Fishery Management Report No. 05-22

The 2004 Triennial St. Matthew Island Blue King Crab Survey and Comparisons to the 1995, 1998, and 2001 Surveys

by

Leslie J. Watson

April 2005

Alaska Department of Fish and Game **Divisions of Sport Fish and Commercial Fisheries**

Symbols and Abbreviations

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Weights and measures (metric)

centimeter	cm
deciliter	dL
gram	g
hectare	ha
kilogram	kg
kilometer	km
liter	L
meter	m
milliliter	mL
millimeter	mm

Weights and measures (English)

cubic feet per second	ft^3/s
foot	ft
gallon	gal
inch	in
mile	mi
nautical mile	nmi
ounce	oz
pound	lb
quart	qt
yard	yd

Time and temperature

day	d
degrees Celsius	°C
degrees Fahrenheit	°F
degrees kelvin	K
hour	h
minute	min
second	s

Physics and chemistry

all atomic symbols	
alternating current	AC
ampere	A
calorie	cal
direct current	DC
hertz	Hz
horsepower	hp
hydrogen ion activity (negative log of)	pH
parts per million	ppm
parts per thousand	ppt, ‰
volts	V
watts	W

General

Alaska Administrative Code	AAC
all commonly accepted abbreviations	e.g., Mr., Mrs., AM, PM, etc.
all commonly accepted professional titles	e.g., Dr., Ph.D., R.N., etc.
at	@
compass directions:	
east	E
north	N
south	S
west	W
copyright	©
corporate suffixes:	
Company	Co.
Corporation	Corp.
Incorporated	Inc.
Limited	Ltd.
District of Columbia	D.C.
et alii (and others)	et al.
et cetera (and so forth)	etc.
exempli gratia (for example)	e.g.
Federal Information Code	FIC
id est (that is)	i.e.
latitude or longitude	lat. or long.
monetary symbols (U.S.)	$, ¢
months (tables and figures): first three letters	Jan,...,Dec
registered trademark	®
trademark	™
United States (adjective)	U.S.
United States of America (noun)	USA
U.S.C.	United States Code
U.S. state	use two-letter abbreviations (e.g., AK, WA)

Measures (fisheries)

fork length	FL
mideye-to-fork	MEF
mideye-to-tail-fork	METF
standard length	SL
total length	TL

Mathematics, statistics

all standard mathematical signs, symbols and abbreviations	
alternate hypothesis	H_A
base of natural logarithm	e
catch per unit effort	CPUE
coefficient of variation	CV
common test statistics	(F, t, χ^2, etc.)
confidence interval	CI
correlation coefficient (multiple)	R
correlation coefficient (simple)	r
covariance	cov
degree (angular)	°
degrees of freedom	df
expected value	E
greater than	>
greater than or equal to	≥
harvest per unit effort	HPUE
less than	<
less than or equal to	≤
logarithm (natural)	ln
logarithm (base 10)	log
logarithm (specify base)	$\log_2$, etc.
minute (angular)	'
not significant	NS
null hypothesis	H_O
percent	%
probability	P
probability of a type I error (rejection of the null hypothesis when true)	α
probability of a type II error (acceptance of the null hypothesis when false)	β
second (angular)	"
standard deviation	SD
standard error	SE
variance	
population	Var
sample	var

FISHERY MANAGEMENT REPORT NO. 05-22

THE 2004 TRIENNIAL ST. MATTHEW ISLAND BLUE KING CRAB SURVEY AND COMPARISONS TO THE 1995, 1998, AND 2001 SURVEYS

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FOREWORD

The Alaska Department of Fish and Game (ADF&G) has performed trienniel pot surveys on St. Matthew Island blue king crabs since 1995 (Blau 1996, Blau and Watson 1999a, Watson and Burt 2002). A special nearshore pot survey was also conducted in 1999 (Blau 2000). Originally funded under the Bering Sea Test Fishery (BSTF) project, the surveys have received funding from federal grants for Bering Sea Crab Research since 2001. Operational plans for the five St. Matthew Island surveys are in Watson et al. (1995), Blau and Watson (1998 and 1999b), Watson and Pengilly (2001), and Watson (2004).

ABSTRACT

A survey for blue king crabs *Paralithodes platypus* was conducted in the St. Matthew Island area between 59°30' - 60°45' N. latitude and 172°00' - 173°55' W. longitude in July and August 2004 aboard the FV *Sultan*. A total of 176 stations and 702 pots were fished for a total catch of 1,715 blue king crabs. Fifty percent were legal-sized males, 33% were sublegal-sized males, 10% were mature females and 7% were immature females. Depth, location, date, and substrate type were recorded for each pot set and retrieved. Pot catches were enumerated to species; for blue king crabs, shell age, carapace length (CL), legal size status, and reproductive condition of females were recorded. Comparative catches by sex and size groupings for 96 stations that were fished in common during the 1995, 1998, 2001, and 2004 surveys are discussed. Results from the 2004 survey show that the blue king crab stock in the survey area is at its lowest level since the stock was declared overfished in 1999. A total of 2,525 snow crabs *Chionoecetes opilio*, 5 Tanner crabs *C. bairdi,* 5 Tanner x snow hybrid crabs and 2 hair crabs *Erimacrus isenbeckii* were captured. Snow crab shell age, carapace width (CW), legal size status, and the reproductive condition of females were recorded. Comparative snow crab catches by sex and size groupings for 96 stations that were fished in common during the 1995, 1998, 2001, and 2004 surveys are discussed.

Keywords: blue king crab; *Paralithodes platypus*; snow crab; *Chionoecetes opilio*; St. Matthew Island, Alaska; pot survey; spatial distribution; abundance; catch composition.

INTRODUCTION

The St. Matthew Island Section for blue king crabs *Paralithodes platypus* is within the Northern District of the Bering Sea king crab registration area 'Q' and includes the waters north of the latitude of Cape Newenham (58°39' N. latitude) and south of the latitude of Cape Romanzof (61°49' N. latitude) (Bowers et al. 2003). Commercial fisheries for blue king crabs in the St. Matthew Island Section occurred from the 1977 through the 1998 seasons, with a peak harvest of 9.5 million pounds landed in 1983. The St. Matthew Island blue king crab fishery was declared overfished in 1999 due to an estimated stock size lower than the minimum stock size threshold specified in the Fishery Management Plan for Bering Sea/Aleutian Islands King and Tanner Crabs (NPFMC 1998). The fishery has remained closed through the 2004 season because stock levels have been below the threshold specified in the harvest strategy or have been too low to provide the minimum harvest level specified in state regulation.

Pot surveys with the primary objective of determining the distribution and relative abundance of male and female blue king crabs in the St. Matthew Island area have been conducted by the Alaska Department of Fish and Game (ADF&G) on a triennial basis since 1995 (Blau 1996, Blau and Watson 1999a, Watson and Burt 2002). The pot surveys are intended to augment data on St. Matthew Island blue king crab abundance that is supplied annually by summer trawl surveys performed by the National Marine Fisheries Service (NMFS) (Rugolo et al. 2003). Data from the NMFS annual trawl surveys are used to estimate population abundance of St. Matthew Island blue king crabs and to determine harvest levels for the subsequent fall commercial fishery.

However, population estimates using the NMFS trawl survey data are questionable due to trawl survey station layout, unsuitable trawl habitat surrounding St. Matthew Island, and seasonality effects as discussed in Pengilly and Watson (2004).

Size frequency data from triennial ADF&G pot surveys have been considered in discussions of stock condition since 2001. However, the short time series of relative abundance information from the 1995, 1998 and 2001 surveys preclude analyses of stock trends (Vining and Zheng 2004). The 2004 triennial St. Matthew Island blue king crab pot survey was necessary for assessing the stock condition relative to rebuilding from an overfished condition and to sustain the time series of data that is needed for incorporation into multiple-year stock assessment models.

This report describes the location, design, methods, and results for the fourth triennial survey of the St. Matthew Island blue king crab stock, with comparisons to the 1995, 1998, and 2001 surveys and comments on population trends. Comparative data on snow crabs captured during the four triennial surveys are also presented.

TERMS

Terms for blue king crabs and snow crabs relative to sex and size groupings used in this report are defined as follows:

Blue King Crabs

- Legal Male – Carapace width ≥ 5.5 inches (140 mm) **outside** lateral spines.
- Legal Male Recruits – New-shell, legal-sized males <134-mm CL.
- Legal Male Postrecruit – All legal-sized old-shell males and all new-shell males ≥134-mm CL.
- Sublegal Males – Carapace width <5.5 inches (140 mm) outside lateral spines.
- Sublegal Males <105-mm CL – All sublegal-sized males <105-mm CL.
- Sublegal Male Prerecruit Ones – All sublegal-sized males ≥105-mm CL.
- Females: immature (no external evidence of past or present ovigerity); mature (external embryos or empty egg cases present).

Snow Crabs

- Legal Males: ≥ 79 mm CW **outside** lateral spines.
- Sublegal Males: <3.1-inches (79 mm) CW **outside** lateral spines.
- Females: Immature and mature as identified by shape of the abdominal flap (Jadamec et al. 1999).

Tanner Crabs

- Legal Males: ≥ 5.5 inches (140 mm) CW outside lateral spines.
- Sublegal Males: <5.5 inches CW outside lateral spines.
- Females: Immature and mature as identified by shape of the abdominal flap (Jadamec et al. 1999).

Hair Crabs

- Legal Males: ≥ 3.25 inches (83 mm) CW.
- Sublegal Males: <3.25 inches CW.
- Females: same as for female blue king crabs.

OBJECTIVES

Prioritized objectives of the 2004 survey were to:

1. Obtain a relative stock abundance index (pot survey catch per unit effort) of blue king crab in the waters south of St. Matthew Island.
2. Describe the blue king crab component residing in shallow waters from 11 fathoms to 20 fathoms (20 m to 37 m) relative to sex, size, and reproductive characteristics.
3. Characterize the substrate at each survey station and sample water temperatures across the depth range fished within the survey area.
4. Collect blue king crab stomachs needed for an independent food habits study.
5. Describe overall species composition in the survey area, with emphasis on snow crab distribution and relative abundance.

METHODS

The 30-day survey was conducted aboard the chartered 39.6-m (130-ft) vessel, FV *Sultan* from July 23 to August 21, 2004 in the St. Matthew Island area. The 2004 survey station grid was located between 59°30'-60°30' N. latitude and 172°00' - 173°55' W. longitude and encompassed 2,850 square nautical miles (nmi^2) (Figure 1). The charter began and ended in Dutch Harbor, with a captain, engineer, and three crewmen. Department staff were L. Watson (crew leader), K. Gravel and S. Byersdorfer (fishery biologists), and K. Phillips and A. Gilson (fishery technicians).

SURVEY DESIGN

Standard Offshore Area

The 2004 standard offshore survey area and station array was based on the survey grid established for the 1995 ADF&G survey, which was designed to cover areas not surveyed by the NMFS annual eastern Bering Sea trawl survey due to untrawlable substrate. The 1995 survey area was determined from the geographic distribution of historic blue king crab fishery effort and the distribution and density of blue king crabs in historic NMFS trawl surveys (Watson et al. 1995). Two geographic strata with different densities of survey stations were defined: a double-station density stratum directly south of St. Matthew Island (Stratum 2), and a single-station density (Stratum 1) south of Stratum 2 (Figure 1). Station layout in Stratum 2 was based on a

grid in which stations are spaced 5 nmi north-to-south and east-to-west and overlaid with another 5 X 5 nmi grid offset by 2.5 nmi north-to-south and east-to-west. Stratum 2 has historically produced the highest catches of mature females and legal males and contains the areas of highest fishery effort in historic fisheries. Station layout in Stratum 1 was based on a single 5 X 5 nmi grid. Each station in Stratums 1 and 2 consisted of four rectangular king crab pots set 0.125 nmi apart and arrayed either north-to-south or east-to-west, depending on wind conditions.

Shallow-Waters Area

Prior to the shallow-water surveys conducted by ADF&G in August 1998 and 1999 neither NMFS nor the ADF&G pot surveys systematically sampled the shallow-water ($\leq$ 20 fathoms) habitat in the St. Matthew area, resulting in the non-assessment of ovigerous female crabs that were believed to reside in the shallows. Ten shallow-water stations were established near the south shore of St. Matthew Island for sampling during the 2004 survey (Figure 1). Each station in the new 'Stratum 3' was arrayed 2 nmi from adjacent stations and each station consisted of four king crab pots set in a line perpendicular to shore and spaced at 3-fathom intervals to sample the 11-20 fathom depth range.

A complement of 80 identical king crab pots each measuring 7' x 7' x 34" were used to sample each four-pot station. Each pot was webbed with #92 tarred nylon twine with a stretch mesh of 2¾" and each pot had two opposing tunnel eyes measuring 8" x 36". Each pot was baited with one gallon of frozen chopped Pacific herring *Clupea pallasi*. Pots were pulled in the sequential order that they were set.

Station, sequential pot number, bottom type (rock, sand, silt, mud, or gravel), depth fished, set date and time, lift date and time, latitude and longitude, and gear performance were recorded for each pot set. Survey itinerary and pot sampling methods are detailed in Watson (2004).

CATCH SAMPLING

The contents of each pot fished were enumerated to provide species composition, catch per unit effort (CPUE), and size by sex distributions for blue king crabs, snow crabs *C. opilio*, Tanner crabs *C. bairdi*, and hair crabs *E. isenbeckii*. All blue king crabs and snow crabs were measured and assessed for shell age and presence of disease. Carapace lengths (CL) of blue king and hair crabs were taken to the nearest millimeter (mm), from the posterior margin of the right eye orbit to the midpoint of the rear margin of the carapace as in Wallace et al. (1949). Blue king crab shell age was estimated using the classification scheme adapted from Blau and Watson (1998). Carapace widths (CW) of snow and Tanner crabs were measured across the carapace at the widest part perpendicular to the medial line from the anterior to the posterior of the carapace, with the tips of the calipers reaching inside the lateral spines. Snow and Tanner crab shell age was estimated using the classification scheme as described in Jadamec et al. (1999). Legal size status of male blue king, snow, and Tanner crabs was also recorded.

Female blue king and snow crabs were assessed for clutch condition, percent clutch fullness, egg color, and embryo development. For the 2004 survey, clutch fullness categories were changed to that of the NMFS criteria: trace to 1/8 full, 25% full, 50% full, 75% full and 100% full. Clutches were assigned a clutch fullness score using these categories and in comparison to photographs of the various clutch categories (Watson 2004).

Stomach samples from blue king crabs were to be obtained and preserved for an ongoing food habits study, but were not collected due to the overall scarcity of blue king crabs in survey catches.

Complete catch sampling procedures are in Watson (2004).

OCEAN BOTTOM TEMPERATURES

Ocean bottom temperatures (°C) were obtained across the depth ranges fished within the survey area by placing one of five submersible temperature recorders in pots at select stations. Three Brancker model XR-420 conductivity-temperature-depth recorders (CTDs) and two Brancker model TR-1000 submersible temperature recorders (STRs) were deployed during the survey.

RESULTS AND DISCUSSION

A total of 702 pots from 176 stations (Figure 1) were fished at an average depth of 37 fathoms with an average soak time of 38 hours. The first stations were set July 26 and the last stations were pulled August 18, 2004 (Appendix A1). One survey pot was lost during the survey and one pot was inadvertently set without bait.

BLUE KING CRABS

2004 Survey

Blue king crabs were captured at 139 stations (Figure 2 and Appendix A1); none were caught at stations 6, 15, 36, 44, 71, 81-85, 88, 93-94, 97, 100-101, 103, 106-110, 112, 117-118, 120-121, 130-135, 137,160, 172, and 303-304.

Catch and Distribution

A total of 861 legal males, 558 sublegal males, 168 mature females, and 128 immature females were caught during the survey (Table 1). Males were primarily distributed within Stratum 2 and to a diminished degree in Strata 1 and 3 stations (Figure 3). The overall survey CPUE for legal males was 1.2 crabs per pot and sublegal males averaged 0.8 crabs per pot (Table 1). Peak survey CPUE for legal males was 14.3 crabs (station 25); peak CPUE for sublegal males was 9.3 crabs (station 180). Females were more narrowly distributed than male crabs within the survey area; most of the mature and immature female crabs were caught in Stratum 2 stations (Figure 4). Smaller catches of females in Stratum 1 stations were limited to just outside the perimeter of Stratum 2. The overall survey CPUE for females was 0.4 crabs per pot (Table 1) with a peak CPUE of 12.5 crabs at station 34.

Survey-wide, legal male postrecruits were most numerous (632) as compared to legal male recruits (229), sublegal males <105-mm CL (261) and sublegal prerecruit ones (297) (Table 1). Legal male crabs were most densely concentrated in Stratum 2 stations (2.5 crabs per pot), as were sublegal males (1.7 crabs per pot) and females (0.9 crabs per pot). Male and female blue king crab catch, CPUE, and station locations are summarized in Appendix A1.

Size Distributions

Legal male crabs ranged in size from 113-mm to 163-mm CL around a single mode centered at 130-mm CL (Figure 5). Sublegal males ranged in size from 52-mm to 124-mm CL, with a single large mode centered near 115-mm CL and a skewed left distribution (Figure 5). Immature females ranged in size from 30-mm to 91-mm CL around a single mode at 70-mm to 75-mm CL

(Figure 6). Mature females ranged in size from 75-mm to 117-mm CL, with a wide single mode from 90-mm to 95-mm CL (Figure 6).

Shell Age and Incidence of Disease

Shell age of captured legal male crabs varied, with slightly more (58.4%) old and very old shell legal-sized crabs as compared to 41.6% in new-shell condition (Table 2). Sublegal males were mostly new shells (78.7%), as were females (59.5%). Captured crabs were apparently healthy; no incidences of chitinoclastic bacteria, microsporidian or 'cottage cheese' disease, or egg predators were noted in survey crab catches. One new-shell 73-mm CL sublegal male died as a result of capture.

Female Reproductive Condition

Of the 296 females captured, 168 were classed as mature and 128 as immature. There were 100 mature females with matted pleopodal setae and with an average size of 92-mm CL. Of the 68 ovigerous females captured, all had uneyed eggs and most clutches were either purple or purple-brown in color (Table 3). Female clutch sizes were generally full, with 85.3% at the 75-100% full level. No dead eggs were observed in any of the clutches.

Comparison of the 1995, 1998, 2001, and 2004 Surveys

A combined total of 11,433 legal male, 9,010 sublegal male and 6,313 female blue king crabs were captured during the four surveys (Appendices B1 and C1). The 2004 survey was the most comprehensive of the surveys, with 702 pot lifts from 176 stations in the 2,850-nmi^2 survey area. Average soak times for fishing gear were similar between survey years, ranging from 34 hours in 1995 to 39 hours in 2004. Average depth fished was deeper in 1995 and 2001 at 41 fathoms than in 1998 and 2004 (37 fathoms). Commercial king crab pots were used in the 1995 survey, and, with the exception of new pot doors installed prior to the 2004 survey, the same fishing gear was used in the 1998, 2001 and 2004 surveys. Catch and CPUE of blue king crabs by sex and survey year for all offshore stations fished is summarized in Appendices B1 and C1.

Ninety-six stations were fished in common on the 1995, 1998, 2001, and 2004 surveys (Figure 7), representing 55% of the 2004 stations, 61% of the 2001 stations and 70% of the 1995 and 1998 stations fished. Unless otherwise noted, the following comparisons among the four surveys pertain only to the data collected from the 96 stations fished in common. Data from the 1995, 1998, and 2001 surveys are referenced from Blau (1996), Blau and Watson (1999a), Watson and Burt (2002) and the databases for those surveys as of October 31, 2004.

Catch and Distribution

The highest catch rate of legal male crabs among the 96 in-common stations was 8.3 crabs per pot in 1998 and the lowest was 1.2 crabs in the 2004 survey (Table 4). Sublegal male crab catch rates were highest in 1995 at 6.7 crabs per pot and lowest in 2004 (0.7 crabs per pot) (Table 4). Catch rates for female crabs were greatest in 1998 at 5.3 crabs per pot and lowest in 2001 and 2004 at 1.0 and 0.9 crabs per pot, respectively (Table 5). Relative catch rates of legal male, sublegal male and female blue king crabs in the four surveys are shown in Figures 8, 9, and 10, respectively.

The CPUE for legal males in Stratum 2 has declined five-fold from 11.0 in 1995 to 2.2 in 2004, with highest decreases occurring at stations nearest to the island (Table 4). Within Stratum 1, the

CPUE of legal males was highest in 1998 (7.7), nearly identical in 1995 and 2001 (4.3 and 4.2), and lowest at 0.6 crabs per pot in 2004 (Table 4).

Trends in sublegal male CPUE within Stratum 2 tended to mirror those of legal males over the four surveys. Sublegal male CPUEs have declined sharply from a high of 12.5 crabs per pot in 1995 to a low of 1.7 crabs per pot in 2004 (Table 4). Within Stratum 1, however, sublegal male densities were moderately low, ranging from 4.0 in 1995 to 4.5 in 1998 and to 2.4 in 2001, with a survey record low in 2004 at 0.2 crabs per pot (Table 4).

Differences in female crab CPUE within Stratum 2 stations changed profoundly in 2001, dropping six-fold from the survey high of 15.4 crabs per pot in 1998 (Table 5). As was the case for legal and sublegal males, females were at their lowest catch rate in 2004 (0.9 crabs per pot). Female catch rates in Stratum 1 stations have always been low (approximately 0.1 crabs per pot), with the highest survey rate occuring in 1998 (0.5 crabs per pot) (Table 5). The proportion of mature-to-immature females in survey catches declined from a high of 4.6:1 crabs in 1995 to 0.9:1 crabs in the 2004 survey.

Among all stations fished in each survey year (i.e., not limited to only the 96 stations fished in common), the peak catch of legal male has declined from a high of 256 crabs in 1995 to the current low of 57 animals in 2004 (Appendix B1). Peak catch of sublegal males decreased more noticeably across the four surveys, from 167 crabs in 1995 to just 37 crabs in 2004. The peak single station catch of female crabs in 1995 (590 crabs) was not approached in the other three surveys (Appendix C1).

Regardless of sex or legal status, it appears that the overall abundance of blue king crabs in the survey area declined steeply from 1995 to 2004. Distribution patterns among the four surveys shows that in 1998, the distribution had changed such that crabs were concentrated in deeper waters of Strata 1 and 2 stations than in 1995, 2001, or 2004.

Size Distributions

The comparative length distributions for blue king crabs from the four surveys include data from all stations fished in each year. Legal male length distributions were similar across the four surveys, with a single dominant mode centered at 130-135-mm CL (Figure 11). Female distributions were similar in the first three surveys. In 2004, the peak mode was near 100-mm CL and the percentage of females greater than about 110-mm CL was notably higher than in the previous surveys (Figure 12).

Shell Age and Incidence of Disease

The comparative shell ages for blue king crabs from the four surveys include data from all stations fished in each year. The predominant shell age of surveyed legal male crabs was new shell in 1998 and 2001 (Table 2). Most of the legal and sublegal males in the 1995 survey were new-shelled; however, direct comparisons to the 1998 and 2001 data sets cannot be made due shell-age coding inconsistencies during the 1995 survey. In 2004, however, most legal males were old or very old-shells whereas most sublegals were observed to be in new-shell condition. Shell-age structure of female blue king crabs among the four surveys was comparable only between the 2001 and 2004 surveys due to different shell-age criteria applied during the 1998 and 1995 data sets (Table 2). In the latter two surveys, females were mostly in new-shell condition. The incidence of chitinoclastic shell disease or ‘shell rust’ was low, affecting two male crabs in 2001 and three male crabs in 1998. No ‘leatherback’ crabs were observed in 1995,

1998, and 2004 survey catches as compared to the 13 affected legal males in 2001. No prior evidence of snailfish egg infestations in host blue king crabs was noted in the 1995, 1998, and 2004 surveys as compared to the two males observed to have had evidence of prior infestations during the 2001 survey.

Female Reproductive Condition

Comparative reproductive data for female blue king crabs include data from all stations fished in each year. The total number of egg-bearing females in 1995 was 67 crabs, 63 crabs in 1998, 39 crabs in 2001, and 68 in 2004 (Tables 3 and 6). Most ovigerous females in the 1998, 2001, and 2004 surveys carried clutches of uneyed, purple-to-brown colored eggs, and had no apparent dead eggs. Clutch fullness scoring ranges changed for the 2004 survey (see Methods) but at least 50% of the ovigerous females in each survey had clutches that were at least 60% full (Tables 3 and 6).

SNOW AND TANNER CRABS

2004 Survey

Snow, Tanner, and hybrid snow/Tanner crabs were captured at 88 stations located primarily in Stratum 2 (Figure 13 and Appendix A1). The remaining 88 stations that did not produce catches were located primarily in Strata 1 and 3 stations that were adjacent to the island in rocky substrate.

Catch and Distribution

A total of 1,664 legal male, 680 sublegal male, 165 mature female, and 19 immature female snow crabs were caught during the survey (Table 7). Male snow crabs were primarily distributed at the southeast portion of Stratum 1; sublegal males almost exclusively so (Figures 13 and 14). The overall survey CPUE for legal males was 2.4 crabs per pot and sublegal males averaged 1.0 crabs per pot (Table 7). Peak survey CPUE for legal males was 21.0 crabs (station 132); peak CPUE for sublegal males was 20.5 crabs (station 121) (Appendix A1). Female snow crabs were much less abundant than males and were found, with few exceptions in the southeast portion of Stratum 1 (Figures 13 and 15). The overall survey CPUE for females was 0.3 crabs (Table 7) and the peak CPUE occurred at station 133 (13.5 crabs) (Appendix A1).

Tanner crab catches were minimal in 2004 and included two legal males, two sublegal males, and one mature female. Snow x Tanner hybrid crabs totaled 4 legal males and one immature female.

Size Distributions

Legal male snow crabs ranged in size from 79-mm to139-mm CW and sublegal males ranged in size from 21-mm to 78-mm CW (Figure 16). Female snow crabs ranged in size from 25-mm to 78-mm CW (Figure 16).

Shell Age and Incidence of Disease

Most legal males were old or very old-shells whereas 70% of the sublegal males and 96% of the females were categorized as new-shelled (Table 8). Captured crabs were apparently healthy; no incidence of chitinoclastic bacteria, black mat, or egg predators was noted in survey crab catches. One 88-mm CW legal male died as a result of capture and one 65-mm CW immature female was assessed with bitter crab syndrome. No egg predators were observed in survey catches.

Female Reproductive Condition

All of the captured mature females were ovigerous and most had clutch fullness scores of 75% (Table 3). With the exception of one female, clutches were orange in color, the eggs were uneyed, and dead eggs were not apparent in any of the clutches.

Comparison of the 1995, 1998, 2001, and 2004 Surveys

A combined total of 58,988 legal male, 28,947 sublegal male, and 12,452 female snow crabs were captured on the four surveys (Appendices D1 and E1). Unless otherwise noted, information presented herein reflects descriptive comparisons among the four surveys only for the 96 stations fished in common (Figure 7). Data from the 1995, 1998, and 2001 surveys are referenced from Blau (1996), Blau and Watson (1999a), Watson and Burt (2002) and the databases for those surveys as of October 31, 2004.

Catch and Distribution

Peak legal male crab CPUEs among the 96 in-common stations steadily declined from 329.1 crabs per pot in 1995 to 154.6 crabs per pot in 2001 (Appendix D1). In 2004, however, the peak legal male CPUE among the 96 in-common stations dropped to just 13.0 crabs per pot and the highest CPUE among any of the 176 stations fished in 2001 was only 21.0. Peak CPUE for sublegal male crabs peaked in 2001 at 225.3 crabs per pot, and dropped to just 10.5 in 2004 (Appendix D1). Female crab CPUE peaked in 2001 at 320.0 crabs per pot (Appendix E1). Peak catches were neglible in 1995 and 2004 at less than one crab per pot (Appendix E1).

Among the 96 stations fished in common in each survey year, legal and sublegal male snow crabs were abundant in Stratum 1 stations but were largely absent from Stratum 2 stations (Figures 17 and 18). Females were more sparsely distributed within Stratum 1 and the only appreciable catches were in the 2001 survey (Figure 19).

Size Distributions

The comparative size distributions presented for snow crabs include data from all stations fished in each survey year. For male snow crabs, the dominant mode observed in the 1995 survey was at 80-mm CW as compared to 95-mm in 1998 and 2004 and 70-mm to 75-mm CW in 2001 (Figure 20). The primary size mode for female crabs was 50 mm to 55 mm in the 1998 – 2004 surveys as compared to 70-mm in the 1995 survey (Figure 21).

Shell Age and Incidence of Disease

The comparative shell age information for snow crabs includes data from all stations fished in each survey year. The percentage of new-shelled legal male crabs in survey catches declined from a high of 87% in 1995 to a low of 40% in 2004 (Table 8). The percentage of new-shelled sublegal crabs in survey catches fluctuated moderately among the four surveys, from a high of 86% in 2001 to a low of 63% in 1998. The majority of female snow crabs were in new-shell condition in every survey. Captured crabs from catches in all surveys were apparently healthy. Five male crabs were noted with chitinoclastic shell disease in 2001 whereas no instances of chitinoclastic bacteria were noted in the other three surveys. In the 1998 survey, there were nemertean worms (egg predators) seen in 31 female egg clutches. Other than the dead legal male and the immature female with bitter crab syndrome observed in 2004, no other diseases were observed.

Female Reproductive Condition

Prior to the 2001 survey, mature and immature female snow crabs were not enumerated separately. Catches from the 2001 survey showed that the ratio of mature to immature females was nearly 1:1 as compared to 8.7:1 in 2004. Female reproductive condition was similar in the four survey years; virtually all ovigerous females were new-shelled and carried clutches that were 30-89% full, with uneyed bright orange eggs (Table 9).

SPECIES COMPOSITION OF 2004 SURVEY CATCHES

The ten most numerous species captured in surveys pots, in order of decreasing abundance were: snow crabs (2,525), Pacific cod *Gadus macrocephalus* (2,113), blue king crabs (1,715), great sculpin *Myoxocephalus polyacanthocephalus* (273), notched brittlestars *Ophiura sarsi* (263), walleye pollock *Theragra chalcogramma* (197), circumboreal toad crabs *Hyas coarctatus* (156), sinuous whelks *Buccinum plectrum* (129), Pribilof whelks *Neptunea pribiloffensis* (108), and fuzzy hermit crabs *Pagurus trigonocheirus* (91) (Table 10). When grouped by order or family, the brachyuran crabs, including snow crabs, Tanner crabs and arctic lyre crabs were most numerous in survey catches followed, in order of decreasing abundance, by gadoid fish (cod and pollock), and anomuran crabs (blue king crabs, hair crabs, and hermit crabs).

FISH LENGTH DISTRIBUTIONS

Incidental catches of commercially important fish species were measured from tip of snout to fork of tail to the nearest centimeter (cm). A total of 2,336 fish of four species were measured during the survey. Greenland turbot (n = 8) ranged in size from 72-cm to 102-cm and averaged 84-cm in length. Pacific halibut (n = 19) ranged in size from 65-cm to 149-cm and the average size was 96-cm. Pacific cod (n = 2,113) ranged in size from 21-cm to 120-cm and averaged 63-cm in length. Walleye pollock (n = 196) ranged in size from 27-cm to 79-cm and the average size was 56-cm.

OCEAN BOTTOM TEMPERATURES

Hourly ocean bottom temperatures were taken each day that pots were fished and were recorded at 19 stations (Table 11). The lowest temperature (-0.2 °C) was recorded at 40 fathoms, the highest (5.3 °C) at a depth of 26 fathoms, and the overall survey average temperature was 1.7 °C. Lowest temperatures were recorded in the 30-fm to 45-fm range, with warmer temperatures observed both in nearshore shallow waters (<30-fm) and deeper waters (>45-fm). Average ocean temperatures by depth during the 1998 and 2004 surveys are shown in Figure 22. Temperatures in 1998 were generally warmer than in 2004, at an average of 2.8 °C in the 1998 survey as compared to 1.9 °C in 2004.

SUBSTRATE TYPES

Substrate types for each pot location during the 2004 survey were identified based on the ship's echosounder and debris on pulled pots (mud, rock/gravel, etc.). Stratum 2 stations were mostly (40 of 58 stations) identified as having gravel or rocky substrates whereas Stratum 1 stations were mostly (81 of 108 stations) identified as having muddy substrates. Substrates in the shallow-water Stratum 3 were of mixed types with 4 stations characterized with gravel/rocky material, 3 stations were of mud, and 3 stations were sandy.

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TABLES AND FIGURES

Table 1.–Blue king crab catch and catch per unit effort (CPUE) by stratum and sex from the 2004 St. Matthew Island blue king crab survey.

			Legal Males				Sublegal Males				Females					
											Mature Females					
Stratum	Stations	Pots	Recruits	Post-recruits	Total Number	Ave. CPUE	<105-mm CL	Prerecruit Ones	Total Number	Ave. CPUE	Matted	Ovig.	Total	Immature Females	Total Number	Ave. CPUE
1	108	431	98	184	282	0.7	83	70	153	0.4	3	1	4	41	45	0.1
2	58	231	131	445	576	2.5	173	227	400	1.7	93	40	133	85	218	0.9
3	10	40	0	3	3	<0.1	5	0	5	0.1	4	27	31	2	33	0.8
All Strata	176	702	229	632	861	1.2	261	297	558	0.8	100	68	168	128	296	0.4

Table 2.–Shell age of blue king crabs from the 1995, 1998, 2001, and 2004 St. Matthew Island surveys. Data presented is from all stations fished in each survey year.

Shell Age Category	1995[a]		1998[b]		2001[c]		2004	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
	Legal Males							
New-pliable	506	13.1	1	<0.1	3	<0.1	0	–
New-hard	1,239	32.2	3,003	79.7	2,445	82.9	358	41.6
New or Old[d]	1,084	28.1	–		–	–	–	–
Old	923	24.0	644	17.1	498	16.9	463	53.8
Very Old	99	2.6	121	3.2	6	0.2	40	4.6
Total	3,851		3,769		2,952		861	
	Sublegal Males							
New-pliable	899	23.6	5	0.2	0	–	0	–
New-hard	1,542	40.5	2,447	94.5	1,959	95.1	439	78.7
New or Old[d]	841	22.1	–	–	–	–	–	–
Old	503	13.2	132	5.1	100	4.9	112	20.1
Very Old	22	0.6	5	0.2	0	–	7	1.2
Total	9,807		2,589		2,059		558	
	Females[e]							
New-pliable	–	–	–	–	0	–	0	–
New-hard	–	–	–	–	501	68.0	176	59.5
Old	–	–	–	–	236	32.0	111	37.5
Very Old	–	–	–	–	0	–	9	3.0
Total	–	–	–	–	737		296	

[a] 1995 survey data from Blau (1996) and the 'StMatt95' database as of October 31, 2004.

[b] 1998 survey data from Blau and Watson (1999a) and the 'StMatt98' database as October 31, 2004.

[c] 2001 survey data from Watson and Burt (2002) and the 'StMatt01' database as of October 31, 2004.

[d] Includes both new-hard and old-shell male crabs due to shell-age coding inconsistencies during the first third of the 1995 survey (Blau 1996).

[e] Summary provided only for 2001 and 2004 data; female crabs from the 1995 and 1998 surveys were assigned to shell age categories based on a combination of reproductive condition and exoskeletal features (Blau 1996; Blau and Watson 1999a).

Table 3.–Clutch and egg characteristics for ovigerous female blue king and snow crabs captured in the 2004 St. Matthew Island survey. Data presented is from all stations fished in each survey year.

Characteristic	Blue King Crab		Snow Crab	
	Number	Percent	Number	Percent
Clutch Size				
Trace to 1/8 full	1	1.5	0	–
25% full	2	2.9	0	–
50% full	7	10.3	5	3.0
75% full	40	58.8	145	87.9
100% full	18	26.5	15	9.1
Total	68		165	
Live Egg Color				
Tan	0	–	0	–
Orange	0	–	164	99.4
Purple	23	33.8	0	–
Brown	6	8.8	0	–
Purple-brown	38	55.9	1	0.6
Pink	0	–	0	–
Reddish	1	1.5	0	–
Not recorded	–		–	
Total	68		165	
Egg Development				
Uneyed	68	100.0	165	100
Eyed	0	–	0	–
Hatching	0	–	0	–
Not recorded	–		0	–
Total	68		165	
Dead Eggs				
Not Apparent	68	100.0	165	100
Less than 20%	0	–	0	–
Greater than 20%	0	–	0	–
Not recorded	–		0	–
Total	68		165	

Table 4.–Male blue king crab catch and catch per unit effort (CPUE) by stratum from the 1995, 1998, 2001, and 2004 St. Matthew Island surveys. Data presented is from the 96 stations fished in common in each survey year.

	Legal Males					Sublegal Males				
Strata/Survey Year	Recruits	Post-recruits	Unknown Category	Total Number	Ave. CPUE	<105-mm CL	Prerecruit Ones	Unknown Category	Total Number	Ave. CPUE
Stratum 1 (65 stations, 260 pots)										
1995[a]	519	550	55	1,124	4.3	433	601	0	1,034	4.0
1998[b]	942	1,044	2	1,988	7.7	280	897	2	1,179	4.5
2001[c]	512	585	0	1,097	4.2	229	387	1	617	2.4
2004	56	110	0	166	0.6	13	35	0	48	0.2
Stratum 2 (31 stations, 124 pots)										
1995[a]	248	329	787	1,364	11.0	744	799	1	1,544	12.5
1998[b]	399	806	0	1,205	9.7	531	354	0	885	7.1
2001[c]	354	604	1	959	7.7	413	327	4	744	6.0
2004	65	209	0	274	2.2	89	122	0	211	1.7
All Strata (96 stations, 384 pots)										
1995[a]	767	879	842	2,488	6.5	1,177	1,400	0	2,578	6.7
1998[b]	1,341	1,850	2	3,193	8.3	811	1,251	2	2,064	5.4
2001[c]	866	1,189	1	2,056	5.4	642	714	5	1,361	3.5
2004	121	319	0	440	1.2	102	157	0	259	0.7

[a] 1995 survey data from Blau (1996) and the 'StMatt95' database as of October 31, 2004.

[b] 1998 survey data from Blau and Watson (1999a) and the 'StMatt98' database as of October 31, 2004.

[c] 2001 survey data from Watson and Burt (2002) and the 'StMatt01' database as of October 31, 2004.

Table 5.–Female blue king crab catch and catch per unit effort (CPUE) by stratum from the 1995, 1998, 2001, and 2004 St. Matthew Island surveys. Data presented is from the 96 stations fished in common in each survey year.

Strata/Year	Mature Females	Immature Females	Unknown Category	Total Number	Average CPUE
Stratum 1 (65 stations, 260 pots)					
1995[a]	10	17	0	27	0.1
1998[b]	97	30	1	128	0.5
2001[c]	20	14	0	34	0.1
2004	3	0	0	3	<0.1
Stratum 2 (31 stations, 124 pots)					
1995[a]	1,259	258	1	1,518	12.2
1998[b]	1,566	343	0	1,909	15.4
2001[c]	258	85	0	343	2.8
2004	51	63	0	114	0.9
All Strata (96 stations, 384 pots)					
1995[a]	1,269	275	1	1,545	4.0
1998[b]	1,663	373	1	2,037	5.3
2001[c]	278	99	0	377	1.0
2004	54	63	0	117	0.9

[a] 1995 survey data from Blau (1996) and the 'StMatt95' database as of October 31, 2004.

[b] 1998 survey data from Blau and Watson (1999a) and the 'StMatt98' database as of October 31, 2004.

[c] 2001 survey data from Watson and Burt (2002) and the 'StMatt01' database as of October 31, 2004.

Table 6.–Clutch and egg characteristics for ovigerous female blue king crabs captured in the 1995, 1998, and 2001 St. Matthew Island surveys. Data presented is from all stations fished in each survey year.

Characteristic	1995[a]		1998[b]		2001[c]	
	Number	Percent	Number	Percent	Number	Percent
Clutch Size						
1-29% full	31	46.3	11	17.5	7	17.9
30-59% full	0	–	7	11.1	12	30.8
60-89% full	12	17.9	22	34.9	12	30.8
90-100% full	24	35.8	22	34.9	8	20.5
Not recorded	0	–	1	1.6	0	–
Total	67		63		39	
Live Egg Color						
Tan	4	6.0	0	–	1	2.6
Purple	16	23.9	20	31.7	13	33.3
Brown	9	13.4	27	42.9	0	–
Purple-brown	11	16.4	7	11.1	24	61.5
Pink	0	–	6	9.5	0	–
Reddish	1	1.5	3	4.8	0	–
Not recorded	26	38.8	0	–	1	2.6
Total	67		63		39	
Egg Development						
Uneyed	17	25.4	51	81.0	37	94.9
Eyed	18	26.9	3	4.8	1	2.6
Hatching	5	7.5	9	14.3	0	–
Not recorded	27	40.3	0	–	1	2.6
Total	67		63		39	
Dead Eggs						
Not Apparent	33	49.3	58	92.1	37	
Less than 20%	3	4.5	5	7.9	1	
Greater than 20%	0	–	0	–	0	
Not recorded	30	44.8	0	–	1	
Total	67		63		39	

[a] 1995 survey data from Blau (1996) and the 'StMatt95' database as of October 31, 2004.

[b] 1998 survey data from Blau and Watson (1999a) and the 'StMatt98' database as October 31, 2004.

[c] 2001 survey data from Watson and Burt (2002) and the 'StMatt01' database as of October 31, 2004.

Table 7.–Snow crab catch and catch per unit effort (CPUE) by stratum and sex from the 2004 St. Matthew Island blue king crab survey.

			Legal Males		Sublegal Males		Females			
Stratum	Stations	Pots	Number	Ave. CPUE	Number	Ave. CPUE	Mature Number	Immature Number	Total Number	Ave. CPUE
1	108	431	1,578	3.7	592	1.4	154	19	173	0.4
2	58	231	86	0.4	88	0.4	11	0	11	<0.1
3	10	40	0	–	0	–	0	0	0	–
All Strata	176	702	1,664	2.4	680	1.0	165	19	184	0.3

Table 8.–Shell age of snow crabs from the 1995, 1998, 2001, and 2004 St. Matthew Island blue king crab surveys. Data presented is from all stations fished in each survey year.

Shell Age	1995[a]		1998[b]		2001[c]		2004	
Category	Number	Percent	Number	Percent	Number	Percent	Number	Percent
	Legal Males							
New-pliable	0	–	50	0.2	16	<0.1	0	–
New-hard	8,853	87.3	21,232	76.3	12,812	66.2	658	39.6
Old	1,133	11.2	5,353	19.2	5,265	27.2	786	47.3
Very Old	157	1.5	1,178	4.2	1,272	6.6	217	13.1
Total	10,143		27,813		19,365		1,661	
	Sublegal Males							
New-pliable	0	–	1	<0.1	1	<0.1	0	–
New-hard	3,596	78.8	4,076	62.6	14,555	85.6	474	69.8
Old	790	17.3	1,754	27.0	2,144	12.6	165	24.3
Very Old	175	3.8	676	10.4	306	1.8	40	5.9
Not recorded	1	<0.1	0	–	0	–	0	–
Total	4,562		6,507		17,006		679	
	Females							
New-pliable	0	–	7	0.4	13	0.2	0	–
New-hard	10	62.5	1,490	91.7	8,553	99.3	177	96.2
Old	6	37.5	120	7.4	36	0.4	5	2.7
Very Old	0	–	7	0.4	8	0.1	2	1.1
Total	16		1,624		8,610		184	

[a] 1995 survey data from Blau (1996) and the 'StMatt95' database as of October 31, 2004.

[b] 1998 survey data from Blau and Watson (1999a) and the 'StMatt98' database as of October 31, 2004.

[c] 2001 survey data from Watson and Burt (2002) and the 'StMatt01' database as of October 31, 2004.

Table 9.–Clutch and egg characteristics for ovigerous female snow crabs captured in the 1995, 1998, and 2001 St. Matthew Island blue king crab surveys. Data presented is from all stations fished in each survey year.

Characteristic	1995[a]		1998[b]		2001[c]	
	Number	Percent	Number	Percent	Number	Percent
Clutch Size						
1-29% full	0	–	51	6.7	674	15.0
30-59% full	3	37.5	269	35.3	1,915	42.7
60-89% full	0	–	333	43.6	1,743	38.9
90-100% full	5	62.5	106	13.9	150	3.3
Not recorded	0	–	4	0.5	0	–
Total	8		763		4,482	
Live Egg Color						
Tan	0	–	2	0.3	0	–
Brown	0	–	5	0.7	3	0.1
Orange	8	100	752	98.6	4,478	99.9
Purple-brown	0	–	4	0.5	0	–
Not recorded	0	–	0	–	1	<0.1
Total	8		763		4,482	
Egg Development						
Uneyed	8	100	758	99.3	4,478	99.9
Eyed	0	–	0	–	1	<0.1
Hatching	0	–	5	0.7	3	0.1
Not recorded	0	–	0	–	0	–
Total	8		763		4,482	
Dead Eggs						
Not Apparent	8	100	749	98.2	4,482	100
Less than 20%	0	–	14	1.8	0	–
Greater than 20%	0	–	0	–	0	–
Not recorded	0	–	0	–	0	–
Total	8		763		4,482	

[a] 1995 survey data from Blau (1996) and the 'StMatt95' database as of October 31, 2004.

[b] 1998 survey data from Blau and Watson (1999a) and the 'StMatt98' database as of October 31, 2004.

[c] 2001 survey data from Watson and Burt (2002) and the 'StMatt01' database as of October 31, 2004.

Table 10.–Species composition of pot catches from the 2004 St. Matthew Island blue king crab survey.

Rank	Common Name	Scientific Name	Number
1	Snow crab	*Chionoecetes opilio*	2,525
2	Pacific cod	*Gadus macrocephalus*	2,113
3	Blue king crab	*Paralithodes platypus*	1,715
4	Great sculpin	*Myoxocephalus polyacanthocephalus*	273
5	Notched brittlestar	*Ophiura sarsi*	263
6	Walleye pollock	*Theragra chalcogramma*	197
7	Circumboreal toad crab	*Hyas coarctatus*	156
8	Sinous whelk	*Buccinum plectrum*	129
9	Pribilof whelk	*Neptunea pribiloffensis*	108
10	Fuzzy hermit crab	*Pagurus trigonocheirus*	91
11	Chrysoara jellyfish	*Chrysoara*	80
12	Unidentified jellyfish	Scyphozoa	78
13	Fat whelk	*Neptunea ventricosa*	50
14	Knobby six-rayed sea star	*Leptasterias polaris*	42
15	Rose sea star	*Crossaster papposus*	34
16	Alaska skate	*Raja parmifera*	30
17	Polar whelk	*Buccinum polare*	30
18	Ladder whelk	*Buccinum scalariforme*	26
19	Unidentified hermit crab	Paguridae	20
20	Pacific halibut	*Hippoglossus stenolepis*	19
21	Basketstar	*Gorgonocephalus eucnemis*	18
22	Angular whelk	*Buccinum angulosum*	17
22	Unidentified Leptasterias	*Leptasterias*	17
23	Common mud star	*Ctenodiscus crispatus*	16
24	Yellowfin sole	*Limanda aspera*	14
25	Northern neptune	*Neptunea heros*	13
26	Unidentified neptune snail	*Neptunea*	12
27	Lyre whelk	*Neptunea lyrata*	11
28	Greenland turbot	*Reinhardtius hippoglossoides*	7
28	Sea raspberry	*Gersimia*	7
28	Longfinger hermit crab	*Pagurus rathbuni*	7
29	Unidentified snailfishes	Liparidinae	6
29	Kroyer's plicifusus snail	*Plicifusus kroyeri*	6
29	Unidentified sponge	Porifera	6
30	Tanner x snow crab hybrid	*C. bairdi x C. opilio* hybrid	5
30	Tanner crab	*Chionoecetes bairdi*	5
30	Helmet whelk	*Neptunea magna*	5
31	Unidentified sea anemone	Actiniaria	4
31	Giant scale worm	*Eunoe depressa*	4
32	Unidentified polychaete worm	Polychaeta	3
32	Unidentified isopod	Isopoda	3
32	Unidentified nudibranch	Nudibranchia	3
32	Colus snail	*Colus*	3
32	Little neptune	*Neptunea borealis*	3

-continued-

Table 10.–(page 2 of 2)

Rank	Common Name	Scientific Name	Number
32	Unidentified buccinum snail	*Buccinum*	3
32	Black mussel	*Musculus niger*	3
32	Hairy cockle	*Clinocardium ciliatum*	3
32	Unidentified brittlestar	*Ophiuroid*	3
33	Hair crab	*Erimacrus isenbeckii*	2
33	Unidentified skates	Rajidae	2
33	Flathead sole	*Hippoglossoides elassodon*	2
33	Salmon snailfish	*Careproctus rastrinus*	2
33	Unidentified hydroid	Hydrozoa	2
33	Unidentified barnacle	Thoracica	2
33	Crab barnacle	*Balanus hesperius*	2
33	Snail eggs	Gastropod eggs	2
33	Two-keel hairysnail	*Trichtropis bicarinata*	2
33	Boreal astarte	*Astarte borealis*	2
33	Giant octopus	*Octopus dofleini*	2
33	Unidentified sea star	Asteroidea	2
33	Blackspined sea star	*Lethasterias nanimensis*	2
33	Arctic sea star	*Leptasterias arctica*	2
33	Parma sand dollar	*Echinarachnius parma*	2
33	Leafy bryozoan	*Flustra serrulata*	2
34	Northern rock sole	*Lepidopsetta polyxystra*	1
34	Unidentified sculpin	Cottidae	1
34	Peachskin snailfish	*Careproctus scottae*	1
34	Unidentified scale worm	Polynoidae	1
34	Spendid hermit crab	*Pagurus splendescens*	1
34	Unidentified chiton	Polyplacophora	1
34	Neptunea snail eggs		1
34	Unidentified snail	Gastropoda	1
34	Pale moonsnail	*Polinices pallidus*	1
34	Shrew whelk	*Colus halli*	1
34	Warped whelk	*Pyrulofusus deformis*	1
34	Beringius snail	*Beringius*	1
34	Northern beringius	*Beringius beringii*	1
34	Beringius snail eggs		1
34	Unidentified bivalve	Bivalvia	1
34	Arctic surfclam	*Mactromeris polynyma*	1
34	Bent-nose macoma clam	*Macoma nasuta*	1
34	Greenland cockle	*Serripes groenlandicus*	1
34	Broad cockle	*Serripes laperousii*	1
34	Tumid sea star	*Henricia tumida*	1
34	Green sea urchin	*Strongylocentrotus droebachiensis*	1
34	Brownscaled sea cucumber	*Psolus fabricii*	1
34	Unidentified tunicate	Ascidian	1
34	Sea onion	*Boltenia ovifera*	1
Total			8,243

Table 11.–Ocean bottom temperatures at select stations fished during the 2004 St. Matthew Island blue king crab survey.

Station Number	Date Set	No. of Readings	Depth (fm)	Temperature (°C)		
				Average	Minimum	Maximum
106	26-Jul	26	43	0.5	0.5	0.5
104	27-Jul	32	45	0.9	0.6	1.2
113	28-Jul	31	52	1.7	1.7	1.9
80	29-Jul	31	38	0.3	0.2	0.4
97	30-Jul	31	40	0.0	-0.2	0.0
55	31-Jul	31	32	2.4	1.3	3.3
34	1-Aug	32	26	3.2	2.9	5.1
41	2-Aug	30	31	1.9	1.4	2.8
40	3-Aug	31	33	0.9	0.9	1.1
29	4-Aug	31	41	0.5	0.5	0.6
32	5-Aug	77	32	1.8	1.1	2.6
19	6-Aug	29	32	2.0	1.8	2.5
151	9-Aug	79	31	2.4	2.3	3.4
190	10-Aug	30	26	4.2	3.4	5.3
181	12-Aug	53	26	2.9	1.3	5.1
1	13-Aug	57	43	0.8	0.8	1.4
75	15-Aug	31	52	1.7	1.3	1.9
122	16-Aug	31	59	2.9	2.9	3.0
127	17-Aug	32	51	1.8	1.4	2.0
Overall Average				1.7	1.4	2.3

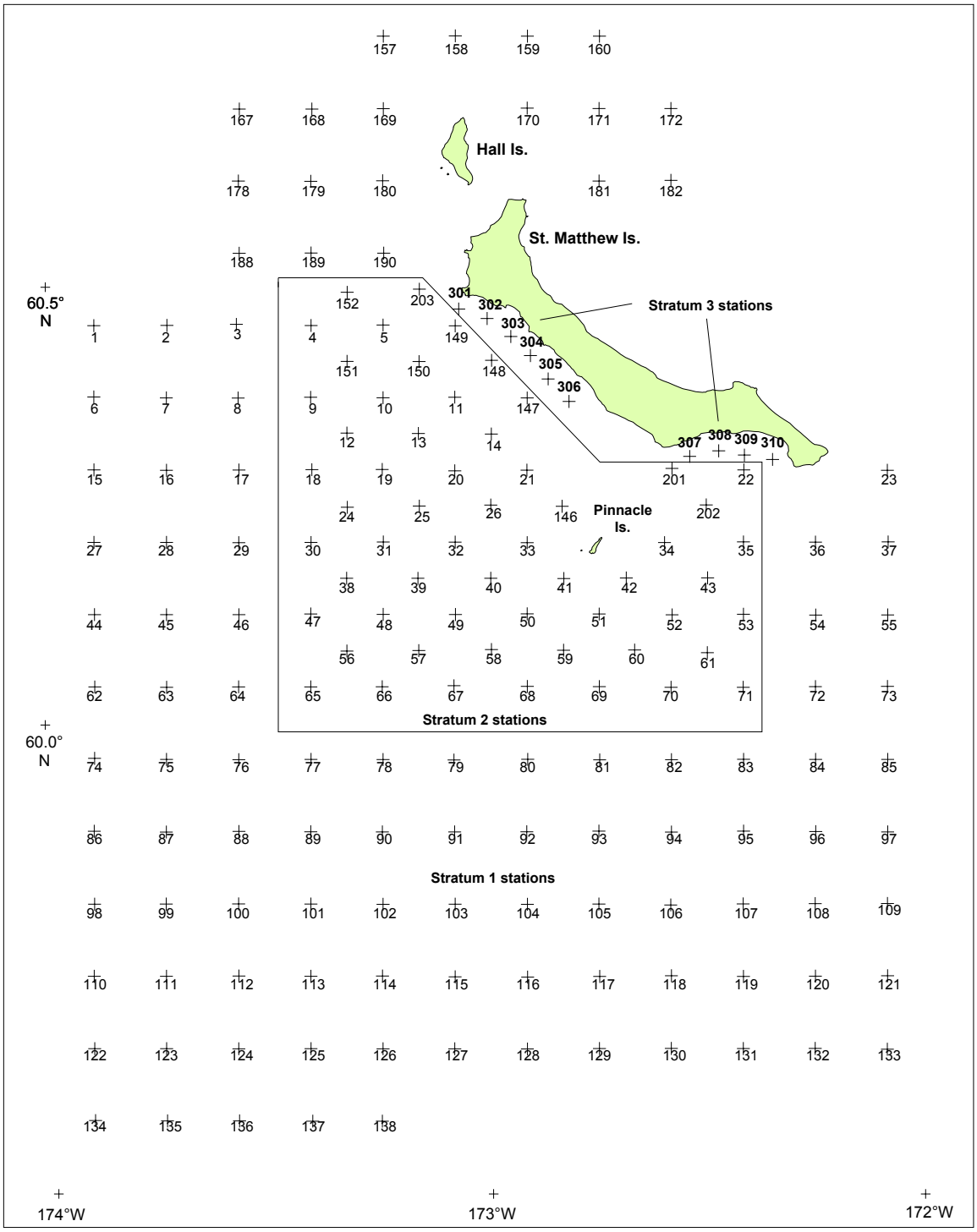

Figure 1.–Survey area, mid-point station locations, and stratum designations for the 176 stations fished during the 2004 St. Matthew Island blue king crab survey.

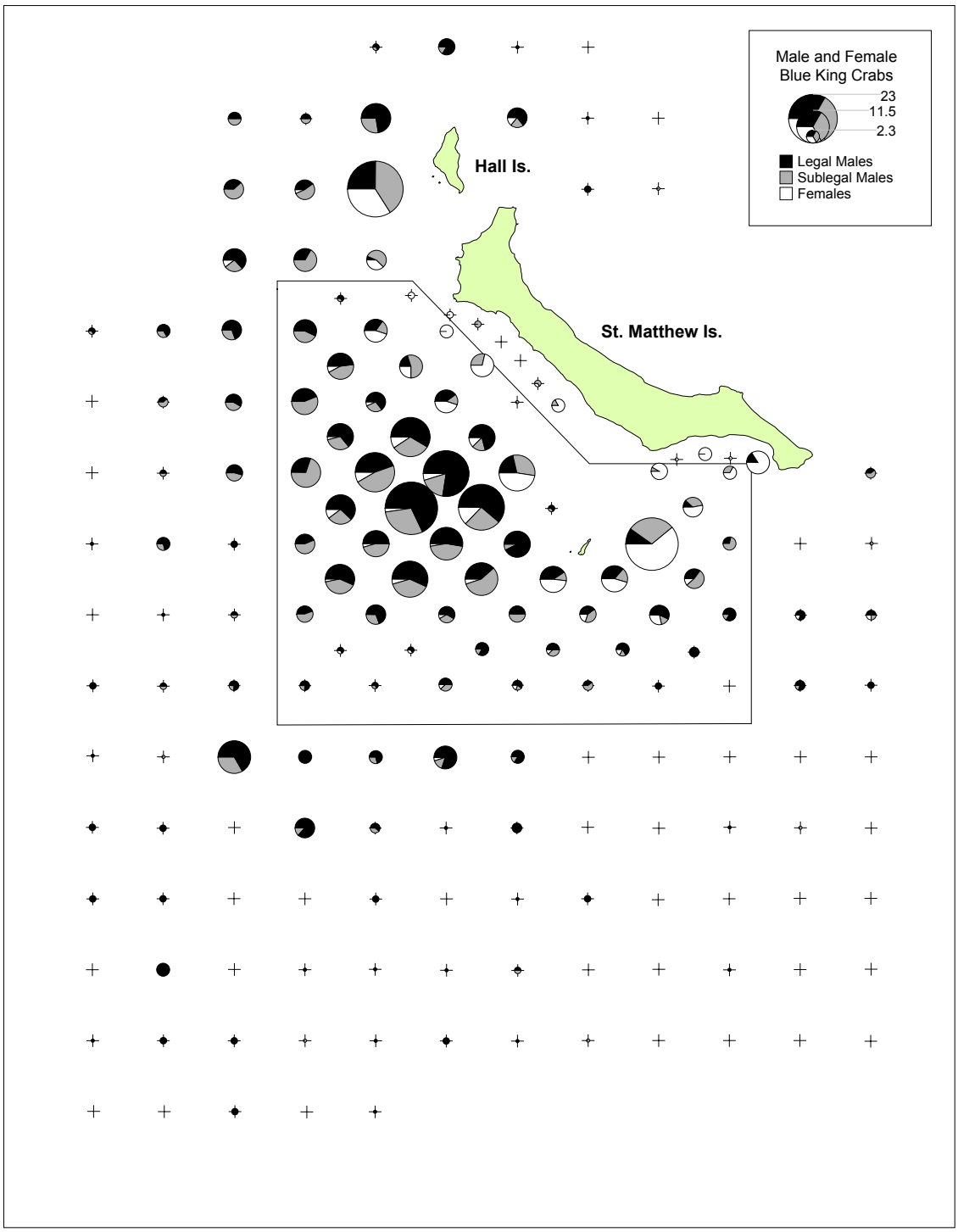

Figure 2.–Male and female blue king crab catch per unit effort (CPUE) by station on the 2004 St. Matthew Island survey.

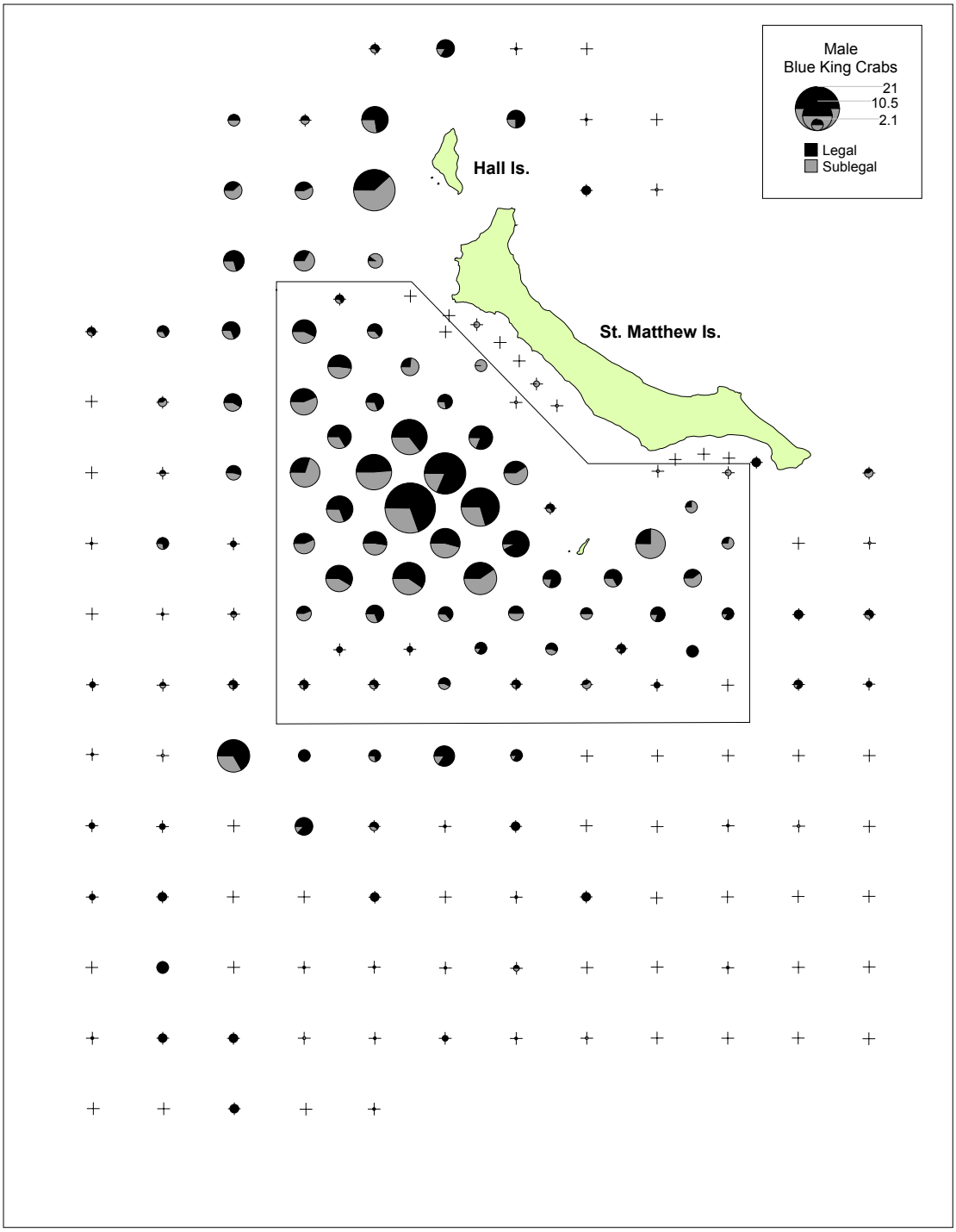

Figure 3.–Legal and sublegal male blue king crab catch per unit effort (CPUE) by station on the 2004 St. Matthew Island survey.

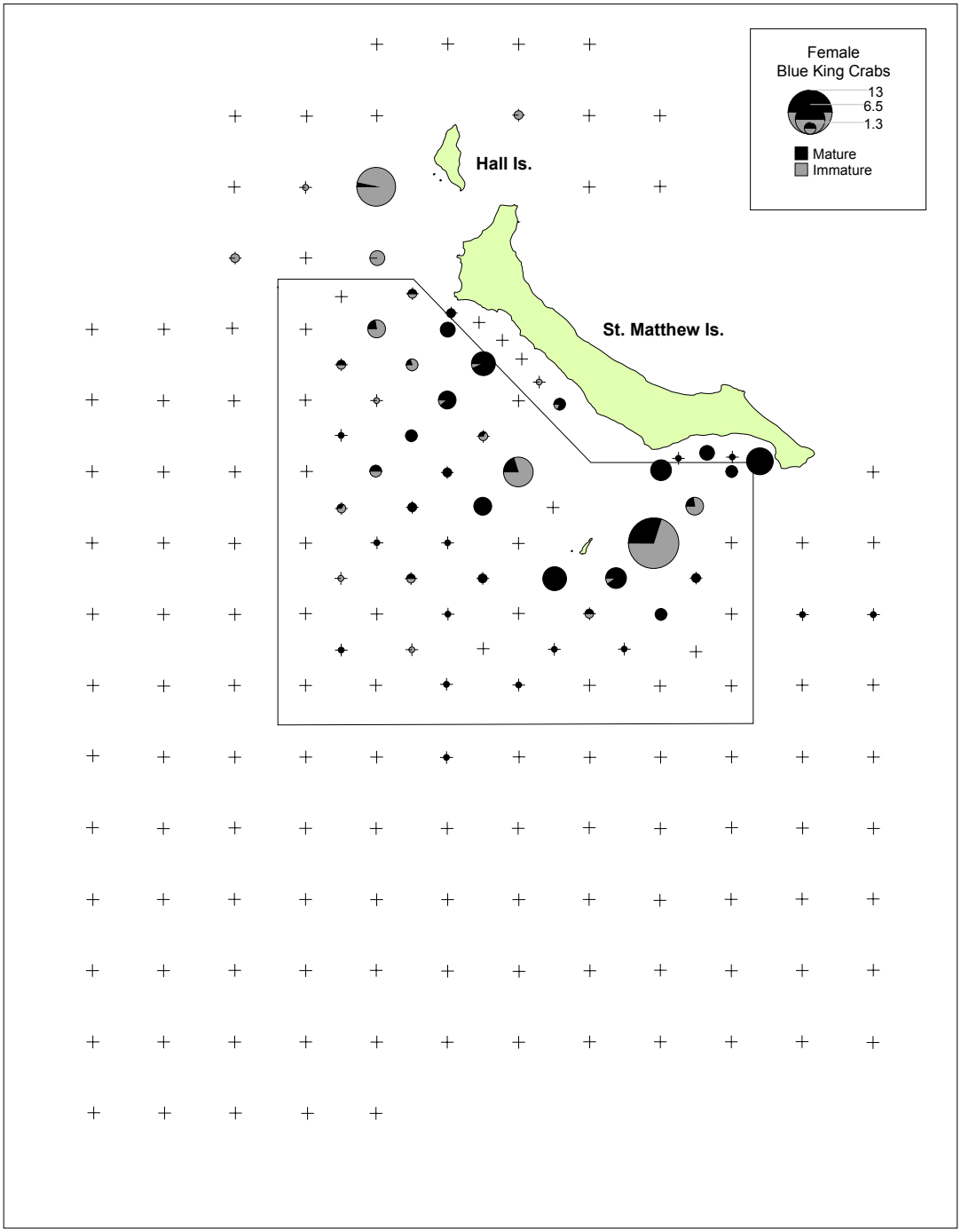

Figure 4.–Mature and immature female blue king crab catch per unit effort (CPUE) by station on the 2004 St. Matthew Island survey.

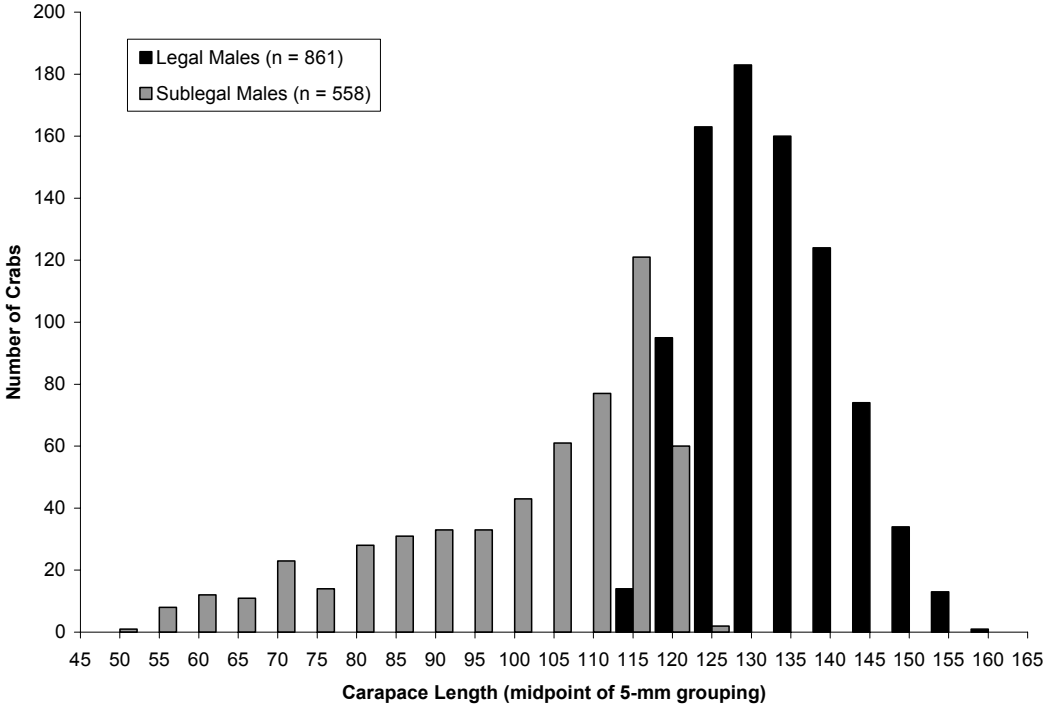

Figure 5.–Carapace length distributions of legal and sublegal male blue king crabs captured in the 2004 St. Matthew Island survey.

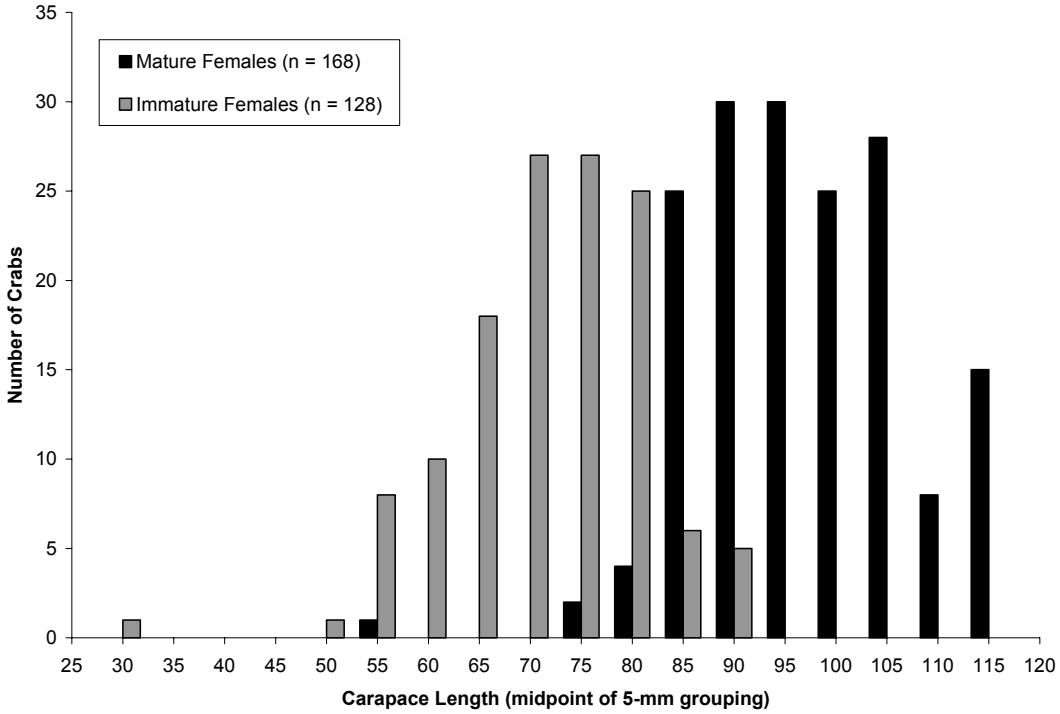

Figure 6.–Carapace length distributions of mature and immature female blue king crabs captured in the 2004 St. Matthew Island survey.

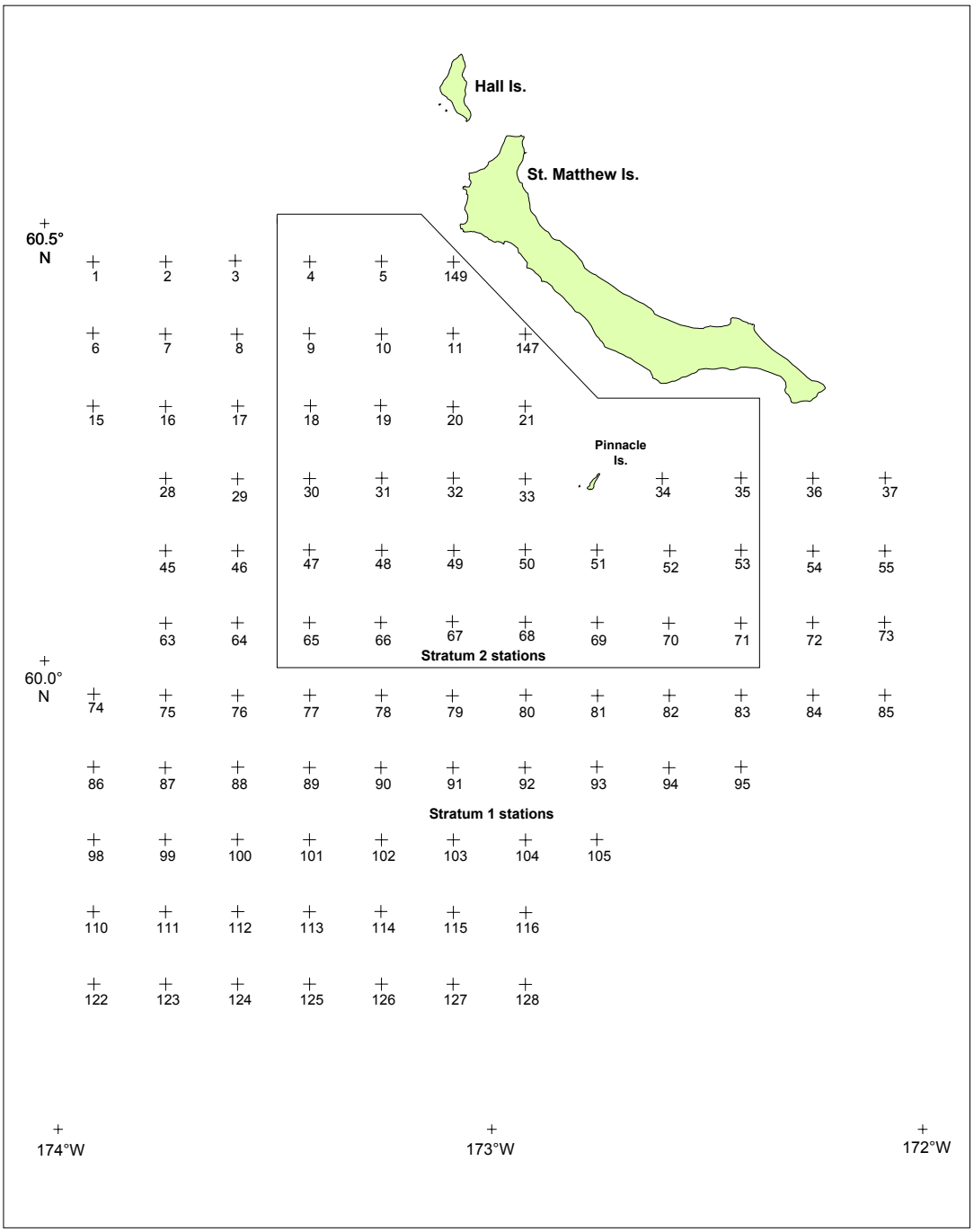

Figure 7.–Location of the 96 stations fished in common during the 1995, 1998, 2001, and 2004 St. Matthew Island blue king crab surveys.

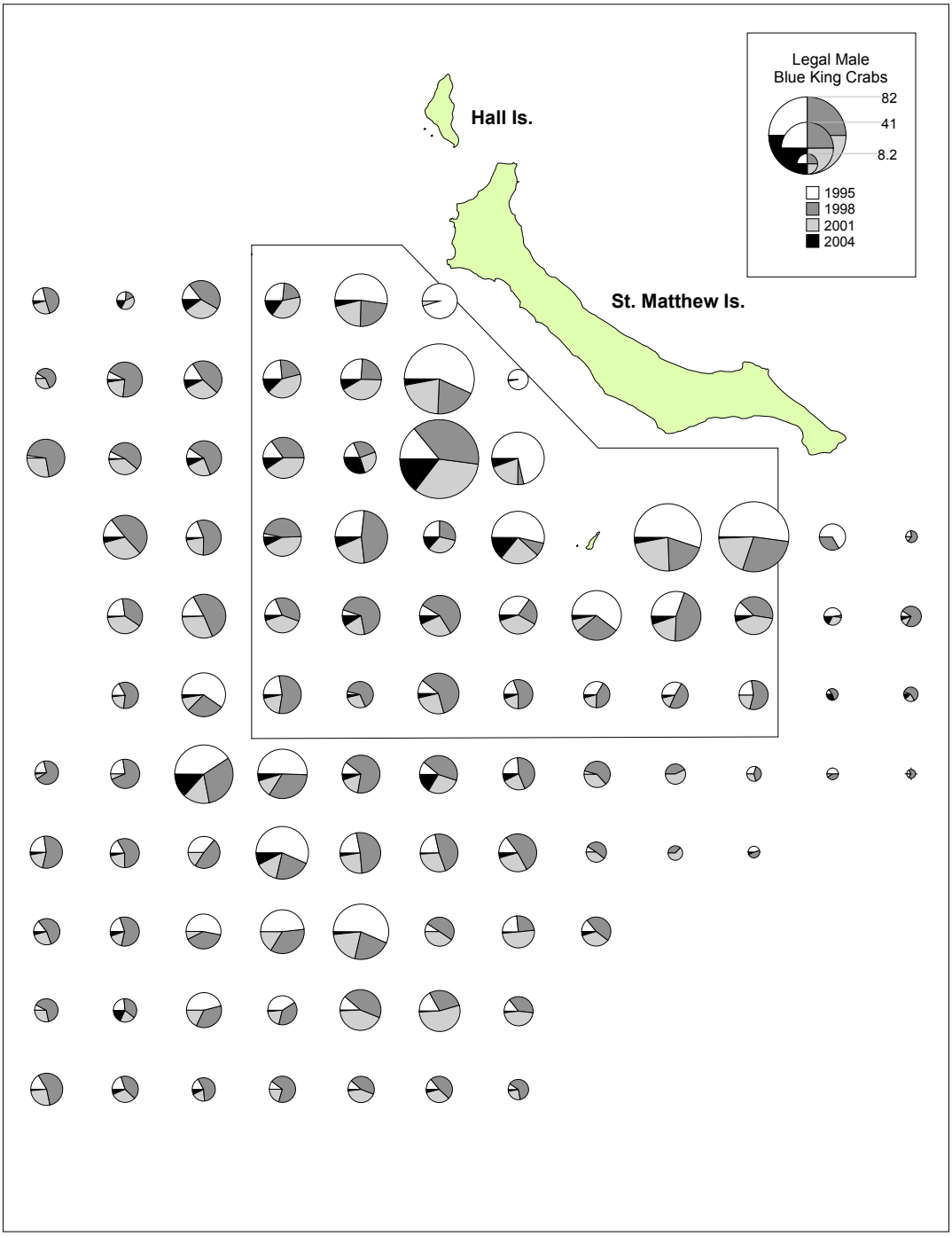

Figure 8.–Legal male blue king crab catch per unit effort (CPUE) by station from the 1995, 1998, 2001, and 2004 St. Matthew Island surveys.

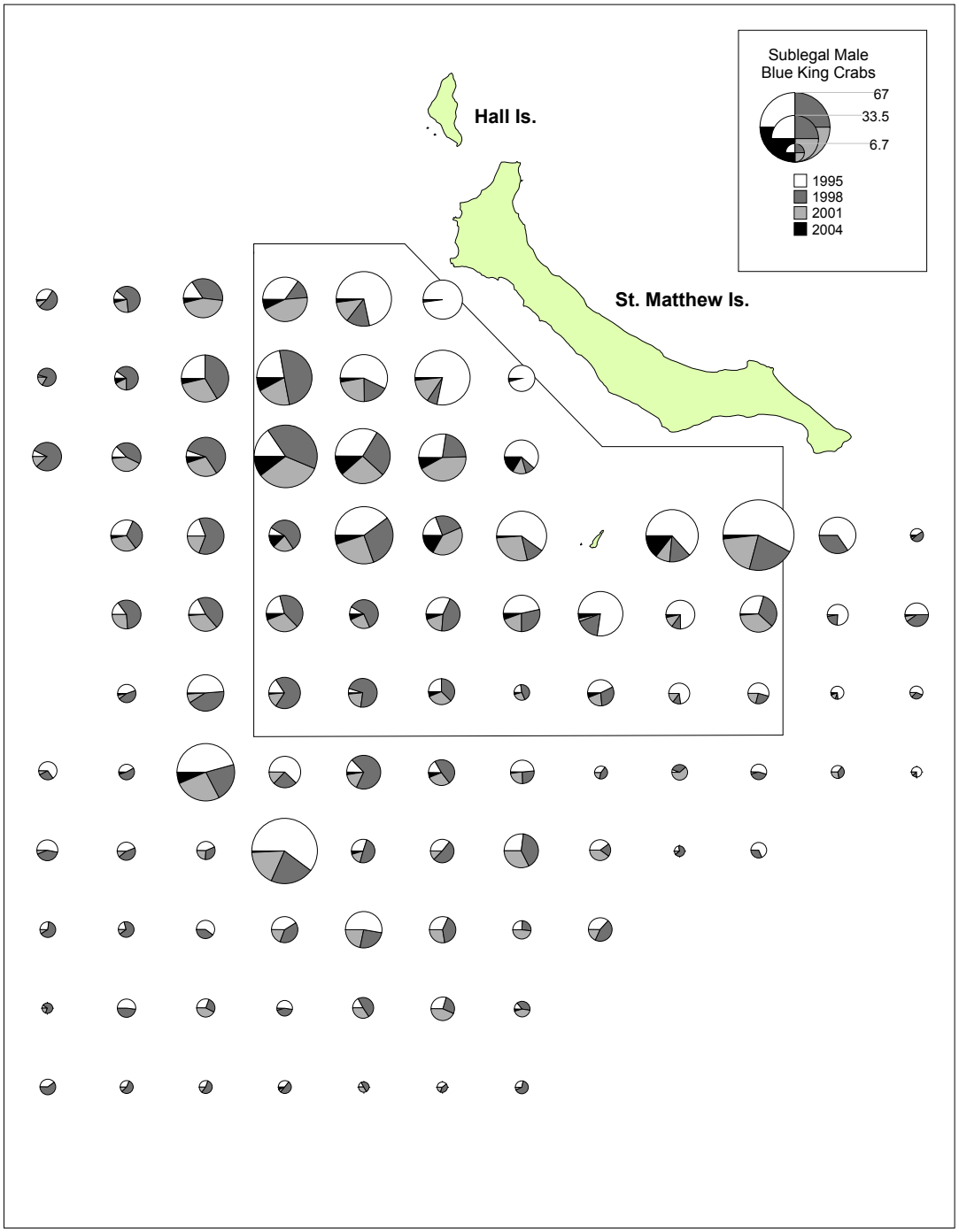

Figure 9.–Sublegal male blue king crab catch per unit effort (CPUE) by station from the 1995, 1998, 2001, and 2004 St. Matthew Island surveys.

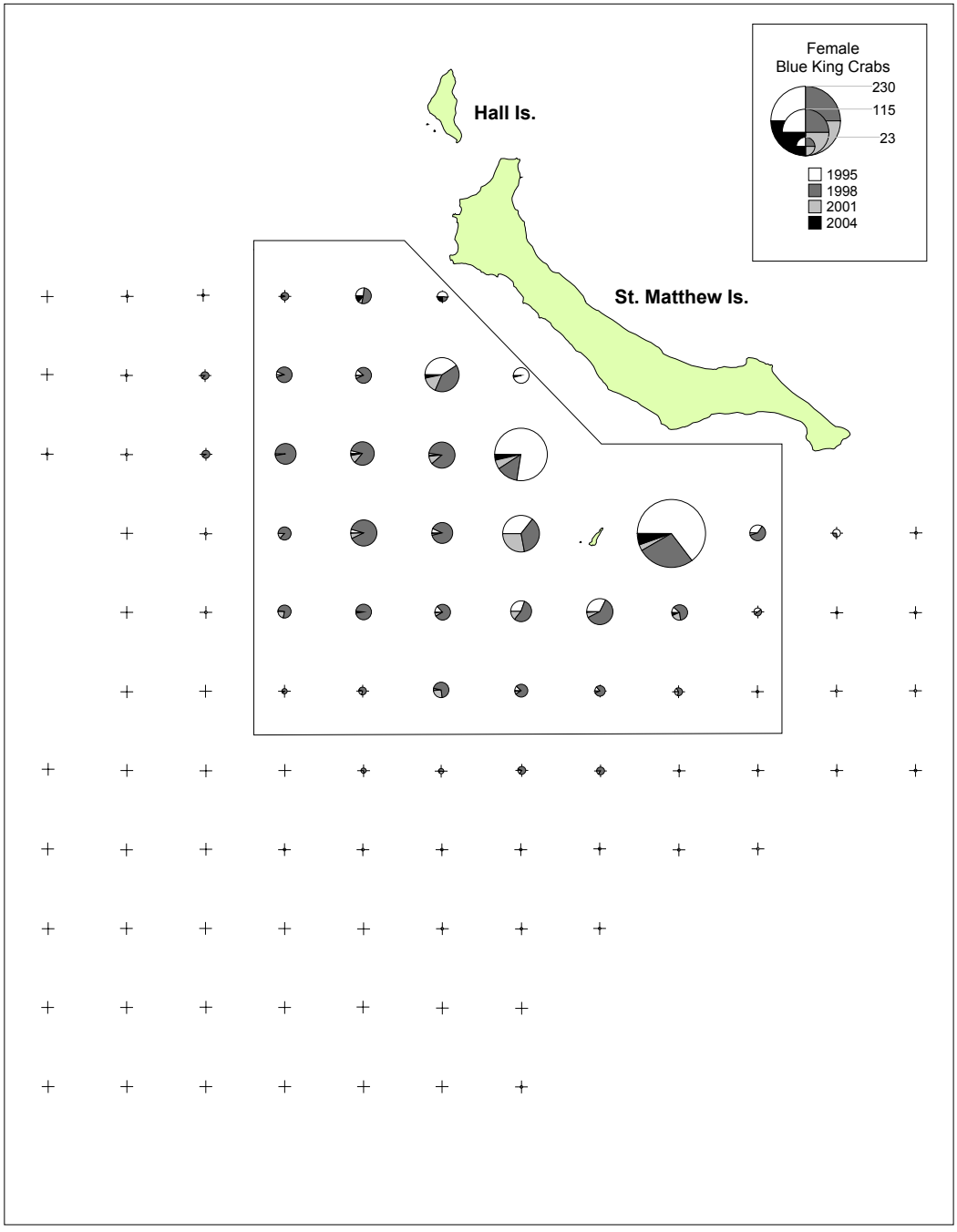

Figure 10.–Female blue king crab catch per unit effort (CPUE) by station from the 1995, 1998, 2001, and 2004 St. Matthew Island surveys.

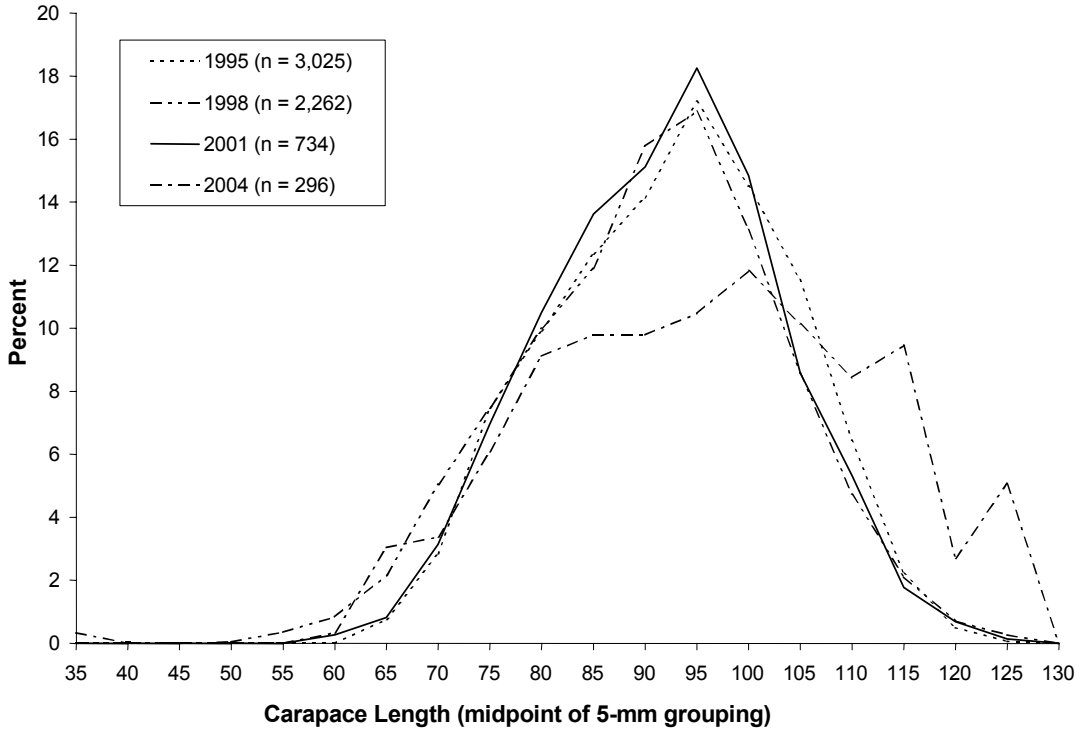

Figure 11.–Carapace length distributions of male blue king crabs captured in the 1995, 1998, 2001, and 2004 St. Matthew Island surveys.

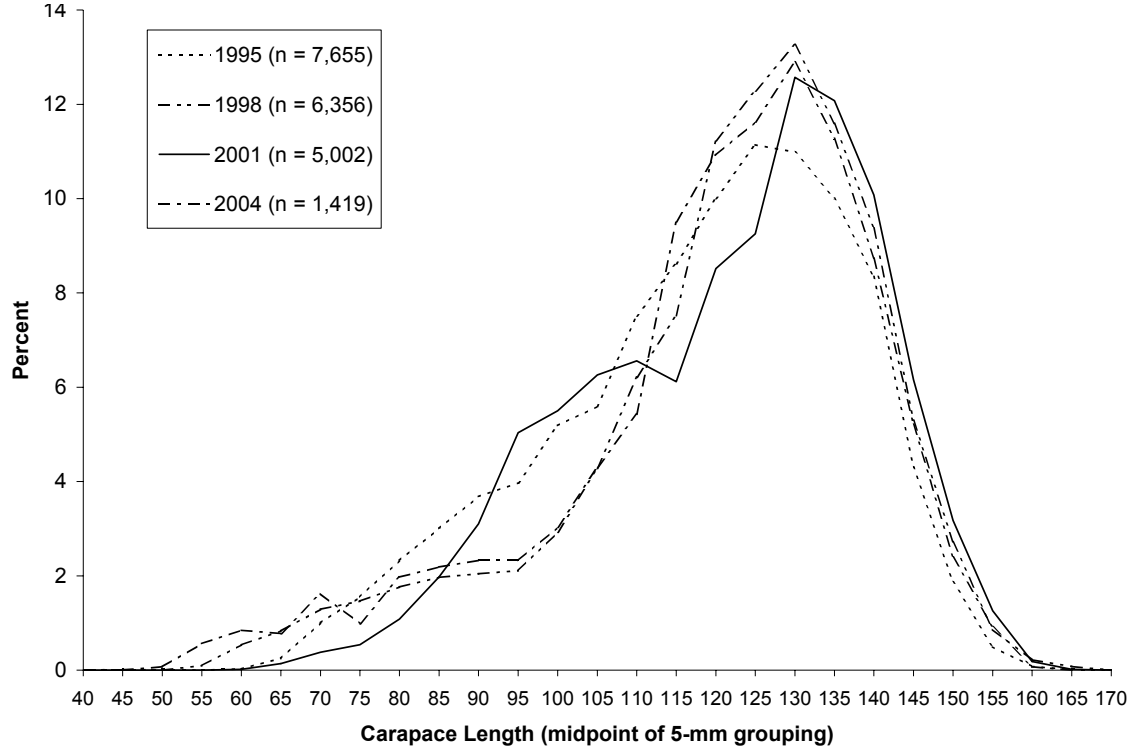

Figure 12.–Carapace length distributions of female blue king crabs captured in the 1995, 1998, 2001, and 2004 St Matthew Island surveys.

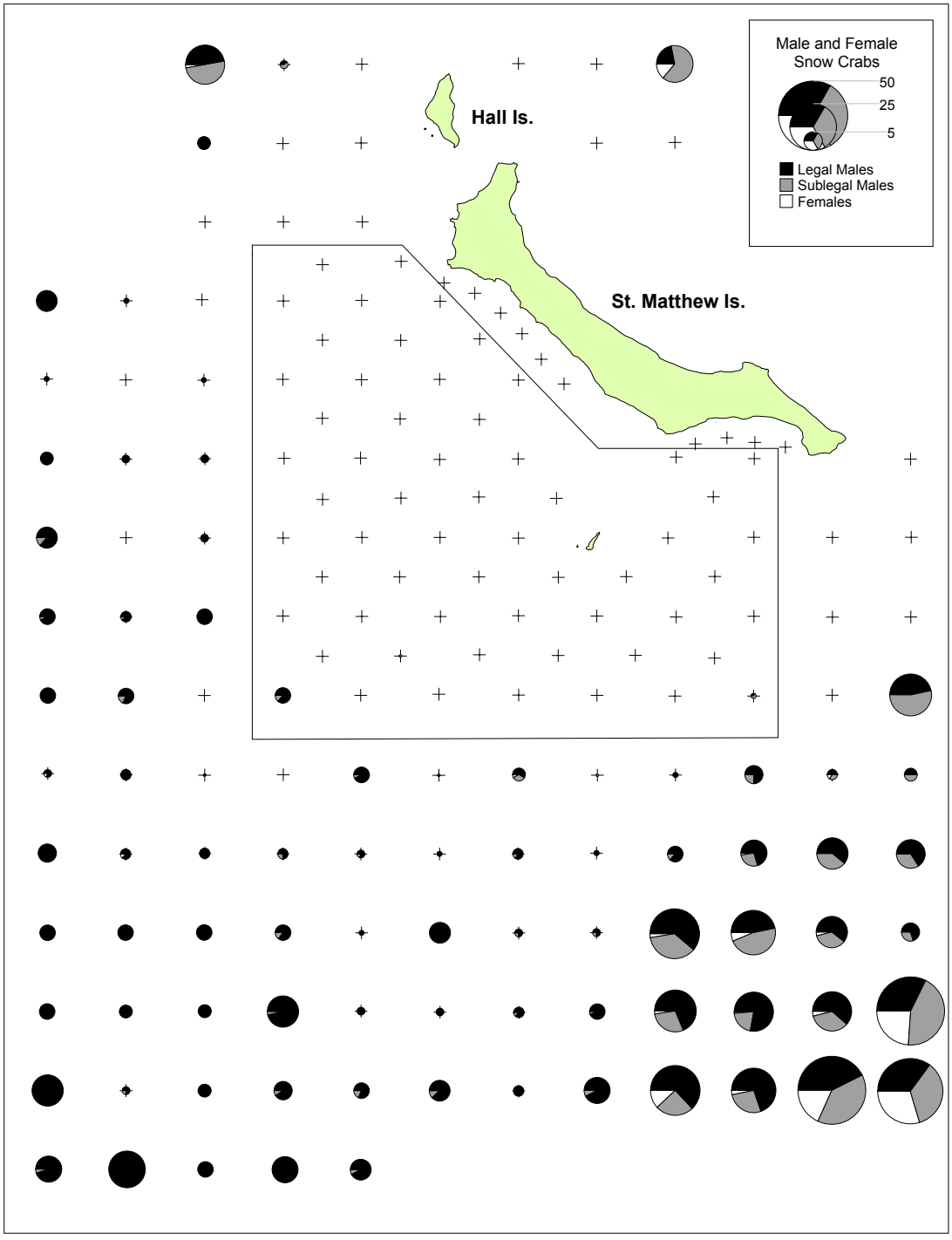

Figure 13.–Male and female snow crab catch per unit effort (CPUE) by station on the 2004 St. Matthew Island survey.

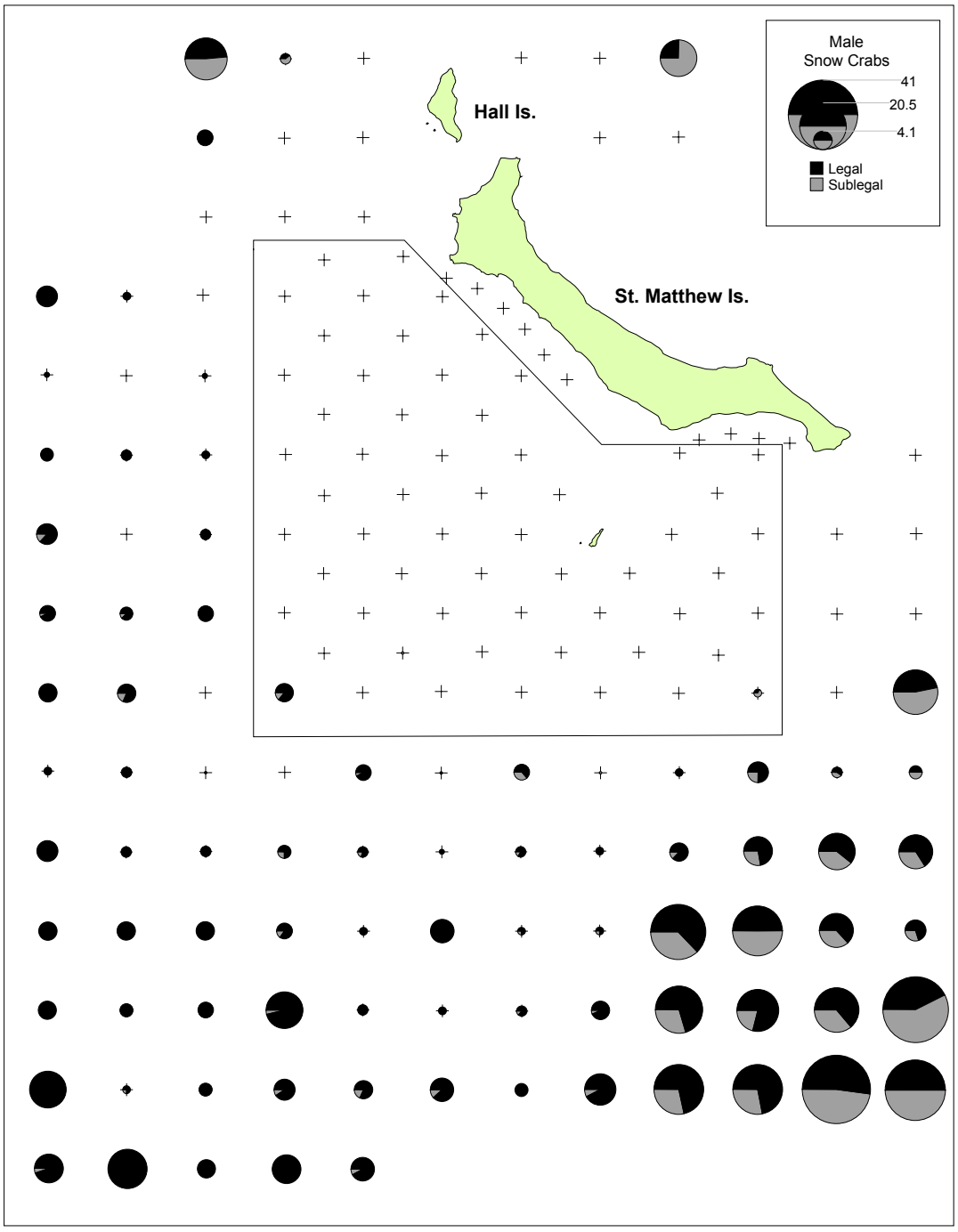

Figure 14.–Legal and sublegal male snow crab catch per unit effort (CPUE) by station on the 2004 St. Matthew Island survey.

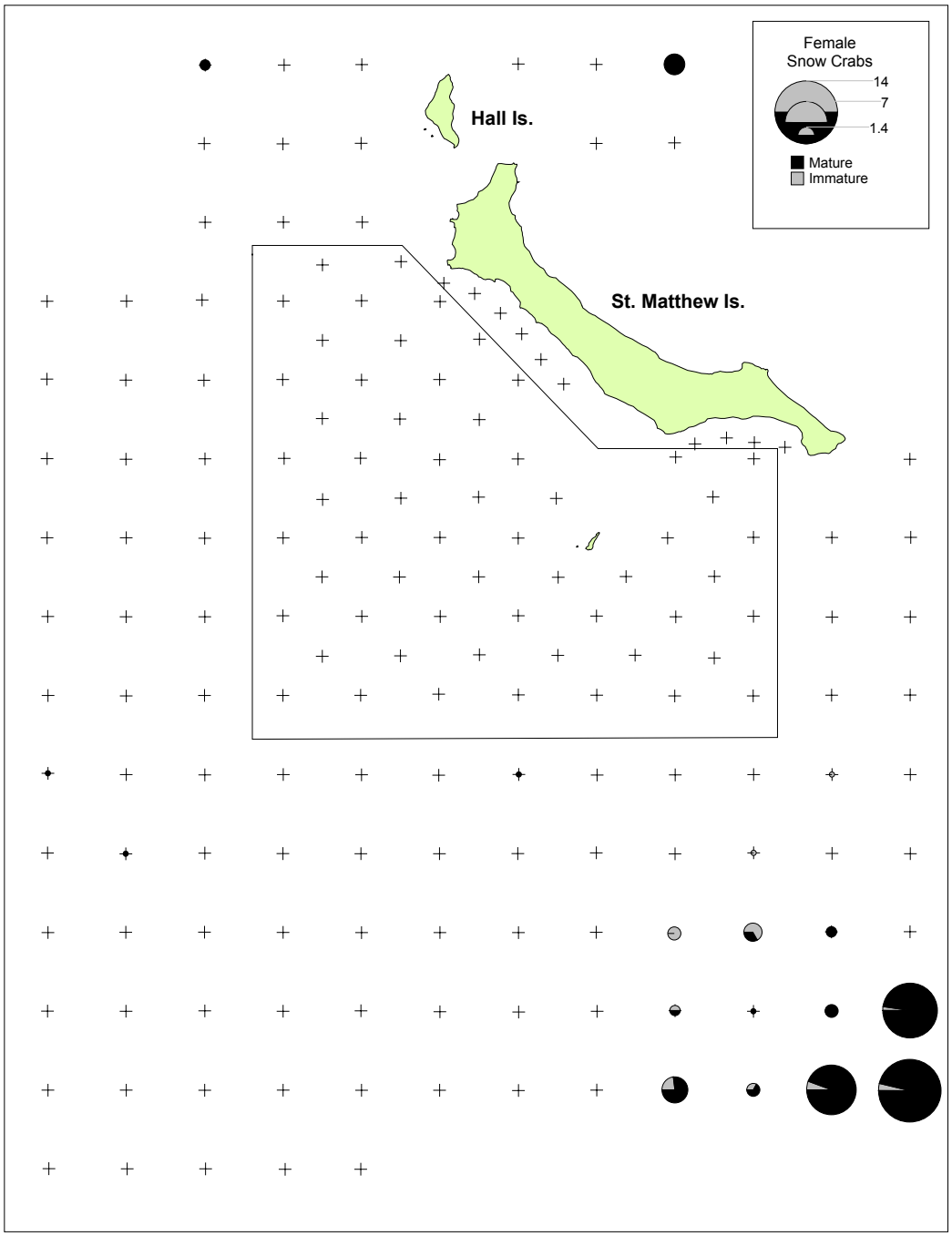

Figure 15.–Mature and immature female snow crab catch per unit effort (CPUE) by station on the 2004 St. Matthew Island survey.

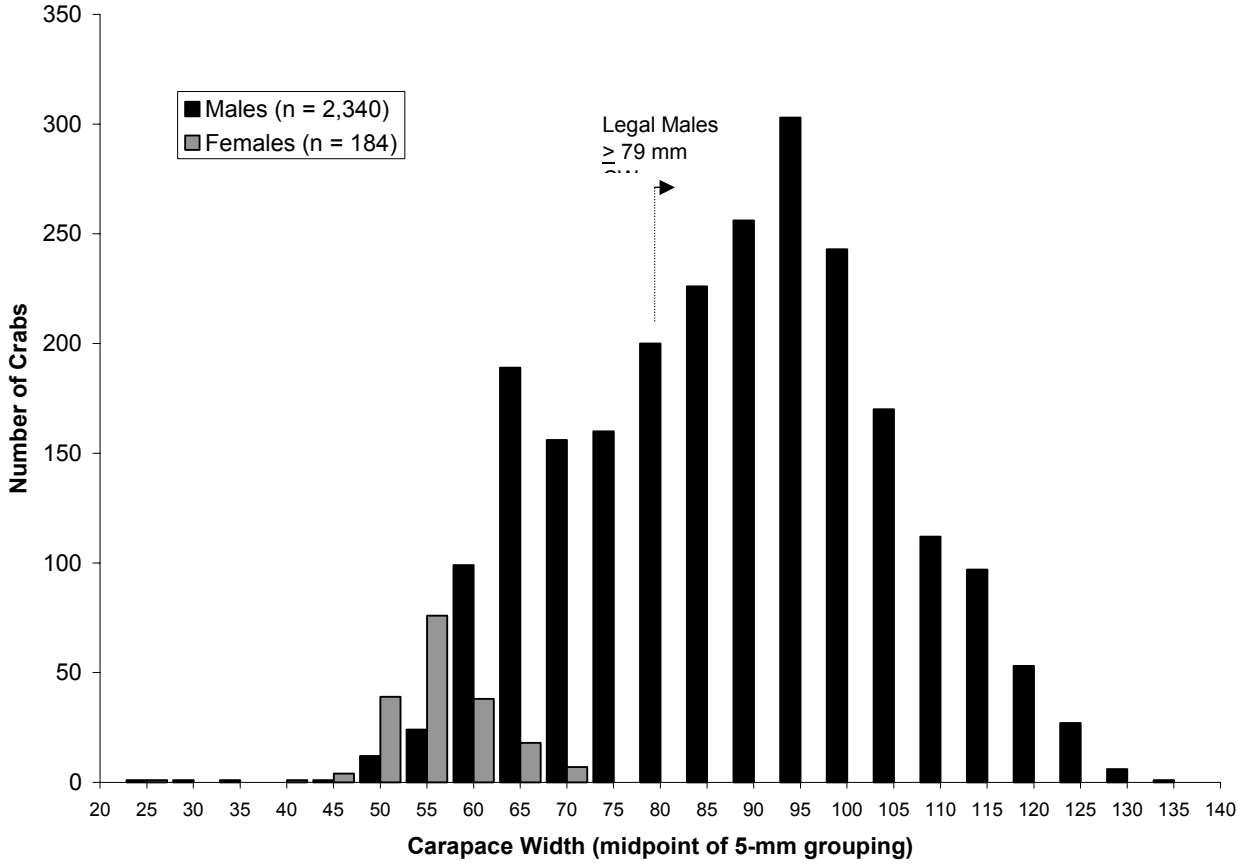

Figure 16.–Carapace width distributions of male and female snow crabs captured in the 2004 St. Matthew Island survey.

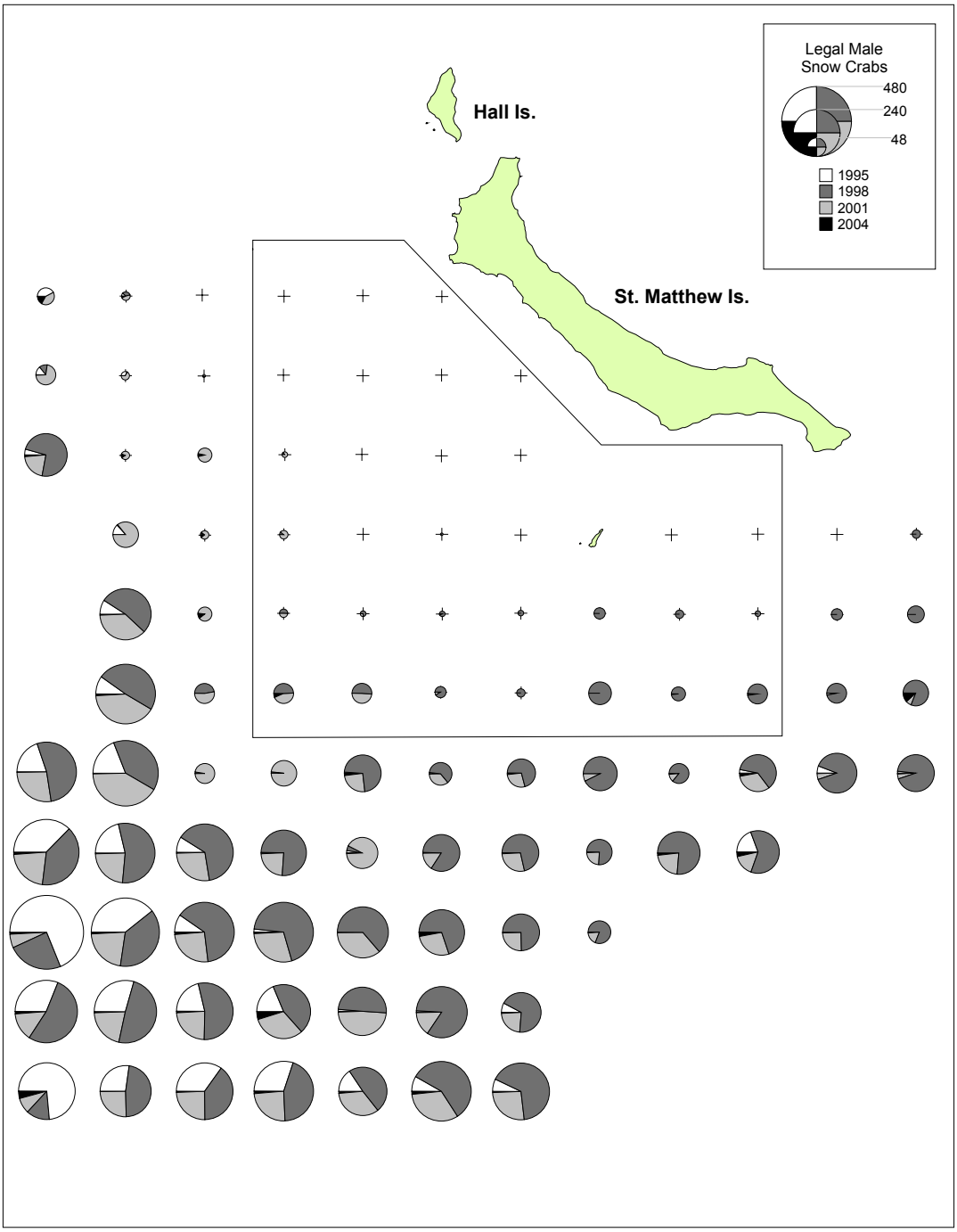

Figure 17.–Legal male snow crab catch per unit effort (CPUE) by station from the 1995, 1998, 2001, and 2004 St. Matthew Island surveys.

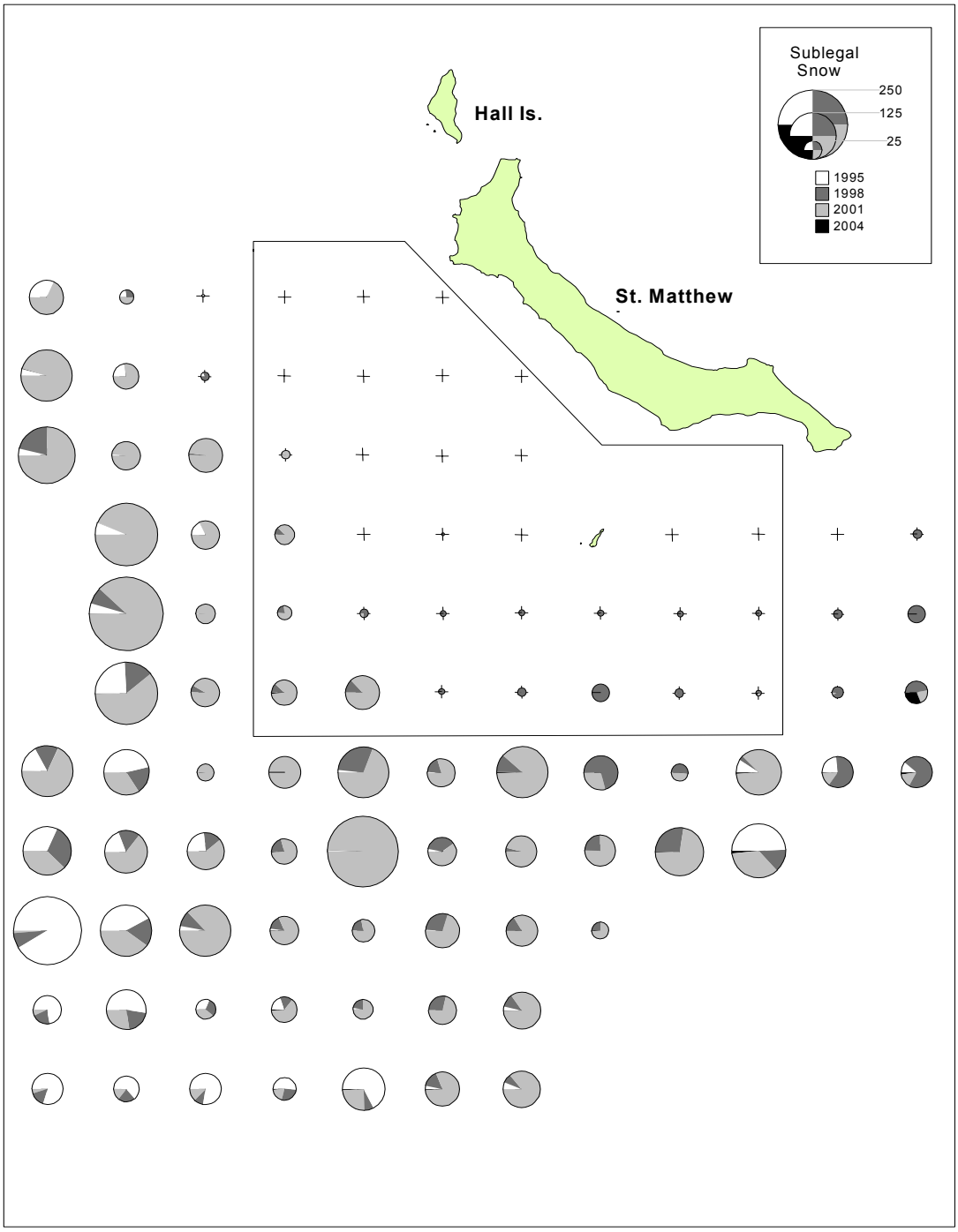

Figure 18.–Sublegal male snow crab catch per unit effort (CPUE) by station from the 1995, 1998, 2001, and 2004 St. Matthew Island surveys.

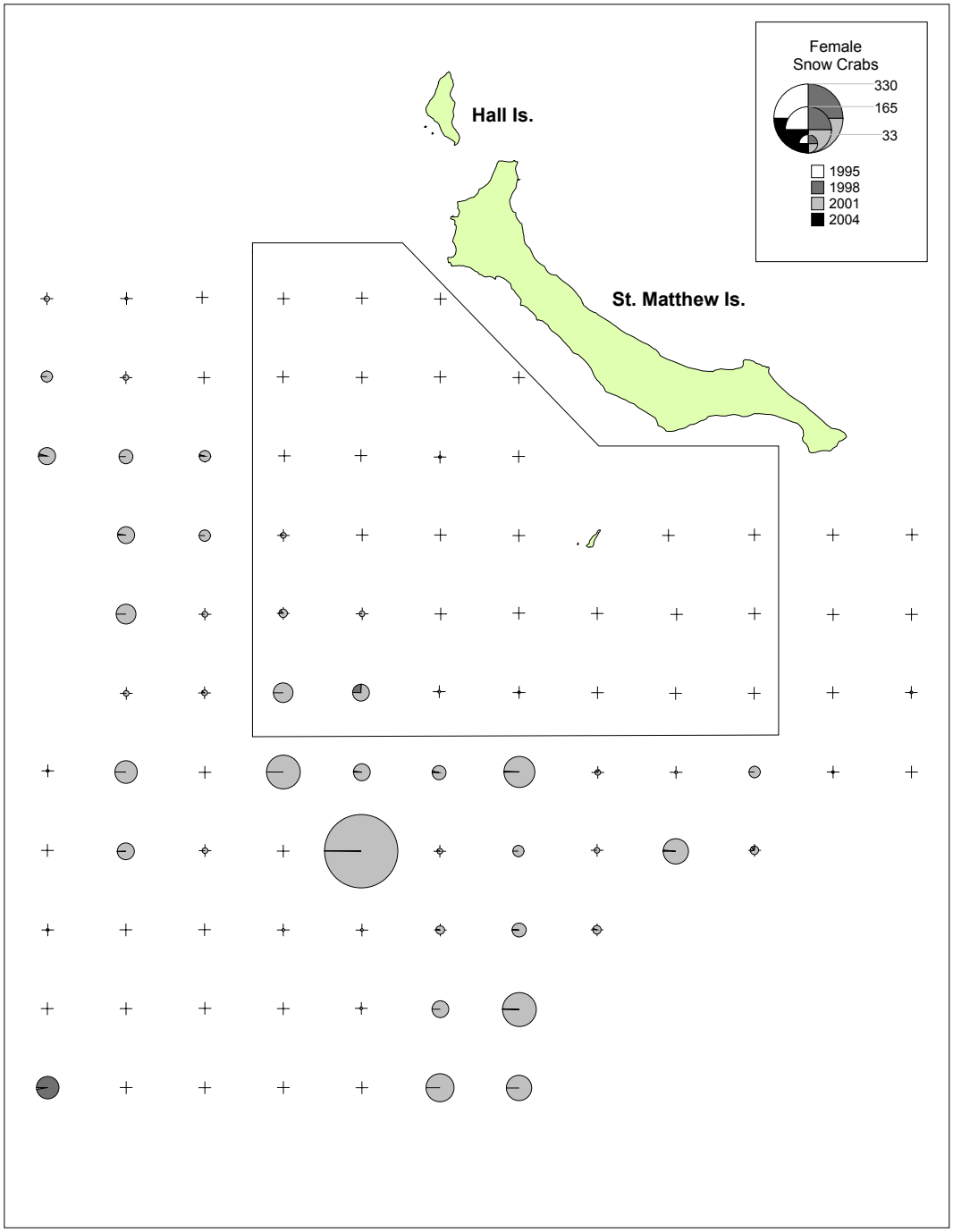

Figure 19.–Female snow crab catch per unit effort (CPUE) by station from the 1995, 1998, 2001, and 2004 St. Matthew Island surveys.

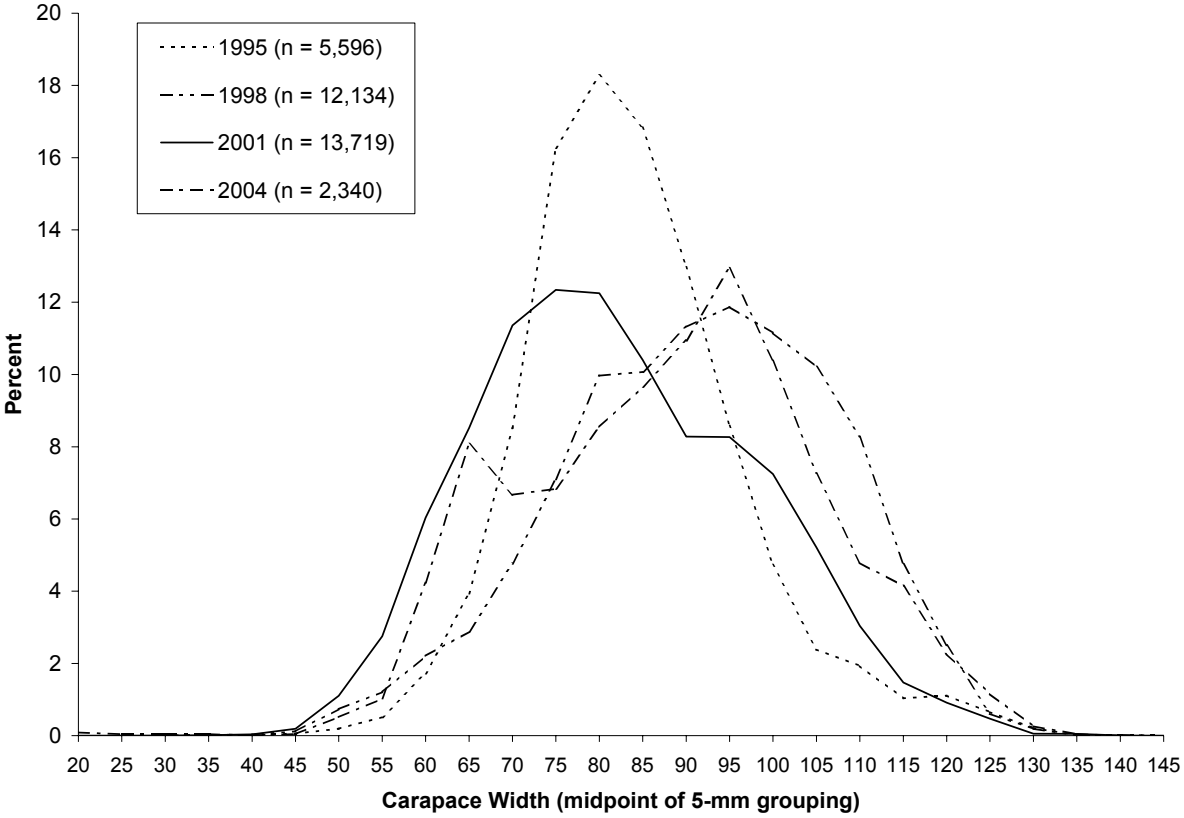

Figure 20.–Carapace width distributions of male snow crabs captured in the 1995, 1998, 2001, and 2004 St. Matthew Island surveys.

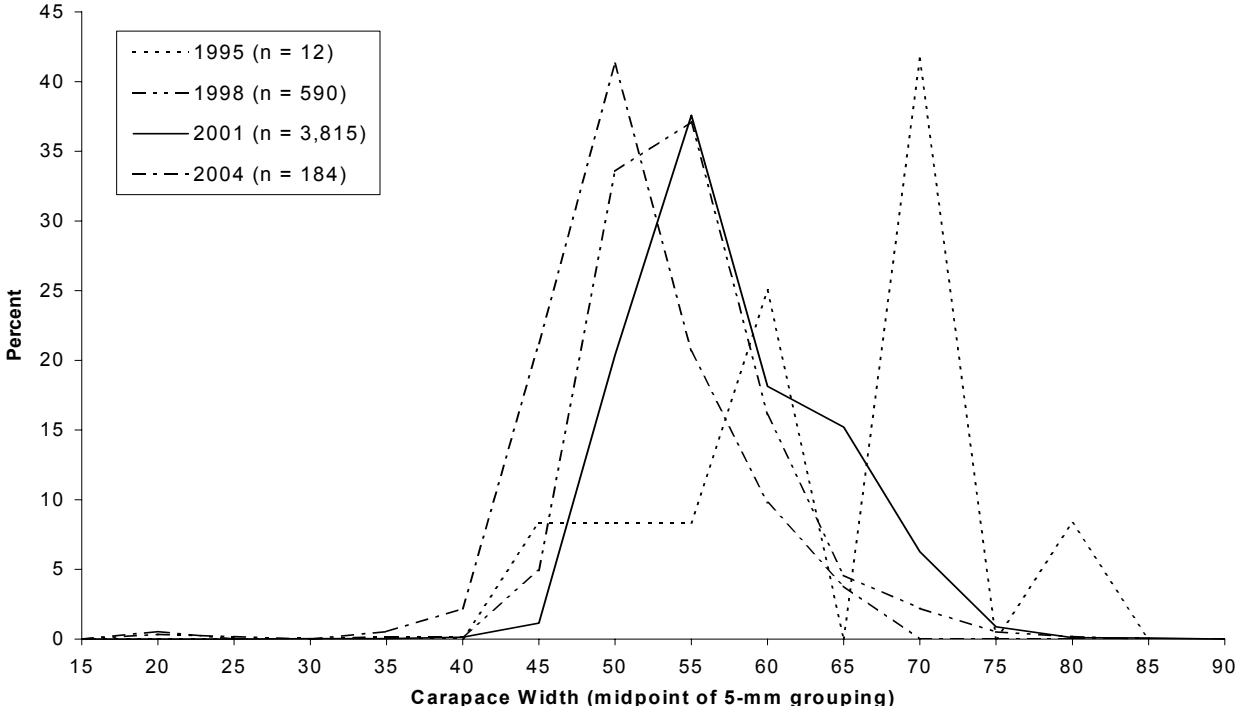

Figure 21.–Carapace width distributions of female snow crabs captured in the 1995, 1998, 2001, and 2004 St. Matthew Island surveys.

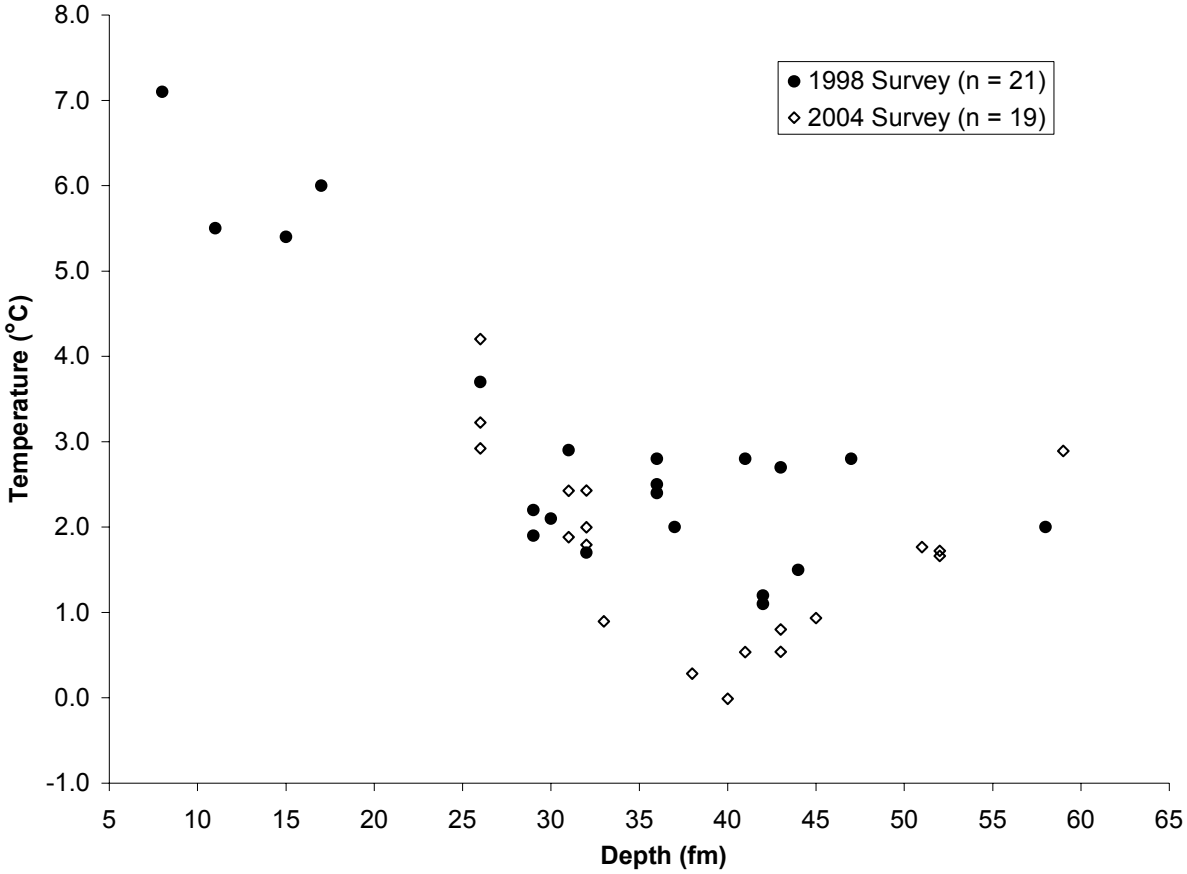

Figure 22.–Average ocean bottom temperatures recorded during the 1998 and 2004 St. Matthew Island blue king crab surveys.

APPENDIX A.
BLUE KING AND SNOW CRAB CATCH, 2004
ST. MATTHEW ISLAND SURVEY

Appendix A1.–Blue king and snow crab catch and catch per unit effort (CPUE) by station from the 2004 St. Matthew Island blue king crab survey.

								Blue King Crabs								Snow Crabs							
								Legal Males		Sublegal Males		Immature Females		Mature Females		Legal Males		Sublegal Males		Immature Females		Mature Females	
Station	Stratum	Date Set	No. Pots	Soak Hrs.	Location N. lat.	Location W. long.	Depth (fms)	No.	CPUE	No.	CPUE	No.	CPUE	No.	CPUE	No.	CPUE	No.	CPUE	No.	CPUE	No.	CPUE
1	1	13-Aug	4	57.1	60.46	173.92	43	2	0.5	1	0.3	0	-	0	-	22	5.5	0	-	0	-	0	-
2	1	9-Aug	4	80.5	60.46	173.75	38	4	1.0	2	0.5	0	-	0	-	3	0.8	0	-	0	-	0	-
3	1	9-Aug	4	79.4	60.46	173.59	35	9	2.3	4	1.0	0	-	0	-	0	-	0	-	0	-	0	-
4	2	9-Aug	4	79.6	60.46	173.42	32	12	3.0	9	2.3	0	-	0	-	0	-	0	-	0	-	0	-
5	2	6-Aug	4	30.5	60.46	173.25	27	7	1.8	4	1.0	7	1.8	2	0.5	0	-	0	-	0	-	0	-
6	1	13-Aug	4	57.2	60.38	173.92	45	0	-	0	-	0	-	0	-	2	0.5	0	-	0	-	0	-
7	1	13-Aug	4	55.8	60.37	173.75	39	2	0.5	3	0.8	0	-	0	-	0	-	0	-	0	-	0	-
8	1	9-Aug	4	79.7	60.37	173.58	35	7	1.8	5	1.3	0	-	0	-	2	0.5	0	-	0	-	0	-
9	2	9-Aug	4	79.6	60.38	173.42	32	11	2.8	14	3.5	0	-	0	-	0	-	0	-	0	-	0	-
10	2	9-Aug	4	79.2	60.37	173.25	31	9	2.3	4	1.0	1	0.3	0	-	0	-	0	-	0	-	0	-
11	2	6-Aug	4	30.1	60.38	173.08	26	8	2.0	3	0.8	1	0.3	8	2.0	0	-	0	-	0	-	0	-
12	2	9-Aug	4	79.4	60.33	173.33	32	16	4.0	8	2.0	0	-	1	0.3	0	-	0	-	0	-	0	-
13	2	6-Aug	4	30.0	60.33	173.17	30	31	7.8	17	4.3	0	-	5	1.3	0	-	0	-	0	-	0	-
14	2	5-Aug	4	76.8	60.33	173.00	26	17	4.3	4	1.0	2	0.5	1	0.3	0	-	0	-	0	-	0	-
15	1	13-Aug	4	57.2	60.29	173.92	48	0	-	0	-	0	-	0	-	9	2.3	0	-	0	-	0	-
16	1	13-Aug	4	56.1	60.29	173.75	42	1	0.3	1	0.3	0	-	0	-	5	1.3	0	-	0	-	0	-
17	1	6-Aug	4	30.0	60.29	173.58	38	6	1.5	5	1.3	0	-	0	-	4	1.0	0	-	0	-	0	-
18	2	6-Aug	4	30.2	60.29	173.41	34	10	2.5	23	5.8	0	-	0	-	0	-	0	-	0	-	0	-
19	2	6-Aug	4	30.0	60.29	173.25	32	21	5.3	22	5.5	2	0.5	2	0.5	0	-	0	-	0	-	0	-
20	2	5-Aug	4	76.7	60.29	173.08	30	48	12.0	11	2.8	0	-	3	0.8	0	-	0	-	0	-	0	-
21	2	5-Aug	4	77.0	60.29	172.92	25	9	2.3	13	3.3	16	4.0	4	1.0	0	-	0	-	0	-	0	-
22	2	1-Aug	4	31.4	60.29	172.42	20	0	-	2	0.5	0	-	4	1.0	0	-	0	-	0	-	0	-

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								Blue King Crabs								Snow Crabs							
								Legal Males		Sublegal Males		Immature Females		Mature Females		Legal Males		Sublegal Males		Immature Females		Mature Females	
Station	Stratum	Date Set	No. Pots	Soak Hrs.	Location N. lat.	W. long.	Depth (fms)	No.	CPUE	No.	CPUE	No.	CPUE	No.	CPUE	No.	CPUE	No.	CPUE	No.	CPUE	No.	CPUE
23	2	1-Aug	4	31.0	60.29	172.08	31	2	0.5	3	0.8	0	-	0	-	0	-	0	-	0	-	0	-
24	2	5-Aug	4	76.5	60.25	173.33	34	18	4.5	8	2.0	2	0.5	1	0.3	0	-	0	-	0	-	0	-
25	2	5-Aug	4	76.7	60.25	173.17	31	57	14.3	25	6.3	0	-	2	0.5	0	-	0	-	0	-	0	-
26	2	5-Aug	4	77.6	60.25	173.00	30	38	9.5	16	4.0	0	-	8	2.0	0	-	0	-	0	-	0	-
27	1	13-Aug	4	57.2	60.21	173.92	49	1	0.3	0	-	0	-	0	-	19	4.8	3	0.8	0	-	0	-
28	1	13-Aug	4	56.4	60.21	173.75	45	5	1.3	2	0.5	0	-	0	-	0	-	0	-	0	-	0	-
29	1	4-Aug	4	31.2	60.21	173.58	41	2	0.5	0	-	0	-	0	-	5	1.3	0	-	0	-	0	-
30	2	4-Aug	4	31.4	60.21	173.42	37	7	1.8	9	2.3	0	-	0	-	0	-	0	-	0	-	0	-
31	2	4-Aug	4	31.4	60.21	173.25	33	11	2.8	10	2.5	0	-	1	0.3	0	-	0	-	0	-	0	-
32	2	5-Aug	4	77.4	60.21	173.08	32	19	4.8	16	4.0	0	-	1	0.3	0	-	0	-	0	-	0	-
33	2	5-Aug	4	77.3	60.21	172.92	30	24	6.0	2	0.5	0	-	0	-	0	-	0	-	0	-	0	-
34	2	1-Aug	4	32.5	60.21	172.60	26	8	2.0	24	6.0	35	8.8	15	3.8	0	-	0	-	0	-	0	-
35	2	31-Jul	4	31.4	60.21	172.42	30	2	0.5	5	1.3	0	-	0	-	0	-	0	-	0	-	0	-
36	1	31-Jul	3	30.4	60.21	172.25	30	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-
37	1	31-Jul	4	30.7	60.21	172.08	31	0	-	1	0.3	0	-	0	-	0	-	0	-	0	-	0	-
38	2	3-Aug	4	30.4	60.17	173.33	37	17	4.3	12	3.0	1	0.3	0	-	0	-	0	-	0	-	0	-
39	2	3-Aug	4	30.3	60.17	173.17	34	25	6.3	17	4.3	1	0.3	1	0.3	0	-	0	-	0	-	0	-
40	2	3-Aug	4	30.3	60.17	173.00	33	15	3.8	22	5.5	0	-	2	0.5	0	-	0	-	0	-	0	-
41	2	2-Aug	4	30.2	60.17	172.83	31	11	2.8	3	0.8	0	-	13	3.3	0	-	0	-	0	-	0	-
42	2	2-Aug	4	29.9	60.17	172.69	30	8	2.0	4	1.0	1	0.3	9	2.3	0	-	0	-	0	-	0	-
43	2	31-Jul	4	30.2	60.17	172.50	31	6	1.5	9	2.3	0	-	2	0.5	0	-	0	-	0	-	0	-
44	1	13-Aug	4	57.2	60.13	173.92	50	0	-	0	-	0	-	0	-	12	3.0	1	0.3	0	-	0	-
45	1	13-Aug	4	56.8	60.13	173.75	47	1	0.3	0	-	0	-	0	-	7	1.8	1	0.3	0	-	0	-

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								Blue King Crabs								Snow Crabs							
								Legal Males		Sublegal Males		Immature Females		Mature Females		Legal Males		Sublegal Males		Immature Females		Mature Females	
Station	Stratum	Date Set	No. Pots	Soak Hrs.	Location N. lat.	W. long.	Depth (fms)	No.	CPUE	No.	CPUE	No.	CPUE	No.	CPUE	No.	CPUE	No.	CPUE	No.	CPUE	No.	CPUE
46	1	4-Aug	4	30.8	60.13	173.58	42	1	0.3	1	0.3	0	-	0	-	13	3.3	0	-	0	-	0	-
47	2	4-Aug	4	30.8	60.13	173.42	39	4	1.0	5	1.3	0	-	0	-	0	-	0	-	0	-	0	-
48	2	3-Aug	4	30.6	60.13	173.25	37	9	2.3	4	1.0	0	-	0	-	0	-	0	-	0	-	0	-
49	2	3-Aug	4	30.7	60.13	173.08	35	7	1.8	4	1.0	0	-	1	0.3	0	-	0	-	0	-	0	-
50	2	2-Aug	4	30.1	60.13	172.92	33	5	1.3	5	1.3	0	-	0	-	0	-	0	-	0	-	0	-
51	2	2-Aug	4	31.3	60.13	172.75	31	4	1.0	4	1.0	1	0.3	1	0.3	0	-	0	-	0	-	0	-
52	2	2-Aug	4	31.6	60.12	172.58	31	8	2.0	2	0.5	0	-	4	1.0	0	-	0	-	0	-	0	-
53	2	31-Jul	4	30.1	60.13	172.42	32	5	1.3	1	0.3	0	-	0	-	0	-	0	-	0	-	0	-
54	1	31-Jul	4	30.8	60.12	172.25	32	4	1.0	0	-	0	-	1	0.3	0	-	0	-	0	-	0	-
55	1	31-Jul	4	30.8	60.12	172.08	32	2	0.5	1	0.3	0	-	1	0.3	0	-	0	-	0	-	0	-
56	2	4-Aug	4	30.0	60.08	173.33	39	2	0.5	0	-	0	-	1	0.3	0	-	0	-	0	-	0	-
57	2	3-Aug	4	30.7	60.08	173.17	37	2	0.5	0	-	1	0.3	0	-	0	-	1	0.3	0	-	0	-
58	2	3-Aug	4	30.8	60.08	173.00	35	5	1.3	1	0.3	0	-	0	-	0	-	0	-	0	-	0	-
59	2	2-Aug	4	29.9	60.08	172.83	34	4	1.0	3	0.8	0	-	1	0.3	0	-	0	-	0	-	0	-
60	2	2-Aug	4	31.2	60.08	172.67	33	4	1.0	1	0.3	0	-	1	0.3	0	-	0	-	0	-	0	-
61	2	31-Jul	3	30.0	60.08	172.50	34	4	1.3	0	-	0	-	0	-	0	-	0	-	0	-	0	-
62	1	15-Aug	4	32.2	60.04	173.92	52	2	0.5	0	-	0	-	0	-	17	4.3	0	-	0	-	0	-
63	1	15-Aug	4	30.9	60.04	173.75	50	1	0.3	1	0.3	0	-	0	-	13	3.3	3	0.8	0	-	0	-
64	1	4-Aug	4	30.8	60.04	173.58	45	3	0.8	1	0.3	0	-	0	-	0	-	0	-	0	-	0	-
65	2	4-Aug	4	30.7	60.04	173.42	41	3	0.8	1	0.3	0	-	0	-	12	3.0	2	0.5	0	-	0	-
66	2	4-Aug	4	29.9	60.04	173.25	39	2	0.5	1	0.3	0	-	0	-	0	-	0	-	0	-	0	-
67	2	3-Aug	4	30.8	60.04	173.09	37	4	1.0	3	0.8	0	-	1	0.3	0	-	0	-	0	-	0	-
68	2	3-Aug	4	30.8	60.04	172.92	35	3	0.8	1	0.3	0	-	1	0.3	0	-	0	-	0	-	0	-

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								Blue King Crabs								Snow Crabs							
		Date	No.	Soak	Location		Depth	Legal Males		Sublegal Males		Immature Females		Mature Females		Legal Males		Sublegal Males		Immature Females		Mature Females	
Station	Stratum	Set	Pots	Hrs.	N. lat.	W. long.	(fms)	No.	CPUE	No.	CPUE	No.	CPUE	No.	CPUE	No.	CPUE	No.	CPUE	No.	CPUE	No.	CPUE
69	2	2-Aug	4	31.4	60.04	172.75	35	2	0.5	3	0.8	0	-	0	-	0	-	0	-	0	-	0	-
70	2	30-Jul	4	31.1	60.04	172.58	34	2	0.5	0	-	0	-	0	-	0	-	0	-	0	-	0	-
71	2	30-Jul	4	31.0	60.04	172.42	36	0	-	0	-	0	-	0	-	1	0.3	2	0.5	0	-	0	-
72	1	30-Jul	4	31.1	60.04	172.25	35	4	1.0	1	0.3	0	-	0	-	0	-	0	-	0	-	0	-
73	1	31-Jul	4	30.9	60.04	172.08	36	2	0.5	0	-	0	-	0	-	37	9.3	42	10.5	0	-	0	-
74	1	15-Aug	4	31.9	59.96	173.92	54	1	0.3	0	-	0	-	0	-	4	1.0	0	-	0	-	1	0.3
75	1	15-Aug	4	31.2	59.96	173.75	52	0	-	1	0.3	0	-	0	-	6	1.5	0	-	0	-	0	-
76	1	28-Jul	4	30.4	59.96	173.58	48	26	6.5	13	3.3	0	-	0	-	1	0.3	0	-	0	-	0	-
77	1	28-Jul	4	29.5	59.96	173.42	44	7	1.8	0	-	0	-	0	-	0	-	0	-	0	-	0	-
78	1	28-Jul	4	30.7	59.96	173.25	42	5	1.3	2	0.5	0	-	0	-	12	3.0	1	0.3	0	-	0	-
79	1	29-Jul	4	30.9	59.96	173.09	40	16	4.0	3	0.8	0	-	1	0.3	1	0.3	0	-	0	-	0	-
80	1	29-Jul	4	31.1	59.96	172.92	38	5	1.3	1	0.3	0	-	0	-	7	1.8	4	1.0	0	-	1	0.3
81	1	29-Jul	4	31.2	59.96	172.75	38	0	-	0	-	0	-	0	-	0	-	1	0.3	0	-	0	-
82	1	29-Jul	4	31.4	59.96	172.58	37	0	-	0	-	0	-	0	-	3	0.8	0	0.0	0	-	0	-
83	1	30-Jul	4	30.5	59.96	172.42	39	0	-	0	-	0	-	0	-	15	3.8	5	1.3	0	-	0	-
84	1	30-Jul	4	30.7	59.96	172.25	38	0	-	0	-	0	-	0	-	3	0.8	2	0.5	1	0.3	0	-
85	1	30-Jul	4	30.8	59.96	172.08	37	0	-	0	-	0	-	0	-	5	1.3	5	1.3	0	-	0	-
86	1	15-Aug	4	31.7	59.88	173.92	55	2	0.5	0	-	0	-	0	-	18	4.5	0	-	0	-	0	-
87	1	15-Aug	4	31.3	59.87	173.75	53	2	0.5	0	-	0	-	0	-	6	1.5	0	-	0	-	1	0.3
88	1	28-Jul	4	30.4	59.88	173.58	51	0	-	0	-	0	-	0	-	7	1.8	0	-	0	-	0	-
89	1	28-Jul	4	30.8	59.87	173.42	49	13	3.3	2	0.5	0	-	0	-	6	1.5	2	0.5	0	-	0	-
90	1	29-Jul	4	32.0	59.87	173.25	44	3	0.8	2	0.5	0	-	0	-	4	1.0	1	0.3	0	-	0	-
91	1	29-Jul	4	31.8	59.87	173.08	43	1	0.3	0	-	0	-	0	-	2	0.5	0	-	0	-	0	-

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								Blue King Crabs								Snow Crabs							
								Legal Males		Sublegal Males		Immature Females		Mature Females		Legal Males		Sublegal Males		Immature Females		Mature Females	
Station	Stratum	Date Set	No. Pots	Soak Hrs.	Location N. lat.	W. long.	Depth (fms)	No.	CPUE	No.	CPUE	No.	CPUE	No.	CPUE	No.	CPUE	No.	CPUE	No.	CPUE	No.	CPUE
92	1	29-Jul	4	31.7	59.87	172.92	42	4	1.0	0	-	0	-	0	-	5	1.3	1	0.3	0	-	0	-
93	1	29-Jul	4	31.8	59.88	172.75	41	0	-	0	-	0	-	0	-	3	0.8	0	-	0	-	0	-
94	1	29-Jul	4	31.4	59.87	172.58	41	0	-	0	-	0	-	0	-	13	3.3	2	0.5	0	-	0	-
95	1	30-Jul	4	30.4	59.88	172.42	41	1	0.3	0	-	0	-	0	-	26	6.5	10	2.5	1	0.3	0	-
96	1	30-Jul	4	30.6	59.88	172.25	41	0	-	1	0.3	0	-	0	-	31	7.8	20	5.0	0	-	0	-
97	1	30-Jul	4	30.4	59.87	172.08	40	0	-	0	-	0	-	0	-	29	7.3	15	3.8	0	-	0	-
98	1	15-Aug	4	31.6	59.79	173.92	56	2	0.5	0	-	0	-	0	-	17	4.3	0	-	0	-	0	-
99	1	15-Aug	4	31.3	59.79	173.75	54	3	0.8	0	-	0	-	0	-	14	3.5	0	-	0	-	0	-
100	1	28-Jul	4	30.3	59.79	173.58	53	0	-	0	-	0	-	0	-	17	4.3	0	-	0	-	0	-
101	1	28-Jul	4	30.9	59.79	173.42	51	0	-	0	-	0	-	0	-	11	2.8	2	0.5	0	-	0	-
102	1	27-Jul	4	31.0	59.79	173.25	47	3	0.8	0	-	0	-	0	-	3	0.8	0	-	0	-	0	-
103	1	27-Jul	4	30.0	59.79	173.08	46	0	-	0	-	0	-	0	-	23	5.8	0	-	0	-	0	-
104	1	27-Jul	4	31.8	59.79	172.92	45	1	0.3	0	-	0	-	0	-	3	0.8	1	0.3	0	-	0	-
105	1	27-Jul	4	31.9	59.79	172.75	43	3	0.8	0	-	0	-	0	-	3	0.8	1	0.3	0	-	0	-
106	1	26-Jul	4	26.8	59.79	172.58	43	0	-	0	-	0	-	0	-	71	17.8	42	10.5	3	0.8	0	-
107	1	26-Jul	4	26.5	59.79	172.42	42	0	-	0	-	0	-	0	-	44	11.0	44	11.0	4	1.0	2	0.5
108	1	26-Jul	4	26.8	59.79	172.25	42	0	-	0	-	0	-	0	-	29	7.3	17	4.3	0	-	2	0.5
109	1	26-Jul	4	26.6	59.79	172.08	42	0	-	0	-	0	-	0	-	14	3.5	6	1.5	0	-	0	-
110	1	15-Aug	4	31.4	59.71	173.92	57	0	-	0	-	0	-	0	-	17	4.3	0	-	0	-	0	-
111	1	16-Aug	4	32.4	59.71	173.75	56	7	1.8	0	-	0	-	0	-	10	2.5	0	-	0	-	0	-
112	1	27-Jul	4	30.2	59.71	173.58	54	0	-	0	-	0	-	0	-	12	3.0	0	-	0	-	0	-
113	1	28-Jul	4	29.1	59.71	173.42	52	1	0.3	0	-	0	-	0	-	50	12.5	2	0.5	0	-	0	-
114	1	27-Jul	4	30.9	59.71	173.25	51	1	0.3	0	-	0	-	0	-	5	1.3	0	-	0	-	0	-

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								Blue King Crabs								Snow Crabs							
								Legal Males		Sublegal Males		Immature Females		Mature Females		Legal Males		Sublegal Males		Immature Females		Mature Females	
Station	Stratum	Date Set	No. Pots	Soak Hrs.	Location N. lat.	W. long.	Depth (fms)	No.	CPUE	No.	CPUE	No.	CPUE	No.	CPUE	No.	CPUE	No.	CPUE	No.	CPUE	No.	CPUE
115	1	27-Jul	4	30.8	59.71	173.08	50	1	0.3	0	-	0	-	0	-	4	1.0	0	-	0	-	0	-
116	1	27-Jul	4	30.8	59.71	172.92	47	1	0.3	1	0.3	0	-	0	-	6	1.5	1	0.3	0	-	0	-
117	1	26-Jul	4	27.2	59.71	172.75	47	0	-	0	-	0	-	0	-	14	3.5	1	0.3	0	-	0	-
118	1	26-Jul	4	27.3	59.71	172.58	46	0	-	0	-	0	-	0	-	57	14.3	24	6.0	1	0.3	1	0.3
119	1	26-Jul	4	26.9	59.71	172.42	45	1	0.3	0	-	0	-	0	-	56	14.0	15	3.8	0	-	1	0.3
120	1	26-Jul	4	27.0	59.71	172.25	44	0	-	0	-	0	-	0	-	46	11.5	26	6.5	0	-	3	0.8
121	1	26-Jul	4	26.7	59.71	172.08	43	0	-	0	-	0	-	0	-	61	15.3	82	20.5	1	0.3	44	11.0
122	1	16-Aug	4	31.0	59.63	173.92	59	1	0.3	0	-	0	-	0	-	52	13.0	0	-	0	-	0	-
123	1	16-Aug	4	32.3	59.63	173.75	57	3	0.8	0	-	0	-	0	-	3	0.8	1	0.3	0	-	0	-
124	1	16-Aug	4	32.1	59.63	173.58	55	3	0.8	0	-	0	-	0	-	9	2.3	0	-	0	-	0	-
125	1	16-Aug	4	31.9	59.63	173.42	54	0	-	1	0.3	0	-	0	-	19	4.8	2	0.5	0	-	0	-
126	1	17-Aug	4	31.5	59.63	173.25	54	1	0.3	0	-	0	-	0	-	13	3.3	3	0.8	0	-	0	-
127	1	17-Aug	4	31.4	59.62	173.08	51	2	0.5	0	-	0	-	0	-	22	5.5	3	0.8	0	-	0	-
128	1	17-Aug	4	31.3	59.62	172.92	50	1	0.3	0	-	0	-	0	-	8	2.0	0	-	0	-	0	-
129	1	17-Aug	4	31.0	59.63	172.75	47	0	-	1	0.3	0	-	0	-	36	9.0	3	0.8	0	-	0	-
130	1	17-Aug	4	30.8	59.63	172.58	46	0	-	0	-	0	-	0	-	68	17.0	27	6.8	3	0.8	10	2.5
131	1	17-Aug	4	30.7	59.63	172.42	45	0	-	0	-	0	-	0	-	64	16.0	25	6.3	1	0.3	2	0.5
132	1	17-Aug	4	30.4	59.63	172.25	44	0	-	0	-	0	-	0	-	84	21.0	77	19.3	2	0.5	34	8.5
133	1	17-Aug	4	30.0	59.62	172.08	43	0	-	0	-	0	-	0	-	64	16.0	64	16.0	2	0.5	52	13.0
134	1	16-Aug	4	31.2	59.54	173.91	59	0	-	0	-	0	-	0	-	36	9.0	2	0.5	0	-	0	-
135	1	16-Aug	4	31.3	59.54	173.75	58	0	-	0	-	0	-	0	-	62	15.5	0	-	0	-	0	-
136	1	16-Aug	4	31.4	59.54	173.58	56	3	0.8	0	-	0	-	0	-	17	4.3	0	-	0	-	0	-
137	1	16-Aug	4	31.6	59.54	173.41	55	0	-	0	-	0	-	0	-	34	8.5	0	-	0	-	0	-

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								Blue King Crabs								Snow Crabs							
								Legal Males		Sublegal Males		Immature Females		Mature Females		Legal Males		Sublegal Males		Immature Females		Mature Females	
		Date	No.	Soak	Location		Depth																
Station	Stratum	Set	Pots	Hrs.	N. lat.	W. long.	(fms)	No.	CPUE	No.	CPUE	No.	CPUE	No.	CPUE	No.	CPUE	No.	CPUE	No.	CPUE	No.	CPUE
138	1	17-Aug	4	31.8	59.54	173.25	53	1	0.3	0	-	0	-	0	-	23	5.8	2	0.5	0	-	0	-
146	2	5-Aug	4	77.2	60.25	172.84	24	2	0.5	1	0.3	0	-	0	-	0	-	0	-	0	-	0	-
147	2	8-Aug	4	31.1	60.37	172.92	19	0	-	1	0.3	0	-	0	-	0	-	0	-	0	-	0	-
148	2	8-Aug	4	30.6	60.42	173.00	22	0	-	6	1.5	1	0.3	14	3.5	0	-	0	-	0	-	0	-
149	2	8-Aug	4	30.3	60.46	173.08	18	0	-	0	-	0	-	7	1.8	0	-	0	-	0	-	0	-
150	2	6-Aug	4	30.4	60.42	173.17	27	4	1.0	11	2.8	4	1.0	1	0.3	0	-	0	-	0	-	0	-
151	2	9-Aug	4	79.0	60.42	173.33	31	12	3.0	11	2.8	1	0.3	1	0.3	0	-	0	-	0	-	0	-
152	2	9-Aug	4	79.8	60.50	173.33	31	2	0.5	1	0.3	0	-	0	-	0	-	0	-	0	-	0	-
157	2	12-Aug	4	51.1	60.79	173.25	37	2	0.5	1	0.3	0	-	0	-	3	0.8	1	0.3	0	-	0	-
158	2	12-Aug	4	51.5	60.79	173.08	36	10	2.5	2	0.5	0	-	0	-	8	2.0	2	0.5	0	-	0	-
159	2	12-Aug	4	51.8	60.79	172.92	33	1	0.3	0	-	0	-	0	-	0	-	0	-	0	-	0	-
160	2	12-Aug	4	52.0	60.79	172.75	31	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-
167	2	10-Aug	4	30.9	60.71	173.58	37	4	1.0	4	1.0	0	-	0	-	34	8.5	36	9.0	0	-	2	0.5
168	2	10-Aug	4	31.1	60.71	173.41	35	2	0.5	2	0.5	0	-	0	-	2	0.5	3	0.8	0	-	0	-
169	2	10-Aug	4	31.3	60.71	173.25	34	21	5.3	8	2.0	0	-	0	-	0	-	0	-	0	-	0	-
170	2	12-Aug	4	52.2	60.71	172.92	32	9	2.3	3	0.8	2	0.5	0	-	0	-	0	-	0	-	0	-
171	2	12-Aug	4	52.2	60.71	172.75	26	1	0.3	0	-	0	-	0	-	0	-	0	-	0	-	0	-
172	2	12-Aug	4	52.4	60.71	172.58	29	0	-	0	-	0	-	0	-	14	3.5	41	10.3	0	-	9	2.3
178	2	10-Aug	4	31.1	60.32	173.58	36	5	1.3	8	2.0	0	-	0	-	12	3.0	0	-	0	-	0	-
179	2	10-Aug	4	30.9	60.62	173.42	33	6	1.5	8	2.0	1	0.3	0	-	0	-	0	-	0	-	0	-
180	2	10-Aug	4	30.4	60.62	173.25	32	23	5.8	37	9.3	30	7.5	1	0.3	0	-	0	-	0	-	0	-
181	2	12-Aug	4	52.7	60.62	172.75	26	3	0.8	0	-	0	-	0	-	0	-	0	-	0	-	0	-
182	2	12-Aug	4	52.9	60.63	172.58	22	0	-	1	0.3	0	-	0	-	0	-	0	-	0	-	0	-

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								Blue King Crabs								Snow Crabs							
								Legal Males		Sublegal Males		Immature Females		Mature Females		Legal Males		Sublegal Males		Immature Females		Mature Females	
Station	Stratum	Date Set	No. Pots	Soak Hrs.	Location N. lat.	W. long.	Depth (fms)	No.	CPUE	No.	CPUE	No.	CPUE	No.	CPUE	No.	CPUE	No.	CPUE	No.	CPUE	No.	CPUE
188	2	10-Aug	4	30.0	60.54	173.58	35	12	3.0	5	1.3	2	0.5	0	-	0	-	0	-	0	-	0	-
189	2	10-Aug	4	30.2	60.54	173.42	32	6	1.5	12	3.0	0	-	0	-	0	-	0	-	0	-	0	-
190	2	10-Aug	4	30.4	60.54	173.25	26	1	0.3	9	2.3	6	1.5	0	-	0	-	0	-	0	-	0	-
201	2	1-Aug	4	32.0	60.29	172.58	17	0	-	1	0.3	0	0.0	11	2.8	0	-	0	-	0	-	0	-
202	2	1-Aug	4	32.4	60.25	172.50	26	2	0.5	6	1.5	7	1.8	2	0.5	0	-	0	-	0	-	0	-
203	2	6-Aug	4	30.8	60.50	173.17	15	0	-	0	-	1	0.3	1	0.3	0	-	0	-	0	-	0	-
301	3	8-Aug	4	30.1	60.48	173.07	14	0	-	0	-	0	-	2	0.5	0	-	0	-	0	-	0	-
302	3	8-Aug	4	30.6	60.47	173.01	15	0	-	2	0.5	0	-	0	-	0	-	0	-	0	-	0	-
303	3	8-Aug	4	30.5	60.45	172.95	15	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-
304	3	8-Aug	4	30.9	60.42	172.91	15	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-
305	3	8-Aug	4	31.0	60.40	172.87	13	0	-	2	0.5	1	0.3	0	-	0	-	0	-	0	-	0	-
306	3	8-Aug	4	31.2	60.37	172.82	14	0	-	1	0.3	1	0.3	4	1.0	0	-	0	-	0	-	0	-
307	3	1-Aug	4	31.8	60.31	172.54	12	0	-	0	-	0	-	1	0.3	0	-	0	-	0	-	0	-
308	3	1-Aug	4	31.7	60.31	172.47	12	0	-	0	-	0	-	7	1.8	0	-	0	-	0	-	0	-
309	3	1-Aug	4	31.8	60.31	172.41	14	0	-	0	-	0	-	1	0.3	0	-	0	-	0	-	0	-
310	3	1-Aug	4	31.1	60.30	172.35	14	3	0.8	0	-	0	-	16	4.0	0	-	0	-	0	-	0	-
			702	38.0 (Avg.)			37 (Avg.)	861	1.2	558	0.8	128	0.2	168	0.2	1,664	2.4	680	1.0	19	0.0	165	0.2

APPENDIX B.
MALE BLUE KING CRAB CATCH, 1995, 1998, 2001, AND 2004 ST. MATTHEW ISLAND SURVEYS

Appendix B1.–Male blue king crab catch and catch per unit effort (CPUE) by station from the 1995, 1998, 2001, and 2004 St. Matthew Island surveys. Data presented is from all stations fished in each survey year.

		Legal Males								Sublegal Males							
		Number				CPUE				Number				CPUE			
Station	Stratum	1995[a]	1998[b]	2001[c]	2004	1995[a]	1998[b]	2001[c]	2004	1995[a]	1998[b]	2001[c]	2004	1995[a]	1998[b]	2001[c]	2004
1	1	10	23	12	2	2.5	5.8	3.0	0.5	11	17	3	1	2.8	4.3	0.8	0.3
2	1	6	4	9	4	1.5	1.0	2.3	1.0	5	28	10	2	1.3	7.0	2.5	0.5
3	1	13	40	29	9	3.3	10.0	7.3	2.3	16	37	45	4	4.0	9.3	11.3	1.0
4	2	21	16	30	12	5.3	4.0	7.5	3.0	43	17	54	9	10.8	4.3	13.5	2.3
5	2	91	40	36	7	22.8	10.0	9.0	1.8	131	25	23	4	32.8	6.3	5.8	1.0
6	1	3	21	11	0	0.8	5.3	2.8	-	1	19	4	0	0.3	4.8	1.0	-
7	1	6	56	17	2	1.5	14.0	4.3	0.5	4	26	7	3	1.0	6.5	1.8	0.8
8	1	15	43	29	7	3.8	10.8	7.3	1.8	33	54	39	5	8.3	13.5	9.8	1.3
9	2	21	20	37	11	5.3	5.0	9.3	2.8	39	87	35	14	9.8	21.8	8.8	3.5
10	2	28	26	44	9	7.0	6.5	11.0	2.3	79	24	31	4	19.8	6.0	7.8	1.0
11[d]	2	154	51	58	8	38.5	12.8	14.5	2.0	143	11	26	3	35.8	2.8	6.5	0.8
12	2	12	nf[e]	29	16	3.0	-	7.3	4.0	23	nf	55	8	5.8	-	13.8	2.0
13	2	25	nf	41	31	6.3	-	10.3	7.8	38	nf	29	17	9.5	-	7.3	4.3
14	2	256	nf	45	17	64.0	-	11.3	4.3	121	nf	9	4	30.3	-	2.3	1.0
15	1	2	63	25	0	0.5	15.8	6.3	-	4	45	7	0	1.0	11.3	1.8	-
16	1	5	38	26	1	1.3	9.5	6.5	0.3	8	27	25	1	2.0	6.8	6.3	0.3
17	1	8	50	20	6	2.0	12.5	5.0	1.5	5	58	28	5	1.3	14.5	7.0	1.3
18	2	16	37	43	10	4.0	9.3	10.8	2.5	34	89	72	23	8.5	22.3	18.0	5.8
19	2	13	18	18	21	3.3	4.5	4.5	5.3	61	51	48	22	15.3	12.8	12.0	5.5
20	2	46	125	109	48	11.5	31.3	27.3	12.0	37	30	57	11	9.3	7.5	14.3	2.8
21	2	115	6	31	9	28.8	1.5	7.8	2.3	48	7	10	13	12.0	1.8	2.5	3.3
22	1	nf	1	9	0	-	0.3	2.3	-	nf	3	13	2	-	0.8	3.3	0.5
23	1	nf	39	7	2	-	9.8	1.8	0.5	nf	69	5	3	-	17.3	1.3	0.8
24	2	9	nf	32	18	2.3	-	8.0	4.5	8	nf	26	8	2.0	-	6.5	2.0
25	2	41	nf	30	57	10.3	-	7.5	14.3	103	nf	50	25	25.8	-	12.5	6.3
26	2	46	nf	20	38	11.5	-	5.0	9.5	28	nf	25	16	7.0	-	6.3	4.0
27	1	nf	40	10	1	-	10.0	2.5	0.3	nf	7	4	0	-	1.8	1.0	-
28	1	17	58	39	5	4.3	14.5	9.8	1.3	20	21	20	2	5.0	5.3	5.0	0.5
29	1	16	48	19	2	4.0	12.0	4.8	0.5	16	51	16	0	4.0	12.8	4.0	-
30	2	3	43	40	7	0.8	10.8	10.0	1.8	6	40	15	9	1.5	10.0	3.8	2.3

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		Legal Males								Sublegal Males							
		Number				CPUE				Number				CPUE			
Station	Stratum	1995[a]	1998[b]	2001[c]	2004	1995[a]	1998[b]	2001[c]	2004	1995[a]	1998[b]	2001[c]	2004	1995[a]	1998[b]	2001[c]	2004
31	2	46	79	35	11	11.5	19.8	8.8	2.8	77	58	49	10	19.3	14.5	12.3	2.5
32	2	17	19	22	9	4.3	4.8	5.5	2.3	18	23	37	16	4.5	5.8	9.3	4.0
33	2	91	14	41	24	22.8	3.5	10.3	6.0	90	17	41	2	22.5	4.3	10.3	0.5
34	2	146	51	60	8	36.5	12.8	15.0	2.0	105	22	15	24	26.3	5.5	3.8	6.0
35	2	142	76	52	2	35.5	19.0	13.0	0.5	155	57	51	5	38.8	14.3	12.8	1.3
36	1	32	16	0	0	8.0	4.0	-	-	57	30	0	0	14.3	7.5	-	-
37	1	3	8	2	0	0.8	2.0	0.5	-	7	8	1	1	1.8	2.0	0.3	0.3
38	2	19	nf	30	17	4.8	-	7.5	4.3	22	nf	34	12	5.5	-	8.5	3.0
39	2	9	nf	58	25	2.3	-	14.5	6.3	16	nf	38	17	4.0	-	9.5	4.3
40	2	17	nf	44	15	4.3	-	11.0	3.8	19	nf	45	22	4.8	-	11.3	5.5
41	2	107	nf	33	11	26.8	-	8.3	2.8	59	nf	22	3	14.8	-	5.5	0.8
42	2	203	nf	29	8	50.8	-	7.3	2.0	161	nf	4	4	40.3	-	1.0	1.0
43	2	33	nf	26	6	8.3	-	6.5	1.5	25	nf	15	9	6.3	-	3.8	2.3
44	1	nf	21	10	0	-	5.3	2.5	-	nf	1	2	0	-	0.3	0.5	-
45	1	18	29	31	1	4.5	7.3	7.8	0.3	8	31	14	0	2.0	7.8	3.5	-
46	1	21	64	38	1	5.3	16.0	9.5	0.3	14	37	28	1	3.5	9.3	7.0	0.3
47	2	15	30	32	4	3.8	7.5	8.0	1.0	18	36	27	5	4.5	9.0	6.8	1.3
48	2	5	67	19	9	1.3	16.8	4.8	2.3	5	36	15	4	1.3	9.0	3.8	1.0
49[f]	2	9	59	28	7	2.3	14.8	7.0	1.8	24	33	14	4	6.0	8.3	3.5	1.0
50	2	35	23	37	5	8.8	5.8	9.3	1.3	41	25	17	5	10.3	6.3	4.3	1.3
51	2	87	41	12	4	21.8	10.3	3.0	1.0	92	20	3	4	23.0	5.0	0.8	1.0
52	2	46	68	29	8	11.5	17.0	7.3	2.0	44	6	7	2	11.0	1.5	1.8	0.5
53	2	12	39	41	5	3.0	9.8	10.3	1.3	25	27	31	1	6.3	6.8	7.8	0.3
54	1	11	1	7	4	2.8	0.3	1.8	1.0	25	7	1	0	6.3	1.8	0.3	-
55	1	3	25	4	2	0.8	6.3	1.0	0.5	20	16	3	1	5.0	4.0	0.8	0.3
56	2	14	nf	13	2	3.5	-	3.3	0.5	13	nf	16	0	3.3	-	4.0	-
57	2	12	nf	19	2	3.0	-	4.8	0.5	10	nf	8	0	2.5	-	2.0	-
58	2	7	nf	22	5	1.8	-	5.5	1.3	11	nf	28	1	2.8	-	7.0	0.3
59	2	41	nf	25	4	10.3	-	6.3	1.0	22	nf	14	3	5.5	-	3.5	0.8
60	2	13	nf	14	4	3.3	-	3.5	1.0	13	nf	3	1	3.3	-	0.8	0.3
61	2	6	nf	28	4	1.5	-	7.0	1.3	3	nf	13	0	0.8	-	3.3	-

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		Legal Males								Sublegal Males							
		Number				CPUE				Number				CPUE			
Station	Stratum	1995[a]	1998[b]	2001[c]	2004	1995[a]	1998[b]	2001[c]	2004	1995[a]	1998[b]	2001[c]	2004	1995[a]	1998[b]	2001[c]	2004
62	1	nf	31	3	2	-	7.8	0.8	0.5	nf	8	3	0	-	2.0	0.8	-
63	1	9	31	11	1	2.3	7.8	2.8	0.3	13	13	2	1	3.3	3.3	0.5	0.3
64	1	71	33	12	3	17.8	8.3	3.0	0.8	43	37	7	1	10.8	9.3	1.8	0.3
65	2	20	49	17	3	5.0	12.3	4.3	0.8	10	43	9	1	2.5	10.8	2.3	0.3
66	2	2	35	15	2	0.5	8.8	3.8	0.5	3	44	13	1	0.8	11.0	3.3	0.3
67	2	12	65	28	4	3.0	16.3	7.0	1.0	12	18	15	3	3.0	4.5	3.8	0.8
68	2	11	31	11	3	2.8	7.8	2.8	0.8	5	10	6	1	1.3	2.5	1.5	0.3
69	2	15	19	9	2	3.8	4.8	2.3	0.5	21	15	10	3	5.3	3.8	2.5	0.8
70	2	18	26	8	2	4.5	6.5	2.0	0.5	24	4	5	0	6.0	1.0	1.3	-
71	2	13	32	12	0	3.3	8.0	3.0	-	18	8	7	0	4.5	2.0	1.8	-
72	1	2	7	0	4	0.5	1.8	-	1.0	11	1	2	1	2.8	0.3	0.5	0.3
73	1	1	11	4	2	0.3	2.8	1.0	0.5	9	5	2	0	2.3	1.3	0.5	-
74	1	9	30	3	1	2.3	7.5	0.8	0.3	17	7	2	0	4.3	1.8	0.5	-
75	1	14	44	4	0	3.5	11.0	1.0	-	8	10	0	1	2.0	2.5	-	0.3
76	1	80	61	29	26	20.0	15.3	7.3	6.5	91	43	52	13	22.8	10.8	13.0	3.3
77	1	75	49	17	7	18.8	12.3	4.3	1.8	43	17	9	0	10.8	4.3	2.3	-
78	1	10	63	16	5	2.5	15.8	4.0	1.3	10	53	12	2	2.5	13.3	3.0	0.5
79	1	11	43	28	16	2.8	10.8	7.0	4.0	8	23	14	3	2.0	5.8	3.5	0.8
80	1	16	30	16	5	4.0	7.5	4.0	1.3	21	11	10	1	5.3	2.8	2.5	0.3
81	1	2	29	18	0	0.5	7.3	4.5	-	5	6	3	0	1.3	1.5	0.8	0.0
82	1	0	12	16	0	-	3.0	4.0	-	1	6	11	0	0.3	1.5	2.8	0.0
83	1	5	7	5	0	1.3	1.8	1.3	-	11	8	1	0	2.8	2.0	0.3	0.0
84	1	5	4	1	0	1.3	1.0	0.3	-	5	5	4	0	1.3	1.3	1.0	0.0
85	1	1	4	1	0	0.3	1.0	0.3	-	6	1	1	0	1.5	0.3	0.3	0.0
86	1	16	39	13	2	4.0	9.8	3.3	0.5	17	13	2	0	4.3	3.3	0.5	0.0
87	1	10	35	13	2	2.5	8.8	3.3	0.5	12	12	3	0	3.0	3.0	0.8	0.0
88	1	25	33	11	0	6.3	8.3	2.8	-	11	8	6	0	2.8	2.0	1.5	0.0
89	1	98	38	24	13	24.5	9.5	6.0	3.3	150	53	44	2	37.5	13.3	11.0	0.5
90	1	25	59	27	3	6.3	14.8	6.8	0.8	13	21	7	2	3.3	5.3	1.8	0.5
91	1	19	42	26	1	4.8	10.5	6.5	0.3	14	20	5	0	3.5	5.0	1.3	0.0
92	1	13	46	25	4	3.3	11.5	6.3	1.0	20	30	24	0	5.0	7.5	6.0	0.0

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		Legal Males								Sublegal Males							
		Number				CPUE				Number				CPUE			
Station	Stratum	1995[a]	1998[b]	2001[c]	2004	1995[a]	1998[b]	2001[c]	2004	1995[a]	1998[b]	2001[c]	2004	1995[a]	1998[b]	2001[c]	2004
93	1	3	17	13	0	0.8	4.3	3.3	-	12	6	12	0	3.0	1.5	3.0	-
94	1	0	6	10	0	-	1.5	2.5	-	2	6	1	0	0.5	1.5	0.3	-
95	1	6	6	0	1	1.5	1.5	0.0	0.3	13	6	0	0	3.3	1.5	-	0.0
96	1	2	nf	1	0	0.5	-	0.3	-	1	nf	0	1	0.3	-	-	0.3
97	1	0	nf	1	0	0.0	-	0.3	-	5	nf	2	0	1.3	-	0.5	-
98	1	7	27	13	2	1.8	6.8	3.3	0.5	6	14	2	0	1.5	3.5	0.5	-
99	1	11	33	9	3	2.8	8.3	2.3	0.8	4	13	2	0	1.0	3.3	0.5	-
100	1	42	31	6	0	10.5	7.8	1.5	-	15	10	0	0	3.8	2.5	0.0	-
101	1	56	41	19	0	14.0	10.3	4.8	-	21	20	10	0	5.3	5.0	2.5	-
102	1	103	40	36	3	25.8	10.0	9.0	0.8	48	23	20	0	12.0	5.8	5.0	-
103	1	6	32	26	0	1.5	8.0	6.5	-	15	19	13	0	3.8	4.8	3.3	-
104	1	16	17	34	1	4.0	4.3	8.5	0.3	7	7	13	0	1.8	1.8	3.3	-
105	1	9	29	22	3	2.3	7.3	5.5	0.8	14	17	7	0	3.5	4.3	1.8	-
106	1	2	nf	6	0	0.5	-	1.5	-	0	nf	7	0	-	-	1.8	-
107	1	2	nf	5	0	0.5	-	1.3	-	2	nf	0	0	0.5	-	-	-
108	1	0	nf	2	0	0.0	-	0.5	-	2	nf	0	0	0.5	-	-	-
109	1	1	nf	18	0	0.3	-	4.5	-	1	nf	14	0	0.3	-	3.5	-
110	1	3	25	11	0	0.8	6.3	2.8	-	1	7	2	0	0.3	1.8	0.5	-
111	1	9	14	8	7	2.3	3.5	2.0	1.8	12	11	0	0	3.0	2.8	-	-
112	1	36	28	14	0	9.0	7.0	3.5	-	8	7	11	0	2.0	1.8	2.8	-
113	1	25	23	12	1	6.3	5.8	3.0	0.3	11	9	1	0	2.8	2.3	0.3	-
114	1	13	51	49	1	3.3	12.8	12.3	0.3	6	17	12	0	1.5	4.3	3.0	-
115	1	17	29	54	1	4.3	7.3	13.5	0.3	11	10	16	0	2.8	2.5	4.0	-
116	1	8	21	26	1	2.0	5.3	6.5	0.3	3	8	9	1	0.8	2.0	2.3	0.3
117	1	1	nf	15	0	0.3	-	3.8	-	2	nf	3	0	0.5	-	0.8	-
118	1	4	nf	8	0	1.0	-	2.0	-	2	nf	3	0	0.5	-	0.8	-
119	1	nf	nf	7	1	-	-	1.8	0.3	nf	nf	2	0	-	-	0.5	-
120	1	nf	nf	2	0	-	-	0.5	-	nf	nf	0	0	-	-	-	-
121	1	nf	nf	0	0	-	-	0.0	-	nf	nf	0	0	-	-	-	-
122	1	11	37	18	1	2.8	9.3	4.5	0.3	8	12	0	0	2.0	3.0	-	-
123	1	9	19	14	3	2.3	4.8	3.5	0.8	5	9	2	0	1.3	2.3	0.5	-

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		Legal Males								Sublegal Males							
		Number				CPUE				Number				CPUE			
Station	Stratum	1995[a]	1998[b]	2001[c]	2004	1995[a]	1998[b]	2001[c]	2004	1995[a]	1998[b]	2001[c]	2004	1995[a]	1998[b]	2001[c]	2004
124	1	7	24	8	3	1.8	6.0	2.0	0.8	4	7	2	0	1.0	1.8	0.5	-
125	1	5	34	10	0	1.3	8.5	2.5	-	5	7	1	1	1.3	1.8	0.3	0.3
126	1	6	23	22	1	1.5	5.8	5.5	0.3	2	6	4	0	0.5	1.5	1.0	-
127	1	7	24	17	2	1.8	6.0	4.3	0.5	4	4	2	0	1.0	1.0	0.5	-
128	1	3	20	8	1	0.8	5.0	2.0	0.3	4	9	1	0	1.0	2.3	0.3	-
129	1	1	nf	5	0	0.3	-	1.3	-	6	nf	0	1	1.5	-	-	0.3
130	1	1	nf	4	0	0.3	-	1.0	-	1	nf	2	0	0.3	-	0.5	-
131	1	nf	nf	2	0	-	-	0.5	-	nf	nf	1	0	-	-	0.3	-
132	1	nf	nf	0	0	-	-	-	-	nf	nf	0	0	-	-	-	-
133	1	nf	nf	0	0	-	-	-	-	nf	nf	0	0	-	-	-	-
134	1	16	nf	nf	0	4.0	-	-	-	5	nf	nf	0	1.3	-	-	-
135	1	4	nf	22	0	1.0	-	5.5	-	5	nf	1	0	1.3	-	0.3	-
136	1	2	nf	15	3	0.5	-	3.8	0.8	1	nf	6	0	0.3	-	1.5	-
137	1	3	nf	12	0	0.8	-	3.0	-	4	nf	7	0	1.0	-	1.8	-
138	1	5	nf	8	1	1.3	-	2.0	0.3	4	nf	2	0	1.0	-	0.5	-
139	1	3	nf	7	nf	0.8	-	1.8	-	1	nf	0	nf	0.3	-	-	-
140	1	1	nf	12	nf	0.3	-	3.0	-	2	nf	2	nf	0.5	-	0.5	-
141	1	1	nf	8	nf	0.3	-	2.0	-	0	nf	0	nf	-	-	-	-
142	1	0	nf	4	nf	-	-	1.0	-	0	nf	1	nf	-	-	0.3	-
143	1	nf	nf	0	nf	-	-	-	-	nf	nf	0	nf	-	-	-	-
144	1	nf	nf	0	nf	-	-	-	-	nf	nf	0	nf	-	-	-	-
145	1	nf	nf	0	nf	-	-	-	-	nf	nf	0	nf	-	-	-	-
146	2	114	nf	15	2	28.5	-	3.8	0.5	75	nf	2	1	18.8	-	0.5	0.3
147	2	31	0	1	0	7.8	-	0.3	-	44	1	0	1	11.0	0.3	-	0.3
148	2	132	nf	42	0	33.0	-	10.5	-	95	nf	10	6	23.8	-	2.5	1.5
149	2	83	0	4	0	20.8	-	1.0	-	92	1	1	0	23.0	0.3	0.3	-
150	2	114	nf	5	4	28.5	-	1.3	1.0	167	nf	50	11	41.8	-	12.5	2.8
151	2	59	nf	23	12	14.8	-	5.8	3.0	87	nf	36	11	21.8	-	9.0	2.8
152	2	25	nf	17	2	6.3	-	4.3	0.5	66	nf	13	1	16.5	-	3.3	0.3
156	1	nf	10	nf	nf	-	2.5	-	-	nf	2	nf	nf	-	0.5	-	-
157	1	nf	13	nf	2	-	3.3	-	0.5	nf	5	nf	1	-	1.3	-	0.3

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		Legal Males								Sublegal Males							
		Number				CPUE				Number				CPUE			
Station	Stratum	1995[a]	1998[b]	2001[c]	2004	1995[a]	1998[b]	2001[c]	2004	1995[a]	1998[b]	2001[c]	2004	1995[a]	1998[b]	2001[c]	2004
158	1	nf	16	nf	10	-	4.0	-	2.5	nf	11	nf	2	-	2.8	-	0.5
159	1	nf	3	nf	1	-	0.8	-	0.3	nf	4	nf	0	-	1.0	-	-
160	1	nf	0	nf	0	-	-	-	-	nf	0	nf	0	-	-	-	-
167	1	nf	18	nf	4	-	4.5	-	1.0	nf	8	nf	4	-	2.0	-	1.0
168	1	nf	16	1	2	-	4.0	0.3	0.5	nf	6	2	2	-	1.5	0.5	0.5
169	1	nf	21	13	21	-	5.3	3.3	5.3	nf	9	4	8	-	2.3	1.0	2.0
170	1	nf	30	nf	9	-	7.5	-	2.3	nf	15	nf	3	-	3.8	-	0.8
171	1	nf	1	nf	1	-	0.3	-	0.3	nf	1	nf	0	-	0.3	-	-
172	1	nf	0	nf	0	-	-	-	-	nf	1	nf	0	-	0.3	-	-
173	1	nf	1	nf	nf	-	0.3	-	-	nf	0	nf	nf	-	-	-	-
177	1	nf	16	nf	nf	-	4.0	-	-	nf	14	nf	nf	-	3.5	-	-
178	1	nf	26	nf	5	-	6.5	-	1.3	nf	57	nf	8	-	14.3	-	2.0
179	1	nf	13	5	6	-	3.3	1.3	1.5	nf	15	5	8	-	3.8	1.3	2.0
180	1	nf	45	5	23	-	11.3	1.3	5.8	nf	54	4	37	-	13.5	1.0	9.3
181	1	nf	0	nf	3	-	-	-	0.8	nf	2	nf	0	-	0.5	-	-
182	1	nf	1	nf	0	-	0.3	-	-	nf	4	nf	1	-	1.0	-	0.3
183	1	nf	0	nf	nf	-	-	-	-	nf	1	nf	nf	-	0.3	-	-
184	1	nf	0	nf	nf	-	-	-	-	nf	0	nf	nf	-	-	-	-
186	1	nf	29	nf	nf	-	7.3	-	-	nf	9	nf	nf	-	2.3	-	-
187	1	nf	34	nf	nf	-	8.5	-	-	nf	25	nf	nf	-	6.3	-	-
188	1	nf	45	nf	12	-	11.3	-	3.0	nf	38	nf	5	-	9.5	-	1.3
189	1	nf	12	2	6	-	3.0	0.5	1.5	nf	15	33	12	-	3.8	8.3	3.0
190	1	nf	18	26	1	-	4.5	6.5	0.3	nf	10	20	9	-	2.5	5.0	2.3
191	1	nf	2	nf	nf	-	0.5	-	-	nf	2	nf	nf	-	0.5	-	-
192	1	nf	1	nf	nf	-	0.3	-	-	nf	3	nf	nf	-	0.8	-	-
193	1	nf	0	nf	nf	-	-	-	-	nf	2	nf	nf	-	0.5	-	-
194	1	nf	0	nf	nf	-	-	-	-	nf	0	nf	nf	-	-	-	-
195	1	nf	0	nf	nf	-	-	-	-	nf	0	nf	nf	-	-	-	-
196	1	nf	26	nf	nf	-	6.5	-	-	nf	47	nf	nf	-	11.8	-	-
197	1	nf	0	nf	nf	-	-	-	-	nf	2	nf	nf	-	0.5	-	-
198	1	nf	2	nf	nf	-	0.5	-	-	nf	0	nf	nf	-	-	-	-

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		Legal Males								Sublegal Males							
		Number				CPUE				Number				CPUE			
Station	Stratum	1995[a]	1998[b]	2001[c]	2004	1995[a]	1998[b]	2001[c]	2004	1995[a]	1998[b]	2001[c]	2004	1995[a]	1998[b]	2001[c]	2004
199	1	nf	36	nf	nf	-	9.0	-	-	nf	65	nf	nf	-	16.3	-	-
200	1	nf	9	nf	nf	-	2.3	-	-	nf	8	nf	nf	-	2.0	-	-
201	1	nf	0	1	0	-	-	0.3	-	nf	2	2	1	-	0.5	0.5	0.3
202	1	nf	nf	nf	2	-	-	-	0.5	nf	nf	nf	6	-	-	-	1.5
203	1	nf	nf	nf	0	-	-	-	-	nf	nf	nf	0	-	-	-	-
301	3	nf	nf	nf	0	-	-	-	-	nf	nf	nf	0	-	-	-	-
302	3	nf	nf	nf	0	-	-	-	-	nf	nf	nf	2	-	-	-	0.5
303	3	nf	nf	nf	0	-	-	-	-	nf	nf	nf	0	-	-	-	-
304	3	nf	nf	nf	0	-	-	-	-	nf	nf	nf	0	-	-	-	-
305	3	nf	nf	nf	0	-	-	-	-	nf	nf	nf	2	-	-	-	0.5
306	3	nf	nf	nf	0	-	-	-	-	nf	nf	nf	1	-	-	-	0.3
307	3	nf	nf	nf	0	-	-	-	-	nf	nf	nf	0	-	-	-	-
308	3	nf	nf	nf	0	-	-	-	-	nf	nf	nf	0	-	-	-	-
309	3	nf	nf	nf	0	-	-	-	-	nf	nf	nf	0	-	-	-	-
310	3	nf	nf	nf	3	-	-	-	0.8	nf	nf	nf	0	-	-	-	-
Total		3,851	3,769	2,952	861	7.0	6.9	4.7	1.2	3,807	2,589	2,056	558	6.9	4.7	3.3	0.8

[a] 1995 survey data from Blau (1996) and the 'StMatt95' database as of October 31, 2004.

[b] 1998 survey data from Blau and Watson (1999a) and the 'StMatt98' database as of October 31, 2004.

[c] 2001 survey data from Watson and Burt (2002) and the 'StMatt01' database as of October 31, 2004.

[d] One male blue king crab captured during the 2001 survey at Station 11 was not assessed as either legal or sublegal and is not included in this table.

[e] nf – station not fished.

[f] One male blue king crab captured during the 2001 survey at Station 49 was not assessed as either legal or sublegal and is not included in this table.

APPENDIX C.
FEMALE BLUE KING CRAB CATCH, 1995, 1998, 2001, AND 2004 ST. MATTHEW ISLAND SURVEYS

Appendix C1.–Female blue king crab catch and catch per unit effort (CPUE) by station from the 1995, 1998, 2001, and 2004 St. Matthew Island surveys. Data presented is from all stations fished in each survey year.

		Number				CPUE			
Station	Stratum	1995[a]	1998[b]	2001[c]	2004	1995[a]	1998[b]	2001[c]	2004
1	1	0	0	0	0	-	-	-	-
2	1	0	1	0	0	-	0.3	-	-
3	1	0	4	1	0	-	1.0	0.3	-
4	2	1	14	1	0	0.3	3.5	0.3	-
5	2	17	33	5	9	4.3	8.3	1.3	2.3
6	1	0	0	0	0	-	-	-	-
7	1	0	2	0	0	-	0.5	-	-
8	1	0	20	3	0	-	5.0	0.8	-
9	2	4	52	3	0	1.0	13.0	0.8	-
10	2	8	58	4	1	2.0	14.5	1.0	0.3
11	2	108	107	40	9	27.0	26.8	10.0	2.3
12	2	2	nf[d]	11	1	0.5	-	2.8	0.3
13	2	3	nf	3	5	0.8	-	0.8	1.3
14	2	154	nf	44	3	38.5	-	11.0	0.8
15	1	0	4	0	0	-	1.0	-	-
16	1	0	0	1	0	-	-	0.3	-
17	1	0	20	2	0	-	5.0	0.5	-
18	2	0	105	3	0	-	26.3	0.8	-
19	2	5	105	14	4	1.3	26.3	3.5	1.0
20	2	4	150	17	3	1.0	37.5	4.3	0.8
21	2	419	72	30	20	104.8	18.0	7.5	5.0
22	1	nf	53	3	4	-	13.3	0.8	1.0
23	1	nf	41	2	0	-	10.3	0.5	-
24	2	4	nf	3	3	1.0	-	0.8	0.8
25	2	11	nf	27	2	2.8	-	6.8	0.5
26	2	14	nf	29	8	3.5	-	7.3	2.0
27	1	nf	0	0	0	-	-	-	-
28	1	0	0	0	0	-	-	-	-
29	1	0	0	2	0	-	-	0.5	-
30	2	0	45	7	0	-	11.3	1.8	-
31	2	8	157	12	1	2.0	39.3	3.0	0.3
32	2	7	91	3	1	1.8	22.8	0.8	0.3
33	2	104	106	82	0	26.0	26.5	20.5	-
34	2	590	245	27	50	147.5	61.3	6.8	12.5
35	2	26	45	4	0	6.5	11.3	1.0	-
36	1	13	5	0	0	3.3	1.3	-	-
37	1	0	2	0	0	-	0.5	-	-
38	2	1	nf	13	1	0.3	-	3.3	0.3
39	2	2	nf	10	2	0.5	-	2.5	0.5
40	2	6	nf	14	2	1.5	-	3.5	0.5
41	2	224	nf	78	13	56.0	-	19.5	3.3
42	2	267	nf	13	10	66.8	-	3.3	2.5
43	2	11	nf	1	2	2.8	-	0.3	0.5
44	1	nf	0	0	0	-	-	-	-

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Station	Stratum	Number				CPUE			
		1995[a]	1998[b]	2001[c]	2004	1995[a]	1998[b]	2001[c]	2004
45	1	0	0	0	0	-	-	-	-
46	1	0	0	3	0	-	-	0.8	-
47	2	1	38	11	0	0.3	9.5	2.8	-
48	2	1	70	2	0	0.3	17.5	0.5	-
49	2	9	54	5	1	2.3	13.5	1.3	0.3
50	2	36	65	17	0	9.0	16.3	4.3	-
51	2	55	101	11	2	13.8	25.3	2.8	0.5
52	2	7	36	12	4	1.8	9.0	3.0	1.0
53	2	7	8	2	0	1.8	2.0	0.5	-
54	1	2	1	1	1	0.5	0.3	0.3	0.3
55	1	5	0	0	1	1.3	-	-	0.3
56	2	1	nf	2	1	0.3	-	0.5	0.3
57	2	2	nf	7	1	0.5	-	1.8	0.3
58	2	7	nf	11	0	1.8	-	2.8	-
59	2	6	nf	9	1	1.5	-	2.3	0.3
60	2	2	nf	3	1	0.5	-	0.8	0.3
61	2	1	nf	5	0	0.3	-	1.3	-
62	1	nf	0	0	0	-	-	-	-
63	1	0	0	0	0	-	-	-	-
64	1	0	0	0	0	-	-	-	-
65	2	0	8	1	0	-	2.0	0.3	-
66	2	1	17	5	0	0.3	4.3	1.3	-
67	2	2	41	15	1	0.5	10.3	3.8	0.3
68	2	5	33	3	1	1.3	8.3	0.8	0.3
69	2	4	24	2	0	1.0	6.0	0.5	-
70	2	3	11	4	0	0.8	2.8	1.0	-
71	2	3	3	0	0	0.8	0.8	-	-
72	1	1	0	0	0	0.3	-	-	-
73	1	0	0	1	0	-	-	0.3	-
74	1	0	0	0	0	-	-	-	-
75	1	0	0	0	0	-	-	-	-
76	1	0	0	0	0	-	-	-	-
77	1	0	0	0	0	-	-	-	-
78	1	0	8	3	0	-	2.0	0.8	-
79	1	0	7	5	1	-	1.8	1.3	0.3
80	1	1	14	3	0	0.3	3.5	0.8	-
81	1	0	20	4	0	-	5.0	1.0	-
82	1	0	1	1	0	-	0.3	0.3	-
83	1	0	2	0	0	-	0.5	-	-
84	1	0	2	0	0	-	0.5	-	-
85	1	1	0	1	0	0.3	-	0.3	-
86	1	0	0	0	0	-	-	-	-
87	1	0	0	0	0	-	-	-	-
88	1	0	0	0	0	-	-	-	-
89	1	1	0	1	0	0.3	-	0.3	-
90	1	0	1	0	0	-	0.3	-	-

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Station	Stratum	Number				CPUE			
		1995[a]	1998[b]	2001[c]	2004	1995[a]	1998[b]	2001[c]	2004
91	1	0	2	1	0	-	0.5	0.3	-
92	1	1	1	0	0	0.3	0.3	-	-
93	1	0	4	1	0	-	1.0	0.3	-
94	1	0	2	0	0	-	0.5	-	-
95	1	1	0	0	0	0.3	-	-	-
96	1	0	nf	0	0	-	-	-	-
97	1	1	nf	1	0	0.3	-	0.3	-
98	1	0	0	0	0	-	-	-	-
99	1	0	0	0	0	-	-	-	-
100	1	0	0	0	0	-	-	-	-
101	1	0	0	0	0	-	-	-	-
102	1	0	0	0	0	-	-	-	-
103	1	0	1	0	0	-	0.3	-	-
104	1	0	1	0	0	-	0.3	-	-
105	1	0	2	0	0	-	0.5	-	-
106	1	0	nf	0	0	-	-	-	-
107	1	0	nf	0	0	-	-	-	-
108	1	0	nf	0	0	-	-	-	-
109	1	0	nf	0	0	-	-	-	-
110	1	0	0	0	0	-	-	-	-
111	1	0	0	0	0	-	-	-	-
112	1	0	0	0	0	-	-	-	-
113	1	0	0	0	0	-	-	-	-
114	1	0	0	0	0	-	-	-	-
115	1	0	0	0	0	-	-	-	-
116	1	0	0	0	0	-	-	-	-
117	1	0	nf	0	0	-	-	-	-
118	1	0	nf	0	0	-	-	-	-
119	1	nf	nf	0	0	-	-	-	-
120	1	nf	nf	0	0	-	-	-	-
121	1	nf	nf	0	0	-	-	-	-
122	1	0	0	0	0	-	-	-	-
123	1	0	0	0	0	-	-	-	-
124	1	0	0	0	0	-	-	-	-
125	1	0	0	0	0	-	-	-	-
126	1	0	0	0	0	-	-	-	-
127	1	0	0	0	0	-	-	-	-
128	1	0	1	0	0	-	0.3	-	-
129	1	0	nf	0	0	-	-	-	-
130	1	0	nf	0	0	-	-	-	-
131	1	nf	nf	0	0	-	-	-	-
132	1	nf	nf	0	0	-	-	-	-
133	1	nf	nf	0	0	-	-	-	-
134	1	0	nf	nf	0	-	-	-	-
135	1	0	nf	0	0	-	-	-	-
136	1	0	nf	0	0	-	-	-	-

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Station	Stratum	Number				CPUE			
		1995[a]	1998[b]	2001[c]	2004	1995[a]	1998[b]	2001[c]	2004
137	1	0	nf	0	0	-	-	-	-
138	1	0	nf	0	0	-	-	-	-
139	1	0	nf	0	nf	-	-	-	-
140	1	0	nf	0	nf	-	-	-	-
141	1	0	nf	0	nf	-	-	-	-
142	1	0	nf	0	nf	-	-	-	-
143	1	nf	nf	0	nf	-	-	-	-
144	1	nf	nf	0	nf	-	-	-	-
145	1	nf	nf	0	nf	-	-	-	-
146	2	366	nf	13	0	91.5	-	3.3	-
147	2	68	2	1	0	17.0	0.5	0.3	-
148	2	332	nf	24	15	83.0	-	6.0	3.8
149	2	14	6	0	7	3.5	1.5	-	1.8
150	2	56	nf	12	5	14.0	-	3.0	1.3
151	2	3	nf	4	2	0.8	-	1.0	0.5
152	2	6	nf	0	0	1.5	-	-	-
156	1	nf	1	nf	nf	-	0.3	-	-
157	1	nf	1	nf	0	-	0.3	-	-
158	1	nf	0	nf	0	-	-	-	-
159	1	nf	0	nf	0	-	-	-	-
160	1	nf	0	nf	0	-	-	-	-
167	1	nf	1	nf	0	-	0.3	-	-
168	1	nf	1	0	0	-	0.3	-	-
169	1	nf	1	0	0	-	0.3	-	-
170	1	nf	1	nf	2	-	0.3	-	0.5
171	1	nf	0	nf	0	-	-	-	-
172	1	nf	0	nf	0	-	-	-	-
173	1	nf	0	nf	nf	-	-	-	-
177	1	nf	1	nf	nf	-	0.3	-	-
178	1	nf	7	nf	0	-	1.8	-	-
179	1	nf	6	0	1	-	1.5	-	0.3
180	1	nf	6	0	31	-	1.5	-	7.8
181	1	nf	0	nf	0	-	-	-	-
182	1	nf	0	nf	0	-	-	-	-
183	1	nf	0	nf	nf	-	-	-	-
184	1	nf	0	nf	nf	-	-	-	-
186	1	nf	0	nf	nf	-	-	-	-
187	1	nf	1	nf	nf	-	0.3	-	-
188	1	nf	9	nf	2	-	2.3	-	0.5
189	1	nf	8	1	0	-	2.0	0.3	-
190	1	nf	9	1	6	-	2.3	0.3	1.5
191	1	nf	0	nf	nf	-	-	-	-
192	1	nf	0	nf	nf	-	-	-	-
193	1	nf	0	nf	nf	-	-	-	-
194	1	nf	0	nf	nf	-	-	-	-
195	1	nf	0	nf	nf	-	-	-	-

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Station	Stratum	Number				CPUE			
		1995[a]	1998[b]	2001[c]	2004	1995[a]	1998[b]	2001[c]	2004
196	1	nf	13	nf	nf	-	3.3	-	-
197	1	nf	1	nf	nf	-	0.3	-	-
198	1	nf	0	nf	nf	-	-	-	-
199	1	nf	53	nf	nf	-	13.3	-	-
200	1	nf	1	nf	nf	-	0.3	-	-
201	1	nf	10	16	11	-	2.5	4.0	2.8
202	1	nf	nf	nf	9	-	-	-	2.3
203	1	nf	nf	nf	2	-	-	-	0.5
301	3	nf	nf	nf	2	-	-	-	0.5
302	3	nf	nf	nf	0	-	-	-	-
303	3	nf	nf	nf	0	-	-	-	-
304	3	nf	nf	nf	0	-	-	-	-
305	3	nf	nf	nf	0	-	-	-	-
306	3	nf	nf	nf	4	-	-	-	1.0
307	3	nf	nf	nf	1	-	-	-	0.3
308	3	nf	nf	nf	7	-	-	-	1.8
309	3	nf	nf	nf	1	-	-	-	0.3
310	3	nf	nf	nf	16	-	-	-	4.0
Total		3,025	2,255	737	296	5.4	4.1	1.2	0.4

[a] 1995 survey data from Blau (1996) and the 'StMatt95' database as of October 31, 2004.

[b] 1998 survey data from Blau and Watson (1999a) and the 'StMatt98' database as of October 31, 2004.

[c] 2001 survey data from Watson and Burt (2002) and the 'StMatt01' database as of October 31, 2004.

[d] nf – station not fished.

APPENDIX D.
MALE SNOW CRAB CATCH, 1995, 1998, 2001, AND 2004 ST. MATTHEW ISLAND SURVEYS

Appendix D1.–Male snow crab catch and catch per unit effort (CPUE) by station from the 1995, 1998, 2001, and 2004 St. Matthew Island blue king crab surveys. Data presented is from all stations fished in each survey year.

		Legal Males								Sublegal Males							
		Number				CPUE				Number				CPUE			
Station	Stratum	1995[a]	1998[b]	2001[c]	2004	1995[a]	1998[b]	2001[c]	2004	1995[a]	1998[b]	2001[c]	2004	1995[a]	1998[b]	2001[c]	2004
1	1	55	0	53	22	13.8	0.0	13.3	5.5	84	0	180	0	21.0	0.0	45.0	0.0
2	1	5	15	20	3	1.3	3.8	5.0	0.8	14	18	31	0	3.5	4.5	7.8	0.0
3	1	0	0	0	0	0.0	0.0	0.0	0.0	1	1	0	0	0.3	0.3	0.0	0.0
4	2	0	0	0	0	0.0	0.0	0.0	0.0	0	0	0	0	0.0	0.0	0.0	0.0
5	2	0	0	0	0	0.0	0.0	0.0	0.0	0	0	0	0	0.0	0.0	0.0	0.0
6	1	29	28	149	2	7.3	7.0	37.4	0.5	20	4	496	0	5.0	1.0	123.9	0.0
7	1	16	1	34	0	4.0	0.3	8.5	0.0	33	1	113	0	8.3	0.3	28.3	0.0
8	1	6	3	0	2	1.5	0.8	0.0	0.5	3	14	0	0	0.8	3.5	0.0	0.0
9	2	0	0	0	0	0.0	0.0	0.0	0.0	0	0	0	0	0.0	0.0	0.0	0.0
10	2	0	0	0	0	0.0	0.0	0.0	0.0	0	0	0	0	0.0	0.0	0.0	0.0
11	2	0	0	0	0	0.0	0.0	0.0	0.0	0	0	0	0	0.0	0.0	0.0	0.0
12	2	0	nf[d]	0	0	0.0	-	0.0	0.0	0	nf	0	0	0.0	-	0.0	0.0
13	2	0	nf	0	0	0.0	-	0.0	0.0	0	nf	0	0	0.0	-	0.0	0.0
14	2	0	nf	0	0	0.0	-	0.0	0.0	0	nf	0	0	0.0	-	0.0	0.0
15	1	28	492	139	9	7.0	123.0	34.8	2.3	24	133	462	0	6.0	33.3	115.5	0.0
16	1	3	0	45	5	0.8	0.0	11.3	1.3	3	0	185	0	0.8	0.0	46.3	0.0
17	1	0	3	88	4	0.0	0.8	22.0	1.0	1	4	240	0	0.3	1.0	60.0	0.0
18	2	0	2	12	0	0.0	0.5	3.0	0.0	0	1	20	0	0.0	0.3	5.0	0.0
19	2	0	0	0	0	0.0	0.0	0.0	0.0	0	0	0	0	0.0	0.0	0.0	0.0
20	2	0	1	0	0	0.0	0.3	0.0	0.0	0	0	0	0	0.0	0.0	0.0	0.0
21	2	0	0	0	0	0.0	0.0	0.0	0.0	0	0	0	0	0.0	0.0	0.0	0.0
22	1	nf	0	0	0	-	0.0	0.0	0.0	nf	0	0	0	-	0.0	0.0	0.0
23	1	nf	1	22	0	-	0.3	5.5	0.0	nf	0	63	0	-	0.0	15.8	0.0
24	2	0	nf	0	0	0.0	-	0.0	0.0	0	nf	0	0	0.0	-	0.0	0.0
25	2	0	nf	0	0	0.0	-	0.0	0.0	0	nf	0	0	0.0	-	0.0	0.0
26	2	0	nf	0	0	0.0	-	0.0	0.0	0	nf	0	0	0.0	-	0.0	0.0
27	1	nf	564	430	19	-	141.0	107.5	4.8	nf	77	740	3	-	19.3	185.0	0.8
28	1	41	3	266	0	10.3	0.8	66.5	0.0	43	2	653	0	10.8	0.5	163.3	0.0
29	1	3	2	37	5	0.8	0.5	9.3	1.3	31	1	147	0	7.8	0.3	36.8	0.0
30	2	0	4	33	0	0.0	1.0	8.3	0.0	0	13	88	0	0.0	3.3	21.9	0.0

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Appendix D1.–(page 2 of 7)

		Legal Males								Sublegal Males							
		Number				CPUE				Number				CPUE			
Station	Stratum	1995[a]	1998[b]	2001[c]	2004	1995[a]	1998[b]	2001[c]	2004	1995[a]	1998[b]	2001[c]	2004	1995[a]	1998[b]	2001[c]	2004
31	2	0	0	0	0	0.0	0.0	0.0	0.0	0	0	0	0	0.0	0.0	0.0	0.0
32	2	0	7	0	0	0.0	1.8	0.0	0.0	0	2	0	0	0.0	0.5	0.0	0.0
33	2	0	0	0	0	0.0	0.0	0.0	0.0	0	0	0	0	0.0	0.0	0.0	0.0
34	2	0	1	0	0	0.0	0.3	0.0	0.0	0	0	0	0	0.0	0.0	0.0	0.0
35	2	0	0	0	0	0.0	0.0	0.0	0.0	0	0	0	0	0.0	0.0	0.0	0.0
36	1	0	0	0	0	0.0	0.0	0.0	0.0	0	0	0	0	0.0	0.0	0.0	0.0
37	1	0	53	0	0	0.0	13.3	0.0	0.0	0	19	0	0	0.0	4.8	0.0	0.0
38	2	0	nf	8	0	0.0	-	2.0	0.0	0	nf	18	0	0.0	-	4.5	0.0
39	2	0	nf	0	0	0.0	-	0.0	0.0	0	nf	0	0	0.0	-	0.0	0.0
40	2	0	nf	0	0	0.0	-	0.0	0.0	0	nf	0	0	0.0	-	0.0	0.0
41	2	0	nf	0	0	0.0	-	0.0	0.0	0	nf	0	0	0.0	-	0.0	0.0
42	2	0	nf	0	0	0.0	-	0.0	0.0	0	nf	0	0	0.0	-	0.0	0.0
43	2	0	nf	0	0	0.0	-	0.0	0.0	0	nf	0	0	0.0	-	0.0	0.0
44	1	nf	860	373	12	-	215.0	93.2	3.0	nf	145	205	1	-	36.3	51.4	0.3
45	1	93	540	380	7	23.2	135.0	95.0	1.8	45	72	864	1	11.3	18.0	216.0	0.3
46	1	2	0	107	13	0.5	0.0	26.8	3.3	1	0	105	0	0.3	0.0	26.3	0.0
47	2	0	27	26	0	0.0	6.8	6.5	0.0	0	10	35	0	0.0	2.5	8.8	0.0
48	2	0	22	8	0	0.0	5.5	2.0	0.0	0	13	4	0	0.0	3.3	1.0	0.0
49	2	0	13	1	0	0.0	3.3	0.3	0.0	0	7	0	0	0.0	1.8	0.0	0.0
50	2	0	23	0	0	0.0	5.8	0.0	0.0	0	7	0	0	0.0	1.8	0.0	0.0
51	2	0	67	0	0	0.0	16.8	0.0	0.0	0	15	0	0	0.0	3.8	0.0	0.0
52	2	0	36	0	0	0.0	9.0	0.0	0.0	0	11	0	0	0.0	2.8	0.0	0.0
53	2	0	28	0	0	0.0	7.0	0.0	0.0	0	7	0	0	0.0	1.8	0.0	0.0
54	1	0	81	0	0	0.0	20.3	0.0	0.0	0	20	0	0	0.0	5.0	0.0	0.0
55	1	0	143	0	0	0.0	35.8	0.0	0.0	0	68	0	0	0.0	17.0	0.0	0.0
56	2	0	nf	47	0	0.0	-	11.8	0.0	0	nf	85	0	0.0	-	21.3	0.0
57	2	0	nf	18	0	0.0	-	4.5	0.0	0	nf	45	1	0.0	-	11.3	0.3
58	2	0	nf	0	0	0.0	-	0.0	0.0	0	nf	0	0	0.0	-	0.0	0.0
59	2	0	nf	0	0	0.0	-	0.0	0.0	0	nf	1	0	0.0	-	0.3	0.0
60	2	0	nf	0	0	0.0	-	0.0	0.0	0	nf	1	0	0.0	-	0.3	0.0
61	2	0	nf	0	0	0.0	-	0.0	0.0	0	nf	1	0	0.0	-	0.3	0.0

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Appendix D1.–(page 3 of 7)

		Legal Males								Sublegal Males							
		Number				CPUE				Number				CPUE			
Station	Stratum	1995[a]	1998[b]	2001[c]	2004	1995[a]	1998[b]	2001[c]	2004	1995[a]	1998[b]	2001[c]	2004	1995[a]	1998[b]	2001[c]	2004
62	1	nf	847	468	17	-	211.8	116.9	4.3	nf	82	184	0	-	20.5	46.1	0.0
63	1	124	618	514	13	31.0	154.5	128.5	3.3	168	105	420	3	42.0	26.3	105.0	0.8
64	1	1	92	103	0	0.3	23.0	25.8	0.0	1	13	154	0	0.3	3.3	38.5	0.0
65	2	0	90	80	12	0.0	22.5	20.0	3.0	0	18	131	2	0.0	4.5	32.8	0.5
66	2	0	105	99	0	0.0	26.3	24.8	0.0	0	32	212	0	0.0	8.0	53.0	0.0
67	2	0	51	5	0	0.0	12.8	1.3	0.0	0	11	0	0	0.0	2.8	0.0	0.0
68	2	0	37	0	0	0.0	9.3	0.0	0.0	0	27	1	0	0.0	6.8	0.3	0.0
69	2	0	256	0	0	0.0	64.0	0.0	0.0	0	73	0	0	0.0	18.3	0.0	0.0
70	2	0	105	2	0	0.0	26.3	0.5	0.0	0	22	1	0	0.0	5.5	0.3	0.0
71	2	1	185	4	1	0.3	46.3	1.0	0.3	0	7	3	2	0.0	1.8	0.8	0.5
72	1	0	198	7	0	0.0	49.5	1.8	0.0	0	31	3	0	0.0	7.8	0.8	0.0
73	1	0	253	23	37	0.0	63.3	5.8	9.3	1	62	28	42	0.3	15.5	7.0	10.5
74	1	262	699	361	4	65.5	174.8	90.2	1.0	84	75	338	0	21.0	18.8	84.5	0.0
75	1	286	590	618	6	71.5	147.5	154.6	1.5	192	82	142	0	48.0	20.5	35.4	0.0
76	1	0	4	170	1	0.0	1.0	42.5	0.3	0	1	82	0	0.0	0.3	20.5	0.0
77	1	0	5	267	0	0.0	1.3	66.8	0.0	0	0	231	0	0.0	0.0	57.8	0.0
78	1	6	401	138	12	1.5	100.3	34.5	3.0	7	145	338	1	1.8	36.3	84.5	0.3
79	1	4	140	80	1	1.0	35.0	20.0	0.3	2	32	132	0	0.5	8.0	33.0	0.0
80	1	0	256	98	7	0.0	64.0	24.5	1.8	0	59	451	4	0.0	14.8	112.8	1.0
81	1	0	427	34	0	0.0	106.8	8.5	0.0	0	170	69	1	0.0	42.5	17.3	0.3
82	1	0	157	23	3	0.0	39.3	5.8	0.8	0	44	40	0	0.0	11.0	10.0	0.0
83	1	16	324	171	15	4.0	81.0	42.7	3.8	37	14	354	5	9.3	3.5	88.5	1.3
84	1	34	526	28	3	8.5	131.5	7.0	0.8	49	127	30	2	12.3	31.8	7.5	0.5
85	1	8	483	22	5	2.0	120.8	5.5	1.3	24	153	32	5	6.0	38.3	8.0	1.3
86	1	572	603	336	18	143.0	150.8	83.9	4.5	141	135	167	0	35.3	33.8	41.8	0.0
87	1	277	713	301	6	69.3	178.3	75.2	1.5	70	62	236	0	17.4	15.5	59.0	0.0
88	1	105	750	319	7	26.3	187.5	79.8	1.8	63	43	164	0	15.8	10.8	40.9	0.0
89	1	2	584	179	6	0.5	146.0	44.8	1.5	0	29	110	2	0.0	7.3	27.5	0.5
90	1	10	22	395	4	2.5	5.5	98.8	1.0	4	3	901	1	1.0	0.8	225.3	0.3
91	1	2	442	82	2	0.5	110.5	20.6	0.5	5	67	107	0	1.3	16.8	26.7	0.0
92	1	0	373	145	5	0.0	93.3	36.4	1.3	0	8	217	1	0.0	2.0	54.1	0.3

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Appendix D1.—(page 4 of 7)

		Legal Males								Sublegal Males							
		Number				CPUE				Number				CPUE			
Station	Stratum	1995[a]	1998[b]	2001[c]	2004	1995[a]	1998[b]	2001[c]	2004	1995[a]	1998[b]	2001[c]	2004	1995[a]	1998[b]	2001[c]	2004
93	1	0	240	74	3	0.0	60.0	18.5	0.8	0	51	152	0	0.0	12.8	38.0	0.0
94	1	0	538	154	13	0.0	134.5	38.6	3.3	0	128	333	2	0.0	32.0	83.1	0.5
95	1	143	449	119	26	35.8	112.3	29.8	6.5	279	78	199	10	69.8	19.5	49.8	2.5
96	1	22	nf	143	31	5.5	-	35.8	7.8	45	nf	199	20	11.3	-	49.8	5.0
97	1	19	nf	40	29	4.8	-	10.0	7.3	49	nf	26	15	12.3	-	6.5	3.8
98	1	1,316	463	115	17	329.1	115.8	28.8	4.3	754	60	10	0	188.4	15.0	2.5	0.0
99	1	632	608	351	14	158.0	152.0	87.8	3.5	214	91	204	0	53.5	22.8	51.0	0.0
100	1	123	811	328	17	30.8	202.8	81.9	4.3	15	50	444	0	3.8	12.5	111.1	0.0
101	1	21	866	361	11	5.3	216.5	90.2	2.8	4	32	156	2	1.0	8.0	39.1	0.5
102	1	0	608	344	3	0.0	152.0	86.0	0.8	0	24	88	0	0.0	6.0	22.0	0.0
103	1	2	548	215	23	0.5	137.0	53.8	5.8	2	73	174	0	0.5	18.3	43.5	0.0
104	1	0	416	139	3	0.0	104.0	34.6	0.8	0	36	183	1	0.0	9.0	45.8	0.3
105	1	0	182	40	3	0.0	45.5	10.0	0.8	0	17	46	1	0.0	4.3	11.5	0.3
106	1	0	nf	151	71	0.0	-	37.7	17.8	0	nf	343	42	0.0	-	85.8	10.5
107	1	32	nf	116	44	8.0	-	29.1	11.0	99	nf	209	44	24.8	-	52.1	11.0
108	1	68	nf	107	29	17.0	-	26.8	7.3	99	nf	120	17	24.8	-	30.0	4.3
109	1	58	nf	144	14	14.5	-	36.0	3.5	115	nf	80	6	28.8	-	20.0	1.5
110	1	418	712	196	17	104.6	178.0	49.0	4.3	126	36	12	0	31.4	9.0	3.0	0.0
111	1	423	703	302	10	105.7	175.8	75.4	2.5	176	66	92	0	44.0	16.5	23.1	0.0
112	1	258	656	288	12	64.5	164.0	72.0	3.0	29	28	36	0	7.3	7.0	9.0	0.0
113	1	195	466	333	50	48.8	116.5	83.3	12.5	28	23	90	2	7.0	5.8	22.5	0.5
114	1	12	445	433	5	3.0	111.3	108.2	1.3	2	21	68	0	0.5	5.3	17.1	0.0
115	1	8	804	146	4	2.0	201.0	36.5	1.0	0	53	130	0	0.0	13.3	32.5	0.0
116	1	50	447	150	6	12.5	111.8	37.5	1.5	10	32	234	1	2.5	8.0	58.5	0.3
117	1	72	nf	260	14	18.0	-	65.1	3.5	21	nf	261	1	5.3	-	65.2	0.3
118	1	0	nf	157	57	0.0	-	39.2	14.3	0	nf	235	24	0.0	-	58.8	6.0
119	1	nf	nf	257	56	-	-	64.4	14.0	nf	nf	132	15	-	-	32.9	3.8
120	1	nf	nf	144	46	-	-	35.9	11.5	nf	nf	172	26	-	-	43.0	6.5
121	1	nf	nf	98	61	-	-	24.5	15.3	nf	nf	90	82	-	-	22.5	20.5
122	1	889	161	107	52	222.1	40.3	26.7	13.0	169	33	10	0	42.3	8.3	2.5	0.0
123	1	268	464	246	3	67.0	116.0	61.4	0.8	99	34	21	1	24.8	8.5	5.3	0.3

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Appendix D1.–(page 5 of 7)

		Legal Males								Sublegal Males							
		Number				CPUE				Number				CPUE			
Station	Stratum	1995[a]	1998[b]	2001[c]	2004	1995[a]	1998[b]	2001[c]	2004	1995[a]	1998[b]	2001[c]	2004	1995[a]	1998[b]	2001[c]	2004
124	1	414	473	290	9	103.5	118.3	72.4	2.3	174	21	29	0	43.5	5.3	7.3	0.0
125	1	397	579	319	19	99.3	144.8	79.7	4.8	62	34	23	2	15.5	8.5	5.8	0.5
126	1	144	448	315	13	36.1	112.0	78.9	3.3	263	28	97	3	65.6	7.0	24.1	0.8
127	1	104	738	415	22	26.0	184.5	103.7	5.5	8	41	204	3	2.0	10.3	51.1	0.8
128	1	80	742	293	8	20.0	185.5	73.3	2.0	17	21	236	0	4.3	5.3	58.9	0.0
129	1	140	nf	207	36	35.0	-	51.8	9.0	20	nf	240	3	5.0	-	59.9	0.8
130	1	0	nf	317	68	0.0	-	79.4	17.0	0	nf	127	27	0.0	-	31.6	6.8
131	1	nf	nf	385	64	-	-	96.3	16.0	nf	nf	307	25	-	-	76.7	6.3
132	1	nf	nf	126	84	-	-	31.5	21.0	nf	nf	62	77	-	-	15.5	19.3
133	1	nf	nf	139	64	-	-	34.7	16.0	nf	nf	132	64	-	-	33.1	16.0
134	1	283	nf	nf	36	70.8	-	-	9.0	72	nf	nf	2	18.0	-	nf	0.5
135	1	384	nf	156	62	96.0	-	39.0	15.5	106	nf	2	0	26.5	-	0.5	0.0
136	1	443	nf	251	17	110.7	-	62.8	4.3	132	nf	8	0	33.0	-	2.0	0.0
137	1	299	nf	293	34	74.8	-	73.2	8.5	82	nf	0	0	20.5	-	0.0	0.0
138	1	238	nf	193	23	59.5	-	48.3	5.8	56	nf	12	2	14.0	-	3.0	0.5
139	1	59	nf	93	nf	14.8	-	23.3	0.0	40	nf	38	nf	10.0	-	9.5	0.0
140	1	138	nf	424	nf	34.5	-	105.9	0.0	44	nf	74	nf	11.0	-	18.6	0.0
141	1	0	nf	297	nf	0.0	-	74.3	0.0	0	nf	74	nf	0.0	-	18.5	0.0
142	1	0	nf	420	nf	0.0	-	104.9	0.0	0	nf	243	nf	0.0	-	60.8	0.0
143	1	nf	nf	392	nf	-	-	97.9	0.0	nf	nf	275	nf	-	-	68.8	0.0
144	1	nf	nf	335	nf	-	-	83.6	0.0	nf	nf	213	nf	-	-	53.4	0.0
145	1	nf	nf	259	nf	-	-	64.8	0.0	nf	nf	133	nf	-	-	33.2	0.0
146	1	0	nf	0	0	0.0	-	0.0	0.0	0	nf	0	0	0.0	-	0.0	0.0
147	1	0	1	0	0	0.0	0.3	0.0	0.0	0	0	0	0	0.0	0.0	0.0	0.0
148	1	0	nf	0	0	0.0	-	0.0	0.0	0	nf	0	0	0.0	-	0.0	0.0
149	1	0	0	0	0	0.0	0.0	0.0	0.0	0	0	0	0	0.0	0.0	0.0	0.0
150	1	0	nf	0	0	0.0	-	0.0	0.0	0	nf	0	0	0.0	-	0.0	0.0
151	1	0	nf	0	0	0.0	-	0.0	0.0	0	nf	0	0	0.0	-	0.0	0.0
152	1	0	nf	0	0	0.0	-	0.0	0.0	0	nf	0	0	0.0	-	0.0	0.0
156	1	nf	2	nf	nf	-	0.5	-	0.0	nf	18	nf	nf	-	4.5	-	0.0
157	1	nf	1	nf	3	-	0.3	-	0.8	nf	2	nf	1	-	0.5	-	0.3

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Appendix D1.–(page 6 of 7)

		Legal Males								Sublegal Males							
		Number				CPUE				Number				CPUE			
Station	Stratum	1995[a]	1998[b]	2001[c]	2004	1995[a]	1998[b]	2001[c]	2004	1995[a]	1998[b]	2001[c]	2004	1995[a]	1998[b]	2001[c]	2004
158	1	nf	0	nf	8	-	0.0	-	2.0	nf	1	nf	2	-	0.3	-	0.5
159	1	nf	0	nf	0	-	0.0	-	0.0	nf	0	nf	0	-	0.0	-	0.0
160	1	nf	0	nf	0	-	0.0	-	0.0	nf	0	nf	0	-	0.0	-	0.0
167	1	nf	3	nf	34	-	0.8	-	8.5	nf	11	nf	36	-	2.8	-	9.0
168	1	nf	0	21	2	-	0.0	5.3	0.5	nf	0	54	3	-	0.0	13.5	0.8
169	1	nf	0	0	0	-	0.0	0.0	0.0	nf	0	0	0	-	0.0	0.0	0.0
170	1	nf	0	nf	0	-	0.0	-	0.0	nf	0	nf	0	-	0.0	-	0.0
171	1	nf	0	nf	0	-	0.0	-	0.0	nf	1	nf	0	-	0.3	-	0.0
172	1	nf	3	nf	14	-	0.8	-	3.5	nf	2	nf	41	-	0.5	-	10.3
173	1	nf	24	nf	nf	-	6.0	-	0.0	nf	154	nf	nf	-	38.5	-	0.0
177	1	nf	3	nf	nf	-	0.8	-	0.0	nf	4	nf	nf	-	1.0	-	0.0
178	1	nf	0	nf	12	-	0.0	-	3.0	nf	0	nf	0	-	0.0	-	0.0
179	1	nf	0	0	0	-	0.0	0.0	0.0	nf	0	0	0	-	0.0	0.0	0.0
180	1	nf	0	0	0	-	0.0	0.0	0.0	nf	0	0	0	-	0.0	0.0	0.0
181	1	nf	0	nf	0	-	0.0	-	0.0	nf	0	nf	0	-	0.0	-	0.0
182	1	nf	0	nf	0	-	0.0	-	0.0	nf	0	nf	0	-	0.0	-	0.0
183	1	nf	36	nf	nf	-	9.0	-	0.0	nf	149	nf	nf	-	37.3	-	0.0
184	1	nf	48	nf	nf	-	12.0	-	0.0	nf	507	nf	nf	-	126.8	-	0.0
186	1	nf	0	nf	nf	-	0.0	-	0.0	nf	0	nf	nf	-	0.0	-	0.0
187	1	nf	0	nf	nf	-	0.0	-	0.0	nf	0	nf	nf	-	0.0	-	0.0
188	1	nf	8	nf	0	-	2.0	-	0.0	nf	23	nf	0	-	5.8	-	0.0
189	1	nf	1	0	0	-	0.3	0.0	0.0	nf	0	0	0	-	0.0	0.0	0.0
190	1	nf	0	0	nf	-	0.0	0.0	-	nf	0	0	nf	-	0.0	0.0	-
191	1	nf	0	nf	nf	-	0.0	-	-	nf	1	nf	nf	-	0.3	-	-
192	1	nf	0	nf	nf	-	0.0	-	-	nf	0	nf	nf	-	0.0	-	-
193	1	nf	122	nf	nf	-	30.5	-	-	nf	156	nf	nf	-	39.0	-	-
194	1	nf	93	nf	nf	-	23.3	-	-	nf	829	nf	nf	-	207.3	-	-
195	1	nf	80	nf	nf	-	20.0	-	-	nf	357	nf	nf	-	89.3	-	-
196	1	nf	15	nf	nf	-	3.8	-	-	nf	22	nf	nf	-	5.5	-	-
197	1	nf	274	nf	nf	-	68.5	-	-	nf	437	nf	nf	-	109.3	-	-
198	1	nf	98	nf	nf	-	24.5	-	-	nf	250	nf	nf	-	62.5	-	-

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Appendix D1.–(page 7 of 7)

		Legal Males								Sublegal Males							
		Number				CPUE				Number				CPUE			
Station	Stratum	1995[a]	1998[b]	2001[c]	2004	1995[a]	1998[b]	2001[c]	2004	1995[a]	1998[b]	2001[c]	2004	1995[a]	1998[b]	2001[c]	2004
199	1	nf	3	nf	nf	-	0.8	-	-	nf	3	nf	nf	-	0.8	-	-
200	1	nf	75	nf	nf	-	18.8	-	-	nf	72	nf	nf	-	18.0	-	-
201	1	nf	0	0	0	-	0.0	0.0	0.0	nf	0	0	0	-	0.0	0.0	0.0
202	1	nf	nf	nf	0	-	-	0.0	0.0	nf	nf	nf	0	-	-	0.0	0.0
203	1	nf	nf	nf	0	-	-	0.0	0.0	nf	nf	nf	0	-	-	0.0	0.0
301	3	nf	nf	nf	0	-	-	-	0.0	nf	nf	nf	0	-	-	-	0.0
302	3	nf	nf	nf	0	-	-	-	0.0	nf	nf	nf	2	-	-	-	0.5
303	3	nf	nf	nf	0	-	-	-	0.0	nf	nf	nf	0	-	-	-	0.0
304	3	nf	nf	nf	0	-	-	-	0.0	nf	nf	nf	0	-	-	-	0.0
305	3	nf	nf	nf	0	-	-	-	0.0	nf	nf	nf	2	-	-	-	0.5
306	3	nf	nf	nf	0	-	-	-	0.0	nf	nf	nf	1	-	-	-	0.3
307	3	nf	nf	nf	0	-	-	-	0.0	nf	nf	nf	0	-	-	-	0.0
308	3	nf	nf	nf	0	-	-	-	0.0	nf	nf	nf	0	-	-	-	0.0
309	3	nf	nf	nf	0	-	-	-	0.0	nf	nf	nf	0	-	-	-	0.0
310	3	nf	nf	nf	3	-	-	-	0.8	nf	nf	nf	0	-	-	-	0.0
Total		10,143	27,813	19,365	1,667	18.4	50.8	30.3	2.2	4,562	6,507	17,193	685	8.3	11.9	26.9	0.9

[a] 1995 survey data from Blau (1996) and the 'StMatt95' database as of October 31, 2004.

[b] 1998 survey data from Blau and Watson (1999a) and the 'StMatt98' database as of October 31, 2004.

[c] 2001 survey data from Watson and Burt (2002) and the 'StMatt01' database as of October 31, 2004.

[d] nf – station not fished.

APPENDIX E.
FEMALE BLUE KING CRAB CATCH, 1995, 1998, 2001, AND 2004 ST. MATTHEW ISLAND SURVEYS

Appendix E1.–Female snow crab catch and catch per unit effort (CPUE) by station from the 1995, 1998, 2001, and 2004 St. Matthew Island blue king crab surveys. Data presented is from all stations fished in each survey year.

		Number				CPUE			
Station	Stratum	1995[a]	1998[b]	2001[c]	2004	1995[a]	1998[b]	2001[c]	2004
1	1	0	0	15	0	0.0	0.0	3.8	0.0
2	1	0	8	0	0	0.0	2.0	0.0	0.0
3	1	0	0	0	0	0.0	0.0	0.0	0.0
4	2	0	0	0	0	0.0	0.0	0.0	0.0
5	2	0	0	0	0	0.0	0.0	0.0	0.0
6	1	0	0	49	0	0.0	0.0	12.3	0.0
7	1	0	0	13	0	0.0	0.0	3.3	0.0
8	1	0	1	0	0	0.0	0.3	0.0	0.0
9	2	0	0	0	0	0.0	0.0	0.0	0.0
10	2	0	0	0	0	0.0	0.0	0.0	0.0
11	2	0	0	0	0	0.0	0.0	0.0	0.0
12	2	0	nf[d]	0	0	0.0	-	0.0	0.0
13	2	0	nf	0	0	0.0	-	0.0	0.0
14	2	0	nf	0	0	0.0	-	0.0	0.0
15	1	0	4	83	0	0.0	1.0	20.8	0.0
16	1	0	0	66	0	0.0	0.0	16.5	0.0
17	1	0	2	49	0	0.0	0.5	12.3	0.0
18	2	0	1	0	0	0.0	0.3	0.0	0.0
19	2	0	0	0	0	0.0	0.0	0.0	0.0
20	2	0	1	1	0	0.0	0.3	0.3	0.0
21	2	0	0	0	0	0.0	0.0	0.0	0.0
22	1	nf	0	0	0	-	0.0	0.0	0.0
23	1	nf	0	0	0	-	0.0	0.0	0.0
24	2	0	nf	0	0	0.0	-	0.0	0.0
25	2	0	nf	0	0	0.0	-	0.0	0.0
26	2	0	nf	0	0	0.0	-	0.0	0.0
27	1	nf	0	193	0	-	0.0	48.3	0.0
28	1	2	0	102	0	0.5	0.0	25.5	0.0
29	1	0	0	48	0	0.0	0.0	12.0	0.0
30	2	0	1	18	0	0.0	0.3	4.5	0.0
31	2	0	0	0	0	0.0	0.0	0.0	0.0
32	2	0	0	0	0	0.0	0.0	0.0	0.0
33	2	0	0	0	0	0.0	0.0	0.0	0.0
34	2	0	0	0	0	0.0	0.0	0.0	0.0
35	2	0	0	0	0	0.0	0.0	0.0	0.0
36	1	0	0	0	0	0.0	0.0	0.0	0.0
37	1	0	0	0	0	0.0	0.0	0.0	0.0
38	2	0	nf	13	0	0.0	-	3.3	0.0
39	2	0	nf	0	0	0.0	-	0.0	0.0
40	2	0	nf	1	0	0.0	-	0.3	0.0
41	2	0	nf	0	0	0.0	-	0.0	0.0
42	2	0	nf	0	0	0.0	-	0.0	0.0
43	2	0	nf	0	0	0.0	-	0.0	0.0
44	1	nf	0	42	0	-	0.0	10.5	0.0

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Appendix E1.–(page 2 of 5)

		Number				CPUE			
Station	Stratum	1995[a]	1998[b]	2001[c]	2004	1995[a]	1998[b]	2001[c]	2004
45	1	0	0	120	0	0.0	0.0	30.0	0.0
46	1	0	0	20	0	0.0	0.0	5.0	0.0
47	2	0	5	32	0	0.0	1.3	8.0	0.0
48	2	0	0	13	0	0.0	0.0	3.3	0.0
49	2	0	0	0	0	0.0	0.0	0.0	0.0
50	2	0	0	0	0	0.0	0.0	0.0	0.0
51	2	0	0	0	0	0.0	0.0	0.0	0.0
52	2	0	0	0	0	0.0	0.0	0.0	0.0
53	2	0	0	0	0	0.0	0.0	0.0	0.0
54	1	0	0	0	0	0.0	0.0	0.0	0.0
55	1	0	0	0	0	0.0	0.0	0.0	0.0
56	2	0	nf	21	0	0.0	-	5.3	0.0
57	2	0	nf	21	0	0.0	-	5.3	0.0
58	2	0	nf	0	0	0.0	-	0.0	0.0
59	2	0	nf	0	0	0.0	-	0.0	0.0
60	2	0	nf	0	0	0.0	-	0.0	0.0
61	2	0	nf	0	0	0.0	-	0.0	0.0
62	1	nf	1	3	0	-	0.3	0.8	0.0
63	1	0	0	17	0	0.0	0.0	4.3	0.0
64	1	0	1	9	0	0.0	0.3	2.3	0.0
65	2	0	0	115	0	0.0	0.0	28.8	0.0
66	2	0	27	77	0	0.0	6.8	19.3	0.0
67	2	0	0	3	0	0.0	0.0	0.8	0.0
68	2	0	1	1	0	0.0	0.3	0.3	0.0
69	2	0	0	0	0	0.0	0.0	0.0	0.0
70	2	0	0	0	0	0.0	0.0	0.0	0.0
71	2	0	0	0	0	0.0	0.0	0.0	0.0
72	1	0	0	0	0	0.0	0.0	0.0	0.0
73	1	0	4	0	0	0.0	1.0	0.0	0.0
74	1	0	0	1	1	0.0	0.0	0.3	0.3
75	1	0	0	159	0	0.0	0.0	39.8	0.0
76	1	0	0	0	0	0.0	0.0	0.0	0.0
77	1	0	0	310	0	0.0	0.0	77.5	0.0
78	1	0	2	97	0	0.0	0.5	24.3	0.0
79	1	0	3	73	0	0.0	0.8	18.3	0.0
80	1	0	2	293	1	0.0	0.5	73.3	0.3
81	1	0	4	9	0	0.0	1.0	2.3	0.0
82	1	0	0	3	0	0.0	0.0	0.8	0.0
83	1	0	0	41	0	0.0	0.0	10.3	0.0
84	1	0	0	1	1	0.0	0.0	0.3	0.3
85	1	0	1	0	0	0.0	0.3	0.0	0.0
86	1	0	0	0	0	0.0	0.0	0.0	0.0
87	1	0	0	99	1	0.0	0.0	24.8	0.3
88	1	0	0	17	0	0.0	0.0	4.3	0.0
89	1	0	0	0	0	0.0	0.0	0.0	0.0
90	1	0	2	1280	0	0.0	0.5	320.0	0.0

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Appendix E1.–(page 3 of 5)

		Number				CPUE			
Station	Stratum	1995[a]	1998[b]	2001[c]	2004	1995[a]	1998[b]	2001[c]	2004
91	1	0	1	15	0	0.0	0.3	3.8	0.0
92	1	0	0	41	0	0.0	0.0	10.3	0.0
93	1	0	0	14	0	0.0	0.0	3.5	0.0
94	1	0	3	186	0	0.0	0.8	46.5	0.0
95	1	3	4	18	1	0.8	1.0	4.5	0.3
96	1	0	nf	29	0	0.0	-	7.3	0.0
97	1	0	nf	0	0	0.0	-	0.0	0.0
98	1	0	1	1	0	0.0	0.3	0.3	0.0
99	1	0	0	1	0	0.0	0.0	0.3	0.0
100	1	0	0	1	0	0.0	0.0	0.3	0.0
101	1	0	0	3	0	0.0	0.0	0.8	0.0
102	1	0	0	6	0	0.0	0.0	1.5	0.0
103	1	0	1	31	0	0.0	0.3	7.8	0.0
104	1	0	1	82	0	0.0	0.3	20.5	0.0
105	1	0	2	35	0	0.0	0.5	8.8	0.0
106	1	0	nf	350	3	0.0	-	87.5	0.8
107	1	0	nf	89	6	0.0	-	22.3	1.5
108	1	0	nf	28	2	0.0	-	7.0	0.5
109	1	8	nf	7	0	2.0	-	1.8	0.0
110	1	0	1	0	0	0.0	0.3	0.0	0.0
111	1	0	0	0	0	0.0	0.0	0.0	0.0
112	1	0	0	1	0	0.0	0.0	0.3	0.0
113	1	0	0	0	0	0.0	0.0	0.0	0.0
114	1	0	0	3	0	0.0	0.0	0.8	0.0
115	1	0	0	95	0	0.0	0.0	23.8	0.0
116	1	0	2	347	0	0.0	0.5	86.8	0.0
117	1	0	nf	966	0	0.0	-	241.5	0.0
118	1	0	nf	514	2	0.0	-	128.5	0.5
119	1	nf	nf	54	1	-	-	13.5	0.3
120	1	nf	nf	55	3	-	-	13.8	0.8
121	1	nf	nf	7	45	-	-	1.8	11.3
122	1	0	141	4	0	0.0	35.3	1.0	0.0
123	1	0	1	0	0	0.0	0.3	0.0	0.0
124	1	0	0	0	0	0.0	0.0	0.0	0.0
125	1	0	0	1	0	0.0	0.0	0.3	0.0
126	1	0	0	0	0	0.0	0.0	0.0	0.0
127	1	0	0	220	0	0.0	0.0	55.0	0.0
128	1	0	0	208	0	0.0	0.0	52.0	0.0
129	1	0	nf	298	0	0.0	-	74.5	0.0
130	1	0	nf	380	13	0.0	-	95.0	3.3
131	1	nf	nf	192	3	-	-	48.0	0.8
132	1	nf	nf	10	36	-	-	2.5	9.0
133	1	nf	nf	18	54	-	-	4.5	13.5
134	1	0	nf	0	0	0.0	-	0.0	0.0
135	1	3	nf	0	0	0.8	-	0.0	0.0
136	1	0	nf	0	0	0.0	-	0.0	0.0

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Appendix E1.–(page 4 of 5)

		Number				CPUE			
Station	Stratum	1995[a]	1998[b]	2001[c]	2004	1995[a]	1998[b]	2001[c]	2004
137	1	0	nf	0	0	0.0	-	0.0	0.0
138	1	0	nf	0	0	0.0	-	0.0	0.0
139	1	0	nf	12	nf	0.0	-	3.0	0.0
140	1	0	nf	222	nf	0.0	-	55.5	0.0
141	1	0	nf	56	nf	0.0	-	14.0	0.0
142	1	0	nf	342	nf	0.0	-	85.5	0.0
143	1	nf	nf	140	nf	-	-	35.0	0.0
144	1	nf	nf	19	nf	-	-	4.8	0.0
145	1	nf	nf	3	nf	-	-	0.8	0.0
146	1	0	nf	0	0	0.0	-	0.0	0.0
147	1	0	0	0	0	0.0	0.0	0.0	0.0
148	1	0	nf	0	0	0.0	-	0.0	0.0
149	1	0	0	0	0	0.0	0.0	0.0	0.0
150	1	0	nf	0	0	0.0	-	0.0	0.0
151	1	0	nf	0	0	0.0	-	0.0	0.0
152	1	0	nf	0	0	0.0	-	0.0	0.0
156	1	nf	4	nf	nf	-	1.0	-	0.0
157	1	nf	0	nf	0	-	0.0	-	0.0
158	1	nf	0	nf	0	-	0.0	-	0.0
159	1	nf	0	nf	0	-	0.0	-	0.0
160	1	nf	0	nf	0	-	0.0	-	0.0
167	1	nf	3	nf	2	-	0.8	-	0.5
168	1	nf	0	3	0	-	0.0	0.8	0.0
169	1	nf	0	0	0	-	0.0	0.0	0.0
170	1	nf	0	nf	0	-	0.0	-	0.0
171	1	nf	0	nf	0	-	0.0	-	0.0
172	1	nf	0	nf	9	-	0.0	-	2.3
173	1	nf	158	nf	nf	-	39.5	-	0.0
177	1	nf	2	nf	nf	-	0.5	-	0.0
178	1	nf	0	nf	0	-	0.0	-	0.0
179	1	nf	0	0	0	-	0.0	0.0	0.0
180	1	nf	0	0	0	-	0.0	0.0	0.0
181	1	nf	0	nf	0	-	0.0	-	0.0
182	1	nf	0	nf	0	-	0.0	-	0.0
183	1	nf	36	nf	nf	-	9.0	-	0.0
184	1	nf	647	nf	nf	-	161.8	-	0.0
186	1	nf	0	nf	nf	-	0.0	-	0.0
187	1	nf	0	nf	nf	-	0.0	-	0.0
188	1	nf	7	nf	0	-	1.8	-	0.0
189	1	nf	0	0	0	-	0.0	0.0	0.0
190	1	nf	0	0	nf	-	0.0	0.0	-
191	1	nf	1	nf	nf	-	0.3	-	-
192	1	nf	0	nf	nf	-	0.0	-	-
193	1	nf	8	nf	nf	-	2.0	-	-
194	1	nf	339	nf	nf	-	84.8	-	-
195	1	nf	44	nf	nf	-	11.0	-	-

-continued-

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		Number				CPUE			
Station	Stratum	1995[a]	1998[b]	2001[c]	2004	1995[a]	1998[b]	2001[c]	2004
196	1	nf	0	nf	nf	-	0.0	-	-
197	1	nf	97	nf	nf	-	24.3	-	-
198	1	nf	46	nf	nf	-	11.5	-	-
199	1	nf	0	nf	nf	-	0.0	-	-
200	1	nf	3	nf	nf	-	0.8	-	-
201	1	nf	0	0	0	-	0.0	0.0	0.0
202	1	nf	nf	nf	0	-	-	-	0.0
203	1	nf	nf	nf	0	-	-	-	0.0
301	3	nf	nf	nf	2	-	-	-	0.5
302	3	nf	nf	nf	0	-	-	-	0.0
303	3	nf	nf	nf	0	-	-	-	0.0
304	3	nf	nf	nf	0	-	-	-	0.0
305	3	nf	nf	nf	1	-	-	-	0.3
306	3	nf	nf	nf	5	-	-	-	1.3
307	3	nf	nf	nf	1	-	-	-	0.3
308	3	nf	nf	nf	7	-	-	-	1.8
309	3	nf	nf	nf	1	-	-	-	0.3
310	3	nf	nf	nf	16	-	-	-	4.0
Total		16	1624	8635	2177	14.4	2.9	13.5	0.3

[a] 1995 survey data from Blau (1996) and the 'StMatt95' database as of October 31, 2004.

[b] 1998 survey data from Blau and Watson (1999a) and the 'StMatt98' database as of October 31, 2004.

[c] 2001 survey data from Watson and Burt (2002) and the 'StMatt01' database as of October 31, 2004.

[d] nf – station not fished.