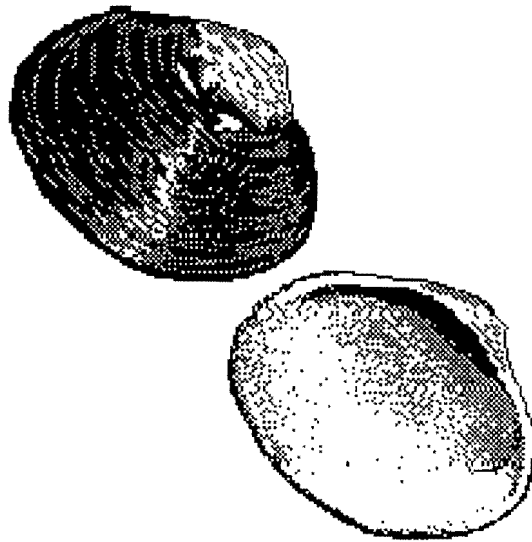


OREGON DEPARTMENT
OF
FISH AND WILDLIFE

BAY CLAM
DATA SERIES REPORT

1997



1997 BAY CLAM DATA SERIES REPORT

by

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1997 BAY CLAM DATA SERIES REPORT

INTRODUCTION

This report summarizes the results of our bay clam studies in 1997. Activities summarized include recreational and commercial clam fisheries. The tables and figures included give an historical overview of clam harvesting activities and are presented in a manner to allow future analysis to show trends of changes in stock status and fishing activities.

RECREATIONAL CLAM FISHERY

Recreational clam digger interviews have been conducted annually on each of the major clam harvesting tideflats of the Tillamook, Yaquina, and Alsea estuaries. Also, the lower Umpqua triangle was added for 1999. Recreational clam digger interviews for 1992 were totally eliminated due to budgetary restraints for the first time since 1976. We decided to initiate a volunteer recreational clam use survey for selected estuaries in 1993. Volunteer effort peaked in 1995, when 4,710 interviews were conducted. Due to reduced enthusiasm, volunteers conducted only 97 interviews in 1997 during April and May at key locations in Alsea Bay. Volunteers examined 410 clams and gathered valuable data concerning catch per effort, species composition, digger origin, and peak use. Prior to the recent volunteer program, staff effort averaged about 1,200 interviews each year at a relatively high cost of staff time and money. These data are presented in Tables 1-9, and Table 10 shows peak counts of clam diggers taken at low tide for each of the surveyed tideflats.

In 1997 volunteers interviewed 97 clam diggers that expended 114 hours to harvest 410 clams in Alsea Bay (Table 11). Clam diggers averaged 4.2 clams per trip and 6.5 clams per hour. Digging success was less than in 1996, when 13.4 clams per

trip and 13.3 clams per hour were taken. The Commission approved a reduction in bag limit in 1977 from 36 to 20 as overharvest was a real concern. Diggers have averaged from 4.2 to 19.6 clams per trip since that time.

Oregon clam diggers normally travel some distance to harvest clams. In 1997, 50% of the diggers were local county residents and 50% were from Oregon but living outside the county of harvest. There were no out-of-state residents (Table 11).

The gaper clam was the most frequently observed species in the Alsea Bay recreational fishery, representing 59.3% of the 1997 harvest (Table 11). No major changes in digging effort were evident for 1997. Peak counts were only taken in Alsea Bay for 1997. Peak count summary for 1997 is summarized in Table 10.

COMMERCIAL CLAM HARVEST

We issued 21 permits to commercial fishermen to harvest bay clams in 1997 (Table 12). Ten fishermen reported landings of 75,681 lbs of clams. In 1996, 21 fishermen reported landings of 66,733 lbs. Cockle clams represented the bulk of the commercial catch in 1997 at 48,210 lbs (63.7%) (Table 13). Tillamook Bay was the major producer of bay clams in Oregon with 69,604 lbs (92.0%). The Nehalem, Coos, and Umpqua estuaries followed, producing 4,837, 668, and 367 lbs of clams in 1997, respectively (Table 14). Commercial harvest of cockle clams in Tillamook Bay increased from 63,039 lbs in 1996 to 69,604 lbs in 1997.

SPECIAL STUDIES

Native Oyster Enhancement

Netarts Bay

We inspected the initial 1993 plant of Yaquina native oyster broodstock into Netarts Bay. Survival of adults continues to be high and the overall condition of these animals is excellent. Mark Whitwer, Netarts oyster grower, reported many native oyster spat had set on his oysters. This indicates that adult natives are now successfully reproducing on their own. Nine sacks of 1995 brood natives were redistributed from the lower bay to the upper bay.

Alsea Bay

We planted one sack of juvenile native oysters in Lint Slough directly below the dam. We also found that natives previously planted below the bridge in the Lint Slough had survived and are doing well.

Yaquina Bay

One barge load of oyster shell was placed in King Slough and one at the mouth of Flesher Slough. The shell will provide firm structure upon which native oyster spat can set. We also placed oyster shell and native oyster spat on the reef previously constructed by USCE for native oyster enhancement.

APPENDIX

Table 1. Annual Summary of Recreational Interview Data; Garibaldi Flat, Tillamook Bay

| | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|-------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|--------|--------|--------|--------|------|
| # Diggers Sampled | 597 | 456 | 359 | 219 | 132 | 200 | 107 | 290 | 277 | 421 | 476 | 450 | 272 | - | 2,031 | 3,028 | 2,443 | 994 | - |
| # Clams Sampled | 11,104 | 8,728 | 6,558 | 4,249 | 2,471 | 3,729 | 2,128 | 5,598 | 5,491 | 8,067 | 9,150 | 8,665 | 4,879 | - | 39,816 | 59,573 | 50,363 | 15,563 | - |
| # Digger Hours | 715 | 549 | 443 | 220 | 158 | 243 | 143 | 311 | 312 | 452 | 631 | 568 | 354 | - | 1,469 | 2,168 | 1,853 | 835 | - |
| Hours per Trip | 1.2 | 1.2 | 1.2 | 1.3 | 1.2 | 1.2 | 1.3 | 1.1 | 1.1 | 1.1 | 1.3 | 1.3 | 1.3 | - | 0.7 | 0.7 | 0.8 | 0.8 | - |
| Clams per Trip | 18.6 | 19.1 | 18.3 | 19.4 | 18.7 | 18.7 | 19.9 | 19.3 | 19.8 | 19.2 | 19.2 | 19.3 | 17.9 | - | 19.6 | 19.7 | 20.6 | 15.7 | - |
| Clams per Hour | 15.5 | 15.9 | 14.0 | 14.6 | 15.6 | 15.4 | 14.9 | 18.0 | 17.6 | 17.9 | 14.5 | 15.3 | 13.8 | - | 27.1 | 27.5 | 27.2 | 18.6 | - |
| Digger Origin (%) | | | | | | | | | | | | | | | | | | | |
| Local | 30.2 | 22.4 | 27.6 | 38.8 | 37.7 | 30.0 | 28.0 | 17.9 | 23.5 | 35.2 | 21.0 | 17.6 | 30.1 | - | 36.0 | 28.1 | 27.8 | 31.7 | - |
| State | 64.7 | 72.6 | 63.5 | 57.1 | 46.9 | 67.5 | 66.4 | 78.6 | 67.9 | 57.0 | 69.1 | 79.8 | 60.3 | - | 56.9 | 67.1 | 62.1 | 61.2 | - |
| Non-State | - | - | - | 4.1 | 15.4 | 2.5 | 5.6 | 3.4 | 8.7 | 7.8 | 9.9 | 2.7 | 9.6 | - | 7.1 | 4.8 | 10.1 | 7.0 | - |
| Species Comp. (%) | | | | | | | | | | | | | | | | | | | |
| Butter | 13.5 | 28.7 | 42.8 | 45.8 | 39.7 | 38.8 | 39.5 | 32.9 | 41.6 | 34.0 | 45.6 | 49.0 | 17.8 | - | 27.9 | 16.9 | 19.1 | 22.4 | - |
| Cockle | 64.0 | 46.5 | 24.2 | 27.4 | 27.4 | 28.5 | 43.2 | 51.0 | 48.7 | 35.6 | 32.0 | 35.9 | 18.5 | - | 45.8 | 55.4 | 55.4 | 63.7 | - |
| Gaper | 9.6 | 7.1 | 5.7 | 6.0 | 4.5 | 0.7 | 1.8 | 1.0 | 1.3 | 0.9 | 1.1 | 1.5 | 1.3 | - | 1.8 | 1.0 | 0.2 | 2.0 | - |
| Littleneck | 12.7 | 17.7 | 27.2 | 20.8 | 28.4 | 32.1 | 15.4 | 15.1 | 8.0 | 29.6 | 21.3 | 13.4 | 62.4 | - | 24.2 | 26.2 | 25.0 | 11.1 | - |
| Softshell | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.5 | 0.2 | 0.8 | - |
| Clams per Trip | | | | | | | | | | | | | | | | | | | |
| Butter | 2.5 | 5.5 | 7.8 | 8.9 | 7.4 | 7.2 | 7.9 | 6.3 | 8.2 | 6.5 | 8.8 | 9.4 | 3.2 | - | 5.5 | 3.3 | 3.90 | 3.5 | - |
| Cockle | 11.9 | 8.9 | 4.4 | 5.3 | 5.1 | 5.3 | 8.6 | 9.9 | 9.7 | 6.8 | 6.2 | 6.9 | 3.3 | - | 9.0 | 10.9 | 11.40 | 10.0 | - |
| Gaper | 1.8 | 1.4 | 1.4 | 1.2 | 0.9 | 0.1 | 0.4 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | - | 0.4 | 0.2 | 0.04 | 0.3 | - |
| Littleneck | 2.4 | 3.4 | 5.0 | 4.0 | 5.3 | 6.0 | 3.1 | 2.9 | 1.6 | 5.7 | 4.1 | 2.6 | 11.2 | - | 4.7 | 5.2 | 5.20 | 1.7 | - |
| Softshell | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.05 | 0.1 | - |
| Clams per Hour | | | | | | | | | | | | | | | | | | | |
| Butter | 2.1 | 4.6 | 6.3 | 6.7 | 6.2 | 6.0 | 5.9 | 5.9 | 7.3 | 6.1 | 6.6 | 7.5 | 2.5 | - | 7.5 | 4.6 | 5.2 | 4.2 | - |
| Cockle | 9.9 | 7.4 | 3.6 | 4.0 | 4.3 | 4.4 | 6.5 | 9.2 | 8.6 | 6.4 | 4.6 | 5.5 | 2.6 | - | 12.4 | 15.2 | 15.1 | 11.9 | - |
| Gaper | 1.5 | 1.1 | 0.9 | 0.9 | 0.7 | 0.1 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | - | 0.5 | 0.3 | 0.1 | 0.4 | - |
| Littleneck | 2.0 | 2.8 | 4.0 | 3.0 | 4.4 | 4.9 | 2.3 | 2.7 | 1.4 | 5.3 | 3.1 | 2.0 | 8.6 | - | 6.6 | 7.2 | 5.2 | 2.1 | - |
| Softshell | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.2 | 0.1 | 0.1 | - |

**Table 2. Annual Summary of Recreational Interview Data;
Tillamook Bay**

| | Central Bay | | | | | Buoy 10 | | | | |
|---------------------|-------------|-------|-------|-------|------|---------|------|------|------|------|
| | 1993 | 1994 | 1995 | 1996 | 1997 | 1993 | 1994 | 1995 | 1996 | 1997 |
| No. Diggers Sampled | 343 | 402 | 209 | 134 | - | 63 | - | - | - | - |
| No. Clams Sampled | 6,420 | 7,965 | 4,116 | 2,711 | - | 1,174 | - | - | - | - |
| No. Digger Hours | 375 | 511 | 242 | 107 | - | 64 | - | - | - | - |
| Hours per Trip | 1.1 | 1.1 | 1.2 | 0.8 | - | 1.0 | - | - | - | - |
| Clams per Trip | 18.7 | 19.8 | 19.7 | 20.2 | - | 18.6 | - | - | - | - |
| Clams per Hour | 17.1 | 15.6 | 17.0 | 25.3 | - | 18.3 | - | - | - | - |
| Digger Origin (%) | | | | | | | | | | |
| Local | 51.3 | 43.0 | 69.3 | 57.5 | - | 57.1 | - | - | - | - |
| State | 45.2 | 56.2 | 28.7 | 39.6 | - | 41.3 | - | - | - | - |
| Non-State | 3.5 | 0.8 | 1.9 | 3.0 | - | 1.6 | - | - | - | - |
| Species Comp. (%) | | | | | | | | | | |
| Butter | 16.2 | 27.8 | 41.1 | 28.8 | - | 80.5 | - | - | - | - |
| Cockle | 79.0 | 67.4 | 53.3 | 60.1 | - | 18.7 | - | - | - | - |
| Gaper | 3.8 | 1.5 | 5.7 | 1.4 | - | 0.8 | - | - | - | - |
| Littleneck | 1.0 | 3.3 | - | 4.5 | - | - | - | - | - | - |
| Softshell | - | - | - | 6.6 | - | - | - | - | - | - |
| Clams per Trip | | | | | | | | | | |
| Butter | 3.0 | 5.5 | 8.1 | 5.8 | - | 15.0 | - | - | - | - |
| Cockle | 14.8 | 13.4 | 10.5 | 12.2 | - | 3.5 | - | - | - | - |
| Gaper | 1.4 | 0.3 | 1.1 | 0.3 | - | 0.1 | - | - | - | - |
| Littleneck | 0.2 | 0.7 | - | 0.9 | - | - | - | - | - | - |
| Softshell | - | - | - | 1.3 | - | - | - | - | - | - |
| Clams per Hour | | | | | | | | | | |
| Butter | 2.8 | 4.3 | 7.0 | 7.3 | - | 14.8 | - | - | - | - |
| Cockle | 13.5 | 10.5 | 9.1 | 15.2 | - | 3.4 | - | - | - | - |
| Gaper | 0.6 | 0.2 | 1.0 | 0.4 | - | 0.1 | - | - | - | - |
| Littleneck | 0.2 | 0.5 | - | 1.1 | - | - | - | - | - | - |
| Softshell | - | - | - | 1.7 | - | - | - | - | - | - |

Table 3. Annual Summary of Recreational Interview Data; Happy Camp, Netarts Bay

| | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|-------------------|-------|-------|------|-------|-------|-------|-------|------|------|-------|------|------|------|------|------|-------|-------|------|------|
| # Diggers Sampled | 222 | 106 | 71 | 168 | 280 | 84 | 99 | 60 | 103 | 108 | 91 | 62 | 27 | - | 23 | 13 | 146 | - | - |
| # Clams Sampled | 2,823 | 1,293 | 991 | 2,020 | 2,994 | 1,009 | 1,010 | 579 | 709 | 1,068 | 870 | 398 | 390 | - | 255 | 251 | 1,493 | - | - |
| # Digger Hours | 204 | 68 | 67 | 151 | 290 | 84 | 124 | 92 | 205 | 209 | 182 | 92 | 48 | - | 24 | 17 | 224 | - | - |
| Hours per Trip | 0.9 | 0.6 | 0.9 | 0.9 | 1.0 | 1.0 | 1.3 | 1.5 | 2.0 | 1.9 | 2.0 | 1.5 | 1.5 | - | 1.0 | 1.3 | 1.5 | - | - |
| Clams per Trip | 12.7 | 12.2 | 12.9 | 12.0 | 10.7 | 12.0 | 10.2 | 9.7 | 6.9 | 9.9 | 9.6 | 6.4 | 14.4 | - | 11.1 | 19.3 | 10.2 | - | - |
| Clams per Hour | 13.8 | 19.1 | 14.8 | 13.4 | 10.3 | 12.0 | 8.1 | 6.3 | 3.5 | 5.1 | 4.8 | 4.3 | 8.1 | - | 10.6 | 14.8 | 6.7 | - | - |
| Digger Origin (%) | | | | | | | | | | | | | | | | | | | |
| Local | 28.4 | 17.9 | 40.3 | 48.2 | 22.5 | 29.8 | 32.3 | 31.7 | 10.7 | 16.7 | 25.3 | 16.1 | 55.6 | - | 43.5 | - | 20.5 | - | - |
| State | 59.9 | 73.6 | 50.6 | 44.0 | 72.9 | 64.3 | 53.5 | 66.7 | 87.4 | 65.7 | 65.9 | 51.6 | 37.0 | - | 56.5 | 100.0 | 69.2 | - | - |
| Non-State | 11.7 | 8.5 | 9.1 | 7.7 | 4.6 | 6.0 | 14.1 | 1.7 | 1.9 | 17.6 | 8.8 | 32.3 | 7.4 | - | - | - | 10.3 | - | - |
| Species Comp. (%) | | | | | | | | | | | | | | | | | | | |
| Butter | 7.7 | 5.4 | 13.7 | 5.0 | 0.7 | 3.7 | 4.0 | 7.9 | 15.9 | 20.8 | 16.3 | 14.8 | 52.6 | - | 82.0 | 53.0 | 6.2 | - | - |
| Cockle | - | 0.1 | - | <0.1 | 0.1 | 4.0 | 0.4 | 2.1 | 2.1 | 3.4 | 1.8 | 1.3 | 10.5 | - | 4.7 | 10.4 | 0.8 | - | - |
| Gaper | 90.3 | 92.5 | 82.7 | 94.3 | 98.5 | 89.5 | 93.6 | 84.6 | 73.1 | 68.8 | 72.5 | 81.4 | 31.8 | - | 13.3 | 36.6 | 90.6 | - | - |
| Littleneck | 0.2 | 2.0 | 3.4 | 0.6 | 0.8 | 2.9 | 2.1 | 5.4 | 8.3 | 7.0 | 9.2 | 2.5 | 5.1 | - | - | - | 2.3 | - | - |
| Softshell | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Clams per Trip | | | | | | | | | | | | | | | | | | | |
| Butter | 1.0 | 0.7 | 1.8 | 0.6 | 0.1 | 0.4 | 0.4 | 0.8 | 1.1 | 2.1 | 1.6 | 1.0 | 7.6 | - | 9.1 | 10.2 | 0.6 | - | - |
| Cockle | - | <0.1 | - | <0.1 | <0.1 | 0.5 | <0.1 | 0.2 | 0.1 | 0.3 | 0.2 | 0.1 | 1.5 | - | 0.5 | 2.0 | 0.1 | - | - |
| Gaper | 11.5 | 11.3 | 10.6 | 11.3 | 10.5 | 10.8 | 9.5 | 8.2 | 5.0 | 6.8 | 6.9 | 5.2 | 4.6 | - | 1.5 | 7.1 | 9.3 | - | - |
| Littleneck | 0.2 | 0.2 | 0.4 | 0.1 | 0.1 | 0.4 | 0.2 | 0.5 | 0.6 | 0.7 | 0.9 | 0.2 | 0.7 | - | - | - | 0.2 | - | - |
| Softshell | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Clams per Hour | | | | | | | | | | | | | | | | | | | |
| Butter | 1.1 | 1.0 | 2.0 | 0.7 | 0.1 | 0.4 | 0.3 | 0.5 | 0.6 | 1.1 | 0.8 | 0.6 | 4.3 | - | 8.7 | 7.8 | 0.4 | - | - |
| Cockle | - | <0.1 | - | <0.1 | <0.1 | 0.5 | <0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.9 | - | 0.5 | 1.5 | 0.1 | - | - |
| Gaper | 12.5 | 17.7 | 12.3 | 12.7 | 10.2 | 10.8 | 7.6 | 5.3 | 2.5 | 3.5 | 3.5 | 3.5 | 2.6 | - | 1.4 | 5.4 | 6.0 | - | - |
| Littleneck | 0.3 | 0.4 | 0.5 | 0.1 | 0.1 | 0.4 | 0.2 | 0.3 | 0.3 | 0.4 | 0.4 | 0.1 | 0.4 | - | - | - | 0.2 | - | - |
| Softshell | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

Table 4. Annual Summary of Recreational Interview Data; Cape Lookout Sand Spit, Netarts Bay

| | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|-----------------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|------|------|-------|-------|--------|------|------|
| # Diggers | 85 | 63 | 80 | 56 | 118 | 71 | 52 | 42 | 71 | 147 | 100 | 117 | 35 | - | 244 | 253 | 735 | - | - |
| # Clams Sampled | 1,560 | 1,074 | 1,397 | 1,029 | 2,174 | 1,362 | 1,040 | 819 | 1,409 | 2,765 | 1,713 | 2,314 | 387 | - | 4,649 | 3,658 | 12,385 | - | - |
| # Digger Hours | 178 | 89 | 150 | 83 | 197 | 87 | 85 | 92 | 151 | 237 | 196 | 232 | 43 | - | 316 | 344 | 1,089 | - | - |
| Hours per Trip | 2.1 | 1.4 | 1.9 | 1.5 | 1.7 | 1.2 | 1.6 | 2.2 | 2.1 | 1.6 | 2.0 | 2.0 | 1.2 | - | 1.3 | 1.4 | 1.5 | - | - |
| Clams per Trip | 18.4 | 17.0 | 17.5 | 18.4 | 18.4 | 19.2 | 20.0 | 19.5 | 19.8 | 18.8 | 17.1 | 19.8 | 11.1 | - | 19.1 | 14.5 | 16.9 | - | - |
| Clams per Hour | 8.8 | 12.1 | 9.3 | 12.4 | 11.1 | 15.8 | 12.2 | 9.0 | 9.4 | 11.7 | 8.8 | 10.0 | 9.1 | - | 14.7 | 10.6 | 11.4 | - | - |
| Digger Origin | | | | | | | | | | | | | | | | | | | |
| Local | 36.5 | 17.5 | 12.5 | 44.6 | 38.1 | 43.7 | 53.8 | 31.0 | 26.8 | 18.4 | 44.0 | 31.6 | 8.6 | - | 52.0 | 36.1 | 38.9 | - | - |
| State | 61.2 | 76.2 | 81.3 | 51.8 | 53.4 | 52.1 | 44.2 | 40.5 | 62.0 | 67.3 | 43.0 | 64.1 | 57.1 | - | 40.0 | 58.6 | 50.3 | - | - |
| Non-State | 2.3 | 6.3 | 7.5 | 3.6 | 8.5 | 4.2 | 1.9 | 28.6 | 11.3 | 14.3 | 13.0 | 4.3 | 34.3 | - | 8.0 | 5.2 | 10.8 | - | - |
| Species Comp. | | | | | | | | | | | | | | | | | | | |
| Butter | 5.5 | 1.9 | 7.7 | 0.3 | 11.0 | 11.0 | 16.0 | 7.0 | 10.6 | 4.1 | 18.2 | 13.9 | 9.8 | - | 44.0 | - | 21.8 | - | - |
| Cockle | 74.4 | 93.3 | 76.7 | 84.9 | 80.4 | 78.0 | 82.1 | 89.5 | 83.1 | 88.9 | 67.7 | 68.0 | 34.6 | - | 47.0 | 82.6 | 56.0 | - | - |
| Gaper | 16.0 | 4.8 | 13.3 | 12.1 | 5.9 | 9.0 | 0.2 | 3.4 | 3.2 | 3.0 | 5.7 | 11.9 | 52.5 | - | 6.9 | 17.2 | 20.0 | - | - |
| Littleneck | 3.8 | - | 1.9 | 2.6 | 2.6 | 0.1 | 1.7 | 0.1 | 0.9 | 0.9 | 7.7 | 0.6 | 0.8 | - | 2.1 | 0.2 | 0.7 | - | - |
| Softshell | - | - | - | - | - | 1.8 | - | - | - | - | - | 3.2 | 2.3 | - | - | - | 1.4 | - | - |
| Clams per Trip | | | | | | | | | | | | | | | | | | | |
| Butter | 1.0 | 0.3 | 1.4 | 0.1 | 2.0 | 2.1 | 3.2 | 1.4 | 2.1 | 0.8 | 3.1 | 2.7 | 1.1 | - | 8.4 | - | 3.7 | - | - |
| Cockle | 13.6 | 15.9 | 13.4 | 15.6 | 14.8 | 15.0 | 16.4 | 17.5 | 16.5 | 16.7 | 11.6 | 13.4 | 3.8 | - | 9.0 | 12.0 | 9.4 | - | - |
| Gaper | 2.9 | 0.8 | 2.3 | 2.2 | 1.1 | 1.7 | - | 0.7 | 0.6 | 0.6 | 1.0 | 2.4 | 5.8 | - | 1.3 | 2.5 | 3.4 | - | - |
| Littleneck | 0.7 | - | 0.3 | 0.5 | 0.5 | <0.1 | 0.3 | - | 0.2 | 0.2 | 1.3 | 0.1 | 0.1 | - | 0.4 | - | 0.1 | - | - |
| Softshell | - | - | - | - | - | 0.4 | - | - | - | - | - | 0.6 | 0.3 | - | - | - | 0.2 | - | - |
| Clams per Hour | | | | | | | | | | | | | | | | | | | |
| Butter | 0.5 | 0.2 | 0.7 | <0.1 | 1.2 | 1.7 | 2.0 | 0.6 | 1.0 | 0.5 | 1.6 | 1.4 | 0.9 | - | 6.5 | - | 2.5 | - | - |
| Cockle | 6.5 | 11.3 | 7.2 | 10.5 | 8.9 | 12.3 | 10.0 | 8.0 | 7.8 | 10.4 | 5.9 | 6.8 | 3.2 | - | 6.9 | 8.8 | 6.4 | - | - |
| Gaper | 1.4 | 0.6 | 1.2 | 1.5 | 0.7 | 1.4 | - | 0.3 | 0.3 | 0.4 | 0.5 | 1.2 | 4.8 | - | 1.0 | 1.8 | 2.3 | - | - |
| Littleneck | 0.3 | - | 0.2 | 0.3 | 0.3 | <0.1 | 0.2 | - | 0.1 | 0.1 | 0.7 | 0.1 | 0.1 | - | 0.3 | - | 0.1 | - | - |
| Softshell | - | - | - | - | - | 0.3 | - | - | - | - | - | 0.3 | 0.2 | - | - | - | 0.2 | - | - |

Table 5. Annual Summary of Recreational Interview Data; Bridge Bed, Yaquina Bay

| | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|-------|------|------|-------|------|------|-------|------|
| # Diggers | 143 | 142 | 342 | 149 | 202 | 191 | 207 | 120 | 110 | 102 | 108 | 91 | 72 | - | 319 | 94 | 70 | 546 | - |
| # Clams Sampled | 1,313 | 1,222 | 3,773 | 1,609 | 1,543 | 1,383 | 1,765 | 1,363 | 960 | 814 | 834 | 1,031 | 818 | - | 3,612 | 976 | 783 | 5,290 | - |
| # Digger Hours | 120 | 160 | 354 | 154 | 274 | 265 | 304 | 153 | 160 | 155 | 109 | 159 | 106 | - | 457 | 126 | 83 | 702 | - |
| Hours per Trip | 0.8 | 1.1 | 1.0 | 1.0 | 1.4 | 1.4 | 1.5 | 1.3 | 1.5 | 1.5 | 1.0 | 1.7 | 1.5 | - | 1.4 | 1.3 | 1.2 | 1.3 | - |
| Clams per Trip | 9.2 | 8.6 | 11.0 | 10.8 | 7.6 | 7.2 | 8.5 | 11.4 | 8.7 | 8.0 | 7.7 | 11.3 | 11.4 | - | 11.3 | 10.4 | 11.2 | 9.7 | - |
| Clams per Hour | 10.9 | 7.7 | 10.7 | 10.4 | 5.6 | 5.2 | 5.8 | 8.9 | 6.0 | 5.3 | 7.7 | 6.5 | 7.7 | - | 7.9 | 7.7 | 9.4 | 7.5 | - |
| Digger Origin (%) | | | | | | | | | | | | | | | | | | | |
| Local | 22.4 | 18.3 | 44.7 | 48.3 | 32.2 | 45.5 | 34.3 | 25.8 | 32.7 | 18.6 | 38.0 | 28.6 | 26.4 | - | 26.3 | 26.6 | 68.3 | 42.1 | - |
| State | 76.2 | 70.4 | 49.1 | 48.3 | 67.8 | 49.7 | 62.8 | 72.5 | 64.5 | 72.5 | 62.0 | 64.8 | 63.9 | - | 67.1 | 62.8 | 31.7 | 50.2 | - |
| Non-State | 1.4 | 11.3 | 6.1 | 3.4 | - | 4.7 | 2.9 | 1.7 | 2.7 | 8.8 | - | 6.6 | 9.7 | - | 6.6 | 10.6 | 0.0 | 7.7 | - |
| Species Comp. | | | | | | | | | | | | | | | | | | | |
| Butter | 0.2 | 1.7 | 0.8 | 1.9 | 3.2 | 2.4 | 5.8 | 4.3 | 4.4 | 1.8 | 3.9 | 1.9 | 1.6 | - | 2.8 | 0.7 | 1.3 | 1.5 | - |
| Cockle | 7.9 | 1.4 | 15.7 | 7.2 | 12.9 | 5.2 | 11.2 | 14.4 | 2.8 | 10.1 | 9.9 | 12.1 | 1.9 | - | 9.8 | 8.8 | 1.0 | 0.6 | - |
| Gaper | 89.6 | 94.8 | 81.0 | 85.4 | 72.9 | 80.1 | 62.4 | 65.1 | 83.6 | 39.9 | 69.1 | 60.2 | 93.3 | - | 85.0 | 88.0 | 95.3 | 96.4 | - |
| Littleneck | 0.4 | 2.1 | 1.7 | 4.5 | 2.8 | 4.5 | 7.4 | 2.6 | 5.3 | 3.7 | 3.6 | 3.8 | 3.1 | - | - | 2.1 | - | - | - |
| Softshell | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Other * | - | - | - | - | - | 7.8 | 13.2 | - | - | - | - | - | - | - | 2.4 | - | 2.4 | 1.3 | - |
| Clams per Trip | | | | | | | | | | | | | | | | | | | |
| Butter | <0.1 | <0.1 | 0.1 | 0.2 | 0.3 | 0.2 | 0.5 | 0.5 | 0.4 | 0.1 | 0.3 | 0.2 | 0.2 | - | 0.3 | 0.1 | 0.1 | 0.1 | - |
| Cockle | 0.7 | <0.1 | 1.7 | 0.8 | 1.0 | 0.4 | 1.0 | 1.6 | 0.6 | 0.8 | 0.8 | 1.4 | 0.2 | - | 1.1 | 0.9 | 0.1 | 0.1 | - |
| Gaper | 8.2 | 8.2 | 8.9 | 9.2 | 5.6 | 5.8 | 5.3 | 7.4 | 7.3 | 3.2 | 5.7 | 6.8 | 10.3 | - | 9.6 | 9.1 | 10.7 | 9.3 | - |
| Littleneck | 0.1 | 0.2 | 0.2 | 0.5 | 0.2 | 0.3 | 0.6 | 0.3 | 0.5 | 0.3 | 0.3 | 0.4 | 0.3 | - | - | 0.2 | - | - | - |
| Softshell | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Clams per Hour | | | | | | | | | | | | | | | | | | | |
| Butter | <0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.1 | 0.3 | 0.4 | 0.3 | 0.1 | 0.3 | 0.1 | 0.1 | - | 0.22 | 0.1 | 0.1 | 0.1 | - |
| Cockle | 0.9 | 0.1 | 1.1 | 0.8 | 0.7 | 0.3 | 0.6 | 1.3 | 0.2 | 0.5 | 0.8 | 0.8 | 0.1 | - | 0.77 | 0.7 | 0.1 | 0.1 | - |
| Gaper | 9.8 | 7.3 | 8.6 | 8.9 | 4.1 | 4.2 | 3.6 | 5.8 | 5.0 | 2.1 | 5.6 | 3.9 | 7.0 | - | 6.70 | 6.8 | 9.0 | 7.3 | - |
| Littleneck | - | - | - | - | 0.2 | 0.2 | 0.4 | 0.2 | 0.3 | 0.2 | 0.3 | 0.2 | 0.2 | - | - | 0.2 | - | - | - |
| Softshell | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

*Bentnose 7.0%, Inquinata 0.2%, other 0.6%

Table 6. Annual Summary of Recreational Interview Data

| | Umpqua Triangle | | | | | Ales Bay | | | | | | N Fork Siuslaw | Smith River Bridge | | |
|-------------------|-----------------|------|------|------|------|----------|------|------|---------|-------|------|-------------------|--------------------|-------|------|
| | | | | | | Seawall | | | N Shore | | | | 1995 | 1993 | 1994 |
| | 1991 | 1992 | 1993 | 1994 | 1995 | 1995 | 1996 | 1997 | 1995 | 1996 | 1997 | | | | |
| # Diggers Sampled | 59 | - | 66 | - | - | 750 | 70 | 21 | 349 | 158 | 76 | 8 | 48 | 135 | - |
| # Clams Sampled | 894 | - | 569 | - | - | 14,143 | 203 | 106 | 4,234 | 1,500 | 410 | 195 | 1,566 | 5,691 | - |
| # Digger Hours | 81 | - | 97 | - | - | 774 | 62 | 39 | 290 | 187 | 75 | 16 | 58 | 143 | - |
| Hours per Trip | 1.4 | - | 1.5 | - | - | 1.0 | 0.89 | 1.9 | 0.83 | 1.2 | .98 | 2.0 | 1.2 | 1.1 | - |
| Clams per Trip | 15.2 | - | 9.6 | - | - | 18.9 | 2.90 | 5.1 | 12.10 | 9.5 | 5.4 | 24.4 | 32.6 | 42.2 | - |
| Clams per Hour | 11.1 | - | 5.8 | - | - | 18.3 | 3.20 | 2.7 | 14.60 | 8.0 | 5.4 | 12.2 | 27.0 | 39.8 | - |
| Digger Origin (%) | | | | | | | | | | | | | | | |
| Local | 52.5 | - | 47.0 | - | - | 46.4 | 36.0 | 42.9 | 53.4 | 63.0 | 50 | 0.0 | 37.5 | 53.0 | - |
| State | 33.9 | - | 25.8 | - | - | 39.8 | 20.0 | 52.4 | 29.9 | 29.0 | 50 | 87.5 | 52.1 | 32.1 | - |
| Non-State | 13.6 | - | 27.2 | - | - | 13.8 | 14.0 | 4.7 | 16.7 | 8.0 | - | 12.0 | 10.4 | 15.0 | - |
| Species Comp. (%) | | | | | | | | | | | | | | | |
| Butter | 0.0 | - | - | - | - | 0.0 | - | - | 0.0 | - | - | - | - | - | - |
| Cockle | 82.4 | - | 79.8 | - | - | 98.9 | 67.0 | 95.3 | 80.3 | 5.1 | 0.4 | - | - | - | - |
| Gaper | 17.4 | - | 20.0 | - | - | 0.3 | 22.7 | 2.8 | 13.4 | 38.0 | 59.2 | - | - | - | - |
| Littleneck | 0.1 | - | - | - | - | 0.8 | 10.3 | 1.9 | 2.4 | 56.9 | 40.2 | - | - | - | - |
| Softshell | - | - | - | - | - | - | - | - | 3.9 | - | - | 100.0 | 100.0 | 100.0 | - |
| Clams per Trip | | | | | | | | | | | | | | | |
| Butter | 0.0 | - | - | - | - | - | - | - | 0.0 | - | - | - | - | - | - |
| Cockle | 12.5 | - | 6.9 | - | - | 18.6 | 1.90 | 4.8 | 9.7 | 0.5 | 0.1 | - | - | - | - |
| Gaper | 2.6 | - | 1.7 | - | - | 0.1 | 0.66 | 0.1 | 1.6 | 3.6 | 3.2 | - | - | - | - |
| Littleneck | - | - | - | - | - | 0.2 | 0.30 | 0.1 | 0.3 | 5.4 | 2.2 | - | - | - | - |
| Softshell | - | - | - | - | - | - | - | - | 0.5 | - | - | 24.4 | 32.6 | 42.2 | - |
| Clams per Hour | | | | | | | | | | | | | | | |
| Butter | 0.0 | - | - | - | - | 0.0 | - | - | 0.0 | - | - | - | - | - | - |
| Cockle | 12.5 | - | 4.7 | - | - | 18.1 | 2.20 | 2.6 | 11.7 | 0.4 | 0.1 | - | - | - | - |
| Gaper | 2.6 | - | 1.2 | - | - | 0.1 | 0.74 | 0.1 | 2.0 | 3.0 | 3.2 | - | - | - | - |
| Littleneck | - | - | - | - | - | 0.2 | 0.34 | 0.1 | 0.4 | 4.6 | 2.2 | - | - | - | - |
| Softshell | - | - | - | - | - | - | - | - | 0.6 | - | - | 12.2 | 27.0 | 39.8 | - |

Table 7. Annual Summary of Recreational Interview Data; Charleston Triangle, Coos Bay

| | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|---------------------|------|------|------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
| No. Diggers Sampled | 40 | 32 | 20 | 58 | 91 | 50 | 96 | 107 | 40 | - | - | 43 | - | - | - |
| No. Clams Sampled | 771 | 588 | 410 | 1,193 | 1,647 | 814 | 1,535 | 1,742 | 606 | - | - | 438 | - | - | - |
| No. Digger Hours | 44 | 27 | 25 | 75 | 105 | 75 | 115 | 141 | 47.5 | - | - | 69 | - | - | - |
| Hours per Trip | 1.1 | 0.8 | 1.2 | 1.3 | 1.2 | 1.5 | 1.2 | 1.3 | 1.2 | - | - | 1.6 | - | - | - |
| Clams per Trip | 19.3 | 18.4 | 20.5 | 20.6 | 18.1 | 16.3 | 16.0 | 16.3 | 15.2 | - | - | 10.2 | - | - | - |
| Clams per Hour | 17.5 | 22.0 | 16.7 | 16.0 | 15.7 | 10.9 | 13.4 | 12.4 | 12.8 | - | - | 6.3 | - | - | - |
| Digger Origin (%) | | | | | | | | | | | | | | | |
| Local | 22.5 | 40.6 | 50.0 | 29.3 | 34.1 | 20.0 | 21.9 | 20.6 | 22.5 | - | - | 26.8 | - | - | - |
| State | 72.5 | 56.3 | 35.0 | 62.1 | 47.3 | 52.0 | 68.8 | 71.0 | 37.5 | - | - | 51.2 | - | - | - |
| Non-State | 5.0 | 3.1 | 15.0 | 8.6 | 18.1 | 28.0 | 9.4 | 8.4 | 40.0 | - | - | 22.0 | - | - | - |
| Species Comp. (%) | | | | | | | | | | | | | | | |
| Butter | 19.6 | 10.9 | 13.2 | 2.6 | 13.2 | 11.8 | 2.7 | 3.3 | 0.2 | - | - | 0.5 | - | - | - |
| Cockle | 55.1 | 69.2 | 56.6 | 66.5 | 47.3 | 43.2 | 47.5 | 34.6 | 57.6 | - | - | 3.0 | - | - | - |
| Gaper | 3.9 | 15.0 | 20.5 | 17.5 | 31.3 | 32.9 | 44.9 | 48.1 | 41.7 | - | - | 91.6 | - | - | - |
| Littleneck | 23.2 | 4.9 | 9.5 | 8.5 | 5.8 | 8.8 | 5.0 | 9.4 | 0.5 | - | - | - | - | - | - |
| Softshell | - | - | - | 0.3 | 0.1 | - | - | 0.1 | - | - | - | - | - | - | - |
| Clams per Trip | | | | | | | | | | | | | | | |
| Butter | 3.8 | 2.0 | 2.7 | 0.5 | 2.4 | 1.9 | 0.4 | 0.5 | - | - | - | 0.1 | - | - | - |
| Cockle | 10.6 | 12.7 | 11.6 | 13.7 | 8.6 | 7.0 | 7.4 | 5.6 | 8.7 | - | - | 0.3 | - | - | - |
| Gaper | 0.8 | 2.8 | 4.2 | 3.6 | 5.7 | 5.4 | 7.0 | 7.8 | 6.3 | - | - | 9.3 | - | - | - |
| Littleneck | 4.5 | 0.9 | 1.9 | 1.8 | 1.1 | 1.4 | 0.8 | 1.5 | 0.1 | - | - | 0.5 | - | - | - |
| Softshell | - | - | - | 0.1 | - | - | - | <0.1 | - | - | - | - | - | - | - |
| Clams per Hour | | | | | | | | | | | | | | | |
| Butter | 3.4 | 2.4 | 2.2 | 0.4 | 2.1 | 1.3 | 0.3 | 0.4 | - | - | - | - | - | - | - |
| Cockle | 9.7 | 15.2 | 9.5 | 10.6 | 7.4 | 4.7 | 6.2 | 4.3 | 7.3 | - | - | 0.2 | - | - | - |
| Gaper | 0.7 | 3.3 | 3.4 | 2.8 | 4.9 | 3.6 | 5.9 | 6.0 | 5.3 | - | - | 5.8 | - | - | - |
| Littleneck | 4.1 | 1.1 | 1.6 | 1.4 | 0.9 | 1.0 | 0.7 | 1.2 | 0.1 | - | - | 0.3 | - | - | - |
| Softshell | - | - | - | 0.1 | - | - | - | <1.2 | - | - | - | - | - | - | - |
| Size Comp. (x size) | | | | | | | | | | | | | | | |
| Butter | 73.3 | 80.2 | 82.5 | 75.3 | 78.2 | 80.7 | 85.9 | 80.6 | 85.3 | - | - | - | - | - | - |
| Cockle | 51.2 | 66.3 | 62.6 | 63.2 | 61.2 | 61.4 | 59.1 | 60.6 | 55.1 | - | - | - | - | - | - |
| Gaper | 88.6 | 95.2 | 98.2 | 97.3 | 99.1 | 103.3 | 98.7 | 113.3 | 107.7 | - | - | - | - | - | - |
| Littleneck | 55.2 | 57.6 | 61.3 | 61.1 | 58.9 | 62.1 | 64.8 | 63.9 | 66.0 | - | - | - | - | - | - |
| Softshell | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| No. Clams Measured | | | | | | | | | | | | | | | |
| Butter | 39 | 17 | 52 | 15 | 118 | 88 | 30 | 19 | 3 | - | - | - | - | - | - |
| Cockle | 45 | 218 | 185 | 175 | 298 | 149 | 169 | 97 | 238 | - | - | - | - | - | - |
| Gaper | 26 | 54 | 67 | 30 | 187 | 165 | 158 | 125 | 192 | - | - | - | - | - | - |
| Littleneck | 18 | 159 | 41 | 51 | 64 | 63 | 29 | 57 | 3 | - | - | - | - | - | - |
| Softshell | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

Table 8. Annual Summary of Recreational Interview Data; Charleston Flat, Coos Bay

| | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|------|------|------|
| No. Diggers Sampled | 60 | 27 | 18 | 100 | 113 | 97 | 61 | 65 | 65 | - | - | 90 | - | - | - |
| No. Clams Sampled | 859 | 435 | 341 | 1,980 | 2,145 | 1,523 | 974 | 887 | 938 | - | - | 925 | - | - | - |
| No. Digger Hours | 125 | 29 | 32 | 180 | 185 | 176 | 103 | 113 | 110 | - | - | 113 | - | - | - |
| Hours per Trip | 2.1 | 1.1 | 1.8 | 1.8 | 1.6 | 1.8 | 1.7 | 1.7 | 1.7 | - | - | 1.26 | - | - | - |
| Clams per Trip | 14.3 | 16.1 | 18.9 | 19.8 | 19.0 | 15.7 | 16.0 | 13.6 | 14.4 | - | - | 10.30 | - | - | - |
| Clams per Hour | 6.9 | 15.1 | 10.7 | 11.0 | 11.6 | 8.7 | 9.5 | 7.8 | 8.6 | - | - | 8.20 | - | - | - |
| Digger Origin (%) | | | | | | | | | | | | | | | |
| Local | 21.7 | 40.7 | 16.7 | 35.0 | 28.3 | 20.6 | 14.8 | 36.9 | 41.5 | - | - | 11.4 | - | - | - |
| State | 73.3 | 51.9 | 38.9 | 57.0 | 48.7 | 66.0 | 68.9 | 49.2 | 46.2 | - | - | 65.9 | - | - | - |
| Non-State | 5.0 | 7.4 | 44.4 | 8.0 | 23.0 | 13.4 | 16.4 | 13.8 | 12.3 | - | - | 22.7 | - | - | - |
| Species Comp. (%) | | | | | | | | | | | | | | | |
| Butter | 2.0 | 4.6 | 6.7 | 2.8 | 2.7 | 10.2 | 4.8 | 5.5 | 19.4 | - | - | 3.6 | - | - | - |
| Cockle | 46.6 | 60.9 | 72.4 | 83.3 | 63.9 | 35.4 | 31.8 | 9.1 | 16.5 | - | - | 4.5 | - | - | - |
| Gaper | 38.8 | 27.6 | 17.3 | 8.8 | 26.2 | 42.5 | 47.7 | 71.6 | 58.3 | - | - | 84.7 | - | - | - |
| Littleneck | 10.6 | 3.7 | 3.5 | 4.1 | 4.7 | 10.8 | 14.5 | 11.6 | 5.8 | - | - | 7.0 | - | - | - |
| Softshell | - | 3.0 | - | 0.1 | - | 0.4 | 1.3 | - | 0.0 | - | - | - | - | - | - |
| Clams per Trip | | | | | | | | | | | | | | | |
| Butter | 0.3 | 0.7 | 1.3 | 0.6 | 0.5 | 1.6 | 0.7 | 0.8 | 2.7 | - | - | 0.4 | - | - | - |
| Cockle | 6.7 | 9.8 | 13.7 | 16.5 | 12.1 | 5.6 | 4.9 | 1.2 | 2.3 | - | - | 0.5 | - | - | - |
| Gaper | 5.6 | 4.4 | 3.3 | 1.8 | 5.0 | 6.7 | 7.3 | 9.8 | 8.1 | - | - | 8.7 | - | - | - |
| Littleneck | 1.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1.7 | 2.2 | 1.6 | 0.8 | - | - | 0.7 | - | - | - |
| Softshell | - | 0.5 | - | <0.1 | - | 0.1 | 0.2 | - | - | - | - | - | - | - | - |
| Clams per Hour | | | | | | | | | | | | | | | |
| Butter | 0.1 | 0.7 | 0.7 | 0.3 | 0.3 | 0.9 | 0.4 | 0.4 | 1.6 | - | - | 0.3 | - | - | - |
| Cockle | 3.2 | 9.2 | 7.7 | 9.2 | 7.4 | 3.1 | 2.9 | 0.7 | 1.4 | - | - | 0.4 | - | - | - |
| Gaper | 2.7 | 4.6 | 1.8 | 1.0 | 3.0 | 3.7 | 4.3 | 5.6 | 4.8 | - | - | 6.9 | - | - | - |
| Littleneck | 0.7 | 0.6 | 0.4 | 0.5 | 0.5 | 0.9 | 1.3 | 0.9 | 0.5 | - | - | 0.6 | - | - | - |
| Softshell | - | - | - | <0.1 | - | - | 0.1 | - | - | - | - | - | - | - | - |
| Size Comp. (x size) | | | | | | | | | | | | | | | |
| Butter | 84.0 | 78.1 | 75.0 | 78.9 | 81.3 | 78.3 | 93.7 | 79.3 | 72.5 | - | - | - | - | - | - |
| Cockle | 59.9 | 63.2 | 62.2 | 66.9 | 65.6 | 62.3 | 62.6 | 56.2 | 67.2 | - | - | - | - | - | - |
| Gaper | 100.6 | 105.9 | 110.1 | 109.1 | 109.0 | 106.9 | 102.4 | 103.1 | 107.2 | - | - | - | - | - | - |
| Littleneck | 55.0 | 65.0 | 62.2 | 60.5 | 58.4 | 65.8 | 59.3 | 61.8 | 50.8 | - | - | - | - | - | - |
| Softshell | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| No. Clams Measured | | | | | | | | | | | | | | | |
| Butter | 1 | 13 | 20 | 43 | 44 | 86 | 39 | 46 | 129 | - | - | - | - | - | - |
| Cockle | 38 | 92 | 247 | 234 | 128 | 193 | 163 | 88 | 135 | - | - | - | - | - | - |
| Gaper | 13 | 80 | 58 | 70 | 188 | 271 | 109 | 150 | 166 | - | - | - | - | - | - |
| Littleneck | 3 | 2 | 13 | 30 | 86 | 96 | 102 | 98 | 42 | - | - | - | - | - | - |
| Softshell | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

Table 9. Annual Summary of Recreational Interview Data; Pigeon Point, Coos Bay

| | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|---------------------|-------|-------|------|-------|-------|-------|------|------|-------|------|------|------|------|------|------|
| No. Diggers Sampled | 111 | 43 | 10 | 68 | 64 | 24 | 59 | 37 | 44 | - | - | 18 | - | - | - |
| No. Clams Sampled | 1,681 | 679 | 190 | 1,160 | 1,003 | 444 | 927 | 485 | 700 | - | - | 163 | - | - | - |
| No. Digger Hours | 95 | 70 | 19 | 145 | 119 | 42 | 105 | 67 | 78 | - | - | 24 | - | - | - |
| Hours per Trip | 0.9 | 1.6 | 1.9 | 2.1 | 1.9 | 1.8 | 1.8 | 1.8 | 1.8 | - | - | 1.3 | - | - | - |
| Clams per Trip | 15.1 | 15.8 | 19.0 | 17.1 | 15.7 | 18.5 | 15.7 | 13.1 | 15.9 | - | - | 9.0 | - | - | - |
| Clams per Hour | 17.7 | 9.7 | 10.0 | 8.0 | 8.4 | 10.6 | 8.9 | 7.3 | 9.0 | - | - | 6.8 | - | - | - |
| Digger Origin (%) | | | | | | | | | | | | | | | |
| Local | 45.9 | 65.1 | 20.0 | 51.5 | 32.8 | 41.7 | 23.7 | 40.5 | 43.2 | - | - | 35.3 | - | - | - |
| State | 48.6 | 27.9 | 60.0 | 41.2 | 51.6 | 58.3 | 61.0 | 51.4 | 20.5 | - | - | 52.9 | - | - | - |
| Non-State | 5.4 | 7.0 | 20.0 | 7.4 | 15.6 | - | 15.3 | 8.1 | 36.4 | - | - | 11.8 | - | - | - |
| Species Comp. (%) | | | | | | | | | | | | | | | |
| Butter | 27.1 | 36.4 | 47.9 | 56.5 | 48.6 | 44.8 | 40.5 | 37.7 | 57.7 | - | - | 37.4 | - | - | - |
| Cockle | 0.7 | 8.0 | 2.1 | 1.3 | 6.0 | - | 4.5 | - | - | - | - | 5.5 | - | - | - |
| Gaper | 51.2 | 32.7 | 10.0 | 17.2 | 11.1 | 15.3 | 3.0 | 23.9 | 15.5 | - | - | 3.1 | - | - | - |
| Littleneck | 20.9 | 22.5 | 39.5 | 24.1 | 33.3 | 32.9 | 51.9 | 37.5 | 26.9 | - | - | 52.8 | - | - | - |
| Softshell | - | 0.6 | - | 0.8 | - | 0.7 | - | - | - | - | - | - | - | - | - |
| Clams per Trip | | | | | | | | | | | | | | | |
| Butter | 4.1 | 5.4 | 9.1 | 9.6 | 7.6 | 8.3 | 6.4 | 4.9 | 9.2 | - | - | 3.4 | - | - | - |
| Cockle | 0.1 | 1.3 | 0.4 | 0.2 | 0.9 | - | 0.7 | - | - | - | - | 0.5 | - | - | - |
| Gaper | 7.7 | 5.2 | 1.9 | 2.9 | 1.7 | 2.8 | 0.5 | 3.1 | 2.5 | - | - | 0.3 | - | - | - |
| Littleneck | 3.2 | 3.6 | 7.5 | 4.1 | 5.2 | 6.1 | 8.1 | 4.9 | 4.3 | - | - | 4.8 | - | - | - |
| Softshell | - | 0.1 | - | 0.1 | - | 0.1 | - | - | - | - | - | - | - | - | - |
| Clams per Hour | | | | | | | | | | | | | | | |
| Butter | 4.8 | 3.5 | 4.8 | 4.5 | 4.1 | 4.7 | 3.6 | 2.8 | 5.2 | - | - | 2.5 | - | - | - |
| Cockle | 0.1 | 0.8 | 0.2 | 0.1 | 0.5 | - | 0.4 | - | - | - | - | 0.4 | - | - | - |
| Gaper | 9.1 | 3.2 | 1.0 | 1.4 | 0.9 | 1.6 | 0.3 | 1.7 | 1.4 | - | - | 0.2 | - | - | - |
| Littleneck | 3.7 | 2.2 | 3.9 | 1.9 | 2.8 | 3.5 | 4.6 | 2.7 | 2.4 | - | - | 3.6 | - | - | - |
| Softshell | - | 0.1 | - | 0.1 | - | 0.1 | - | - | - | - | - | - | - | - | - |
| Size Comp. (x size) | | | | | | | | | | | | | | | |
| Butter | 85.9 | 84.8 | 84.3 | 84.0 | 87.2 | 81.0 | 76.0 | 81.1 | 74.1 | - | - | - | - | - | - |
| Cockle | 37.9 | - | 40.0 | - | - | - | - | - | - | - | - | - | - | - | - |
| Gaper | 108.0 | 104.5 | 85.3 | 107.9 | 102.6 | 109.5 | 92.1 | 84.7 | 109.1 | - | - | - | - | - | - |
| Littleneck | 67.2 | 62.0 | 60.6 | 63.3 | 54.6 | 58.6 | 57.2 | 60.2 | 57.6 | - | - | - | - | - | - |
| Softshell | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| No. Clams Measured | | | | | | | | | | | | | | | |
| Butter | 44 | 93 | 51 | 145 | 186 | 108 | 214 | 123 | 291 | - | - | - | - | - | - |
| Cockle | 7 | - | 4 | - | - | - | - | - | - | - | - | - | - | - | - |
| Gaper | 46 | 52 | 19 | 15 | 82 | 20 | 42 | 86 | 128 | - | - | - | - | - | - |
| Littleneck | 9 | 50 | 74 | 22 | 172 | 29 | 234 | 102 | 119 | - | - | - | - | - | - |
| Softshell | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

Table 10. Peak Counts of Clam Diggers*

| Estuary | Tideflat | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|-----------|---------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Tillamook | Garibaldi Flat | 300 | 460 | 516 | 487 | 350 | 118 | 380 | 400 | 257 | 547 | 585 | 127 | - | 482 | 500 | 450 | 472 | - |
| Netarts | Happy Camp | 160 | 425 | 500 | 478 | 200 | 191 | 314 | 265 | 116 | 163 | 126 | - | - | 150 | 30 | 55 | - | - |
| Yaquina | Bridge Bed | 84 | 225 | 625 | 275 | 84 | 107 | 204 | 225 | 110 | 235 | 158 | 176 | - | 61 | 22 | 86 | 229 | - |
| Alsea | North Bank | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 32 | 75 | 24 |
| | Seawall | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 99 | 53 | 32 |
| Umpqua | Smith River Bridge | - | - | - | - | - | - | - | - | - | - | - | - | - | 23 | - | - | - | - |
| | Umpqua Triangle | - | - | - | - | - | - | - | - | - | - | - | 43 | - | 31 | - | - | - | - |
| Coos Bay | Charleston Triangle | - | - | - | 31 | 24 | 41 | 39 | 87 | 82 | 59 | 66 | 36 | - | - | 44 | - | - | - |
| | Charleston Flat | - | - | - | 64 | 30 | 26 | 27 | 66 | 103 | 54 | 84 | 65 | - | - | 34 | - | - | - |
| | Pigeon Point | - | - | - | 62 | 50 | 42 | 67 | 97 | 52 | 51 | 74 | 44 | - | - | 7 | - | - | - |

* Number of clam diggers actually on tideflat at time of count. Count occurred at or near low tide.

Table 11. Annual Summary of Recreational Interview Data; All Estuaries Combined

| | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|------|
| # Diggers Sampled | 1,603 | 1,284 | 1,276 | 870 | 1,506 | 1,800 | 898 | 1,392 | 1,508 | 1,324 | 1,549 | 1,363 | 1,131 | - | 3,137 | 4,090 | 4,710 | 1,902 | 97 |
| # Clams Sampled | 24,69 | 21,60 | 19,61 | 12,92 | 22,18 | 33,91 | 14,61 | 24,69 | 25,31 | 21,98 | 26,70 | 22,84 | 19,05 | - | 58,06 | 79,97 | 87,71 | 25,26 | 410 |
| # Digger Hours | 1,986 | 1,718 | 1,606 | 1,104 | 2,113 | 2,589 | 1,303 | 2,128 | 2,154 | 1,876 | 2,259 | 2,029 | 1,662 | - | 2,859 | 3,525 | 4,571 | 1,893 | 114 |
| Hours per Trip | 1.2 | 1.3 | 1.3 | 1.3 | 1.4 | 1.4 | 1.5 | 1.5 | 1.4 | 1.4 | 1.5 | 1.5 | 1.5 | - | 0.91 | 0.86 | 0.97 | 1.0 | 1.2 |
| Clams per Trip | 15.4 | 16.8 | 15.4 | 14.9 | 14.7 | 18.8 | 16.3 | 17.7 | 16.8 | 16.6 | 17.2 | 16.8 | 16.9 | - | 18.50 | 19.60 | 18.60 | 13.3 | 4.2 |
| Clams per Hour | 12.4 | 12.6 | 12.2 | 11.7 | 10.5 | 13.1 | 11.2 | 11.6 | 11.8 | 11.7 | 11.8 | 11.3 | 11.5 | - | 20.30 | 22.70 | 19.20 | 13.4 | 6.5 |
| Digger Origin (%) | | | | | | | | | | | | | | | | | | | |
| Local | 29.3 | 22.9 | 30.6 | 40.5 | 33.6 | 42.7 | 37.8 | 36.9 | 35.6 | 33.2 | 32.6 | 31.3 | 41.1 | - | 38.7 | 30.3 | 36.0 | 40.1 | 50.0 |
| State | 63.8 | 70.5 | 60.0 | 54.0 | 60.7 | 52.7 | 53.7 | 56.7 | 53.4 | 56.7 | 58.2 | 62.7 | 45.6 | - | 54.3 | 64.2 | 53.1 | 54.6 | 50.0 |
| Non-State | 7.0 | 6.6 | 9.4 | 5.5 | 5.7 | 4.7 | 8.6 | 6.4 | 10.9 | 10.1 | 9.2 | 5.9 | 13.3 | - | 7.0 | 5.5 | 10.9 | 3.8 | - |
| Species Comp. (%) | | | | | | | | | | | | | | | | | | | |
| Butter | 8.5 | 12.8 | 15.8 | 16.2 | 9.9 | 7.8 | 10.6 | 13.3 | 15.3 | 16.5 | 19.4 | 22.7 | 10.3 | - | 26.6 | 15.6 | 16.0 | 17.2 | - |
| Cockle | 53.1 | 44.3 | 29.3 | 31.3 | 31.2 | 22.7 | 32.2 | 40.7 | 41.7 | 37.7 | 26.8 | 30.4 | 28.9 | - | 45.7 | 52.2 | 62.0 | 46.7 | 0.1 |
| Gaper | 25.1 | 17.9 | 24.9 | 31.8 | 35.6 | 26.1 | 23.6 | 20.8 | 24.0 | 20.0 | 19.8 | 23.6 | 24.2 | - | 7.8 | 4.3 | 6.3 | 24.0 | 59.3 |
| Littleneck | 6.5 | 7.5 | 9.9 | 8.1 | 7.8 | 6.2 | 5.0 | 6.7 | 5.2 | 14.1 | 11.9 | 8.7 | 18.5 | - | 16.9 | 20.1 | 14.7 | 10.8 | 40.2 |
| Softshell | 6.7 | 17.5 | 20.1 | 12.5 | 15.4 | 37.2 | 28.7 | 17.1 | 12.4 | 9.3 | 20.9 | 12.4 | 18.2 | - | 2.9 | 7.8 | 1.0 | 1.3 | - |
| Clams per Trip | | | | | | | | | | | | | | | | | | | |
| Butter | 1.3 | 2.2 | 2.4 | 2.4 | 1.4 | 1.5 | 1.7 | 2.4 | 2.6 | 2.7 | 3.4 | 3.8 | 1.7 | - | 4.9 | 3.1 | 3.0 | 2.3 | - |
| Cockle | 8.1 | 7.4 | 4.5 | 4.6 | 4.5 | 4.3 | 5.1 | 7.2 | 7.0 | 6.3 | 4.6 | 5.1 | 4.8 | - | 8.5 | 10.2 | 11.6 | 6.2 | 0.1 |
| Gaper | 3.8 | 3.0 | 3.8 | 4.7 | 5.1 | 4.9 | 3.8 | 3.7 | 4.0 | 3.3 | 3.4 | 4.0 | 4.0 | - | 1.4 | 0.8 | 1.2 | 3.2 | 2.5 |
| Littleneck | 1.0 | 1.3 | 1.5 | 1.2 | 1.1 | 1.2 | 0.8 | 1.2 | 0.9 | 2.3 | 2.0 | 1.5 | 3.1 | - | 3.1 | 3.9 | 2.7 | 1.4 | 1.7 |
| Softshell | 1.0 | 2.9 | 3.1 | 1.9 | 2.2 | 6.9 | 4.6 | 3.0 | 2.1 | 1.5 | 3.6 | 2.1 | 3.0 | - | 0.5 | 1.5 | 0.1 | 0.2 | - |
| Clams per Hour | | | | | | | | | | | | | | | | | | | |
| Butter | 1.0 | 1.6 | 1.9 | 1.9 | 1.0 | 1.0 | 1.2 | 1.5 | 1.8 | 1.9 | 2.3 | 2.6 | 1.2 | - | 5.4 | 3.5 | 3.1 | 2.3 | - |
| Cockle | 6.5 | 5.6 | 3.6 | 3.6 | 3.2 | 3.0 | 3.5 | 4.7 | 4.9 | 4.4 | 3.2 | 3.4 | 3.3 | - | 9.3 | 11.8 | 11.9 | 6.2 | 1.8 |
| Gaper | 3.1 | 2.2 | 3.0 | 3.7 | 3.6 | 3.4 | 2.6 | 2.4 | 2.8 | 2.3 | 2.3 | 2.7 | 2.7 | - | 1.6 | 1.0 | 1.2 | 3.2 | 2.1 |
| Littleneck | 0.3 | 0.9 | 1.2 | 1.0 | 0.8 | 0.8 | 0.5 | 0.8 | 0.6 | 1.7 | 1.4 | 1.0 | 2.1 | - | 3.4 | 4.6 | 2.8 | 1.4 | 1.4 |
| Softshell | 0.8 | 2.2 | 2.4 | 1.5 | 1.6 | 4.8 | 3.2 | 2.0 | 1.5 | 1.1 | 2.5 | 1.4 | 2.1 | - | 0.6 | 1.8 | 0.1 | 0.2 | - |
| Size Comp. (x size) | | | | | | | | | | | | | | | | | | | |
| Butter | 78.9 | 69.2 | 78.1 | 75.1 | 71.0 | 79.5 | 76.5 | 79.8 | 83.0 | 83.9 | 78.5 | 78.5 | 81.6 | - | - | - | - | - | - |
| Cockle | 63.1 | 60.2 | 55.3 | 63.2 | 60.8 | 62.0 | 64.2 | 63.3 | 61.9 | 63.9 | 63.5 | 61.4 | 63.0 | - | - | - | - | - | - |
| Gaper | 93.0 | 98.0 | 104.3 | 101.4 | 103.6 | 104.2 | 108.0 | 111.6 | 107.9 | 110.3 | 110.4 | 113.7 | 120.0 | - | - | - | - | - | - |
| Littleneck | 47.0 | 39.8 | 44.2 | 40.2 | 41.4 | 50.1 | 66.5 | 47.7 | 53.2 | 52.0 | 51.8 | 53.4 | 46.3 | - | - | - | - | - | - |
| Softshell | 89.5 | 86.4 | 88.2 | 81.8 | 87.7 | 86.0 | 88.4 | 91.0 | 92.7 | 87.9 | 87.5 | 89.6 | 89.0 | - | - | - | - | - | - |
| # Clams Measured | 8,643 | 6,661 | 5,372 | 4,044 | 6,774 | 5,152 | 7,438 | 6,997 | 6,403 | 5,990 | 6,853 | 5,448 | 6,781 | - | - | - | - | - | - |

Table 12. Oregon Commercial Clam Harvest in Pounds; 1970-1997

| Year | Harvest (lb) | # Diggers | # Landings | Ave. lb/Landing | # Permits Issued |
|------|--------------|-----------|------------|-----------------|------------------|
| 1970 | 25,884 | 40 | 258 | 100.3 | 0 |
| 1971 | 28,526 | 50 | 230 | 124.0 | 0 |
| 1972 | 61,523 | 37 | 354 | 174.8 | 0 |
| 1973 | 17,156 | 19 | 187 | 91.7 | 0 |
| 1974 | 16,315 | 23 | 182 | 39.6 | 0 |
| 1975 | 25,908 | 19 | 116 | 227.3 | 0 |
| 1976 | 88,054 | 7 | 97 | 946.8 | 0 |
| 1977 | 85,733 | 29 | 155 | 304.0 | 0 |
| 1978 | 216,926 | 15 | 218 | 943.2 | 0 |
| 1979 | 94,912 | 19 | 128 | 741.5 | 0 |
| 1980 | 80,467 | 36 | 176 | 442.1 | 0 |
| 1981 | 81,138 | 30 | 336 | 222.5 | 0 |
| 1982 | 134,105 | 46 | 538 | 245.3 | 0 |
| 1983 | 136,185 | 41 | 811 | 168.0 | 0 |
| 1984 | 120,574 | 30 | 704 | 171.3 | 0 |
| 1985 | 99,254 | 44 | 614 | 161.7 | 65 |
| 1986 | 82,829 | 36 | 664 | 124.7 | 65 |
| 1987 | 46,283 | 34 | 385 | 120.2 | 121 |
| 1988 | 44,696 | 28 | 258 | 173.2 | 136 |
| 1989 | 60,482 | 24 | 221 | 273.7 | 111 |
| 1990 | 72,756 | 38 | 384 | 189.5 | 92 |
| 1991 | 87,842 | 40 | 473 | 185.7 | 126 |
| 1992 | 62,044 | 29 | 410 | 151.3 | 115 |
| 1993 | 127,730 | 38 | 733 | 174.3 | 111 |
| 1994 | 180,934 | 32 | 422 | 428.8 | 113 |
| 1995 | 126,967 | 24 | 393 | 323.1 | 132 |
| 1996 | 66,733 | 21 | 450 | 148.3 | 33 |
| 1997 | 75,681 | 10 | 288 | 262.8 | 21 |

**Table 13. Summary of Pounds of Bay Clams Reported
Commercially Harvested in Oregon by Species; 1970-1997**

| Year | Butter | Cockle | Gaper | Littleneck | Softshell | Macoma | Total |
|------|--------|---------|---------|------------|-----------|--------|---------|
| 1970 | 885 | 12,257 | 1,218 | 863 | 10,661 | 0 | 25,884 |
| 1971 | 217 | 9,391 | 10,345 | 639 | 7,714 | 220 | 28,526 |
| 1972 | 52 | 7,269 | 34,006 | 1,406 | 18,772 | 0 | 61,505 |
| 1973 | 95 | 5,756 | 185 | 9,771 | 1,349 | 0 | 17,156 |
| 1974 | 412 | 6,073 | 0 | 8,987 | 843 | 0 | 16,315 |
| 1975 | 0 | 6,855 | 15,024 | 4,311 | 360 | 0 | 26,550 |
| 1976 | 816 | 322 | 85,831 | 455 | 630 | 0 | 88,054 |
| 1977 | 607 | 859 | 81,775 | 232 | 1,366 | 894 | 85,733 |
| 1978 | 1,452 | 6,717 | 207,685 | 1,056 | 52 | 0 | 216,962 |
| 1979 | 606 | 2,299 | 91,028 | 0 | 979 | 0 | 94,912 |
| 1980 | 40 | 2,244 | 74,459 | 4,268 | 456 | 0 | 81,467 |
| 1981 | 2,409 | 4,580 | 68,508 | 4,892 | 749 | 0 | 81,138 |
| 1982 | 3,654 | 10,517 | 106,440 | 13,231 | 248 | 0 | 134,090 |
| 1983 | 4,035 | 2,579 | 95,091 | 34,444 | 36 | 0 | 136,185 |
| 1984 | 4,842 | 17,912 | 50,573 | 46,874 | 366 | 0 | 120,567 |
| 1985 | 1,646 | 29,412 | 20,121 | 46,266 | 1,809 | 0 | 99,254 |
| 1986 | 2,862 | 31,681 | 17,021 | 27,487 | 3,558 | 0 | 82,609 |
| 1987 | 3,046 | 20,202 | 6,368 | 14,140 | 2,527 | 0 | 46,283 |
| 1988 | 2,492 | 30,068 | 3,816 | 6,884 | 1,436 | 0 | 44,696 |
| 1989 | 3,806 | 44,344 | 5,164 | 6,032 | 1,136 | 0 | 60,482 |
| 1990 | 4,604 | 45,607 | 10,391 | 7,521 | 4,633 | 0 | 72,756 |
| 1991 | 3,690 | 58,282 | 8,660 | 8,708 | 9,215 | 0 | 87,842 |
| 1992 | 475 | 35,800 | 8,609 | 10,980 | 6,180 | 0 | 62,044 |
| 1993 | 6,382 | 72,340 | 4,169 | 35,913 | 7,312 | 0 | 127,730 |
| 1994 | 1,961 | 163,295 | 2,146 | 6,084 | 7,448 | 0 | 180,934 |
| 1995 | 7,852 | 97,324 | 12,677 | 9,008 | 106 | 0 | 126,967 |
| 1996 | 1,414 | 57,197 | 3,459 | 4,472 | 191 | 0 | 66,733 |
| 1997 | 13,060 | 48,210 | 4,283 | 9,389 | 739 | 0 | 75,681 |

Table 14. Summary of Pounds of Bay Clams Reported Commercially Harvested in Major Oregon Estuaries; 1970-1997

| Year | Nehalem | Tillamook | Netarts | Yaquina | Alsea | Siuslaw | Umpqua | Coos | Coquille | Total |
|------|---------|-----------|---------|---------|-------|---------|--------|---------|----------|---------|
| 1970 | 258 | 7,819 | 2,210 | 444 | 0 | 0 | 10,631 | 4,522 | 0 | 25,884 |
| 1971 | 589 | 6,168 | 1,598 | 1,819 | 0 | 0 | 7,459 | 10,893 | 0 | 28,526 |
| 1972 | 80 | 9,637 | 914 | 57 | 70 | 0 | 6,105 | 44,642 | 0 | 61,505 |
| 1973 | 329 | 11,997 | 1,191 | 0 | 0 | 0 | 786 | 2,853 | 0 | 17,156 |
| 1974 | 882 | 9,309 | 2,049 | 398 | 0 | 0 | 445 | 3,232 | 0 | 16,315 |
| 1975 | 0 | 4,637 | 0 | 0 | 13 | 0 | 309 | 21,553 | 38 | 26,550 |
| 1976 | 0 | 998 | 0 | 0 | 480 | 0 | 0 | 86,576 | 0 | 88,054 |
| 1977 | 0 | 2,619 | 0 | 71,013 | 0 | 0 | 35 | 12,066 | 0 | 85,733 |
| 1978 | 0 | 3,111 | 0 | 172,047 | 0 | 0 | 0 | 41,804 | 0 | 216,962 |
| 1979 | 174 | 433 | 0 | 74,565 | 0 | 3,432 | 0 | 16,308 | 0 | 94,912 |
| 1980 | 373 | 5,320 | 486 | 244 | 0 | 9,109 | 0 | 65,935 | 0 | 81,467 |
| 1981 | 65 | 4,259 | 0 | 128 | 0 | 684 | 0 | 76,002 | 0 | 81,138 |
| 1982 | 10,862 | 11,501 | 37 | 15 | 0 | 223 | 25 | 111,427 | 0 | 134,090 |
| 1983 | 31,856 | 3,144 | 200 | 5,253 | 0 | 15 | 0 | 95,717 | 0 | 136,185 |
| 1984 | 23,069 | 42,663 | 0 | 22 | 0 | 50 | 0 | 54,763 | 0 | 120,567 |
| 1985 | 40,349 | 34,148 | 240 | 0 | 0 | 895 | 268 | 23,030 | 324 | 99,254 |
| 1986 | 30,545 | 28,737 | 480 | 6 | 0 | 1,206 | 0 | 19,557 | 2,078 | 82,609 |
| 1987 | 10,723 | 22,936 | 0 | 1,114 | 250 | 654 | 0 | 10,214 | 392 | 46,283 |
| 1988 | 0 | 34,450 | 0 | 1,153 | 230 | 1,200 | 28 | 7,086 | 549 | 44,696 |
| 1989 | 80 | 49,650 | 0 | 2,790 | 993 | 600 | 150 | 6,183 | 36 | 60,482 |
| 1990 | 5,810 | 47,198 | 0 | 1,543 | 410 | 0 | 3,432 | 14,363 | 0 | 72,756 |
| 1991 | 6,331 | 50,860 | 7,451 | 1,013 | 530 | 120 | 8,322 | 12,501 | 60 | 87,842 |
| 1992 | 4,597 | 35,935 | 879 | 7,067 | 1,398 | 0 | 6,095 | 5,986 | 87 | 62,044 |
| 1993 | 31,966 | 76,103 | 54 | 2,843 | 1,495 | 93 | 7,105 | 5,698 | 0 | 127,730 |
| 1994 | 5,533 | 149,494 | 422 | 2,413 | 3,441 | 0 | 7,403 | 12,042 | 25 | 180,934 |
| 1995 | 9,143 | 103,702 | 4,612 | 5,593 | 3,737 | | 120 | 60 | 0 | 126,967 |
| 1996 | 1,276 | 63,039 | 748 | 1,457 | 0 | 0 | 163 | 50 | 0 | 66,733 |
| 1997 | 4,837 | 69,604 | - | - | - | - | 367 | 668 | 205 | 75,681 |