

**Fishery Management Report No. 05-64**

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**Fishery Management Plan for the Commercial Tanner  
Crab Fishery in the Chignik District of Registration  
Area J, 2006**

by

**Nicholas H. Sagalkin**

and

**Lynn A. Mattes**

November 2005

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Alaska Department of Fish and Game

Divisions of Sport Fish and Commercial Fisheries



## Symbols and Abbreviations

The following symbols and abbreviations, and others approved for the Système International d'Unités (SI), are used without definition in the following reports by the Divisions of Sport Fish and of Commercial Fisheries: Fishery Manuscripts, Fishery Data Series Reports, Fishery Management Reports, and Special Publications. All others, including deviations from definitions listed below, are noted in the text at first mention, as well as in the titles or footnotes of tables, and in figure or figure captions.

<b>Weights and measures (metric)</b>		<b>General</b>		<b>Measures (fisheries)</b>	
centimeter	cm	Alaska Department of		fork length	FL
deciliter	dL	Fish and Game	ADF&G	mid-eye-to-fork	MEF
gram	g	Alaska Administrative		mid-eye-to-tail-fork	METF
hectare	ha	Code	AAC	standard length	SL
kilogram	kg	all commonly accepted		total length	TL
kilometer	km	abbreviations	e.g., Mr., Mrs., AM, PM, etc.		
liter	L			<b>Mathematics, statistics</b>	
meter	m	all commonly accepted		<i>all standard mathematical</i>	
milliliter	mL	professional titles	e.g., Dr., Ph.D., R.N., etc.	<i>signs, symbols and</i>	
millimeter	mm		@	<i>abbreviations</i>	
		at		alternate hypothesis	H <sub>A</sub>
<b>Weights and measures (English)</b>		compass directions:		base of natural logarithm	e
cubic feet per second	ft <sup>3</sup> /s	east	E	catch per unit effort	CPUE
foot	ft	north	N	coefficient of variation	CV
gallon	gal	south	S	common test statistics	(F, t, $\chi^2$ , etc.)
inch	in	west	W	confidence interval	CI
mile	mi	copyright	©	correlation coefficient	
nautical mile	nmi	corporate suffixes:		(multiple)	R
ounce	oz	Company	Co.	correlation coefficient	
pound	lb	Corporation	Corp.	(simple)	r
quart	qt	Incorporated	Inc.	covariance	cov
yard	yd	Limited	Ltd.	degree (angular)	°
		District of Columbia	D.C.	degrees of freedom	df
<b>Time and temperature</b>		et alii (and others)	et al.	expected value	E
day	d	et cetera (and so forth)	etc.	greater than	>
degrees Celsius	°C	exempli gratia		greater than or equal to	≥
degrees Fahrenheit	°F	(for example)	e.g.	harvest per unit effort	HPUE
degrees kelvin	K	Federal Information		less than	<
hour	h	Code	FIC	less than or equal to	≤
minute	min	id est (that is)	i.e.	logarithm (natural)	ln
second	s	latitude or longitude	lat. or long.	logarithm (base 10)	log
		monetary symbols		logarithm (specify base)	log <sub>2</sub> , etc.
<b>Physics and chemistry</b>		(U.S.)	\$, ¢	minute (angular)	'
all atomic symbols		months (tables and		not significant	NS
alternating current	AC	figures): first three		null hypothesis	H <sub>0</sub>
ampere	A	letters	Jan,...,Dec	percent	%
calorie	cal	registered trademark	®	probability	P
direct current	DC	trademark	™	probability of a type I error	
hertz	Hz	United States		(rejection of the null	
horsepower	hp	(adjective)	U.S.	hypothesis when true)	α
hydrogen ion activity	pH	United States of		probability of a type II error	
(negative log of)		America (noun)	USA	(acceptance of the null	
parts per million	ppm	U.S.C.	United States	hypothesis when false)	β
parts per thousand	ppt, ‰	U.S. state	Code	second (angular)	"
			use two-letter	standard deviation	SD
volts	V		abbreviations	standard error	SE
watts	W		(e.g., AK, WA)	variance	
				population	Var
				sample	var

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## ABSTRACT

The Chignik District will open for a commercial Tanner crab *Chionoecetes bairdi* fishery on January 15, 2006 with a guideline harvest level of 200,000 pounds. This report provides a brief historic overview of the fishery and summarizes the harvest strategy for Chignik District Tanner crabs, and the Semidi Island Overlap Section. Information on tank inspections, inseason reporting, pot storage, landing requirements, gear operation hours, and contact personnel within the Alaska Department of Fish and Game, the Division of Fish and Wildlife Protection, and the Commercial Fisheries Entry Commission are also provided. Harvesters are encouraged to use this document as a supplement to the 2005-2006 Commercial King and Tanner Crab Fishing Regulations to understand changes affecting this fishery.

Key words: Chignik District, Semidi Island Overlap Section, Tanner crab fishery, *Chionoecetes bairdi*, harvest strategy, regulations

## INTRODUCTION

The Chignik District of Area J, as described for the commercial Tanner crab *Chionoecetes bairdi* fishery, includes all Pacific Ocean waters east of a line from the southernmost tip of Kupreanof Point to the easternmost point of Castle Rock, and east of a line extending southeast 135° from the easternmost point of Castle Rock, and west of the longitude of the easternmost tip of Cape Kumlik (Figure 1). A full description of the district can be found at 5 AAC 35.505 DESCRIPTION OF REGISTRATION AREA J DISTRICTS on page 138-139 of the 2005-2006 Commercial King and Tanner Crab Fishing Regulations, which will be referred to as ‘crab regulations’ for the remainder of this report. The Chignik District is a superexclusive registration district for Tanner crabs.

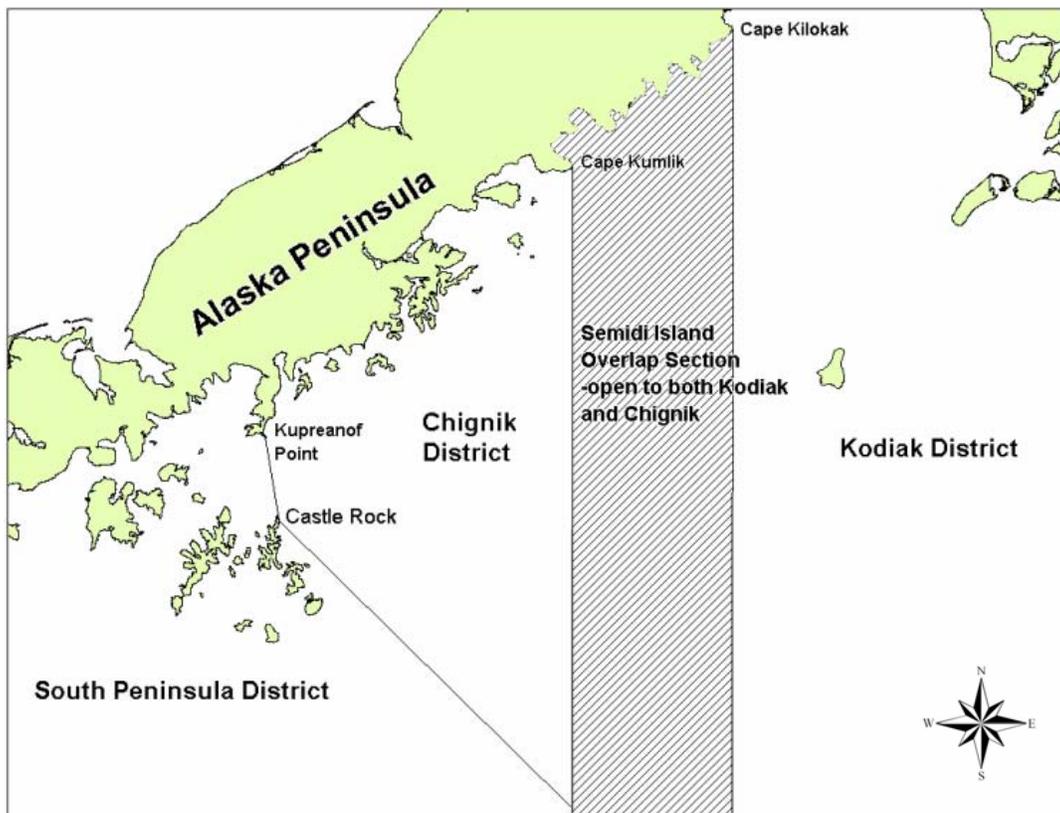


Figure 1.—Chignik Tanner crab District, 2006.

## OVERVIEW

The Chignik District commercial Tanner crab fishery began in 1968 when 21,100 pounds were harvested (Table 1). The fishery peaked in 1975/76 when 35 vessels harvested approximately 11.2 million pounds. Annual harvests decreased through the late 1970s. Recruitment failures in the early 1980s led to consecutively smaller harvests until 1989, when a small resurgence occurred. Historically, much of the effort in the Chignik District occurred in late March following the closure of the Kodiak and South Peninsula Districts. Many of the most productive areas were offshore between Mitrofanina Island, Lighthouse Rocks, and the Semidi Islands.

The Alaska Department of Fish and Game (ADF&G) did not begin conducting abundance surveys in the Chignik District until 1981. Surveys in the early 1980s predicted poor recruitment in the near future. As expected, the recruitment and subsequent fisheries were increasingly poor. Catches in those years declined first in the productive offshore areas, then later in bays. The district was closed to commercial fishing in 1990 and remained closed until the 2004/05 season.

In 1999, the Board of Fisheries (BOF) adopted a comprehensive harvest strategy for Tanner crabs in the Chignik District. The harvest strategy established minimum abundance threshold that must be met to allow for a commercial Tanner crab fishery to occur (Urban et al. 1999). The harvest strategy also required that a minimum guideline harvest level (GHL) of 200,000 pounds must exist before a fishery could be prosecuted.

## REGULATIONS

### OVERVIEW

Regulations pertaining to Tanner crab fishing in the State of Alaska can be found in chapter 35 of the Alaska Administrative Code (AAC). Chapter 35 begins on page 119 of the 2005-2006 crab regulation booklet. Specific regulations that pertain to the Tanner crab fisheries in Registration Area J (Westward Region) begin on page 138. The harvest strategy regulation, 5 AAC 35.507 KODIAK, CHIGNIK, AND SOUTH PENINSULA DISTRICTS, *C. bairdi* TANNER CRAB HARVEST STRATEGIES, can be found on pages 140-141 of the crab regulations. Some of the regulations regarding Tanner crab fishing are summarized below. For additional information on regulations, contact the ADF&G office in Kodiak and refer to the crab regulations (available at ADF&G offices or at our website: <http://www.state.ak.us/adfg/>). The following is an overview of regulations pertaining to Tanner crab fishing in the Chignik District:

**The Chignik District is a superexclusive registration district for Tanner crabs, 5 AAC 35.506 AREA J REGISTRATION (a).** A vessel validly registered for a superexclusive registration area may not be used to take Tanner crab in any other registration area during that registration year, 5 AAC 35.005 (c). A vessel is considered registered for the Chignik District Tanner crab fishery once the vessel has had a tank inspection, 5 AAC 35.020 (e & f); a valid registration does not require actual fishery participation or landing.

A vessel operator or permit holder that registers for the 2006 Chignik District Tanner crab fishery may not operate any other Tanner crab vessel registered for any other superexclusive registration area within the same registration year, 5 AAC 35.020 (h).

The Tanner crab registration year is August 1-July 31, 5 AAC 35.020 (c).

- **There is no weather delay regulation for the Chignik District.**
- **The pot limit for 2006 is 30 pots per vessel in the Chignik District.** Pot limit regulatory language is under 5 AAC 35.525 LAWFUL GEAR FOR REGISTRATION AREA J (c)(2); except if vessels register to fish in the **Semidi Island Overlap Section** of the Kodiak District, the **pot limit is 70 pots** per vessel in the Semidi Island Overlap Section. **Additional regulations, registrations and reporting apply** to those vessels fishing in the Semidi Island Overlap Section of the Kodiak District.
- **Fishing gear may be operated for 10 hours each day from 8:00 AM to 5:59 PM.** Baited gear may be left in the water for the 14 hours from 6:00 PM to 7:59 AM each night. The regulation for the daily fishing and soak periods can be found under 5 AAC 35.510 FISHING SEASONS FOR REGISTRATION AREA J (b).
- **A person or vessel that operates pot gear (e.g., Pacific cod, subsistence or personal use pots) within the district 14 days prior to the Chignik District Tanner crab fishery opening may not participate in the commercial Tanner crab fishery.** The regulation for operation of other pot gear can be found under 5 AAC 35.053 OPERATION OF OTHER POT GEAR.
- Only vessels 58' or less may participate in the commercial Tanner crab fishery in the Chignik District, 5 AAC 35.590 VESSEL LENGTH RESTRICTIONS.

## **HARVEST STRATEGY**

Chignik District GHL for 2006 Season is 200,000 Pounds. The estimated number of legal male crabs from the 2005 trawl survey in this district is just over 450,000 animals, approximately half the abundance estimated in 2004. The abundance of legal-male Tanner crab per kilometer towed from the 2004 trawl survey is displayed in Figure 2.

The fishery will close on March 31, or when ADF&G determines that the GHL is achieved or when conditions indicate a threat to the long-term health of the stock, such as observations of low catch per pot or excessive bycatch of female or sublegal male Tanner crabs.

ADF&G may manage bays and offshore areas separately, closing one portion of the Chignik District while allowing continued harvest in other locations of the district. ADF&G will manage in a manner that prevents the commercial fishery from significantly exceeding the number of animals available for harvest, as estimated by the survey within bays.

## **TAGS**

**Tags will be available for purchase beginning December 12, 2005 at a cost of \$1.50 per tag.**

A valid 2006 Tanner crab Commercial Fisheries Entry Commission (CFEC) permit card is required to purchase tags. Participants from areas outside the cities of Kodiak, Sand Point, or Chignik can purchase tags via U.S. Mail until December 31. No tags will be mailed after this date; call the ADF&G office in Kodiak for details at (907) 486-1840. Tags will be sold by department representatives in Sand Point and Chignik after January 10<sup>th</sup>. Appendix B contains additional contact information.

**Replacement tags may be obtained by contacting the Alaska Department of Fish and Game in Kodiak or the department representative in Sand Point.** The vessel owner, operator, or agent must complete an affidavit form describing how the tags were lost and supply the unique number(s) of each lost tag.

**Pots with lost tags must be secured open with the bait removed until replacement tags are obtained.** Vessels must contact Alaska State Troopers, Division of Wildlife Protection to inform them of the situation (Appendix B).

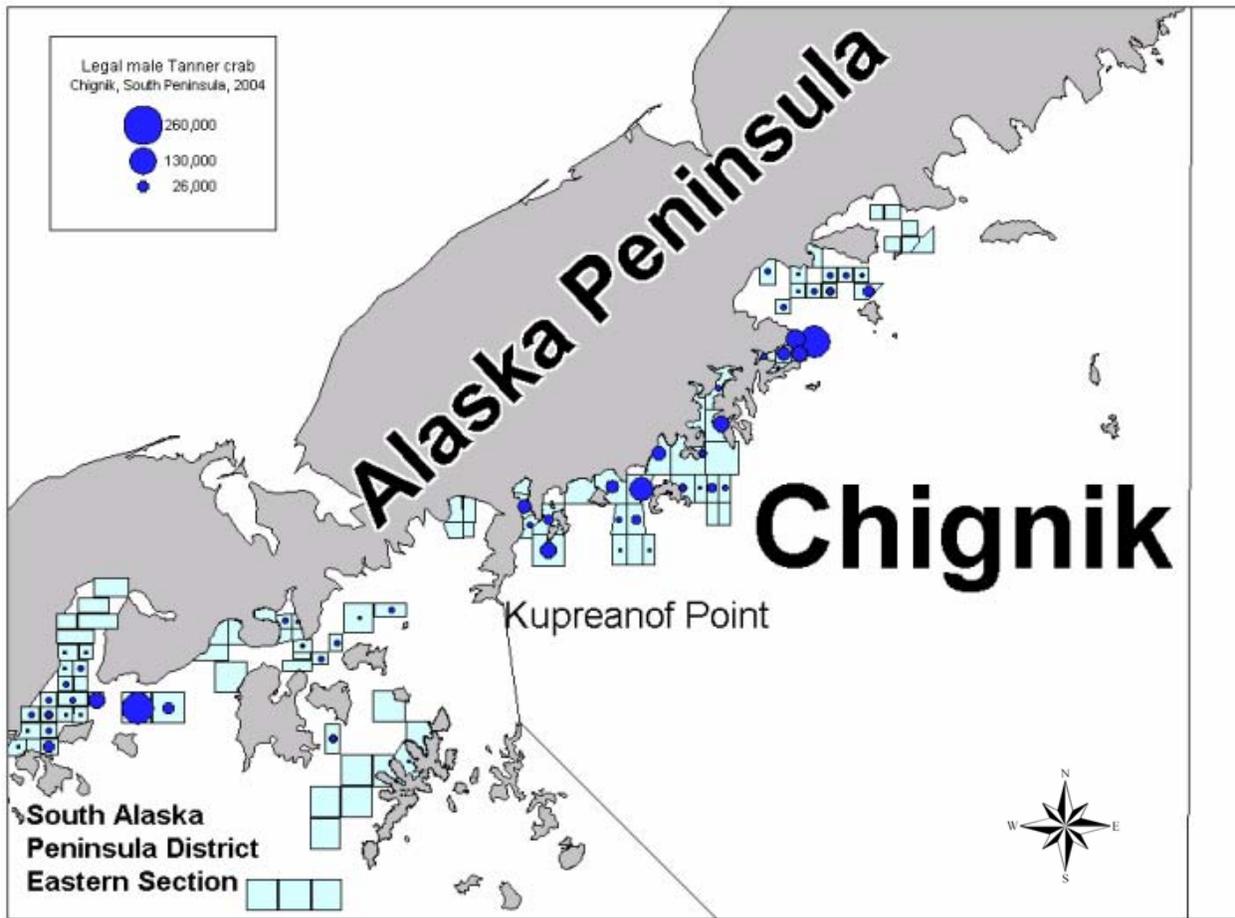


Figure 2.—Number of legal male Tanner crabs per kilometer towed in the 2004 Chignik trawl survey.

## LEGAL GEAR

Gear for the commercial Tanner crab fishery is limited to pots no more than 10 feet long by 10 feet wide by 42 inches high with rigid tunnel eye openings less than five inches in height. Tunnel eye opening perimeters must be individually more than 36 inches. Ring nets **are not** legal gear in the Chignik District for the commercial harvest of Tanner crabs. The specific language regarding legal pot dimensions can be found under 5 AAC 35.050 **LAWFUL GEAR FOR TANNER CRAB** on page 123 of the crab regulations.

Escape mesh or ring requirements are included in the regulations for legal Tanner gear. Each pot used to take Tanner crabs must have at least one third of one vertical surface of the pot composed of not less than 7-1/4 inch stretched mesh webbing or have no less than four circular escape rings which have an inside diameter of at least five inches. If using rings, they must be installed on the vertical plane of the pot to allow for escapement of undersized crabs. The rings are not required to be placed within a certain distance from the bottom as they are in some Bering Sea fisheries. However, ADF&G recommends placing rings within one mesh of the bottom of the pot to optimize escapement of undersized crabs. The specific language on escape device requirements can be found under 5 AAC 35.525 **LAWFUL GEAR FOR REGISTRATION AREA J** on page 147 of the crab regulations.

All pots must be equipped with a biodegradable escape mechanism as described in 5 AAC 39.145 ESCAPE MECHANISM FOR SHELLFISH AND BOTTOMFISH POTS on page 57 of the crab regulations. An opening 18 inches or greater in length that is placed within six inches of the bottom of the pot must be laced, sewn, or secured together by a single length of untreated, 100 percent cotton twine no larger than 30 thread.

Buoys attached to pots must comply with 5 AAC 35.051 TANNER CRAB GEAR MARKING REQUIREMENTS listed on page 123 and 5 AAC 35.526 TANNER CRAB GEAR MARKING REQUIREMENTS AREA J on page 148-149 of the crab regulations. The buoy that contains the ADF&G number may not be marked with additional numbers; however, symbols and letters are acceptable on the buoy with the ADF&G number. Trailer or other buoys used to mark ownership or string sequence may be marked with any desired numbers, symbols, or letters.

The use of converted pots as ‘storage boxes’ to store crabs in the water for vessels registered as dry tanked vessels is not permitted unless crab storage devices are attached to the vessel at all times.

### **OPERATION OF OTHER POT GEAR, POT STORAGE, AND LANDING REQUIREMENTS**

There is a 14-day “stand down period” for the operation of pot gear before the commercial Tanner crab fishery opening in the Chignik District. No person or vessel that will participate in the commercial Tanner crab fishery may operate commercial, subsistence, sport, or personal use pots for any species within the district during the 14-day period prior to the fishery opening (5AAC 35.053 (1) OPERATION OF OTHER POT GEAR on page 124 of the crab regulations).

Legally outfitted pots with buoy tags attached *may be* placed into shallow water storage during the 14-day stand down period. However, vessels may not retrieve gear already in legal storage to put tags on gear during the 14-day stand down period. In addition, vessels **will not** be allowed to retrieve gear from storage during the 24-hour period after tank inspection but before the fishery opening, due to enforcement concerns. There is no way to distinguish a vessel retrieving gear from storage and a vessel fishing before the opening. At the time of registration, all gear onboard and in the water must have buoy tags affixed to be in regulatory compliance.

After the closure of the Tanner crab season, vessels wishing to participate in the Pacific cod fishery must either place pots into shallow-water storage or on land and register with ADF&G for the Pacific cod fishery. Additional stipulations on the operation of other pot gear within the Chignik District can be found under 5 AAC 35.053 OPERATION OF OTHER POT GEAR on page 124 of the crab regulations.

Up to 30 pots may be stored before the season in waters of 25 fathoms or less with all bait and bait containers removed and with the doors secured fully open (or not secured closed for cone or pyramid pots). No vessel may have more than the specified pot limit onboard or in wet storage in the registration district while the vessel is validly registered. The regulatory language concerning pot storage can be found at 5 AAC 35.527 TANNER CRAB POT STORAGE REQUIREMENTS FOR AREA J (3) on page 149 of the crab regulations.

### **SUMMARY OF CLOSURE SCENARIOS**

Delivery requirements, post-closure pot storage requirements, and re-registration requirements vary depending on the type of area closure and the amount of notice given. The following is a summary of closure scenarios, subsequent pot-storage options, delivery requirements, and re-

registration requirements contained in 5 AAC 35.030, 5 AAC 35.031, 5 AAC 35.052, 5 AAC 35.527, and 5 AAC 35.556.

**Partial closure of the Chignik District (i.e., closure of a bay or section) with 6 or more hours notice of the closure given.**

- Vessel operators may be required to deliver all crabs from the section within 24 hours of the closure. Any changes to the delivery requirement would be provided in a news release at the time of the closure announcement.
- Vessel operators may store pots in waters deeper than 25 fathoms for 72 hours in the closed waters of the section.
- Vessel operators may place, or simultaneously have, baited gear in the open waters of the same section before delivery provided the 24 hour delivery deadline is met.

**Partial closure of the Chignik District (i.e., closure of a bay or section) with less than 6 hours notice of the closure given.**

This scenario is highly unlikely. Should this type of closure occur, the landing, pot storage, and re-registration requirements would be provided in a news release.

**Closure of the entire Chignik District with 6 or more hours notice of the closure given.**

- Vessel operators are required to deliver all crabs within 24 hours of the closure.
- Vessel operators may store pots with bait and bait containers removed and doors secured open in waters deeper than 25 fathoms for up to 72 hours following the closure.
- Gear may be stored with bait and bait containers removed and doors secured open in waters shallower than 25 fathoms for 7 days after the closure.

**Closure of the entire Chignik District with less than 6 hours notice of the closure given.**

- Vessel operators are required to deliver within 24 hours.
- After the closure, vessel operators may not place gear in or remove gear from storage until they have completed their delivery of crabs.
- Baited gear may be stored in waters deeper than 25 fathoms for 72 hours following the closure.
- Vessel operators are required to immediately return to the fishing grounds after their delivery to ‘rail dump’ any baited gear left on the grounds. Pots may then be stored in waters shallower than 25 fathoms for up to 7 days.

**DELIVERIES OUTSIDE THE DISTRICT**

Catcher vessel and tender operators wishing to deliver to the Kodiak District are required to contact the ADF&G office in Kodiak (Appendix B) or department representatives in Sand Point before leaving the Chignik District. Vessels delivering outside the district must provide the estimated number of crabs onboard the vessel at the time of departure, location of port and processing facility, and estimated time of arrival. Additional requirements exist for catcher-processors and vessels mechanically disabled. Vessels legitimately delayed due to circumstances of weather will be addressed on a case by case basis. The specific regulation is 5 AAC 35.031 TANNER CRAB LANDING REQUIREMENTS and is on pages 121-122 of the crab regulations.

- **This delivery requirement will be waived for vessels delivering to Sand Point from the Chignik District.**

## **REGISTRATION, CFEC PERMITS, TENDERS, AND TANK INSPECTIONS**

Vessel operators must have a 2006 permit card for Area L Tanner crab and a current 2006 commercial vessel license. Permits and vessel licenses can be obtained from the Commercial Fisheries Entry Commission (CFEC) in Juneau. Vessel operators must register with the ADF&G prior to fishing. A vessel fishing in the Semidi Island Overlap Section may not be simultaneously registered to fish in other sections of the Kodiak or Chignik Districts.

Tender vessels must register with ADF&G before beginning tendering operations. Tender vessels may not have a pot-hauling block or other crab fishing gear (e.g. pots) onboard anytime during the season, nor may they be used to harvest Tanner crab. Vessels participating in the Tanner crab fishery **cannot** transport crab for other fishing vessels.

Prior to the season opening, tank inspections are required for fishing vessels with a circulating sea water system to confirm that no crabs are onboard the vessel. Circulating sea water systems include on-deck containers with water circulated by pumps, hoses, or other means. Gear will also be inspected at the time of tank inspection to ensure it is in compliance with all regulations. Tanks will be inspected beginning at noon on January 14. Arrangements will be made to accommodate vessel inspections in Chignik and Sand Point. Upon successful completion of the tank inspection and gear inspection process, a valid 2006 shellfish registration will be issued to the vessel. A copy of this registration must remain onboard the vessel while fishing. This registration becomes invalid 24 hours after the closure of the fishery. Vessels must invalidate their registration before participating in other fisheries if the Tanner fishery remains open.

### **SIZE LIMIT**

The legal minimum size of Tanner crabs that can be retained in the Chignik District and Semidi Island Overlap Section is 5.5 inches (140 millimeters; Appendix A) carapace width (CW). Only legal-size male crabs can be retained; all other crabs incidentally captured must be immediately returned to the water unharmed. This includes king crab, as they cannot be legally taken in a commercial Tanner crab fishery for subsistence purposes.

## **VOLUNTEER CATCH REPORTING**

ADF&G will manage the Chignik District commercial Tanner crab fishery from inseason catch reports provided by fishers. Operators will be asked during the registration process which method they will use to submit daily reports. Inseason reporting will allow for real-time fishery decisions and the ability to consider changes in effort, fleet behavior, and weather. ADF&G will make every effort to allow sufficient time for fishers to configure gear for storage or to place gear onboard before a closure; however, the potential exists for a short advance notice closure.

All validly registered vessels are encouraged to participate in the reporting process and will be issued a 2006 reporting code and worksheet during tag sales and/or tank inspection. Reports will be taken over marine VHF channel 10, single sideband (SSB) 4125 kHz, telephone, satellite dispatch system and e-mail. The ADF&G office uses Matrix<sup>1</sup> dispatch services; the Kodiak office number is 7894.

The daily report will contain confidential codes for the section in which the vessel is fishing, statistical area, number of pot lifts, and number of crabs retained for each 10-hour fishing period.

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<sup>1</sup>Use of trade names does not constitute an endorsement from ADF&G.

Reports will initially be taken at 6:30 PM daily and may be transmitted via SSB, marine telex, e-mail, satellite dispatch, and satellite or cell phone. After most of the inside waters have closed, the department will change the reporting schedule to 9:00 AM.

ADF&G will update the fleet on SSB 4125 kHz with the fishery status each morning at 8:30 AM. Any closure announcement or change in the reporting schedule will be made on this frequency. Current fishery status will also be available on the ADF&G recorded information phone at 486-4559. Messages on the recorded information phone will be updated daily after the 8:30 AM updates. Updates, changes to the reporting schedule and closure announcements will be distributed via e-mail, FAX, and passed along to all participating processing facilities.

## SEMIDI ISLAND OVERLAP SECTION

- Vessels wishing to fish in the Semidi Island Overlap Section must register with ADF&G.
- Vessels registered for the Semidi Island Overlap Section may not fish outside the Semidi Island Overlap Section, unless they invalidate their Semidi Island Overlap Section registration through ADF&G.
- **Vessels registered for the Semidi Island Overlap Section have a mandatory reporting requirement.** The vessel operator must either provide daily reports via radio, phone, satellite dispatch system or e-mail of the vessel's catch, catch locations, and effort, or maintain logbooks that include the vessel's catch, catch locations and effort to be turned into ADF&G upon return to port.
- **The Semidi Island Overlap Section of the Kodiak District has a limit of no more than 70 aggregate pots** that may be operated from a validly registered Tanner crab vessel. Vessel operators may use their 30 Chignik or Kodiak District pots and tags. The additional 40 pots must have the unique Semidi Island Overlap Section tags attached, and cannot be used in the Chignik or Kodiak Districts. Semidi Island Overlap Section tags may be purchased from ADF&G in Kodiak after December 12, 2005. Participants from areas outside the cities of Kodiak, Sand Point, or Chignik can purchase tags via U.S. Mail until December 31. No tags will be mailed after this date. Tags will be sold by department representatives in Sand Point and Chignik after January 10<sup>th</sup>.
- Landing requirements for the Semidi Island Overlap Section.
  - Vessels fishing in the Chignik or Kodiak Districts switching to the Semidi Island Overlap Section will not be required to deliver before changing registrations; however, vessels will be required to give an accurate estimate of pounds onboard prior to registering for the Semidi Island Overlap Section.
  - Vessels fishing in the Semidi Island Overlap Section switching to the Chignik District will not be required to deliver before changing registrations; however, vessels will be required to give an accurate estimate of pounds onboard prior to registering for the Chignik District.
  - If the Semidi Island Overlap Section is closed, vessels fishing in the section may be required to deliver before registering for another area and will be required to give an accurate estimate of pounds onboard prior to registering for the Chignik District.
  - Vessels wishing to fish in the Semidi Island Overlap Section after the Chignik District closes may be required to deliver before registering for the Semidi Island Overlap Section and will be required to give an accurate estimate of pounds onboard prior to registering for the Semidi Island Overlap Section.

## **FISHERY MANAGEMENT PLAN**

ADF&G may manage bays and offshore areas separately, closing one portion of the district while allowing continued harvest in other locations. The department will manage in a manner that keeps the commercial fishery from significantly exceeding the number of animals available for harvest as estimated by the survey within given bays or areas.

Given the distribution of legal animals estimated by the 2005 survey, partial closures are likely to occur after very little fishing time (possibly within the first full day of fishing). These types of closures will be used to curtail excessive removals of legal-sized animals or to keep the fishery from working on low numbers of animals within bays or other areas.

Fishery performance as measured by catch per unit effort (CPUE) of legal male crabs, undersized male crabs, and female crabs will be closely monitored. As the stocks within these management sections are still rebuilding, closures may occur before the total GHF is achieved if CPUE indicates the number of legal sized animals has been substantially depleted or if excessive handling of sublegal and female crabs is occurring.

Details of the tank inspection process, updates on inseason reporting, and other fishery related information will be forthcoming in ADF&G news releases.

### **REFERENCE CITED**

Urban, D., D. Pengilly, D. Jackson, and I. Vining. 1999. A Tanner crab harvest strategy for Kodiak, Chignik, and the South Peninsula Districts. A Report to the Board of Fisheries. Alaska Department of Fish and Game, Division of Commercial Fisheries, Westward Region, Regional Information Report 4K99-21, Kodiak.



## **TABLE**

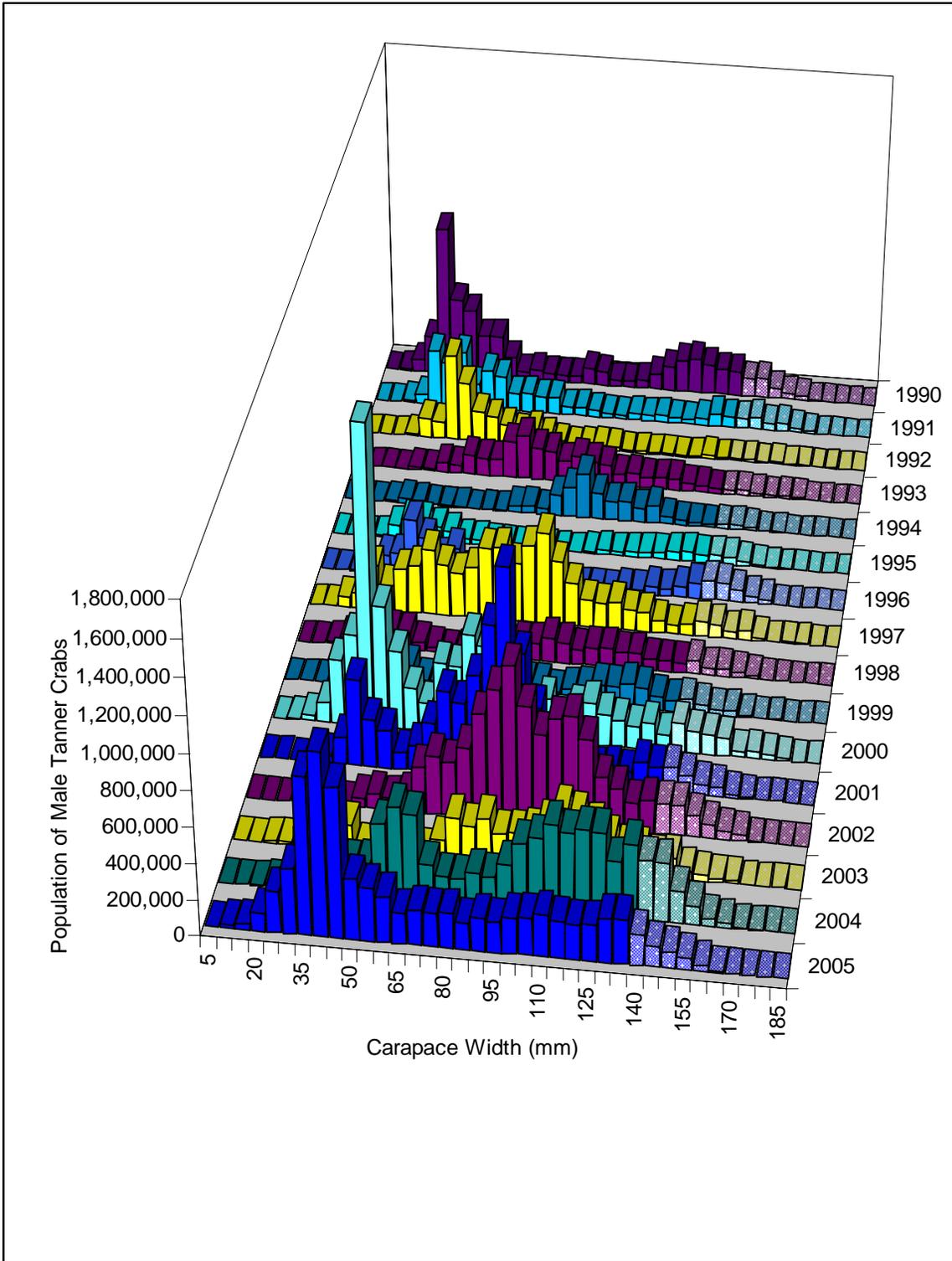
**Table 1.**— Commercial catch and effort for the Tanner crab *Chionoecetes bairdi* fishery for the Chignik Management District, 1968-2004.

Year/Season	Number				Pots Lifted	CPUE	Average Weight	Price Per Pound
	Vessels	Landings	Crabs	Pounds				
1968	NA	NA	NA	21,100	NA	NA	NA	NA
1969	NA	NA	NA	38,100	NA	NA	NA	NA
1969/70	NA	NA	NA	2,800	NA	NA	NA	NA
1970/71	NA	NA	NA	152,300	NA	NA	NA	NA
1971/72	CONFIDENTIAL HARVEST							
1972/73	15	56	297,363	747,788	8,080	51	2.5	\$0.16
1973/74	25	115	1,585,560	4,054,873	28,083	57	2.6	\$0.20
1974/75	25	91	1,438,508	3,649,444	22,675	63	2.5	\$0.14
1975/76	35	288	2,724,509	11,201,900	52,381	52	2.5	\$0.19
1976/77	21	141	2,098,226	5,672,919	40,604	52	2.7	\$0.33
1977/78	32	140	1,725,042	4,693,830	38,414	45	2.8	\$0.42
1978/79	39	126	926,253	2,536,105	28,378	33	2.7	\$0.55
1979/80	42	155	2,340,004	3,517,920	54,627	25	2.6	\$0.54
1980/81	24	112	1,534,847	3,653,723	44,022	35	2.4	\$0.64
1981/82	45	174	1,343,500	3,240,476	47,830	28	2.4	\$1.21
1982/83	48	136	1,432,029	3,497,370	60,210	24	2.4	\$1.12
1983/84	17	41	269,724	659,043	14,665	18	2.4	\$1.09
1984/85	15	27	162,448	375,476	15,708	10	2.3	\$1.42
1985/86	6	12	85,697	188,162	7,435	12	2.2	\$1.97
1986/87	10	20	89,329	195,060	7,052	13	2.2	\$2.28
1987/88	6	11	87,148	183,111	6,544	13	2.1	\$2.33
1988/89	6	34	142,470	323,120	9,845	15	2.3	\$3.05
1989/90 to 2003/04	NO COMMERCIAL FISHERY							
2004/05	23	58	183,033	407,743	7,456	25	2.2	\$1.65
5 year average <sup>a</sup>	10	27	117,535	259,439	7,666	16	2.2	\$2.26

NA = not available

<sup>a</sup> 5 year average is the last 5 years of fishery data (1985/86-1988/89 and 2004/05)

**APPENDIX A. ESTIMATED POPULATION OF MALE TANNER  
CRABS BY CARAPACE WIDTH IN THE CHIGNIK DISTRICT,  
1990-2005**



**Appendix A1.**—Estimated population of male Tanner crabs by carapace width in the Chignik District, 1990-2005.

(Note- The lightly colored portions of each year represents the estimated population that is legal sized.)

**APPENDIX B. LISTING OF CONTACT PERSONS, BY AGENCY  
AND LOCATION**

**Appendix B1.**—Listing of contact persons, by agency and location.

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**Alaska Department of Fish and Game**

**web site:** <http://www.cf.adfg.state.ak.us/region4/>

**Kodiak office**

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Mail address:	211 Mission Road	physical address:	211 Mission Road	Phone:	(907) 486-1840
	Kodiak, Alaska 99615		2 <sup>nd</sup> floor, Kodiak	FAX :	(907) 486-1824

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Wayne Donaldson	Westward Region Shellfish/ Groundfish Biologist	wayne_donaldson@fishgame.state.ak.us
Nick Sagalkin	Kodiak, Chignik, Alaska Peninsula Area Shellfish/ Groundfish Biologist	nick_sagalkin@fishgame.state.ak.us
Lynn Mattes	Kodiak, Chignik, Alaska Peninsula Asst. Area Shellfish/ Groundfish Biologist	lynn_mattes@fishgame.state.ak.us
Kally Spalinger	Kodiak, Chignik, Alaska Peninsula Shellfish/Groundfish Biologist	kally_spalinger@fishgame.state.ak.us

**Dutch Harbor office**

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Mail address:	P. O. Box 920587	physical address:	F.T.S. building, 2 <sup>nd</sup> floor	Phone:	(907) 581-1239
	Dutch Harbor, Alaska 99692		Airport Beach Road, Dutch Harbor	FAX:	(907) 581-1572

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Forrest Bowers	Bering Sea/Aleutian Islands Area Biologist	forrest_bowers@fishgame.state.ak.us
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**Division of Fish and Wildlife Protection**

**web site:** <http://www.dps.state.ak.us/fwp/>

**Kodiak office**

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Mail address:	2921 A Mill Bay Road	physical address:	2921 A Mill Bay Road	Phone:	(907) 486-4761
	Kodiak, Alaska 99615		Kodiak, AK	FAX:	(907) 486-5480

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Sargent Lonnie Gonzales	Post Sergeant	lonnie_gonzales@dps.state.ak.us
Sven Skille	Trooper	sven_skille@dps.state.ak.us

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**Commercial Fisheries Entry Commission**

**web site:** <http://www.cfec.state.ak.us/>

**Juneau office**

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Mail address:	8800 Glacier Highway	physical address:	8800 Glacier Highway	Phone:	(907) 789-6160
	Juneau, Alaska 99615		Juneau, Alaska	FAX :	(907) 789-6160

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Susan Haymes	CFEC staff	susan_haymes@cfec.state.ak.us
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