## 15 Overharvest and Underharvest of IFQs and TACs

### 15.1 TACs and Harvests: 1991 to 1997

Table 15-1 compares the sum of commercial and retained sablefish harvests in each management area with the total allowable catch (TAC) for each year from 1991 through 1997. It shows the difference, in pounds, between the harvest and TAC, and shows the percent of the TAC that was harvested.

The 1991 to 1994 estimated harvests come from a computerized file that contains fish ticket records for catcher vessels and records derived from NMFS's Weekly Production Reports (WPRs) for catcher-processors. ${ }^{1}$ Harvest data for 1995 through 1997 comes from NMFS-RAM catch records. Again, both commercial and retained catch have been included in the harvest totals; therefore, harvest totals are slightly different than those shown in Tables 14-1 and 14-2. ${ }^{2}$

The TACs and harvests in Table 15-1 do not include the portion of the TAC allocated to trawl operations. Also excluded are the 1995 to 1997 TACs and harvests devoted to the sablefish CDQ fishery in the Bering Sea and Aleutian Islands.

Table 15-1 indicates that estimated harvests in the 1995 to 1997 IFQ fisheries fell below the TACs in all sablefish management areas. The estimated shortfall ranged from about $0.8 \%$ in Southeast in 1997 to $41.0 \%$ in 1997 in the Bering Sea.

Prior to implementation of the IFQ program in 1995, "overages," or catches that exceeded the TAC, were common in the Southeast, West Yakutat, and Central Gulf areas. In other areas, large underharvests sometimes occurred, particularly when sablefish fisheries were closed after halibut bycatch limits were reached.

[^0]Table 15-1. Comparison of Sablefish TACs and Harvest by Management Area, 1991 to 1997

| Area | Year | Total <br> Allowable Catch (TAC) | $\begin{array}{r} \text { Total } \\ \text { Area } \\ \text { Harvest } \end{array}$ | Difference TAC (-) Harvest | $\begin{array}{r} \text { Percent } \\ \text { of TAC } \\ \text { Harvested } \\ \hline \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Southeast | 1991 | 10,367,226 | 10,848,012 | -480,786 | 104.6 |
|  | 1992 | 10,451,001 | 10,627,495 | -176,494 | 101.7 |
|  | 1993 | 11,372,532 | 12,643,296 | -1,270,764 | 111.2 |
|  | 1994 | 14,953,937 | 14,042,432 | 911,505 | 93.9 |
|  | 1995 | 12,985,212 | 12,007,125 | 978,087 | 92.5 |
|  | 1996 | 10,436,188 | 9,823,345 | 612,843 | 94.1 |
|  | 1997 | 8,042,381 | 7,980,959 | 61,422 | 99.2 |
| W. Yakutat | 1991 | 8,482,275 | 10,246,116 | -1,763,841 | 120.8 |
|  | 1992 | 7,833,015 | 9,944,545 | -2,111,530 | 127.0 |
|  | 1993 | 8,021,510 | 9,065,405 | -1,043,895 | 113.0 |
|  | 1994 | 10,157,787 | 11,639,260 | -1,481,473 | 114.6 |
|  | 1995 | 8,586,995 | 7,989,722 | 597,273 | 93.0 |
|  | 1996 | 6,366,885 | 6,096,859 | 270,026 | 95.8 |
|  | 1997 | 5,048,534 | 4,952,665 | 95,869 | 98.1 |
| C. Gulf | 1991 | 18,651,085 | 20,331,346 | -1,680,261 | 109.0 |
|  | 1992 | 16,878,571 | 18,112,446 | -1,233,875 | 107.3 |
|  | 1993 | 16,949,119 | 20,365,049 | -3,415,930 | 120.2 |
|  | 1994 | 19,788,669 | 14,860,366 | 4,928,303 | 75.1 |
|  | 1995 | 15,167,786 | 14,072,591 | 1,095,195 | 92.8 |
|  | 1996 | 12,169,392 | 11,818,815 | 350,577 | 97.1 |
|  | 1997 | 11,305,189 | 10,961,703 | 343,486 | 97.0 |
| W. Gulf | 1991 | 5,158,811 | 3,671,681 | 1,487,130 | 71.2 |
|  | 1992 | 4,409,240 | 5,322,280 | -913,040 | 120.7 |
|  | 1993 | 3,580,303 | 1,540,237 | 2,040,066 | 43.0 |
|  | 1994 | 4,038,864 | 598,492 | 3,440,372 | 14.8 |
|  | 1995 | 4,585,610 | 3,950,818 | 634,792 | 86.2 |
|  | 1996 | 3,880,096 | 3,585,286 | 294,810 | 92.4 |
|  | 1997 | 3,280,445 | 3,045,866 | 234,579 | 92.8 |
| Bering Sea | 1991 | 3,417,161 | 1,878,196 | 1,538,965 | 55.0 |
|  | 1992 | 1,543,234 | 1,249,116 | 294,118 | 80.9 |
|  | 1993 | 1,653,465 | 1,436,788 | 216,677 | 86.9 |
|  | 1994 | 595,247 | 617,692 | -22,445 | 103.8 |
|  | 1995 | 1,410,957 | 998,318 | 412,639 | 70.8 |
|  | 1996 | 970,024 | 703,905 | 266,119 | 72.6 |
|  | 1997 | 970,024 | 572,773 | 397,251 | 59.0 |
| Aleutians | 1991 | 5,291,088 | 4,234,283 | 1,056,805 | 80.0 |
|  | 1992 | 4,960,395 | 3,145,105 | 1,815,290 | 63.4 |
|  | 1993 | 4,299,009 | 4,263,206 | 35,803 | 99.2 |
|  | 1994 | 4,629,702 | 3,069,026 | 1,560,676 | 66.3 |
|  | 1995 | 2,910,098 | 1,917,782 | 992,316 | 65.9 |
|  | 1996 | 1,587,312 | 1,168,273 | 419,039 | 73.6 |
|  | 1997 | 1,587,312 | 1,137,281 | 450,031 | 71.6 |

### 15.2 Total Available IFQs and Actual Harvest by Vessel Category

Table 15-2 compares the sum of sablefish harvests with the available IFQs during the first three years of the IFQ program. The data are broken out by area and vessel category. The data in Table 15-2 for harvest and total available IFQs are somewhat different than in Table 15-1 and other tables in this report.

Each year, NMFS-RAM holds out a portion of the TAC in a special "IFQ reserve" pool to cover QS claims in the administrative appeals process. If a person is awarded additional QS during the year through the administrative appeal process then IFQ is taken from the pounds set aside in the IFQ reserve pool. ${ }^{3}$ Consequently, the "current year IFQs," as shown in Table 15-2, consist of the TAC, minus the IFQ in the reserve pool, plus any IFQs that are taken out of the reserve for awards due to administrative appeals.

The IFQ program rules provide for adjustments to a person's current-year IFQ assignment if they overharvested or underharvested their IFQ in the previous year. Deductions can be made to a person's current-year IFQ if they overharvested their IFQ in the previous year, and if a person underharvests their IFQ in one year, they can carry-over up to $10 \%$ of their unharvested portion to the following year. ${ }^{4}$ The total net carry-over from all QS holders is shown in Table 15-2. The carry-over in 1995 is zero because it was the first year of the IFQ program. The "total available IFQs" in the table is the sum of the "current year IFQs" and the previous year carry-over. The carry-over can be positive or negative.

Note again the harvest data in Table 15-2 consists of both commercial and retained catches, whereas Table 15-1 and tables in Chapter 14 and 16 do not include retained catches. The table also shows the total number of unique persons who recorded landings in each vessel category in the year.

Table 15-2 indicates that from 1995 through 1997 the harvest in most areas and vessel categories was less than the total available IFQ. The percentage of unharvested IFQ was highest in the Aleutian Islands and Bering Sea areas, especially in the smallest vessel category.

In the Western Gulf, Bering Sea, and Aleutian Islands areas, there were sometimes large differences between vessel categories in the percentage of harvested IFQ. For example, in the Aleutian Islands in 1997 the percentage of IFQ harvested in the freezer vessel category was $71.3 \%$, but was $40.3 \%$ in the " 60 foot or less" category. In the Southeast, West Yakutat, and Central Gulf areas, the differences across vessel categories were usually smaller.

[^1]Table 15-2. Available IFQs and IFQs Harvested, By Area and Vessel Category

| Area | Year | Vessel Category | Total Harvest | Number of Unique Harvesters | Current Year IFQs | Previous Year CarryOver | Total Available IFQ | $\begin{array}{r} \text { IFQ } \\ \text { Pounds } \\ \text { Remaining } \\ \hline \end{array}$ | $\begin{array}{r} \text { Percent } \\ \text { IFQ } \\ \text { Harvested } \\ \hline \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Southeast | 1995 | Freezer | 1,075,969 | 27 | 1,150,323 | 0 | 1,150,323 | 74,354 | 93.5 |
|  |  | GT 60 ft . | 2,488,304 | 84 | 2,566,277 | 0 | 2,566,277 | 77,973 | 97.0 |
|  |  | LE 60 ft . | 8,442,852 | 374 | 8,667,856 | 0 | 8,667,856 | 225,004 | 97.4 |
|  |  | AREA TOTAL | 12,007,125 | . | 12,384,456 | 0 | 12,384,456 | 377,331 | 97.0 |
|  | 1996 | Freezer | 909,183 | 26 | 883,885 | 6,594 | 890,479 | -18,704 | 102.1 |
|  |  | GT 60 ft . | 2,029,930 | 84 | 2,021,375 | 31,685 | 2,053,060 | 23,130 | 98.9 |
|  |  | LE 60 ft . | 6,884,232 | 369 | 6,938,340 | 37,342 | 6,975,682 | 91,450 | 98.7 |
|  |  | AREA TOTAL | 9,823,345 |  | 9,843,600 | 75,621 | 9,919,221 | 95,876 | 99.0 |
|  | 1997 | Freezer | 700,575 | 26 | 736,354 | -2,127 | 734,227 | 33,652 | 95.4 |
|  |  | GT 60 ft . | 1,627,363 | 75 | 1,640,842 | 8,958 | 1,649,800 | 22,437 | 98.6 |
|  |  | LE 60 ft . | 5,653,021 | 337 | 5,659,402 | 78,354 | 5,737,756 | 84,735 | 98.5 |
|  |  | AREA TOTAL | 7,980,959 |  | 8,036,598 | 85,185 | 8,121,783 | 140,824 | 98.3 |
| W. Yakutat | 1995 | Freezer | 644,347 | 21 | 663,390 | 0 | 663,390 | 19,043 | 97.1 |
|  |  | GT 60 ft . | 4,913,952 | 99 | 4,985,129 | 0 | 4,985,129 | 71,177 | 98.6 |
|  |  | LE 60 ft . | 2,431,423 | 166 | 2,530,182 | 0 | 2,530,182 | 98,759 | 96.1 |
|  |  | AREA TOTAL | 7,989,722 |  | 8,178,701 | 0 | 8,178,701 | 188,979 | 97.7 |
|  | 1996 | Freezer | 502,331 | 20 | 441,083 | 7,147 | 448,230 | -54,101 | 112.1 |
|  |  | GT 60 ft . | 3,727,287 | 108 | 3,719,219 | 17,582 | 3,736,801 | 9,514 | 99.7 |
|  |  | LE 60 ft . | 1,867,241 | 160 | 1,909,381 | 8,441 | 1,917,822 | 50,581 | 97.4 |
|  |  | AREA TOTAL | 6,096,859 |  | 6,069,683 | 33,170 | 6,102,853 | 5,994 | 99.9 |
|  | 1997 | Freezer | 379,744 | 18 | 410,612 | -6,122 | 404,490 | 24,746 | 93.9 |
|  |  | GT 60 ft . | 3,024,955 | 100 | 3,056,723 | -16,804 | 3,039,919 | 14,964 | 99.5 |
|  |  | LE 60 ft . | 1,547,966 | 150 | 1,572,714 | 5,667 | 1,578,381 | 30,415 | 98.1 |
|  |  | AREA TOTAL | 4,952,665 |  | 5,040,049 | -17,259 | 5,022,790 | 70,125 | 98.6 |
| C. Gulf | 1995 | Freezer | 2,069,616 | 35 | 2,061,530 | 0 | 2,061,530 | -8,086 | 100.4 |
|  |  | GT 60 ft . | 7,002,653 | 158 | 7,215,138 | 0 | 7,215,138 | 212,485 | 97.1 |
|  |  | LE 60 ft . | 5,000,322 | 252 | 5,449,752 | 0 | 5,449,752 | 449,430 | 91.8 |
|  |  | AREA TOTAL | 14,072,591 | . | 14,726,420 | 0 | 14,726,420 | 653,829 | 95.6 |
|  | 1996 | Freezer | 1,688,879 | 33 | 1,727,565 | -31,137 | 1,696,428 | 7,549 | 99.6 |
|  |  | GT 60 ft . | 5,747,776 | 139 | 5,716,528 | 96,990 | 5,813,518 | 65,742 | 98.9 |
|  |  | LE 60 ft . | 4,382,160 | 221 | 4,431,977 | 67,780 | 4,499,757 | 117,597 | 97.4 |
|  |  | AREA TOTAL | 11,818,815 |  | 11,876,070 | 133,633 | 12,009,703 | 190,888 | 98.4 |

(Continued)

Table 15-2. Available IFQs and IFQs Harvested, By Area and Vessel Category

| Area | Year | Vessel Category | Total Harvest | Number of Unique Harvesters | Current <br> Year <br> IFQs | Previous Year CarryOver | Total Available IFQ | $\begin{array}{r} \text { IFQ } \\ \text { Pounds } \\ \text { Remaining } \\ \hline \end{array}$ | $\begin{array}{r} \text { Percent } \\ \text { IFQ } \\ \text { Harvested } \\ \hline \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| C. Gulf (con't) | 1997 | Freezer | 1,490,900 | 28 | 1,633,566 | -10,800 | 1,622,766 | 131,866 | 91.9 |
|  |  | GT 60 ft . | 5,369,615 | 144 | 5,399,569 | 38,272 | 5,437,841 | 68,226 | 98.7 |
|  |  | LE 60 ft . | 4,101,188 | 200 | 4,183,894 | 33,349 | 4,217,243 | 116,055 | 97.2 |
|  |  | AREA TOTAL | 10,961,703 |  | 11,217,029 | 60,821 | 11,277,850 | 316,147 | 97.2 |
| W. Gulf | 1995 | Freezer | 1,596,633 | 24 | 1,646,353 | 0 | 1,646,353 | 49,720 | 97.0 |
|  |  | GT 60 ft . | 1,758,312 | 63 | 1,883,786 | 0 | 1,883,786 | 125,474 | 93.3 |
|  |  | LE 60 ft . | 595,873 | 34 | 794,849 | 0 | 794,849 | 198,976 | 75.0 |
|  |  | AREA TOTAL | 3,950,818 |  | 4,324,988 | 0 | 4,324,988 | 374,170 | 91.3 |
|  | 1996 | Freezer | 1,410,986 | 26 | 1,391,321 | 18,151 | 1,409,472 | -1,514 | 100.1 |
|  |  | GT 60 ft . | 1,582,571 | 62 | 1,576,794 | 23,240 | 1,600,034 | 17,463 | 98.9 |
|  |  | LE 60 ft . | 591,729 | 36 | 693,768 | 26,269 | 720,037 | 128,308 | 82.2 |
|  |  | AREA TOTAL | 3,585,286 |  | 3,661,883 | 67,660 | 3,729,543 | 144,257 | 96.1 |
|  | 1997 | Freezer | 1,155,878 | 23 | 1,240,322 | -11,944 | 1,228,378 | 72,500 | 94.1 |
|  |  | GT 60 ft . | 1,329,640 | 61 | 1,416,337 | -2,185 | 1,414,152 | 84,512 | 94.0 |
|  |  | LE 60 ft . | 560,348 | 43 | 617,946 | 17,623 | 635,569 | 75,221 | 88.2 |
|  |  | AREA TOTAL | 3,045,866 |  | 3,274,605 | 3,494 | 3,278,099 | 232,233 | 92.9 |
| Bering Sea | 1995 | Freezer | 421,926 | 20 | 572,900 | 0 | 572,900 | 150,974 | 73.6 |
|  |  | GT 60 ft . | 471,282 | 39 | 669,245 | 0 | 669,245 | 197,963 | 70.4 |
|  |  | LE 60 ft . | 105,110 | 20 | 273,034 | 0 | 273,034 | 167,924 | 38.5 |
|  |  | AREA TOTAL | 998,318 |  | 1,515,179 | 0 | 1,515,179 | 516,861 | 65.9 |
|  | 1996 | Freezer | 267,032 | 20 | 369,675 | 36,073 | 405,748 | 138,716 | 65.8 |
|  |  | GT 60 ft . | 345,928 | 42 | 429,215 | 32,294 | 461,509 | 115,581 | 75.0 |
|  |  | LE 60 ft . | 90,945 | 15 | 194,042 | 22,876 | 216,918 | 125,973 | 41.9 |
|  |  | AREA TOTAL | 703,905 |  | 992,932 | 91,243 | 1,084,175 | 380,270 | 64.9 |
|  | 1997 | Freezer | 225,001 | 17 | 380,082 | 22,889 | 402,971 | 177,970 | 55.8 |
|  |  | GT 60 ft . | 285,833 | 32 | 405,338 | 25,522 | 430,860 | 145,027 | 66.3 |
|  |  | LE 60 ft . | 61,939 | 12 | 184,727 | 15,665 | 200,392 | 138,453 | 30.9 |
|  |  | AREA TOTAL | 572,773 |  | 970,147 | 64,076 | 1,034,223 | 461,450 | 55.4 |

(Continued)

Table 15-2. Available IFQs and IFQs Harvested, By Area and Vessel Category

| Area | Year | Vessel Category | Total Harvest | Number of Unique Harvesters | Current Year IFQs | Previous Year CarryOver | Total Available $\qquad$ | $\begin{array}{r} \text { IFQ } \\ \text { Pounds } \\ \text { Remaining } \\ \hline \end{array}$ | $\begin{array}{r} \text { Percent } \\ \text { IFQ } \\ \text { Harvested } \\ \hline \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Aleutians | 1995 | Freezer | 1,123,475 | 22 | 1,530,857 | 0 | 1,530,857 | 407,382 | 73.4 |
|  |  | GT 60 ft . | 711,868 | 37 | 1,036,505 | 0 | 1,036,505 | 324,637 | 68.7 |
|  |  | LE 60 ft . | 82,439 | 15 | 224,646 | 0 | 224,646 | 142,207 | 36.7 |
|  |  | AREA TOTAL | 1,917,782 | . | 2,792,008 | 0 | 2,792,008 | 874,226 | 68.7 |
|  | 1996 | Freezer | 611,301 | 20 | 862,978 | 64,254 | 927,232 | 315,931 | 65.9 |
|  |  | GT 60 ft . | 452,032 | 39 | 570,476 | 77,442 | 647,918 | 195,886 | 69.8 |
|  |  | LE 60 ft . | 104,940 | 16 | 134,083 | 19,472 | 153,555 | 48,615 | 68.3 |
|  |  | AREA TOTAL | 1,168,273 |  | 1,567,537 | 161,168 | 1,728,705 | 560,432 | 67.6 |
|  | 1997 | Freezer | 656,438 | 18 | 883,242 | 37,246 | 920,488 | 264,050 | 71.3 |
|  |  | GT 60 ft . | 424,493 | 36 | 570,073 | 41,523 | 611,596 | 187,103 | 69.4 |
|  |  | LE 60 ft . | 56,350 | 13 | 133,992 | 5,821 | 139,813 | 83,463 | 40.3 |
|  |  | AREA TOTAL | 1,137,281 |  | 1,587,307 | 84,590 | 1,671,897 | 534,616 | 68.0 |

### 15.3 Unchanged QS and Unharvested IFQ, 1995 to 1997

During the 1995 to 1997 fishing seasons there were persons who did not transfer, lease, or alter their QS holdings in any way, nor did they fish any portion of their IFQs. Tables 153 a and $15-3 \mathrm{~b}$ provide information on the extent of unchanged and unused QS.

Table 15-3a shows, by area and year, the total amount of QS initially issued in the area. It is compared with the sum of QS holdings that belong to persons who did not alter their holdings during the year. The portion of the "unaltered holdings" is divided into two groups for the year: QS that was used for an IFQ harvest, and QS that was not used for any IFQ harvest. The table also shows the mean amount of QS held by persons in each of the two categories, as well as the IFQ equivalent of the mean QS.

In Tables 15-3a and 15-3b, CDQ catches are not considered for the counts of persons who had sablefish harvest. The Aleutian Islands and Bering Sea are CDQ areas and portions of the TAC in those areas are allocated to CDQs.

The amount and percentage of QS that belongs to persons who have not altered their holdings since the beginning of the program should decline each year. The percentage of QS that was held by persons who had not changed their holdings by the end of 1995 ranged from $75.0 \%$ in the Southeast area to $91.6 \%$ in the Western Gulf. These percentages declined in each year from from 1995 to 1997 in all areas. By the end of 1997, the percentage of QS that was held by persons who had not changed their holdings ranged from $52.6 \%$ in the Central Gulf area to $69.0 \%$ in the Western Gulf.

Some persons did not alter their QS holdings, nor did they fish in a particular year. The average QS holdings of these persons were considerably smaller than the average holdings of persons who did fish, but who also had not altered their holdings. This was true in all areas over the 1995 to 1997 period.

Table 15-3b provides similar information on the number of QS holders. It shows the total number of initial issuees in each area and year and compares them with the number of QS holders who had not altered their holdings by the end of the year. Initial issuees who had not changed their holdings are divided into two groups: the table shows the number and percentage that fished at least some of their IFQ during the year and the number and percentage that did not fish any of their IFQ during the year. The table also shows the mean QS and IFQ equivalent holdings for each group of persons.

The percentage of initial issuees who had not made changes to their QS holdings dropped from 1995 to 1997 in all areas. By the end of 1997, this percentage ranged from $45.6 \%$ in the Southeast area to $69.4 \%$ in the Bering Sea. Although the number of persons who had not altered their QS holdings nor fished their IFQ is relatively high in some areas and years, these persons held relatively small amounts of QS. For example, in West Yakutat, $15.3 \%$ of the initial issuees had not altered their QS holdings by year-end 1997, nor did they fish any of their IFQ in 1997. These person held only 492,119 shares (Table 15-3a), or 0.9\% of the total QS issued in West Yakutat. Their average IFQ in 1997 was 677 pounds.

Table 15-3a Fished and Unfished QS Owned by Initial Issuees Who Had Not Altered Their QS Holdings at Year-end 1995 to 1997.

|  |  | Initial Quota Share | QS Holdings of Persons Who Had Not Altered Their Holdings by Year-end |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Area | Year |  | Total Unaltered QS | $\begin{array}{r} \text { Percent } \\ \text { Initial } \\ \hline \end{array}$ | QS With <br> Some <br> Harvest | Percent Initial | Mean of QS With Some Harvest | $\begin{array}{r} \text { IFQ } \\ \begin{array}{r} \text { Equivalent } \\ \text { of Mean } \end{array} \\ \hline \end{array}$ | $\begin{array}{r} \hline \text { QS With } \\ \text { No } \\ \text { Harvest } \\ \hline \end{array}$ | Percent | $\begin{array}{r} \hline \text { Mean of QS } \\ \text { With No } \\ \text { Harvest } \\ \hline \end{array}$ | $\begin{array}{r} \text { IFQ } \\ \text { Equivalent } \\ \text { of Mean } \\ \hline \end{array}$ |
| Southeast | 1995 | 65,352,762 | 49,000,180 | 75.0 | 47,854,097 | 73.2 | 129,686 | 24,576 | 1,146,083 | 1.8 | 7,590 | 1,438 |
|  | 1996 | 66,213,195 | 40,334,502 | 60.9 | 40,122,116 | 60.6 | 134,638 | 20,234 | 212,386 | 0.3 | 1,985 | 298 |
|  | 1997 | 66,413,185 | 35,273,959 | 53.1 | 28,961,914 | 43.6 | 143,376 | 17,481 | 6,312,045 | 9.5 | 51,738 | 6,308 |
| W. Yakutat | 1995 | 52,597,269 | 44,335,574 | 84.3 | 43,353,101 | 82.4 | 192,680 | 29,961 | 982,473 | 1.9 | 7,616 | 1,184 |
|  | 1996 | 53,043,389 | 37,870,451 | 71.4 | 37,557,040 | 70.8 | 205,230 | 23,649 | 313,411 | 0.6 | 3,407 | 393 |
|  | 1997 | 53,131,783 | 31,077,219 | 58.5 | 30,585,100 | 57.6 | 213,882 | 20,300 | 492,119 | 0.9 | 7,132 | 677 |
| C. Gulf | 1995 | 107,635,310 | 84,983,801 | 79.0 | 83,381,018 | 77.5 | 258,947 | 35,429 | 1,602,783 | 1.5 | 9,484 | 1,298 |
|  | 1996 | 110,178,659 | 71,303,991 | 64.7 | 70,145,490 | 63.7 | 289,857 | 31,469 | 1,158,501 | 1.1 | 7,572 | 822 |
|  | 1997 | 111,070,324 | 58,465,733 | 52.6 | 57,590,538 | 51.9 | 306,333 | 31,258 | 875,195 | 0.8 | 7,480 | 763 |
| W. Gulf | 1995 | 35,196,842 | 32,223,719 | 91.6 | 30,227,218 | 85.9 | 311,621 | 38,292 | 1,996,501 | 5.7 | 21,701 | 2,667 |
|  | 1996 | 35,905,712 | 29,623,562 | 82.5 | 27,296,761 | 76.0 | 317,404 | 32,783 | 2,326,801 | 6.5 | 29,453 | 3,042 |
|  | 1997 | 36,055,489 | 24,877,894 | 69.0 | 24,158,318 | 67.0 | 335,532 | 30,645 | 719,576 | 2.0 | 11,606 | 1,060 |
| Bering Sea | 1995 | 17,598,802 | 14,854,856 | 84.4 | 12,339,898 | 70.1 | 189,845 | 16,345 | 2,514,958 | 14.3 | 44,122 | 3,799 |
|  | 1996 | 18,423,785 | 13,544,621 | 73.5 | 11,945,209 | 64.8 | 205,952 | 11,282 | 1,599,412 | 8.7 | 29,619 | 1,623 |
|  | 1997 | 18,605,154 | 12,670,834 | 68.1 | 10,600,052 | 57.0 | 216,328 | 11,281 | 2,070,782 | 11.1 | 40,604 | 2,117 |
| Aleutians | 1995 | 29,863,329 | 26,072,291 | 87.3 | 24,291,639 | 81.3 | 411,723 | 38,493 | 1,780,652 | 6.0 | 37,886 | 3,542 |
|  | 1996 | 31,103,860 | 25,886,701 | 83.2 | 24,209,309 | 77.8 | 390,473 | 19,679 | 1,677,392 | 5.4 | 38,123 | 1,921 |
|  | 1997 | 31,518,176 | 21,030,025 | 66.7 | 18,205,090 | 57.8 | 364,102 | 18,337 | 2,824,935 | 9.0 | 70,623 | 3,557 |

Table 15-3b Number of Initial QS Recipients Who Had Not Altered Their QS Holdings at Year-end 1995 to 1997: Persons With and Without Harvests

| Area | Year | Total Initial Issuees | Persons Who Had Not Altered Their QS Holdings by Year-end |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Total Persons | Percent Initial | Persons With Some Harvest | Percent Initial | Mean of Q With Some Harvest | $\begin{array}{r} \text { IFQ } \\ \text { Equivalent } \\ \text { of Mean } \end{array}$ | Persons With No Harvest | Percent Initial | Mean of QS With No Harvest | $\begin{array}{r} \text { IFQ } \\ \text { Equivalent } \\ \text { of Mean } \end{array}$ |
| Southeast | 1995 | 707 | 520 | 73.6 | 369 | 52.2 | 129,686 | 24,576 | 151 | 21.4 | 7,590 | 1,438 |
|  | 1996 | 708 | 405 | 57.2 | 298 | 42.1 | 134,638 | 20,234 | 107 | 15.1 | 1,985 | 298 |
|  | 1997 | 710 | 324 | 45.6 | 202 | 28.5 | 143,376 | 17,481 | 122 | 17.2 | 51,738 | 6,308 |
| W. Yakutat | 1995 | 449 | 354 | 78.8 | 225 | 50.1 | 192,680 | 29,961 | 129 | 28.7 | 7,616 | 1,184 |
|  | 1996 | 449 | 275 | 61.2 | 183 | 40.8 | 205,230 | 23,649 | 92 | 20.5 | 3,407 | 393 |
|  | 1997 | 452 | 212 | 46.9 | 143 | 31.6 | 213,882 | 20,300 | 69 | 15.3 | 7,132 | 677 |
| C. Gulf | 1995 | 633 | 491 | 77.6 | 322 | 50.9 | 258,947 | 35,429 | 169 | 26.7 | 9,484 | 1,298 |
|  | 1996 | 637 | 395 | 62.0 | 242 | 38.0 | 289,857 | 31,469 | 153 | 24.0 | 7,572 | 822 |
|  | 1997 | 639 | 305 | 47.7 | 188 | 29.4 | 306,333 | 31,258 | 117 | 18.3 | 7,480 | 763 |
| W. Gulf | 1995 | 226 | 189 | 83.6 | 97 | 42.9 | 311,621 | 38,292 | 92 | 40.7 | 21,701 | 2,667 |
|  | 1996 | 229 | 165 | 72.1 | 86 | 37.6 | 317,404 | 32,783 | 79 | 34.5 | 29,453 | 3,042 |
|  | 1997 | 231 | 134 | 58.0 | 72 | 31.2 | 335,532 | 30,645 | 62 | 26.8 | 11,606 | 1,060 |
| Bering Sea | 1995 | 140 | 122 | 87.1 | 65 | 46.4 | 189,845 | 16,345 | 57 | 40.7 | 44,122 | 3,799 |
|  | 1996 | 143 | 112 | 78.3 | 58 | 40.6 | 205,952 | 11,282 | 54 | 37.8 | 29,619 | 1,623 |
|  | 1997 | 144 | 100 | 69.4 | 49 | 34.0 | 216,328 | 11,281 | 51 | 35.4 | 40,604 | 2,117 |
| Aleutians | 1995 | 128 | 106 | 82.8 | 59 | 46.1 | 411,723 | 38,493 | 47 | 36.7 | 37,886 | 3,542 |
|  | 1996 | 134 | 106 | 79.1 | 62 | 46.3 | 390,473 | 19,679 | 44 | 32.8 | 38,123 | 1,921 |
|  | 1997 | 135 | 90 | 66.7 | 50 | 37.0 | 364,102 | 18,337 | 40 | 29.6 | 70,623 | 3,557 |


[^0]:    ${ }^{1}$ The harvest estimates contained herein may not agree with sablefish harvest estimates from other data sources. Since 1990, State of Alaska fish tickets do not contain all of the sablefish catch; some Exclusive Economic Zone (EEZ) catch may be recorded only on NMFS Weekly Production Reports (WPR). The authors used fish ticket records for catcher vessels and WPR records for catcher processors to construct the 1991-1994 sablefish catch records contained herein. In doing so, the authors excluded fish ticket records from catcher processors. The amount of harvest for a catcher processor in a specific management area can vary dramatically between fish ticket data and WPR data. Thus, the method of blending data used herein may result in different harvest estimates than other methods of blending fish ticket and WPR data.
    ${ }^{2}$ Under the NMFS IFQ catch reporting system, the entire harvest is supposed to be offloaded and weighed when the first delivery is made. If a portion of the catch is "retained" by the IFQ permit holder it is entered on the catch reporting system as retained catch. Some catch is retained for personal use; however, some catch is retained to sell to a different processor or customer.

    The subsequent sale of retained catch does not result in an additional entry on the NMFS catch reporting system; i.e.,the harvest is only recorded once. Nevertheless, the system does not allow a precise breakout of catch that is sold versus catch that is kept for personal use. It is likely that some of the retained catch is subsequently sold and should be included with the commercial harvest.

[^1]:    ${ }^{3}$ Sometimes a QS award is made on appeal where an IFQ had not been set aside in the reserve pool. In such instances, an IFQ is not awarded until the following year.
    ${ }^{4}$ See 50 CFR 679.40(c) and 50 CFR 679.40(e).

