# ALASKA DEPARTMENT OF FISH AND GAME DIVISION OF COMMERCIAL FISHERIES NEWS RELEASE 



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## 2016 Norton Sound Winter \& Summer Commercial Crab Season Summaries

Norton Sound Section (Q3) consists of all waters in Statistical Area Q north of the latitude of Cape Romanzof ( $61^{\circ} 49^{\prime} \mathrm{N}$ latitude), east of the International Dateline, and south of latitude $66^{\circ} \mathrm{N}$ (Figure 1).

Starting in 2016, under the new king crab management plan, both winter and summer commercial fisheries are now combined under one red king crab harvest strategy. The department estimated the legal male biomass (LMB) to be 4.3 million pounds for 2016 based on the model's results from spring of 2016 that included the latest data from the 2015 summer fishery and the 2014 trawl survey (Appendix 1). By Board of Fisheries (BOF) regulation, a harvest rate of up to $15 \%$ is allowed when the LMB exceeds 3.0 million pounds. Additionally, the North Pacific Fishery Management Council had set an allowable biological catch (ABC) of 577,000 pounds for 2016, which is to include the summer and winter commercial harvests, estimated winter and summer subsistence harvests, and estimated incidental mortality of non-target crab discards. Based on the recommended ABC, the department applied a harvest rate of $12 \%$ for the commercial red king crab fishery yielding a total GHL of 517,200 pounds. The CDQ allocation (7.5\%) was 38,790 pounds and the open access fishery allocation was 478,410 pounds. Of the open access portion, the winter commercial fishery is allowed $8 \%$ ( 38,273 pounds) and the summer commercial fishery is allowed $92 \%$ ( 440,137 pounds).

## Winter Fishery

The winter commercial harvest traditionally occurred within 15 miles of Nome, with an area closed to commercial fishing that is roughly 1 mile west to 3 miles east of town and extending 3 miles offshore (Figure 2). But in recent years, with the increase in exvessel crab price, harvest has occurred in eastern and southern Norton Sound. The harvest is generally divided between local residents who buy crab directly from the fishermen, the Norton Sound Seafood Plant (NSSP) in Nome, and other non-local markets such as Anchorage.

Some regulations adopted by the BOF in 2015 affecting the winter red king crab commercial fishery went into effect this season. The fishery is now opened by emergency order on or after January 15 and closes on April 30 or earlier if necessary. Another adopted regulation setting pot limits and
requiring pot tags will not be implemented until the 2017 season. In 2017, commercial permit holders will be limited to 20 pots each and each pot must have a current-year pot tag attached.

## HARVEST SUMMARY

## Open Access Fishery

The winter commercial season opened February 15, 2016, and 30 fishermen registered. One landbased processor (NSSP in Nome) and one catcher-processor registered to buy crab, and seven fishermen applied for a catcher-seller permit to sell crab dockside (but only one made sales). Based on fish tickets submitted, the first landing was made February 16 and last landing was made on March 24. From beginning to end of the season, the harvest rate was consistently high, with landings every day (Figure 3). A total of 284 landings was made, with an overall CPUE of $5 \mathrm{crab} / \mathrm{pot}$, and average weight of $2.67 \mathrm{lbs} / \mathrm{crab}$ (Table 1). Price of crab averaged $\$ 6.99 / \mathrm{lb}$, the highest ever for the Norton Sound king crab fishery, and total exvessel value was $\$ 304,117$, the third highest for the winter fishery (Table 2). A total of $44,779 \mathrm{lbs}(16,767 \mathrm{crab})$ were harvested, with roughly a third harvested in February and two-thirds in March. Total amount of crab harvested was $45 \%$ compared to last year, and number of landings was $43 \%$ in comparison. Since the season started later this year, when the ice was more stable, number of pots reported lost was much less compared to last year: 38 pots lost out of 494 pots fishing this year ( $8 \%$ ), compared to 104 out of 606 pots last year ( $17 \%$ ). Nome crabbers reported fishing from 24 miles west to 12 miles east of Nome, excluding the area closed to commercial fishing. Similar to last year, the majority of fishermen (18) and harvest ( $91 \%$ ) came from the Nome area, with the remaining fishermen and harvest coming from Elim, Golovin, Stebbins, and White Mountain areas. Similar to the last two years, the ice was unstable in most of eastern \& southern Norton Sound and, except for Elim ( $7 \%$ of harvest), harvest from these areas accounted for $1 \%$ or less of the total harvest in 2016.

## CDQ Fishery

The Norton Sound Economic Development Corporation (NSEDC) and Yukon Delta Fisheries Development Association (YDFDA) divide the CDQ allocation. Only fishermen designated by these two CDQ groups are allowed to participate in this portion of the king crab fishery. Fishermen are required to have a CDQ king crab permit from the Commercial Fisheries Entry Commission and register with ADF\&G before they make their first delivery. Fishermen operate under authority of the CDQ group and each CDQ group decides how their crab quota is harvested. In 2016, as in the previous nine years, YDFDA transferred their quota to NSEDC.

Similar to the past eleven years except for 2013, NSEDC fishermen harvested all, or nearly all, of the entire allocation. In 2016, for the first time, the CDQ fishery was prosecuted during the winter season, opening on March 23, the day before the open-access fishery closed, to allow registered CDQ permit-holders to continue fishing. From then until the last (winter) landing was made on April 21, the 22 crabbers that fished (out of 26 that registered) harvested 35,207 pounds, or $91 \%$ of the CDQ quota. The remaining $9 \%$ ( 3,583 pounds) was harvested during the summer fishery (Table 3).

In 2016, combining results from winter and summer, there was a total of 189 CDQ landings and 2,253 pots lifts. Average price paid to fishermen was $\$ 7.50 / \mathrm{lb}$ in winter and $\$ 6.50 / \mathrm{lb}$ in summer, for a combined exvessel value of $\$ 278,976$ for the CDQ fishery. This was the fifteenth year a CDQ harvest occurred since the CDQ fishery was implemented in 1998.

## SUMMER FISHERY

## HARVEST SUMMARY

## Open Access Fishery

The 2016 summer open access commercial crab fishery was opened by emergency order at 12:00 noon, June 27 in the Norton Sound Section, with a GHL of 440,137 pounds of crab. Two companies, NSSP and Aquatech, were registered to buy crab (though Aquatech ended up not purchasing crab), and three fishermen registered to sell crab dockside as catcher-seller (only two made sales). NSSP operated a seafood processing plant in Nome and two tenders in eastern Norton Sound. Crab were sold to NSSP and to local residents.

The first open access deliveries were made on June 29 and final deliveries were made July 21, the day the fishery was closed by emergency order at 6:00 AM, for a season length of 25 days, one day less than in 2015. This year as in past years, the season start was based on when the crab processors were ready to purchase crab. Once the open access season was under way, NSSP purchased crab continuously with no reports of poor crab meat fill.

For the 2016 season, as in 2015, the harvest rate was excellent from the start and, with only one major storm at the end, continued to be superb throughout the four week season (Figure 4), making it the shortest season since the Norton Sound registration area became super-exclusive in 1994, which effectively made it a small boat fishery. The daily CPUE never dropped below 10 crab per pot and went as high as 33 crab per pot (Table 4). By the third week of July, the projected trend line showed that the open access quota would be reached in a few days. Even though the weather forecast turned negative and no fishing occurred for two days, there was no expected drop in harvest rate once fishing resumed. With an upcoming weather window of fishing opportunity, a closure was announced for July 20 at 6:00 AM, which gave the fishermen 36 hours' notice. The original deliver-by time was extended from 12 hours to 18 hours due to rough surf conditions in parts of Norton Sound. On the morning of July 20, with half the fleet unable to get to their pots due to adverse marine conditions, the closure was extended for 24 hours, to July 21 at 6:00 AM. Crabbers were allowed 12 hours beyond the closure time to deliver, or at least be waiting to deliver at the Nome plant or at a tender. Because of safety concerns, the usual requirement to have all pot doors open and bait containers removed by the closure date and time was waived. Fishermen could get to their pots once they felt safe to do so, but all crab retrieved after the closure date and time had to be returned to the water.

The open access harvest from fish ticket reports was 137,774 red king crab or 416,576 pounds ( $95 \%$ of the open-access quota; Table 4). Of this total, 1,357 pounds were reported as deadloss, and 1,388 pounds reported as personal use. Out of the 38 vessels and 42 permit holders that registered to fish, 36 vessels and 37 permit holders made 227 landings (Table 5). The average weight for commercially caught crab was 3.0 pounds, slightly heavier than last year. Number of pots registered was 1,520 , and there were 7,891 pot pulls. CPUE was 18 crab per pot, compared to 17 crab in 2015. In 2016, the total harvest rate tracked similarly to 2015 (Figure 4). The average price paid (including CDQ catch) was $\$ 6.50 / \mathrm{lb}$, the highest amount ever paid for the summer fishery (Table 6). The exvessel value of the fishery (including $\$ 0.023$ million from summer CDQ) was $\$ 2.713$ million, the highest fishery value ever for Norton Sound without adjusting for inflation (Figure 5).

## CDQ Fishery

As in the previous five years, the CDQ fishery opened concurrently with the open access fishery in 2016. No additional summer crabber registered to fish the CDQ quota. Out of the 26 winter crabbers that had registered for CDQ, only one made any landings in the summer, for a total harvest of 3,583 pounds.

## Harvest Areas and Sampling

Fish ticket reports document eight statistical areas were fished in the summer open access and CDQ fisheries (Table 7). The top harvest (37\%) and most effort (33\%) came from statistical area 636401, south of Golovnin Bay in eastern Norton Sound, followed by statistical areas 646401 and 656401, south of Nome, which yielded $30 \%$ and $23 \%$, respectively, of the total harvest. These three statistical areas are all directly south of the closed boundary line (Figure 6), and, similar to last year, effort was concentrated in this main area. The remaining five statistical areas all had $5 \%$ or less of the total harvest (Appendix 2). The catch from statistical areas east of $164^{\circ} \mathrm{W}$ longitude made up $44 \%$ of the harvest (Figure 7).
Carapace length (CL) measurements and shell age were collected from 1,567 commercially-caught crab during the summer open access and CDQ fisheries. Since the summer of 2002, NSEDC has operated a seafood processing plant in Nome. In 2016, $100 \%$ of sampling data was collected from this plant, either as crabbers offloaded their catch or from holding tanks. Carapace age was classified as new ( $2-12$ months old) or old (over 13 months old). Male new-shell crab made up $92 \%$ of the total legal crab sampled, and old-shell crab made up $8 \%$, similar to last year. Recruit crab are new-shell legal crab < 116 -mm CL. Postrecruit crab are legal new-shell male crab $\geq 116-\mathrm{mm}$ CL and all legal old-shell males. Recruit crab made up $36 \%$ of the legal crab sampled and postrecruit crab made up $64 \%$, similar to the three years prior to last year (Table 5). Overall mean carapace length of legal male crab was $118-\mathrm{mm}$.

Table 1.-Daily catch based on fish ticket data for the winter commercial king crab harvest, Norton Sound, February 15-March 24, 2016.

| Date | Landings | Number of crab | Lbs of crab harvested | Number of pots pulled | Average weight (lbs) | Daily CPUE |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 02/16 | 3 | 59 | 179 | 8 | 2.66 | 2 |
| 02/17 | 1 | 69 | 185 | 6 | 2.67 | 2 |
| 02/18 | 4 | 328 | 870 | 40 | 2.63 | 5 |
| 02/19 | 4 | 190 | 499 | 20 | 2.50 | 5 |
| 02/20 | 7 | 467 | 1,334 | 42 | 2.64 | 5 |
| 02/21 | 6 | 504 | 1,399 | 9 | 2.46 | 4 |
| 02/22 | 4 | 395 | 1,034 | 64 | 2.56 | 2 |
| 02/23 | 6 | 521 | 1,372 | 62 | 2.42 | 7 |
| 02/24 | 6 | 341 | 912 | 67 | 2.50 | 3 |
| 02/25 | 9 | 600 | 1,611 | 121 | 2.26 | 10 |
| 02/26 | 6 | 313 | 789 | 64 | 2.52 | 5 |
| 02/27 | 8 | 368 | 1,006 | 79 | 2.57 | 8 |
| 02/28 | 7 | 419 | 1,149 | 108 | 2.21 | 8 |
| 02/29 | 5 | 206 | 551 | 61 | 2.67 | 3 |
| 03/01 | 9 | 558 | 1,505 | 107 | 2.70 | 5 |
| 03/02 | 6 | 589 | 1,472 | 99 | 2.50 | 6 |
| 03/03 | 11 | 1,031 | 2,726 | 131 | 2.35 | 7 |
| 03/04 | 9 | 391 | 1,032 | 87 | 2.64 | 4 |
| 03/05 | 4 | 271 | 751 | 40 | 2.77 | 7 |
| 03/06 | 13 | 872 | 2,337 | 252 | 2.68 | 3 |
| 03/07 | 7 | 264 | 708 | 75 | 2.36 | 5 |
| 03/08 | 8 | 540 | 1,442 | 84 | 2.67 | 6 |
| 03/09 | 7 | 273 | 703 | 114 | 2.58 | 2 |
| 03/10 | 8 | 401 | 1,074 | 82 | 2.68 | 5 |
| 03/11 | 8 | 299 | 794 | 90 | 2.66 | 3 |
| 03/12 | 4 | 251 | 677 | 54 | 2.70 | 5 |
| 03/13 | 5 | 218 | 587 | 58 | 2.69 | 4 |
| 03/14 | 8 | 231 | 647 | 70 | 2.80 | 3 |
| 03/15 | 8 | 631 | 1,649 | 100 | 2.61 | 6 |
| 03/16 | 13 | 515 | 1,386 | 144 | 2.69 | 4 |
| 03/17 | 11 | 475 | 1,233 | 113 | 2.60 | 4 |
| 03/18 | 8 | 320 | 874 | 72 | 2.73 | 4 |
| 03/19 | 5 | 167 | 478 | 43 | 2.86 | 4 |
| 03/20 | 10 | 685 | 1,748 | 124 | 2.55 | 6 |
| 03/21 | 14 | 1,094 | 2,966 | 165 | 2.71 | 7 |
| 03/22 | 14 | 668 | 1,842 | 80 | 2.76 | 8 |
| 03/23 | 10 | 701 | 1,804 | 125 | 2.57 | 6 |
| 03/24 | 8 | 542 | 1,454 | 142 | 2.68 | 4 |
| Total | 284 | 16,767 | 44,779 | 3,202 | 2.67 | 5 |

Note: The fishery closed by emergency order on $3 / 24 / 16$ and the last delivery was made on 3/24/16.

Table 2.-Historical winter commercial red king crab fishery catch statistics and economic performance, Norton Sound Section, Eastern Bering Sea, 1978-2016.

| Year | Commercial harvest (lbs) ${ }^{\text {a }}$ | Permits fished | Landings | $\begin{array}{r} \text { Pot } \\ \text { pulls } \end{array}$ | CPUE | Average weight (lb) | Exvessel price/lb | Fishery value (\$) | Season dates ${ }^{\text {b }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1978 | 25,025 | 37 | ${ }^{\text {c }}$ | c |  | ${ }^{\text {c }}$ | 0.90 | 28,800 | 1/01-4/30 |
| 1979 | 575 | 1 | c | c | c | c | c | c | 1/01-4/30 |
| 1980 | 57 | 1 | c | c | c | c | c | c | 1/01-4/30 |
| 1981 | 0 | 0 | c | c | c | c | c | c | 1/01-4/30 |
| 1982 | 44 | 1 | c | c | c | c | c | c | 1/01-4/30 |
| 1983 | 1,427 | 5 | c | c | c | c | c | c | 1/01-4/30 |
| 1984 | 2,226 | 8 | c | c | c | c | ${ }^{\text {c }}$ | ${ }^{\text {c }}$ | 1/01-4/30 |
| $1985{ }^{\text {c }}$ | 3,042 | 10 | 106 | 103 | 11 | 2.6 | $5.56{ }^{\text {d }}$ | 6,494 ${ }^{\text {d }}$ | 1/01-4/30 |
| $1986{ }^{\text {c }}$ | 5,015 | 6 | 64 | c | c | 2.3 | $5.40{ }^{\text {d }}$ | 11,707 ${ }^{\text {d }}$ | 11/15-5/15 |
| 1987 | 2,590 | 7 | 51 | 55 | 19 | 2.5 | 2.60 | 6,734 | 11/15-5/15 |
| 1988 | 980 | 10 | 56 | 148 | 3 | 2.3 | 2.33 | 2,283 | 11/15-5/15 |
| $1989{ }^{\text {c }}$ | 1,045 | 5 | 59 | c | , | c | $5.40{ }^{\text {d }}$ | 2,210 ${ }^{\text {d }}$ | 11/15-5/15 |
| $1990{ }^{\text {c }}$ | 9,792 | 12 | 199 | 257 | 14 | 2.8 | $5.33{ }^{\text {d }}$ | 19,327 ${ }^{\text {d }}$ | 11/15-5/15 |
| $1991{ }^{\text {c }}$ | 10,064 | 11 | 187 | 609 | 6 | 2.7 | $5.00{ }^{\text {d }}$ | $19,000{ }^{\text {d }}$ | 11/15-5/15 |
| 1992 | 21,177 | 13 | 287 | 1,823 | 4 | 2.8 | 3.60 | 76,283 | 11/15-5/15 |
| $1993{ }^{\text {c }}$ | 4,926 | 8 | 66 |  | c | 2.8 | $2.84{ }^{\text {c }}$ | 14,000 ${ }^{\text {d }}$ | 11/15-5/15 |
| 1994 | 17,214 | 25 | 183 | 1,018 | 6 | 3.0 | 3.01 | 51,709 | 11/15-5/15 |
| 1995 | 21,813 | 42 | 345 | 3,302 | 2 | 2.9 | 3.09 | 66,190 | 11/15-5/15 |
| 1996 | 5,064 | 9 | 68 | 292 | 7 | 2.5 | 3.16 | 14,838 | 11/15-5/15 |
| 1997 | e | 2 | e | e |  | , | 2.81 | e | 11/15-5/15 |
| 1998 | 2,349 | 5 | 31 | 749 | 1 | 2.4 | 3.57 | 8,168 | 11/15-5/15 |
| 1999 | 7,041 | 5 | 61 | 425 | 6 | 2.6 | 3.69 | 24,777 | 11/15-5/15 |
| 2000 | 7,894 | 10 | 90 | 1,230 | 2 | 2.6 | 3.72 | 29,300 | 11/15-5/15 |
| 2001 | 2,943 | 3 | 21 | 534 | 2 | 2.7 | 3.60 | 10,582 | 11/15-5/15 |
| 2002 | 6,860 | 11 | 68 | 1,247 | 2 | 2.7 | 3.53 | 22,682 | 11/15-5/15 |
| 2003 | 16,827 | 13 | 128 | 1,960 | 3 | 2.5 | 3.52 | 57,577 | 11/15-5/15 |
| $2004{ }^{\text {f }}$ | 1,293 | 2 | 16 | 397 | 1 | 2.5 | 3.95 | 5,110 | 11/15-5/15 |
| 2005 | 5,619 | 4 | 51 | 1,076 | 2 | 2.7 | 4.52 | 25,054 | 11/15-5/15 |
| 2006 |  | 1 | e | e | e | e | 3.98 | e | 11/15-5/15 |
| 2007 | 8,023 | 8 | 106 | 926 | 4 | 2.4 | 3.06 | 24,464 | 11/15-5/15 |

-continued-

Table 2.-Page 2 of 2.

|  | Commercial <br> harvest $(\mathrm{lbs})^{a}$ | Permits <br> fished | Landings | Pot <br> pulls | CPUE | Average <br> weight $(\mathrm{lb})$ | Exvessel <br> price/lb | Fishery <br> value $(\$)$ | Season <br> (ates ${ }^{\text {b }}$ |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 2008 | 14,676 | 9 | 129 | 1,008 | 6 | 2.5 | 3.03 | 43,664 | $11 / 15-5 / 15$ |
| 2009 | 12,348 | 7 | 130 | 1,282 | 4 | 2.5 | 3.01 | 32,649 | $11 / 15-5 / 15$ |
| 2010 | 12,028 | 10 | 184 | 1,848 | 3 | 2.5 | 3.54 | 41,265 | $11 / 15-5 / 15$ |
| 2011 | 8,669 | 5 | 129 | 1,747 | 2 | 2.6 | 3.59 | 30,776 | $11 / 15-5 / 15$ |
| 2012 | 24,142 | 35 | 319 | 1,668 | 5 | 2.6 | 6.47 | 150,569 | $11 / 15-5 / 15$ |
| 2013 | 62,179 | 26 | 495 | 6,093 | 4 | 2.8 | 6.73 | 402,256 | $11 / 15-5 / 15$ |
| 2014 | 34,587 | 21 | 323 | 4,037 | 4 | 2.3 | 6.94 | 234,291 | $11 / 15-5 / 15$ |
| 2015 | 98,750 | 44 | 664 | 7,314 | 6 | 2.4 | 6.57 | 617,434 | $11 / 15-4 / 30$ |
| $2016^{\mathrm{g}}$ | 44,779 | 25 | 284 | 3,202 | 5 | 2.7 | 6.99 | 304,117 | $2 / 15-3 / 24$ |

${ }^{\text {a }}$ Deadloss included in total.
${ }^{\mathrm{b}}$ From 1986 to 2014, season dates were from November 15 of the previous year to May 15 of the current year. In 2015, season dates were from November 15 of 2014 to April 30.
${ }^{c}$ Prior to the 1985 season, no crab fish ticket data were entered into the fish ticket database. Some data for years 1985-86, 1989-91, and 1993 were missing from the fish ticket database, and some information were found in the text of the annual management report for the respective year.
${ }^{\mathrm{d}}$ Value given is price per crab. Fishery value was derived by multiplying price per crab by number of crab harvested.
${ }^{\mathrm{e}}$ Information is confidential because less than 3 permit holders delivered.
${ }^{\mathrm{f}}$ Confidentiality was waived by the fishermen.
${ }^{\mathrm{g}}$ Does not include CDQ catch information and values.

Table 3.-Daily catch based on fish ticket data for the CDQ commercial king crab harvest, Norton Sound Section, Eastern Bering Sea, March 23-April 21 and June 27-July 9, 2016.

| Date | Landings | Number crab | Crab harvested (lbs) | Cumulative total (lbs) | Number pots pulled | Average weight (lbs) | CPUE |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 03/25 | 6 | 360 | 959 | 959 | 63 | 2.7 | 6 |
| 03/26 | 10 | 626 | 1,724 | 2,683 | 83 | 2.8 | 8 |
| 03/27 | 1 | 20 | 58 | 2,741 | 7 | 2.9 | 3 |
| 03/28 | 10 | 805 | 2,192 | 4,933 | 96 | 2.7 | 8 |
| 03/30 | 8 | 722 | 1,981 | 6,914 | 100 | 2.7 | 7 |
| 03/31 | 4 | 186 | 517 | 7,431 | 34 | 2.8 | 5 |
| 04/01 | 3 | 48 | 137 | 7,568 | 13 | 2.9 | 4 |
| 04/02 | 10 | 629 | 1,709 | 9,277 | 93 | 2.7 | 7 |
| 04/03 | 10 | 668 | 1,813 | 11,090 | 99 | 2.7 | 7 |
| 04/04 | 7 | 763 | 2,081 | 13,171 | 107 | 2.7 | 7 |
| 04/05 | 6 | 542 | 1,456 | 14,627 | 63 | 2.7 | 9 |
| 04/06 | 7 | 374 | 1,010 | 15,637 | 69 | 2.7 | 5 |
| 04/07 | 9 | 504 | 1,376 | 17,013 | 84 | 2.7 | 6 |
| 04/08 | 9 | 732 | 1,979 | 18,992 | 111 | 2.7 | 7 |
| 04/09 | 10 | 780 | 2,050 | 21,042 | 141 | 2.6 | 6 |
| 04/10 | 6 | 385 | 1,048 | 22,090 | 64 | 2.7 | 6 |
| 04/11 | 6 | 380 | 1,016 | 23,106 | 74 | 2.7 | 5 |
| 04/12 | 6 | 390 | 1,013 | 24,119 | 73 | 2.6 | 5 |
| 04/13 | 9 | 459 | 1,250 | 25,369 | 104 | 2.7 | 4 |
| 04/14 | 7 | 707 | 1,870 | 27,239 | 92 | 2.6 | 8 |
| 04/15 | 6 | 326 | 883 | 28,122 | 92 | 2.7 | 4 |
| 04/16 | 7 | 411 | 1,076 | 29,198 | 81 | 2.6 | 5 |
| 04/17 | 8 | 505 | 1,342 | 30,540 | 138 | 2.7 | 4 |
| 04/18 | 5 | 309 | 881 | 31,421 | 61 | 2.9 | 5 |
| 04/19 | 8 | 791 | 2,161 | 33,582 | 126 | 2.7 | 6 |
| 04/20 | 3 | 294 | 789 | 34,371 | 52 | 2.7 | 6 |
| 04/21 | 6 | 311 | 836 | 35,207 | 81 | 2.7 | 4 |
| 07/07 | 1 | 888 | 2,589 | 37,796 | 39 | 2.9 | 23 |
| 07/09 | 1 | 335 | 994 | 38,790 | 13 | 3.0 | 26 |
| Total | 189 | 14,250 | 38,790 | 38,790 | 2,253 | 2.7 | 6 |

Note: For the winter, the CDQ fishery closed on $4 / 21 / 16$, and the last delivery was made $4 / 21 / 16$. For the summer, the CDQ fishery closed on $7 / 9 / 16$, and the last delivery was made on $7 / 9 / 16$.

Table 4.-Daily catch based on fish ticket data for the open-access summer commercial king crab harvest, Norton Sound Section, Eastern Bering Sea, June 27-July 21, 2016.

|  |  | Number <br> of Crabs | Lbs of Crabs <br> Harvested | Cumulative <br> Lbs | No. of Pots <br> Pulled | Average <br> Weight (lbs) | Daily <br> CPUE |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $6 / 29$ | 12 | 5,534 | 16,834 | 16,834 | 429 | 3.04 | 13 |
| $6 / 30$ | 5 | 4,485 | 13,465 | 30,299 | 170 | 3.00 | 26 |
| $7 / 1$ | 7 | 5,338 | 15,394 | 45,693 | 261 | 2.88 | 20 |
| $7 / 2$ | 4 | 3,445 | 10,528 | 56,221 | 105 | 3.06 | 33 |
| $7 / 3$ | 11 | 9,163 | 27,506 | 83,727 | 398 | 3.00 | 23 |
| $7 / 4$ | 9 | 7,223 | 21,908 | 105,635 | 344 | 3.03 | 21 |
| $7 / 5$ | 15 | 9,139 | 26,924 | 132,559 | 506 | 2.95 | 18 |
| $7 / 6$ | 6 | 2,400 | 7,361 | 139,920 | 205 | 3.07 | 12 |
| $7 / 7$ | 12 | 9,441 | 28,558 | 168,478 | 385 | 3.02 | 25 |
| $7 / 8$ | 7 | 5,173 | 15,350 | 183,828 | 267 | 2.97 | 19 |
| $7 / 9$ | 16 | 11,638 | 35,843 | 219,671 | 606 | 3.08 | 19 |
| $7 / 10$ | 7 | 5,716 | 16,773 | 236,444 | 253 | 2.93 | 23 |
| $7 / 11$ | 1 | 566 | 1,679 | 238,123 | 40 | 2.97 | 14 |
| $7 / 12$ | 22 | 14,607 | 44,800 | 282,923 | 799 | 3.07 | 18 |
| $7 / 13$ | 6 | 2,579 | 7,800 | 290,723 | 213 | 3.02 | 12 |
| $7 / 14$ | 10 | 5,655 | 17,513 | 308,236 | 338 | 3.10 | 17 |
| $7 / 15$ | 3 | 2,749 | 8,327 | 316,563 | 140 | 3.03 | 20 |
| $7 / 16$ | 23 | 12,285 | 37,222 | 353,785 | 833 | 3.03 | 15 |
| $7 / 19$ | 16 | 10,013 | 30,128 | 383,913 | 530 | 3.01 | 19 |
| $7 / 20$ | 7 | 2,997 | 9,101 | 393,014 | 232 | 3.04 | 13 |
| $7 / 21$ | 21 | 7,628 | 23,562 | 416,576 | 785 | 3.09 | 10 |
| Totals | 220 | 137,774 | 416,576 | 416,576 | 6,292 | 3.02 | 22 |

Note: The fishery closed by emergency order on 7/21 at 6:00 AM, and last delivery was made on 7/21.

Table 5.-Historical summer commercial red king crab annual harvest, Norton Sound Section, Eastern Bering Sea, 1977-2016.


2016 Norton Sound Summer Crab Season Summary

Table 5.-Page 2 of 2.

| Year | Number vessels | Number permits | Number landings | Number $\qquad$ <br> crab | $\underline{\text { Harvest (lbs) }}$ aopenaccess $\quad \mathrm{CDQ}^{\text {b }}$ |  | Number pots |  | CPUE | Percent old shell | Percent postrecruits | Average weight (lbs) | $\begin{gathered} \text { Avg legal } \\ \text { mean } \\ \text { length (mm) } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | (open access only) |  |  |  |  |  | registered | pulls |  |  |  |  |  |
| 2006 | 28 | 29 | 224 | 139,131 | 419,191 | 32,557 | 1,120 | 8,695 | 17 | 27 | 75 | 3.0 | 119 |
| 2007 | 30 | 30 | 234 | 101,672 | 289,264 | 23,611 | 1,200 | 9,118 | 12 | 12 | 55 | 2.8 | 117 |
| 2008 | 23 | 23 | 230 | 132,295 | 364,235 | 30,900 | 920 | 8,721 | 16 | 23 | 55 | 2.8 | 115 |
| 2009 | 22 | 23 | 333 | 133,498 | 369,462 | 28,125 | 920 | 11,934 | 12 | 18 | 57 | 2.8 | 116 |
| 2010 | 23 | 25 | 256 | 139,014 | 387,304 | 30,000 | 1,040 | 9,698 | 16 | 14 | 51 | 2.8 | 116 |
| 2011 | 24 | 25 | 173 | 132,030 | 373,990 | 26,850 | 1,040 | 6,808 | 21 | 14 | 57 | 2.8 | 116 |
| 2012 | 29 | 29 | 289 | 149,604 | 441,080 | 34,910 | 1,200 | 10,041 | 16 | 9 | 67 | 2.9 | 118 |
| 2013 | 33 | 33 | 435 | 124,485 | 373,278 | 18,585 | 1,420 | 15,058 | 9 | 8 | 68 | 3.0 | 120 |
| 2014 | 33 | 35 | 281 | 120,385 | 360,860 | 28,148 | 1,560 | 10,127 | 13 | 22 | 65 | 3.0 | 120 |
| 2015 | 36 | 36 | 231 | 133,531 | 371,520 | 29,595 | 1,480 | 8,356 | 17 | 22 | 42 | 2.8 | 115 |
| 2016 | 36 | 37 | 227 | 137,774 | 416,576 | 38,790 ${ }^{\text {e }}$ | 1,520 | 7,891 | 18 | 8 | 64 | 3.0 | 118 |

${ }^{\text {a }}$ Deadloss included in total.

- ${ }^{\text {b }}$ No CDQ fishery harvest prior to the 2000 season.
${ }^{\text {c }}$ Data not available.
${ }^{d}$ No summer commercial fishery.
e 35,207 pounds were harvested during the winter CDQ fishery.

Table 6.-Historical summer commercial red king crab fishery economic performance, Norton Sound Section, Eastern Bering Sea, 1977-2016.


Table 6.-Page 2 of 2.

| Year | Guideline harvest level (lbs) ${ }^{\text {b }}$ | $\begin{gathered} \text { Legal male } \\ \text { pop est (lbs) }{ }^{\text {b }} \end{gathered}$ | Commercial harvest (lbs) ${ }^{\text {a,b }}$ |  | Exvessel price/lb | $\begin{gathered} \text { Fishery } \\ \text { value } \\ \text { (millions \$) } \\ \hline \end{gathered}$ | Season length |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | dates |  |
|  |  |  | open access | CDQ |  |  | days | open access | CDQ |
| 2007 | 0.32 | 4.0 | 0.29 | 0.02 |  | 2.84 | 0.750 | 52 | 7/01-8/17 | 6/15-6/28 |
| 2008 | 0.41 | 4.4 | 0.36 | 0.03 | 3.20 | 1.231 | 73 | 6/23-8/18 | 8/17-9/03 |
| 2009 | 0.38 | 4.6 | 0.37 | 0.03 | 3.17 | 1.225 | 98 | $6 / 15-9 / 20{ }^{\text {k }}$ | $6 / 15-7 / 28{ }^{\text {k }}$ |
| 2010 | 0.40 | 5.1 | 0.39 | 0.03 | 3.73 | 1.528 | 58 | 7/01-8/24 | 6/28-7/16 |
| 2011 | 0.36 | 5.2 | 0.37 | 0.03 | 5.23 | 2.016 | 33 | 6/28-7/30 | 6/28-7/08 |
| 2012 | 0.47 | 4.8 | 0.44 | 0.03 | 5.41 | 2.556 | 72 | 6/29-8/11 | 6/29-9/08 |
| 2013 | 0.50 | 4.3 | 0.37 | 0.02 | 5.63 | 2.165 | 74 | 7/03-9/14 | $7 / 03-9 / 14^{\text {i }}$ |
| 2014 | 0.38 | 4.1 | 0.36 | 0.03 | 5.12 | 1.960 | 52 | 6/25-8/02 | 6/25-8/15 |
| 2015 | 0.39 | 4.4 | 0.37 | 0.03 | 5.40 | 2.130 | 26 | 6/29-7/24 | 6/29-7/24 ${ }^{1}$ |
| $2016{ }^{\text {m }}$ | 0.52 | 4.3 | 0.42 | 0.04 | 6.50 | 2.713 | 25 | 6/27-7/21 | 3/23-4/21; 6/27-7/9 |

${ }^{\text {a }}$ Deadloss included in total.
${ }^{\mathrm{b}}$ Millions of pounds.
${ }^{\text {c }}$ Information not available.
${ }^{\text {d }}$ No CDQ was allocated until 1998, and no harvest occurred until 2000.
${ }^{\mathrm{e}}$ Fishing actually began 8/12.
${ }^{\mathrm{f}}$ Fishing actually began $7 / 8$.
${ }^{\mathrm{g}}$ Fishing began $7 / 9$ due to fishermen's strike.
${ }^{\text {h }}$ First delivery was made 7/10.
${ }^{i}$ First delivery was made 7/16.
${ }^{\mathrm{j}}$ The season was extended 24 hours due to bad weather.
${ }^{k}$ NSSP stopped buying crab from 6/29 to 7/6 due to poor meatfill.
${ }^{1}$ Final delivery was made 7/17.
${ }^{m}$ GHL includes $8 \%$ that was allocated to the winter commercial fishery; the fishery value does not include $\$ 0.26$ million from winter CDQ fishery; season days do not include 3/23-4/21 for winter CDQ fishery.

Table 7.-Red king crab CDQ and open-access summer commercial harvest based on fish ticket reports by statistical area for Norton Sound Section, Eastern Bering Sea, June 27July 21, 2016.

| - |  |  |  |  |  |  |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Statistical <br> area | Number <br> crab | Crab <br> harvested <br> (lbs.) | Number <br> pots <br> pulled | CPUE | Average <br> weight <br> (lbs.) | Percent of <br> pots pulled in <br> stat area ${ }^{\text {a }}$ |
| 626401 | 6,469 | 19,488 | 969 | 7 | 3.01 | 12.3 |
| 636330 | 3,404 | 10,122 | 211 | 16 | 2.97 | Percent of <br> harvest in <br> stat area ${ }^{\text {a }}$ |
| 636401 | 51,171 | 154,502 | 2,581 | 20 | 3.02 | 4.6 |
| 646401 | 42,082 | 126,906 | 2,083 | 20 | 3.02 | 32.7 |
| 656330 | 104 | 307 | 30 | 3 | 2.95 | 26.4 |
| 656401 | 31,899 | 97,414 | 1,708 | 19 | 3.05 | 0.4 |
| 666401 | 2,068 | 6,030 | 100 | 21 | 2.92 | 21.6 |
| 666402 | 1,800 | 5,391 | 209 | 9 | 3.00 | 1.3 |
| Total | 138,997 | 420,159 | 7,891 | 18 | 3.02 | 2.2 |

[^0]

Figure 1.-King crab fishing districts and sections of Statistical Area Q.


Figure 2.-Closed waters area in effect for the Norton Sound winter commercial crab fishery.


Figure 3.-Current and historical catch performance for the Norton Sound winter commercial crab fishery, 2011-2016.


Figure 4.-Current and historical catch performance for the Norton Sound summer commercial crab fishery, 2011-2016.


Notes: Pricing information was not available for 1988-1990. No summer commercial fishery occurred in 1991.
Figure 5.-Norton Sound crab exvessel value and fishery price per pound, 1977-2016.


Note: Line drawn around the coastline delineates the 3-mile state waters zone.
Figure 6.-Statistical areas and closed-waters area in effect for the Norton Sound summer commercial crab fishery.


Note: No summer commercial fishery occurred in 1991.
Figure 7.-The percent of crab harvested during the Norton Sound summer commercial red king crab fishery east of 164 degrees west longitude, 1987-2016.

Appendix 1.-Standardized results from population assessment surveys for red king crab in Norton Sound, 1976-2014.


Note: Blank cells are because the numbers were not calculated.
${ }^{\text {a }}$ Population estimates are valid for the date of the survey (i.e., either before or after the summer commercial fishery). All historical abundances were updated based on newly recovered data.
${ }^{b}$ Pre-2 males were defined as $76-89 \mathrm{~mm}$ in carapace length (CL) and pre-1 males were defined as sublegal crab $\geq 90 \mathrm{~mm}$ CL.
c Legal male red king crab were defined as $\geq 121 \mathrm{~mm}$ ( 4.75 inches) in carapace width (CW) for the pot surveys and all ADF\&G trawl surveys, and $\geq 104$ mm CL for all of the NMFS trawl surveys except the 1979 survey which defined legal males as $\geq 100 \mathrm{~mm}$ CL.
${ }^{\text {d }}$ Legal male biomass is estimated by multiplying the population abundance estimate of legal males by an average weight of 3.0 pounds.
e The 1980 pot survey estimate has been revised from the original estimate of 13.4 million pounds which was thought inaccurate due to an under-reporting of recovered tagged crab.

Appendix 2.-Historical commercial harvest by statistical areas of red king crab from Norton Sound Section, Eastern Bering Sea, 1977-2016 (catch in pounds).

| Statistical |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Area | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 |
| 616331 | 7,893 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 616401 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 626331 | 40,020 | 0 | 0 | 0 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 626401 | 31,572 | 0 | 0 | 4,830 | 399 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 626402 | 38,995 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 636330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 636401 | 0 | 0 | 0 | 12,398 | 61,823 | 32,246 | 5,880 | 41 | 891 | 0 | 0 | 0 | 22,030 |
| 636402 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 646301 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 646330 | 0 | 0 | 0 | 0 | 4,716 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5,212 |
| 646401 | 0 | 0 | 155,972 | 0 | 1,319 | 17,532 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 646402 | 80,969 | 0 | 0 | 0 | 0 | 748 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 656300 | 0 | 0 | 161,699 | 0 | 15,174 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 656330 | 0 | 0 | 323,518 | 72,735 | 395,662 | 3,983 | 24,246 | 83,479 | 7,632 | 0 | 79,006 | 36,129 | 1,757 |
| 656401 | 0 | 0 | 138,011 | 121,147 | 253,387 | 60,480 | 11,422 | 183,119 | 246,200 | 0 | 194,408 | 165,644 | 100,956 |
| 656402 | 306,302 | 90,187 | 288,869 | 918 | 3,098 | 2,832 | 0 | 0 | 132,363 | 0 | 0 | 0 | 0 |
| 666230 | 0 | 55,490 | 0 | 0 | 77 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 666300 | 0 | 162,795 | 60,816 | 84,874 | 9,167 | 95 | 0 | 4,534 | 0 | 0 | 0 | 0 | 0 |
| 666330 | 0 | 353,016 | 505,050 | 367,446 | 141,513 | 8,990 | 1,192 | 0 | 389 | 70,615 | 2,963 | 13,020 | 1,275 |
| 666401 | 0 | 179,212 | 486,947 | 205,400 | 381,510 | 79,580 | 325,045 | 116,254 | 5,341 | 408,848 | 50,744 | 21,895 | 115,257 |
| 666402 | 12,036 | 515,778 | 534,938 | 183,581 | 0 | 17,585 | 0 | 0 | 32,992 | 0 | 0 | 0 | 0 |
| 666431 | 0 | 0 | 146,029 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 676300 | 0 | 13,238 | 0 | 126,231 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 676330 | 0 | 51,304 | 81,798 | 6,762 | 18,734 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 676400 | 0 | 667,130 | 33,856 | 274 | 92,026 | 1,315 | 247 | 0 | 32 | 0 | 0 | 0 | 0 |
| 676430 | 0 | 3,811 | 12,309 | 0 | 373 | 3,513 | 0 | 0 | 1,171 | 0 | 0 | 0 | 0 |
| 676501 | 0 | 0 | 0 | 0 | 36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 686330 | 0 | 0 | 1,860 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 686431 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Totals | 517,787 | 2,091,961 | 2,931,672 | 1,186,596 | 1,379,014 | 228,921 | 368,032 | 387,427 | 427,011 | 479,463 | 327,121 | 236,688 | 246,487 |

Appendix 2.-Page 2 of 4.

| Statistical |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Area | 1990 | 1992 | 1993 | 1994 | 1995 | $1996{ }^{\text {a }}$ | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 |
| 616331 | 0 | 0 | 0 | 48 | 0 | 0 | 0 | 0 | 633 | 4,557 | 0 | 3,506 | 646 |
| 616401 | 0 | 0 | 0 | 0 | 35 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 626331 | 0 | 0 | 0 | 0 | 0 | 61 | 0 | 0 | 0 | 0 | 0 | 2,455 | 0 |
| 626401 | 0 | 0 | 0 | 0 | 18,971 | 45,045 | 18,066 | 8,065 | 508 | 4,689 | 61,620 | 53,722 | 15,899 |
| 626402 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,352 |
| 636330 | 0 | 0 | 0 | 0 | 0 | 4,560 | 3,838 | 2,449 | 0 | 0 | 2,253 | 0 | 0 |
| 636401 | 0 | 1,159 | 1,373 | 8,087 | 24,329 | 70,677 | 59,206 | 10,771 | 14,201 | 126,994 | 91,343 | 50,906 | 83,949 |
| 636402 | 0 | 0 | 0 | 1,754 | 3,466 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 646301 | 0 | 0 | 0 | 0 | 4,628 | 13,888 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 646330 | 0 | 0 | 0 | 0 | 1,493 | 2,894 | 314 | 0 | 3,021 | 0 | 1,868 | 1,955 | 0 |
| 646401 | 0 | 0 | 1,963 | 37,222 | 105,045 | 22,834 | 1,052 | 3,194 | 221 | 0 | 4,287 | 0 | 3,952 |
| 646402 | 0 | 0 | 730 | 143,511 | 66,821 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 656300 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| 656330 | 0 | 4,814 | 265 | 0 | 19,745 | 15,446 | 4,661 | 4,078 | 1,300 | 0 | 20,869 | 12,374 | 21,176 |
| 656401 | 171 | 53,119 | 105,341 | 29,566 | 32,289 | 9,985 | 4,035 | 1,127 | 2,739 | 94,813 | 55,158 | 63,038 | 40,566 |
| 656402 | 0 | 0 | 193,079 | 106,053 | 44,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,441 |
| 666230 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 666300 | 0 | 0 | 0 | 0 | 0 | 25,519 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 666330 | 27,185 | 4,305 | 31,758 | 0 | 730 | 0 | 0 | 0 | 0 | 5,839 | 7,030 | 1,332 | 1,296 |
| 666401 | 162,263 | 10,632 | 746 | 396 | 0 | 3,001 | 1,816 | 0 | 930 | 60,762 | 43,771 | 35,970 | 83,998 |
| 666402 | 0 | 0 | 535 | 1,221 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30,070 | 12,873 |
| 666431 | 0 | 0 | 0 | 0 | 1,124 | 0 | 0 | 0 | 0 | 0 | 0 | 4,274 | 45 |
| 676300 | 0 | 0 | 0 | 0 | 0 | 546 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 676330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 676400 | 3,212 | 0 | 0 | 0 | 0 | 9,775 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 676430 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 676501 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 686330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 686431 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Totals | 192,831 | 74,029 | 335,790 | 327,858 | 322,676 | 224,231 | 92,988 | 29,684 | 23,553 | 297,654 | 288,199 | 259,602 | 267,207 |

-continued-

Appendix 2.-Page 3 of 4.

| Statistical |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Area | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| 616331 |  |  | 2,357 |  | 5,658 | 888 |  |  |  |  | 4,923 | 3,410 |
| 616401 |  |  |  | 231 | 416 | 6,170 |  |  |  | 7,729 | 4,692 | 1,929 |
| 626331 |  |  | 1,415 | 27,018 | 3,235 | 3,047 |  | 2,489 |  | 686 |  |  |
| 626401 | 23,113 | 94,130 | 118,202 | 61,704 | 96,327 | 103,043 | 52,054 | 85,271 | 115,524 | 36,802 | 69,936 | 103,881 |
| 626402 |  |  |  |  |  |  |  |  |  |  |  |  |
| 636330 |  | 126 | 26,680 | 10,253 | 2,350 | 5,026 | 2,584 |  | 1,454 | 12,035 | 7,565 | 2,680 |
| 636401 | 166,489 | 227,204 | 224,531 | 123,092 | 197,948 | 96,279 | 182,040 | 146,973 | 148,183 | 34,027 | 78,572 | 137,285 |
| 636402 |  |  |  |  |  |  |  |  |  |  |  |  |
| 646301 |  |  |  |  |  |  |  |  |  |  |  |  |
| 646330 | 2,226 | 4,097 | 2,629 | 5,290 | 1,505 | 933 | 1,205 |  | 1,204 | 4,195 | 5,390 | 1,812 |
| 646401 | 1,964 | 149 | 1,660 |  | 18,728 | 46,264 | 77,437 | 83,099 | 98,811 | 59,737 | 36,409 | 58,929 |
| 646402 |  |  |  |  |  |  |  |  |  | 5,271 |  |  |
| 656300 | 932 |  | 284 | 1,909 |  |  |  |  |  |  |  |  |
| 656330 | 46,288 | 47,411 | 17,752 | 4,911 |  | 10,617 | 17,660 | 1,546 | 8,168 | 8,515 |  | 4,828 |
| 656401 | 21,579 | 9,405 | 28,434 | 70,065 | 68,968 | 107,557 | 82,747 | 77,149 | 85,920 | 147,569 | 122,631 | 69,355 |
| 656402 |  | 380 | 807 | 2,254 |  |  |  |  |  | 37,743 |  |  |
| 666230 |  |  | 1,721 |  |  |  |  |  |  |  |  |  |
| 666300 |  |  | 18,245 |  |  |  |  |  |  |  |  |  |
| 666330 | 12,359 | 142 | 5,041 | 511 |  | 1,514 |  | 2,042 | 1,000 |  |  |  |
| 666401 | 42,452 | 727 | 600 | 2,498 |  | 10,021 |  |  | 15,726 | 33,469 | 38,099 | 9,308 |
| 666402 | 23,344 | 16,025 | 1,050 | 2,959 |  | 6,228 | 1,577 | 2,271 |  | 1,419 | 18,968 | 7,699 |
| 666431 |  |  |  |  |  |  |  |  |  | 2,669 | 1,825 |  |
| 676300 |  |  |  |  |  |  |  |  |  |  |  |  |
| 676330 |  |  |  |  |  |  |  |  |  |  |  |  |
| 676400 |  |  |  | 180 |  |  |  |  |  |  |  |  |
| 676430 |  |  |  |  |  |  |  |  |  |  |  |  |
| 676501 |  | 1,008 |  |  |  |  |  |  |  |  |  |  |
| 686330 |  |  |  |  |  |  |  |  |  |  |  |  |
| 686431 |  |  | 340 |  |  |  |  |  |  |  |  |  |
| Totals | 340,746 | 400,804 | 451,748 | 312,875 | 395,135 | 397,587 | 417,304 | 400,840 | 475,990 | 391,863 | 389,008 | 401,115 |

2016 Norton Sound Summer Crab Season Summary

Appendix 2.-Page 4 of 4.

| Statistical <br> Area | 2016 | Totals |
| :---: | ---: | ---: |
| 616331 |  | 34,518 |
| 616401 |  | 21,202 |
| 626331 |  | 80,448 |
| 626401 | 19,488 | $1,242,861$ |
| 626402 |  | 40,347 |
| 636330 | 10,122 | 93,975 |
| 636401 | 154,502 | $2,594,150$ |
| 636402 |  | 5,220 |
| 646301 |  | 18,516 |
| 646330 |  | 51,959 |
| 646401 | 126,906 | 964,974 |
| 646402 |  | 294,200 |
| 656300 |  | 180,012 |
| 656330 | 307 | $1,302,867$ |
| 656401 | 97,414 | $2,961,798$ |
| 656402 |  | $1,214,562$ |
| 666230 |  | 57,288 |
| 666300 |  | 366,045 |
| 666330 |  | $1,567,553$ |
| 666401 | 6,030 | $2,947,493$ |
| 666402 | 5,391 | $1,428,539$ |
| 666431 |  | 155,966 |
| 676300 |  | 140,015 |
| 676330 |  | 158,598 |
| 676400 |  | 808,047 |
| 676430 |  | 21,177 |
| 676501 |  | 1,044 |
| 686330 |  | 1,860 |
| 686431 |  | 340 |
| Totals | 420,159 | $18,755,574$ |
| $0 t 50$ |  |  |

Note: No summer commercial fishery occurred in 1991.
${ }^{\text {a }}$ Does not include approximately $2,490 \mathrm{lbs}$ not reported on fish tickets.


[^0]:    ${ }^{\text {a }}$ Percentage rounded to nearest tenth except total.

