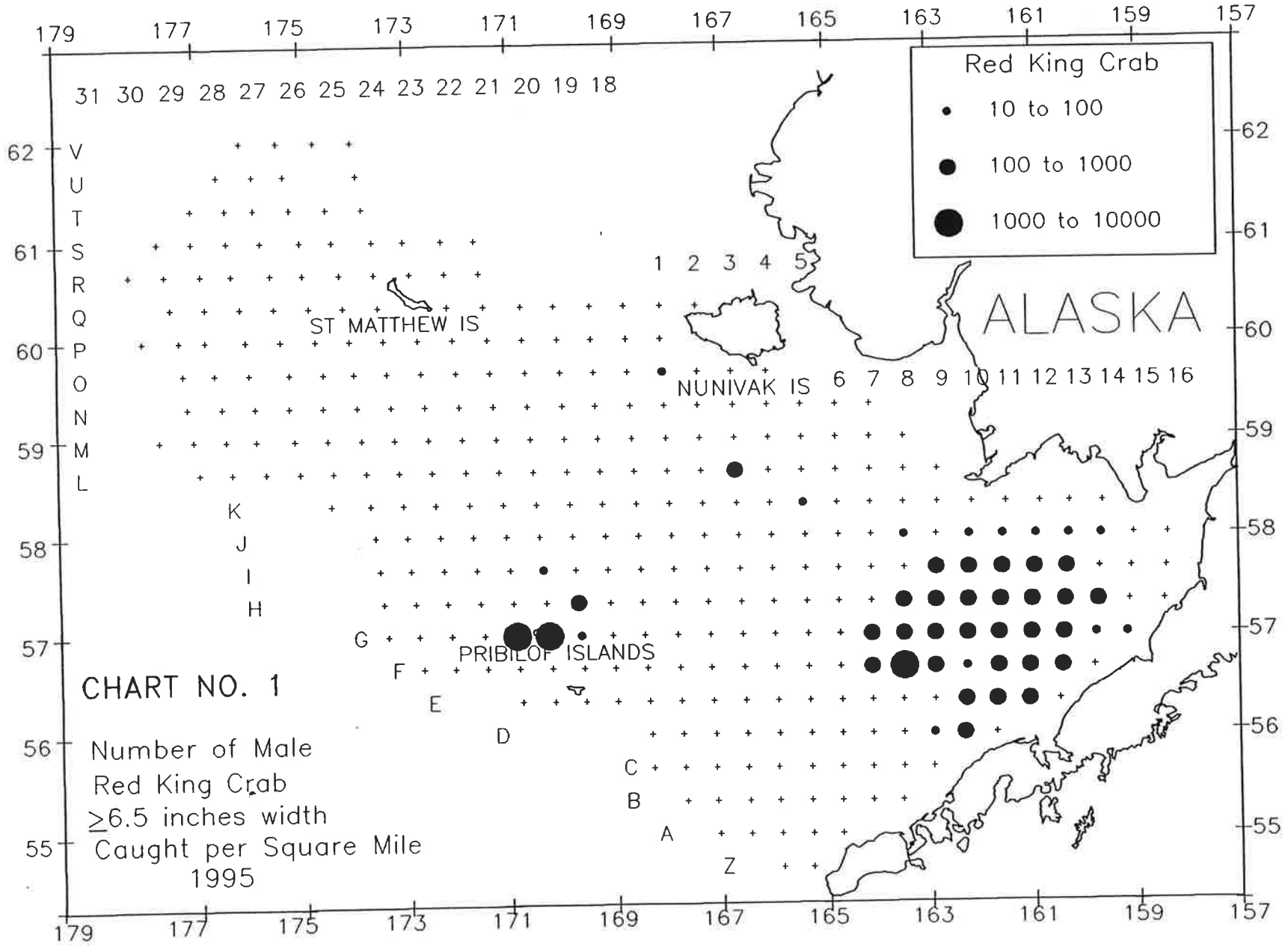
Softshell[1]: Crab has molted within weeks. Carapace is still soft and pliable from recent molt.

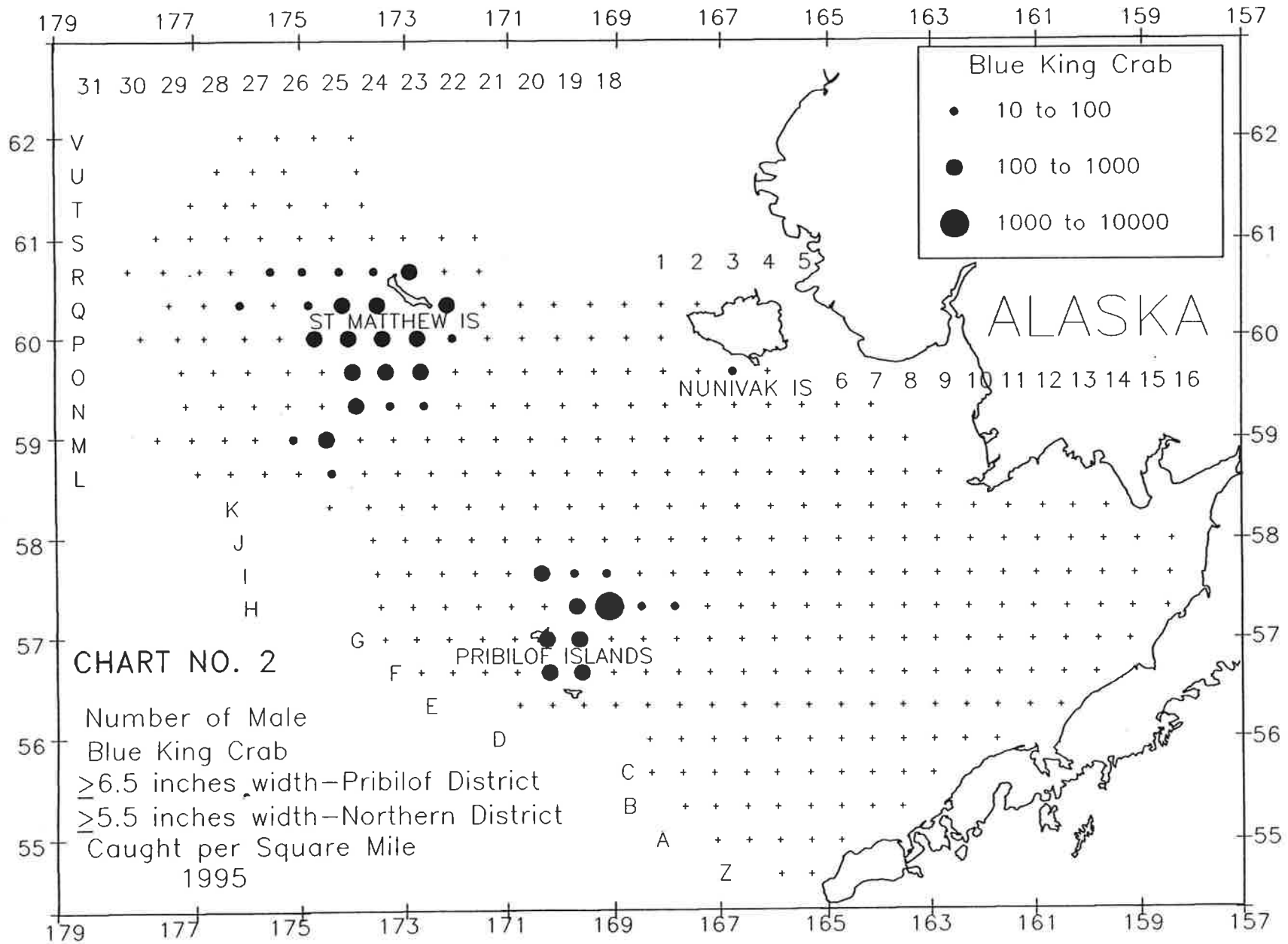
New, hardshell: Crab has molted within the last year. Carapace firm to hard and lacking scratches, wear, discoloration, and encrusting organisms.

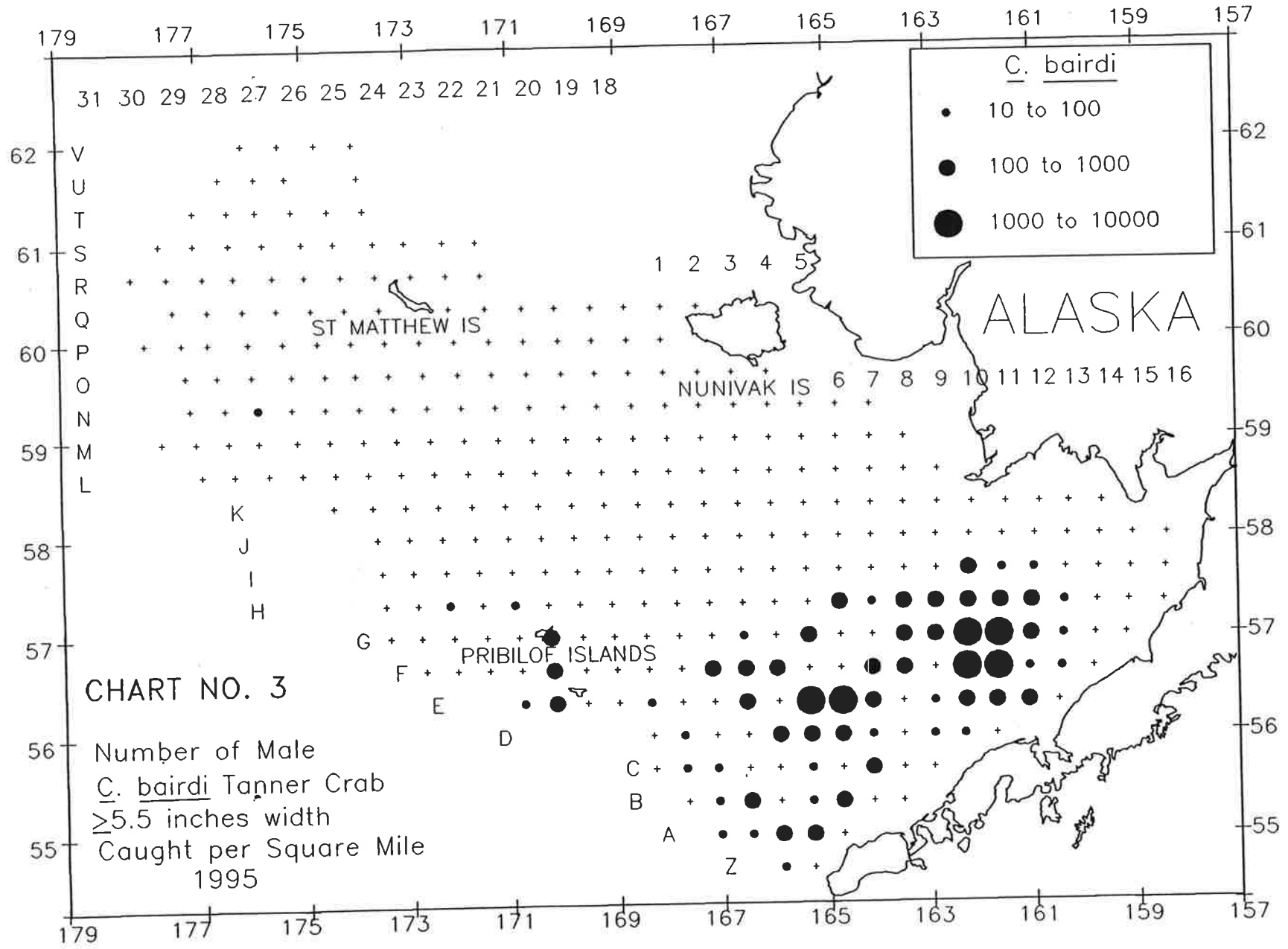
Oldshell: Crab has not molted within the last year. Usually has at least some scratching, spine wear. Crab may have darker coloration, and encrusting organisms are frequently present.

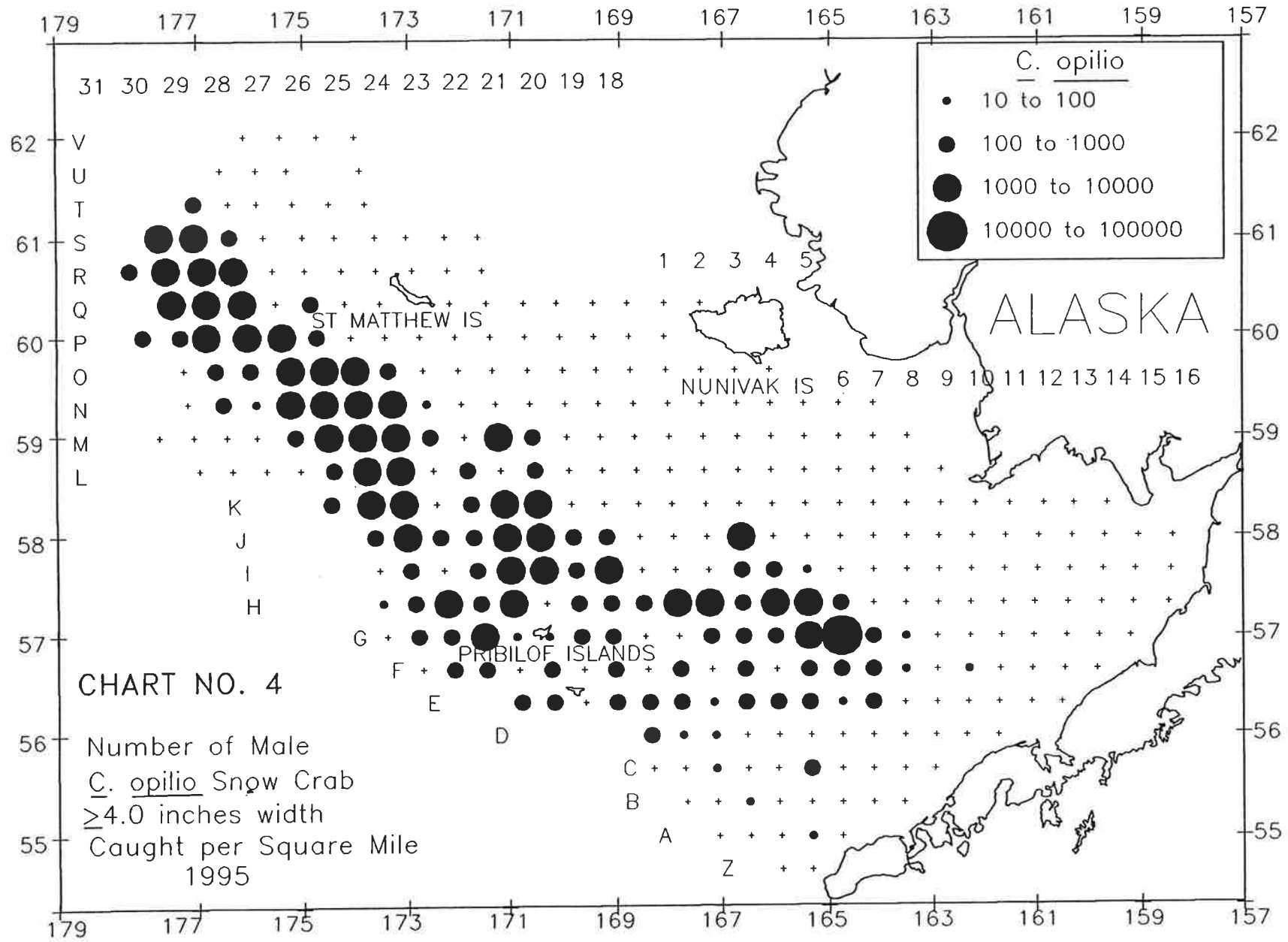
Very oldshell: A sub-category within Oldshell. Undersides of legs yellowed; abundant scratches and stains; spines and claws very worn; encrusting organisms almost always present and often abundant. It is hard to infer a time since molting. In some years, processors have paid considerably less per pound for these crabs.

[1] Note that in the report, Molting and Softshell categories are combined. The time span over which these conditions occur in a crab is only a matter of weeks. A high percentage of molting and softshell crabs in a survey population indicates that the molting season is not yet over.


Red King Crab
10 to 100
100 to 1000
1000 to 10000
ALASKA
ST MATTHEW IS
NUNIVAK IS
PRIBILOF ISLANDS
CHART NO. 1
Number of Male
Red King Crab
≥6.5 inches width
Caught per Square Mile
1995
179 177 175 173 171 169 167 165 163 161 159 157
62 61 60 59 58 57 56 55
31 30 29 28 27 26 25 24 23 22 21 20 19 18
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
V U T S R Q P O N M L
K J I H G F E D C B A Z


Blue King Crab
10 to 100
100 to 1000
1000 to 10000
ALASKA
ST MATTHEW IS
NUNIVAK IS
PRIBILOF ISLANDS
CHART NO. 2
Number of Male
Blue King Crab
≥6.5 inches width–Pribilof District
≥5.5 inches width–Northern District
Caught per Square Mile
1995
179 177 175 173 171 169 167 165 163 161 159 157
62 61 60 59 58 57 56 55


C. bairdi
10 to 100
100 to 1000
1000 to 10000
ALASKA
ST MATTHEW IS
NUNIVAK IS
PRIBILOF ISLANDS
CHART NO. 3
Number of Male
C. bairdi Tanner Crab
≥5.5 inches width
Caught per Square Mile
1995


179 177 175 173 171 169 167 165 163 161 159 157
31 30 29 28 27 26 25 24 23 22 21 20 19 18
1 2 3 4 5
6 7 8 9 10 11 12 13 14 15 16
V U T S R Q P O N M L K J I H G F E D C B A Z
62 61 60 59 58 57 56 55
C. opilio
10 to 100
100 to 1000
1000 to 10000
10000 to 100000
ST MATTHEW IS
NUNIVAK IS
PRIBILOF ISLANDS
ALASKA
CHART NO. 4
Number of Male
C. opilio Snow Crab
≥4.0 inches width
Caught per Square Mile
1995

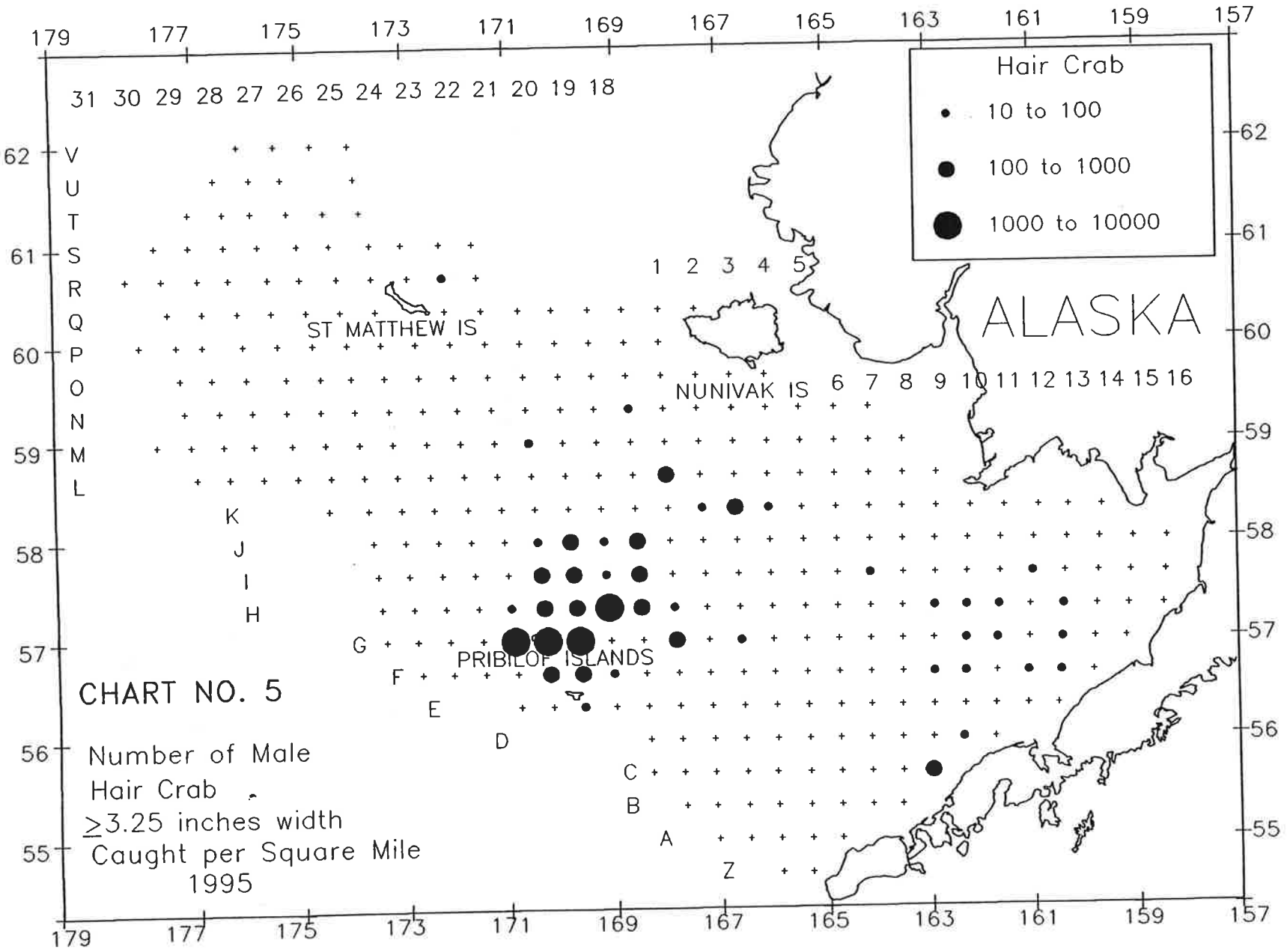

Hair Crab
10 to 100
100 to 1000
1000 to 10000
ALASKA
ST MATTHEW IS
NUNIVAK IS
PRIBILOF ISLANDS
CHART NO. 5
Number of Male
Hair Crab
≥3.25 inches width
Caught per Square Mile
1995
179 177 175 173 171 169 167 165 163 161 159 157
31 30 29 28 27 26 25 24 23 22 21 20 19 18
1 2 3 4 5
6 7 8 9 10 11 12 13 14 15 16
62 61 60 59 58 57 56 55
V U T S R Q P O N M L
K J I H G F E D C B A Z

TABLE 1. Annual abundance estimates (millions of crabs) for red king crab (*P. camtschaticus*) from NMFS surveys. Bristol Bay and Pribilof Districts are combined except where noted.

	Males				Females			
	Juveniles	Pre-rec	Legal		Small	Large		Grand
Size[1] (mm)	<110	110-134	>135	Total	<90	>90	Total	Total
Width(in)	<5.2	5.2-6.5	>6.5		<4.3	>4.3		
1975	84.9	31.7	21.0	137.6	70.8	58.9	129.7	267.3
1976	70.2	49.3	32.7	152.2	35.9	71.8	107.7	259.9
1977	80.2	63.9	37.6	181.7	33.5	150.1	183.6	365.3
1978	62.9	47.9	46.6	157.4	38.2	128.4	166.6	324.0
1979	48.1	37.2	43.9	129.2	45.1	110.9	156.0	285.2
1980	56.8	23.9	36.1	116.8	44.8	67.6	112.5	229.3
1981	56.6	18.4	11.3	86.3	36.3	67.3	103.6	189.9
1982	107.2	17.4	4.7	129.3	77.2	54.8	132.0	261.3
1983	43.3	10.4	1.5	55.2	24.3	9.7	34.0	89.2
1984	81.8	12.6	3.1	97.6	57.6	17.6	75.1	172.7
1985	13.7	10.1	2.5	26.3	6.9	6.8	13.7	39.9
1986	11.8	12.3	5.9	30.1	4.5	5.4	9.8	39.9
1987	20.1	12.6	7.9	40.6	16.8	18.3	35.1	75.7
1988	8.5	6.4	6.4	21.3	2.7	15.7	18.4	39.7
1989	8.6	9.4	11.9	29.9	4.4	16.9	21.2	51.1
1990	8.2	10.2	9.2	27.6	7.2	17.5	24.7	52.2
1991	8.1	6.4	12.0	26.5	4.7	12.6	17.4	43.9
1992	7.0	5.5	5.8	18.3	2.2	13.4	15.6	33.9
1993	5.7	10.2	9.8	25.8	2.5	19.2	21.7	47.5
1994	6.1	6.7	7.5	20.4	3.4	10.1	13.5	34.0
1995 (B)[2]	9.5	5.4	6.3	21.1	4.8	8.0	12.8	33.9
(P)	0.2	0.7	2.6	3.5	0.1	2.4	2.5	6.0
Limits[3]								
Lower	3.2	0.6	1.9	9.1	0.5	5.5	7.3	6.4
Upper	15.7	10.1	10.7	33.2	9.1	10.5	18.3	51.5
±%	66	88	70	57	90	31	43	52

[1] Carapace length (mm).

[2] Separate estimates given for Bristol Bay (B) and Pribilofs (P) Districts.

[3] Mean ± 2 standard errors for most recent year; Bristol Bay only.

TABLE 2. Annual abundance estimates (millions of crabs) for blue king crab (*P. platypus*) in the Pribilof District from NMFS surveys.

Pribilof District

	Males				Females			
	Juveniles	Pre-rec	Legal		Small	Large		Grand
Size[1](mm)	<110	110-134	≥135	Total	<90	≥90	Total	Total
Width(in)	<5.2	5.2-6.5	≥6.5		<4.3	≥4.3		
1974	4.4	3.1	1.9	9.4	0.6	10.9	11.5	20.9
1975	4.1	8.0	7.5	19.6	0.0	8.8	8.8	28.4
1976	10.3	2.1	3.9	16.3	0.4	17.7	18.1	34.4
1977	3.2	2.2	9.4	14.8	2.2	17.5	19.7	34.5
1978	1.2	5.8	4.3	11.3	0.3	35.5	35.8	47.1
1979	6.4	1.5	4.6	12.5	5.2	2.9	8.1	20.6
1980	1.9	1.4	4.2	7.5	0.8	101.9	102.7[2]	110.2
1981	4.8	1.4	4.2	10.4	3.4	11.6	15.0	25.4
1982	1.2	0.7	2.2	4.1	0.7	8.6	9.3	13.4
1983	0.6	0.8	1.3	2.8	0.2	9.2	9.4	12.2
1984	0.5	0.3	0.6	1.3	0.3	3.1	3.4	4.8
1985	0.06	0.16	0.32	0.54	0.18	0.52	0.70	1.24
1986	0.02	0.02	0.43	0.47	0.04	1.86	1.90	2.37
1987	0.57	0.08	0.73	1.38	0.39	0.58	0.97	2.35
1988	1.10	0.0	0.20	1.29	0.77	0.43	1.20	2.49
1989	3.21	0.10	0.22	3.54	2.29	1.28	3.57	7.11
1990	1.84	1.24	0.41	3.48	1.82	2.66	4.48	7.96
1991	1.32	1.03	1.01	3.36	0.56	2.80	3.37	6.73
1992	1.57	1.17	1.02	3.76	1.31	2.05	3.36	7.11
1993	0.97	0.83	0.98	2.78	0.33	2.17	2.50	5.28
1994	0.31	0.51	0.76	1.57	0.06	4.28	4.34	5.91
1995	0.79	1.16	2.00	3.95	0.44	4.02	4.46	8.41
Limits[3]								
Lower	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.0
Upper	2.2	2.7	4.5	9.4	1.3	7.8	8.6	17.9
±%	179	129	126	137	192	95	92	113

[1] Carapace length (mm).

[2] Female estimates considered unreliable in 1980.

[3] Mean ± 2 standard errors for most recent year.

TABLE 3. Annual abundance estimates (millions of crabs) for blue king crab (*P. platypus*) in the Northern District (St. Matthew Island) from NMFS surveys.

Northern District

	Males				Females			
	Juveniles	Pre-rec	Legal		Small	Large		Grand
Size[1](mm)	<105	105-119	≥120	Total	<80	≥80	Total	Total
Width(in)	<4.3	4.3-5.5	≥5.5		<3.8	≥3.8		
1978	5.6	2.4	1.8	9.8	0.8	0.4	1.2	11.0
1979	4.9	2.3	2.2	9.4	1.7	0.9	2.6	12.0
1980	3.4	2.2	2.5	8.1	0.8	2.2	3.0	11.1
1981	1.2	1.8	3.1	6.3	0.0	0.5	0.5	6.8
1982	3.2	2.6	6.8	12.5	0.4	0.7	1.1	13.7
1983	1.8	1.6	3.5	6.9	0.2	2.4	2.7	9.6
1984	1.4	0.6	1.6	3.6	0.2	0.5	0.7	4.3
1985	0.46	0.35	1.08	1.89	0.08	0.13	0.21	2.10
1986	0.56	0.40	0.38	1.34	0.25	0.06	0.31	1.65
1987	1.07	0.73	0.74	2.53	0.46	0.22	0.68	3.21
1988	1.44	0.65	0.83	2.92	0.90	0.79	1.70	4.62
1989	4.80	0.97	1.48	7.25	1.58	1.68	3.27	10.52
1990	1.44	0.75	1.66	3.85	0.45	0.20	0.65	4.50
1991	2.92	1.52	2.17	6.61	0.84	0.69	1.53	8.14
1992	2.26	1.47	2.30	6.03	0.94	0.38	1.70	7.73
1993	4.62	1.99	3.60	10.22	1.35	3.03	4.38	14.60
1994	1.55	1.42	2.47	5.44	0.11	0.40	0.51	5.95
1995	1.88	1.11	1.93	4.92	0.57	*	0.7	5.62
Limits[2]								
Lower	0.7	0.6	1.3	3.0	0.0	*	0.1	3.1
Upper	3.0	1.6	2.6	6.8	1.1	*	1.3	8.1
±%	62	43	35	39	94	*	85	45

[1] Carapace length (mm); categories reflect smaller average size in the Northern District; 80 mm is the median size at maturity for females.

[2] Mean ± 2 standard errors for most recent year.

* Too few crabs caught to estimate abundance.

TABLE 4. Annual abundance estimates (millions of crabs) for Tanner crabs (*C. bairdi*) from NMFS surveys. Data since 1988 are for Eastern District; all prior data for Bristol Bay and the Pribilof Disticts; both areas contain virtually all legal males.

	Males				Females			
	Juveniles	Pre-rec	Large		Small	Large		Grand
Size[1](mm)	<110	110-134	≥135	Total	<85	≥85	Total	Total
Width(in)	<4.3	4.3-5.3	≥5.3		<3.4	≥3.4		
1976	180.2	136.6	109.5	426.3	174.7	220.4	395.1	821.4
1977	255.0	116.3	92.1	463.4	328.4	215.8	544.2	1,007.6
1978	124.2	81.2	45.6	251.0	116.1	73.3	189.4	440.4
1979	133.1	47.7	31.5	212.3	122.6	42.1	164.7	377.0
1980	453.3	65.0	31.0	549.3	326.9	106.8	433.7	983.0
1981	303.8	24.0	14.0	341.8	324.2	79.1	403.3	745.1
1982	88.8	46.9	10.1	145.8	126.4	83.6	210.0	355.8
1983	146.3	32.0	6.7	185.0	180.1	45.4	225.5	410.5
1984	85.1	21.2	5.8	112.1	107.0	33.4	140.4	252.5
1985	31.1	9.4	4.4	44.9	24.2	15.6	39.8	84.7
1986	110.4	12.9	3.1	126.4	68.2	13.7	81.9	208.3
1987	230.1	19.7	8.3	258.0	193.3	35.5	228.8	486.8
1988	287.3	59.7	17.4	364.4	184.8	81.0	265.8	630.2
1989	403.0	102.1	42.3	547.5	338.6	63.8	402.4	949.9
1990	286.1	78.8	53.7	418.6	266.5	97.4	363.9	782.5
1991	267.2	105.4	45.5	418.1	232.1	116.8	348.9	767.0
1992	121.0	101.9	52.8	275.7	98.9	63.9	162.8	438.5
1993	76.6	63.4	27.2	167.7	57.6	29.6	87.2	254.9
1994	47.9	38.6	20.0	106.6	57.9	27.5	85.5	192.0
1995	40.4	32.4	13.3	86.1	66.6	37.2	103.8	189.9
Limits[2]								
Lower	24.6	19.1	7.5	61.1	40.0	20.1	65.4	126.5
Upper	56.1	45.7	19.2	111.1	93.3	54.3	142.2	253.3
±%	39	41	44	29	40	46	37	33

[1] Carapace width (mm).

[2] Mean ± 2 standard errors for most recent year.

TABLE 5. Annual abundance estimates (millions of crabs) for eastern Bering Sea snow crabs (*C. opilio*) from NMFS surveys (all districts combined).

	Males				Females			
		Large	V. Large		Small	Large		
Size[1](mm) Width(in)	<102 <4.0	≥102 ≥4.0	≥110 ≥4.3	Total	<50 <2.0	≥50 ≥2.0	Total	Grand Total
1982	*	*	21.7	2073	403	2256	2658	4732
1983	*	*	22.1	1858	673	1228	1913	3760
1984	1237	153	73.9	1391	610	582	1192	2583
1985	548	75	40.7	623	258	123	382	1004
1986	1179	83	45.9	1262	791	422	1212	2474
1987	4439	151	70.0	4590	2919	2929	5849	10438
1988	3467	171	90.1	3638	1235	2323	3556	7194
1989	3646	187	81.2	3833	1923	3791	5713	9546
1990	2860	420	188.7	3281	1463	2798	4261	7542
1991	3971	484	323.0	4455	3289	3575	6864	11319
1992	3158	256	164.8	3414	2434	1914	4348	7763
1993	5597	135	77.9	5732	3990	1983	5972	11704
1994	4283	72	39.9	4354	3418	1674	5092	9446
1995	4087	69	30.9	4156	2090	2409	4500	8655
East(%)[2]	61	60	50	61	24	56	40	50
Limits[3]								
Lower	3229	47.5	21.0	3283	1526	1735	3465	6748
Upper	4945	90.1	40.8	5028	2655	3084	5535	10563
±%	21	31	32	21	27	28	23	22

[1] Carapace width (mm).

[2] Proportion of size group in Eastern District.

[3] Mean ± 2 standard errors for most recent year.

* Estimates not available at present time.

TABLE 6. Annual abundance estimates (millions of crabs) for hair crab (*E. isenbeckii*) from NMFS surveys.

	Males			Females	
	Small	Large			Grand
Size[1] (mm)	<83	≥83	Total	Total	Total
Width (in)	<3.25	≥3.25			
1980	2.02	14.86	16.88	2.62	19.51
1981	2.84	14.33	17.16	0.87	18.03
1982	0.54	8.07	8.61	0.42	9.03
1983	0.24	4.39	4.63	0.83	5.46
1984	0.73	3.32	4.06	0.51	4.56
1985	0.30	2.56	2.86	0.26	3.12
1986	0.68	1.82	2.49	0.38	2.87
1987	1.59	1.35	2.93	0.89	3.83
1988	3.01	0.87	3.88	0.86	4.74
1989	11.38	1.46	12.84	0.67	13.51
1990	12.99	1.09	14.08	0.92	15.00
1991	4.45	1.27	5.72	1.18	6.90
1992	2.49	1.17	3.65	0.55	4.20
1993	9.14	2.64	11.77	1.50	13.28
1994	4.65	3.56	8.21	1.26	9.46
1995	4.56	6.54	11.10	0.69	11.79
Limits[2]					
Lower	1.87	2.62	5.88	0.37	6.25
Upper	7.25	10.46	16.32	1.02	17.34
±%	59	60	47	47	47

[1] Carapace length (mm).

[2] Mean ± 2 standard errors for most recent year.

TABLE 7. Summary of crab density by tow for red king crab *(Paralithodes camtschaticus)*

STA-TION	DATE	N. LAT. DEG MIN	W. LON. DEG MIN	DEPTH[1] (FM)	MALES				FEMALES			GRAND TOTAL
					LARGE	MEDIUM	SMALL	TOTAL	LARGE	SMALL	TOTAL	
D09	06/09/95	55 59.6	162 50.9	0	78	0	0	78	0	0	0	78
D10	06/09/95	55 59.1	162 16.2	0	685	304	304	1293	2054	0	2054	3347
E09	06/09/95	56 19.9	162 48.3	0	0	0	0	0	75	0	75	75
E10	06/09/95	56 19.2	162 13.5	0	241	80	241	563	1930	80	2011	2573
E11	06/06/95	56 20.4	161 37.2	0	308	308	0	617	1388	0	1388	2005
E12	06/06/95	56 20.0	160 59.9	0	164	329	0	493	657	82	740	1233
F07	06/10/95	56 40.5	164 1.4	0	384	0	0	384	0	0	0	384
F08	06/10/95	56 39.6	163 22.5	0	5289	5667	1285	12241	0	0	0	12241
F09	06/08/95	56 40.4	162 46.8	0	224	0	0	224	0	0	0	224
F10	06/08/95	56 39.2	162 10.1	0	78	78	0	156	391	0	391	547
F12	06/06/95	56 40.5	160 59.0	0	484	404	242	1130	888	0	888	2018
F13	06/05/95	56 39.4	160 21.7	0	288	288	719	1295	719	288	1007	2302
F14	06/05/95	56 40.1	159 44.0	0	0	97	0	97	193	0	193	290
G07	06/10/95	57 .2	164 1.7	0	151	0	0	151	0	0	0	151
G08	06/10/95	57 .8	163 23.5	0	474	158	0	632	79	0	79	711
G09	06/08/95	56 59.7	162 47.5	0	926	1496	428	2850	71	0	71	2922
G10	06/08/95	56 59.0	162 11.2	0	461	538	461	1460	692	0	692	2152
G11	06/06/95	57 .4	161 34.9	0	0	158	790	948	790	0	790	1738
G12	06/06/95	57 .2	160 57.6	0	0	78	0	78	466	0	466	544
G13	06/05/95	56 59.5	160 20.0	0	715	143	429	1287	1716	0	1716	3002
G14	06/05/95	56 59.9	159 42.5	0	76	153	0	229	76	0	76	305
G15	06/04/95	57 .7	159 4.5	0	74	0	74	149	0	0	0	149
G20	06/29/95	56 59.2	169 34.6	0	78	0	0	78	0	0	0	78
G21	06/29/95	57 9.2	169 53.1	0	4094	1303	186	5583	6886	0	6886	12469
G21	06/29/95	56 59.4	170 10.6	0	10429	1106	0	11536	948	0	948	12484
G21	06/29/95	56 59.4	170 19.1	0	2675	223	0	2898	223	0	223	3121
G21	06/29/95	56 55.3	170 11.2	0	386	0	0	386	0	0	0	386
G21	06/29/95	57 .8	170 .6	0	4383	2191	76	6650	9477	0	9477	16126
G21	06/30/95	57 5.0	170 7.7	0	2093	289	217	2598	1877	289	2165	4763
G22	06/30/95	57 6.4	170 27.9	0	4240	1608	804	6653	5045	219	5264	11917
H08	06/11/95	57 19.0	163 22.2	0	244	81	0	325	81	0	81	406
H09	06/08/95	57 19.4	162 46.5	0	150	224	75	449	0	0	0	449
H10	06/08/95	57 19.3	162 10.3	0	157	392	78	628	157	0	157	785
H11	06/06/95	57 20.1	161 32.3	0	311	466	1398	2174	932	78	1009	3184
H12	06/06/95	57 20.6	160 56.5	0	81	0	81	162	81	0	81	243
H13	06/05/95	57 19.6	160 18.4	0	826	450	225	1501	1501	0	1501	3002

TABLE 7. Summary of crab density by tow for red king crab *(Paralithodes camtschaticus)*

STA-TION	DATE	N. LAT. DEG MIN	W. LON. DEG MIN	DEPTH[1] (FM)	MALES				FEMALES			GRAND TOTAL
					LARGE	MEDIUM	SMALL	TOTAL	LARGE	SMALL	TOTAL	
H14	06/05/95	57 19.6	159 40.5	0	146	73	146	366	219	73	292	658
H15	06/04/95	57 20.4	159 4.3	0	0	78	0	78	0	0	0	78
H16	06/04/95	57 20.8	158 23.9	0	0	80	0	80	0	0	0	80
H20	06/30/95	57 20.3	169 37.9	0	302	0	0	302	151	0	151	453
I09	06/08/95	57 39.5	162 45.0	0	142	0	0	142	71	0	71	212
I10	06/08/95	57 39.7	162 7.4	0	226	75	226	527	151	0	151	678
I11	06/06/95	57 40.4	161 29.6	0	1034	557	6127	7718	2228	3581	5809	13527
I12	06/06/95	57 39.7	160 52.6	0	230	0	4749	4978	689	3830	4519	9497
I13	06/05/95	57 39.8	160 16.6	0	600	75	2477	3153	901	1726	2627	5780
I14	06/05/95	57 39.3	159 38.9	0	0	0	458	458	76	611	687	1145
I15	06/04/95	57 40.8	159 1.4	0	0	0	147	147	0	294	294	442
I21	06/30/95	57 30.5	169 58.8	0	78	0	0	78	0	0	0	78
J08	06/11/95	58 .0	163 22.7	0	77	0	77	153	77	0	77	230
J10	06/08/95	57 57.6	162 6.5	0	78	155	0	233	78	0	78	311
J11	06/07/95	58 .2	161 28.0	0	78	0	234	312	234	78	312	623
J12	06/07/95	57 59.9	160 50.3	0	75	75	1877	2027	75	1051	1126	3153
J13	06/05/95	57 59.6	160 13.0	0	74	148	74	295	74	0	74	369
J14	06/05/95	57 59.8	159 36.2	0	80	80	0	161	80	0	80	241
J16	06/04/95	58 .7	158 19.7	0	0	0	154	154	0	154	154	307
K05	06/13/95	58 19.8	165 16.8	0	75	0	0	75	75	0	75	150
K08	06/11/95	58 19.9	163 22.3	0	0	86	0	86	0	0	0	86
K12	06/07/95	58 20.4	160 46.2	0	0	76	0	76	0	76	76	152
K13	06/05/95	58 16.9	160 .6	0	0	0	73	73	0	0	0	73
L02	06/19/95	58 40.1	167 13.9	0	0	0	0	0	76	0	76	76
L03	06/18/95	58 40.0	166 34.3	0	157	0	0	157	0	78	78	235
L05	06/13/95	58 38.6	165 18.1	0	0	0	79	79	0	0	0	79
N01	06/25/95	59 19.8	167 54.7	0	0	0	157	157	0	79	79	236
N02	06/25/95	59 20.2	167 14.6	0	0	0	999	999	154	922	1076	2075
N18	06/26/95	59 19.9	168 34.6	0	0	0	162	162	0	0	0	162
O01	06/25/95	59 39.9	167 57.0	0	83	0	0	83	83	0	83	166
O18	06/26/95	59 40.5	168 35.6	0	0	0	0	0	0	82	82	82
P18	06/26/95	60 .1	168 37.8	0	0	0	155	155	0	0	0	155

NOTE: Minimum carapace widths used are:
LARGE > 6.50"; MEDIUM > 5.20".

[1] Depth information had not been validated when this document was published.

TABLE 8. Summary of crab density by tow for blue king crab *(Paralithodes platypus)*

STA-TION	DATE	N. LAT. DEG MIN	W. LON. DEG MIN	DEPTH[1] (FM)	MALES				FEMALES			GRAND TOTAL
					LARGE	MEDIUM	SMALL	TOTAL	LARGE	SMALL	TOTAL	
F20	06/29/95	56 40.9	169 33.9	0	159	0	0	159	7929	0	7929	8087
F20	06/28/95	56 49.8	169 16.8	0	73	218	0	291	291	0	291	581
F21	06/29/95	56 49.8	169 52.6	0	292	73	0	366	3071	0	3071	3436
G19	06/28/95	56 59.9	168 57.8	0	0	81	0	81	0	0	0	81
G20	06/29/95	56 59.2	169 34.6	0	628	157	78	863	1883	0	1883	2746
G21	06/29/95	57 9.2	169 53.1	0	0	93	0	93	372	0	372	465
G21	06/29/95	56 59.4	170 10.6	0	1027	316	0	1343	474	0	474	1817
G21	06/29/95	56 59.4	170 19.1	0	297	149	0	446	595	0	595	1040
G21	06/29/95	56 55.3	170 11.2	0	231	77	0	308	0	0	0	308
G21	06/29/95	57 .8	170 .6	0	453	227	0	680	3627	0	3627	4307
G21	06/30/95	57 5.0	170 7.7	0	289	0	217	505	217	0	217	722
G22	06/30/95	57 6.4	170 27.9	0	0	0	0	0	73	0	73	73
H01	06/19/95	57 19.8	167 42.2	0	75	0	0	75	0	0	0	75
H18	06/28/95	57 20.0	168 23.0	0	82	0	0	82	0	0	0	82
H19	06/27/95	57 29.3	168 44.9	0	0	80	0	80	0	0	0	80
H19	06/28/95	57 10.2	168 37.9	0	491	164	0	655	0	0	0	655
H19	06/28/95	57 19.6	168 58.8	0	5878	3511	3282	12671	2977	1985	4962	17633
H20	06/30/95	57 20.3	169 37.9	0	76	0	76	151	302	0	302	453
H20	06/28/95	57 10.7	169 18.9	0	387	232	0	619	232	0	232	851
I19	06/27/95	57 40.3	169 4.7	0	163	81	0	244	0	0	0	244
I20	06/30/95	57 41.2	169 39.1	0	0	164	82	246	0	0	0	246
I20	06/27/95	57 30.6	169 21.7	0	78	235	78	392	78	78	157	549
I21	06/30/95	57 30.5	169 58.8	0	233	0	0	233	233	0	233	466
K22	07/03/95	58 20.0	171 1.7	0	0	78	0	78	0	0	0	78
L27	07/12/95	58 40.7	174 16.1	0	74	74	74	222	0	0	0	222
M26	07/12/95	58 59.6	173 42.3	0	0	151	76	227	0	0	0	227
M27	07/12/95	59 1.0	174 23.6	0	156	313	469	938	0	0	0	938
M28	07/19/95	59 .4	175 .0	0	83	662	83	828	0	0	0	828
N24	07/08/95	59 20.0	172 30.1	0	82	0	0	82	82	0	82	163
N25	07/08/95	59 20.8	173 9.1	0	150	0	0	150	0	0	0	150
N26	07/12/95	59 20.0	173 47.7	0	221	221	147	589	0	0	0	589
N27	07/12/95	59 19.9	174 26.6	0	0	0	97	97	0	0	0	97
O03	06/18/95	59 39.8	166 38.4	0	75	0	0	75	0	0	0	75
O24	07/08/95	59 40.4	172 34.0	0	114	0	0	114	0	0	0	114
O25	07/11/95	59 30.3	173 29.0	0	706	0	235	942	0	0	0	942
O25	07/08/95	59 39.6	173 13.1	0	327	196	65	589	0	0	0	589

TABLE 8. Summary of crab density by tow for blue king crab *(Paralithodes platypus)*

STA-TION	DATE	N. LAT. DEG MIN	W. LON. DEG MIN	DEPTH[1] (FM)	MALES				FEMALES			GRAND TOTAL
					LARGE	MEDIUM	SMALL	TOTAL	LARGE	SMALL	TOTAL	
O25	07/08/95	59 49.6	172 55.8	0	139	0	0	139	0	0	0	139
O26	07/11/95	59 39.6	173 51.9	0	324	81	0	405	0	0	0	405
O27	07/12/95	59 40.1	174 26.7	0	0	67	67	134	0	0	0	134
O28	07/19/95	59 40.3	175 5.8	0	0	79	0	79	0	0	0	79
P23	07/08/95	59 50.3	172 14.5	0	76	0	0	76	0	151	151	227
P23	07/03/95	60 .7	171 57.8	0	0	74	74	148	0	0	0	148
P24	07/08/95	60 .4	172 38.3	0	230	0	77	306	0	77	77	383
P25	07/11/95	59 50.0	173 34.4	0	402	80	241	724	0	0	0	724
P25	07/08/95	60 .3	173 16.3	0	878	160	559	1597	80	0	80	1677
P25	07/08/95	60 9.6	173 1.6	0	240	240	1677	2156	80	639	719	2875
P26	07/11/95	60 7.7	173 44.7	0	158	158	0	316	0	0	0	316
P26	07/11/95	60 .4	173 56.7	0	153	153	0	306	0	0	0	306
P27	07/12/95	60 .8	174 35.9	0	197	98	0	295	0	0	0	295
P27	07/12/95	59 51.1	174 15.2	0	433	72	72	577	0	0	0	577
Q23	07/08/95	60 10.1	172 19.5	0	229	0	0	229	0	0	0	229
Q23	07/02/95	60 20.7	172 3.3	0	72	72	724	869	0	579	579	1448
Q25	07/09/95	60 18.4	173 23.9	0	395	474	1106	1975	158	553	711	2686
Q26	07/11/95	60 19.7	174 3.3	0	168	84	168	420	0	0	0	420
Q27	07/11/95	60 20.8	174 43.8	0	143	0	71	214	0	0	0	214
Q27	07/11/95	60 10.9	174 22.6	0	0	155	78	233	0	0	0	233
Q28	07/20/95	60 20.2	175 23.3	0	0	161	0	161	0	0	0	161
Q29	07/20/95	60 20.1	176 2.2	0	83	0	0	83	0	0	0	83
R24	07/09/95	60 40.3	172 46.8	0	382	305	229	916	0	76	76	992
R25	07/09/95	60 39.5	173 28.0	0	74	74	74	223	74	0	74	297
R26	07/09/95	60 40.3	174 6.7	0	69	0	69	137	0	0	0	137
R27	07/09/95	60 40.6	174 47.6	0	68	0	0	68	0	0	0	68
R28	07/11/95	60 40.4	175 27.1	0	68	0	0	68	0	0	0	68
V25	07/10/95	61 59.8	173 45.2	0	0	0	0	0	77	0	77	77

NOTE: Minimum carapace widths used are:
NORTHERN DISTRICT: LARGE > 5.5"; MEDIUM > 4.3".
SOUTHERN DISTRICT: LARGE > 6.5"; MEDIUM > 5.2".

[1] Depth information had not been validated when this document was published.

TABLE 9. Summary of crab density by tow for Tanner Crab *(Chionoecetes bairdi)*

STA-TION	DATE	N. LAT. DEG MIN	W. LON. DEG MIN	DEPTH[1] (FM)	MALES				FEMALES			GRAND TOTAL
					LARGE	MEDIUM	SMALL	TOTAL	LARGE	SMALL	TOTAL	
A02	06/21/95	54 59.4	166 56.8	0	85	171	6653	6909	256	5203	5459	12368
A03	06/16/95	55 .3	166 22.0	0	76	1065	1826	2967	3531	6810	10341	13308
A04	06/16/95	55 .5	165 45.6	0	161	322	3539	4021	1448	9409	10857	14878
A05	06/15/95	54 59.6	165 9.0	0	217	722	722	1660	144	794	938	2598
B01	06/21/95	55 20.1	167 32.5	0	0	72	1158	1231	72	869	941	2172
B02	06/21/95	55 19.9	166 58.0	0	87	175	1135	1396	524	786	1309	2706
B03	06/16/95	55 20.5	166 21.1	0	149	743	2378	3270	2007	5871	7878	11148
B04	06/16/95	55 20.7	165 47.0	0	0	0	571	571	82	1305	1387	1958
B05	06/15/95	55 20.0	165 11.2	0	75	75	75	225	0	0	0	225
B06	06/14/95	55 19.7	164 35.5	0	670	2595	753	4018	502	1172	1674	5692
B08	06/09/95	55 20.4	163 24.0	0	0	237	237	474	0	0	0	474
C01	06/20/95	55 39.7	167 35.2	0	73	880	1027	1980	293	513	807	2787
C02	06/20/95	55 39.9	166 58.9	0	84	0	336	420	84	252	336	756
C03	06/16/95	55 40.4	166 22.4	0	0	366	1608	1974	877	950	1828	3802
C04	06/16/95	55 40.2	165 48.2	0	0	0	1883	1883	2956	5133	8089	9973
C05	06/14/95	55 39.6	165 12.0	0	71	283	71	425	0	0	0	425
C06	06/14/95	55 39.3	164 36.2	0	0	447	298	746	447	224	671	1417
C07	06/10/95	55 40.3	164 1.3	0	647	2518	2374	5540	8172	6687	14859	20399
C08	06/10/95	55 40.0	163 23.2	0	0	0	932	932	233	1475	1708	2640
C09	06/09/95	55 40.0	162 51.0	0	0	139	349	488	139	0	139	627
C18	06/21/95	55 39.9	168 11.6	0	0	0	600	600	0	300	300	901
D01	06/20/95	55 59.7	167 36.6	0	74	223	520	817	149	520	669	1486
D02	06/20/95	55 59.4	166 58.9	0	0	0	417	417	0	250	250	667
D03	06/16/95	56 .2	166 24.2	0	0	0	231	231	77	308	386	617
D04	06/16/95	56 .2	165 48.0	0	330	660	907	1897	165	165	330	2227
D05	06/14/95	55 59.9	165 11.4	0	198	298	198	694	397	99	496	1190
D06	06/14/95	55 59.9	164 35.0	0	425	1133	142	1699	991	708	1699	3399
D07	06/10/95	56 .4	164 2.1	0	78	78	549	706	549	1177	1726	2432
D08	06/10/95	56 .6	163 23.2	0	0	0	406	406	81	732	813	1219
D09	06/09/95	55 59.6	162 50.9	0	78	0	621	699	0	155	155	854
D10	06/09/95	55 59.1	162 16.2	0	0	152	152	304	76	0	76	380
D18	06/21/95	55 59.9	168 15.1	0	0	293	1247	1540	0	1540	1540	3081
E02	06/20/95	56 19.4	167 1.5	0	0	490	0	490	82	163	245	734
E03	06/16/95	56 20.2	166 24.8	0	153	458	305	916	992	305	1298	2214
E04	06/16/95	56 19.9	165 48.7	0	0	487	122	609	365	243	609	1217

TABLE 9. Summary of crab density by tow for Tanner Crab *(Chionoecetes bairdi)*

STA-TION	DATE	N. LAT. DEG MIN	W. LON. DEG MIN	DEPTH[1] (FM)	MALES				FEMALES			GRAND TOTAL
					LARGE	MEDIUM	SMALL	TOTAL	LARGE	SMALL	TOTAL	
E05	06/14/95	56 19.7	165 11.7	0	3911	5448	698	10058	8805	5742	14548	24606
E06	06/14/95	56 19.8	164 34.7	0	2486	5248	1519	9253	10097	4252	14349	23602
E07	06/10/95	56 20.2	164 2.1	0	227	455	379	1061	986	303	1289	2350
E08	06/10/95	56 19.2	163 25.2	0	0	86	86	173	431	86	518	690
E09	06/09/95	56 19.9	162 48.3	0	75	151	226	452	226	151	377	828
E10	06/09/95	56 19.2	162 13.5	0	643	241	161	1045	483	80	563	1608
E11	06/06/95	56 20.4	161 37.2	0	231	154	0	386	308	0	308	694
E12	06/06/95	56 20.0	160 59.9	0	247	82	247	575	0	0	0	575
E18	06/28/95	56 19.3	168 14.7	0	83	745	993	1821	0	166	166	1987
E19	06/28/95	56 20.9	168 52.4	0	0	1258	1618	2876	1979	3778	5758	8634
E20	06/29/95	56 26.0	169 25.7	0	0	0	170	170	0	85	85	255
E21	06/29/95	56 20.6	170 3.8	0	350	1189	1748	3287	2350	17388	19738	23024
E22	07/06/95	56 19.8	170 40.1	0	75	301	1054	1431	151	828	979	2410
F01	06/20/95	56 39.7	167 40.8	0	0	0	148	148	74	221	295	443
F02	06/20/95	56 38.9	167 4.7	0	564	1831	1831	4226	2735	4103	6838	11065
F03	06/17/95	56 39.9	166 25.8	0	541	9093	6062	15697	9599	10751	20351	36048
F04	06/17/95	56 40.3	165 52.3	0	247	1072	2639	3959	907	2804	3712	7671
F05	06/14/95	56 39.8	165 12.6	0	0	386	1234	1619	540	771	1311	2930
F06	06/14/95	56 40.0	164 36.2	0	0	1811	1496	3307	1102	1496	2598	5905
F07	06/10/95	56 40.5	164 1.4	0	845	2152	1230	4227	1537	845	2382	6609
F08	06/10/95	56 39.6	163 22.5	0	151	76	76	302	151	151	302	605
F09	06/08/95	56 40.4	162 46.8	0	0	224	598	823	299	374	673	1496
F10	06/08/95	56 39.2	162 10.1	0	1173	469	938	2580	313	704	1016	3597
F11	06/06/95	56 40.5	161 36.5	0	1087	155	155	1398	1398	0	1398	2795
F12	06/06/95	56 40.5	160 59.0	0	161	323	81	565	81	81	161	726
F13	06/05/95	56 39.4	160 21.7	0	72	0	0	72	0	0	0	72
F18	06/28/95	56 39.3	168 17.7	0	0	0	1939	1939	0	0	0	1939
F19	06/28/95	56 49.7	168 36.7	0	0	0	158	158	158	316	474	632
F19	06/28/95	56 39.9	168 55.3	0	0	408	326	734	0	0	0	734
F20	06/29/95	56 40.9	169 33.9	0	0	476	555	1031	79	79	159	1189
F20	06/28/95	56 49.8	169 16.8	0	0	73	145	218	73	73	145	363
F21	06/29/95	56 49.8	169 52.6	0	527	3028	2765	6320	512	292	804	7124
F21	06/29/95	56 40.1	170 6.9	0	704	2111	3096	5911	15066	16376	31442	37353
F22	07/06/95	56 39.3	170 44.0	0	0	149	817	966	297	817	1115	2081
F23	07/06/95	56 39.9	171 21.9	0	0	1370	685	2054	0	632	632	2686

TABLE 9. Summary of crab density by tow for Tanner Crab *(Chionoecetes bairdi)*

STA-TION	DATE	N. LAT. DEG MIN	W. LON. DEG MIN	DEPTH[1] (FM)	MALES				FEMALES			GRAND TOTAL
					LARGE	MEDIUM	SMALL	TOTAL	LARGE	SMALL	TOTAL	
F24	07/06/95	56 39.6	171 58.5	0	0	0	76	76	151	302	453	529
F25	07/06/95	56 39.6	172 36.5	0	0	0	2292	2292	0	2966	2966	5259
G01	06/20/95	56 59.9	167 42.3	0	0	74	2879	2953	0	2289	2289	5242
G02	06/20/95	56 59.1	167 5.3	0	0	936	5427	6363	318	1114	1432	7795
G03	06/17/95	57 .3	166 28.0	0	77	615	615	1307	231	615	845	2152
G04	06/17/95	57 .8	165 51.5	0	0	234	701	935	0	701	701	1636
G05	06/14/95	57 .0	165 13.0	0	235	392	2275	2903	0	392	392	3295
G06	06/13/95	57 .1	164 36.9	0	0	0	716	716	0	0	0	716
G07	06/10/95	57 .2	164 1.7	0	0	377	151	527	151	527	678	1205
G08	06/10/95	57 .8	163 23.5	0	237	316	316	869	316	0	316	1185
G09	06/08/95	56 59.7	162 47.5	0	285	570	285	1140	285	0	285	1425
G10	06/08/95	56 59.0	162 11.2	0	3458	2382	384	6225	2536	0	2536	8761
G11	06/06/95	57 .4	161 34.9	0	553	474	0	1027	790	0	790	1817
G12	06/06/95	57 .2	160 57.6	0	78	78	0	155	78	0	78	233
G13	06/05/95	56 59.5	160 20.0	0	143	143	143	429	0	0	0	429
G18	06/28/95	57 .5	168 21.4	0	0	0	446	446	223	892	1115	1561
G19	06/28/95	56 59.9	168 57.8	0	0	0	163	163	0	0	0	163
G20	06/29/95	56 59.2	169 34.6	0	0	157	78	235	0	157	157	392
G21	06/29/95	57 9.2	169 53.1	0	0	93	465	558	186	558	744	1303
G21	06/29/95	56 59.4	170 10.6	0	79	632	1975	2686	395	1185	1580	4267
G21	06/29/95	56 59.4	170 19.1	0	74	743	4236	5054	446	446	892	5945
G21	06/29/95	56 55.3	170 11.2	0	1234	5475	4010	10719	11440	6240	17680	28399
G21	06/29/95	57 .8	170 .6	0	302	529	1662	2494	4005	2438	6443	8936
G21	06/30/95	57 5.0	170 7.7	0	0	72	794	866	0	361	361	1227
G22	07/06/95	56 58.8	170 47.4	0	0	192	960	1151	128	64	192	1343
G22	06/29/95	56 51.1	170 28.5	0	0	77	1388	1465	231	617	848	2314
G23	07/04/95	57 .7	171 23.4	0	0	0	67	67	0	67	67	134
G24	07/06/95	56 59.9	172 3.0	0	0	0	499	499	0	356	356	855
G25	07/06/95	56 59.6	172 39.8	0	0	0	3671	3671	212	4306	4518	8188
G26	07/18/95	57 .2	173 14.8	0	0	0	157	157	0	78	78	235
H01	06/19/95	57 19.8	167 42.2	0	0	0	597	597	0	0	0	597
H03	06/17/95	57 20.3	166 28.7	0	0	0	75	75	0	75	75	150
H04	06/17/95	57 20.8	165 51.9	0	0	0	83	83	0	0	0	83
H05	06/13/95	57 19.8	165 14.5	0	0	78	156	234	78	78	156	390
H06	06/13/95	57 19.9	164 37.6	0	392	78	314	785	0	78	78	863

TABLE 9. Summary of crab density by tow for Tanner Crab *(Chionoecetes bairdi)*

STA-TION	DATE	N. LAT. DEG MIN	W. LON. DEG MIN	DEPTH[1] (FM)	MALES				FEMALES			GRAND TOTAL
					LARGE	MEDIUM	SMALL	TOTAL	LARGE	SMALL	TOTAL	
H07	06/11/95	57 20.0	164 1.6	0	76	229	305	611	0	153	153	763
H08	06/11/95	57 19.0	163 22.2	0	244	244	488	976	0	244	244	1219
H09	06/08/95	57 19.4	162 46.5	0	224	224	224	673	0	0	0	673
H10	06/08/95	57 19.3	162 10.3	0	235	471	157	863	0	0	0	863
H11	06/06/95	57 20.1	161 32.3	0	155	155	0	311	78	0	78	388
H12	06/06/95	57 20.6	160 56.5	0	81	162	0	243	243	0	243	486
H13	06/05/95	57 19.6	160 18.4	0	150	300	75	525	150	0	150	676
H18	06/28/95	57 20.0	168 23.0	0	0	0	82	82	0	0	0	82
H19	06/28/95	57 10.2	168 37.9	0	0	0	164	164	0	82	82	246
H19	06/28/95	57 19.6	168 58.8	0	0	0	76	76	0	0	0	76
H20	06/30/95	57 20.3	169 37.9	0	0	0	151	151	0	76	76	227
H20	06/28/95	57 10.7	169 18.9	0	0	77	696	774	0	77	77	851
H22	07/04/95	57 22.0	170 53.6	0	0	218	73	291	73	0	73	363
H22	06/30/95	57 29.6	170 32.2	0	133	133	266	533	0	0	0	533
H23	07/04/95	57 20.6	171 27.9	0	0	95	382	477	95	95	191	668
H24	07/06/95	57 19.5	172 4.9	0	74	74	519	667	0	74	74	741
H25	07/06/95	57 19.9	172 39.9	0	0	0	839	839	0	839	839	1678
H26	07/18/95	57 20.5	173 20.2	0	0	0	1980	1980	412	1815	2227	4207
I04	06/17/95	57 39.8	165 52.8	0	0	0	82	82	0	0	0	82
I05	06/13/95	57 39.8	165 15.9	0	0	0	148	148	0	74	74	222
I06	06/13/95	57 40.0	164 36.8	0	0	84	0	84	0	84	84	168
I07	06/11/95	57 40.1	164 1.6	0	0	0	0	0	153	229	382	382
I10	06/08/95	57 39.7	162 7.4	0	75	226	0	301	0	0	0	301
I11	06/06/95	57 40.4	161 29.6	0	80	239	239	557	0	0	0	557
I12	06/06/95	57 39.7	160 52.6	0	0	0	0	0	77	0	77	77
I13	06/05/95	57 39.8	160 16.6	0	0	75	150	225	0	0	0	225
I15	06/04/95	57 40.8	159 1.4	0	0	0	147	147	0	0	0	147
I20	06/27/95	57 30.6	169 21.7	0	0	0	78	78	0	0	0	78
I21	06/30/95	57 30.5	169 58.8	0	0	78	155	233	0	0	0	233
I21	06/30/95	57 38.9	170 17.4	0	0	0	108	108	0	0	0	108
I22	07/04/95	57 40.3	170 49.6	0	0	0	87	87	0	0	0	87
I22	06/30/95	57 49.8	170 36.9	0	0	0	207	207	0	0	0	207
I23	07/04/95	57 40.6	171 31.4	0	0	0	205	205	102	307	409	614
I24	07/07/95	57 40.5	172 11.4	0	0	0	0	0	0	671	671	671
I25	07/07/95	57 40.5	172 48.0	0	0	76	531	607	455	1668	2123	2729

TABLE 9. Summary of crab density by tow for Tanner Crab *(Chionoecetes bairdi)*

STA-TION	DATE	N. LAT. DEG	N. LAT. MIN	W. LON. DEG	W. LON. MIN	DEPTH[1] (FM)	MALES LARGE	MALES MEDIUM	MALES SMALL	MALES TOTAL	FEMALES LARGE	FEMALES SMALL	FEMALES TOTAL	GRAND TOTAL
I26	07/18/95	57	40.0	173	23.6	0	0	0	1815	1815	412	2392	2804	4619
J01	06/19/95	58	.0	167	48.0	0	0	0	76	76	0	0	0	76
J03	06/17/95	57	59.9	166	31.0	0	0	0	310	310	155	232	387	696
J04	06/17/95	58	.6	165	54.1	0	0	0	86	86	86	86	171	257
J05	06/13/95	57	59.7	165	15.3	0	0	0	361	361	0	0	0	361
J06	06/13/95	57	59.3	164	36.3	0	0	0	246	246	0	82	82	328
J23	07/04/95	58	.0	171	35.8	0	0	75	225	300	0	0	0	300
J24	07/07/95	58	.7	172	13.8	0	0	0	392	392	0	0	0	392
J25	07/07/95	57	59.2	172	52.1	0	0	95	946	1041	189	662	852	1892
J26	07/18/95	57	59.7	173	28.1	0	0	0	0	0	0	286	286	286
K01	06/19/95	58	19.9	167	50.6	0	0	0	218	218	145	291	436	654
K02	06/19/95	58	19.8	167	11.9	0	0	0	730	730	0	1460	1460	2189
K03	06/18/95	58	19.6	166	33.5	0	0	0	382	382	0	153	153	534
K04	06/18/95	58	19.6	165	55.9	0	0	0	159	159	0	79	79	238
K05	06/13/95	58	19.8	165	16.8	0	0	0	0	0	0	75	75	75
K25	07/07/95	58	20.7	172	56.2	0	0	0	392	392	392	587	979	1371
K26	07/12/95	58	19.6	173	33.7	0	0	240	559	799	80	80	160	958
K27	07/18/95	58	20.1	174	18.0	0	0	0	1115	1115	0	279	279	1394
L01	06/19/95	58	40.0	167	52.9	0	0	0	611	611	0	229	229	840
L02	06/19/95	58	40.1	167	13.9	0	0	0	1137	1137	0	910	910	2047
L03	06/18/95	58	40.0	166	34.3	0	0	0	157	157	0	157	157	314
L25	07/07/95	58	38.8	172	58.5	0	0	68	609	676	68	203	270	947
L26	07/12/95	58	39.4	173	37.5	0	0	232	774	1006	0	542	542	1548
L27	07/12/95	58	40.7	174	16.1	0	0	222	2963	3185	0	3778	3778	6963
L28	07/19/95	58	42.6	174	55.0	0	0	0	13208	13208	0	12492	12492	25701
L29	07/19/95	58	39.8	175	33.4	0	0	0	5740	5740	74	4121	4195	9934
L30	07/22/95	58	40.2	176	8.1	0	0	0	507	507	0	217	217	724
L31	07/22/95	58	39.7	176	50.0	0	0	0	580	580	0	414	414	993
M01	06/25/95	59	1.1	167	53.1	0	0	0	1329	1329	0	1107	1107	2436
M02	06/25/95	59	.1	167	13.6	0	0	0	154	154	0	77	77	231
M03	06/18/95	59	.0	166	34.3	0	0	0	0	0	0	153	153	153
M24	07/07/95	59	.7	172	25.7	0	0	0	79	79	0	0	0	79
M25	07/07/95	58	59.7	173	4.0	0	0	386	3732	4118	0	0	0	4118
M26	07/12/95	58	59.6	173	42.3	0	0	1396	1257	2653	1139	1465	2604	5257
M27	07/12/95	59	1.0	174	23.6	0	0	0	2815	2815	156	1564	1720	4535

TABLE 9. Summary of crab density by tow for Tanner Crab *(Chionoecetes bairdi)*

STA-TION	DATE	N. LAT. DEG MIN	W. LON. DEG MIN	DEPTH[1] (FM)	MALES				FEMALES			GRAND TOTAL
					LARGE	MEDIUM	SMALL	TOTAL	LARGE	SMALL	TOTAL	
M28	07/19/95	59 .4	175 .0	0	0	331	745	1076	0	828	828	1904
M29	07/19/95	58 59.9	175 44.0	0	0	0	1813	1813	70	70	139	1952
M30	07/22/95	59 .7	176 18.6	0	0	0	505	505	0	404	404	909
M31	07/22/95	58 59.4	176 56.6	0	0	0	80	80	0	241	241	322
M32	07/21/95	59 .7	177 35.5	0	0	71	3126	3197	0	852	852	4049
N01	06/25/95	59 19.8	167 54.7	0	0	0	79	79	0	157	157	236
N02	06/25/95	59 20.2	167 14.6	0	0	0	77	77	0	0	0	77
N24	07/08/95	59 20.0	172 30.1	0	0	0	82	82	0	0	0	82
N25	07/08/95	59 20.8	173 9.1	0	0	0	150	150	0	0	0	150
N26	07/12/95	59 20.0	173 47.7	0	0	147	957	1104	0	6549	6549	7653
N27	07/12/95	59 19.9	174 26.6	0	0	0	194	194	0	194	194	388
N28	07/19/95	59 20.3	175 5.6	0	0	0	236	236	79	79	157	394
N29	07/19/95	59 19.7	175 45.0	0	68	0	338	406	68	68	135	541
N30	07/22/95	59 21.3	176 23.2	0	0	0	0	0	0	288	288	288
N31	07/22/95	59 19.3	177 3.8	0	0	0	412	412	0	660	660	1072
O01	06/25/95	59 39.9	167 57.0	0	0	0	0	0	83	0	83	83
O18	06/26/95	59 40.5	168 35.6	0	0	0	0	0	0	82	82	82
O25	07/11/95	59 30.3	173 29.0	0	0	0	1648	1648	0	2197	2197	3845
O26	07/11/95	59 39.6	173 51.9	0	0	0	0	0	0	162	162	162
O28	07/19/95	59 40.3	175 5.8	0	0	79	159	238	0	159	159	396
O29	07/19/95	59 39.9	175 52.1	0	0	0	69	69	0	0	0	69
O30	07/22/95	59 40.5	176 31.8	0	0	138	829	967	69	207	276	1243
O31	07/22/95	59 39.3	177 7.7	0	0	0	249	249	0	166	166	415
P01	06/25/95	59 59.5	167 59.8	0	0	0	83	83	0	0	0	83
P18	06/26/95	60 .1	168 37.8	0	0	0	78	78	0	78	78	155
P31	07/21/95	59 59.4	177 13.0	0	0	0	86	86	0	0	0	86
P32	07/21/95	60 .1	177 57.7	0	0	0	291	291	0	0	0	291
R32	07/21/95	60 40.8	178 11.4	0	0	0	1754	1754	0	1964	1964	3718
S31	07/21/95	60 59.9	177 37.7	0	0	0	328	328	0	0	0	328
Z04	06/15/95	54 49.9	165 31.3	0	72	144	16709	16925	0	18561	18561	35486
Z05	06/15/95	54 39.7	165 8.2	0	0	0	77	77	0	0	0	77

NOTE: Minimum carapace widths used are:
LARGE > 5.50"; MEDIUM > 4.30".

[1] Depth information had not been validated when this document was published.

TABLE 10. Summary of crab density by tow for snow crab *(Chionoecetes opilio)*

STA-TION	DATE	N. LAT. DEG MIN	W. LON. DEG MIN	DEPTH[1] (FM)	MALES				FEMALES			GRAND TOTAL
					LARGE	MEDIUM	SMALL	TOTAL	LARGE	SMALL	TOTAL	
A03	06/16/95	55 .3	166 22.0	0	0	0	0	0	228	0	228	228
A04	06/16/95	55 .5	165 45.6	0	0	0	80	80	0	0	0	80
A05	06/15/95	54 59.6	165 9.0	0	72	0	0	72	0	0	0	72
B03	06/16/95	55 20.5	166 21.1	0	74	0	74	149	0	0	0	149
B04	06/16/95	55 20.7	165 47.0	0	0	0	82	82	0	0	0	82
B05	06/15/95	55 20.0	165 11.2	0	0	0	75	75	0	0	0	75
C01	06/20/95	55 39.7	167 35.2	0	0	147	73	220	440	0	440	660
C02	06/20/95	55 39.9	166 58.9	0	84	0	0	84	0	0	0	84
C05	06/14/95	55 39.6	165 12.0	0	212	0	71	283	0	0	0	283
C06	06/14/95	55 39.3	164 36.2	0	0	75	0	75	0	0	0	75
C07	06/10/95	55 40.3	164 1.3	0	0	72	216	288	0	0	0	288
D01	06/20/95	55 59.7	167 36.6	0	74	1635	1709	3419	16119	0	16119	19537
D02	06/20/95	55 59.4	166 58.9	0	83	0	0	83	0	0	0	83
D05	06/14/95	55 59.9	165 11.4	0	0	0	298	298	99	0	99	397
D06	06/14/95	55 59.9	164 35.0	0	0	0	142	142	0	0	0	142
D08	06/10/95	56 .6	163 23.2	0	0	0	325	325	0	0	0	325
D18	06/21/95	55 59.9	168 15.1	0	220	73	147	440	0	0	0	440
E01	06/20/95	56 19.7	167 39.0	0	510	4586	13352	18448	164032	2310	166342	184790
E02	06/20/95	56 19.4	167 1.5	0	82	0	0	82	0	0	0	82
E03	06/16/95	56 20.2	166 24.8	0	229	840	1221	2290	2901	0	2901	5191
E04	06/16/95	56 19.9	165 48.7	0	243	487	122	852	122	0	122	974
E05	06/14/95	56 19.7	165 11.7	0	151	226	602	979	452	0	527	1506
E06	06/14/95	56 19.8	164 34.7	0	85	0	339	423	0	0	0	423
E07	06/10/95	56 20.2	164 2.1	0	227	0	531	758	76	0	76	834
E08	06/10/95	56 19.2	163 25.2	0	0	86	0	86	0	0	0	86
E09	06/09/95	56 19.9	162 48.3	0	0	75	0	75	0	0	0	75
E10	06/10/95	56 21.3	162 21.8	70	0	0	88	88	0	0	0	88
E11	06/06/95	56 20.4	161 37.2	0	0	0	154	154	0	0	0	154
E18	06/28/95	56 19.3	168 14.7	0	993	2898	3229	7120	828	166	993	8113
E19	06/28/95	56 20.9	168 52.4	0	180	899	8269	9348	212354	5056	217410	226758
E20	06/29/95	56 26.0	169 25.7	0	0	85	0	85	0	0	0	85
E21	06/29/95	56 20.6	170 3.8	0	979	3357	5175	9511	88023	0	88023	97534
E22	07/06/95	56 19.8	170 40.1	0	301	75	75	452	75	0	75	527
F01	06/20/95	56 39.7	167 40.8	0	631	6727	29012	36370	29679	0	29679	66049
F02	06/20/95	56 38.9	167 4.7	0	0	488	1301	1788	2439	81	2520	4309
F03	06/17/95	56 39.9	166 25.8	0	305	840	1985	3130	305	0	305	3435

TABLE 10. Summary of crab density by tow for snow crab *(Chionoecetes opilio)*

STA-TION	DATE	N. LAT. DEG MIN	W. LON. DEG MIN	DEPTH[1] (FM)	MALES				FEMALES			GRAND TOTAL
					LARGE	MEDIUM	SMALL	TOTAL	LARGE	SMALL	TOTAL	
F04	06/17/95	56 40.3	165 52.3	0	0	330	2722	3052	412	0	412	3464
F05	06/14/95	56 39.8	165 12.6	0	154	308	386	848	77	0	77	925
F06	06/14/95	56 40.0	164 36.2	0	157	157	157	472	0	0	0	472
F07	06/10/95	56 40.5	164 1.4	0	154	231	307	692	231	0	231	922
F08	06/10/95	56 39.6	163 22.5	0	76	0	0	76	0	0	0	76
F09	06/08/95	56 40.4	162 46.8	0	0	75	0	75	0	0	0	75
F10	06/17/95	56 39.3	162 10.3	73	0	0	76	76	0	0	0	76
F10	06/17/95	56 40.7	162 21.1	67	76	0	0	76	0	0	0	76
F18	06/28/95	56 39.3	168 17.7	0	0	3864	7728	11593	151247	3878	155125	166717
F19	06/28/95	56 49.7	168 36.7	0	474	1580	4346	6400	111030	0	111030	117430
F19	06/28/95	56 39.9	168 55.3	0	408	3263	5466	9138	179753	3745	183498	192636
F20	06/28/95	56 49.8	169 16.8	0	0	508	2107	2615	0	0	0	2615
F21	06/29/95	56 49.8	169 52.6	0	439	73	146	658	0	0	0	658
F21	06/29/95	56 40.1	170 6.9	0	141	422	1126	1689	4644	0	4644	6333
F23	07/06/95	56 39.9	171 21.9	0	687	6866	4807	12360	331137	0	331137	343497
F24	07/06/95	56 39.6	171 58.5	0	284	4540	8229	13053	28179	0	28179	41233
F25	07/06/95	56 39.6	172 36.5	0	0	67	135	202	0	0	0	202
G01	06/20/95	56 59.9	167 42.3	0	0	960	4651	5611	960	0	960	6571
G02	06/20/95	56 59.1	167 5.3	0	187	2059	3930	6176	716	0	716	6892
G03	06/17/95	57 .3	166 28.0	0	307	999	3382	4688	307	0	307	4995
G04	06/17/95	57 .8	165 51.5	0	623	2727	3117	6467	234	0	234	6701
G05	06/14/95	57 .0	165 13.0	0	9423	48346	1639	59408	863	0	863	60271
G06	06/13/95	57 .1	164 36.9	0	14572	51729	0	66301	0	0	0	66301
G07	06/10/95	57 .2	164 1.7	0	753	75	75	904	75	0	75	979
G08	06/10/95	57 .8	163 23.5	0	79	0	0	79	0	0	0	79
G09	06/08/95	56 59.7	162 47.5	0	0	0	143	143	0	0	0	143
G10	06/18/95	57 .4	162 18.9	59	0	81	0	81	0	0	0	81
G10	06/18/95	56 52.8	162 9.3	66	0	0	77	77	0	0	0	77
G18	06/28/95	57 .5	168 21.4	0	0	4241	11308	15549	17390	0	17390	32939
G19	06/28/95	56 59.9	168 57.8	0	174	4165	9198	13536	569	0	569	14105
G20	06/29/95	56 59.2	169 34.6	0	846	8123	2538	11508	78	0	78	11586
G21	06/29/95	57 9.2	169 53.1	0	0	0	93	93	0	0	0	93
G21	06/29/95	56 59.4	170 10.6	0	0	79	316	395	0	0	0	395
G21	06/29/95	56 59.4	170 19.1	0	149	223	446	817	223	0	223	1040
G21	06/29/95	57 .8	170 .6	0	0	605	1209	1814	0	0	0	1814
G21	06/29/95	56 55.3	170 11.2	0	77	154	617	848	0	0	0	848

TABLE 10. Summary of crab density by tow for snow crab *(Chionoecetes opilio)*

STA-TION	DATE	N. LAT. DEG MIN	W. LON. DEG MIN	DEPTH[1] (FM)	MALES				FEMALES			GRAND TOTAL
					LARGE	MEDIUM	SMALL	TOTAL	LARGE	SMALL	TOTAL	
G22	07/06/95	56 58.8	170 47.4	0	0	64	0	64	0	0	0	64
G22	06/29/95	56 51.1	170 28.5	0	77	154	231	463	0	0	0	463
G23	07/04/95	57 .7	171 23.4	0	1139	2681	1072	4892	0	0	0	4892
G24	07/06/95	56 59.9	172 3.0	0	285	2708	3634	6627	11239	0	11239	17866
G25	07/06/95	56 59.6	172 39.8	0	282	1412	494	2188	0	0	0	2188
G26	07/18/95	57 .2	173 14.8	0	0	0	0	0	78	0	78	78
H01	06/19/95	57 19.8	167 42.2	0	2689	19327	6554	28570	1491	0	1491	30061
H02	06/19/95	57 19.6	167 6.3	0	1687	50619	13498	65805	25056	0	25056	90861
H03	06/17/95	57 20.3	166 28.7	0	240	12944	7431	20615	150	0	150	20765
H04	06/17/95	57 20.8	165 51.9	0	3448	75852	25859	105159	83	0	83	105242
H05	06/13/95	57 19.8	165 14.5	0	6444	49713	7365	63522	312	0	312	63834
H06	06/13/95	57 19.9	164 37.6	0	471	785	785	2040	78	0	78	2118
H07	06/11/95	57 20.0	164 1.6	0	0	153	229	382	0	0	0	382
H08	06/11/95	57 19.0	163 22.2	0	0	0	0	0	81	0	81	81
H09	06/08/95	57 19.4	162 46.5	0	0	0	75	75	0	0	0	75
H10	06/08/95	57 19.3	162 10.3	0	0	0	78	78	0	0	0	78
H10	06/20/95	57 20.8	162 18.1	50	0	79	0	79	0	0	0	79
H11	06/20/95	57 18.7	161 31.8	54	0	75	0	75	0	0	0	75
H11	06/20/95	57 20.6	161 42.2	48	0	71	0	71	0	0	0	71
H18	06/28/95	57 20.0	168 23.0	0	165	1980	8578	10723	1980	0	1980	12703
H19	06/27/95	57 29.3	168 44.9	0	557	1114	4535	6206	398	159	557	6763
H19	06/28/95	57 10.2	168 37.9	0	273	2186	12298	14758	21499	915	22414	37171
H19	06/28/95	57 19.6	168 58.8	0	229	76	382	687	0	0	0	687
H20	06/30/95	57 20.3	169 37.9	0	227	1587	2645	4458	378	151	529	4987
H20	06/28/95	57 10.7	169 18.9	0	0	2089	8744	10833	4101	464	4566	15399
H22	07/04/95	57 22.0	170 53.6	0	872	2397	1961	5230	799	291	1090	6320
H22	06/30/95	57 29.6	170 32.2	0	15989	6396	2132	24517	266	0	266	24783
H23	07/04/95	57 20.6	171 27.9	0	859	4485	3912	9255	477	0	477	9732
H24	07/06/95	57 19.5	172 4.9	0	3407	10074	8000	21481	185094	42417	227512	248993
H25	07/06/95	57 19.9	172 39.9	0	140	839	420	1399	2937	1119	4056	5455
H26	07/18/95	57 20.5	173 20.2	0	82	4207	0	4289	0	0	0	4289
I01	06/19/95	57 39.9	167 45.8	0	0	15470	14825	30295	6036	0	6036	36331
I02	06/19/95	57 39.3	167 8.1	0	0	17883	35078	52961	6883	0	6883	59844
I03	06/17/95	57 40.0	166 29.7	0	230	4978	9191	14399	306	0	306	14706
I04	06/17/95	57 39.8	165 52.8	0	267	5076	2672	8015	247	0	247	8263

TABLE 10. Summary of crab density by tow for snow crab *(Chionoecetes opilio)*

STA-TION	DATE	N. LAT. DEG MIN	W. LON. DEG MIN	DEPTH[1] (FM)	MALES				FEMALES			GRAND TOTAL
					LARGE	MEDIUM	SMALL	TOTAL	LARGE	SMALL	TOTAL	
I05	06/13/95	57 39.8	165 15.9	0	74	519	741	1333	148	0	148	1481
I06	06/13/95	57 40.0	164 36.8	0	0	0	168	168	252	0	252	420
I07	06/11/95	57 40.1	164 1.6	0	0	76	0	76	0	0	0	76
I11	06/21/95	57 40.9	161 40.0	51	0	77	0	77	0	0	0	77
I18	06/27/95	57 39.3	168 25.1	0	0	4765	14015	18781	8859	227	9086	27867
I19	06/27/95	57 49.5	168 44.1	0	1292	21962	17441	40695	396	79	476	41171
I19	06/27/95	57 40.3	169 4.7	0	1299	19050	9525	29874	1138	488	1626	31500
I20	06/30/95	57 41.2	169 39.1	0	638	5952	13179	19768	1883	1392	3275	23044
I20	06/27/95	57 30.6	169 21.7	0	158	6300	5513	11971	235	0	235	12206
I21	06/30/95	57 30.5	169 58.8	0	78	1708	4193	5979	932	621	1553	7532
I21	06/30/95	57 38.9	170 17.4	0	5603	3879	6465	15946	539	108	646	16592
I22	07/04/95	57 40.3	170 49.6	0	8271	9359	4353	21983	524	175	698	22682
I22	06/30/95	57 49.8	170 36.9	0	6473	4958	4683	16114	551	413	964	17078
I23	07/04/95	57 40.6	171 31.4	0	614	5015	5425	11054	921	512	1433	12487
I24	07/07/95	57 40.5	172 11.4	0	0	9294	15932	25226	115735	34040	149775	175001
I25	07/07/95	57 40.5	172 48.0	0	586	9774	22089	32449	142704	10770	153474	185923
I26	07/18/95	57 40.0	173 23.6	0	0	1732	0	1732	82	0	82	1815
J01	06/19/95	58 .0	167 48.0	0	0	32441	144738	177180	4641	0	4641	181820
J02	06/19/95	57 59.9	167 10.2	0	0	5578	6375	11953	161	0	161	12114
J03	06/17/95	57 59.9	166 31.0	0	1136	30680	19317	51133	232	0	232	51365
J04	06/17/95	58 .6	165 54.1	0	0	86	685	771	86	0	86	856
J05	06/13/95	57 59.7	165 15.3	0	0	0	72	72	0	0	0	72
J18	06/27/95	58 .2	168 26.1	0	0	65823	370256	436079	10271	0	10271	446350
J19	06/27/95	58 .3	169 3.6	0	583	15162	28574	44319	2314	231	2545	46864
J20	06/30/95	58 .2	169 42.2	0	0	1679	3817	5496	611	763	1374	6870
J20	06/27/95	57 50.3	169 21.2	0	656	6120	11146	17922	3206	1251	4457	22378
J21	06/30/95	57 50.2	170 2.0	0	460	1762	4059	6281	536	766	1302	7583
J21	06/30/95	57 59.4	170 20.2	0	10308	9234	4080	23622	643	1206	1850	25471
J22	07/03/95	58 .4	170 57.0	0	1594	3339	1670	6603	1877	1576	3453	10056
J23	07/04/95	58 .0	171 35.8	0	225	1952	4429	6605	1426	2252	3678	10283
J24	07/07/95	58 .7	172 13.8	0	306	7535	13429	21270	121171	60605	181777	203047
J25	07/07/95	57 59.2	172 52.1	0	4653	12044	20256	36953	61205	36723	97929	134882
J26	07/18/95	57 59.7	173 28.1	0	643	4504	5790	10937	313834	58844	372678	383616
K01	06/19/95	58 19.9	167 50.6	0	0	16154	100960	117113	363	0	363	117477
K02	06/19/95	58 19.8	167 11.9	0	0	10217	24084	34301	0	0	0	34301
K18	06/27/95	58 20.5	168 27.3	0	0	2020	44448	46469	468	0	468	46936

TABLE 10. Summary of crab density by tow for snow crab *(Chionoecetes opilio)*

STA-TION	DATE	N. LAT. DEG MIN	W. LON. DEG MIN	DEPTH[1] (FM)	MALES				FEMALES			GRAND TOTAL
					LARGE	MEDIUM	SMALL	TOTAL	LARGE	SMALL	TOTAL	
K19	06/27/95	58 20.0	169 7.3	0	0	553	3951	4504	316	237	553	5057
K20	07/01/95	58 19.8	169 44.5	0	0	304	4869	5173	2663	380	3043	8216
K21	07/01/95	58 19.9	170 23.6	0	4094	12283	9943	26320	1389	877	2266	28586
K22	07/03/95	58 20.0	171 1.7	0	3066	20696	12648	36410	2302	6907	9210	45620
K23	07/04/95	58 18.7	171 37.8	0	131	3981	5026	9138	1436	2807	4243	13380
K24	07/07/95	58 20.3	172 18.2	0	0	7687	20178	27865	98053	147079	245132	272997
K25	07/07/95	58 20.7	172 56.2	0	1566	19219	61204	81990	116311	89470	205781	287771
K26	07/12/95	58 19.6	173 33.7	0	3278	4916	3427	11620	2635	958	3593	15214
K27	07/18/95	58 20.1	174 18.0	0	209	418	976	1603	10527	7018	17545	19149
L01	06/19/95	58 40.0	167 52.9	0	0	0	382	382	76	0	76	458
L18	06/27/95	58 40.1	168 29.9	0	0	6262	68191	74454	6313	471	6784	81237
L20	07/01/95	58 39.9	169 48.6	0	0	6551	24567	31118	5244	1851	7095	38212
L21	07/01/95	58 40.3	170 26.0	0	508	7017	17928	25454	3487	2906	6392	31846
L22	07/03/95	58 39.3	171 3.4	0	0	12276	33320	45596	7583	7000	14584	60180
L23	07/03/95	58 40.2	171 42.3	0	285	5699	6411	12394	1464	1952	3416	15810
L24	07/07/95	58 40.1	172 21.8	0	0	2353	5209	7562	5209	5209	10419	17981
L25	07/07/95	58 38.8	172 58.5	0	1747	9654	28633	40034	36133	45862	81995	122029
L26	07/12/95	58 39.4	173 37.5	0	1702	1470	9595	12768	120876	54076	174952	187720
L27	07/12/95	58 40.7	174 16.1	0	148	74	0	222	0	0	0	222
M01	06/25/95	59 1.1	167 53.1	0	0	0	1403	1403	221	0	221	1624
M18	06/26/95	59 .4	168 32.6	0	0	1434	30593	32027	246	0	246	32273
M19	06/26/95	59 .4	169 10.9	0	0	6974	174354	181329	11037	480	11517	192845
M20	07/01/95	59 .9	169 50.9	0	0	0	165429	165429	238225	23161	261386	426815
M21	07/01/95	59 .3	170 28.8	0	152	3522	28373	32047	4862	4488	9351	41398
M22	07/03/95	58 59.4	171 7.0	0	3276	14196	64429	81901	15288	13104	28392	110293
M23	07/03/95	59 .3	171 46.3	0	0	5563	18543	24106	9480	1815	11296	35402
M24	07/07/95	59 .7	172 25.7	0	315	2047	5590	7952	1496	945	2441	10393
M25	07/07/95	58 59.7	173 4.0	0	2059	16398	25996	44452	79562	106998	186560	231012
M26	07/12/95	58 59.6	173 42.3	0	2558	3408	8787	14753	39553	5494	45047	59800
M27	07/12/95	59 1.0	174 23.6	0	5160	2033	2346	9539	626	469	1095	10634
M28	07/19/95	59 .4	175 .0	0	248	0	0	248	0	0	0	248
M29	07/19/95	58 59.9	175 44.0	0	0	0	70	70	0	70	70	139
M30	07/22/95	59 .7	176 18.6	0	0	0	202	202	0	101	101	303
N18	06/26/95	59 19.9	168 34.6	0	0	0	344182	344182	18833	0	18833	363015
N19	06/26/95	59 19.3	169 14.1	0	0	1409	122595	124005	2692	299	2992	126996
N20	07/01/95	59 19.7	169 53.2	0	0	338	18261	18599	17397	4702	22099	40698

TABLE 10. Summary of crab density by tow for snow crab *(Chionoecetes opilio)*

STA-TION	DATE	N. LAT. DEG MIN	W. LON. DEG MIN	DEPTH[1] (FM)	MALES				FEMALES			GRAND TOTAL
					LARGE	MEDIUM	SMALL	TOTAL	LARGE	SMALL	TOTAL	
N21	07/01/95	59 20.3	170 31.4	0	0	1757	46114	47870	14661	3007	17669	65539
N22	07/03/95	59 19.5	171 10.6	0	0	4859	106909	111768	43718	16192	59910	171679
N23	07/03/95	59 20.8	171 49.5	0	0	9640	64853	74494	93939	22103	116042	190536
N24	07/08/95	59 20.0	172 30.1	0	82	734	1795	2611	326	816	1142	3753
N25	07/08/95	59 20.8	173 9.1	0	2020	21793	19610	43423	17411	32210	49620	93043
N25	07/08/95	59 29.4	172 54.2	0	4045	16555	55723	76323	12517	5563	18080	94404
N26	07/12/95	59 20.0	173 47.7	0	5361	3829	255	9445	300104	84812	384916	394361
N27	07/12/95	59 19.9	174 26.6	0	3106	4077	7377	14559	14004	5602	19606	34165
N28	07/19/95	59 20.3	175 5.6	0	4803	3622	8110	16534	75931	31567	107497	124031
N29	07/19/95	59 19.7	175 45.0	0	68	68	135	270	68	0	68	338
N30	07/22/95	59 21.3	176 23.2	0	432	0	216	647	144	0	144	791
N31	07/22/95	59 19.3	177 3.8	0	0	0	247	247	82	165	247	495
O18	06/26/95	59 40.5	168 35.6	0	0	1297	37603	38900	0	0	0	38900
O19	06/26/95	59 40.2	169 16.3	0	0	2366	73347	75713	21508	8138	29647	105360
O20	07/01/95	59 40.1	169 57.8	0	0	2779	86149	88928	16657	1388	18045	106974
O21	07/01/95	59 40.1	170 34.6	0	0	739	35114	35853	21012	6504	27516	63369
O22	07/03/95	59 40.0	171 14.2	0	0	0	186136	186136	60129	42949	103078	289213
O23	07/03/95	59 40.4	171 53.5	0	0	12066	104974	117040	121092	50209	171301	288340
O24	07/08/95	59 40.4	172 34.0	0	0	52486	262429	314915	21204	15145	36349	351264
O25	07/11/95	59 30.3	173 29.0	0	730	4090	27274	32094	7140	20321	27461	59555
O25	07/08/95	59 39.6	173 13.1	0	851	1178	2291	4320	393	982	1375	5695
O25	07/08/95	59 49.6	172 55.8	0	488	6863	16055	23405	8714	1494	10208	33614
O26	07/11/95	59 39.6	173 51.9	0	1487	9518	6841	17846	5744	1863	7607	25453
O27	07/12/95	59 40.1	174 26.7	0	2086	15172	17400	34659	44435	38496	82930	117589
O28	07/19/95	59 40.3	175 5.8	0	4599	7453	20139	32191	316813	224576	541389	573581
O29	07/19/95	59 39.9	175 52.1	0	755	275	618	1648	11149	11149	22298	23946
O30	07/22/95	59 40.5	176 31.8	0	484	138	69	691	484	622	1105	1796
O31	07/22/95	59 39.3	177 7.7	0	0	0	665	665	166	499	665	1329
P18	06/26/95	60 .1	168 37.8	0	0	78	1242	1320	155	155	311	1631
P19	06/26/95	59 57.6	169 19.0	0	0	0	175886	175886	11664	4666	16330	192216
P20	07/02/95	60 1.5	169 59.5	0	0	751	56346	57097	10756	3114	13870	70967
P21	07/02/95	59 59.6	170 35.3	0	0	1757	107169	108925	43915	17566	61481	170406
P22	07/02/95	60 .1	171 18.1	0	0	0	72900	72900	60323	74883	135206	208106
P23	07/08/95	59 50.3	172 14.5	0	0	2323	127777	130101	34854	30207	65061	195161
P23	07/03/95	60 .7	171 57.8	0	0	1570	29052	30622	9986	1362	11348	41970
P24	07/08/95	60 .4	172 38.3	0	0	11517	124386	135903	4607	99060	103668	239571

TABLE 10. Summary of crab density by tow for snow crab *(Chionoecetes opilio)*

STA-TION	DATE	N. LAT. DEG MIN	W. LON. DEG MIN	DEPTH[1] (FM)	MALES				FEMALES			GRAND TOTAL
					LARGE	MEDIUM	SMALL	TOTAL	LARGE	SMALL	TOTAL	
P25	07/08/95	60 .3	173 16.3	0	0	2635	87467	90102	7789	229763	237551	327654
P25	07/11/95	59 50.0	173 34.4	0	0	0	965	965	0	161	161	1126
P26	07/11/95	60 7.7	173 44.7	0	0	38933	214129	253062	3872	19358	23229	276291
P26	07/11/95	60 .4	173 56.7	0	0	14664	51992	66656	5668	3370	9038	75694
P27	07/12/95	60 .8	174 35.9	0	295	13417	85226	98938	73402	9371	82773	181711
P27	07/12/95	59 51.1	174 15.2	0	144	6879	28201	35224	17218	1377	18596	53820
P28	07/19/95	60 .2	175 15.8	0	1903	5190	26296	33389	11309	21362	32671	66060
P29	07/19/95	59 59.1	175 55.3	0	8246	8731	2264	19241	16081	8219	24300	43541
P30	07/20/95	59 59.4	176 42.8	0	1521	609	685	2815	10184	13936	24119	26934
P31	07/21/95	59 59.4	177 13.0	0	342	86	171	599	428	86	514	1113
P32	07/21/95	60 .1	177 57.7	0	218	73	218	508	363	73	436	944
Q18	06/26/95	60 20.2	168 39.5	0	0	0	233	233	0	0	0	233
Q19	06/26/95	60 20.0	169 20.1	0	0	0	336435	336435	75184	136698	211882	548316
Q20	07/02/95	60 19.6	170 3.3	0	0	2163	74637	76800	24874	9733	34607	111407
Q21	07/02/95	60 20.1	170 40.9	0	0	1028	54496	55524	23649	26734	50383	105907
Q22	07/02/95	60 19.4	171 21.7	0	0	4621	64699	69321	15715	32355	48070	117391
Q23	07/08/95	60 10.1	172 19.5	0	0	0	1943	1943	114	1943	2057	4001
Q23	07/02/95	60 20.7	172 3.3	0	0	626	11395	12021	1376	217	1593	13614
Q25	07/09/95	60 18.4	173 23.9	0	0	237	3951	4188	158	5136	5294	9481
Q26	07/11/95	60 19.7	174 3.3	0	0	17292	111162	128454	51876	17292	69168	197621
Q27	07/11/95	60 20.8	174 43.8	0	786	18964	49436	69187	146390	98912	245302	314488
Q27	07/11/95	60 10.9	174 22.6	0	0	27617	135098	162714	41625	19717	61342	224057
Q28	07/20/95	60 20.2	175 23.3	0	0	7275	140041	147316	284009	143122	427131	574447
Q29	07/20/95	60 20.1	176 2.2	0	1751	4631	90771	97153	55878	30088	85967	183120
Q30	07/20/95	60 19.9	176 43.7	0	4464	1686	3372	9522	16369	11692	28062	37584
Q31	07/21/95	60 19.7	177 23.2	0	1620	567	567	2754	0	81	81	2835
R22	07/02/95	60 40.7	171 26.5	0	0	0	118329	118329	28846	11878	40723	159052
R23	07/02/95	60 40.8	172 7.2	0	0	2876	69025	71901	24486	6833	31320	103221
R24	07/09/95	60 40.3	172 46.8	0	0	0	76	76	0	0	0	76
R25	07/09/95	60 39.5	173 28.0	0	0	0	28486	28486	2102	15479	17581	46067
R26	07/09/95	60 40.3	174 6.7	0	0	2092	65539	67631	29164	55411	84575	152205
R27	07/09/95	60 40.6	174 47.6	0	0	2961	113504	116465	95054	181054	276108	392573
R28	07/11/95	60 40.4	175 27.1	0	0	1984	158321	160305	108769	160978	269747	430052
R29	07/20/95	60 40.4	176 12.1	0	1096	7593	37068	45758	19518	4880	24398	70156
R30	07/20/95	60 40.2	176 48.8	0	3066	2683	17056	22805	16174	37200	53373	76178
R31	07/21/95	60 39.4	177 29.9	0	1608	804	4343	6755	3297	161	3458	10214

TABLE 10. Summary of crab density by tow for snow crab *(Chionoecetes opilio)*

STA-TION	DATE	N. LAT. DEG MIN	W. LON. DEG MIN	DEPTH[1] (FM)	MALES				FEMALES			GRAND TOTAL
					LARGE	MEDIUM	SMALL	TOTAL	LARGE	SMALL	TOTAL	
R32	07/21/95	60 40.8	178 11.4	0	842	0	491	1333	210	491	701	2034
S22	07/02/95	60 59.5	171 29.1	0	0	0	81993	81993	20579	7431	28010	110003
S23	07/02/95	61 .2	172 8.2	0	0	0	81306	81306	26161	10464	36626	117931
S24	07/09/95	61 .3	172 48.8	0	0	0	331278	331278	91053	78637	169690	500968
S25	07/09/95	61 .0	173 30.6	0	0	3150	144887	148037	22050	129150	151200	299237
S26	07/10/95	61 9.3	174 25.0	0	0	0	254559	254559	53591	160774	214366	468925
S26	07/10/95	60 59.9	174 10.0	0	0	0	90966	90966	41353	102005	143358	234324
S27	07/09/95	60 59.6	174 52.7	0	0	5327	103343	108670	75808	136454	212262	320932
S28	07/11/95	61 .2	175 32.2	0	0	731	41668	42399	13478	36888	50366	92765
S29	07/20/95	61 .9	176 16.9	0	253	1768	39151	41172	1556	819	2375	43546
S30	07/20/95	60 59.6	176 58.3	0	1033	2379	21059	24471	20359	2088	22447	46918
S31	07/21/95	60 59.9	177 37.7	0	2211	2702	12856	17769	5241	2293	7533	25302
T25	07/09/95	61 20.2	173 35.0	0	0	0	67087	67087	6389	46322	52711	119798
T26	07/10/95	61 19.8	174 19.8	0	0	0	253592	253592	35504	136943	172447	426040
T27	07/10/95	61 20.0	174 59.8	0	0	1139	127549	128688	58897	227175	286072	414760
T28	07/11/95	61 20.0	175 39.2	0	0	0	109255	109255	58496	131615	190111	299366
T29	07/20/95	61 20.4	176 17.5	0	0	735	119008	119743	52876	58541	111416	231160
T30	07/20/95	61 19.3	176 57.1	0	708	354	1345	2408	1133	354	1487	3895
U25	07/09/95	61 41.0	173 39.8	0	0	0	228469	228469	20308	314773	335081	563550
U27	07/10/95	61 40.3	175 4.4	0	0	3253	216352	219605	49158	230665	279823	499429
U28	07/10/95	61 40.6	175 46.9	0	0	0	66240	66240	23286	98965	122251	188491
U29	07/20/95	61 40.1	176 27.8	0	0	0	93635	93635	43397	157676	201074	294708
V25	07/10/95	61 59.8	173 45.2	0	0	0	124898	124898	17356	270755	288111	413009
V26	07/10/95	62 .2	174 31.2	0	0	0	192935	192935	36750	156185	192935	385870
V27	07/10/95	61 59.1	175 10.2	0	0	958	118805	119763	20960	157199	178159	297922
V28	07/10/95	62 .1	175 48.8	0	0	626	61999	62625	29092	78184	107276	169901

NOTE: Minimum carapace widths used are:
LARGE > 4.00"; MEDIUM > 3.10".

[1] Depth information had not been validated when this document was published.

TABLE 11. Summary of crab density by tow for hair crab *(Erimacrus isenbeckii)*

STA-TION	DATE	N. LAT. DEG MIN	W. LON. DEG MIN	DEPTH[1] (FM)	MALES				FEMALES			GRAND TOTAL
					LARGE	MEDIUM	SMALL	TOTAL	LARGE	SMALL	TOTAL	
C09	06/09/95	55 40.0	162 51.0	0	139	0	0	139	0	0	0	139
D10	06/09/95	55 59.1	162 16.2	0	76	0	0	76	0	76	76	152
D10	06/10/95	56 .4	162 21.7	72	0	0	0	0	78	0	78	78
D10	06/10/95	55 53.1	162 11.9	43	243	0	0	243	0	0	0	243
E10	06/09/95	56 19.2	162 13.5	0	0	0	0	0	80	0	80	80
E20	06/29/95	56 26.0	169 25.7	0	85	0	0	85	0	0	0	85
F09	06/08/95	56 40.4	162 46.8	0	75	0	0	75	0	0	0	75
F10	06/08/95	56 39.2	162 10.1	0	78	0	0	78	78	0	78	156
F10	06/17/95	56 39.3	162 10.3	73	76	0	0	76	0	0	0	76
F10	06/17/95	56 40.7	162 21.1	67	76	0	0	76	0	0	0	76
F12	06/06/95	56 40.5	160 59.0	0	161	0	0	161	0	0	0	161
F12	06/16/95	56 33.3	160 57.6	66	83	0	0	83	0	0	0	83
F13	06/14/95	56 41.1	160 33.3	62	153	76	0	229	0	0	0	229
F19	06/28/95	56 49.7	168 36.7	0	79	0	0	79	0	0	0	79
F20	06/29/95	56 40.9	169 33.9	0	1031	79	0	1110	0	0	0	1110
F21	06/29/95	56 49.8	169 52.6	0	1941	139	0	2080	0	0	0	2080
G01	06/20/95	56 59.9	167 42.3	0	148	0	0	148	0	74	74	221
G03	06/17/95	57 .3	166 28.0	0	77	0	0	77	0	0	0	77
G10	06/18/95	57 .4	162 18.9	59	162	0	0	162	0	0	0	162
G10	06/18/95	56 52.8	162 9.3	66	77	0	0	77	0	0	0	77
G11	06/18/95	56 58.5	161 32.8	67	82	0	0	82	82	0	82	164
G13	06/19/95	56 52.4	160 22.0	63	82	0	0	82	0	0	0	82
G13	06/19/95	56 58.5	160 20.4	61	0	70	0	70	0	0	0	70
G20	06/29/95	56 59.2	169 34.6	0	1255	314	78	1648	78	0	78	1726
G21	06/29/95	57 9.2	169 53.1	0	1582	744	0	2326	0	0	0	2326
G21	06/29/95	56 59.4	170 10.6	0	1343	0	0	1343	0	0	0	1343
G21	06/29/95	56 59.4	170 19.1	0	1561	74	0	1635	0	0	0	1635
G21	06/29/95	56 55.3	170 11.2	0	308	0	0	308	0	0	0	308
G21	06/29/95	57 .8	170 .6	0	5365	76	0	5441	76	0	76	5516
G21	06/30/95	57 5.0	170 7.7	0	4114	1371	0	5485	0	72	72	5557
G22	06/30/95	57 6.4	170 27.9	0	7311	1462	0	8773	0	0	0	8773
H01	06/19/95	57 19.8	167 42.2	0	75	0	0	75	0	0	0	75
H09	06/08/95	57 19.4	162 46.5	0	75	0	0	75	0	0	0	75
H10	06/08/95	57 19.3	162 10.3	0	78	0	0	78	0	0	0	78
H11	06/06/95	57 20.1	161 32.3	0	78	0	0	78	0	0	0	78
H11	06/20/95	57 18.7	161 31.8	54	75	0	0	75	0	0	0	75

TABLE 11. Summary of crab density by tow for hair crab *(Erimacrus isenbeckii)*

STA-TION	DATE	N. LAT. DEG MIN	W. LON. DEG MIN	DEPTH[1] (FM)	MALES				FEMALES			GRAND TOTAL
					LARGE	MEDIUM	SMALL	TOTAL	LARGE	SMALL	TOTAL	
H12	06/19/95	57 13.0	160 54.1	64	0	0	0	0	72	0	72	72
H13	06/05/95	57 19.6	160 18.4	0	75	0	0	75	0	0	0	75
H13	06/19/95	57 13.8	160 17.1	60	196	0	0	196	0	0	0	196
H13	06/19/95	57 18.4	160 17.0	59	79	0	0	79	0	0	0	79
H18	06/28/95	57 20.0	168 23.0	0	247	0	0	247	0	0	0	247
H19	06/27/95	57 29.3	168 44.9	0	398	159	0	557	0	80	80	637
H19	06/28/95	57 19.6	168 58.8	0	5496	305	153	5954	153	0	153	6107
H20	06/30/95	57 20.3	169 37.9	0	1133	151	0	1285	0	0	0	1285
H21	06/30/95	57 21.4	170 13.4	0	375	0	0	375	0	0	0	375
H22	06/30/95	57 29.6	170 32.2	0	133	0	0	133	0	0	0	133
I07	06/11/95	57 40.1	164 1.6	0	76	0	0	76	0	0	0	76
I12	06/21/95	57 40.9	161 3.2	53	0	63	0	63	0	0	0	63
I12	06/21/95	57 33.4	160 50.7	58	82	0	0	82	82	0	82	164
I13	06/22/95	57 33.5	160 14.4	54	0	76	0	76	0	0	0	76
I18	06/27/95	57 39.3	168 25.1	0	232	77	0	310	0	77	77	387
I19	06/27/95	57 40.3	169 4.7	0	163	0	0	163	0	0	0	163
I20	06/30/95	57 41.2	169 39.1	0	82	328	0	409	0	0	0	409
I20	06/27/95	57 30.6	169 21.7	0	863	78	0	942	0	0	0	942
I21	06/30/95	57 30.5	169 58.8	0	388	233	0	621	0	0	0	621
I21	06/30/95	57 38.9	170 17.4	0	215	0	0	215	0	0	0	215
J18	06/27/95	58 .2	168 26.1	0	158	0	79	237	0	0	0	237
J19	06/27/95	58 .3	169 3.6	0	77	77	0	154	0	0	0	154
J20	06/27/95	57 50.3	169 21.2	0	391	313	0	704	78	0	78	782
J21	06/30/95	57 50.2	170 2.0	0	77	0	0	77	0	0	0	77
K02	06/19/95	58 19.8	167 11.9	0	77	0	0	77	0	0	0	77
K03	06/18/95	58 19.6	166 33.5	0	153	76	0	229	0	0	0	229
K04	06/18/95	58 19.6	165 55.9	0	79	0	0	79	0	0	0	79
L01	06/19/95	58 40.0	167 52.9	0	153	0	0	153	0	0	0	153
L02	06/19/95	58 40.1	167 13.9	0	0	152	0	152	0	0	0	152
L19	06/27/95	58 39.6	169 9.4	0	0	94	0	94	0	94	94	188
L20	07/01/95	58 39.9	169 48.6	0	0	77	0	77	0	0	0	77
L21	07/01/95	58 40.3	170 26.0	0	0	73	0	73	0	0	0	73
M01	06/25/95	59 1.1	167 53.1	0	0	369	74	443	0	0	0	443
M18	06/26/95	59 .4	168 32.6	0	0	819	164	983	0	0	0	983
M19	06/26/95	59 .4	169 10.9	0	0	258	0	258	258	0	258	516
M20	07/01/95	59 .9	169 50.9	0	0	0	0	0	85	0	85	85

TABLE 11. Summary of crab density by tow for hair crab *(Erimacrus isenbeckii)*

STATION	DATE	N. LAT. DEG	N. LAT. MIN	W. LON. DEG	W. LON. MIN	DEPTH[1] (FM)	MALES LARGE	MALES MEDIUM	MALES SMALL	MALES TOTAL	FEMALES LARGE	FEMALES SMALL	FEMALES TOTAL	GRAND TOTAL
M21	07/01/95	59	.3	170	28.8	0	76	0	0	76	76	76	152	228
N01	06/25/95	59	19.8	167	54.7	0	0	236	0	236	0	0	0	236
N18	06/26/95	59	19.9	168	34.6	0	81	2511	648	3240	0	162	162	3402
N19	06/26/95	59	19.3	169	14.1	0	0	0	163	163	0	163	163	326
N21	07/01/95	59	20.3	170	31.4	0	0	0	76	76	0	0	0	76
O01	06/25/95	59	39.9	167	57.0	0	0	497	83	580	0	0	0	580
O18	06/26/95	59	40.5	168	35.6	0	0	816	653	1469	0	0	0	1469
O19	06/26/95	59	40.2	169	16.3	0	0	571	0	571	163	0	163	734
P18	06/26/95	60	.1	168	37.8	0	0	155	78	233	0	78	78	311
P19	06/26/95	59	57.6	169	19.0	0	0	243	0	243	81	0	81	324
P23	07/08/95	59	50.3	172	14.5	0	0	0	76	76	0	0	0	76
P25	07/08/95	60	9.6	173	1.6	0	0	160	0	160	0	80	80	240
Q19	06/26/95	60	20.0	169	20.1	0	0	81	0	81	0	0	0	81
R23	07/02/95	60	40.8	172	7.2	0	71	142	0	212	0	0	0	212
R24	07/09/95	60	40.3	172	46.8	0	0	76	0	76	0	0	0	76

NOTE: Minimum carapace widths used are:
LARGE > 3.25"; MEDIUM > 2.50".

[1] Depth information had not been validated when this document was published.