# Catch and Effort Statistics of the Canadian Groundfish Fishery on the Pacific Coast in 1993

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## TABLE OF CONTENTS

| Friend, K. L. 1996. Catch and effort statistics of the Canadian groundfish fishery on the Pacific coast in 1993. Can. Tech. Rep. Fish. Aquat. Sci. 2097: 97 p. | PAGE                 |
|--|----------------------|
| INTRODUCTION   | 1                    |
| MAJOR STATISTICAL AREA DIVISIONS   |                      |
| MINOR STATISTICAL AREA DIVISIONS   | 10                   |
| DOMESTIC TRAWL FISHERY Species of fish landed Tables of annual catch Tables of monthly catch by major area Tables of monthly catch by minor area               | 14<br>17<br>20<br>41 |
| OTHER GROUNDFISH FISHERIES   | 79                   |
| Tables of annual trap catch  JOINT-VENTURE/FOREIGN FISHERIES   |                      |
| CATCHES BY NPAFC AREA  | 92                   |
| ERRATA   | 96                   |

#### ABSTRACT

Rutherford, K. L. 1996. Catch and effort statistics of the Canadian groundfish fishery on the Pacific coast in 1993. Can. Tech. Rep. Fish. Aquat. Sci. 2097: 97 p.

Catch and effort statistics for the Canadian groundfish fishery (excluding halibut) on the Pacific coast in 1993 are presented. Statistics are shown by major areas, minor areas, and North Pacific Anadromous Fisheries Commission (formerly International North Pacific Fisheries Commission) areas in metric tonnes (t). Total domestic landings in 1993 were 83,109 t, 10% below the total for 1992. Most of the catch was taken by trawl gear. The main species landed were Pacific hake, Pacific cod, pollock, lingcod, sablefish, yellowtail rockfish, and Pacific ocean perch.

Joint venture fisheries along Canada's west coast caught 46,373 t of Pacific hake in 1993.

Key words: groundfish, Pacific coast, catch statistics, effort statistics

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#### RÉSUMÉ

Rutherford, K. L. 1996. Catch and effort statistics of the Canadian groundfish fishery on the Pacific coast in 1993. Can. Tech. Rep. Fish. Aquat. Sci. 2097: 97 p.

Le rapport présente des statistiques sur les prises et l'effort dans la pêche canadienne du poisson de fond (flétan excepté) sur la côte pacifique en 1993. Les chiffres sont donnés pars grandes zones, zones secondaires et zones de la Commission internationale des pêcheries du Pacifique nord, en tonnes métriques (t). Les débarquements camadiens de 1993 totalisaient 83 109 t, soit 10 % de moins que le total de 1992. La plus grande partie des prises avait été faite au chalut. Les principales espèces débarquées étaient le merlu de Pacifique, la morue du Pacifique, la morue du Pacifique occidental, la morue-lingue, la morue charbonnière, le sébaste à queue jaune et le sébaste à longue mâchoire.

Sur la côte ouest du Canada, les coentreprises ont capturé en 1993 46 373 t.

Mote clés : poisson de fond, côte pacifique, statistiques sur les prises, statistiques sur l'effort.

#### INTRODUCTION

The Canadian fishery for groundfish along Canada's west coast involves many species of demersal fishes, the majority of which are caught by bottom and midwater trawls. The remaining catch is taken by trap, longline, handline, and troll. Excluding halibut, these domestic groundfish landings contributed an average of 62,354 metric tonnes (t) to the annual fish production of Canada during 1983-92. The total landings of major groundfish species, caught by all types of gear from all areas on the Pacific coast during 1983-93 are shown in Table 1. Figure 1 illustrates total groundfish landings from 1983-93.

The Biological Sciences Branch, Pacific Biological Station, Nanaimo, B.C., maintained port liaison officers at Vancouver, Steveston, and Prince Rupert during 1993. These persons conducted interviews with captains of trawl and trap vessels to collect information on effort expended for groundfish catches, by species, area and depth as well as other pertinent data. The landings not covered by these interviews were obtained from the sales slips collected by the Statistics Division of the Fisheries Branch in Vancouver. All available 1993 data are included in this report. While changes are rare, individuals using these data for analyses should refer to the author for confirmation.

Total 1993 domestic landings of 83,109 t were 33% above the 1983-92 mean and 10% below the 1992 level. Pacific ocean perch and other rockfish species were the dominant species group landed, accounting for 30% of the total catch. The single largest contributor to the total landings was Pacific hake (15,959 t) which accounted for 19% of the total catch. This was, however, a drop of 43% from the amount of hake landed in 1992. There were increases in landings of pollock (7,974 t, +133%), lingcod (5,236 t, +20%), Pacific ocean perch (4,565 t, +12%), turbot (4,020 t, +13%), dover sole (3,957 t, +43%) and English sole (1,770 t, +34%). In addition to the decrease in hake landings there were decreases in the landings of other rockfish (20,403 t, -8%), Pacific cod (8,096 t, -22%) and dogfish (722 t, -69%).

In 1993, joint-venture fisheries were conducted along the British Columbia coast by Poland and China. These fisheries caught 46,373 t of Pacific hake, 33% less than the amount taken in 1992.

This portion of the document is the traditional report of landings (t) by species, by discrete domestic (minor) fishing areas and by larger United States-Canadian (major) areas, commonly called Pacific Marine Fisheries Commission (PMFC) areas.

Table 1. Total Canadian landings<sup>a</sup> (t) of groundfish by species, taken from all areas of the Pacific Coast, 1983-1993.

|                        |        |        |        |        |        |                       |        | 77 177 |        |                   |         |        |
|------------------------|--------|--------|--------|--------|--------|-----------------------|--------|--------|--------|-------------------|---------|--------|
| Species                | 1983   | 1984   | 1985   | 1986   | 1987   | 1988                  | 1989   | 1990   | 1991   | 1992              | 1983-92 | 1993   |
| English sole           | 532    | 812    | 692    | 452    | 755    | 879                   | 1,041  | 1,266  | 1,171  | 1,319             | 892     | 1,770  |
| Rock sole              | 668    | 525    | 430    | 454    | 887    | 1,960                 | 2,066  | 2,264  | 3,414  | 3,094             | 1,576   | 3,014  |
| Petrale sole           | 439    | 417    | 336    | 416    | 445    | 790                   | 952    | 1,066  | 793    | 603               | 626     | 579    |
| Dover sole             | 871    | 1,148  | 963    | 1,167  | 633    | 1,281                 | 2,149  | 2,382  | 2,217  | 2,763             | 1,557   | 3,957  |
| Rex sole               | 49     | 219    | 205    | 87     | 83     | 145                   | 140    | 134    | 59     | 93                | 121     | 240    |
| Starry flounder        | 66     | 170    | 66     | 54     | 65     | 110                   | 123    | 143    | 146    | 145               | 109     | 105    |
| Turbot                 | 323    | 369    | 764    | 895    | 1,193  | 375                   | 609    | 2,635  | 2,286  | 3,573             | 1,302   | 4,020  |
| Other flatfish         | 199    | 141    | 161    | 215    | 232    | 147                   | 50     | 51     | 87     | 225               | 151     | 252    |
| Pacific cod            | 4,505  | 3,465  | 2,342  | 3,650  | 13,917 | 11,015                | 9,149  | 6,463  | 11,914 | 10,321            | 7,674   | 8,096  |
| Lingcod                | 3,755  | 3,688  | 5,668  | 3,827  | 3,591  | 3,462                 | 3,980  | 5,219  | 5,385  | 4,370             | 4,295   | 5,236  |
| Sablefish <sup>b</sup> | 4,414  | 3,855  | 4,275  | 4,668  | 4,719  | 5,563                 | 5,493  | 5,038  | 5,531  | 5,008             | 4,856   | 5,108  |
| Pollock                | 1070   | 800    | 1,895  | 577    | 1,270  | 1,111                 | 443    | 939    | 2,597  | 3,426             | 1,413   | 7,974  |
| Hake                   | 3,122  | 4,600  | 6,055  | 6,802  | 13,275 | 6,054                 | 8,682  | 10,609 | 23,175 | 27,956            | 11,033  | 15,959 |
| Ocean perch            | 5,655  | 6,698  | 6,069  | 5,914  | 6,335  | 6,929                 | 6,004  | 5,761  | 4,331  | 4,056             | 5,775   | 4,565  |
| Other rockfish         | 7,024  | 8,512  | 11,709 | 19,040 | 18,177 | 20,399                | 18,437 | 22,885 | 19,428 | 22,248            | 16,786  | 20,403 |
| Misc. species          | 156    | 175    | 192    | 245    | 344    | 353                   | 172    | 122    | 143    | 203               | 211     | 190    |
| Hagfish                | -      | 0 51.  | 8 8    | 2 3.0  | 003    | 66                    | 829    | 213    | 23     | 60                | 119     | 8 .    |
| Dogfish                | 3,274  | 2,510  | 2,815  | 3,289  | 3,801  | 5,483                 | 2,780  | 4,194  | 3,126  | 2,335             | 3,361   | 722    |
| Animal food            | 94     | 161    | 309    | 255    | 188    | 130                   | 127    | 17     | tr.    | tr.               | 128     | 149    |
| Reduction              | 321    | 244    | 214    | 175    | 210    | 581                   | 353    | 210    | 380    | 1,003             | 369     | 770    |
| Total                  | 36,537 | 38,509 | 45,160 | 52,182 | 70,120 | 66,833                | 63,579 | 71,611 | 86,206 | 92,801            | 62,354  | 83,109 |
|                        |        |        | 10 20  |        |        | and a larger contract |        |        | AA D I | Sept. Street Car. |         |        |

<sup>&</sup>lt;sup>a</sup> Does not include catches from joint-venture fisheries, see Table 56.

<sup>&</sup>lt;sup>b</sup> Sablefish catches from 1992 - 1994 do not include catches for special permit fisheries to offshore seamounts. This amounted to an additional 325 t in 1992, and 52 t in 1993. Previous years may include trips to offshore seamounts.

# Total domestic Canadian groundfish landings, 1983-1993

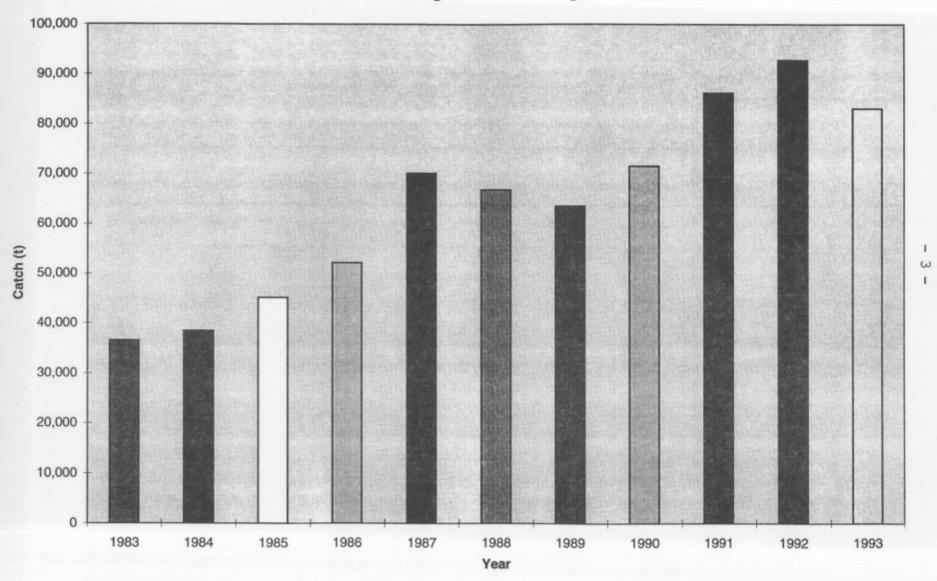
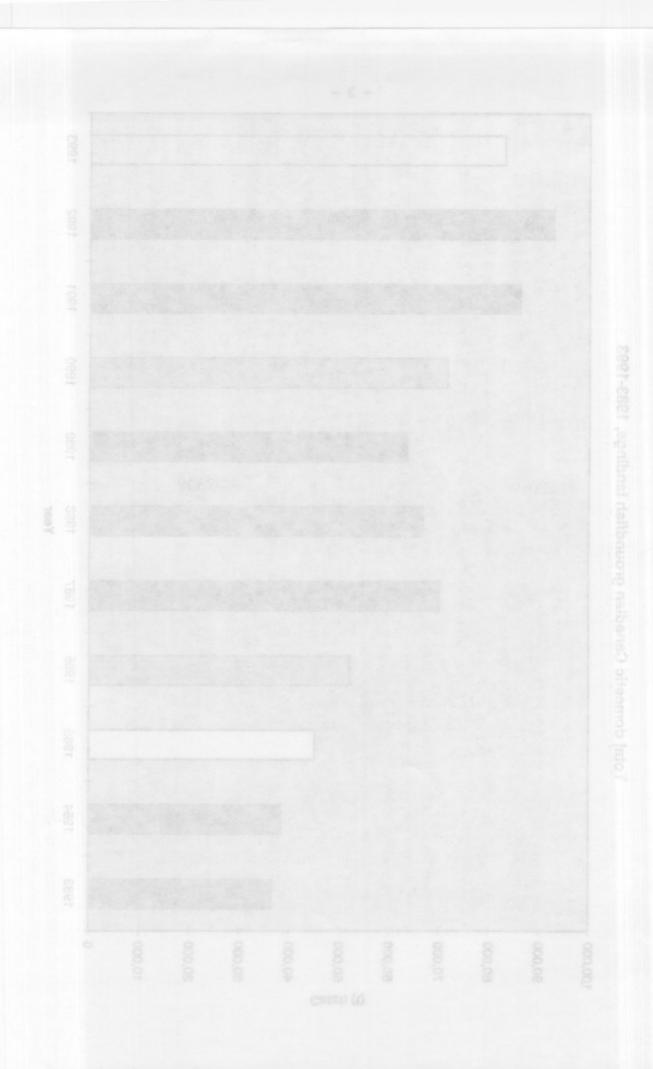


Figure 1.



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#### MAJOR STATISTICAL AREA DIVISIONS

Standardization between Canada and the United States in reporting of groundfish catches on the Pacific coast has resulted in assignment of catches to certain major statistical areas. In the United States these international areas are used by the Pacific Marine Fisheries Commission in their annual summaries of catch statistics. Figure 2 illustrates the major statistical areas off the British Columbia coast and gives their numerical designation. The following is a complete description of the boundaries of these areas.

#### AREA 3B--NORTHWEST WASHINGTON COAST

From latitude 47°20'N to a line bearing 220° True from the mid-point of the Bonilla-Tatoosh line and crossing said parallel of latitude. This area includes the Quillayute and Umatilla Reef grounds and the shallow waters off Cape Flattery.

#### AREA 3C--SOUTHWEST COAST VANCOUVER ISLAND

From the northern boundary of Area 3B to a line bearing 200° True from Estevan Point southward to the 49° parallel of latitude, thence westward along said parallel. This area includes the Cape Flattery Spit, the Swiftsure Bank, La Pérouse Bank (Big Bank or 40 mile Bank), the Cabbage Patch, the Firing Range, the Lennard Island and Sydney Inlet grounds, and the inshore waters of Barkley Sound.

#### AREA 3D--NORTHWEST COAST VANCOUVER ISLAND

From the northern boundary of Area 3C to latitude 50°30'N. This area includes the Nootka, Esperanza, and Kyuquot grounds as well as the Estevan deep ground.

#### AREA 4A--PUGET SOUND

The United States territorial waters inside the Bonilla-Tatoosh line including the Juan de Fuca Strait and Puget Sound. There is no Canadian catch from this area.

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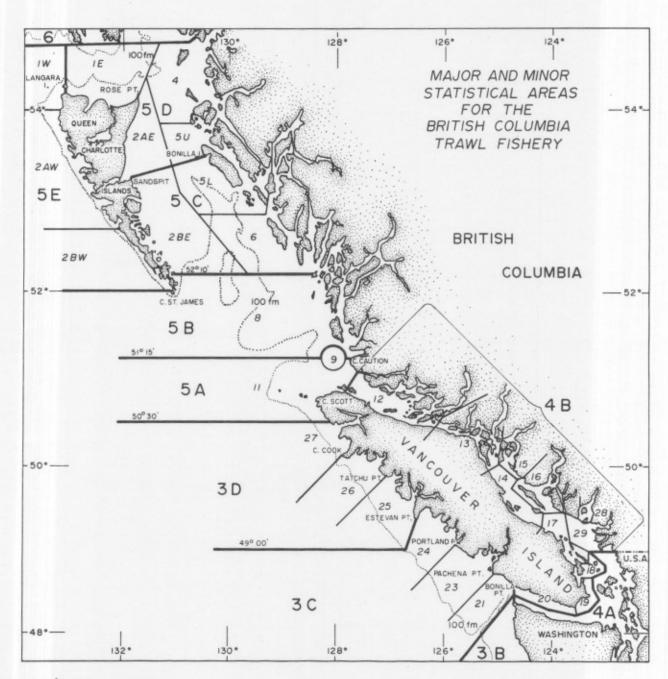


Figure 2.



FIGURE 2.

#### AREA 4B--STRAIT OF GEORGIA

The Canadian waters from the Bonilla-Tatoosh line inside to a line drawn north and south (Mag.) through Pine Island at the upper end of Queen Charlotte Strait. This area, defined simply as the Strait of Georgia, includes all Canadian inshore grounds of Juan de Fuca Strait, Johnstone and Queen Charlotte Straits, and the Strait of Georgia.

#### AREA 5A--SOUTH QUEEN CHARLOTTE SOUND

From the northern boundaries of Areas 4B and 3D to latitude 51°15'N. This area includes all grounds incorporated in the Cape Scott Bank and a portion of the grounds in the gully between the Cape Scott Bank and the Goose Island Bank. It also includes catches from the Virgin Rocks ground.

#### AREA 5B--NORTH QUEEN CHARLOTTE SOUND

From latitude 51°15'N to latitude 52°00'N on the westward side to Cape St. James and from latitude 51°15'N to latitude 52°10'N on the eastward side of Cape St. James. This area includes all grounds associated with the Goose Island Bank and the remaining portion of the grounds in the gully between the Goose Island Bank and the Cape Scott Bank.

#### AREA 5C--SOUTH HECATE STRAIT

From latitude 52°10'N to a line drawn from Spit Point (Sandspit) on Moresby Island to the southern tip of Bonilla Island. This area includes the grounds known as the Horseshoe and Ole Spot in the central region of the Strait.

#### AREA 5D--NORTH HECATE STRAIT

From the northern boundary of Area 5C to latitude 54°40'N, limited to the westward by longitude 133° W across Dixon Entrance. This area includes the Two Peaks ground (northeast of Rose Spit), the Butterworth-Warrior edge, the Fingers (southwest of Archibald Island), the Oval Hill ground, the White Rock ground (northwest of Bonilla Island), the Skidegate Inlet ground, the Fife Point ground, the southwest Seal Rocks ground, and grounds in Dixon Entrance.

#### AREA 5E--WEST COAST QUEEN CHARLOTTE ISLANDS

From latitude 52°00'N to 54°40'N, limited to the eastward by longitude 133° W across Dixon Entrance.

#### AREA 6--ALASKA

Encompasses waters bounded on the south by latitude 54°40'N and on the west by longitude 147° W.

#### MINOR STATISTICAL AREA DIVISIONS

Minor areas are used to give more detailed information on region of capture of groundfish. They are areas within major areas and are basically the former Fisheries Management statistical areas with some modifications. Figure 3 illustrates the areas, and the modifications are catalogued below:

- Minor area 101 has been divided into two minor areas, 1E and 1W. This boundary lies along longitude 133° W.
- Minor area 142 has been divided into two minor areas, 2AW and 2BW. This boundary lies along 52°40'N latitude.
- 3. The boundary between Area 102 and Area 104 has been shifted northwestward to Rose Spit. Area 4 was expanded to bring the whole of the Two Peaks and Dundas grounds within Area 4. This has meant the elimination of Areas 103 and 3xy.
- Minor area 105 has been divided into sub-areas, designated 5U and 5L. This boundary lies along the Sandspit-Bonilla Island line, which is the internationally agreed line of division between north and south Hecate Strait (Areas 5D and 5C).
- The boundary between Areas 5D and 5C has been continued through Area 102 to divide it into two minor areas, 2AE and 2BE.
- The southern boundary of Areas 102 and 106 has been shifted to lie along 52°10'N latitude to conform with the boundary between Areas 5C and 5D.
- 7. Area 8 has been expanded to include the whole of the Goose Island Bank. This had involved (a) shifting the northern boundary to 52°10'N latitude and eliminating Area 107, (b) shifting the southern boundary to 51°15' W latitude and elimination of Areas 109, and 110, and (c) the elimination of Area 130, previously used for offshore catches in Queen Charlotte Sound. There is, in this report, no westward limit to Area 8.
- 8. Area 9 has been changed and is now a circle 12 miles in diameter surrounding the Sea Otter group and the Virgin Rocks ground. It is considered to be part of Area 5A.
- 9. Area 11 has been expanded to include all of the Cape Scott Bank. This has meant the elimination of Area 111 and the addition of part of Area 127 lying northward of 50°30'N latitude. This is to conform with the boundary between Areas 5A and 3D.

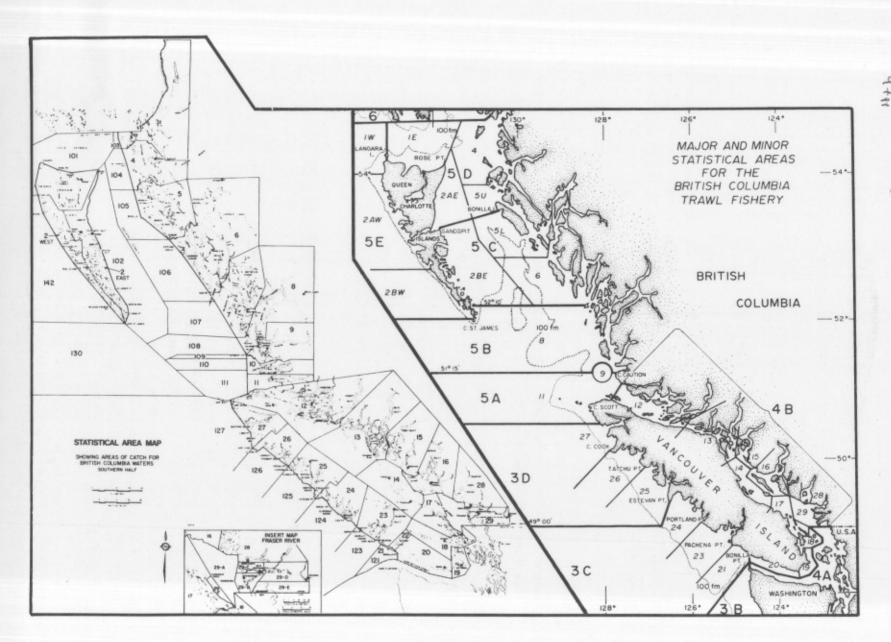


Figure 3.

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- 10. The western limit of Area 12 is now Bates Passage.
- 11. Areas 21, 23, 24, 25, 26, and 27 have been expanded to include Areas 121, 123, 124, 125, 126, and 127, respectively.
- 12. The boundary between Areas 24 and 25 has been shifted to lie along the boundary between Areas 3C and 3D.
- 13. The boundary between Areas 23 and 24 has been shifted northwards to Portland Point and it lies on a bearing 225° True. This is to bring the whole of the ground known as Firing Range (which formerly lay on the boundary between these two areas) entirely within Area 23.

All other minor areas remain the same as those defined by the Fisheries

Management Statistical Chart.

The following shows the relationship between the major and minor areas:

| Alaska                               | Southeastern, Yakutat <sup>1</sup>                      |
|--------------------------------------|---|
| E West Coast Queen Charlotte Islands | 1W, 2AW, 2BW  |
| 5D North Hecate Strait               | 1E, 2AE, 4, 5U  |
| C South Hecate Strait                | 2BE, 5L, 6  |
| B North Queen Charlotte Sound        | There were increases in landings of 8 ollo              |
| A South Queen Charlotte Sound        | (4,562 t, +13%), turbot (4,020 t, +13%), dow 11,0 (3)   |
| D Northwest Coast Vancouver Island   | 27, 26, 25  |
| C Southwest Coast Vancouver Island   | 24, 23, 21 mod angerode (8°154 à 142) fellolde          |
| BB Northwest Washington Coast        | +229%), shortralter rockfish (345 t, +43%) and "D" sole |
| B Strait of Georgia <sup>2</sup>     | 12, 13, 14, 15, 16, 17, 18, 19, 20, 28, 29              |

Southeastern - from 54°40'N to 137° W. Yakutat from 137° W to 147° W.

<sup>&</sup>lt;sup>2</sup> Including Johnstone and Queen Charlotte straits and the Canadian portion of Juan de Fuca Strait.

#### DOMESTIC TRAWL FISHERY

In 1993, catch and effort data were collected by port liaison officers (Biological Sciences Branch) and by Offshore Division (Fisheries Branch) for 97%, by weight, of the total trawl landings. Through the cooperation of the Statistics Division, Fisheries Branch, the remaining 3% of the landings were recorded from sales slips, from which no effort (hours fished) is available. Catch-per-unit-effort (CPUE) statistics obtained from the interview data were used to estimate the effort expended for the catch reported on these sales slips.

From total landed catch and total estimated effort data, an average CPUE (t/h) was calculated for each major fishing area. Also calculated was the percentage of total catch and effort expended in each of these areas. These last two statistics show relative importance of each area and are used in the calculation of the "success ratio". This parameter is defined as the percent of the total catch divided by the percent of total effort.

Total landings in 1993 (excluding dumped<sup>3</sup> and discarded<sup>4</sup> fish) by the British Columbia domestic trawl fleet were 74,366 t, 11% below the total for 1992. Effort expended increased 10% to 82,910 hours, resulting in an overall CPUE of 0.897 t/h, 19% below the 1992 rate. Midwater trawl gear accounted for 34% (24,980 t) of the total trawl catch and 8% (6,872 h) of the total trawl effort, for an overall CPUE of 3.635 t/h, 23% below the 1992 rate.

Pacific hake was the strongest contributor to the trawl fishery with landings of 15,959 t, entirely caught by midwater trawl gear. Pacific hake accounted for 21% of the total trawl landings. This was, however, a 43% decrease from the amount of hake landed in 1992. Rockfish landings were 22,980 t, and accounted for 31% of the total trawl landings.

There were increases in landings of pollock (7,974 t, +133%), Pacific ocean perch (4,562 t, +13%), turbot (4,020 t, +13%), dover sole (3,957 t, +43%), lingcod (3,758 t, +16%), rougheye rockfish (1,876 t, +14%), English sole (1,770 t, +34%), Bocaccio (1,122 t, +19%), sablefish (541 t, +21%), shortspine thornyheads (498 t, +139%), sharpchin rockfish (391 t, +229%), shortraker rockfish (345 t, +43%) and rex sole (240 t, +159%).

As well as the noted decrease in landings of Pacific hake there were decreases in landings of Pacific cod (8,092 t, -21%), widow rockfish (1,908 t, -49%), redstripe rockfish (1,901 t, -37%), canary rockfish (1,133 t, -20%), yellowmouth rockfish (1,115 t, -24%), redbanded rockfish (914 t, -11%), starry flounder (105 t, -28%) and dogfish (56t, -89%).

<sup>&</sup>lt;sup>3</sup> Fish caught and retained but eventually rejected at the plant as being unsuitable for any utilization.

Fish caught and discarded at sea by fishermen.

Annual trawl catch and effort data are shown in Tables 2-7. Landings by major area, month and species are presented in Tables 8-16. Landings by minor area, month and species are given in Tables 17-45. Due to rounding some table totals do not match exactly. Figure 4 illustrates total trawl catch (t) and total trawl effort (h) by major area.

#### AREA 4B--STRAIT OF GEORGIA

There was a 27% decrease in the amount of effort expended (5,024 h) and a 10% decrease in landings (11,680 t), resulting in an increased CPUE of 2.325 t/h. Midwater trawl gear accounted for 97% of the catch (11,336 t) from this area with Pacific hake (8,006 t), accounting for 71% of all landings, being the most abundant species. Pollock (3,221 t) was the other main species caught in this area and accounted for 28% of the landings.

#### AREA 3C--SOUTHWEST COAST OF VANCOUVER ISLAND

This area contributed 23% to the total British Columbia trawl production. There was a 9% increase in the amount of effort expended (17,861 h) and a 36% decrease in landings (17,101 t). This resulted in a decreased CPUE of 0.957 t/h. Pacific hake (7,953 t) accounted for 47% of the catch from this area, entirely caught with midwater trawl gear. This amount of hake was 54% less than in 1992. All rockfish species (2,881 t) made up 17% of the landings from this area, with yellowtail rockfish (823 t) and Pacific ocean perch (647 t) being the most abundant. Pacific cod (1,691 t), dover sole (1,516 t) and lingcod (1,476 t) were the other dominant species

#### AREA 3D--NORTHWEST COAST OF VANCOUVER ISLAND

The landings (9,983 t) for this area increased 23%, the amount of effort expended (11,566 h) increased 20% and CPUE increased to 0.863 t/h. Rockfish landings of 5,891 t, of which yellowtail rockfish (1,596 t), Pacific ocean perch (979 t) and widow rockfish (747 t) were the dominant species, accounted for 59% of the total catch. Turbot landings (1,787 t) accounted for 18% of the landings from this area.

#### AREA 5A--SOUTH QUEEN CHARLOTTE SOUND

Total landings (6,802 t) decreased 29% and total effort expended (10,675 h) increased 6%, resulting in a decreased CPUE of 0.637 t/h. Rockfish landings (4,030 t) accounted for 59% of the landings. Yellowtail rockfish (1,042 t), widow rockfish (601 t) and redstripe rockfish (547 t) were the major rockfish species caught in this area. Pacific cod (806 t) and lingcod (622 t) were the other dominant species.

#### AREA 5B--NORTH QUEEN CHARLOTTE SOUND

Total landings (8,101 t) decreased 19% and total effort expended (9,231 h) decreased 8%. This resulted in a 12% decrease in CPUE (0.878 t/h) from 1992 levels. Rockfish accounted for 59% of the landings. Pacific ocean perch (1,553 t) and yellowtail rockfish (832 t) were the dominant species. The other main species landed were turbot (1,038 t), lingcod (747 t), and Pacific cod (635 t).

#### AREA 5C--SOUTH HECATE STRAIT

The amount of effort expended (6,364 h) in this area was only 1% higher and landings (3,967 t) were 2% lower than those seen in 1992. This resulted in a 3% decrease in CPUE (0.623 t/h). Pacific cod (1,396 t) was the dominant species landed, accounting for 35% of the catch. Rock sole (605 t) and Pacific ocean perch (472 t) were the other main species landed.

#### AREA 5D--NORTH HECATE STRAIT

Total landings (12,680 t) increased 39% and total effort expended (17,892 h) increased 34%. This resulted in an increased CPUE (0.709 t/h). Pollock (4,407 t) was the dominant species landed, accounting for 35% of the catch. Pacific cod (2,567 t), rock sole (1,476 t), English sole (1,288 t) and dover sole (649 t) were the other main species caught.

#### AREA 5E--WEST COAST OF QUEEN CHARLOTTE ISLANDS

There was a 42% increase in the total landings (4,052 t) and a 46% increase in the amount of effort expended (4,297 h). This resulted in a decreased CPUE (0.943 t/h). Total rockfish landings of 3,118 t accounted for 77% of the total catch. Rougheye rockfish (1,180 t) and Pacific ocean perch (496 t) were the dominant species.

The following species were observed in trawl landings in British Columbia in 1993.

Family and common name

Scientific name<sup>5</sup>

FISHES

Acipenseridae

Green sturgeon

Acipenser medirostris Ayres

Anarhichadidae

Wolf-eel

Anarrhichthys ocellatus Ayres

Anoplopomatidae

Sablefish

Anoplopoma fimbria (Pallas)

Carangidae

Jack mackerel

Trachurus symmetricus (Ayres)

Chimaeridae

Spotted ratfish

Hydrolagus colliei (Lay & Bennett)

Clupeidae

American shad
Pacific herring
Pacific sardine

Alosa sapidissima (Wilson) Clupea pallasi Valenciennes Sardinops sagax (Jenyns)

Cottidae

Sculpins Cabezons

various species

Scorpaenichthys marmoratus (Ayres)

Embiotocidae

Pile perch

Rhacochilus vacca (Girard)

Gadidae

Pacific cod, true cod or gray cod

Pacific hake Walleye pollock Gadus macrocephalus Tilesius Merluccius productus (Ayres) Theragra chalcogramma (Pallas)

Hexagrammidae

Lingcod

Ophiodon elongatus Girard

<sup>&</sup>lt;sup>5</sup> Gillespie, G.E. 1993. An updated list of the fishes of British Columbia, and those of interest in adjacent waters, with numeric code designations. Can. Tech. Rep. Fish. Aquat. Sci. 1918: 116 p.

Family and common name

Hexanchidae Sixgill shark

Osmeridae Smelts

Pleuronectidae

Arrowtooth flounder or turbot

Petrale sole
Rex sole
Flathead sole
Butter sole
Rock sole
Dover sole
English sole

Starry flounder

Sand sole

Rajidae

Big skate
Longnose skate

Salmonidae Salmon

Scombridae
Skipjack tuna
Chub mackerel

Scorpaenidae

Rougheye rockfish
Pacific ocean perch
Redbanded rockfish
Shortraker rockfish
Silvergray rockfish
Copper rockfish
Darkblotched rockfish
Splitnose rockfish
Greenstriped rockfish
Widow rockfish

Scientific name

Hexanchus griseus (Bonnaterre)

unknown species

Atheresthes stomias (Jordan & Gilbert)

Eopsetta jordani (Lockington) Errex zachirus (Lockington)

Hippoglossoides elassodon Jordan & Gilbert

Pleuronectes isolepis (Lockington)
Pleuronectes bilineatus (Ayres)
Microstomus pacificus (Lockington)
Pleuronectes vetulus (Girard)
Platichthys stellatus (Pallas)
Psettichthys melanostictus Girard

Raja binoculata Girard
Raja rhina (Jordan & Gilbert)

Oncorhynchus sp.

Katsuwonus pelamis (Linnaeus) Scomber japonicus Houttuyn

Sebastes aleutianus (Jordan & Evermann)

Sebastes alutus (Gilbert)
Sebastes babcocki (Thompson)
Sebastes borealis Barsukov
Sebastes brevispinis (Bean)
Sebastes caurinus Richardson
Sebastes crameri (Jordan)
Sebastes diploproa (Gilbert)
Sebastes elongatus Ayres

Sebastes entomelas (Jordan & Gilbert)

Yellowtail rockfish

Sebastes flavidus (Ayres)

Family and common name

Scorpaenidae cont'd Quillback rockfish

Black rockfish

China rockfish

Tiger rockfish

Bocaccio

Canary rockfish

Redstipe rockfish

Yellowmouth rockfish

Yelloweye rockfish

Sharpchin rockfish

Shortspine thornyhead

Squalidae

Spiny dogfish

Torpedinidae

Pacific electric ray

**INVERTEBRATES** 

Octopoda

Octopus or devilfish

Teuthoidea

Squid

Scientific name

Sebastes maliger (Jordan & Gilbert)

Sebastes melanops Girard

Sebastes nebulosus Ayres

Sebastes nigrocinctus Ayres

Sebastes paucispinis Ayres

Sebastes pinniger (Gill)

Sebastes proriger (Jordan & Gilbert)

Sebastes reedi (Westrheim & Tsuyuki)

Sebastes ruberrimus (Cramer)

Sebastes zacentrus (Gilbert)

Sebastolobus alascanus Bean

Squalus acanthias Linnaeus

Torpedo californica Ayres

Octopus sp.

Loligo opalescens Berry

00

Table 2. Total catch (t) and related effort<sup>a</sup> (h) for the British Columbia trawl fleet in 1993 (excludes dumped and discarded fish).

| Major Area    | 41       | 3      | 3        | С      | 3       | D      | 5       | SA.                                   | 5       | В      |
|---------------|----------|--------|----------|--------|---------|--------|---------|---------------------------------------|---------|--------|
| Month         | Catch    | Effort | Catch    | Effort | Catch   | Effort | Catch   | Effort                                | Catch   | Effort |
| January       | 283.6    | 377    | 555.8    | 873    | 819.5   | 931    | 946.7   | 751                                   | 306.3   | 190    |
| February      | 2,325.7  | 1,633  | 1,679.1  | 4,045  | 853.1   | 1,319  | 588.7   | 666                                   | 494.7   | 194    |
| March         | 2,728.1  | 926    | 730.3    | 1,559  | 435.0   | 679    | 150.0   | 176                                   | 200.7   | 166    |
| April         | 840.3    | 418    | 1,000.1  | 1,317  | 899.0   | 922    | 497.9   | 722                                   | 381.4   | 467    |
| May           | 226.2    | 214    | 1,416.9  | 2,273  | 1,433.7 | 1,423  | 1032.0  | 1,842                                 | 1,150.6 | 1,367  |
| June          | 326.5    | 97     | 1,433.3  | 1,273  | 1,070.1 | 1,650  | 959.7   | 2,015                                 | 2,016.3 | 2,039  |
| July          | 142.3    | 23     | 2,215.2  | 1,559  | 706.5   | 819    | 626.2   | 1,177                                 | 1,023.3 | 1,616  |
| August        | 960.9    | 133    | 1,642.5  | 823    | 514.3   | 626    | 397.2   | 677                                   | 553.7   | 850    |
| September     | 1,323.4  | 286    | 2,996.1  | 1,427  | 605.2   | 663    | 487.7   | 861                                   | 564.5   | 885    |
| October       | 1,199.1  | 258    | 2,072.1  | 1,974  | 2,322.4 | 2,078  | 790.2   | 1,221                                 | 1,090.4 | 1,088  |
| November      | 1,060.6  | 351    | 1,259.5  | 661    | 318.7   | 459    | 284.6   | 470                                   | 242.0   | 334    |
| December      | 263.7    | 308    | 39.2     | 51     | 12.5    | 9      | 95.0    | 111                                   | 77.0    | 35     |
| Total         | 11,680.4 | 5,024  | 17,040.1 | 17,835 | 9,990.0 | 11,578 | 6,855.9 | 10,689                                | 8,100.9 | 9,231  |
|               |          |        |          | - F    | 8 1     |        | 3 9 5   | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |         | No of  |
| CPUE (t/h)    |          | 2.325  |          | 0.955  |         | 0.863  |         | 0.641                                 |         | 0.878  |
| % catch       |          | 15.71  |          | 22.91  |         | 13.43  |         | 9.22                                  |         | 10.89  |
| % effort      |          | 6.06   |          | 21.51  |         | 13.96  |         | 12.89                                 |         | 11.13  |
| Success ratio |          | 2.59   |          | 1.07   |         | 0.96   |         | 0.72                                  |         | 0.98   |

<sup>&</sup>lt;sup>a</sup> This effort was prorated using the known CPUE obtained from interviews which accounted for 97% of the total catch.

| Major area    | 50      |        | 51       | D      | 58      |        | To       | otal   |
|---------------|---------|--------|----------|--------|---------|--------|----------|--------|
| Month         | Catch   | Effort | Catch    | Effort | Catch   | Effort | Catch    | Effort |
| January       | 87.1    | 147    | 252.9    | 628    | 302.1   | 283    | 3554.0   | 4,180  |
| February      | 313.5   | 483    | 319.6    | 853    | 336.6   | 350    | 6911.0   | 9,543  |
| March         | 637.7   | 653    | 673.0    | 1,127  | 286.8   | 327    | 5,841.6  | 5,613  |
| April         | 725.4   | 1,425  | 1,083.4  | 2,181  | 781.3   | 838    | 6,208.8  | 8,290  |
| May           | 269.3   | 655    | 1,221.1  | 2,522  | 522.9   | 661    | 7,272.7  | 10,957 |
| June          | 775.7   | 1,219  | 1,032.6  | 2,102  | 295.7   | 442    | 7,909.9  | 10,837 |
| July          | 301.3   | 489    | 907.0    | 1,158  | 201.8   | 176    | 6,123.6  | 7,017  |
| August        | 125.9   | 193    | 673.3    | 879    | 146.1   | 135    | 5,013.9  | 4,316  |
| September     | 193.1   | 309    | 1,026.2  | 1,364  | 161.7   | 147    | 7,357.9  | 5,942  |
| October       | 291.6   | 373    | 1,264.2  | 1,712  | 517.1   | 547    | 9,547.1  | 9,251  |
| November      | 213.1   | 375    | 3,082.4  | 2,349  | 273.5   | 267    | 6,734.4  | 5,266  |
| December      | 32.9    | 43     | 1,144.5  | 1,017  | 226.1   | 124    | 1,890.9  | 1,698  |
| Total         | 3,966.6 | 6,364  | 12,680.2 | 17,892 | 4,051.7 | 4,297  | 74,365.8 | 82,910 |
| CPUE (t/h)    |         | 0.623  |          | 0.709  |         | 0.943  |          | 0.897  |
| % catch       |         | 5.33   |          | 17.05  |         | 5.45   |          |        |
| % effort      |         | 7.68   |          | 21.58  |         | 5.18   |          |        |
| Success ratio |         | 0.69   |          | 0.79   |         | 1.05   |          |        |

|  | 1,032.6 |  |  |  |
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Trawl catch (t) by major area in 1993

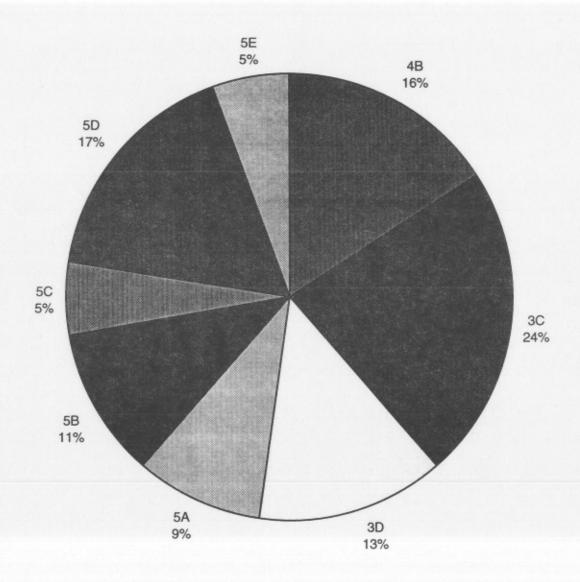
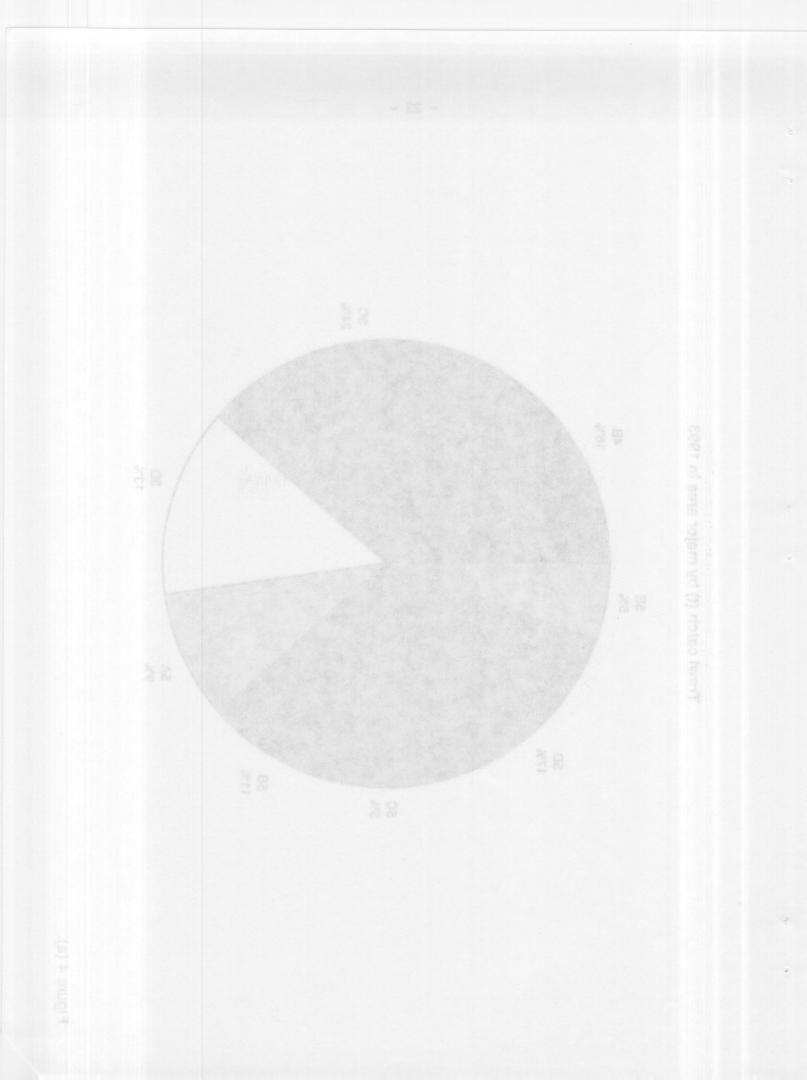


Figure 4 (a).



# Trawl effort (hr) by major area in 1993

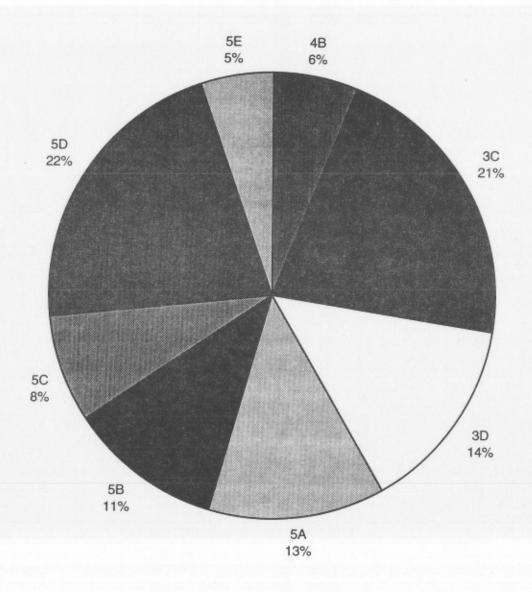


Figure 4 (b).

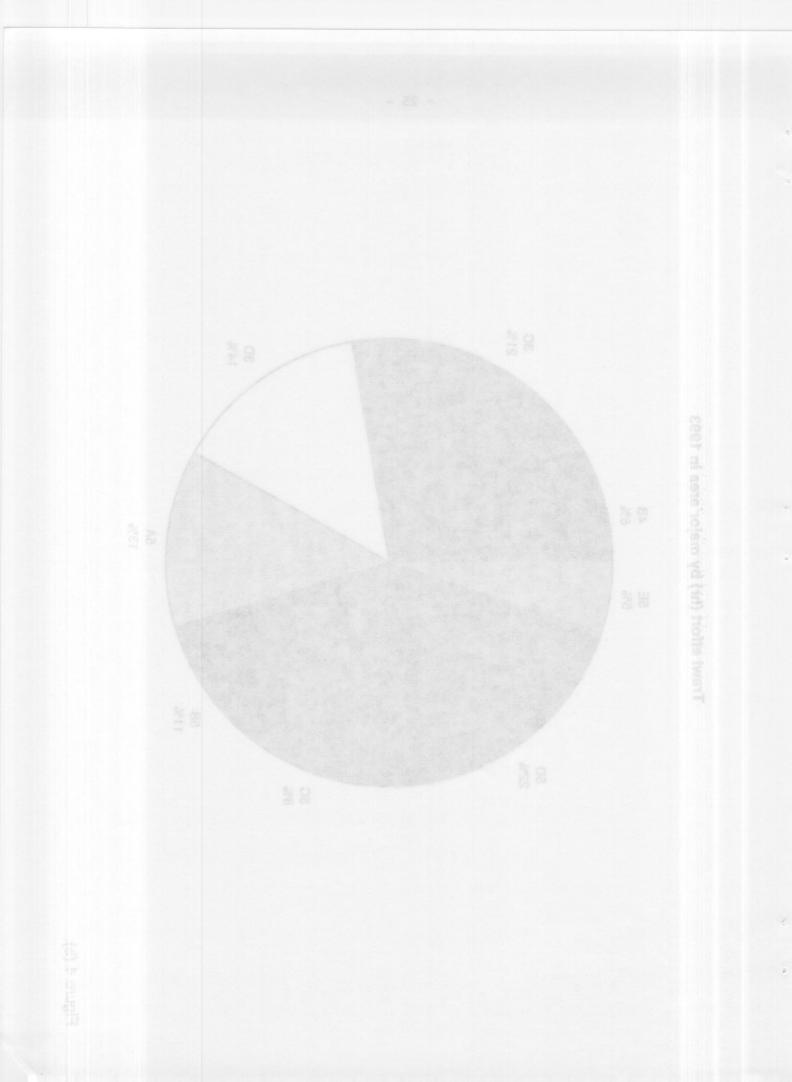


Table 3. Total British Columbia trawl landings (t) by main species and major area in 1993 (excluding dumped and discarded fish).

|                             |          |          |         | Major area |         |         |          |         |          |
|-----------------------------|----------|----------|---------|------------|---------|---------|----------|---------|----------|
| Species                     | 4B       | 3C       | 3D      | 5A         | 5B      | 5C      | 5D       | 5E      | Total    |
| English sole                | 65.0     | 105.2    | 39.7    | 51.9       | 75.0    | 144.6   | 1,288.2  | 0.2     | 1,769.8  |
| Rock sole                   | 19.9     | 79.7     | 34.7    | 456.7      | 342.6   | 604.7   | 1,475.7  | 0.2     | 3,014.2  |
| Petrale sole                | 6.4      | 246.0    | 105.7   | 25.2       | 80.8    | 50.4    | 14.7     | 49.5    | 578.7    |
| Dover sole                  | 12.1     | 1,516.4  | 584.5   | 56.2       | 279.4   | 207.4   | 649.2    | 652.2   | 3,957.4  |
| Rex sole                    | 0.1      | 46.2     | 5.4     | 1.3        | 1.4     | 21.9    | 113.4    | 50.5    | 240.2    |
| Starry flounder             | 8.6      | 15.1     | 0.4     | 0.3        | 1.1     | 6.4     | 72.8     | -       | 104.7    |
| Turbot                      | 2.6      | 404.2    | 1,787.2 | 387.8      | 1,037.9 | 15.7    | 337.5    | 47.0    | 4,019.9  |
| Other flatfish <sup>a</sup> | 3.2      | 14.4     | 0.5     | 1.2        | 2.0     | 61.6    | 159.7    | 415.4   | 242.6    |
| Pacific cod                 | 157.9    | 1,690.3  | 833.2   | 806.0      | 635.4   | 1,395.7 | 2,567.0  | 6.9     | 8,092.4  |
| Lingcod                     | 0.9      | 1,426.0  | 447.1   | 671.9      | 747.2   | 206.8   | 248.4    | 10.0    | 3,758.3  |
| Sablefish                   | 0.7      | 212.7    | 138.2   | 10.2       | 37.7    | 23.3    | 25.7     | 92.7    | 541.2    |
| Pollock                     | 3,221.1  | 1.6      | 1.1     | 300.6      | 21.5    | 18.3    | 4,407.3  | 2.0     | 7,973.5  |
| Hake                        | 8,005.9  | 7,952.6  | 3.2 18  | 9 1.129    | 0.6     | 328 8   | 164      | 183.6   | 15,959.1 |
| Pacific ocean perch         | 4.3      | 646.1    | 980.7   | 327.5      | 1,552.7 | 471.6   | 82.9     | 495.8   | 4,561.6  |
| Other rockfish <sup>a</sup> | 11.5     | 2,225.3  | 4,916.1 | 3,706.5    | 3,214.9 | 702.3   | 1,020.6  | 2,621.7 | 18,418.9 |
| Mica caciaca                | 7.3      | 28.5     | 2.4     | 11.9       | 18.8    | 14.5    | 74.6     | 0.4     | 158.4    |
| Deefiel                     | 6.1      | 15.1     | 34.8    | 9 - 10     | 9 - 29  | -107.1  |          | - 34.4  | 56.0     |
|                             | 11.6     | 92       | 0.4     | 1.7        | 2.2     | 9.7     | 112.7    | 10.4    | 148.7    |
| Reduction <sup>a</sup>      | 135.2    | 414.7    | 77.9    | 39.0       | 49.7    | 11.7    | 29.8     | 12.2    | 770.2    |
| Total                       | 11,680.4 | 17,040.1 | 9,990.0 | 6,855.9    | 8,100.9 | 3,966.6 | 12,680.2 | 4,051.7 | 74,365.8 |
| Effort                      | 5,024    | 17,835   | 11,578  | 10,689     | 9,231   | 6,364   | 17,892   | 4,297   | 82,910   |

<sup>&</sup>lt;sup>a</sup> Refer to Table 6 for breakdown by species.

Table 4. Total midwater" catch (t) and related affort" (h) for the British Columbia trawfilest in 1993 (excludes dumped as

28

a Midwater trawl catch and effort are included in all the trawl tables in this report.

<sup>&</sup>lt;sup>b</sup> This effort was prorated using the known CPUE obtained from fishing logbooks which accounted for 98% of the midwater trawl catch.

67 -

Table 4 (cont'd)

| Major area    |   | 5C         |            | 5D         |             | 5E            |             | To             | otal   |
|---------------|---|------------|------------|------------|-------------|---------------|-------------|----------------|--------|
| Month         | C | atch       | Effort     | Catch      | Effort      | Catch         | Effort      | Catch          | Effort |
|               |   | . These mi | dwaler tra | wi calches | are include | od in all the | trawl table | is in this rep | ort.   |
| January       | - |            | -          | -          | -           | -             | -           | 733.8          | 566    |
| February      | - |            | 1,068      | . 981      | -858        | 364           | -           | 2,358.8        | 1,190  |
| March         | - |            |            | 1.7        | 2           | -             | -           | 2,716.5        | 743    |
| April         |   |            | 0,411.0    | 1,548.3    | 1,198.9     | 415.4         | 0.0         | 975.4          | 359    |
| May           | - |            |            | 18.9       | 18          | -             | -           | 749.5          | 285    |
| June          |   |            | -          |            |             | -             | -           | 1,337.4        | 207    |
| July          | - |            | 318.0      | - 50       | 6           | -0.8          |             | 1,547.6        | 189    |
| August        | - |            | 1          | - 0.3      | - 0.1       | -             |             | 2,411.2        | 301    |
| September     | - |            | 15.7       | 11.3       | - 23        | 0.3           | - 1         | 3,867.6        | 577    |
| October       | - |            | - 1997)    | 242.7      | 107         | 6.5           | 2           | 4,269.6        | 1,281  |
| November      | - |            | - 1%       | 1,570.8    | 547         | - 3.2         | 4           | 3,570.7        | 870    |
| December      | - |            | - Captro   | 134.7      | 117         | 19.3          | - 4         | 442.1          | 304    |
| Ank o         |   | 3,182.b    | 2010       |            | 246.9       | 0.9           | -           | 1,824.0        | - 5,   |
| Total         |   |            | 1          | 1,980.1    | 820         | 26.1          | 11          | 24,980.2       | 6,872  |
| CPUE (t/h)    |   |            | 0 04       |            | 2.415       |               | 2.373       |                | 3.635  |
| % catch       |   |            | 003        |            | 7.93        |               | 0.10        |                | 0.000  |
| % effort      |   |            | 0.01       |            | 11.93       |               | 0.16        |                |        |
| Success ratio |   |            | 0.01       |            | 0.66        |               | 0.65        |                |        |
| ouccess ratio |   |            | U          | 0.4        | 0.00        |               | 0.05        |                |        |
|               |   |            |            |            |             |               |             |                |        |

table b. British Columbia midwater trawl landings" (I) by species and major area in 1993 (excluding dumpe and discarded fish).

Table 5. British Columbia midwater trawl landings<sup>a</sup> (t) by species and major area in 1993 (excluding dumped and discarded fish).

|                     |          |         |         | Major area |          |       |          |      |          |
|---------------------|----------|---------|---------|------------|----------|-------|----------|------|----------|
| Species             | 4B       | 3C      | 3D      | 5A         | 5B       | 5C    | 5D       | 5E   | Total    |
| English sole        |          | -       |         | 0.1        | -        |       |          | -    | 0.1      |
| Petrale sole        |          | -       | 0.4     | ā an       | -        | 0.85  | -        | -    | 0.4      |
| Dover sole          |          | 0       | -       | 0.1        |          | 0.16  |          | -    | 0.1      |
| Rex sole            | -        | 0.01    | -       | 11-03      | -        | 0.10  | 0.0      | -    | 0.2      |
| Other flatfish      | -        | 0.3     | -       | 7.03       | 0.1      | 2.373 |          |      | 0.4      |
| Pacific cod         | 0.5      | 0.4     | -       | 0.8        | 0.2      | 0.000 | 0.1      | -    | 2.0      |
| Lingcod             | _        | 0.6     | 1.4     | /          | - 5500.0 | -     | 84 880 8 | 1.0  | 3.0      |
| Sablefish           |          |         | 0.2     | 0.1        | 0.2      |       | 04 000 0 | -    | 0.5      |
| Pollock             | 3,182.5  | -       |         | 246.9      | 0.9      | -     | 1,824.0  | -    | 5,254.3  |
| Hake                | 8,005.9  | 7,952.6 | 134.7   | -117       | 0.6      | - 9   | - 442.1  | -    | 15,959.1 |
| Pacific ocean perch | -        | 1.2     | 60.4    | 16.2       | 3.2      | . 4   | 0.1      | -    | 81.1     |
| Other rockfish      | 0.7      | 189.0   | 1,483.6 | 927.5      | 409.3    | - 5   | 132.9    | 25.0 | 3,168.0  |
| Misc. species       | -        | 15.7    | -13     | - 23       | - 0.3    | - 1   | 5,867.6  | -    | 15.7     |
| Animal food         | 11.6     | -       | 0.3     | 0.1        | -        |       | 16.9     | -    | 28.9     |
| Reduction           | 134.4    | 318.0   | 2.0     | 5.1        | 0.9      | - "   | 5.9      | 0.1  | 466.4    |
| 1000                |          |         | -       |            |          |       | 1,337.4  |      |          |
|                     |          |         |         |            |          |       | 749.5    |      | 285      |
| Total               | 11,335.6 | 8,477.8 | 1,548.3 | 1,196.9    | 415.4    | 0.0   | 1,980.1  | 26.1 | 24,980.2 |
| Effort              | 2,871    | 1,066   | 981     | 858        | 264      | -1    | 820      | 11   | 6,872    |

a These midwater trawl catches are included in all the trawl tables in this report.

- 31 -

Table 6. Species landed (t) as "other flatfish", "other rockfish", "miscellaneous species", animal food", and "reduction" by major area in 1993 (excludes dumped and discarded fish).

| supbecuted            | 16.   |        | 0.3   |            |       |       | 0.5   | 0.4     | 0.3     |
|-----------------------|-------|--------|-------|------------|-------|-------|-------|---------|---------|
| AOIL BOI              |       | (L'    |       | Major area | 0.1   | III.  |       |         | 0.4     |
| miladu                |       | 0.3    |       | 0.3        |       |       |       |         |         |
| Species               | 4B    | 3C     | 3D    | 5A         | 5B    | 5C    | 5D    | 5E      | Total   |
|                       |       |        |       |            |       |       |       |         |         |
| Other flatfish        |       |        |       |            |       |       |       |         |         |
| Butter sole           | -     | Dia.   |       |            | -     | 1.9   | 15.9  |         | 17.8    |
| C-O sole              | 0.1   | -      |       | tr.        | 0.1   | 2.1   |       |         | 2.3     |
| Curlfin sole          | (1)2  | -      |       | tr.        | tr.   | 1.1   | 2.8   |         | 3.9     |
| Flathead sole         | - 0.7 | 5.9    | 0.3   | - 2.4      | . 0.8 | 0.2   | 1.4   |         | 7.8     |
| Sand sole             | 0.2   | 7.4    |       | W          | 1.3   | 57.4  | 138.4 |         | 204.7   |
| Pacific sanddab       | 0.3   | 0.8    |       |            | -     |       |       |         | 1.1     |
| Unspecified sole      | 2.8   | 0.4    | 0.2   | 1.2        | 0.7   | 1.1   | 1.4   |         | 7.8     |
| Total                 | 3.4   | 14.5   | 0.5   | 3 1.2      | 2.1   | 63.8  | 159.9 | 5'951'0 | 245.4   |
| Other rockfish        |       |        |       |            |       |       |       |         |         |
| Black rockfish        | 0.1   | -13.5  | 1.3   | 5.8        | 16.3  | 1.0   | 1.9   | 18.4    | 26.4    |
| Bocaccio              | 0.7   | 128.8  | 322.1 | 250.0      | 239.5 | 49.3  | 89.5  | 42.3    | 1,122.2 |
| Canary rockfish       | tr.   | 248.6  | 585.0 | 85.0       | 109.4 | 53.6  | 22.2  | 28.8    | 1,132.6 |
| China rockfish        |       | tr. 00 | - 7.2 | tr. 10     | - 8.6 | tr.   | 1.9   |         | 1.9     |
| Copper rockfish       |       | 2.2    | 1.3   | 1.3        | 354.8 | 5.1   | 39.3  | 41.8    | 49.2    |
| Darkblotched rockfish |       | 18.6   | 37.2  | 15.8       | 14.7  | 2.9   | 1.2   | 1.9     | 92.3    |
| Greenstriped rockfish |       | 4.6    | 1.3   | 1.2        | 1.6   | 0.7   | 0.1   |         | 9.5     |
| Quillback rockfish    |       | 0.6    | 0.5   | 15.0       | 2.7   | 4.7   | 22.2  | 11.5    | 45.7    |
| Redbanded rockfish    | - 05  | 59.3   | 96.9  | 76.8       | 499.4 | 113.8 | 40.2  | 27.6    | 914.0   |
| Redstripe rockfish    |       | 221.8  | 321.3 | 547.3      | 394.7 | 62.4  | 11.6  | 341.8   | 1,900.9 |
| Rosethorn rockfish    |       |        | -     | tr.        | tr.   | tr.   | 0.4   | 0.1     | 0.5     |
| Rougheye rockfish     | 3.0   | 226.0  | 273.2 | 87.1       | 95.8  | 5.8   | 4.9   | 1,180.2 | 1,876.0 |
| Sharpchin rockfish    |       | 23.2   | 52.6  | 260.4      | 37.0  | 4.9   | 3.9   | 8.8     | 390.8   |
| Shortraker rockfish   |       | 14.8   | 28.6  | 5.0        | 11.4  | 1.5   | 1.8   | 281.4   | 344.5   |
| Shortspine rockfish   | 0.2   | 154.2  | 64.3  | 13.1       | 47.6  | 17.6  | 31.9  | 169.3   | 498.2   |

Table 6 (cont'd)

|                         |       |         |         |            |         | and the state of t | and the state of t |         |          |
|-------------------------|-------|---------|---------|------------|---------|--|--|---------|----------|
|                         |       | 154.2   | 64.3    | 134        |         |  |  |         |          |
| Thortraker rocklish     |       | 23.2    | 28.6    | Major area | 32.0    | 40   | 9.0  |         | - 0000   |
| Species                 | 4B    | зс      | 3D      | 5A         | 5B      | 5C   | 5D   | 5E      | Total    |
| (ceethom rockfish       |       |         |         |            |         |  |  |         |          |
| Other rockfish (cont'd) |       | 221.8   | 321.3   |            |         |  | 447.0  |         | alero    |
| Silvergray rockfish     | 0.2   | 80.0    | 394.7   | 313.4      | 271.1   | 267.6  | 147.6  | 284.7   | 1,759.3  |
| Splitnose rockfish      | -     | 26.6    | 60.8    | 10.8       | 18.8    | 0.7  | 2.0  | 11.5    | 131.2    |
| Tiger rockfish          |       | -4.6    | 0.1     | -13        | 1.41    | 59   | 1.5  | 1.9     | 0.       |
| Vermilion rockfish      | -     | 0.5     | 57.2    | 16.6       | 14.7    | tr.  | 1.4  |         | 1.9      |
| Widow rockfish          | -     | 119.1   | 747.3   | 601.2      | 354.8   | 2.9  | 40.6   | 41.8    | 1,907.7  |
| Yelloweye rockfish      | tr.   | 16.9    | 7.2     | 7.0        | 6.6     | 1.3  | 6.4  | 5010    | 45.4     |
| Yellowmouth rockfish    | 14"   | 47.9    | 300.8   | 353.9      | 243.4   | 18.6   | 2.2  | 147.8   | 1,114.6  |
| Yellowtail rockfish     | 7.0   | 818.5   | 1,597.6 | 1,045.0    | 831.8   | 82.9   | 543.9  | 35.4    | 4,962.   |
| Unspecified rockfish    | 0.4   | 13.5    | 21.8    | 11.2       | 18.2    | 5.2  | 5.1  | 18.4    | 93.8     |
| Auger rockley           |       |         |         |            |         |  |  |         |          |
| Total                   | 11.6  | 2,225.7 | 4,915.9 | 3,706.3    | 3,214.8 | 702.5  | 1,022.2  | 2,621.8 | 18,420.8 |
| Misc. species           |       |         |         |            |         |  |  |         |          |
| Chub mackerel           | - 2.8 | 4.2     | - 0%    | . 13       | - 0.7   | . 14   | . 44   | -       | 4.       |
| Jack mackerel           | - 0.3 | 4.3     | -       | 2          | -       |  |  |         | 4.       |
| Greenlings              | - 0%  | - 7.4   | -       | tr.        | 1.3     | 57.4   | 138.4  |         | tr.      |
| Octopus                 | 0.7   | 2.2     | 0.3     | 2.4        | 0.8     | 4.0  | 24.3   |         | 34       |
| Pile perch              | tr.   | -       | -       | 0.         | 1       | . 44   | 2.8  |         | tr.      |
| Sculpins                | 0.1   | -       | -       | T.         | 0.1     | 2.4  | -  |         | 0.       |
| Shark                   |       | tr.     | tr.     |            | -       | . 13   | 15.9   |         | tr.      |
| Skate wings             | 6.5   | 10.4    | 1.9     | 9.3        | 18.0    | 10.6   | 49.8   | -       | 106      |
| Skipjack tuna           |       | 7.1     | -       | -          |         |  | _  |         | 7.       |
| Squid                   | tr.   | 0.1     | 2D      | 5.4        | 58      | 8C   | 0.1  | SE      | 0.       |
| Sturgeon                |       | 0.3     | -       | 0.1        |         |  | tr.  |         | 0        |
| Wolf eel                |       | tr.     |         | tr.        | 0.1     | tr.  | -  |         | 0.       |
| Unspecified             | tr.   | -       | 0.3     | -          | -       | -  | 0.5  | 0.4     | 1.       |
|                         |       |         |         |            |         |  | 0.0  | 0.4     |          |
| Total                   | 7.3   |         |         |            |         |  |  |         |          |

|                | Major area |        |       |      |       |       |       |       |       |  |  |  |
|----------------|------------|--------|-------|------|-------|-------|-------|-------|-------|--|--|--|
| Species        | 4B         | 3C     | 3D    | 5A   | 5B    | 5C    | 5D    | 5E    | Total |  |  |  |
| Animal food    |            |        |       |      |       |       |       |       |       |  |  |  |
| Pollock        | 11.7       | -      | -     | -    | -     | -     |       |       | 11.7  |  |  |  |
| Unspecified    | -          | -      | 0.4   | 1.8  | 2.1   | 9.6   | 112.7 | 10.3  | 136.9 |  |  |  |
| Total          | 11.7       | 0      | 0.4   | 1.8  | 2.1   | 9.6   | 112.7 | 10.3  | 148.6 |  |  |  |
| Reduction      |            |        |       |      |       |       |       |       |       |  |  |  |
| Chub mackerel  | -          | 0.6    | -     | -    |       |       |       |       | 0.6   |  |  |  |
| Dogfish        | 13.1       | 18.7   |       |      |       |       |       |       | 31.8  |  |  |  |
| Dover sole     | 0.4        | 54.7   | 11.4  | 0.2  | 5.7   | 1.9   | 0.3   | 0.6   | 75.2  |  |  |  |
| English sole   | 0.2        | 1.0    | 0.2   | 0.8  | 1.3   |       | 2.3   | -     | 5.8   |  |  |  |
| Herring        | -          | 0.9    |       | -    |       |       |       |       | 0.9   |  |  |  |
| Lingcod        | -          | 1.8    | 1.2   | 1.2  | 1.5   | 0.4   | 0.4   | 0.1   | 6.6   |  |  |  |
| Jack mackerel  | -          | 0.6    |       | -    |       |       |       |       | 0.6   |  |  |  |
| Misc. sole     | - 1        | 0.1    |       | -    |       | -     |       | -     | 0.1   |  |  |  |
| Ocean perch    | -          | 3.5    | 6.6   | 0.6  | 9.6   | 5.0   |       | 0.3   | 25.6  |  |  |  |
| Other rockfish | tr.        | 22.6   | 14.4  | 11.6 | 11.6  | 0.3   | 0.2   | 9.5   | 70.2  |  |  |  |
| Pacific cod    | 0.1        | 2.2    | 0.7   | 4.7  | 2.6   | 1.9   | 0.4   | -12.1 | 12.6  |  |  |  |
| Pacific hake   | -          | 239.0  | -     | -    |       |       | -     | -     | 239.0 |  |  |  |
| Petrale sole   | tr.        | 1.7    | 1.2   | 0.1  | 0.1   | tr.   | -     | tr.   | 3.1   |  |  |  |
| Pollock        | 120.7      | 47.7   | - 0.5 | 3.0  | - 2.9 | - 0.4 | 1.8   | 1.6   | 173.2 |  |  |  |
| Rex sole       | -          | 1.9    | 0.1   | 0.1  | -11.9 |       |       |       | 2.1   |  |  |  |
| Rock sole      | -          | 0.1    | 0.2   | 6.8  | 2.4   | 1.7   | 0.1   | -     | 11.3  |  |  |  |
| Sablefish      | -          | 1.4    | 0.2   | tr.  | 0.3   | 0.1   |       |       | 2.0   |  |  |  |
| Salmon         | 43         | 30 0.4 | 30    | DV . | 58    | 90    | 550   | QE.   | 0.4   |  |  |  |
| Shad           | -          | 0.4    | -     | -    | -     | -     |       | -     | 0.4   |  |  |  |
| Skate wings    | 0.1        | 0.1    | 0.3   | tr.  |       |       |       |       | 0.5   |  |  |  |
| Skipjack tuna  | -          | 2.1    |       | -    | -     | -     | -     | -     | 2.1   |  |  |  |
| Squid          | 0.4        | -      | -     | -    | -     | -     | -     | -     | 0.4   |  |  |  |

Table 6 (cont'd)

| zania              | UY    |       |      |            |      |      |      |              |       |
|--------------------|-------|-------|------|------------|------|------|------|--------------|-------|
|                    |       |       |      |            |      |      |      |              |       |
|                    | 0.1   | 0.1   |      | lajor area |      |      |      |              | 0.5   |
| Species            | 4B    | 3C    | 3D   | 5A         | 5B   | 5C   | 5D   | 5E           | Total |
| Sablefish          |       | 1.4   | 0.2  | 11.        | 0.3  | 0.1  |      |              | 9.0   |
| Reduction (cont'd) |       |       |      |            |      |      |      |              |       |
| Turbot             | -     | 6.0   | 41.2 | 8.3        | 11.9 | -    | -    | -            | 67.4  |
| Unspecified        | 0.3   | 7.1   | 0.5  | 1.5        | 2.9  | 0.4  | 24.4 | 1.6          | 38.7  |
| Potrale sole       | D.    | 1.7   | 1.2  | 0.1        | 0.1  | 111  |      | L. Philippin | 3.1   |
|                    |       |       |      |            |      |      |      |              | 588.0 |
| Total              | 135.3 | 414.6 | 78.2 | 38.9       | 49.9 | 11.7 | 29.9 | 12.1         | 770.6 |
|                    |       |       |      |            |      |      |      |              |       |
|                    |       |       |      |            |      |      |      |              |       |
|                    |       |       |      |            |      |      |      |              |       |
|                    |       |       |      |            |      |      |      |              |       |
|                    |       |       |      |            |      |      |      |              |       |
|                    |       |       |      |            |      |      |      |              |       |
|                    |       |       |      |            |      |      |      |              |       |
|                    |       |       |      |            |      |      |      |              |       |
|                    |       |       |      |            |      |      |      |              |       |
|                    |       |       |      |            |      |      |      |              |       |
|                    |       |       |      |            |      |      |      |              |       |
|                    |       |       |      |            |      |      |      |              |       |
|                    |       |       |      |            |      |      |      |              |       |
|                    |       |       |      |            |      |      |      |              |       |

Table 7. British Columbia trawl landings (t) by species and minor area in 1993.

|                  |         |          |                           | Minor Area |          |          |            |
|------------------|---------|----------|---------------------------|------------|----------|----------|------------|
| Species          | 7-3     | 12       | 14                        | 16         | 17       | 18       | 19         |
| F 89             |         |          |                           |            |          |          |            |
| English sole     |         | 0.88.    | 0.3                       | •          | 34.8     | 8.8      | 0.5        |
| Rock sole        |         | 116.9    | 5.7                       |            | 5.2      | 8.4      | nles sele  |
| Petrale sole     |         | 1,063.6  | 1.8*                      | • •        | 12.1     | -        | 6408.10    |
| Dover sole       |         | 91.8     | 1.0-                      |            | - 0.1    | -        | - alos     |
| Rex sole         |         | -        |                           |            | -        | -        | 6108 10    |
| Butter sole      |         | 0.0      | 1.0-                      |            | -        | -        | aloa pea   |
| Flathead sole    |         | 4.3      | 1.0                       |            | 5.0 -    | -        | 9 08       |
| Sand sole        |         | 278.9    | 0.3                       |            | - 2.6    |          | 10         |
| Turbot           |         | 1.3      |                           |            |          | - 10     | y flounds  |
| Starry flounder  |         | 1.2      | 1.7                       |            | 5.0      | 1.7      | rightsh    |
| Other flatfish   |         | 1,296.5  | 0.3                       |            | 2.5      | -        | bee of     |
| Pacific cod      |         | 0.5      | 2.8                       |            | 0.0 2.5  | 14.8     | 41.9       |
| Lingcod          |         | 124.2    | 6.8                       |            | - 0,7    |          | -riene     |
| Sablefish        |         | 8.1 -    |                           | 0.2        | - 0.1    |          | - XIO      |
| Pollock          |         | 3,220.4  | 9.8                       |            | - 4.3    | 0.4      | nseco o    |
| Pacific ocean    | perch   | 46.3     | 7.1-                      |            | 1.0 -    | -        | -0100      |
| Bocaccio         |         | 0.3      | 8.01                      |            |          |          | ry rocidis |
| Canary rockfis   | hszzz   | 101.2    | 8.6                       | • -        |          | - rieitz | laor-eght  |
| Redstripe rock   | fish    | 122.3    |                           |            | - 3.0    |          | con ayari  |
| Rougheye rock    | rfish   | 8.15     | 2.0                       |            | 1.0-     |          | gray-roc   |
| Silvergray rock  | fish    | 0.1      | 1.0                       |            |          |          | nil some   |
| Yellowmouth ro   | ockfish | 215,9    | 8.71                      |            | -5.5     | - rielt  | wail rock  |
| Yellowtail rockf | fish    | 8.85 1.3 | 0.2                       |            |          | - 1      | W rockfis  |
| Widow rockfish   | 204.4   | 126.6    | 8.2                       |            | €.0-     |          | rocklish   |
| Other rockfish   |         | 0.1      | 0.2                       | 2050.0     | 3,595.4  |          | -          |
| Hake             |         | 1.3      | 1,372.8                   | 295.6      | 649.1    | -        | 43.0       |
| Octopus          |         | - 3.7    | 1.1                       | 1.0        | -1.8     | 0.3      | 0.1        |
| Skate wings      |         | 1.0 -    |                           |            | 1.3      | 1.7      | 1.5        |
| Squid            |         | -        |                           |            |          | -        | - nos      |
| Sturgeon         |         | 13.8     | 8.5                       |            |          | -        | sp.oage    |
| Misc. species    |         | - 3.7    | 0.6                       |            | -3.4     | -        | - 118      |
| Dogfish          |         | 0.988    | 28.7                      | 1.8        | 7.0-     | -        | 2.6        |
| Reduction        |         | 120.9    | 8.3                       |            | - 0.1    | -        | bootly     |
| Animal food      |         | 11.6     |                           | -          | -        | -        | -          |
| 6,174,7          | 4,029.9 | 11,894.9 | 1,115.5                   | 2,055.8    | 3,754.5  |          |            |
| Total            |         | 3,355.2  | 1,392.3                   | 295.6      | 700.7    | 36.1     | 89.6       |
|                  | 4.0     | 0.0      |                           |            |          |          | nail be    |
| Dumped fish      | 1.0     | 8.798    | 163.8                     | 8.8        | 8.91 0.4 |          | rtait bab  |
| Juliped listi    |         | DA 100   | Service of the service of | 1000       | 0.4      |          |            |

Table 7 (cont'd)

|                     |         |         | Minor area |          |         |                 |
|---------------------|---------|---------|------------|----------|---------|-----------------|
| Species             | 20      | 29      | 21         | 23       | 24      | 25              |
|                     |         |         |            |          |         |                 |
| English sole        | 20.2    | 0.4     | 13.3       | 45.6     | 46.5    | 26.1            |
| Rock sole           | 8.0     |         | 13.0       | 58.0     | 8.6     | 4.1             |
| Petrale sole        | 6.4     |         | 7.0        | 116.9    | 122.2   | 68.0            |
| Dover sole          | 12.1    |         | 8.1        | 1,063.6  | 444.6   | 488.9           |
| Rex sole            | - 0.1   |         | 0.1        | 31.8     | 14.4    | 4.6             |
| Butter sole         | -       |         |            | -        | -       | -BIOS KOS       |
| Flathead sole       | •       |         | 0.1        | 0.9      | 4.9     | 0.3             |
| Sand sole           | 0.2     |         | 0.4        | 4.3      | 2.5     | elcz baantel    |
| Γurbot              | 2.6     |         | 0.3        | 278.9    | 125.1   | 1,506.4         |
| Starry flounder     | -       |         | -          | 1.3      | 13.8    | 0.3             |
| Other flatfish      | 0.2     |         | 1.7        | 1.2      | -       | tebricoll kutek |
| Pacific cod         | 95.5    |         | 193.0      | 1,295.5  | 202.0   | 411.4           |
| ingcod              | 0.9     |         | 14.9       | 518.8    | 892.3   | 312.7           |
| Sablefish           | 0.7     |         | 4.3        | 124.2    | 84.3    | 100.8           |
| Pollock             | - 0.1   | 0.2     |            | 1.6      |         | _riaris idsi    |
| Pacific ocean perch | 4.3     |         | 3.9        | 333.0    | 309.1   | 318.8           |
| Bocaccio            | 0.4     |         | 4.7        | 46.3     | 77.7    | 181.5           |
| Canary rockfish     |         |         | 10.6       | 116.4    | 121.6   | 249.2           |
| Redstripe rockfish  |         |         | 3.6        | 101.2    | 117.2   | 124.9           |
| Rougheye rockfish   | 3.0     |         |            | 122.3    | 103.8   | 175.3           |
| Silvergray rockfish | 0.1     |         | 2.0        | 41.6     | 36.5    | 106.2           |
| ellowmouth rockfish |         |         | 0.1        | 23.9     | 23.8    | 25.1            |
| Yellowtail rockfish | 5.5     |         | 17.6       | 215.9    | 585.2   | 1,229.6         |
| Nidow rockfish      |         |         | 2.7        | 25.5     | 90.7    | 594.9           |
| Other rockfish      | 0.3     |         | 3.2        | 126.6    | 204.4   | 183.8           |
| Hake                | 3,595.4 | 2050.0  | 774.6      | 6,845.0  | 333.1   | ther rootdish   |
| Octopus             | 0.19.1  | 295.6   | 1,372.8    | 1.3      | 0.9     | 0.3             |
| Skate wings         | 1.6     | 0.1     | 1.4        | 3.7      | 5.2     | 1.0             |
| Squid               | 1.3     |         |            | 0.1      |         | spriw elsa      |
| Sturgeon            |         |         |            |          | 0.1     | quic            |
| Aisc. species       |         |         | 0.5        | 13.8     | 1.3     | _ nosgrut       |
| Dogfish             | 3.4     |         | 6.4        | 3.7      | 5.0     | 0.5             |
| Reduction           | 0.7     | 5.1     | 29.7       | 332.0    | 53.1    | 60.0            |
| Animal food         | 1.0     |         | 8.9        | 120.9    |         | rielfoubs       |
|                     |         |         |            | 11.6     |         | boot Ismir      |
| Total               | 3,754.5 | 2,055.8 | 1,115.5    | 11,894.9 | 4,029.9 | 6,174.7         |
| 361 99.8            | 700.7   | 295.6   | 1,392.3    | 3,355.2  | .,      | lah             |
| Dumped fish         |         |         |            | 0.2      | 0.1     |                 |
| Discarded fish      | 19.8    | 6.3     | 163.8      | 507.5    | 257.5   | 432.8           |
| nocarueu non        | 0.89    | 0.5     | 8.0        | 0.081    | 201.0   | 702.0           |

Table 7 (cont'd)

|                 |       |            |         | Minor area |            |         |            |
|-----------------|-------|------------|---------|------------|------------|---------|------------|
| Species         |       | 26         | 27      | 9          | 11         | 8       | 2BE        |
| English sole    |       | e.oer 4.1  | 9.9     | 0.9        | s.oor 51.1 | 75.0    | 43.5       |
| Rock sole       |       | 3.7        | 26.9    | 1.6        | 455.2      | 342.6   | 562.6      |
| Petrale sole    |       | 6.3        | 31.5    | 00 -       | 25.2       | 80.8    | 15.8       |
| Dover sole      |       | 25.0       | 70.4    | C 1/2 -    | 56.2       | 279.4   | 25.0       |
| Rex sole        |       | 0.9        | 0.1     | 4.0        | 8.51 1.3   | 1.4     | 5.0        |
| Butter sole     |       | 1.0        | 8.8     | 0.2        | - 0.2      |         | 1.5        |
| Flathead sole   |       | 8.0        | 50 -    |            | 5.0 -      |         | elos baert |
| Sand sole       |       | 10.5       | 2.21-   | E.O -      | 8.0 -      | 1.3     | 56.4       |
| Turbot          |       | 0.88 111.4 | 169.2   | 01 -       | 387.8      | 1,037.9 | 0.1        |
| Starry flounde  | r     | 7.3        | 0.1     |            | 0.3        | 1.1     | 5.9        |
| Other flatfish  | 0.00  | 8.0        | 0.2     | 10 -       | 0.0 1.2    | 0.7     | de 0.501.1 |
| Pacific cod     |       | 76.0       | 346.0   | 22.6       | 783.4      | 635.4   | 631.9      |
| Lingcod         |       | 24.0       | 110.6   | 2.1        | 669.7      | 747.2   | 91.8       |
| Sablefish       |       | 8.5        | 29.0    | 15.        | 10.2       | 37.7    | 9.9        |
| Pollock         |       | 0.6        | 0.5     | 0.8        | 299.8      | 21.5    | 2.5        |
| Pacific ocean   | perch | 103.0      | 558.6   | 9.88       | 327.5      | 1,552.7 | 386.2      |
| Bocaccio        | 9.3   | 30.7       | 109.8   | 16.1       | 234.0      | 239.4   | 14.1       |
| Canary rockfis  | sh    | 84.1       | 251.5   | 3.6        | 81.5       | 109.3   | 31.0       |
| Redstripe rock  |       | 34.0       | 162.6   | 13.7       | 533.7      | 394.6   | 29.5       |
| Rougheye roo    |       | 12.7       | 85.1    | 00-        | 87.1       | 95.8    | 5.5        |
| Silvergray roc  |       | 52.5       | 235.7   | 8.2        | 305.4      | 271.0   | 141.7      |
| Yellowmouth i   |       | 20.2       | 255.6   | T.O.       | 353.8      | 243.3   | 17.8       |
| Yellowtail rock | fish  | 180.6      | 187.2   | 1.9        | 1,043.2    | 831.8   | 27.9       |
| Widow rockfis   |       | 114.7      | 37.7    | 8.0        | 601.3      | 354.8   | 1.6        |
| Other rockfish  |       | 16.1       | 173.8   | 12.9       | 410.5      | 674.1   | 48.8       |
| Hake            |       | 0.10       | -       |            |            | 0.6     | - 67       |
| Octopus         |       | 0.0        | 21.     |            | 7.0 2.3    | 0.8     | 3.1        |
| Skate wings     |       | 0.4        | 0.6     | 0.0-       | 9.2        | 18.0    | 4.9        |
| Squid           |       | 1.0        | -       |            |            |         | - 08       |
| Sturgeon        |       | -          | -       | -          | -          |         | -10901     |
| Misc. species   |       | 0.5        | 0.3     |            | -          | 0.1     | species :  |
| Dogfish         |       | 9.5        | 24.8    |            | -          | -       | flah -     |
| Reduction       |       | 9.1        | 8.9     | -0.5       | 39.0       | 49.7    | 9.6        |
| Animal food     | 4.4   | 0.2        | 20.1    | 8.0*       | N.S 1.7    | 2.2     | 5.7        |
| Total           |       | 928.3      | 2,886.7 | 84.4       | 6,771.6    | 8,100.2 | 2,180.4    |
| Dumped fish     |       |            |         |            | 5.6        | 1.6     | 0.2        |
| Discarded fish  | 2.8   | 182.1      | 55.7    | 9.1-       | 450.6      | 434.4   | 212.1      |
|                 | 583.3 | 0.20102.1  | 00.1    |            | 100.0      | 104.4   | 212.1      |

Table 7 (cont'd)

|  | Minor area |            |       |          |         |         |           |  |  |  |  |  |  |
|--|------------|------------|-------|----------|---------|---------|-----------|--|--|--|--|--|--|
| Species  | 8          | 5L         | 6     | 2AE      | 1E      | 4       | 5U        |  |  |  |  |  |  |
| English sole   |            | 100.2      | 0.8   | 35.1     | 130.9   | 998.7   | 123.5     |  |  |  |  |  |  |
|  |            | 39.4       | 2.7   | 202.2    | 88.8    | 404.1   | 780.5     |  |  |  |  |  |  |
| Petrale sole   |            | 33.8       | 0.9   | 0.7      | 4.0     | 4.3     | 5.5       |  |  |  |  |  |  |
| Dover sole   |            | 128.2      | 54.2  | 5.7      | 102.8   | 444.4   | 96.4      |  |  |  |  |  |  |
| Rex sole   |            | 12.6       | 4.0   | 3.9      | 18.0    | 82.2    | 9.1       |  |  |  |  |  |  |
| Butter sole  |            | 0.2        | 0.2   | 2.3      | 0.1     | 12.2    | 1.3       |  |  |  |  |  |  |
| Flathead sole  |            | 0.2        |       | 0.4      | 0.3     | 0.6     | nea been  |  |  |  |  |  |  |
| Sand sole  |            | 0.6        | 0.3   | 15.5     | 10.5    | 92.0    | 20.4      |  |  |  |  |  |  |
| Turbot   |            | 8.788 14.4 | 1.2   | 9.9      | 33.0    | 293.5   | 1.2       |  |  |  |  |  |  |
| Starry flounder  | 1.1        | 8.0 0.4    |       | 1.0 1.7  | 7.3     | 55.0    | 9.0       |  |  |  |  |  |  |
|  |            | 0.9        | 0.1   | 8.0      | 0.8     | 0.9     | 1.7       |  |  |  |  |  |  |
| Pacific cod  |            | 760.6      | 3.1   | 65.4     | 340.9   | 1,042.5 | 1,117.7   |  |  |  |  |  |  |
| Lingcod  |            | 104.9      | 10.1  | 15.4     | 96.4    | 107.6   | 29.2      |  |  |  |  |  |  |
| The state of the s |            | 9.2        | 4.1   | 29.0     | 6.7     | 3.4     | 15.5      |  |  |  |  |  |  |
| Pollock  |            | 8 888 12.4 | 3.3   | 33.6     | 3,024.8 | 1,204.5 | 144.2     |  |  |  |  |  |  |
| Pacific ocean  | perch      | 46.6       | 38.9  | 0.2      | 77.5    | 2.4     | 2.9       |  |  |  |  |  |  |
| Bocaccio   |            | 30.3       | 4.6   | 8.00 4.5 | 54.4    | 18.8    | 11.7      |  |  |  |  |  |  |
| Canary rockfish  | h: 001     | 13.8       | 8.8   | 0.1      | 9.1     | 4.5     | 8.5       |  |  |  |  |  |  |
| Redstripe rock   | fish       | 15.0       | 17.7  | 2.6      | 3.2     | 0.4     | 5.3       |  |  |  |  |  |  |
| Rougheye rock  | dish       | 0.1        | 0.2   | 85.1     | 4.7     | 0.2     | gne, a ro |  |  |  |  |  |  |
| Silvergray rock  |            | 81.7       | 44.3  | 3.7      | 116.0   | 9.7     | 18.5      |  |  |  |  |  |  |
| Yellowmouth ro   |            | 8.888-     | 0.7   | 255.6    | 1.0     | 1.1     | uncome    |  |  |  |  |  |  |
| Yellowtail rockf   | ish        | 48.8       | 6.4   | 4.3      | 408.3   | 75.8    | 55.6      |  |  |  |  |  |  |
| Widow rockfish   | 354.8      | 0.6        | 0.6   | 0.3      | 26.5    | 6.2     | 7.9       |  |  |  |  |  |  |
| Other rockfish   |            | 74.3       | 36.4  | 20.8     | 51.5    | 28.1    | 58.0      |  |  |  |  |  |  |
| Hake   |            | -          |       |          |         |         |           |  |  |  |  |  |  |
| Octopus  |            | 0.7        |       | 1.6      | 2.3     | 6.2     | 14.2      |  |  |  |  |  |  |
| Skate wings  |            | 5.3        | 0.2   | 3.2      | 3.1     | 30.4    | 13.2      |  |  |  |  |  |  |
| Squid  |            | -          |       |          |         | -       |           |  |  |  |  |  |  |
| Sturgeon   |            | -          |       | -        |         | -       | nose      |  |  |  |  |  |  |
| Misc. species  |            |            |       | 2.0.3    | 0.5     | -       | apicoga . |  |  |  |  |  |  |
| Dogfish  |            | -          |       | 24.8     | 9.6     | -       | . 78      |  |  |  |  |  |  |
| Reduction  |            | 1.6        | 0.5   | 1.0      | 15.7    | 4.4     | 8.9       |  |  |  |  |  |  |
| Animal food  |            | 3.4        | 0.6   | 2.5      | 46.3    | 48.7    | 15.0      |  |  |  |  |  |  |
| Total  | 8,100.2    | 1,540.2    | 244.9 | 437.4    | 4,685.4 | 4,982.8 | 2,574.9   |  |  |  |  |  |  |
| Dumped fish  | 8.1        | - 5.6      |       |          |         | 2.8     | de l ber  |  |  |  |  |  |  |
| Discarded fish   |            | 119.5      | 4.2   | 22.1     | 152.6   | 583.3   |           |  |  |  |  |  |  |

Table 7 (cont'd)

|                      | 1     | Minor area |       |          |
|----------------------|-------|------------|-------|----------|
| Species              | 1W    | 2AW        | 2BW   | Total    |
| English sole         |       | 0.2        |       | 1,770.4  |
| Rock sole            | 0.2   |            | -     | 3,014.3  |
| Petrale sole         | 29.5  | 19.3       | 0.4   | 578.5    |
| Dover sole           | 271.7 | 380.2      | 0.4   | 3,957.3  |
| Rex sole             | 38.5  | 11.3       | 0.7   | 240.0    |
| Butter sole          | -     | -          | -     | 17.8     |
| Flathead sole        |       |            | -     | 7.7      |
| Sand sole            | _     | -          | -     | 204.4    |
| Turbot               | 20.6  | 14.4       | 12.1  | 4,020.0  |
| Starry flounder      | -     | -          | -     | 104.8    |
| Other flatfish       |       |            |       | 12.6     |
| Pacific cod          | 3.6   | 3.2        |       | 8,092.2  |
| Lingcod              | 3.6   | 6.3        | -     | 3,758.5  |
| Sablefish            | 18.4  | 73.9       | 0.1   | 540.9    |
| Pollock              | 1.9   | - 70.0     | - 0.1 | 7,973.1  |
| Pacific ocean perch  | 18.7  | 469.9      | 7.3   | 4,561.5  |
| Bocaccio             | 1.5   | 40.8       | 7.0   | 1,121.6  |
| Canary rockfish      | 3.7   | 25.0       |       | 1,132.3  |
| Redstripe rockfish   | 12.0  | 329.0      | 0.6   | 1,900.8  |
| Rougheye rockfish    | 54.1  | 1,126.1    | 0.0   | 1,876.0  |
| Silvergray rockfish  | 33.8  | 250.7      |       | 1,759.4  |
| Yellowmouth rockfish | 4.2   | 143.6      |       | 1,114.2  |
| Yellowtail rockfish  | 8.6   | 26.8       |       | 4,962.5  |
| Widow rockfish       | 2.8   | 38.9       |       | 1,907.7  |
| Other rockfish       | 141.5 | 375.5      | 2.1   | 2,643.0  |
| Hake                 | 141.5 | 3/3.3      | 2.1   | 15,959.2 |
|                      |       |            |       | 34.1     |
| Octopus              |       |            |       |          |
| Skate wings          |       |            | -     | 106.0    |
| Squid                |       |            | -     | 0.1      |
| Sturgeon             | -     | - 0.4      | -     |          |
| Misc. species        | -     | 0.4        | -     | 16.9     |
| Dogfish              | 0.5   | 117        | -     | 55.9     |
| Reduction            | 0.5   | 11.7       | -     | 770.5    |
| Animal food          | 0.9   | 9.4        |       | 148.3    |
| Total                | 670.3 | 3,356.6    | 23.7  | 74,362.6 |
| Dumped fish          | -     | -          |       | 10.9     |
| Discarded fish       | 128.0 | 167.4      |       | 4,280.2  |

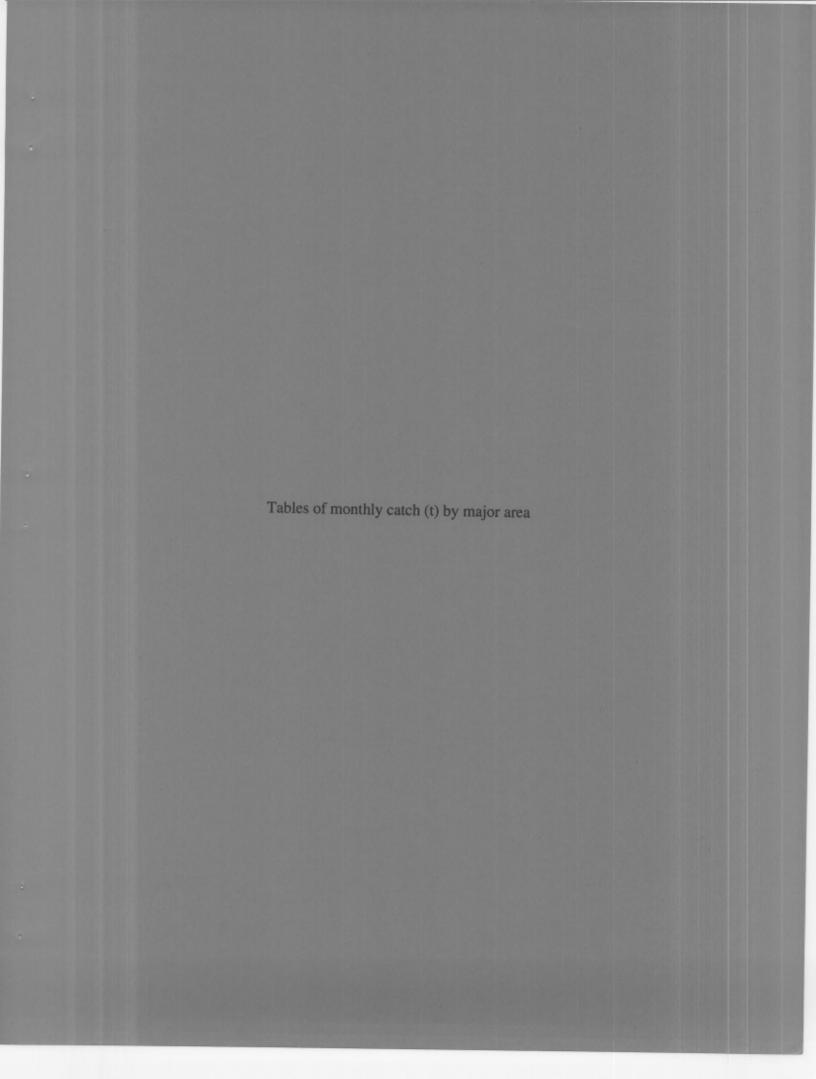


Table 8. 1993 British Columbia trawl landings (t) of groundfish - International area 4B, Strait of Georgia.

|                           | Jan   | Feb     | Mar     | Apr   | May   | Jun   | Jul   | Aug     | Sep     | Oct     | Nov     | Dec   |          |
|---------------------------|-------|---------|---------|-------|-------|-------|-------|---------|---------|---------|---------|-------|----------|
| English s.                | 4.2   | 18.2    | 6.4     | 7.9   | 5.1   | 3.3   |       | 0.7     | 1.3     | 7.0     | 7.0     | 3.9   | 65.0     |
| Rock s.                   | 3.9   | 3.1     | 1.5     | 3.2   | 1.6   | 0.9   |       |         | 0.2     | 1.3     | 1.0     | 3.2   | 19.9     |
| Petrale s.                | 4.0   | 1.5     | 0.1     | 0.1   | 0.5   | 0.2   |       |         |         |         |         |       | 6.4      |
| Dover s.                  | 1.7   | 2.1     |         |       | 2.2   |       | 1.1   | 3.0     | 0.5     | 1.5     |         |       | 12.1     |
| Rex sole                  |       | 0.1     |         |       |       |       |       |         |         |         |         |       | 0.1      |
| Starry fldr               | 1.2   | 3.3     | 1.0     | 1.0   | 0.3   | 0.1   |       |         |         | 0.1     | 0.6     | 1.0   | 8.6      |
| Turbot                    | 1.0   |         |         |       |       |       |       | 1.6     |         |         |         |       | 2.6      |
| Other flat.               |       | 2.5     | 0.5     |       |       |       |       |         |         |         |         | 0.2   | 3.2      |
| Pacific cod               | 7.6   | 81.0    | 8.2     | 2.8   | 3.4   | 0.6   |       | 3.3     | 39.1    | 4.1     | 4.9     | 2.9   | 157.9    |
| Lingcod                   |       |         |         |       |       |       |       | 0.3     |         | 0.1     | 0.5     |       | 0.9      |
| Sablefish                 | 0.2   | 0.5     | 122     | .55 9 |       |       |       |         |         |         | 21.9    | 9.7   | 0.7      |
| Pollock                   | 251.7 | 1,558.3 | 1,037.7 | 126.3 |       |       |       |         |         |         | 1.8     | 245.3 | 3,221.1  |
| Hake                      | 40    | 569.7   | 1,632.4 | 678.5 | 207.4 | 320.7 | 141.2 | 948.3   | 1,280.8 | 1,184.3 | 1,042.6 |       | 8,005.9  |
| Ocean perch               | 4.3   | 5.2     |         | 0.1   | 2.6   |       |       |         |         |         | 0.4     |       | 4.3      |
| Other rockf.<br>Misc. sp. | 0.6   | 1.6     | 0.3     | 0.1   | 0.5   | 0.6   |       | 0.3     | 1.4     | 0.7     | 0.4     | 0.4   | 7.3      |
| Dogfish                   |       |         |         | 0.5   | 4303  | 0.6   |       | 3.4     | 183     | 0.7     | 1.3     | 1.3   | 6.1      |
| Animal food               |       | 11.6    |         |       |       | 81178 |       | 1,274,7 |         |         | 0110    | 1.5   | 11.6     |
| Reduction                 |       | 67.0    | 40.0    | 19.9  | 2.6   |       |       |         | 0.1     |         | 0.1     | 5.5   | 135.2    |
| 10000                     |       | 0,10    | 10.0    | 10.0  | 140   |       |       |         | 11.0    |         | 3.8     | 1.3   | 3133     |
| TOTAL                     | 283.6 | 2,325.7 | 2,728.1 | 840.3 | 226.2 | 326.5 | 142.3 | 960.9   | 1,323.4 | 1,199.1 | 1,060.6 | 263.7 | 11,680.4 |
| Баста сод                 | 123.4 | 901.85  | 125.3   | 13.0  | 224.3 | 300   | 72.5  | 515     | 69.3    | 44.5    | 17.5    | 0.6   | 1 660    |
|                           |       |         |         |       |       |       |       |         |         |         |         |       |          |
|                           |       |         |         |       |       |       |       |         |         |         |         |       |          |
|                           |       |         |         |       |       |       |       |         |         |         |         |       |          |
|                           |       |         |         |       |       |       |       |         |         |         |         |       |          |
|                           |       |         |         |       |       |       |       |         |         |         |         |       |          |
|                           |       |         |         |       |       |       |       |         |         |         |         |       |          |
|                           |       |         |         |       |       |       |       |         |         |         |         |       |          |
|                           |       |         |         |       |       |       |       |         |         |         |         |       |          |
|                           |       |         |         |       |       |       |       |         |         |         |         |       |          |
|                           |       |         |         |       |       |       |       |         |         |         |         |       |          |

Table 5. Tabb British Countries trainf lendings (0 - International area 30, southwest cosst Varicouver Island

- 42

Table 9. 1993 British Columbia trawl landings (t) - International area 3C, southwest coast Vancouver Island.

|                        | Jan   | Feb     | Mar   | Apr     | May     | Jun     | Jul     | Aug     | Sep     | Oct     | Nov     | Dec  |         |
|------------------------|-------|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|------|---------|
| English s.             | 0.4   | 3.8     | 3.2   | 4.2     | 25.5    | 7.9     | 12.9    | 10.6    | 14.7    | 15.2    | 6.8     |      | 105.    |
| Rock s.                | 3.9   | 18.7    | 12.6  | 2.5     | 14.1    | 5.0     | 13.7    | 3.9     | 3.4     | 1.6     | 0.3     |      | 79.     |
| Petrale s.             | 63.0  | 76.2    | 15.2  | 5.4     | 4.8     | 3.2     | 19.0    | 4.5     | 18.1    | 17.9    | 18.3    | 0.4  | 246.    |
| Dover s.               | 109.9 | 208.1   | 335.3 | 582.3   | 107.5   | 33.0    | 23.8    | 24.4    | 17.8    | 40.7    | 25.4    | 8.2  | 1,516.  |
| Rex sole               | 0.4   | 8.8     | 7.7   | 14.5    | 0.2     | 1.3     | 1.1     | 3.9     | 2.1     | 3.5     | 2.7     |      | 46.     |
| Starry fldr            | 6.9   | 6.3     | 0.4   |         | 0.1     |         |         |         |         | 1.4     |         |      | 15.     |
| Turbot                 | 12.7  | 11.5    | 93.8  | 122.8   | 55.9    | 27.3    | 40.9    | 1.1     | 22.4    | 12.3    | 2.4     | 1.1  | 404.    |
| Other flat.            | 1.6   | 3.7     | 1.6   |         | 0.3     |         | 0.2     | 2.2     | 0.7     | 0.8     | 3.3     |      | 14.     |
| Pacific cod            | 123.4 | 901.8   | 125.3 | 13.0    | 224.3   | 76.9    | 72.5    | 21.2    | 69.3    | 44.5    | 17.5    | 0.6  | 1,690.  |
| Lingcod                | 0.1   | 1.0     |       | 0.4     | 171.1   | 98.2    | 435.2   | 15.0    | 278.7   | 235.1   | 191.2   |      | 1,426.0 |
| Sablefish              | 7.9   | 40.9    | 17.7  | 15.1    | 14.6    | 12.2    | 27.7    | 7.9     | 17.8    | 45.8    | 3.8     | 1.3  | 212.    |
| Pollock                |       | 1.6     | 40.0  |         |         |         |         |         |         |         |         |      | 13(13)  |
| Hake                   |       |         |       |         | 354.9   | 911.8   | 1,231.6 | 1,274.7 | 2,212.0 | 1,095.8 | 871.8   |      | 7,952.  |
| Ocean perch            | 0.6   | 23.9    | 22.8  | 69.0    | 120.2   | 36.0    | 69.7    | 28.5    | 16.3    | 241.4   | 12.1    | 5.6  | 646.    |
| Other rockf.           | 213.1 | 331.4   | 79.6  | 147.7   | 311.4   | 210.4   | 236.6   | 127.6   | 180.3   | 287.5   | 81.4    | 18.3 | 2,225.  |
| Misc. sp.              | 0.8   | 2.0     | 1.2   | 0.8     | 2.2     | 0.8     | 2.3     | 2.5     | 14.1    | 1.2     | 0.6     |      | 28.     |
| Dogfish<br>Animal food |       | 2.0     |       |         | 6.0     | 0.7     |         |         | 6.4     |         |         |      | 15.     |
| Reduction              | 11.1  | 37.4    | 13.9  | 22.4    | 3.8     | 8.6     | 28.0    | 114.5   | 122.0   | 27.4    | 21.9    | 3.7  | 414.    |
| Sabbash                | 0.3   |         |       |         |         |         |         | 0.3     |         | 0.1     | 0.6     |      | 0.1     |
| TOTAL                  | 555.8 | 1,679.1 | 730.3 | 1,000.1 | 1,416.9 | 1,433.3 | 2,215.2 | 1,642.5 | 2,996.1 | 2,072.1 | 1,259.5 | 39.2 | 17,040. |
| Other Ref.             |       | 9.6     | 0.0   |         |         |         |         | 1.6     | -       |         |         |      | 51      |
|                        |       |         |       |         |         |         |         |         |         |         |         |      |         |
|                        |       |         |       |         |         |         |         |         |         |         |         |      |         |
|                        |       |         |       |         |         |         |         |         |         |         |         |      |         |
|                        |       |         |       |         |         |         |         |         |         |         |         |      |         |
|                        |       |         |       |         |         |         |         |         |         |         |         |      |         |
|                        |       |         |       |         |         |         |         |         |         |         |         |      |         |

- 43 -

Table 10. 1993 British Columbia trawl landings (t) of groundfish - International area 3D, northwest coast Vancouver Island.

|              | Jan   | Feb   | Mar   | Apr   | May     | Jun     | Jul   | Aug   | Sep   | Oct     | Nov   | Dec  |         |
|--------------|-------|-------|-------|-------|---------|---------|-------|-------|-------|---------|-------|------|---------|
| English s.   | 1.1   | 2.3   | 1.5   | 2.2   | 6.3     | 10.2    | 3.8   | 4.3   | 3.4   | 3.8     | 0.8   |      | 39.7    |
| Rock s.      | 0.1   | 3.0   | 0.8   | 1.7   | 7.9     | 8.8     | 6.7   | 2.4   | 0.6   | 2.1     | 0.6   |      | 34.7    |
| Petrale s.   | 10.0  | 18.4  | 14.7  | 8.6   | 5.3     | 15.8    | 8.3   | 6.8   | 6.5   | 8.2     | 2.5   | 0.6  | 105.7   |
| Dover s.     | 41.1  | 210.5 | 76.7  | 58.4  | 48.1    | 40.4    | 24.4  | 14.0  | 21.8  | 39.1    | 10.0  |      | 584.5   |
| Rex sole     | 0.6   | 0.5   | 0.7   | 0.4   | 1.2     | 1.2     |       | 0.3   |       | 0.5     |       |      | 5.4     |
| Starry fldr  |       |       |       |       | 0.1     |         |       |       |       | 0.3     |       |      | 0.4     |
| Turbot       | 5.0   | 30.7  | 27.7  | 314.5 | 643.5   | 220.4   | 81.6  | 93.2  | 231.8 | 135.2   | 3.6   |      | 1,787.2 |
| Other flat.  |       |       |       |       |         |         |       | 0.1   |       | 0.3     | 0.1   |      | 0.5     |
| Pacific cod  | 19.6  | 38.2  | 86.3  | 89.4  | 157.2   | 255.6   | 47.2  | 65.9  | 30.0  | 37.6    | 6.1   | 0.1  | 833.2   |
| Lingcod      | 0.6   | 0.8   |       | 4.7   | 63.9    | 117.8   | 49.5  | 55.3  | 30.9  | 104.5   | 19.1  |      | 447.1   |
| Sablefish    | 5.5   | 28.0  | 4.7   | 6.8   | 11.6    | 12.3    | 19.0  | 9.9   | 8.2   | 26.0    | 5.8   | 0.4  | 138.2   |
| Pollock      |       |       |       |       |         |         | 0.6   |       |       | 0.5     |       |      | 1.1     |
| Hake         |       |       |       |       |         |         |       |       |       |         |       |      |         |
| Ocean perch  | 142.2 | 82.5  | 26.5  | 79.8  | 136.5   | 67.2    | 69.1  | 31.1  | 36.7  | 266.1   | 40.9  | 2.1  | 980.7   |
| Other rockf. | 591.1 | 429.4 | 180.0 | 301.1 | 322.6   | 307.1   | 387.9 | 227.3 | 235.1 | 1,697.1 | 228.3 | 9.1  | 4,916.1 |
| Misc. sp.    |       | 0.1   |       | 0.1   | 0.3     | 1.1     | 0.5   |       |       | 0.3     |       |      | 2.4     |
| Dogfish      |       |       | 13.8  | 20.5  |         | 0.5     |       |       |       |         |       |      | 34.8    |
| Animal food  |       |       |       | 0.1   |         |         |       |       |       | 0.3     |       |      | 0.4     |
| Reduction    | 2.6   | 8.7   | 1.6   | 10.7  | 29.2    | 11.7    | 7.9   | 3.7   | 0.2   | 0.5     | 0.9   | 0.2  | 77.9    |
| TOTAL        | 819.5 | 853.1 | 435.0 | 899.0 | 1,433.7 | 1,070.1 | 706.5 | 514.3 | 605.2 | 2,322.4 | 318.7 | 12.5 | 9,990.0 |
| mulipod      | 22.4  | 69,2  | 58,1  | 53/8  | 80%     | 003     | 86.1  | 61.8  | 63.7  | 50.4    | 20.6  | 34.9 | 671.5   |
|              |       |       |       |       |         |         |       |       |       |         |       |      |         |
|              |       |       |       |       |         |         |       |       |       |         |       |      |         |
|              |       |       |       |       |         |         |       |       |       |         |       |      |         |
|              |       |       |       |       |         |         |       |       |       |         |       |      |         |
|              |       |       |       |       |         |         |       |       |       |         |       |      |         |
|              |       |       | . 03  |       |         |         |       |       |       |         |       |      |         |
|              |       |       | 4.8   |       |         |         |       |       |       |         |       |      |         |
|              |       |       |       |       |         |         |       |       |       |         |       |      |         |
|              |       |       | 5.1   |       |         |         |       |       |       |         |       |      |         |
|              |       |       |       |       |         |         |       |       |       |         |       |      |         |

TRUE 11, 1993 present columnia trave unicings (I) of groundlish - Informational area, 5/1, south Queen Charlotte Source

- 44 .

Table 11. 1993 British Columbia trawl landings (t) of groundfish - International area 5A, south Queen Charlotte Sound.

|              | Jan   | Feb   | Mar   | Apr   | May     | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec  |         |
|--------------|-------|-------|-------|-------|---------|-------|-------|-------|-------|-------|-------|------|---------|
| English s.   | 2.8   | 3.0   | 2.1   | 5.1   | 8.8     | 10.0  | 4.7   | 3.5   | 4.7   | 3.5   | 3.5   | 0.2  | 51.9    |
| Rock s.      | 1.8   | 8.8   | 6.4   | 24.3  | 105.2   | 157.9 | 63.7  | 40.6  | 18.1  | 26.4  | 3.3   | 0.2  | 456.7   |
| Petrale s.   | 1.1   | 0.6   | 4.6   | 0.7   | 2.8     | 1.9   | 3.5   | 1.8   | 3.7   | 2.7   | 1.5   | 0.3  | 25.2    |
| Dover s.     | 0.1   | 0.3   | 0.2   | 0.2   | 4.0     | 11.6  | 12.0  | 6.0   | 8.1   | 6.3   | 3.7   | 3.7  | 56.2    |
| Rex sole     |       |       | 0.7   |       |         | 0.1   |       |       |       |       | 0.5   |      | 1.3     |
| Starry fldr  |       |       |       |       |         |       |       |       | 0.3   |       |       |      | 0.3     |
| Γurbot       | 0.8   | 1.2   |       | 0.5   | 8.6     | 146.4 | 85.5  | 53.9  | 80.2  | 9.3   | 1.4   |      | 387.8   |
| Other flat.  |       |       | 0.5   | 0.6   |         |       |       |       |       | 0.1   |       |      | 1.2     |
| Pacific cod  | 27.4  | 41.2  | 16.3  | 95.7  | 258.3   | 121.6 | 76.9  | 68.3  | 26.2  | 43.9  | 27.1  | 3.1  | 806.0   |
| Lingcod      | 22.4  | 69.2  | 58.1  | 27.6  | 90.9    | 86.2  | 86.1  | 61.8  | 63.7  | 50.4  | 20.6  | 34.9 | 671.9   |
| Sablefish    | 0.2   |       |       | 0.1   | 0.6     | 3.0   | 3.0   | 0.8   | 0.1.1 | 0.9   | 0.5   |      | 10.2    |
| Pollock      | 96.8  | 77.0  | 2.6   | 17.7  | 19.7    | 13.4  | 4.1   | 20.6  | 4.5   | 4.4   | 2.5   | 37.3 | 300.6   |
| Hake         |       |       |       |       |         |       |       |       |       |       |       |      |         |
| Ocean perch  | 45.6  | 13.6  | 2.0   | 15.5  | 48.1    | 42.1  | 46.2  | 8.8   | 21.1  | 69.0  | 15.4  | 0.1  | 327.    |
| Other rockf. | 740.6 | 371.4 | 54.6  | 303.8 | 479.4   | 354.2 | 236.3 | 122.3 | 253.5 | 572.2 | 203.7 | 14.5 | 3,706.  |
| Misc. sp.    | 0.1   | 0.1   | 1.6   | 4.7   | 1.1     | 1.6   | 0.3   | 0.4   | 1.2   | 0.5   | 0.2   | 0.1  | 11.9    |
| Dogfish      |       |       |       |       |         |       |       |       |       |       |       |      |         |
| Animal food  |       |       |       | 0.1   | 0.4     |       | 0.2   |       | 0.9   | 0.1   |       |      | 1.      |
| Reduction    | 7.0   | 2.3   | 0.3   | 1.3   | 4.1     | 9.7   | 3.7   | 8.4   | 0.4   | 0.5   | 0.7   | 0.6  | 39.0    |
| TOTAL        | 946.7 | 588.7 | 150.0 | 497.9 | 1,032.0 | 959.7 | 626.2 | 397.2 | 487.7 | 790.2 | 284.6 | 95.0 | 6,855.9 |
| IOIAL        |       | 20.0  | 150.0 |       |         |       |       |       | 30'8  | 700.2 | 204.0 | 30.0 | 0,000.  |
|              |       |       |       |       |         |       |       |       |       |       |       |      |         |
|              |       |       |       |       |         |       |       |       |       |       |       |      |         |
|              |       |       |       |       |         |       |       |       |       |       |       |      |         |
|              |       |       |       |       |         |       |       |       |       |       |       |      |         |
|              |       |       |       |       |         |       |       |       |       |       |       |      |         |
|              |       |       |       |       |         |       |       |       |       |       |       |      |         |
|              |       |       |       |       |         |       |       |       |       |       |       |      |         |
|              |       |       |       |       |         |       |       |       |       |       |       |      |         |
|              |       |       |       |       |         |       |       |       |       |       |       |      |         |
|              |       |       |       |       |         |       |       |       |       |       |       |      |         |
|              |       |       |       |       |         |       |       |       |       |       |       |      |         |

table 10. 1993 trainsh Columbia travit landings (I) of groundfish - International area 30, northwest coast Vancouver Jetens

1

Table 12. 1993 British Columbia trawl landings (t) - International area 5B, north Queen Charlotte Sound.

|              | Jan   | Feb   | Mar   | Apr . | May     | Jun     | Jul     | Aug   | Sep   | Oct     | Nov   | Dec  |         |
|--------------|-------|-------|-------|-------|---------|---------|---------|-------|-------|---------|-------|------|---------|
| English s.   |       | 0.3   | 1.0   | 4.4   | 8.4     | 10.7    | 17.9    | 8.9   | 10.3  | 11.7    | 1.4   |      | 75.0    |
| Rock s.      | 1.0   | 0.3   | 2.0   | 6.0   | 12.2    | 78.0    | 111.8   | 37.7  | 54.0  | 37.1    | 2.5   |      | 342.6   |
| Petrale s.   | 10.3  | 3.3   | 5.0   | 22.3  | 2.6     | 9.9     | 7.8     | 7.2   | 5.9   | 4.7     | 1.7   | 0.1  | 80.8    |
| Dover s.     | 8.7   | 1.7   | 11.4  | 16.6  | 16.1    | 86.2    | 19.2    | 30.0  | 19.4  | 39.3    | 27.3  | 3.5  | 279.4   |
| Rex sole     | 0.1   |       |       | 0.1   |         | 0.5     |         |       |       | 0.5     | 0.2   |      | 1.4     |
| Starry fldr  |       |       |       |       |         |         |         |       | 1.1   |         |       |      | 1.1     |
| Turbot       | 88.1  | 225.0 | 77.6  | 0.1   | 306.8   | 57.7    | 91.6    | 31.9  | 46.3  | 77.2    | 8.8   | 26.8 | 1,037.9 |
| Other flat.  |       |       |       |       | 0.7     |         |         |       | 1.3   |         |       |      | 2.0     |
| Pacific cod  | 26.9  | 1.1   | 10.9  | 20.2  | 199.4   | 208.9   | 84.1    | 19.0  | 27.8  | 27.5    | 4.5   | 5.1  | 635.4   |
| Lingcod      | 1.2   | 51.9  | 30.0  | 75.7  | 58.7    | 102.6   | 143.9   | 179.6 | 55.4  | 44.2    | 3.6   | 0.4  | 747.2   |
| Sablefish    | 0.6   | 1.2   | 1.6   | 0.4   | 0.9     | 11.5    | 6.6     | 4.6   | 2.4   | 6.0     | 1.4   | 0.5  | 37.7    |
| Pollock      |       |       |       |       | 1.2     |         | 1.2     |       | 2.2   | 4.5     | 0.5   | 11.9 | 21.5    |
| Hake         |       |       |       |       |         | 0.6     |         |       |       |         |       |      | 0.6     |
| Ocean perch  | 71.7  | 29.2  | 1.5   | 43.8  | 95.4    | 907.9   | 99.1    | 33.7  | 41.4  | 187.0   | 41.0  | 1.0  | 1,552.7 |
| Other rockf. | 96.5  | 179.8 | 59.0  | 187.1 | 434.5   | 515.7   | 422.3   | 200.2 | 296.0 | 648.1   | 148.0 | 27.7 | 3,214.9 |
| Misc. sp.    |       | 0.4   |       | 1.1   | 3.3     | 12.4    | 0.9     | 0.1   | 0.1   | 0.3     | 0.2   |      | 18.8    |
| Dogfish      |       |       |       |       |         |         |         |       |       |         |       |      |         |
| Animal food  |       |       | 0.2   | 0.2   | 0.3     | 0.5     |         |       | 0.9   | 0.1     |       |      | 2.2     |
| Reduction    | 1.2   | 0.5   | 0.5   | 3.4   | 10.1    | 13.2    | 16.9    | 8.0   |       | 2.2     | 0.9   |      | 49.7    |
| Ocean perch  | 4.0   | 3.0   | 3.6   | 10.0  |         |         |         |       |       |         | 0.0   | 72.5 |         |
| TOTAL        | 306.3 | 494.7 | 200.7 | 381.4 | 1,150.6 | 2,016.3 | 1,023.3 | 553.7 | 564.5 | 1,090.4 | 242.0 | 77.0 | 8,100.9 |
|              |       |       |       |       |         |         |         |       |       |         |       |      |         |
|              |       |       |       |       |         |         |         |       |       |         |       |      |         |
|              |       |       |       |       |         |         |         |       |       |         |       |      |         |
|              |       |       |       |       |         |         |         |       |       |         |       |      |         |
|              |       |       |       |       |         |         |         |       |       |         |       |      |         |
|              |       |       |       |       |         |         |         |       |       |         |       |      |         |
|              |       |       |       |       |         |         |         |       |       |         |       |      |         |
|              |       |       |       |       |         |         |         |       |       |         |       |      |         |
|              |       |       |       |       |         |         |         |       |       |         |       |      |         |
|              |       |       |       |       |         |         |         |       |       |         |       |      |         |
|              |       |       |       |       |         |         |         |       |       |         |       |      |         |
|              |       |       |       |       |         |         |         |       |       |         |       |      |         |
|              |       |       |       |       |         |         |         |       |       |         |       |      |         |

- 46 -

Table 13. 1993 British Columbia trawl landings (t) of groundfish - International area 5C, south Hecate Strait.

|              | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec  |         |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|---------|
| English s.   | 1.6   | 9.4   | 15.2  | 11.4  | 7.5   | 14.1  | 6.0   | 14.5  | 39.0  | 12.8  | 10.5  | 2.6  | 144.6   |
| Rock s.      | 3.7   | 17.1  | 62.7  | 189.7 | 110.4 | 114.5 | 33.2  | 22.3  | 30.3  | 9.9   | 10.9  |      | 604.7   |
| Petrale s.   | 0.1   | 0.2   | 0.6   | 1.1   | 2.6   | 17.5  | 7.8   | 4.6   | 5.5   | 4.5   | 5.5   | 0.4  | 50.4    |
| Dover s.     | 0.2   |       | 1.6   | 2.9   | 6.9   | 43.9  | 41.1  | 9.0   | 10.1  | 31.0  | 59.7  | 1.0  | 207.4   |
| Rex sole     | 1.8   | 0.4   | 0.4   | 0.9   | 1.2   | 3.7   | 1.5   | 0.3   | 1.0   | 4.7   | 5.2   | 0.8  | 21.9    |
| Starry fldr  |       |       | 0.1   | 0.3   | 4.4   | 0.4   |       | 0.4   | 0.7   | 0.1   |       |      | 6.4     |
| Turbot       |       |       |       |       |       | 2.1   | 13.5  |       |       | 0.1   |       |      | 15.7    |
| Other flat.  |       | 4.8   | 10.6  | 22.8  | 9.8   | 11.2  |       |       | 1.3   | 0.3   | 0.6   | 0.2  | 61.6    |
| Pacific cod  | 34.5  | 225.8 | 519.4 | 318.1 | 22.0  | 142.9 | 40.7  | 21.5  | 40.8  | 20.3  | 7.6   | 2.1  | 1,395.7 |
| Lingcod      | 1.6   | 9.4   | 11.1  | 13.5  | 9.2   | 50.2  | 43.6  | 25.5  | 6.9   | 8.4   | 26.6  | 0.8  | 206.8   |
| Sablefish    | 0.2   |       |       | 0.3   | 0.7   | 3.3   | 4.3   | 0.4   | 1.4   | 10.2  | 2.4   | 0.1  | 23.3    |
| Pollock      |       | 0.6   |       | 3.2   | 2.7   | 1.3   |       | 0.7   | 3.5   | 2.8   | 3.3   | 0.2  | 18.3    |
| Hake         |       |       |       |       |       |       |       |       |       |       | 0.0   | 0.2  |         |
| Ocean perch  | 1.9   | 3.0   | 3.6   | 43.8  | 32.3  | 228.2 | 38.5  | 5.8   | 8.0   | 88.7  | 15.6  | 2.2  | 471.6   |
| Other rockf. | 41.2  | 39.2  | 11.4  | 109.3 | 57.6  | 132.4 | 66.6  | 19.1  | 42.0  | 97.0  | 64.0  | 22.5 | 702.3   |
| Misc. sp.    | 0.3   | 3.1   | 0.6   | 3.6   | 1.9   | 0.9   | 1.5   | 0.2   | 1.2   | 0.4   | 0.8   |      | 14.5    |
| Dogfish      |       |       |       |       |       |       |       |       |       |       | 0.3   |      |         |
| Animal food  |       | 0.1   | 0.4   | 0.5   | 0.1   | 1.8   | 3.0   | 1.6   | 1.4   | 0.4   | 0.4   |      | 9.7     |
| Reduction    |       | 0.4   |       | 4.0   |       | 7.3   |       |       |       |       | 41.0  |      | 11.7    |
| Conner perch | 71.77 | 29.2  | 1.8   | 43.8  | 95.4  | 003.0 |       |       |       |       |       |      | 0.0     |
| TOTAL        | 87.1  | 313.5 | 637.7 | 725.4 | 269.3 | 775.7 | 301.3 | 125.9 | 193.1 | 291.6 | 213.1 | 32.9 | 3,966.6 |
|              |       |       |       |       |       |       |       | 179.8 | 55.4  | 94'5  | 3.6   | 0.4  | 247.3   |
|              |       |       |       |       |       |       |       |       |       |       |       |      |         |
|              |       |       |       |       |       |       |       |       |       |       |       |      |         |
|              |       |       |       |       |       |       |       |       |       |       |       |      |         |
|              |       |       |       |       |       |       |       |       |       |       |       |      |         |
|              |       |       |       |       |       |       |       |       |       |       |       |      |         |
|              |       |       |       |       |       |       |       |       |       |       |       |      |         |
|              | 8.7   |       |       |       |       |       |       |       |       |       |       |      |         |
|              |       |       |       |       |       |       |       |       |       |       |       |      |         |
|              |       |       |       |       |       |       |       |       |       |       |       |      |         |
|              |       |       |       |       |       |       |       |       |       |       |       |      |         |
|              |       |       |       |       |       |       |       |       |       |       |       |      |         |

- 47 -

Table 14. 1993 British Columbia trawl landings (t) of groundfish - International area 5D, north Hecate Strait.

|              | Jan   | Feb   | Mar   | Apr     | May     | Jun     | Jul   | Aug   | Sep     | Oct     | Nov     | Dec     |          |
|--------------|-------|-------|-------|---------|---------|---------|-------|-------|---------|---------|---------|---------|----------|
| English s.   | 43.9  | 92.2  | 121.2 | 164.7   | 207.6   | 142.6   | 114.9 | 76.1  | 79.2    | 70.7    | 127.5   | 47.6    | 1,288.2  |
| Rock s.      | 41.8  | 54.4  | 88.4  | 169.3   | 222.4   | 261.0   | 137.4 | 75.0  | 122.1   | 165.0   | 94.9    | 44.0    | 1,475.7  |
| Petrale s.   | 0.2   | 0.2   | 0.1   | 0.2     | 1.6     | 0.5     | 0.9   | 1.6   | 2.3     | 3.3     | 2.9     | 0.9     | 14.7     |
| Dover s.     |       |       | 0.1   | 0.5     | 7.8     | 64.8    | 131.9 | 109.0 | 161.6   | 115.5   | 55.9    | 2.1     | 649.2    |
| Rex sole     | 0.8   | 1.7   | 1.7   | 1.6     | 5.8     | 4.1     | 10.1  | 9.8   | 19.2    | 20.0    | 31.1    | 7.5     | 113.4    |
| Starry fldr  | 0.2   | 0.4   | 0.3   | 9.8     | 19.0    | 5.6     | 8.7   | 7.2   | 11.1    | 2.7     | 2.0     | 5.8     | 72.8     |
| Turbot       |       | 5.6   |       | 6.4     | 19.9    | 83.8    | 63.7  |       | 29.2    | 26.5    | 94.7    | 7.7     | 337.5    |
| Other flat.  | 2.9   | 4.1   | 4.2   | 9.0     | 18.4    | 35.0    | 14.6  | 5.4   | 34.1    | 13.0    | 15.7    | 3.3     | 159.7    |
| Pacific cod  | 75.7  | 94.1  | 343.1 | 632.3   | 460.1   | 276.8   | 164.3 | 141.6 | 140.2   | 86.7    | 113.5   | 38.6    | 2,567.0  |
| Lingcod      | 22.6  | 18.4  | 20.6  | 25.2    | 29.2    | 26.3    | 11.8  | 6.3   | 24.2    | 23.3    | 28.1    | 12.4    | 248.4    |
| Sablefish    |       |       |       | 0.1     | 4.0     | 0.5     | 2.3   | 1.8   | 5.8     | 9.2     | 1.8     | 0.2     | 25.7     |
| Pollock      | 4.2   | 7.1   | 62.2  | 14.0    | 55.7    | 37.6    | 176.1 | 199.5 | 278.9   | 449.7   | 2,251.6 | 870.7   | 4,407.3  |
| Hake         |       |       |       |         |         |         |       |       |         |         |         | 0.0     | 1,101.0  |
| Ocean perch  |       | 0.8   | 1.3   |         | 3.5     | 9.5     | 16.7  | 0.9   | 4.1     | 18.0    | 16.6    | 11.5    | 82.9     |
| Other rockf. | 58.9  | 30.0  | 20.9  | 33.0    | 151.0   | 61.6    | 43.8  | 17.9  | 95.9    | 233.8   | 191.9   | 81.9    | 1,020.6  |
| Misc. sp.    | 1.3   | 10.1  | 8.1   | 12.8    | 6.9     | 4.2     | 1.9   | 2.0   | 5.4     | 9.1     | 10.9    | 1.9     | 74.6     |
| Dogfish      |       |       |       |         |         |         |       |       |         |         |         |         | 0.30     |
| Animal food  |       | 0.1   | 0.8   | 4.5     | 8.2     | 9.1     | 7.6   | 19.2  | 12.9    | 15.3    | 31.1    | 3.9     | 112.7    |
| Reduction    | 0.4   | 0.4   |       |         |         | 9.6     | 0.3   |       | 18.2    | 2.4     | 12.2    | 4.5     | 29.8     |
| TOTAL        | 252.9 | 319.6 | 673.0 | 1,083.4 | 1,221.1 | 1,032.6 | 907.0 | 673.3 | 1,026.2 | 1,264.2 | 3,082.4 | 1,144.5 | 12,680.2 |
|              |       |       |       |         |         |         |       | 0.7   | 0.7     | 0.9     | 0.3     | 1.8     | 10.0     |
|              |       |       |       |         |         |         |       |       |         |         |         |         |          |
|              |       |       |       |         |         |         |       |       |         |         |         |         |          |
|              |       |       |       |         |         |         |       |       |         |         |         |         |          |
|              |       |       |       |         |         |         |       |       |         |         |         |         |          |
|              |       |       |       |         |         |         |       |       |         |         |         |         |          |
|              |       |       |       |         |         |         |       |       |         |         |         |         |          |
|              |       |       |       |         |         |         |       |       |         |         |         |         |          |
|              |       |       |       |         |         |         |       |       |         |         |         |         |          |
|              |       |       |       |         |         |         |       |       |         |         |         |         |          |

- 48

Table 15. 1993 British Columbia trawl landings (t) of groundfish - International area 5E, west coast Queen Charlotte Islands.

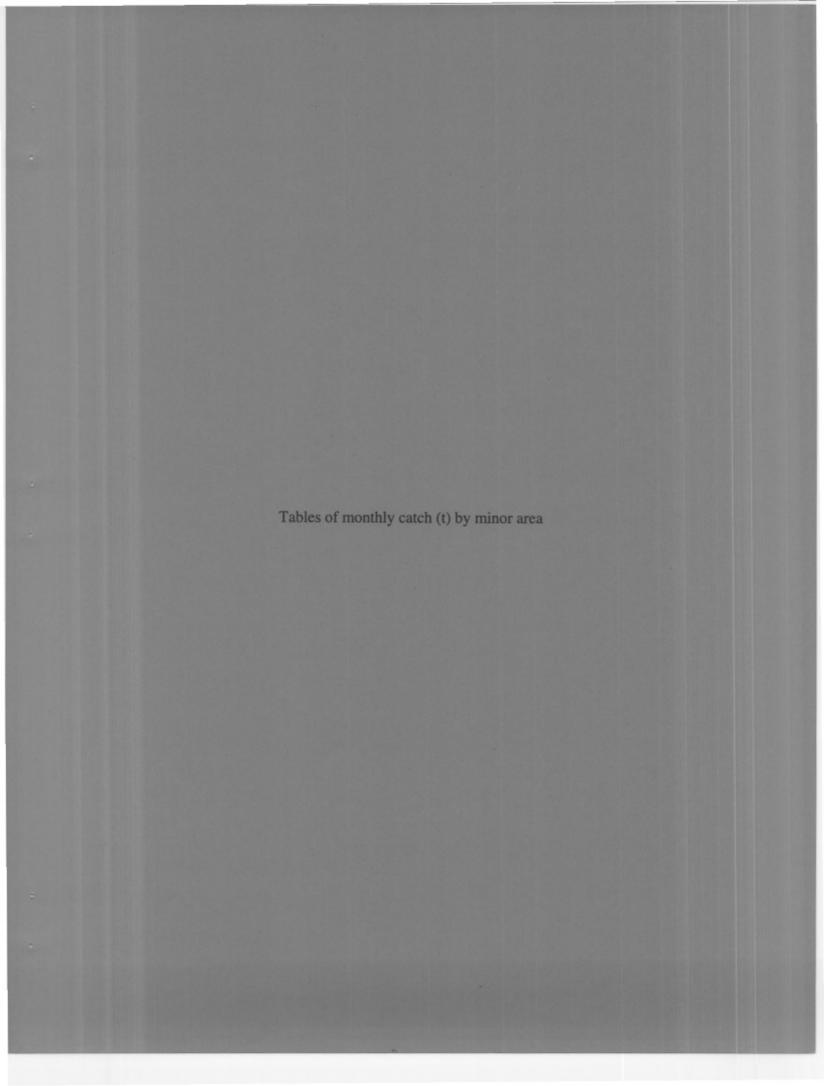
Jan Feb Mar Apr May Jun Jul Aug Sep Oct

|                       | Jan   | Feb   | Mar   | Apr     | May   | Jun     | Jul   | Aug   | Sep     | Oct     | Nov   | Dec   |         |
|-----------------------|-------|-------|-------|---------|-------|---------|-------|-------|---------|---------|-------|-------|---------|
| English s.            |       |       |       |         | 0.2   |         |       |       |         |         |       |       | 0.2     |
| Rock s.               |       |       |       |         | 0.2   |         |       |       |         |         |       |       | 0.2     |
| Petrale s.            | 1.1   | 3.6   | 3.2   | 28.3    | 11.1  | 0.7     |       |       | 0.1     | 0.6     | 0.6   | 0.2   | 49.5    |
| Dover s.              | 3.9   | 111.0 | 84.6  | 280.7   | 141.4 | 8.6     | 6.3   | 0.1   | 1.8     | 6.9     | 3.5   | 3.4   | 652.2   |
| Rex sole              | 0.5   | 8.1   | 1.4   | 12.4    | 9.3   | 10.4    | 3.4   | 0.5   | 0.2     | 0.8     | 1.7   | 1.8   | 50.5    |
| Starry fldr           |       |       |       |         |       |         |       |       |         |         |       |       |         |
| Turbot<br>Other flat. | 12.1  | 28.6  | 2.5   | 3.3     | 0.5   |         |       |       |         |         |       |       | 47.0    |
| Pacific cod           | 1.3   |       | 0.5   | 0.4     | 4.0   |         |       | 0.4   | 0.1     | 0.2     |       |       | 6.9     |
| Lingcod               | 0.8   |       | 0.4   | 0.7     | 2.1   | 1.5     | 0.1   | 0.7   | 0.7     | 0.9     | 0.2   | 1.9   | 10.0    |
| Sablefish             | 2.4   | 16.9  | 7.6   | 12.9    | 9.5   | 5.4     | 8.5   | 3.1   | 2.6     | 12.7    | 8.3   | 2.8   | 92.7    |
| Pollock               | 252.9 | 0.1   | 673.0 | 1,083.4 | 13511 | 1,032,6 | 801.0 | 673.3 | 1 036.2 | 1.264.2 | 1.3   | 0.6   | 2.0     |
| Hake                  |       |       |       |         |       |         |       |       |         |         | 1.0   | 0.0   | 2.0     |
| Ocean perch           | 77.5  | 41.2  | 19.4  | 70.2    | 45.0  | 24.7    | 31.5  | 19.1  | 16.2    | 105.6   | 21.1  | 24.3  | 495.8   |
| Other rockf.          | 202.4 | 127.1 | 167.2 | 370.8   | 289.3 | 242.3   | 150.6 | 121.7 | 138.9   | 385.4   | 235.1 | 190.9 | 2,621.7 |
| Misc. sp.             |       |       |       |         | 0.4   |         |       |       |         |         |       |       | 0.4     |
| Dogfish               |       |       |       |         |       |         |       |       |         |         |       |       | 197     |
| Animal food           |       |       |       | 1.6     | 0.6   | 1.0     | 1.4   | 0.5   | 1.1     | 3.6     | 0.6   |       | 10.4    |
| Reduction             | 0.1   |       |       |         | 9.3   | 1.1     |       |       |         | 0.4     | 1.1   | 0.2   | 12.2    |
| TOTAL                 | 302.1 | 336.6 | 286.8 | 781.3   | 522.9 | 295.7   | 201.8 | 146.1 | 161.7   | 517.1   | 273.5 | 226.1 | 4,051.7 |
| Saharah               | 22.6  | 18.4  | 50'8  | 25.2    | 26.2  | 26.3    | 11,8  | 8.3   | 54'3    | 23/3    | 28.1  | 15.4  | 248.4   |
|                       |       |       |       |         |       |         |       |       |         |         |       |       |         |
|                       |       |       |       |         |       |         |       |       |         |         |       |       |         |
|                       |       |       |       |         |       |         |       |       |         |         |       |       |         |
|                       |       |       |       |         |       |         |       |       |         |         |       |       | 131     |
|                       |       |       |       |         |       |         |       |       |         |         |       |       |         |
|                       |       |       |       |         |       |         |       |       |         |         |       |       |         |
|                       |       |       |       |         |       |         |       |       |         |         |       |       |         |
|                       |       |       |       |         |       |         |       |       |         |         |       |       |         |
|                       |       |       |       |         |       |         |       |       |         |         |       |       |         |
|                       |       |       |       |         |       |         |       |       |         |         |       |       |         |

- 49

Table 16. 1993 British Columbia trawl landings (t) of groundfish - coastwide total.

|              | Jan     | Feb     | Mar     | Apr     | May     | Jun     | Jul     | Aug     | Sep     | Oct     | Nov     | Dec     |          |
|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| English s.   | 54.0    | 129.2   | 150.6   | 199.9   | 269.4   | 198.8   | 160.2   | 118.6   | 152.6   | 124.7   | 157.5   | 54.3    | 1,769.8  |
| Rock s.      | 56.2    | 105.4   | 174.4   | 396.7   | 474.0   | 626.1   | 366.5   | 181.9   | 228.7   | 243.4   | 113.5   | 47.4    | 3,014.2  |
| Petrale s.   | 89.8    | 104.0   | 43.5    | 66.7    | 31.3    | 49.7    | 47.3    | 26.5    | 42.1    | 41.9    | 33.0    | 2.9     | 578.7    |
| Dover s.     | 165.6   | 533.7   | 509.9   | 941.6   | 334.0   | 288.5   | 259.8   | 195.5   | 241.1   | 280.3   | 185.5   | 21.9    | 3,957.4  |
| Rex sole     | 4.2     | 19.6    | 12.6    | 29.9    | 17.7    | 21.3    | 16.1    | 14.8    | 22.5    | 30.0    | 41.4    | 10.1    | 240.2    |
| Starry fldr  | 8.3     | 10.0    | 1.8     | 11.1    | 23.9    | 6.1     | 8.7     | 7.6     | 13.2    | 4.6     | 2.6     | 6.8     | 104.7    |
| Turbot       | 119.7   | 302.6   | 201.6   | 447.6   | 1,035.2 | 537.7   | 376.8   | 181.7   | 409.9   | 260.6   | 110.9   | 35.6    | 4,019.9  |
| Other flat.  | 4.5     | 15.1    | 17.4    | 32.4    | 29.2    | 46.2    | 14.8    | 7.7     | 37.4    | 14.5    | 19.7    | 3.7     | 242.6    |
| Pacific cod  | 316.4   | 1,383.2 | 1,110.0 | 1,171.9 | 1,328.7 | 1,083.3 | 485.7   | 341.2   | 373.5   | 264.8   | 181.2   | 52.5    | 8,092.4  |
| Lingcod      | 49.3    | 150.7   | 120.2   | 147.8   | 425.1   | 482.8   | 770.2   | 344.5   | 460.5   | 466.9   | 289.9   | 50.4    | 3,758.3  |
| Sablefish    | 17.0    | 87.5    | 31.6    | 35.7    | 41.9    | 48.2    | 71.4    | 28.5    | 39.3    | 110.8   | 24.0    | 5.3     | 541.2    |
| Pollock      | 352.7   | 1,644.7 | 1,102.5 | 161.2   | 79.3    | 52.3    | 182.0   | 220.8   | 289.1   | 461.9   | 2,261.0 | 1,166.0 | 7,973.5  |
| Hake         |         | 569.7   | 1,632.4 | 678.5   | 562.3   | 1,233.1 | 1,372.8 | 2,223.0 | 3,492.8 | 2,280.1 | 1,914.4 |         | 15,959.1 |
| Ocean perch  | 343.8   | 194.2   | 77.1    | 322.1   | 481.0   | 1,315.6 | 370.8   | 127.9   | 143.8   | 975.8   | 162.7   | 46.8    | 4,561.6  |
| Other rockf. | 1,947.0 | 1,513.5 | 572.7   | 1,452.9 | 2,048.4 | 1,823.7 | 1,544.1 | 836.1   | 1,241.7 | 3,921.1 | 1,152.8 | 364.9   | 18,418.9 |
| Misc. sp.    | 3.1     | 17.4    | 11.8    | 23.6    | 16.6    | 21.6    | 7.4     | 5.5     | 23.4    | 12.5    | 13.1    | 2.4     | 158.4    |
| Dogfish      |         | 2.0     | 13.8    | 20.5    | 6.0     | 1.3     |         | 3.4     | 6.4     |         | 1.3     | 1.3     | 56.0     |
| Animal food  |         | 11.8    | 1.4     | 7.0     | 9.6     | 12.4    | 12.2    | 21.3    | 17.2    | 19.8    | 32.1    | 3.9     | 148.7    |
| Reduction    | 22.4    | 116.7   | 56.3    | 61.7    | 59.1    | 61.2    | 56.8    | 127.4   | 122.7   | 33.4    | 37.8    | 14.7    | 770.2    |
| TOTAL        | 3,554.0 | 6,911.0 | 5,841.6 | 6,208.8 | 7,272.7 | 7,909.9 | 6,123.6 | 5,013.9 | 7,357.9 | 9,547.1 | 6,734.4 | 1,890.9 | 74,365.8 |



4

Table 17. 1993 British Columbia trawl landings (t) of groundfish from statistical area 12,

| phydro etc              | Jan   | Feb     | Mar     | Apr   | May   | Jun   | Jul | Aug | Sep | Oct | Nov | Dec   | Total   |
|-------------------------|-------|---------|---------|-------|-------|-------|-----|-----|-----|-----|-----|-------|---------|
| English s.<br>Rock sole | 100   | 35379   | 0.3     |       | \$40' | 176.2 |     |     |     |     |     |       |         |
| Petrale s.              |       |         |         |       |       |       |     |     |     |     |     |       |         |
| Dover sole              |       |         |         |       |       |       |     |     |     |     |     |       |         |
| Rex sole                |       |         |         |       |       |       |     |     |     |     |     |       |         |
| Butter sole             |       |         |         |       |       |       |     |     |     |     |     |       |         |
| Flathead s.             |       |         |         |       |       |       |     |     |     |     |     |       |         |
| Sand sole               |       |         |         |       |       |       |     |     |     |     |     |       |         |
| Turbot                  |       |         |         |       |       |       |     |     |     |     |     |       |         |
| Starry fldr             |       |         |         |       |       |       |     |     |     |     |     |       |         |
| Other flat.             |       |         |         |       |       |       |     |     |     |     |     |       |         |
| Pacific cod             | 0.3   | 0.2     |         |       |       |       |     |     |     |     |     |       | 0.5     |
| Lingcod<br>Sablefish    |       |         |         |       |       |       |     |     |     |     |     |       | 1,312,8 |
| Pollock                 | 251.7 | 1,558.2 | 1,037.1 | 126.3 |       |       |     |     |     |     | 1.8 | 245.3 | 3,220.4 |
| Ocean perch             |       |         |         |       |       |       |     |     |     |     |     |       |         |
| Bocaccio                | 0.1   | 0.1     |         | 0.1   |       |       |     |     |     |     |     |       | 0.3     |
| Canary rf               |       |         |         |       |       |       |     |     |     |     |     |       |         |
| Redstripe r             |       |         |         |       |       |       |     |     |     |     |     |       |         |
| Rougheye rf             |       |         |         |       |       |       |     |     |     |     |     |       |         |
| Silvergray              |       | 0.1     |         |       |       |       |     |     |     |     |     |       | 0.1     |
| Yel'mouth r             |       |         |         |       |       |       |     |     |     |     |     |       | *       |
| Yellowtail              |       | 1.3     |         |       |       |       |     |     |     |     |     |       | 1.3     |
| Widow rf                |       |         |         |       |       |       |     |     |     |     |     |       |         |
| Other rf                |       | 0.1     |         |       |       |       |     |     |     |     |     |       | 0.1     |
| SERVER!                 |       |         |         |       |       |       |     |     |     |     |     |       |         |
| Hake                    |       |         |         |       |       |       |     |     |     |     |     |       |         |
| Octopus<br>Perch        |       |         |         |       |       |       |     |     |     |     |     |       |         |
| Skate                   |       |         |         |       |       |       |     |     |     |     |     |       |         |
| Squid                   |       |         |         |       |       |       |     |     |     |     |     |       |         |
| Sturgeon                |       |         |         |       |       |       |     |     |     |     |     |       |         |
| Misc. sp.               |       |         |         |       |       |       |     |     |     |     |     |       |         |
| Dogfish                 |       |         |         |       |       |       |     |     |     |     |     |       |         |
| Reduction               |       | 59.5    | 38.0    | 17.9  |       |       |     |     |     |     |     | 5.5   | 120.9   |
| Animal food             |       | 11.6    | 00.0    | 17.0  |       |       |     |     |     |     |     | 0.0   | 11.6    |
| Pobles s                |       |         |         |       |       |       |     |     |     |     |     |       |         |
| Total                   | 252.1 | 1,631.1 | 1,075.1 | 144.3 |       |       |     |     |     |     | 1.8 | 250.8 | 3,355.2 |
| Dumped fish             |       |         | Type    |       |       | 30H   |     |     |     |     |     |       |         |
| Discards                | 4.5   | 104.5   | 38.3    |       | 1.8   |       |     |     |     | 0.9 |     |       | 150.0   |

Table 18. 1993 British Columbia trawl landings (t) of groundfish from statistical area 14.

| humpad Rah          | Jan | Feb    | Mar | Apr   | May   | Jun   | Jul | Aug | Sep | Oct  | Nov   | Dec  | Tota    |
|---------------------|-----|--------|-----|-------|-------|-------|-----|-----|-----|------|-------|------|---------|
| English s.          | -   | Name ( | 0.3 | 144.3 |       |       |     |     |     |      | 1.8   | 250A | 0.3     |
| Rock sole           | 2.8 | 1.0    | 0.1 |       |       |       |     |     |     |      | 0.3   | 1.5  | 5.7     |
| Petrale s.          |     |        |     |       |       |       |     |     |     | -    |       |      |         |
| Dover sole          |     |        |     |       |       |       |     |     |     |      |       |      |         |
| Rex sole            |     |        |     |       |       |       |     |     |     |      |       |      |         |
| Butter sole         |     |        |     |       |       |       |     |     |     |      |       |      |         |
| Flathead s.         |     |        |     |       |       |       |     |     |     |      |       |      |         |
| Sand sole<br>Turbot |     |        |     |       |       |       |     |     |     |      |       |      |         |
| Starry fldr         | 0.8 | 0.3    |     |       |       |       |     |     |     |      | 0.2   | 0.4  | 1.7     |
| Other flat.         | 0.0 | 0.5    | 0.3 |       |       |       |     |     |     |      | 0.2   | 0.4  | 0.3     |
| Other nat.          |     |        | 0.3 |       |       |       |     |     |     |      |       |      | 0.3     |
| Pacific cod         |     |        |     |       |       |       |     |     |     |      |       | 2.8  | 2.8     |
| Lingcod             |     |        |     |       |       |       |     |     |     |      |       |      |         |
| Sablefish           |     |        |     |       |       |       |     |     |     |      |       |      |         |
| Pollock             |     |        |     |       |       |       |     |     |     |      |       |      |         |
|                     |     |        |     |       |       |       |     |     |     |      |       |      |         |
| Ocean perch         |     |        |     |       |       |       |     |     |     |      |       |      |         |
| Bocaccio            |     |        | 1   |       |       |       |     |     |     |      |       |      |         |
| Canary rf           |     |        |     |       |       |       |     |     |     |      |       |      |         |
| Redstripe r         |     |        |     |       |       |       |     |     |     |      |       |      |         |
| Rougheye rf         |     |        |     |       |       |       |     |     |     |      |       |      |         |
| Silvergray          |     |        |     |       |       |       |     |     |     |      |       |      |         |
| Yel'mouth r         |     |        |     |       |       |       |     |     |     |      |       |      |         |
| Yellowtail          |     |        |     |       | 0.2   |       |     |     |     |      |       |      | 0.2     |
| Widow rf            |     |        |     |       |       |       |     |     |     |      |       |      | 23503   |
| Other rf            |     |        |     |       | 0.2   |       |     |     |     |      |       |      | 0.2     |
| Mate                |     | 040.0  |     |       | 007.4 | 470.0 |     |     |     | 00.0 | 040.0 |      | 4.070.0 |
| Hake                |     | 316.3  |     |       | 207.4 | 176.2 |     |     |     | 60.3 | 612.6 |      | 1,372.8 |
| Octopus<br>Perch    |     |        |     |       |       |       |     |     |     |      |       |      |         |
| Skate               |     |        |     |       |       |       |     |     |     |      |       |      |         |
| Squid               |     |        |     |       |       |       |     |     |     |      |       |      |         |
| Sturgeon            |     |        |     |       |       |       |     |     |     |      |       |      |         |
| Misc. sp.           |     |        |     |       |       |       |     |     |     |      |       |      |         |
| mioo. op.           |     |        |     |       |       |       |     |     |     |      |       |      |         |
| Dogfish             |     |        |     |       |       |       |     |     |     |      |       |      |         |
| Reduction           |     | 6.0    |     |       | 2.3   |       |     |     |     |      |       |      | 8.3     |
| Animal food         |     |        |     |       |       |       |     |     |     |      |       |      |         |
| AURERS F            |     |        |     |       |       |       |     |     |     |      |       |      |         |
| Total               | 3.6 | 323.6  | 0.7 |       | 210.1 | 176.2 |     |     |     | 60.3 | 613.1 | 4.7  | 1,392.3 |
| Dumped fish         |     |        |     |       |       |       |     |     |     |      |       |      |         |
|                     |     |        | 0.2 |       | 0.1   |       |     |     |     |      |       |      | 0.6     |

- 53 -

Table 19. 1993 British Columbia trawl landings (t) of groundfish from statistical area 16.

pages 24. These brance Greenster, used as using a probability from states or since 47.

Discards

| Opropod Lan             | Jan | Feb  | Mar   | Apr   | May | Jun | Jul | Aug | Sep | Oct | Nov   | Dec | Total |
|-------------------------|-----|------|-------|-------|-----|-----|-----|-----|-----|-----|-------|-----|-------|
| English s.<br>Rock sole | 2.0 | 16.0 | 189.5 | 580.0 | 117 | 0.1 |     |     |     | 3,7 | 127.0 | 4.8 | 200.  |
| Petrale s.              |     |      |       |       |     |     |     |     |     |     |       |     |       |
| Dover sole              |     |      |       |       |     |     |     |     |     |     |       |     |       |
| Rex sole                |     |      |       |       |     |     |     |     |     |     |       |     |       |
| Butter sole             |     |      |       |       |     |     |     |     |     |     |       |     |       |
| Flathead s.             |     |      |       |       |     |     |     |     |     |     |       |     |       |
| Sand sole               |     |      |       |       |     |     |     |     |     |     |       |     |       |
| Turbot                  |     |      |       |       |     |     |     |     |     |     |       |     |       |
| Starry fldr             |     |      |       |       |     |     |     |     |     |     |       |     |       |
| Other flat.             |     |      |       |       |     |     |     |     |     |     |       |     |       |
| Patrick                 |     |      |       |       |     |     |     |     |     |     |       |     |       |
| Pacific cod             |     |      |       |       |     |     |     |     |     |     |       |     |       |
| Lingcod                 |     |      |       |       |     |     |     |     |     |     |       |     |       |
| Sablefish               |     |      |       |       |     |     |     |     |     |     |       |     |       |
| Pollock                 |     |      |       |       |     |     |     |     |     |     |       |     |       |
| WALCOW IT               |     |      |       |       |     |     |     |     |     |     |       |     |       |
| Ocean perch             |     |      |       |       |     |     |     |     |     |     |       |     |       |
| Bocaccio                |     |      |       |       |     |     |     |     |     |     |       |     |       |
| Canary rf               |     |      |       |       |     |     |     |     |     |     |       |     |       |
| Redstripe r             |     |      |       |       |     |     |     |     |     |     |       |     |       |
| Rougheye rf             |     |      |       |       |     |     |     |     |     |     |       |     |       |
| Silvergray              |     |      |       |       |     |     |     |     |     |     |       |     |       |
| Yel'mouth r             |     |      |       |       |     |     |     |     |     |     |       |     |       |
| Yellowtail              |     |      |       |       |     |     |     |     |     |     |       |     |       |
| Widow rf                |     |      |       |       |     |     |     |     |     |     |       |     |       |
| Other rf                |     |      |       |       |     |     |     |     |     |     |       |     |       |
| State                   |     |      |       |       |     |     |     |     |     |     |       |     |       |
| Hake                    |     | 1276 |       |       |     |     |     |     |     |     | 295.6 |     | 295.  |
| Octopus                 |     |      |       |       |     |     |     |     |     |     |       |     |       |
| Perch                   |     |      |       |       |     |     |     |     |     |     |       |     |       |
| Skate                   |     |      |       |       |     |     |     |     |     |     |       |     |       |
| Squid                   |     |      |       |       |     |     |     |     |     |     |       |     |       |
| Sturgeon                |     |      |       |       |     |     |     |     |     |     |       |     |       |
| Misc. sp.               |     |      |       |       |     |     |     |     |     |     |       |     |       |
|                         |     |      |       |       |     |     |     |     |     |     |       |     |       |
| Dogfish                 |     |      |       |       |     |     |     |     |     |     |       |     |       |
| Reduction               |     |      |       |       |     |     |     |     |     |     |       |     |       |
| Animal food             |     |      |       |       |     |     |     |     |     |     |       |     |       |
| Palatic s.              | 0%  | 1.1  | 0.1   | 0.5   |     |     |     |     |     |     |       | 100 |       |
| Total                   | 2.0 | 9.0  | 670   | 0.1   | 370 | 05  |     |     |     | 1.5 | 295.6 | 3.4 | 295.  |
|                         |     |      |       | YEX   |     |     |     |     |     |     |       | Doc |       |
| Dumped fish             |     |      |       |       |     |     |     |     |     |     |       |     |       |
|                         |     |      |       |       |     |     |     |     |     |     |       |     |       |

Table 20. 1993 British Columbia trawl landings (t) of groundfish from statistical area 17.

|                | Jan | Feb  | Mar         | Apr   | May           | Jun | Jul | Aug | Sep | Oct | Nov   | Dec | Tota  |
|----------------|-----|------|-------------|-------|---------------|-----|-----|-----|-----|-----|-------|-----|-------|
| English s.     | 2.9 | 8.8  | 5.0         | 6.1   | 3.4           | 0.2 |     |     |     | 1.5 | 3.5   | 3.4 | 34.8  |
| Rock sole      | 0.2 | 1.1  | 0.3         | 0.7   | 1.0           | 0.2 |     |     |     | 0.5 | 0.7   | 0.5 | 5.2   |
| Petrale s.     |     |      |             |       |               |     |     |     |     |     |       |     |       |
| Dover sole     |     |      |             |       |               |     |     |     |     |     |       |     |       |
| Rex sole       |     |      |             |       |               |     |     |     |     |     |       |     |       |
| Butter sole    |     |      |             |       |               |     |     |     |     |     |       |     |       |
| Flathead s.    |     |      |             |       |               |     |     |     |     |     |       |     |       |
| Sand sole      |     |      |             |       |               |     |     |     |     |     |       |     |       |
| Turbot         |     |      |             |       |               |     |     |     |     |     |       |     |       |
| Starry fldr    | 0.3 | 2.8  | 0.6         | 0.4   | 0.1           |     |     |     |     | 0.1 | 0.4   | 0.5 | 5.2   |
| Other flat.    |     | 2.3  |             |       |               |     |     |     |     | 0.1 | 0.4   | 0.2 | 2.5   |
|                |     |      |             |       |               |     |     |     |     |     |       | 0.2 | 2.0   |
| Pacific cod    | 0.4 | 1.4  | 0.2         | 0.2   | 0.1           |     |     |     |     |     | 0.2   |     |       |
| Lingcod        |     |      | 0.2         | 0.2   | 0.1           |     |     |     |     |     | 0.2   |     | 2.5   |
| Sablefish      |     |      |             |       |               |     |     |     |     |     |       |     |       |
| Pollock        |     |      |             |       |               |     |     |     |     |     |       |     |       |
| - OHOUR        |     |      |             |       |               |     |     |     |     |     |       |     |       |
| Ocean perch    |     |      |             |       |               |     |     |     |     |     |       |     |       |
| Bocaccio /     |     |      |             |       |               |     |     |     |     |     |       |     |       |
|                |     |      |             |       |               |     |     |     |     |     |       |     |       |
| Canary rf      |     |      |             |       |               |     |     |     |     |     |       |     |       |
| Redstripe r    |     |      |             |       |               |     |     |     |     |     |       |     |       |
| Rougheye rf    |     |      |             |       |               |     |     |     |     |     |       |     |       |
| Silvergray     |     |      |             |       |               |     |     |     |     |     |       |     |       |
| Yel'mouth r    |     |      |             |       |               |     |     |     |     |     |       |     |       |
| Yellowtail     |     |      |             |       |               |     |     |     |     |     |       |     |       |
| Widow rf       |     |      |             |       |               |     |     |     |     |     |       |     |       |
| Other rf       |     |      |             |       |               |     |     |     |     |     |       |     |       |
|                |     |      |             |       |               |     |     |     |     |     |       |     |       |
| Hake           |     |      | 183.3       | 343.3 |               |     |     |     |     | 0.4 | 122.1 |     | 649.1 |
| Octopus        |     |      |             |       |               |     |     |     |     |     |       |     | 040.1 |
| Perch          |     |      |             |       |               |     |     |     |     |     |       |     |       |
| Skate          | 0.1 | 0.4  | 0.1         | 0.1   | 0.1           |     |     |     |     | 0.2 | 0.1   | 0.2 | 1.3   |
| Squid          |     |      |             |       |               |     |     |     |     | 0.2 | 0.1   | 0.2 | 1.0   |
| Sturgeon       |     |      |             |       |               |     |     |     |     |     |       |     |       |
| Misc. sp.      |     |      |             |       |               |     |     |     |     |     |       |     |       |
| 390,2900 E     |     |      |             |       |               |     |     |     |     |     |       |     |       |
| Dogfish        |     |      |             |       |               |     |     |     |     |     |       |     |       |
| Reduction      |     | 0.1  |             |       |               |     |     |     |     |     |       |     |       |
| Animal food    |     | 0.1  |             |       |               |     |     |     |     |     |       |     | 0.1   |
| 1000 E         |     |      |             |       |               |     |     |     |     |     |       |     |       |
| Total          | 3.9 | 16.9 | 189.5       | 350.8 | 4.7           | 0.4 |     |     |     | 2.7 | 127.0 | 4.8 | 700.7 |
| Dumped fish    |     | 0.4  |             |       |               |     |     | Aug |     |     |       | Die | Total |
| Discards       | 0.6 | 3.3  | 1.4         | 3.3   | 3.5           | 8.9 |     |     |     |     |       |     | 0.4   |
| 1400 18 1000 B |     | 0.0  | months in a | 3.3   | COLUMN STREET | 0.9 |     |     |     | 1.4 | 5.4   | 0.2 | 28.0  |

- 55 -

Table 21. 1993 British Columbia trawl landings (t) of groundfish from statistical area 18.

| Mischiel Pili           | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Tota |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| English s.              | 0.7 | 0.8 | 0.9 | 1.1 | 1.2 | 2.4 |     |     | 0.1 | 1.1 | 123 | 0.5 | 8.8  |
| Rock sole               | 1.0 | 0.3 | 1.2 | 2.5 | 0.6 | 0.7 |     | 3.3 | 0.2 | 0.8 |     | 1.1 | 8.   |
| Petrale s.              |     |     |     |     |     |     |     |     |     |     |     |     |      |
| Dover sole              |     |     |     |     |     |     |     |     |     |     |     |     |      |
| Rex sole                |     |     |     |     |     |     | 4   |     |     |     |     |     |      |
| Butter sole             |     |     |     |     |     |     |     |     |     |     |     |     |      |
| Flathead s.             |     |     |     |     |     |     |     |     |     |     |     |     |      |
| Sand sole               |     |     |     |     |     |     |     |     |     |     |     |     |      |
| Turbot                  |     |     |     |     |     |     |     |     |     |     |     |     |      |
| Starry fldr             | 0.1 | 0.2 | 0.4 | 0.6 | 0.2 | 0.1 |     |     |     |     |     | 0.1 | 1    |
| Other flat.             | 0.1 | 0.2 | 0.4 | 0.0 | 0.2 | 0.1 |     |     |     |     |     | 0.1 | 1.   |
| other nat.              |     |     |     |     |     |     |     |     |     |     |     |     |      |
| Pacific cod             | 1.8 | 0.6 | 4.5 | 0.6 | 0.1 | 0.4 |     |     | 6.4 | 0.3 |     | 0.1 | 14.  |
| Lingcod                 |     |     |     |     |     |     |     |     |     |     |     |     |      |
| Sablefish               |     |     |     |     |     |     |     |     |     |     |     |     |      |
| Pollock                 |     |     | 0.4 |     |     |     |     |     |     |     |     |     | 0.   |
| Ollock                  |     |     | 0.4 |     |     |     |     |     |     |     |     |     | 0.   |
| Ocean perch             |     |     |     |     |     |     |     |     |     |     |     |     |      |
| Bocaccio                |     |     |     |     |     |     |     |     |     |     |     |     |      |
| Canary rf               |     |     |     |     |     |     |     |     |     |     |     |     |      |
| Redstripe r             |     |     |     |     |     |     |     |     |     |     |     |     |      |
| Rougheye rf             |     |     |     |     |     |     |     |     |     |     |     |     |      |
| Silvergray              |     |     |     |     |     |     |     |     |     |     |     |     |      |
| Yel'mouth r             |     |     |     |     |     |     |     |     |     |     |     |     |      |
| Yellowtail              |     |     |     |     |     |     |     |     |     |     |     |     |      |
|                         |     |     |     |     |     |     |     |     |     |     |     |     |      |
| Widow rf                |     |     |     |     |     |     |     |     |     |     |     |     |      |
| Other rf                |     |     |     |     |     |     |     |     |     |     |     |     |      |
| Hake                    |     |     |     |     |     |     |     |     |     |     |     |     |      |
| Octopus                 | 0.1 |     |     |     | 0.1 |     |     |     |     | 0.1 |     |     | 0.   |
| Perch                   | 0.1 |     |     |     | 0.1 |     |     |     |     | 0.1 |     |     | U.   |
| Skate                   | 0.4 |     | 0.1 | 0.2 | 0.2 | 0.2 |     |     | 0.2 | 0.0 |     | 0.1 | 1.   |
|                         | 0.4 |     | 0.1 | 0.2 | 0.2 | 0.2 |     |     | 0.2 | 0.3 |     | 0.1 | 1.   |
| Squid                   |     |     |     |     |     |     |     |     |     |     |     |     |      |
| Sturgeon                |     |     |     |     |     |     |     |     |     |     |     |     |      |
| Misc. sp.               |     |     |     |     |     |     |     |     |     |     |     |     |      |
| Dogfish                 |     |     |     |     |     |     |     |     |     |     |     |     |      |
| Reduction               |     |     |     |     |     |     |     |     |     |     |     |     |      |
| Animal food             |     |     |     |     |     |     |     |     |     |     |     |     |      |
| William 1000            |     |     |     |     |     |     |     |     |     |     |     |     |      |
| otal                    | 4.1 | 1.9 | 7.5 | 5.0 | 2.4 | 3.8 |     |     | 6.9 | 2.6 |     | 1.9 | 36   |
| humpad fish             |     |     |     |     |     |     |     |     |     |     |     |     |      |
| Dumped fish<br>Discards |     |     |     | 0.6 | 1.1 |     |     |     |     | AC  |     |     | 7    |
| Discards                |     | 1.3 |     | 0.6 | 1.1 |     |     |     |     | 4.6 |     |     | /    |

Table 22. 1993 British Columbia trawl landings (t) of groundfish from statistical area 19.

| surriped field                          | Jan | Feb  | Mar   | Apr | May  | Jun  | Jul | Aug  | Sep  | Oct  | Nov  | Dec  | Total |
|---|-----|------|-------|-----|------|------|-----|------|------|------|------|------|-------|
| English s.                              |     | 1.0  | 7.5   | 5.0 | 3.4  | 70   |     |      | 0.5  | 5.0  |      | 13   | 0.5   |
| Rock sole                               |     |      |       |     |      |      |     |      |      |      |      |      |       |
| Petrale s.                              |     |      |       |     |      |      |     |      |      |      |      |      |       |
| Dover sole                              |     |      |       |     |      |      |     |      |      |      |      |      |       |
| Rex sole                                |     |      |       |     |      |      |     |      |      |      |      |      |       |
| Butter sole                             |     |      |       |     |      |      |     |      |      |      |      |      |       |
| Flathead s.                             |     |      |       |     |      |      |     |      |      |      |      |      |       |
| Sand sole                               |     |      |       |     |      |      |     |      |      |      |      |      |       |
| Turbot                                  |     |      |       |     |      |      |     |      |      |      |      |      |       |
| Starry fldr                             |     |      |       |     |      |      |     |      |      |      |      |      |       |
| Other flat.                             |     |      |       |     |      |      |     |      |      |      |      |      |       |
| Pacific cod                             |     |      |       |     |      |      |     | 3.1  | 32.0 | 3.1  | 3.7  |      | 41.9  |
| Lingcod                                 |     |      |       |     |      |      |     |      |      |      |      |      | -     |
| Sablefish                               |     |      |       |     |      |      |     |      |      |      |      |      |       |
| Pollock                                 |     |      |       |     |      | *    |     |      |      |      |      | *    |       |
|   |     |      |       |     |      |      |     |      |      |      |      |      |       |
| Ocean perch                             |     |      |       |     |      |      |     |      |      |      |      |      |       |
| Bocaccio                                |     |      |       |     |      |      |     |      |      |      |      |      |       |
| Canary rf                               |     |      |       |     |      |      |     |      |      |      |      |      |       |
| Redstripe r                             |     |      |       |     |      |      |     |      |      |      |      |      |       |
| Rougheye rf                             |     |      |       |     |      |      |     |      |      |      |      |      |       |
| Silvergray                              |     |      |       |     |      |      |     |      |      |      |      |      |       |
| Yel'mouth r                             |     |      |       |     |      |      |     |      |      |      |      |      |       |
| Yellowtail                              |     |      |       |     |      |      |     |      |      |      |      |      |       |
| Widow rf                                |     |      |       |     |      |      |     |      |      |      |      |      |       |
| Other rf                                |     |      |       |     |      |      |     |      |      |      |      |      |       |
|   |     |      |       |     |      |      |     |      |      |      |      |      |       |
| Hake                                    |     |      |       |     |      |      |     |      |      | 43.0 |      |      | 43.0  |
| Octopus                                 |     |      |       |     |      |      |     |      |      |      | 0.1  |      | 0.1   |
| Perch                                   |     |      |       |     |      |      |     |      |      |      |      |      |       |
| Skate                                   |     |      |       |     |      |      |     | 0.2  | 1.2  |      | 0.1  |      | 1.5   |
| Squid                                   |     |      |       |     |      |      |     | +    |      |      |      |      |       |
| Sturgeon                                |     |      |       |     |      |      |     |      |      |      |      |      |       |
| Misc. sp.                               |     |      |       |     |      |      |     |      |      |      |      |      |       |
| Dogfish                                 |     |      |       |     |      |      |     |      |      |      | 1.3  | 1.3  | 2.6   |
| Reduction                               |     |      |       |     |      |      |     |      |      |      | 1.0  | 1.0  | 2.0   |
| Animal food                             |     |      |       |     |      |      |     |      |      |      |      |      |       |
| . I . III III I I I I I I I I I I I I I |     |      |       |     |      |      |     |      |      |      |      |      |       |
| Total                                   | 10  | 0.3  | 13    | 2.5 | 0.0  | 0.1  |     | 3.3  | 33.7 | 46.1 | 5.2  | 1.3  | 89.6  |
| English g                               |     | 1.00 | 1/6/7 | ybi | Inch | 5/60 |     | 1990 | 200  | - 04 | [SOA | Disc | Ton   |
| Dumped fish                             |     |      |       |     |      |      |     |      |      |      |      |      |       |

Discards

- 5/ -

Table 23. 1993 British Columbia trawl landings (t) of groundfish from statistical area 20.

|                 | Jan  | Feb   | Mar     | Apr | May | Jun   | Jul   | Aug   | Sep     | Oct     | Nov | Dec | Tota    |
|-----------------|------|-------|---------|-----|-----|-------|-------|-------|---------|---------|-----|-----|---------|
| English s.      | 0.6  | 8.6   | 0.3     | 0.7 | 0.6 | 0.2   |       | 0.7   | 0.7     | 4.4     | 3.4 |     | 20.     |
| Rock sole       |      | 0.8   |         |     |     |       |       |       |         |         |     |     | 0.0     |
| Petrale s.      | 4.0  | 1.5   | 0.1     | 0.1 | 0.5 | 0.2   |       |       |         |         |     |     | 6.4     |
| Dover sole      | 1.7  | 2.1   |         |     | 2.2 |       | 1.1   | 3.0   | 0.5     | 1.5     |     |     | 12.1    |
| Rex sole        |      | 0.1   |         |     |     |       |       |       |         |         |     |     | 0.1     |
| Butter sole     |      |       |         |     |     |       |       |       |         |         |     |     |         |
| Flathead s.     |      |       |         |     |     |       |       |       |         |         |     |     |         |
| Sand sole       |      | 0.2   |         |     |     |       |       |       |         |         |     |     | 0.2     |
| Turbot          | 1.0  |       |         |     |     |       |       | 1.6   |         |         |     |     | 2.6     |
| Starry fldr     |      |       |         |     |     |       |       |       |         |         |     |     |         |
| Other flat.     |      |       | 0.2     |     |     |       |       |       |         |         |     |     | 0.2     |
| Out of the time |      |       | 0.2     |     |     |       |       |       |         |         |     |     | -       |
| Pacific cod     | 5.2  | 78.8  | 3.6     | 2.0 | 3.2 | 0.1   |       | 0.2   | 0.7     | 0.7     | 1.0 |     | 95.5    |
| Lingcod         | 0.2  | , 0.5 | 1 448.2 | 2.0 | 0.2 | 0.1   |       | 0.3   | Ų.,     | 0.1     | 0.5 |     | 0.9     |
| Sablefish       | 0.2  | 0.5   |         |     |     |       |       | 0.0   |         | 0.1     | 0.0 |     | 0.7     |
| Pollock         | U.E. | 0.1   |         |     |     |       |       |       |         |         |     |     | 0.1     |
| r Ollock .      |      | 0.1   |         |     |     |       |       |       |         |         |     |     | U.      |
| Ocean perch     | 4.3  |       |         |     |     |       |       |       |         |         |     |     | 4.3     |
| Bocaccio        | 4.5  | 0.2   |         |     | 0.2 |       |       |       |         |         |     |     | 0.4     |
| Canary rf       |      | 0.2   |         |     | 0.2 |       |       |       |         |         |     |     | 0.      |
| Redstripe r     |      |       |         |     |     |       |       |       |         |         |     |     |         |
| Rougheye rf     | 3.0  |       |         |     |     |       |       |       |         |         |     |     | 3.0     |
|                 | 3.0  |       |         |     |     |       |       |       |         |         |     |     |         |
| Silvergray      |      |       |         |     | 0.1 |       |       |       |         |         |     |     | 0.1     |
| Yel'mouth r     |      |       |         |     | 4.0 |       |       |       |         |         |     |     |         |
| Yellowtail      |      | 3.2   |         |     | 1.9 |       |       |       |         |         | 0.4 |     | 5.5     |
| Widow rf        |      |       |         |     |     |       |       |       |         |         |     |     | 03      |
| Other rf        | 0.1  | 0.1   |         |     |     |       |       |       |         |         | 0.1 |     | 0.3     |
|                 |      |       |         |     |     | 10000 |       |       | 100000  |         |     |     |         |
| Hake            |      |       |         |     |     | 144.5 | 141.2 | 948.3 | 1,280.8 | 1,080.6 |     |     | 3,595.4 |
| Octopus         |      |       |         |     |     |       |       |       |         |         |     |     |         |
| Perch           |      |       |         |     |     |       |       |       |         |         |     |     |         |
| Skate           |      | 1.1   |         | 0.1 | 0.1 | 0.2   |       | 0.1   |         |         |     |     | 1.0     |
| Squid           |      |       |         |     |     |       |       |       |         |         |     |     |         |
| Sturgeon        |      |       |         |     |     |       |       |       |         |         |     |     |         |
| Misc. sp.       |      |       |         |     |     |       |       |       |         |         |     |     |         |
| Doofish         |      |       |         |     |     |       |       |       |         |         |     |     |         |
| Dogfish         |      | 0.0   |         |     |     |       |       | 3.4   |         |         |     |     | 3.4     |
| Reduction       |      | 0.2   |         |     | 0.3 |       |       |       | 0.1     |         | 0.1 |     | 0.      |
| Animal food     |      |       |         |     |     |       |       |       |         |         |     |     |         |
| Total           | 20.1 | 97.5  | 4.2     | 2.9 | 9.1 | 145.2 | 142.3 | 957.6 | 1,282.8 | 1,087.3 | 5.5 |     | 3,754.  |
| Dumped fish     |      |       |         |     |     |       |       |       | 256     |         |     |     |         |
|                 |      |       |         |     |     |       |       |       |         |         |     |     |         |

1

Table 24. 1993 British Columbia trawl landings (t) of groundfish from statistical area 29.

|             | Jan  | Feb   | Mar     | Apr   | May | Jun | Jul   | Aug   | Sep     | Oct | Nov  | Dec To |
|-------------|------|-------|---------|-------|-----|-----|-------|-------|---------|-----|------|--------|
| English s.  | 29,1 | 97.5  | 4.2     | 3.9   | 81  | 0.4 | 195.3 | 067.6 | 1,252.8 |     |      | 3.34   |
| Rock sole   |      |       |         |       |     |     |       |       |         |     |      |        |
| Petrale s.  |      |       |         |       |     |     |       |       |         |     |      |        |
| Dover sole  |      |       |         |       |     |     |       |       |         |     |      |        |
| Rex sole    |      |       |         |       |     |     |       |       |         |     |      |        |
| Butter sole |      |       |         |       |     |     |       |       |         | **  |      |        |
| Flathead s. |      |       |         |       |     |     |       |       |         |     |      |        |
| Sand sole   |      |       |         |       |     |     |       |       |         |     |      |        |
| Turbot      |      |       |         |       |     |     |       |       |         |     |      |        |
| Starry fldr |      |       |         |       |     |     |       |       |         |     |      |        |
| Other flat. |      |       |         |       |     |     |       |       |         |     |      |        |
| Pacific cod |      |       |         |       |     |     |       |       |         |     |      | sin    |
| Lingcod     |      |       |         |       |     |     |       |       |         |     |      |        |
| Sablefish   |      |       |         |       |     |     |       |       |         |     |      |        |
| Pollock     |      |       | 0.2     |       |     |     |       |       |         |     |      |        |
|             |      |       |         |       |     |     |       |       |         |     |      |        |
| Ocean perch |      |       |         |       |     |     |       |       |         |     |      |        |
| Bocaccio    |      |       |         |       |     |     |       |       |         |     |      |        |
| Canary rf   |      |       |         |       |     |     |       |       |         |     |      |        |
| Redstripe r |      |       |         |       |     |     |       |       |         |     |      |        |
| Rougheye rf |      |       |         |       |     |     |       |       |         |     |      |        |
| Silvergray  |      |       |         |       |     |     |       |       |         |     |      |        |
| Yel'mouth r |      |       |         |       |     |     |       |       |         |     |      |        |
| Yellowtail  |      |       |         |       |     |     |       |       |         |     |      |        |
| Widow rf    |      |       |         |       |     |     |       |       |         |     |      |        |
| Other rf    |      |       |         |       |     |     |       |       |         |     |      |        |
|             |      |       |         |       |     |     |       |       |         |     | .07  |        |
| Hake        |      | 253.4 | 1,449.2 | 335.2 |     |     |       |       |         |     | 12.2 | 2,05   |
| Octopus     |      |       |         |       |     |     |       |       |         |     |      |        |
| Perch       |      |       |         |       |     |     |       |       |         |     |      |        |
| Skate       |      |       |         |       |     | 0.1 |       |       |         |     |      |        |
| Squid       |      |       |         |       |     |     |       |       |         |     |      |        |
| Sturgeon    |      |       |         |       |     |     |       |       |         |     |      |        |
| Misc. sp.   |      |       |         |       |     |     |       |       |         |     |      |        |
| Dogfish     |      |       |         |       |     |     |       |       |         |     |      |        |
| Reduction   |      | 1.2   | 2.0     | 1.9   |     |     |       |       |         |     |      |        |
| Animal food |      |       |         |       |     |     |       |       |         |     |      |        |
| Person      | 4.0  | 1.5   | 0.1     | 0.1   | 0.5 | 0.2 |       |       |         |     |      | 20     |
| Total       | 0.0  | 254.6 | 1,451.4 | 337.1 | 9.0 | 0.5 |       | 0.7   | 61      | 11  | 12.2 | 2,05   |
| Dumped fish |      |       |         |       |     |     |       |       |         |     |      |        |
| - amped non |      |       |         | 1.8   |     | 2.7 |       |       |         |     | 1.8  |        |

- 59 -

Table 25. 1993 British Columbia trawl landings (t) of groundfish from statistical area 21.

| AND THE PERSON NAMED IN  | 1.50 | 11/3  | 3.0 | -212-0 | 1911  | 1977  |       |       |         |      |       |      | 7775    |
|--|------|-------|-----|--------|-------|-------|-------|-------|---------|------|-------|------|---------|
| material Pro-  | Jan  | Feb   | Mar | Apr    | May   | Jun   | Jul   | Aug   | Sep     | Oct  | Nov   | Dec  | Total   |
| English s.   |      | 0.3   | 0.1 | 1.4    | 8.5   | 1.7   | 0.5   | 15919 | 2,345.9 | 0.6  | 0.2   | 18.8 | 13.3    |
| Rock sole  |      | 0.4   |     | 0.3    | 7.6   | 1.8   | 0.2   | 1.6   | 0.4     | 0.7  |       |      | 13.0    |
| Petrale s.   |      | 0.1   |     | 0.1    | 2.4   | 1.0   | 3.0   | 0.2   |         | 0.2  |       |      | 7.0     |
| Dover sole   |      |       |     |        | 0.9   | 3.2   | 0.7   | 0.2   |         | 1.7  | 1.4   |      | 8.1     |
| Rex sole   |      |       |     |        |       |       | 0.1   |       |         | 26.8 |       |      | 0.1     |
| Butter sole  |      |       |     |        |       |       |       |       |         |      |       |      |         |
| Flathead s.  |      |       |     |        |       |       | 0.1   |       |         |      |       |      | 0.1     |
| Sand sole  |      | 0.1   |     |        | 0.3   |       |       |       |         |      |       |      | 0.4     |
| Turbot   |      |       |     | 0.3    |       |       |       |       |         |      |       |      | 0.3     |
| Starry fldr  |      |       |     |        |       |       |       |       |         |      |       |      |         |
| Other flat.  |      |       |     |        |       |       |       |       |         |      |       |      |         |
|  |      |       |     |        |       |       |       |       |         |      |       |      |         |
| Pacific cod  | 1.8  | 14.0  | 0.6 | 1.8    | 116.5 | 19.2  | 35.2  | 0.8   | 0.8     | 0.9  | 1.4   |      | 193.0   |
| Lingcod  |      |       |     | 110    | 9.7   | 0.8   | 3.0   | 0.8   | 0.3     | 0.3  | 871.8 |      | 14.9    |
| Sablefish  |      |       |     |        |       | 0.1   | 0.7   | 0.3   | 1.3     | 1.9  |       |      | 4.3     |
| Pollock  |      |       |     |        |       | 23    | 10.6  | 38    |         |      |       |      |         |
|  |      |       |     |        |       |       |       |       |         |      |       |      |         |
| Ocean perch  |      |       |     |        |       |       | 1.2   | 2.7   |         |      |       |      | 3.9     |
| Bocaccio   |      | 3.2   |     | 0.2    |       | 0.1   | 0.6   |       | 0.6     |      |       |      | 4.7     |
| Canary rf  |      | 4.4   |     | 1.7    | 0.6   | 1.0   | 2.5   | 0.4   | 0.0     |      |       |      | 10.6    |
| Redstripe r  |      | 0.7   |     | 23.1   | .10.8 | 0.0   | 2.2   | 0.4   | 0.1     | 0.6  |       |      | 3.6     |
| Rougheye rf  |      | 0.7   |     |        |       |       | 13.3  |       | 0.1     | 0.0  |       |      |         |
| Silvergray   |      | 1.8   |     |        |       |       | 0.1   |       | 0.1     |      |       |      | 2.0     |
| Yel'mouth r  |      | 1.0   |     |        |       |       | 0.1   |       | 0.1     | 0.1  |       |      | 0.1     |
| Yellowtail   |      | 0.1   |     |        | 6.9   | 2.6   | 4.2   | 1.2   | 2.1     | 0.5  |       |      | 17.6    |
| Widow rf   |      | 0.1   |     |        | 0.5   | 2.0   | 2.7   | 1.4   | 4       | 0.0  |       |      | 2.7     |
| Other rf   | 0.2  | 0.5   |     |        | 0.6   | 0.3   | 0.3   | 0.9   | 0.3     | 0.1  |       |      | 3.2     |
| Outer 11   |      |       |     |        | 0.0   | 0.5   | 0.0   | 0.5   | 0.5     | 0.1  |       |      | 0.2     |
| Hake   |      |       |     |        |       | 175.4 | 299.0 | 158.1 | 105.8   | 36.3 | 118.5 |      | 774.6   |
| Octopus  |      |       |     |        |       | 173.4 | 299.0 | 130.1 | 105.6   | 30.3 |       |      | //4.0   |
| Perch  |      |       |     |        |       |       |       |       |         |      |       |      |         |
| Skate  |      | 0.4   |     | 0.1    | 0.5   | 0.4   |       |       |         |      |       |      | 1.4     |
| Squid  |      |       |     | 0.1    | 0.5   | 0.4   |       |       |         |      |       |      |         |
| DESCRIPTION OF THE PARTY OF THE |      |       |     |        |       |       |       |       |         |      |       |      |         |
| Sturgeon   |      |       |     |        |       |       | 0.3   | 0.1   | 0.1     |      |       |      | 0.5     |
| Misc. sp.  |      |       |     |        |       |       | 0.3   | 0.1   | 0.1     |      |       |      | 0.5     |
| Doofeb   |      |       |     |        |       |       |       |       |         |      |       |      |         |
| Dogfish  | 0.7  |       |     | 0.0    |       | 0.0   |       | 47.0  | 6.4     | 0.0  |       |      | 6.4     |
| Reduction  | 0.7  |       |     | 0.2    |       | 0.8   | 5.3   | 17.8  | 2.3     | 2.6  |       |      | 29.7    |
| Animal food  |      | 154.8 |     |        |       |       |       |       |         |      |       |      |         |
| Total  | 2.7  | 26.0  | 0.7 | 6.1    | 154.5 | 208.4 | 361.9 | 185.1 | 120.6   | 46.5 | 3.0   |      | 1,115.5 |
| Dumped fish  |      |       |     |        |       |       |       |       | 5-00    |      |       |      |         |
| more   |      |       |     | 3.6    |       |       |       |       |         |      |       |      |         |

- 60 -

Table 26. 1993 British Columbia trawl landings (t) of groundfish from statistical area 23.

| serve in a                              | LANGUAGE TO SERVICE | 0.7     | III CAMPA | 3.6   | 37.0          | 20.0   | 1197.1  |         |         |             |         |      |          |
|---|---------------------|---------|-----------|-------|---------------|--------|---------|---------|---------|-------------|---------|------|----------|
| madena phu                              | Jan                 | Feb     | Mar       | Apr   | May           | Jun    | Jul     | Aug     | Sep     | Oct         | Nov     | Dec  | Total    |
| English s.                              | 0.4                 | 3.2     | 3.1       | 0.9   | 11.6          | 3.1    | 3.7     | 3.0     | 7.8     | 5.5         | 3.3     |      | 45.6     |
| Rock sole                               | 3.8                 | 17.4    | 11.6      | 0.9   | 4.9           | 2.5    | 11.8    | 2.0     | 2.6     | 0.5         |         |      | 58.0     |
| Petrale s.                              | 34.3                | 23.3    | 6.9       | 4.5   | 0.9           | 0.6    | 8.0     | 1.9     | 14.9    | 12.8        | 8.6     | 0.2  | 116.9    |
| Dover sole                              | 93.9                | 154.9   | 225.8     | 466.2 | 53.0          | 9.9    | 8.5     | 3.7     | 9.0     | 19.7        | 13.2    | 5.8  | 1,063.6  |
| Rex sole                                | 0.4                 | 7.1     | 7.7       | 14.5  |               |        | 0.5     | 0.3     | 0.8     | 0.5         |         |      | 31.8     |
| Butter sole                             |                     |         |           |       |               |        |         |         |         |             |         |      |          |
| Flathead s.                             |                     |         |           |       |               |        |         | 0.2     | 0.2     | 0.2         | 0.3     |      | 0.9      |
| Sand sole                               |                     | 2.7     | 0.5       |       |               |        |         | 1.1     |         |             |         |      | 4.3      |
| Turbot                                  | 4.7                 | 5.9     | 64.1      | 94.8  | 42.2          | 20.5   | 33.6    |         | 6.6     | 6.0         | 0.2     | 0.3  | 278.9    |
| Starry fldr                             | 0.2                 | 1.1     |           |       |               |        |         |         |         |             |         |      | 1.3      |
| Other flat.                             |                     | 0.2     | 1.0       |       |               |        |         |         |         |             |         |      | 1.2      |
|   |                     |         |           |       |               |        |         |         |         |             |         |      |          |
| Pacific cod                             | 117.8               | 868.9   | 122.1     | 2.1   | 66.0          | 44.6   | 17.8    | 3.7     | 33.9    | 14.7        | 3.9     |      | 1,295.5  |
| Lingcod                                 |                     | 0.3     |           |       | 136.9         | 24.1   | 42.9    | 4.6     | 70.1    | 91.7        | 148.2   |      | 518.8    |
| Sablefish                               | 5.5                 | 14.6    | 11.6      | 11.2  | 8.0           | 5.8    | 14.6    | 4.6     | 11.7    | 32.4        | 3.3     | 0.9  | 124.2    |
| Pollock                                 | 0.2                 | 1.6     |           |       | 0.6           |        |         |         |         |             |         |      | 1.6      |
| · oneon                                 |                     |         |           |       |               |        |         |         |         |             |         |      |          |
| Ocean perch                             | 0.4                 | 5.9     | 17.2      | 48.5  | 58.2          | 19.3   | 25.4    | 9.8     | 3.9     | 134.5       | 7.3     | 2.6  | 333.0    |
| Bocaccio                                | 0.4                 | 1.6     | 0.1       | 0.7   | 14.7          | 6.8    | 9.7     | 1.9     | 4.2     | 4.7         | 1.5     |      | 46.3     |
| Canary rf                               | 11.7                | 1.7     | 2.2       | 16.9  | 26.6          | 16.8   | 11.3    | 7.6     | 11.3    | 9.4         | 0.9     |      | 116.4    |
| Redstripe r                             | 11.2                | 2.5     | 0.5       | 4.6   | 13.5          | 5.4    | 12.2    | 5.9     | 16.6    | 25.8        | 1.0     | 2.0  | 101.2    |
| Rougheye rf                             | 23.1                | 24.1    | 15.4      | 23.1  | 10.8          | 0.9    | 2.7     |         | .03     | 9.7         | 8.2     | 4.3  | 122.3    |
| Silvergray                              | 1.0                 | 2.3     | 0.1       | 3.4   | 11.5          | 1.8    | 5.9     | 1.8     | 11.3    | 2.5         |         |      | 41.6     |
| Yel'mouth r                             | 5.8                 | 0.9     | 1.5       | 0.8   | 5.9           | 1.7    | 1.9     | 100     | 0.1     | 5.5         | 0.6     |      | 23.9     |
| Yellowtail                              | 0.1                 | 17.5    | 5.4       | 3.0   | 46.6          | 42.0   | 26.2    | 26.6    | 30.7    | 17.6        | 0.2     |      | 215.9    |
| Widow rf                                | 0.,                 | 2.3     | -         |       | 1.6           | 2.8    | 2.6     |         | 6.8     | 9.4         |         |      | 25.5     |
| Other rf                                | 7.4                 | 18.6    | 23.7      | 26.7  | 11.7          | 3.7    | 10.8    | 3.2     | 4.8     | 13.7        | 2.2     | 0.1  | 126.6    |
| Ourior II                               |                     | 10.0    | 20.1      | 20.7  |               | 0.1    | 0.3     | 0.3     | 13      | 10          |         |      |          |
| Hake                                    |                     |         |           |       | 354.9         | 550.4  | 897.5   | 1,115.2 | 1,995.7 | 1,059.5     | 871.8   |      | 6845.0   |
| Octopus                                 | 0.1                 | 0.5     | 0.1       |       | 0.3           | 183    | 38.2    | 0.1     | 0.1     | 0.1         | - 12    |      | 1.3      |
| Perch                                   | 0.1                 | 0.0     | 0.1       |       | 0.0           |        |         | 0.1     | 0.,     | 0.,         |         |      |          |
| Skate                                   | 0.1                 | 0.7     | 1.0       |       | 0.1           |        | 1.4     |         | 0.3     |             | 0.1     |      | 3.7      |
| Squid                                   | 0.1                 | 0.7     | 0.1       |       | 0.1           |        | 1,7     |         | 0.0     |             | 0.1     |      | 0.1      |
| Sturgeon                                |                     |         | 0.1       |       |               |        |         |         |         |             |         |      | 0        |
| 2000                                    |                     |         |           |       |               |        | 0.2     | 1.4     | 12.2    |             |         |      | 13.8     |
| Misc. sp.                               |                     |         |           |       |               |        | 0.2     | 1.4     | 12.2    |             |         |      | 10.0     |
| Dogfish                                 |                     | 2.0     |           |       | 1.0           | 0.7    |         |         |         |             |         |      | 3.7      |
| Dogfish<br>Reduction                    | 8.8                 | 34.4    | 12.4      | 19.6  | 3.1           | 7.8    | 20.8    | 86.2    | 90.3    | 24.8        | 21.4    | 2.4  | 332.0    |
| 100000000000000000000000000000000000000 | 0.0                 | 34.4    | 12.4      | 13.0  | 3.1           | 7.0    | 20.0    | 00.2    | 30.3    | 24.0        | 21.4    | 2.4  | 002.0    |
| Animal food                             |                     |         |           |       |               |        |         |         |         |             |         |      |          |
| Total                                   | 331.1               | 1,216.2 | 534.1     | 741.6 | 884.0         | 771.2  | 1,170.0 | 1,284.8 | 2,345.9 | 1,501.2     | 1,096.2 | 18.6 | 11,894.9 |
| Legith 4                                | 7000                | 540     | Mar       | VXA   | Taylor Taylor | n grid | Thi     |         |         | 0.0         |         |      | 0.2      |
| Dumped fish                             |                     |         | 7.5       | 00.0  | 04.4          | 05.0   | 000     | 00 5    | 60.6    | 0.2<br>50.5 | 2.4     |      | 507.5    |
| Discards                                | 1.9                 | 11.7    | 7.5       | 30.2  | 91.4          | 65.9   | 86.9    | 98.5    | 60.6    | 50.5        | 2.4     |      | 507.5    |

Table 27. 1993 British Columbia trawl landings (t) of groundfish from statistical area 24.

|                  |       | -     |       | 303   | 001   | 141.9 | 12.5  | 6.6   | 4.5   | 192.8 | W.Y   |      |         |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|---------|
| periopsia tapa   | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec  | Total   |
| English s.       | 0.1   | 0.3   |       | 1.9   | 5.4   | 3.1   | 8.7   | 7.6   | 7.0   | 9.1   | 3.3   |      | 46.5    |
| Rock sole        |       | 0.9   | 1.0   | 1.3   | 1.6   | 0.7   | 1.8   | 0.2   | 0.4   | 0.4   | 0.3   |      | 8.6     |
| Petrale s.       | 28.7  | 52.8  | 8.4   | 0.8   | 1.5   | 1.6   | 8.0   | 2.4   | 3.2   | 4.9   | 9.7   | 0.2  | 122.2   |
| Dover sole       | 16.0  | 53.2  | 109.4 | 116.1 | 53.6  | 19.9  | 14.5  | 20.6  | 8.8   | 19.3  | 10.8  | 2.4  | 444.6   |
| Rex sole         |       | 1.7   | 0.1   |       | 0.2   | 1.2   | 0.5   | 3.7   | 1.3   | 3.0   | 2.7   |      | 14.4    |
| Butter sole      |       |       |       |       |       |       |       |       |       |       |       |      |         |
| Flathead s.      |       |       | 7     |       |       |       | 0.1   | 0.9   | 0.3   | 0.6   | 3.0   |      | 4.9     |
| Sand sole        | 1.6   | 0.7   | 0.1   |       |       |       |       |       | 0.1   |       |       |      | 2.5     |
| Turbot           | 8.0   | 5.6   | 29.7  | 27.7  | 13.7  | 6.9   | 7.3   | 1.1   | 15.9  | 6.3   | 2.1   | 0.8  | 125.1   |
| Starry fldr      | 6.7   | 5.2   | 0.4   | 777   | 0.1   |       | 3.57  |       |       | 1.4   |       |      | 13.8    |
| Other flat.      | -     | -     | 0.4   |       |       |       |       |       |       |       |       |      | 10.0    |
| Outor non.       |       |       |       |       |       |       |       |       |       |       |       |      |         |
| Pacific cod      | 3.9   | 18.9  | 2.6   | 9.2   | 41.7  | 13.2  | 19.5  | 16.7  | 34.6  | 28.9  | 12.2  | 0.6  | 202.0   |
| Lingcod          | 0.1   | 0.7   |       | 0.4   | 24.4  | 73.3  | 389.2 | 9.7   | 208.4 | 143.1 | 43.0  |      | 892.3   |
| Sablefish        | 2.5   | 26.2  | 6.1   | 3.9   | 6.7   | 6.2   | 12.5  | 3.0   | 4.8   | 11.5  | 0.4   | 0.5  | 84.3    |
| Pollock          |       |       |       |       | 30.0  | 1000  | 83    | 1172  | 18.8  | 27.8  | 22.0  | 0.3  |         |
| Carry            |       |       |       |       |       |       |       |       |       |       |       |      |         |
| Ocean perch      | 0.2   | 18.0  | 5.5   | 20.6  | 62.0  | 16.7  | 43.1  | 16.0  | 12.3  | 106.9 | 4.8   | 3.0  | 309.1   |
| Bocaccio         | 1.0   | 13.1  |       | 1.5   | 11.5  | 12.5  | 7.3   | 8.4   | 7.0   | 11.0  | 2.7   | 1.7  | 77.7    |
| Canary rf        | 1.9   | 6.4   | 0.9   | 1.1   | 19.9  | 26.7  | 23.7  | 12.9  | 11.4  | 11.8  | 4.2   | 0.7  | 121.6   |
| Redstripe r      | 1.0   | 4.4   | 0.1   | 6.8   | 16.8  | 8.0   | 16.2  | 2.1   | 0.5   | 28.1  | 27.4  | 5.8  | 117.2   |
| Rougheye rf      | 9.2   | 35.8  | 13.2  | 11.5  | 2.4   | 1.6   | 3.1   | 1.3   | 3.9   | 13.1  | 7.8   | 0.9  | 103.8   |
| Silvergray       | 2.0   | 7.4   | 1.4   | 0.7   | 5.2   | 2.7   | 2.5   | 5.2   | 1.8   | 6.2   | 1.0   | 0.4  | 36.5    |
| Yel'mouth r      | 0.1   | 0.3   |       | 2.2   | 4.6   | 2.2   | 4.9   | 1.1   | 2.1   | 4.9   | 0.3   | 1.1  | 23.8    |
| Yellowtail       | 119.6 | 155.4 | 1.1   | 21.1  | 58.8  | 39.3  | 38.1  | 41.9  | 44.3  | 50.5  | 15.1  | 1.1  | 585.2   |
| Widow rf         | 14.1  | 3.3   | 2.0   | 3.6   | 2.8   | 2.2   | 14.2  | 3.2   | 7.4   | 38.3  | 0.5   | 1.1  | 90.7    |
|                  | 3.1   |       | 140   |       |       |       |       |       |       |       |       | 1.1  |         |
| Other rf         | 3.1   | 23.3  | 14.0  | 18.8  | 38.4  | 29.4  | 30.7  | 2.1   | 12.9  | 24.0  | 7.7   |      | 204.4   |
| Lieles           |       |       |       |       |       | 400.0 | 05.4  |       | 440.5 |       |       |      | 333.1   |
| Hake             |       |       |       |       |       | 186.0 | 35.1  | 1.5   | 110.5 |       |       |      |         |
| Octopus<br>Perch |       | 0.2   |       | 0.1   |       | 0.1   | 0.1   |       | 0.1   | 0.2   | 0.1   |      | 0.9     |
| Skate            | 0.7   | 0.2   |       | 0.6   | 1.2   |       | 0.2   | 0.8   | 0.1   | 0.9   | 0.5   |      | 5.2     |
| Squid            |       |       |       |       |       |       |       |       |       |       |       |      |         |
| Sturgeon         |       |       |       |       | 0.1   |       |       |       |       |       |       |      | 0.1     |
| Misc. sp.        |       |       |       |       |       | 0.2   |       |       | 1.1   |       |       |      | 1.3     |
| Sand sue         |       |       |       |       |       |       |       |       |       |       |       |      |         |
| Dogfish          |       |       |       |       | 5.0   |       |       |       |       |       |       |      | 5.0     |
| Reduction        | 1.6   | 3.0   | 1.5   | 2.6   | 0.7   |       | 2.0   | 10.5  | 29.4  |       | 0.5   | 1.3  | 53.1    |
| Animal food      |       |       |       |       | 35.5  |       | 15.4  | 8.0   | 10.6  |       | 121   |      |         |
| posts and        | 41.0  | 500'8 | 02.3  | 46.5  | 58    | 1001  | 13    | 67    | 0.5   | 13    | 1.6   | 0.5  | 051     |
| Total            | 222.1 | 437.0 | 195.5 | 252.5 | 378.3 | 453.7 | 683.3 | 172.9 | 529.6 | 524.4 | 160.1 | 20.5 | 4,029.9 |
| Demonstration of |       |       |       |       |       | 700   | 771   |       |       |       |       |      | 100     |
| Dumped fish      |       |       |       |       | 1016  | 40.0  | 0.1   |       | 40.7  |       |       |      | 0.1     |
| Discards         | 0.6   | 18.1  | 14.5  | 28.1  | 134.6 | 18.7  | 17.9  | 0.8   | 18.4  | 2.8   | 3.0   |      | 257.5   |

62

Table 28. 1993 British Columbia trawl landings (t) of groundfish from statistical area 25.

|             |       |       |       |       | 1466  |       |       |       |       |         |       |       |         |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-------|-------|---------|
| ampad satu  | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct     | Nov   | Dec   | Total   |
| English s.  | 0.2   | 1.9   | 0.7   | 1.3   | 2.2   | 7.4   | 2.2   | 4.1   | 2.4   | 3.0     | 0.7   | -80°B | 26.1    |
| Rock sole   |       | 0.1   |       | 0.1   | 0.1   | 1.9   | 0.9   | 0.3   |       | 0.7     |       |       | 4.1     |
| Petrale s.  | 5.9   | 10.1  | 2.9   | 2.6   | 2.8   | 14.1  | 7.2   | 6.7   | 6.5   | 7.2     | 1.4   | 0.6   | 68.0    |
| Dover sole  | 41.0  | 203.8 | 62.3  | 46.5  | 35.5  | 24.1  | 15.4  | 8.8   | 15.6  | 28.8    | 7.1   |       | 488.9   |
| Rex sole    | 0.6   | 0.5   |       | 0.4   | 1.2   | 1.2   |       | 0.3   |       | 0.4     |       |       | 4.6     |
| Butter sole |       |       |       |       |       |       |       |       |       |         |       |       | 2.4     |
| Flathead s. |       |       |       |       |       |       |       | 0.1   |       | 0.2     |       |       | 0.3     |
| Sand sole   |       |       |       |       |       |       |       |       |       |         |       |       | 1.0     |
| Turbot      | 4.0   | 30.3  | 26.1  | 248.2 | 494.4 | 196.1 | 72.4  | 77.3  | 226.5 | 127.5   | 3.6   |       | 1,506.4 |
| Starry fldr |       |       |       |       |       |       |       |       |       | 0.3     |       |       | 0.3     |
| Other flat. |       |       |       |       |       |       |       |       |       |         |       |       | 6.2     |
|             |       |       |       |       |       |       |       |       |       |         |       |       |         |
| Pacific cod | 8.7   | 10.2  | 19.6  | 10.6  | 51.7  | 177.6 | 25.4  | 58.4  | 18.3  | 28.1    | 2.8   |       | 411.4   |
| Lingcod     |       | 0.5   |       | 2.7   | 33.6  | 84.2  | 32.9  | 49.7  | 26.0  | 78.7    | 4.4   |       | 312.7   |
| Sablefish   | 5.1   | 26.9  | 4.5   | 5.1   | 7.8   | 8.0   | 12.5  | 6.2   | 5.4   | 16.8    | 2.3   | 0.2   | 100.8   |
| Pollock     |       |       |       |       |       |       |       | 3.1   | 12.0  | 34.8    | 177   | 0.2   |         |
|             |       |       |       |       |       |       |       |       |       |         |       |       |         |
| Ocean perch |       | 11.9  | 2.0   | 38.0  | 32.9  | 31.0  | 17.0  | 9.4   | 10.7  | 147.6   | 18.3  |       | 318.8   |
| Bocaccio    | 8.1   | 4.7   | 1.9   | 10.2  | 9.6   | 24.5  | 12.6  | 5.9   | 15.0  | 69.4    | 19.6  | , pi  | 181.5   |
| Canary rf   | 33.2  | 14.3  | 4.2   | 27.9  | 17.9  | 27.9  | 19.8  | 11.3  | 15.3  | 61.8    | 15.6  |       | 249.2   |
| Redstripe r | 6.2   | 9.9   | 2.7   | 6.0   | 8.4   | 12.7  | 4.1   | 3.0   | 13.1  | 42.0    | 16.8  |       | 124.9   |
| Rougheye rf | 22.6  | 29.0  | 8.9   | 16.7  | 9.8   | 6.2   | 5.4   | 7.5   | 15.3  | 41.8    | 10.0  | 2.1   | 175.3   |
| Silvergray  | 13.4  | 9.3   | 3.6   | 12.7  | 9.8   | 6.8   | 6.0   | 3.0   | 6.7   | 25.3    | 9.6   | 0.1   | 106.2   |
| Yel'mouth r |       | 3.5   | 0.1   | 0.4   | 0.6   | 1.7   | 6.5   | 4.8   | 2.0   | 3.2     | 2.3   |       | 25.1    |
| Yellowtail  | 136.0 | 146.0 | 14.5  | 44.5  | 16.0  | 45.8  | 88.0  | 43.5  | 34.1  | 641.1   | 20.1  |       | 1,229.6 |
| Widow rf    | 23.1  | 22.8  | 4.4   | 6.9   | 5.5   | 11.2  | 54.6  | 17.0  | 16.0  | 419.8   | 13.6  |       | 594.9   |
| Other rf    | 8.7   | 35.0  | 7.6   | 11.1  | 21.0  | 13.8  | 9.2   | 11.5  | 15.8  | 27.8    | 22.0  | 0.3   | 183.8   |
|             |       |       |       |       |       | 83    | 12.5  | 20    | 4.9   | 11.5    | 0.9   | 0.0   |         |
| Hake        |       |       |       |       |       |       |       |       |       |         |       |       |         |
| Octopus     |       |       |       | 0.1   | 0.1   | 0.1   |       |       |       |         |       |       | 0.3     |
| Perch       |       |       |       |       | -     |       |       |       |       |         |       |       | 0.0     |
| Skate       |       |       |       |       | 0.2   | 0.8   |       |       |       |         |       |       | 1.0     |
| Squid       |       |       |       |       |       |       |       |       |       |         |       |       |         |
| Sturgeon    |       |       |       |       |       |       |       |       |       |         |       |       |         |
| Misc. sp.   |       |       |       |       |       |       |       |       |       |         |       |       |         |
| Sant poer   |       |       |       |       |       |       |       |       |       |         |       |       |         |
| Dogfish     |       |       |       |       |       | 0.5   |       |       |       |         |       |       | 0.5     |
| Reduction   | 0.1   | 7.3   | 1.1   | 8.9   | 20.5  | 10.6  | 7.6   | 3.7   | 0.2   |         |       |       | 60.0    |
| Animal food |       |       |       |       | 53.6  | 19.9  | 147   | 50 0  | 88    |         |       |       |         |
| Down sole   | 15.0  | 53.2  | 100.4 | 118.1 | 12    | 1.6   | 8.0   | 2.4   | 3.2   | 4.9     | 9.7   | 0.2   | 1553    |
| Total       | 316.9 | 578.0 | 167.1 | 500.9 | 781.6 | 708.2 | 399.7 | 332.5 | 444.9 | 1,771.5 | 170.2 | 3.2   | 6,174.7 |
| Dumped fish |       |       |       |       |       |       |       |       |       |         |       |       |         |
| Discards    | 2.6   | 8.0   | 1.4   | 56.7  | 68.1  | 144.9 | 12.5  | 6.6   | 4.9   | 126.6   | 0.5   |       | 432.8   |
|             |       |       |       |       |       |       | 1210  | 3.0   | 4.0   | 120.0   | 0.0   |       | 452.0   |

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Table 29. 1993 British Columbia trawl landings (t) of groundfish from statistical area 26.

|                  |            |       |      | 0.0   | 18'8     | 8.0  | 3.0  |       | 9.4  | 11/11/11 |       |     |       |
|------------------|------------|-------|------|-------|----------|------|------|-------|------|----------|-------|-----|-------|
| Description That | Jan        | Feb   | Mar  | · Apr | May      | Jun  | Jul  | Aug   | Sep  | Oct      | Nov   | Dec | Total |
| English s.       | 0.3        | 0.2   | 0.2  | 0.4   | 0.6      | 1.0  | 0.7  | Yelly | 0.6  | 0.1      | ISER. | 53  | 4.1   |
| Rock sole        | 0.1        |       |      |       | 1.1      | 2.0  | 0.3  |       | 0.1  | 0.1      |       |     | 3.7   |
| Petrale s.       | 0.5        | 1.2   | 0.8  | 0.6   | 0.8      | 0.8  | 0.1  |       |      | 0.6      | 0.9   |     | 6.3   |
| Dover sole       |            | 5.8   | 0.3  | 0.3   | 2.9      | 8.4  | 1.6  | 1.1   | 2.3  | 2.1      | 0.2   |     | 25.0  |
| Rex sole         |            | 0.1   | 0.7  | 0.1   |          |      |      |       |      |          |       |     | 0.9   |
| Butter sole      |            |       |      |       |          |      |      |       |      |          |       |     |       |
| Flathead s.      |            |       |      |       |          |      |      |       |      |          |       |     |       |
| Sand sole        |            |       |      |       |          |      |      |       |      |          |       |     |       |
| Turbot           |            |       |      | 7.2   | 51.1     | 19.2 | 9.2  | 15.9  | 5.3  | 3.5      |       |     | 111.4 |
| Starry fldr      |            |       |      |       |          |      |      |       |      |          |       |     |       |
| Other flat.      |            |       |      |       |          |      |      |       |      |          |       |     |       |
|                  |            |       |      |       |          |      |      |       |      |          |       |     |       |
| Pacific cod      | 3.3        | 8.6   | 5.4  | 29.8  | 7.1      | 17.0 | 1.9  | 1.2   | 0.5  | 0.7      | 0.4   | 0.1 | 76.0  |
| Lingcod          | 0.6        | 0.2   |      | 1.0   | 6.8      | 6.8  | 3.2  | 1.4   | 0.5  | 2.1      | 1.4   |     | 24.0  |
| Sablefish        |            | 1.0   |      |       | 0.7      | 2.2  | 2.0  | 1.6   | 0.1  | 0.9      |       |     | 8.5   |
| Pollock          |            |       |      |       |          |      | 0.6  |       |      |          |       |     | 0.6   |
| AUDON II.        |            |       | 27   | 4.0   | 93       | 55   | 15   | 0.8   | 0.3  | 6.1      |       |     |       |
| Ocean perch      | 33.4       | 33.4  | 2.1  | 1.8   | 5.7      | 1.8  | 0.2  | 0.6   | 0.6  | 23.4     |       |     | 103.0 |
| Bocaccio         | 1.8        | 4.2   | 0.7  | 1.4   | 3.0      | 2.0  | 2.5  | 1.7   | 5.5  | 6.2      | 1.7   |     | 30.7  |
| Canary rf        | 27.8       | 4.5   | 5.4  | 10.0  | 3.4      | 8.3  | 2.7  | 0.9   | 1.0  | 15.6     | 3.0   | 1.5 | 84.1  |
| Redstripe r      | 6.4        | 18.5  | 0.7  | 0.2   | 0.1      | 2.3  |      | 1.0   | 0.2  | 2.2      | 1.1   | 1.3 | 34.0  |
| Rougheye rf      | 4.6        | 6.6   | 197  | 33.9  | 0.1      | 0.6  | 4.8  | 2.4   | 14   | 0.3      | 0.5   |     | 12.7  |
| Silvergray       | 15.5       | 6.8   | 1.1  | 3.8   | 2.7      | 4.7  | 0.1  | 2.2   | 2.0  | 9.2      | 2.9   | 1.5 | 52.5  |
| Yel'mouth r      | 8.0        | 1.6   | 33   |       | 2.2      | 1.2  | 88   | 0.2   | 32   | 7.0      | 17.4  |     | 20.2  |
| Yellowtail       | 65.2       | 12.4  | 5.6  | 16.8  | 6.7      | 4.6  | 7.4  | 2.9   | 17.7 | 35.6     | 5.4   | 0.3 | 180.6 |
| Widow rf         | 19.7       | 3.9   | 1.8  | 12.6  | 2.7      | 0.3  | 6.7  | 0.5   | 19.9 | 42.3     | 2.4   | 1.9 | 114.7 |
| Other rf         | 1.4        | 1.4   | 0.1  | 0.7   | 0.8      | 2.3  | 2.2  | 2.8   | 0.8  | 2.3      | 1.3   |     | 16.1  |
| Male             |            |       |      |       |          |      |      |       |      |          |       |     |       |
| Hake             |            |       |      |       |          |      |      |       |      |          |       |     |       |
| Octopus          |            |       |      |       |          |      |      |       |      |          |       |     |       |
| Perch<br>Skate   |            | 0.1   |      |       | 0.1      | 0.2  |      |       |      |          |       |     | 0.4   |
| Squid            |            | 0.1   |      |       |          | 0.2  |      |       |      |          |       |     | 0.4   |
| Sturgeon         |            |       |      |       |          |      |      |       |      |          |       |     |       |
| Misc. sp.        |            |       |      |       |          |      |      |       |      |          |       |     |       |
| Sand sole        |            |       |      |       |          |      |      |       |      |          |       |     |       |
| Dogfish          |            |       | 200  | 9.5   | 1000     |      |      |       |      |          |       |     | 9.5   |
| Reduction        | 0.8        | 0.8   | 0.2  | 0.8   | 5.0      | 1.0  | 0.1  |       | 0.1  | 0.1      | 0.1   | 0.2 | 9.1   |
| Animal food      |            |       |      | 0.1   |          |      |      |       |      | 0.1      |       |     | 0.2   |
| Total            | 189.4      | 111.3 | 25.1 | 97.1  | 103.6    | 86.7 | 41.5 | 34.0  | 57.2 | 154.3    | 21.3  | 6.8 | 928.3 |
| Dumped fish      | 380<br>0.6 | 6.2   | 0.7  | VSI   | New Asia | 200  | ning | Aug   | 360  | 064      | 7424  | Dec | 756   |
| Discards         | 1.8        | 6.8   | 5.7  | 27.2  | 58.2     | 36.5 | 15.0 |       |      | 30.9     |       |     | 182.1 |
|                  |            | -     |      | 1     |          |      |      |       |      |          |       |     |       |

- 64

Table 30. 1993 British Columbia trawl landings (t) of groundfish from statistical area 27.

|              | MINISTER BEATTE | art was the | 64    | 55.75 | port  | 200   | 12.5  |       | NAME OF THE OWNER. | 54.0  |       |     | 100.5   |
|--------------|-----------------|-------------|-------|-------|-------|-------|-------|-------|--------------------|-------|-------|-----|---------|
| nubed pat    | Jan             | Feb         | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep                | Oct   | Nov   | Dec | Total   |
| English s.   | 0.6             | 0.2         | 0.7   | 0.6   | 3.6   | 1.8   | 0.9   | 0.3   | 0.4                | 0.7   | 0.1   | 0.0 | 9.9     |
| Rock sole    |                 | 2.9         | 0.8   | 1.6   | 6.7   | 4.9   | 5.5   | 2.1   | 0.5                | 1.3   | 0.6   |     | 26.9    |
| Petrale s.   | 3.6             | 7.1         | 11.0  | 5.4   | 1.7   | 1.0   | 0.9   | 0.1   |                    | 0.5   | 0.2   |     | 31.5    |
| Dover sole   | 0.1             | 1.0         | 14.2  | 11.5  | 9.6   | 7.8   | 7.4   | 4.1   | 3.9                | 8.2   | 2.6   |     | 70.4    |
| Rex sole     |                 |             |       |       |       |       |       |       |                    | 0.1   |       |     | 0.1     |
| Butter sole  |                 |             |       |       |       |       |       |       |                    |       |       |     |         |
| Flathead s.  |                 |             |       |       |       |       |       |       |                    |       |       |     |         |
| Sand sole    |                 |             |       |       |       |       |       |       |                    |       |       |     |         |
| Turbot       | 0.9             | 0.4         | 1.6   | 59.0  | 98.0  | 5.1   |       |       |                    | 4.2   |       |     | 169.2   |
| Starry fldr  |                 |             |       |       | 0.1   |       |       |       |                    |       |       |     | 0.1     |
| Other flat.  |                 |             |       |       |       |       |       |       |                    | 0.1   | 0.1   |     | 0.2     |
|              |                 |             |       |       |       |       |       |       |                    |       |       |     |         |
| Pacific cod  | 7.6             | 19.4        | 61.3  | 49.1  | 98.4  | 60.9  | 19.9  | 6.3   | 11.3               | 8.9   | 2.9   |     | 346.0   |
| Lingcod      |                 | 0.1         |       | 1.0   | 23.5  | 26.8  | 13.4  | 4.2   | 4.5                | 23.7  | 13.4  |     | 110.6   |
| Sablefish    | 0.5             | 0.1         | 0.2   | 1.7   | 3.1   | 2.1   | 4.5   | 2.1   | 2.7                | 8.3   | 3.5   | 0.2 | 29.0    |
| Pollock      |                 |             |       |       | 0.8   | 53    | 5.5   | 58    | 0.0                | 0.5   | 1.0   |     | 0.5     |
| CHART II     |                 |             |       |       |       |       |       |       |                    | 453   |       |     | 1147    |
| Ocean perch  | 108.8           | 37.2        | 22.4  | 40.0  | 97.9  | 34.3  | 51.8  | 21.0  | 25.4               | 95.1  | 22.6  | 2.1 | 558.6   |
| Bocaccio     | 9.0             | 5.5         | 3.2   | 3.7   | 13.2  | 11.1  | 9.2   | 1.6   | 3.2                | 32.7  | 17.4  |     | 109.8   |
| Canary rf    | 6.0             | 2.5         | 4.2   | 13.9  | 60.3  | 63.9  | 49.2  | 24.8  | 2.0                | 16.5  | 8.2   |     | 251.5   |
| Redstripe r  | 40.6            | 15.6        | 13.1  | 33.0  | 30.9  | 2.6   | 4.8   | 2.4   | 1.1                | 15.2  | 3.3   |     | 162.6   |
| Rougheye rf  | 6.8             | 10.5        | 5.3   | 5.5   | 7.1   | 2.9   | 1.1   | 5.5   | 9.0                | 27.0  | 4.4   |     | 85.1    |
| Silvergray   | 9.3             | 6.0         | 20.5  | 10.8  | 13.8  | 16.2  | 14.2  | 14.2  | 31.1               | 80.4  | 19.2  |     | 235.7   |
| Yel'mouth r  | 64.2            | 18.9        | 41.7  | 14.7  | 33.7  | 3.5   | 23.6  | 1.0   | 5.1                | 32.5  | 16.7  |     | 255.6   |
| Yellowtail   | 28.6            | 13.3        | 8.3   | 6.5   | 4.7   | 13.3  | 49.2  | 46.3  | 0.9                | 10.9  | 5.2   |     | 187.2   |
| Widow rf     | 11.6            | 1.7         | 6.2   | 4.0   | 3.2   | 2.2   | 1.2   | 0.5   | 0.3                | 5.1   | 1.7   |     | 37.7    |
| Other rf     | 13.4            | 21.0        | 14.1  | 26.9  | 35.4  | 14.5  | 7.3   | 11.2  | 1.9                | 24.1  | 4.0   |     | 173.8   |
| Outlot II    | 10.4            | 21.0        |       | 20.0  |       | 55    | 30    | 112   | 0.1                | 0.9   | 4.0   |     | 170.0   |
| Hake         |                 |             |       |       |       |       |       |       |                    |       |       |     |         |
| Octopus      |                 |             |       |       |       |       |       |       |                    |       |       |     |         |
| Perch        |                 |             |       |       |       |       |       |       |                    |       |       |     |         |
| Skate        |                 |             |       |       |       | 0.1   | 0.5   |       |                    |       |       |     | 0.6     |
| Squid        |                 |             |       |       |       | 0.1   | 0.5   |       |                    |       |       |     | 0.0     |
| Sturgeon     |                 |             |       |       |       |       |       |       |                    |       |       |     |         |
| Misc. sp.    |                 |             |       |       |       |       |       |       |                    | 0.3   |       |     | 0.3     |
| wilse. sp.   |                 |             |       |       |       |       |       |       |                    | 0.3   |       |     | 0.3     |
| Dogfish      |                 |             | 13.8  | 11.0  |       |       |       |       |                    |       |       |     | 24.8    |
| Reduction    | 1.7             | 0.7         |       |       | 26    | 0.1   | 0.2   |       |                    | 0.5   | 0.8   |     | 8.9     |
| Animal food  | 1.7             | 0.7         | 0.3   | 1.0   | 3.6   |       |       |       |                    | 0.5   | 0.0   |     | 0.1     |
| Ariimai 1000 |                 |             |       |       | 579   | 0.4   | 0.1   |       |                    | 0.1   | 0.0   |     | 0.1     |
| Total        | 313.3           | 164.1       | 242.9 | 300.9 | 548.5 | 275.1 | 264.8 | 147.7 | 103.3              | 396.9 | 126.9 | 2.3 | 2,886.7 |
| Dumped fish  |                 |             |       |       |       |       |       |       |                    |       | Nov   |     |         |
| Discards     | 0.5             | 5.0         |       | 3.5   | 18.2  | 8.0   | 2.0   |       | 6.1                | 12.4  |       |     | 55.7    |
| Discarus     | 0.5             | 5.0         |       | 3.5   | 10.2  | 0.0   | 2.0   |       | 0.1                | 12.4  |       |     | 55.7    |

Table 31. 1993 British Columbia trawl landings (t) of groundfish from statistical area 9.

|             |      | 54.0 | 23.6  | 0.0  | 7107,10 | 64.4  | 75.71 | 40.00   | 7.7     |      |      |     |       |
|-------------|------|------|-------|------|---------|-------|-------|---------|---------|------|------|-----|-------|
| Sumped hah  | Jan  | Feb  | Mar   | Apr  | May     | Jun   | Jul   | Aug     | Sep     | Oct  | Nov  | Dec | Total |
| English s.  | 8313 | DEVE | 148.8 | 0.1  | 0.8     | DOW'S | 030.5 | - 28V J | -cg1/3- | 19/3 | SARR |     | 0.9   |
| Rock sole   |      | 0.5  |       |      | 1.1     |       |       |         |         |      |      |     | 1.6   |
| Petrale s.  |      |      |       |      |         |       |       |         |         |      |      |     |       |
| Dover sole  |      |      |       |      |         |       |       |         |         |      |      |     |       |
| Rex sole    |      |      |       |      |         |       |       |         |         |      |      |     |       |
| Butter sole |      |      |       |      |         |       |       |         |         |      |      |     |       |
| Flathead s. |      |      |       |      |         |       |       |         |         |      |      |     |       |
| Sand sole   |      |      |       |      |         |       |       |         |         |      |      |     |       |
| Turbot      |      |      |       |      |         |       |       |         |         |      |      |     |       |
| Starry fldr |      |      |       |      |         |       |       |         |         |      |      |     |       |
| Other flat. |      |      |       |      |         |       |       |         |         |      |      |     |       |
|             |      |      |       |      |         |       |       |         |         |      |      |     |       |
| Pacific cod | 0.3  |      |       | 11.4 | 10.9    |       |       |         |         |      |      |     | 22.6  |
| Lingcod     |      |      |       |      | 2.1     |       |       |         |         |      |      |     | 2.1   |
| Sablefish   |      |      |       |      |         |       |       |         |         |      |      |     |       |
| Pollock     |      |      |       |      |         |       |       |         |         | 0.8  |      |     | 0.8   |
|             |      |      |       |      |         |       |       |         |         |      |      |     |       |
| Ocean perch |      |      |       |      |         |       |       |         |         |      |      |     |       |
| Bocaccio    | 0.4  | 0.5  |       | 5.5  | 3.8     |       |       |         |         | 2.9  | 3.0  |     | 16.1  |
| Canary rf   | 2.7  | 0.9  |       |      |         |       |       |         |         |      |      |     | 3.6   |
| Redstripe r | 2.1  | 7.9  |       | 2.7  | 1.0     |       |       |         |         |      |      |     | 13.7  |
| Rougheye rf |      |      |       |      |         |       |       |         |         |      |      |     | 690.7 |
| Silvergray  | 7.5  | 0.7  |       |      |         |       |       |         |         |      |      |     | 8.2   |
| Yel'mouth r |      |      |       |      |         |       |       |         |         |      |      |     |       |
| Yellowtail  | 1.9  |      |       |      |         |       |       |         |         |      |      |     | 1.9   |
| Widow rf    |      |      |       |      |         |       |       |         |         |      |      |     |       |
| Other rf    | 0.3  | 1.1  |       |      |         |       |       |         |         | 5.3  | 6.2  |     | 12.9  |
|             |      |      |       |      |         |       |       |         |         |      |      |     |       |
| Hake        |      |      |       |      |         |       |       |         |         |      |      |     |       |
| Octopus     |      |      |       |      |         |       |       |         |         |      |      |     |       |
| Perch       |      |      |       |      |         |       |       |         |         |      |      |     |       |
| Skate       |      |      |       |      |         |       |       |         |         |      |      |     |       |
| Squid       |      |      |       |      |         |       |       |         |         |      |      |     |       |
| Sturgeon    |      |      |       |      |         | 148.4 |       |         |         |      |      |     |       |
| Misc. sp.   |      |      |       |      |         |       |       |         |         |      |      |     |       |
|             |      |      |       |      |         |       |       |         |         |      |      |     |       |
| Dogfish     |      |      |       |      |         |       |       |         |         |      |      |     |       |
| Reduction   |      |      |       |      |         |       |       |         |         |      |      |     |       |
| Animal food |      |      |       |      |         |       |       |         |         |      |      |     |       |
| Shifting 5  | 3.3  | 0.6  | 4.0   | 0.7  | 5.8     | 1.9   | 2.5   | 1.0     | 707     | 9.4  | 37   | 9.9 | 700   |
| Total       | 15.2 | 11.6 | 100   | 19.7 | 19.7    | 1200  | -     | 100     | 111     | 9.0  | 9.2  | 0.5 | 84.4  |
|             |      |      |       |      |         |       |       |         |         |      |      |     |       |

Dumped fish

Discards

- 66 -

Table 32. 1993 British Columbia trawl landings (t) of groundfish from statistical area 11.

| Sumpau fan  | Jan   | Feb   | Mar              | Apr   | May     | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec  | Tota    |
|---|-------|-------|------------------|-------|---------|-------|-------|-------|-------|-------|-------|------|---------|
| English s.  | 2.8   | 3.0   | 2.1              | 5.1   | 8.0     | 10.0  | 4.7   | 3.5   | 4.7   | 3.5   | 3.5   | 0.2  | 51.1    |
| Rock sole   | 1.8   | 8.4   | 6.4              | 24.3  | 104.1   | 157.9 | 63.7  | 40.6  | 18.1  | 26.4  | 3.3   | 0.2  | 455.2   |
| Petrale s.  | 1.1   | 0.6   | 4.6              | 0.7   | 2.8     | 1.9   | 3.5   | 1.8   | 3.7   | 2.7   | 1.5   | 0.3  | 25.2    |
| Dover sole  | 0.1   | 0.3   | 0.2              | 0.2   | 4.0     | 11.6  | 12.0  | 6.0   | 8.1   | 6.3   | 3.7   | 3.7  | 56.2    |
| Rex sole  |       |       | 0.7              |       |         | 0.1   |       |       |       |       | 0.5   |      | 1.3     |
| Butter sole   |       |       |                  |       |         |       |       |       |       |       |       |      |         |
| Flathead s.   |       |       |                  |       |         |       |       |       |       |       |       |      |         |
| Sand sole   |       |       |                  |       |         |       |       |       |       |       |       |      |         |
| Turbot  | 0.8   | 1.2   |                  | 0.5   | 8.6     | 146.4 | 85.5  | 53.9  | 80.2  | 9.3   | 1.4   |      | 387.8   |
| Starry fldr   |       |       |                  |       |         |       |       |       | 0.3   |       |       |      | 0.3     |
| Other flat.   |       |       | 0.5              | 0.6   |         |       |       |       |       | 0.1   |       |      | 1.2     |
| NOICH   |       |       | 0.0              |       |         |       |       |       |       |       |       |      |         |
| Pacific cod   | 27.1  | 41.2  | 16.3             | 84.3  | 247.4   | 121.6 | 76.9  | 68.3  | 26.2  | 43.9  | 27.1  | 3.1  | 783.4   |
| Lingcod   | 22.4  | 69.2  | 58.1             | 27.6  | 88.7    | 86.2  | 86.1  | 61.8  | 63.7  | 50.4  | 20.6  | 34.9 | 669.7   |
| Sablefish   | 0.2   | 00.2  | 00.1             | 0.1   | 0.6     | 3.0   | 3.0   | 0.8   | 1.1   | 0.9   | 0.5   | 01.0 | 10.2    |
| Pollock   | 96.8  | 77.0  | 2.6              | 17.7  | 19.7    | 13.4  | 4.1   | 20.6  | 4.5   | 3.6   | 2.5   | 37.3 | 299.8   |
| Ollock  | 00.0  | 77.0  | 2.0              |       | 10.7    | 10.4  | ***   | 20.0  | 4.0   | 0.0   | 2.0   | 07.0 | 200.0   |
| Ocean perch   | 45.6  | 13.6  | 2.0              | 15.5  | 48.1    | 42.1  | 46.2  | 8.8   | 21.1  | 69.0  | 15.4  | 0.1  | 327.5   |
| Bocaccio  | 19.3  | 26.4  | 4.1              | 30.9  | 16.9    | 18.3  | 25.0  | 4.8   | 23.4  | 20.3  | 42.9  | 1.7  | 234.0   |
| Canary rf   | 13.0  | 5.3   | 0.4              | 7.8   | 10.5    | 11.7  | 8.5   | 1.1   | 7.1   | 12.4  | 3.7   | ""   | 81.5    |
| Redstripe r   | 135.5 | 54.9  | 5.7              | 43.6  | 82.5    | 27.6  | 34.5  | 1.8   | 28.0  | 104.3 | 14.0  | 1.3  | 533.7   |
| Rougheye rf   | 10.4  | 1.1   | 1.1              | 4.3   | 9.5     | 20.1  | 18.6  | 9.6   | 6.6   | 2.9   | 2.9   | 1.0  | 87.1    |
| Silvergray  | 30.8  | 10.5  | 5.5              | 14.4  | 24.8    | 29.4  | 21.2  | 32.1  | 54.9  | 47.9  | 30.9  | 3.0  | 305.4   |
| Yel'mouth r   | 123.4 | 35.6  | 5.5              | 24.8  | 37.7    | 24.1  | 16.7  | 0.6   | 10.5  | 55.5  | 19.4  | 5.0  | 353.8   |
| Yellowtail  | 184.9 | 150.5 | 8.2              | 52.8  | 142.5   | 142.2 | 86.8  | 61.9  | 62.4  | 116.2 | 27.2  | 7.6  | 1,043.2 |
| Widow rf  | 152.1 | 30.7  | 0.5              | 43.6  | 52.9    | 59.6  | 11.1  | 3.2   | 40.2  | 181.6 | 25.7  | 0.1  | 601.3   |
| Other rf  | 56.5  | 45.3  | 23.5             | 73.4  | 97.3    | 21.2  | 13.9  | 7.2   | 20.5  | 23.0  | 27.8  | 0.9  | 410.5   |
| Othern  | 30.3  | 40.5  | 23.5             | 73.4  | 37.3    | 21.2  | 13.3  | 1.2   | 20.5  | 23.0  | 27.0  | 0.5  | 410.5   |
| Haka  |       |       |                  |       |         |       |       |       |       |       |       |      |         |
| Hake  |       |       |                  | 0.1   |         | 0.4   | 0.3   | 0.3   | 0.7   |       | 0.1   | 0.1  | 2.3     |
| Octopus   |       |       |                  | 0.1   | 0.3     | 0.4   | 0.3   | 0.3   | 0.7   |       | 0.1   | 0.1  | 2.0     |
| Perch   | 0.1   | 0.1   | 4.0              | 4.5   | 0.7     | 1.2   |       |       | 0.4   | 0.5   | 0.1   |      | 9.2     |
| Skate   | 0.1   | 0.1   | 1.6              | 4.5   | 0.7     | 1.2   |       |       | 0.4   | 0.5   | 0.1   |      | 9.2     |
| Squid   |       |       |                  |       |         |       |       |       |       |       |       |      |         |
| Sturgeon  |       |       |                  |       |         |       |       |       |       |       |       |      |         |
| Misc. sp.   |       |       |                  |       |         |       |       |       |       |       |       |      |         |
| Dogfish   |       |       |                  |       |         |       |       |       |       |       |       |      |         |
| Reduction   | 7.0   | 2.3   | 0.3              | 1.3   | 4.1     | 9.7   | 3.7   | 8.4   | 0.4   | 0.5   | 0.7   | 0.6  | 39.0    |
| Animal food   | 7.0   | 2.0   | 0.0              | 0.1   | 0.4     | 0.7   | 0.2   | 0.4   | 0.9   | 0.1   | 0.7   | 0.0  | 1.7     |
| A mila ioou   |       |       |                  | 0.1   | 0.4     |       | U.E   |       | 0.0   | 0.1   |       |      | 1.7     |
| Total   | 931.7 | 577.2 | 149.9            | 478.2 | 1,012.1 | 959.7 | 626.2 | 397.1 | 487.7 | 781.3 | 275.4 | 95.1 | 6,771.6 |
| CONTRACTOR OF THE PARTY OF THE |       |       | we make a leader |       | 17.00   | 300   | tide. | wind  | 260   | 001   | path  | 1700 | 100     |
| Dumped fish   |       |       |                  |       | 3.0     | 2.3   | 0.3   |       |       |       |       |      | 5.6     |
| Discards  | 38.7  | 55.0  | 27.5             | 7.9   | 40.5    | 54.0  | 46.3  | 71.0  | 3.0   | 53.2  | 32.6  | 20.9 | 450.6   |

Table 33. 1993 British Columbia trawl landings (t) of groundfish from statistical area 8.

| Dompay Tels      | Jan   | Feb   | Mar   | A          | Mari       | Jun     | Jul     | Aug   | Con         | Oct     | Nov   | Dec  | Total   |
|------------------|-------|-------|-------|------------|------------|---------|---------|-------|-------------|---------|-------|------|---------|
| English s.       | Jan   | 0.3   | 1.0   | Apr<br>4.4 | May<br>8.4 | 10.7    | 17.9    | 8.9   | Sep<br>10.3 | 11.7    | 1.4   | Dec  | 75.0    |
| Rock sole        | 1.0   | 0.3   | 2.0   | 6.0        | 12.2       | 78.0    | 111.8   | 37.7  | 54.0        | 37.1    | 2.5   |      | 342.6   |
| Petrale s.       | 10.3  | 3.3   | 5.0   | 22.3       | 2.6        | 9.9     | 7.8     | 7.2   | 5.9         | 4.7     | 1.7   | 0.1  | 80.8    |
| Dover sole       | 8.7   | 1.7   | 11.4  | 16.6       | 16.1       | 86.2    | 19.2    | 30.0  | 19.4        | 39.3    | 27.3  | 3.5  | 279.4   |
| Rex sole         | 0.1   |       |       | 0.1        |            | 0.5     |         |       |             | 0.5     | 0.2   |      | 1.4     |
| Butter sole      |       |       |       |            |            |         |         |       |             |         |       |      |         |
| Flathead s.      |       |       |       |            |            |         |         |       |             |         |       |      |         |
| Sand sole        |       |       |       |            |            |         |         |       | 1.3         |         |       |      | 1.3     |
| Turbot           | 88.1  | 225.0 | 77.6  | 0.1        | 306.8      | 57.7    | 91.6    | 31.9  | 46.3        | 77.2    | 8.8   | 26.8 | 1,037.9 |
| Starry fldr      |       |       |       |            |            |         |         |       | 1.1         |         |       |      | 1.1     |
| Other flat.      |       |       |       |            | 0.7        |         |         |       |             |         |       |      | 0.7     |
| Pacific cod      | 26.9  | 1.1   | 10.9  | 20.2       | 199.4      | 208.9   | 84.1    | 19.0  | 27.8        | 27.5    | 4.5   | 5.1  | 635.4   |
| Lingcod          | 1.2   | 51.9  | 30.0  | 75.7       | 58.7       | 102.6   | 143.9   | 179.6 | 55.4        | 44.2    | 3.6   | 0.4  | 747.2   |
| Sablefish        | 0.6   | 1.2   | 1.6   | 0.4        | 0.9        | 11.5    | 6.6     | 4.6   | 2.4         | 6.0     | 1.4   | 0.5  | 37.7    |
| Pollock          |       |       |       |            | 1.2        |         | 1.2     |       | 2.2         | 4.5     | 0.5   | 11.9 | 21.5    |
|                  |       |       |       |            |            |         |         |       |             |         |       |      |         |
| Ocean perch      | 71.7  | 29.2  | 1.5   | 43.8       | 95.4       | 907.9   | 99.1    | 33.7  | 41.4        | 187.0   | 41.0  | 1.0  | 1,552.7 |
| Bocaccio         | 14.7  | 7.6   | 8.9   | 13.2       | 14.3       | 31.0    | 49.8    | 28.8  | 27.9        | 30.6    | 10.3  | 2.3  | 239.4   |
| Canary rf        | 1.3   | 2.0   | 1.0   | 13.1       | 18.8       | 21.5    | 13.8    | 5.2   | 6.1         | 19.2    | 5.8   | 1.5  | 109.3   |
| Redstripe r      | 14.0  | 52.9  | 8.2   | 29.9       | 35.8       | 32.0    | 39.5    | 16.2  | 32.2        | 113.4   | 20.5  |      | 394.6   |
| Rougheye rf      | 1.8   | 3.2   | 0.4   | 2.1        | 3.9        | 33.0    | 6.7     | 7.8   | 10.3        | 14.2    | 12.4  |      | 95.8    |
| Silvergray       | 24.9  | 20.6  | 10.4  | 27.6       | 42.0       | 35.1    | 30.1    | 20.5  | 17.8        | 25.7    | 13.7  | 2.6  | 271.0   |
| Yel'mouth r      | 16.1  | 6.5   | 5.3   | 17.1       | 11.7       | 111.0   | 22.5    | 1.8   | 5.6         | 41.7    | 4.0   |      | 243.3   |
| Yellowtail       | 17.1  | 50.8  | 9.6   | 47.8       | 188.5      | 115.1   | 124.0   | 34.5  | 35.1        | 195.4   | 10.2  | 3.7  | 831.8   |
| Widow rf         | 0.7   | 3.0   |       | 18.4       | 44.5       | 47.2    | 42.5    | 20.7  | 65.0        | 109.4   | 3.3   | 0.1  | 354.8   |
| Other rf         | 5.8   | 33.2  | 15.2  | 17.8       | 75.0       | 89.8    | 93.3    | 64.7  | 95.9        | 98.4    | 67.6  | 17.4 | 674.1   |
| Seattle Seattle  |       |       |       |            |            | 2120    |         |       |             |         |       |      |         |
| Hake             |       |       |       |            |            | 0.6     |         |       |             |         |       |      | 0.6     |
| Octopus<br>Perch |       |       |       |            | 0.2        | 0.1     | 0.1     |       | 0.1         | 0.3     |       |      | 8.0     |
| Skate            |       | 0.4   |       | 1.1        | 3.2        | 12.3    | 0.7     | 0.1   |             |         | 0.2   |      | 18.0    |
| Squid            |       |       |       |            |            |         |         |       |             |         |       |      |         |
| Sturgeon         |       |       |       |            |            |         |         |       |             |         |       |      |         |
| Misc. sp.        |       |       |       |            |            |         | 0.1     |       |             |         |       |      | 0.1     |
| Dogfish          |       |       |       |            |            |         |         |       |             |         |       |      |         |
| Reduction        | 1.2   | 0.5   | 0.5   | 3.4        | 10.1       | 13.2    | 16.9    | 0.8   |             | 2.2     | 0.9   |      | 49.7    |
| Animal food      |       |       | 0.2   | 0.2        | 0.3        | 0.5     |         |       | 0.9         | 0.1     |       |      | 2.2     |
| Total            | 306.2 | 494.7 | 200.7 | 381.3      | 1,150.7    | 2,016.3 | 1,023.2 | 553.7 | 564.4       | 1,090.3 | 241.8 | 76.9 | 8,100.2 |
| Dumped fish      |       |       |       |            |            | 1.0     |         |       |             | 0.6     |       |      | 1.6     |
| Discards         | 38.1  |       | 1.1   | 5.6        | 101.9      | 91.0    | 15.6    | 17.2  | 59.9        | 92.0    | 12.0  |      | 434.4   |

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Table 34. 1993 British Columbia trawl landings (t) of groundfish from statistical area 2BE.

| HOMBE                      |      |       |       |       |       |       |       | WATER TO STATE OF THE PARTY OF |      |       |      |     | and the same of |
|----------------------------|------|-------|-------|-------|-------|-------|-------|---|------|-------|------|-----|-----------------|
| humbed Esti                | Jan  | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep  | Oct   | Nov  | Dec | Total           |
| English s.                 | 0.3  | 3.5   | 6.0   | 3.8   | 6.5   | 8.7   | 3.0   | 3.0   | 5.3  | 1.1   | 2.2  | 0.1 | 43.5            |
| Rock sole                  | 3.2  | 15.6  | 59.3  | 184.5 | 108.7 | 111.9 | 31.5  | 13.0  | 15.9 | 9.0   | 10.0 |     | 562.6           |
| Petrale s.                 |      | 0.2   |       | 0.9   | 2.4   | 5.5   | 2.2   | 0.6   | 1.8  | 1.4   | 0.7  | 0.1 | 15.8            |
| Dover sole                 | 0.1  |       |       | 2.5   | 2.1   | 5.2   | 4.6   |   | 1.7  | 1.4   | 7.4  |     | 25.0            |
| Rex sole                   | 1.4  | 0.2   |       | 0.8   | 0.8   | 0.2   | 0.1   | 0.2   | 0.2  | 0.4   | 0.7  |     | 5.0             |
| Butter sole<br>Flathead s. |      |       | 0.4   | 0.7   |       | 0.2   |       |   |      |       | 0.2  |     | 1.5             |
| Sand sole<br>Turbot        |      | 4.5   | 9.0   | 21.0  | 9.6   | 10.9  |       |   | 1.3  |       | 0.1  |     | 56.4<br>0.1     |
| Starry fldr                |      |       | 0.1   | 0.3   | 4.4   | 0.4   |       |   | 0.7  |       |      |     | 5.9             |
| Other flat.                |      |       | 0.3   | 0.6   | 32    | 0.1   |       |   |      |       | 0.1  |     | 1.1             |
| Pacific cod                | 27.7 | 122.4 | 235.9 | 188.3 | 4.1   | 27.2  | 4.5   | 11.0  | 9.0  | 0.2   | 1.6  |     | 631.9           |
| Lingcod                    | 0.9  | 1.8   | 2.5   | 6.6   | 8.8   | 31.0  | 20.1  | 2.4   | 1.4  | 2.1   | 14.0 | 0.2 | 91.8            |
| Sablefish                  |      |       |       | 0.3   | 0.7   | 1.5   | 1.4   | 0.2   | 0.5  | 5.0   | 0.3  |     | 9.9             |
| Pollock                    |      |       |       | 1.0   |       |       |       |   | 0.6  | 0.3   | 0.6  |     | 2.5             |
| Ocean perch                | 1.9  | 1.8   | 3.4   | 35.5  | 30.2  | 221.2 | 28.3  | 5.6   | 7.6  | 46.6  | 4.0  | 0.1 | 386.2           |
| Bocaccio                   | 0.5  | 1.0   |       | 2.5   | 1.4   | 3.1   | 0.7   | 1.1   | 0.9  | 1.5   | 0.6  | 0.8 | 14.1            |
| Canary rf                  | 2.4  | 3.8   |       | 2.6   | 5.1   | 7.5   | 2.2   | 1.2   | 0.1  | 2.3   | 2.3  | 1.5 | 31.0            |
| Redstripe r                | 1.0  | 0.8   |       | 10.5  | 8.0   | 3.1   |       | 0.7   | 1.1  | 4.2   | 0.1  |     | 29.5            |
| Rougheye rf                |      |       |       | 2.1   | 0.6   |       |       |   | 0.9  | 1.9   |      |     | 5.5             |
| Silvergray                 | 9.3  | 8.2   | 0.3   | 35.2  | 16.5  | 23.6  | 18.0  | 4.4   | 7.6  | 12.6  | 2.9  | 3.1 | 141.7           |
| Yel'mouth r                | 14.7 | 3.4   | 8.9   | 0.1   | 0.7   | 15.6  | 0.5   | 0.2   |      | 0.7   | 100  | Lo  | 17.8            |
| Yellowtail                 | 0.8  | 3.4   | 0.3   | 10.1  | 0.7   | 1.1   |       | 1.9   | 2.1  | 4.5   | 2.5  | 0.5 | 27.9            |
| Widow rf                   |      |       |       |       |       | 0.4   | 1.2   |   |      | 5.4   | 8.6  | 0.3 | 1.6             |
| Other rf                   | 2.5  | 2.3   | 2.5   | 7.8   | 4.5   | 12.0  | 1.8   | 0.7   | 0.4  | 5.4   | 8.6  | 0.3 | 48.8            |
| Hake                       |      |       |       |       |       |       |       |   |      |       |      |     |                 |
| Octopus<br>Perch           | 0.1  | 0.2   | 0.2   | 0.4   | 0.6   | 0.5   |       | 0.2   | 0.1  | 0.2   | 0.6  |     | 3.1             |
| Skate<br>Squid             |      | 1.8   | 0.2   | 0.9   | 1.1   |       | 0.9   |   |      |       |      |     | 4.9             |
| Sturgeon<br>Misc. sp.      |      |       |       |       |       |       |       |   |      |       |      |     |                 |
| Dogfish                    |      |       |       |       |       |       |       |   |      |       |      |     |                 |
| Reduction                  |      | 0.2   |       | 4.0   |       | 5.4   |       |   |      |       |      |     | 9.6             |
| Animal food                |      |       | 0.4   | 0.3   |       | 1.5   | 2.0   | 0.4   | 0.7  | 0.1   | 0.3  |     | 5.7             |
| Total                      | 52.1 | 171.7 | 320.8 | 523.3 | 217.5 | 497.9 | 123.0 | 46.8  | 59.9 | 100.9 | 59.8 | 6.7 | 2,180.4         |
| Dumped fish                |      |       |       |       |       | 0.2   |       |   |      |       |      |     | 0.2             |
| Discards                   |      | 13.2  | 9.1   | 24.6  | 37.7  | 29.4  | 45.8  | 14.5  | 15.9 | 12.2  | 9.7  |     | 212.1           |

| ENGINEE .     |                       |       |       |       | 4173 |       |       |       |       | 17    |       |      |         |
|---------------|-----------------------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|------|---------|
| Maria Comment | Jan                   | Feb   | Mar   | Apr   | May  | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec  | Total   |
| English s.    | 1.3                   | 5.6   | 9.1   | 7.5   | 1.1  | 5.4   | 3.0   | 11.5  | 33.7  | 11.7  | 7.8   | 2.5  | 100.2   |
| Rock sole     | 0.6                   | 0.7   | 3.5   | 3.4   | 1.7  | 2.5   | 1.7   | 9.3   | 14.3  | 0.8   | 0.9   |      | 39.4    |
| Petrale s.    |                       |       | 0.5   | 0.1   | 0.2  | 11.8  | 5.6   | 4.0   | 3.7   | 3.0   | 4.6   | 0.3  | 33.8    |
| Dover sole    | 0.1                   |       | 1.6   | 0.3   | 0.4  | 23.9  | 25.5  | 0.6   | 8.0   | 19.0  | 48.3  | 0.5  | 128.2   |
| Rex sole      |                       | 0.2   | 0.1   | 0.1   | 0.2  | 2.7   | 1.4   |       | 0.8   | 3.0   | 3.5   | 0.6  | 12.6    |
| Butter sole   |                       |       | 0.2   |       |      |       |       |       |       |       |       |      | 0.2     |
| Flathead s.   |                       |       |       |       |      |       |       |       |       |       | 0.2   |      | 0.2     |
| Sand sole     |                       |       |       | 0.3   | 0.3  |       |       |       |       |       |       |      | 0.6     |
| Turbot        |                       |       |       |       |      | 0.8   | 13.5  |       |       | 0.1   |       |      | 14.4    |
| Starry fldr   |                       |       |       |       |      |       |       | 0.4   |       |       |       |      | 0.4     |
| Other flat.   |                       |       | 0.6   |       |      |       |       |       |       | 0.1   |       | 0.2  | 0.9     |
|               |                       |       |       |       |      |       |       |       |       |       |       |      |         |
| Pacific cod   | 5.6                   | 102.6 | 283.4 | 129.6 | 17.5 | 115.5 | 36.1  | 10.5  | 31.8  | 20.1  | 5.8   | 2.1  | 760.6   |
| Lingcod       | 0.7                   | 0.6   | 5.8   | 6.9   | 0.4  | 19.1  | 23.5  | 23.2  | 5.5   | 6.0   | 12.6  | 0.6  | 104.9   |
| Sablefish     | 0.2                   |       |       |       |      | 0.7   | 2.4   | 0.2   | 0.8   | 3.3   | 1.6   |      | 9.2     |
| Pollock       |                       |       |       | 2.1   | 1.5  | 0.7   |       | 0.7   | 3.0   | 1.5   | 2.7   | 0.2  | 12.4    |
| Other of      |                       |       |       |       |      |       |       |       |       |       |       |      | 9.7     |
| Ocean perch   |                       |       | 0.1   | 5.6   |      | 6.9   | 8.4   | 0.2   |       | 13.3  | 10.0  | 2.1  | 46.6    |
| Bocaccio      | 0.8                   | 0.6   |       | 3.4   | 0.6  | 9.6   | 1.8   | 2.4   | 4.4   | 3.1   | 1.8   | 1.8  | 30.3    |
| Canary rf     | 0.6                   | 2.5   | 0.1   | 0.8   | 1.4  | 1.3   | 0.2   | 0.1   | 1.6   | 3.4   | 0.7   | 1.1  | 13.8    |
| Redstripe r   | 0.7                   | 0.5   |       | 1.3   |      | 0.1   | 7.2   | 2.2   | 2.3   | 0.6   |       | 0.1  | 15.0    |
| Rougheye rf   |                       |       | 0.1   |       |      |       |       |       |       |       |       |      | 0.1     |
| Silvergray    | 7.1                   | 1.9   | 0.1   | 5.6   | 3.1  | 19.2  | 8.5   | 2.8   | 9.9   | 8.7   | 9.1   | 5.7  | 81.7    |
| Yel'mouth r   |                       |       |       |       |      |       |       |       |       |       |       |      |         |
| Yellowtail    | 3.8                   | 0.5   | 1.1   | 3.6   | 5.7  | 1.4   | 4.4   |       | 2.4   | 20.3  | 5.5   | 0.1  | 48.8    |
| Widow rf      | 0.1                   |       |       | 0.5   |      |       |       |       |       |       |       |      | 0.6     |
| Other rf      | 7.0                   | 0.2   | 1.0   | 1.6   | 2.3  | 5.8   | 11.9  | 0.8   | 3.9   | 16.4  | 18.2  | 5.2  | 74.3    |
|               |                       |       |       |       |      |       |       |       |       |       |       |      |         |
| Hake          |                       |       |       |       |      |       |       |       |       |       |       |      |         |
| Octopus       |                       |       | 0.1   |       |      | 0.1   |       |       | 0.1   | 0.2   | 0.2   |      | 0.7     |
| Perch         |                       |       |       |       |      |       |       |       |       |       |       |      |         |
| Skate         | 0.1                   | 0.8   | 0.1   | 2.3   | 0.1  | 0.4   | 0.5   |       | 1.0   |       |       |      | 5.3     |
| Squid         |                       |       |       |       |      |       |       |       |       |       |       |      |         |
| Sturgeon      |                       |       |       |       |      |       |       |       |       |       |       |      |         |
| Misc. sp.     |                       |       |       |       |      |       |       |       |       |       |       |      |         |
| Sand pore     |                       |       |       |       |      |       |       |       |       |       |       |      |         |
| Dogfish       |                       |       |       |       |      |       |       |       |       |       |       |      |         |
| Reduction     |                       | 0.2   |       |       |      | 1.4   |       |       |       |       |       |      | 1.6     |
| Animal food   |                       |       |       | 0.2   | 0.1  | 0.3   | 0.6   | 1.0   | 0.8   | 0.3   | 0.1   |      | 3.4     |
| Total         | 28.7                  | 116.9 | 307.5 | 175.2 | 36.6 | 229.6 | 156.2 | 69.9  | 128.0 | 134.9 | 133.6 | 23.1 | 1,540.2 |
| English s.    | ASSESSED AND ADDRESS. | 0.2   | 0.1   |       | -    |       | 500   | · ynd |       | 1001  | MON   | Dec  | 100     |
| Dumped fish   |                       |       |       |       |      |       |       |       |       |       |       |      |         |
| Discards      | 2.3                   |       | 1.8   | 6.2   | 1.8  | 12.9  | 15.9  | 29.0  | 1.4   | 35.8  | 12.4  |      | 119.5   |
|               |                       |       |       |       |      |       |       |       |       |       |       |      |         |

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Table 36. 1993 British Columbia trawl landings (t) of groundfish from statistical area 6.

|                            |     |            |     | -    |      | Jh b   | 4110 | 58.0 | 2.9  | 96.0  | 1497 |     |       |
|----------------------------|-----|------------|-----|------|------|--------|------|------|------|-------|------|-----|-------|
| inchen uss                 | Jan | Feb        | Mar | Apr  | May  | Jun    | Jul  | Aug  | Sep  | Oct   | Nov  | Dec | Total |
| English s.                 |     | 0.2        | 0.1 |      |      | 100010 | 1507 | 05.8 | 1537 | 194.9 | 0.5  | 737 | 0.8   |
| Rock sole                  |     | 0.9        |     | 1.8  |      |        |      |      |      |       |      |     | 2.7   |
| Petrale s.                 | 0.1 |            | 0.1 | 0.2  |      | 0.2    |      |      |      | 0.1   | 0.2  |     | 0.9   |
| Dover sole                 |     |            | 0.1 | 0.1  | 4.4  | 14.9   | 10.9 | 8.4  | 0.4  | 10.6  | 4.0  | 0.4 | 54.2  |
| Rex sole                   | 0.3 |            | 0.2 |      | 0.2  | 0.8    |      |      |      | 1.3   | 1.0  | 0.2 | 4.0   |
| Butter sole<br>Flathead s. |     |            |     | 0.2  |      |        |      |      |      |       |      |     | 0.2   |
| Sand sole<br>Turbot        |     | 0.3        |     |      |      | 1.2    |      |      |      |       |      |     | 0.3   |
| Starry fldr<br>Other flat. |     |            |     |      |      |        |      |      |      | 0.1   |      |     | 0.1   |
| Danifferend                |     | 0.0        |     | 0.0  |      | 0.0    |      |      |      |       | 0.0  |     | 0.4   |
| Pacific cod                | 1.3 | 0.8<br>7.0 | 2.8 | 0.2  | 0.4  | 0.2    |      |      |      | 0.3   | 0.2  |     | 3.1   |
| Lingcod                    |     | 7.0        | 2.8 |      |      | 4.0    | 0.0  |      |      | 0.3   | 0.5  | 0.4 | 10.1  |
| Sablefish                  |     | 0.0        |     |      |      | 1.0    | 0.6  |      |      | 1.9   | 0.5  | 0.1 | 4.1   |
| Pollock                    |     | 0.6        |     |      | 1.2  | 0.6    |      |      | 3.9  | 0.9   |      |     | 3.3   |
| Ocean perch                |     | 1.2        |     | 2.8  | 2.1  | 0.1    | 1.8  |      | 0.4  | 28.8  | 1.7  |     | 38.9  |
| Bocaccio                   | 0.2 | 0.5        | 0.1 | 0.3  | 0.7  | 1.5    | 0.5  |      | 0.1  | 0.8   | 0.4  |     | 4.6   |
| Canary rf                  |     |            | 0.7 | 4.4  | 1.3  | 1.2    |      |      | 0.2  | 0.2   | 0.8  |     | 8.8   |
| Redstripe r                | 1.7 | 2.1        | 0.8 | 4.1  | 1.0  | 3.2    | 4.8  |      |      | -     | 1.0  |     | 17.7  |
| Rougheye rf                | 110 |            | 0.1 |      |      | 83     | 0.2  |      |      |       |      |     | 0.2   |
| Silvergray                 | 2.3 | 7.8        | 2.9 | 10.7 | 4.0  | 8.5    | 0.2  |      | 1.5  | 2.3   | 4.1  |     | 44.3  |
| Yel'mouth r                | 2.0 |            | 0.1 | 0.1  | 0.5  | 0.0    | 11   |      | 11   | 2.0   | 18   |     | 0.7   |
| Yellowtail                 |     |            | 0.8 | 1.0  | 0.1  | 0.1    |      |      | 1.3  | 2.8   | 0.3  |     | 6.4   |
| Widow rf                   |     |            | 0.0 | 0.6  | 0.,  | 0.1    |      |      |      | 2.0   | 0.0  |     | 0.6   |
| Other rf                   | 0.4 | 3.4        | 0.5 | 0.4  | 0.4  | 14.1   | 2.6  | 0.6  | 1.3  | 5.3   | 5.1  | 2.3 | 36.4  |
| Outor II                   | 0.4 | 0.4        | 0.0 | 0.4  | 0.4  |        |      | 0.0  | 0.8  | 3.0   | 5.1  | 2.0 | 50.4  |
| Hake                       |     |            |     |      |      |        |      |      |      |       |      |     |       |
| Octopus                    |     |            |     |      |      |        |      |      |      |       |      |     |       |
| Perch                      |     |            |     |      |      |        |      |      |      |       |      |     |       |
| Skate<br>Squid             |     | 0.2        |     |      |      |        |      |      |      |       |      |     | 0.2   |
| Sturgeon                   |     |            |     |      |      |        |      |      |      |       |      |     |       |
| Misc. sp.                  |     |            |     |      |      |        |      |      |      |       |      |     |       |
| Dogfish                    |     |            |     |      |      |        |      |      |      |       |      |     |       |
| Reduction                  |     |            |     |      |      | 0.5    |      |      |      |       |      |     | 0.5   |
| Animal food                |     |            |     |      |      |        | 0.4  | 0.2  |      |       |      |     | 0.6   |
| Daniel Cod                 | 0.1 | - Koummer  | 1,6 | 0.3  | 0.4  | 23.9   | 0.4  | 0.2  | 3.7  | 3.0   | 4.6  | 0.3 | 0.0   |
| Total                      | 6.3 | 24.5       | 9.2 | 26.9 | 15.3 | 48.1   | 22.0 | 9.2  | 5.2  | 55.4  | 19.8 | 3.0 | 244.9 |
| Dumped fish                |     |            |     |      |      |        |      |      |      |       |      |     |       |
| Discards                   |     |            |     |      | 0.5  |        |      |      |      | 1.4   | 2.3  |     | 4.2   |
|                            |     |            |     |      |      |        |      |      |      |       |      |     |       |

Table 37. 1993 British Columbia trawl landings (t) of groundfish from statistical area 2AE.

|               |     |      |      | 53.0  | 30.4  |       |      |     |      |      | 177.7 |      |       |
|---------------|-----|------|------|-------|-------|-------|------|-----|------|------|-------|------|-------|
| Tubeq pro     | Jan | Feb  | Mar  | Apr   | May   | Jun   | Jul  | Aug | Sep  | Oct  | Nov   | Dec  | Total |
| English s.    | 0.2 | 3.5  | 1.8  | 3.7   | 5.7   | 2.5   | 3.6  | 0.1 | 3.6  | 5.0  | 5.1   | 0.3  | 35.1  |
| Rock sole     | 5.4 | 19.6 | 18.9 | 30.0  | 40.1  | 22.5  | 5.2  | 2.3 | 0.4  | 20.2 | 25.1  | 12.5 | 202.2 |
| Petrale s.    |     |      |      |       |       |       | 0.4  |     | 0.1  | 0.1  | 0.1   |      | 0.7   |
| Dover sole    |     |      |      |       | 0.1   | 1.1   | 0.2  |     | 0.5  | 3.1  | 0.7   |      | 5.7   |
| Rex sole      | 0.1 |      |      |       |       | 0.2   |      |     |      | 1.7  | 1.9   |      | 3.9   |
| Butter sole   |     |      | 0.6  |       |       |       |      |     |      |      | 1.7   |      | 2.3   |
| Flathead s.   |     |      |      |       |       | 0.4   |      |     |      |      |       |      | 0.4   |
| Sand sole     |     | 1.2  | 2.1  | 0.9   | 2.3   | 0.7   | 0.3  |     |      | 1.7  | 5.3   | 1.0  | 15.5  |
| Turbot        |     |      |      |       | 0.9   |       |      |     |      | 9.0  |       |      | 9.9   |
| Starry fldr   |     | 0.2  |      | 0.1   | 0.9   |       | 0.2  | 0.2 |      |      |       | 0.1  | 1.7   |
| Other flat.   |     |      | 0.5  |       |       |       |      |     |      |      | 0.1   | 0.2  | 0.8   |
|               |     |      |      |       |       |       |      |     |      |      |       |      |       |
| Pacific cod   | 0.2 | 0.7  | 9.9  | 20.9  | 10.0  | 5.6   | 4.0  |     | 6.1  | 4.8  | 3.1   | 0.1  | 65.4  |
| Lingcod       | 1.0 |      | 0.1  | 1.2   | 1.1   | 0.9   | 0.4  |     | 4.6  | 1.3  | 4.8   |      | 15.4  |
| Sablefish     |     |      |      |       |       |       |      |     |      |      |       |      |       |
| Pollock       |     |      | 0.1  |       |       | 0.8   | 2.9  | 1.6 | 1.3  | 2.1  | 24.7  | 0.1  | 33.6  |
|               |     |      |      |       | 1.0   |       |      |     |      |      |       |      |       |
| Ocean perch   |     |      |      |       |       |       |      |     |      |      | 0.2   |      | 0.2   |
| Bocaccio      |     |      |      |       |       |       | 0.3  | 0.4 | 2.7  | 0.2  | 0.9   |      | 4.5   |
| Canary rf     |     |      |      |       |       |       |      |     |      |      | 0.1   |      | 0.1   |
| Redstripe r   |     |      |      |       |       |       |      |     | 2.6  |      |       |      | 2.6   |
| Rougheye rf   |     |      |      |       |       |       |      |     |      |      |       |      |       |
| Silvergray    |     |      |      | 0.3   |       |       | 0.5  |     | 0.9  |      | 2.0   |      | 3.7   |
| Yel'mouth r   |     |      |      |       |       |       |      |     |      |      |       |      |       |
| Yellowtail    | 0.1 |      |      |       |       | 0.5   | 1.3  | 0.1 | 0.4  |      | 1.9   |      | 4.3   |
| Widow rf      |     |      |      |       |       | 0.3   |      |     |      |      |       |      | 0.3   |
| Other rf      | 0.1 | 0.5  |      | 3.0   | 3.4   | 1.3   | 1.7  |     | 1.3  | 2.2  | 5.1   | 2.2  | 20.8  |
|               |     |      |      |       |       |       |      |     |      |      |       |      |       |
| Hake          |     |      |      |       |       |       |      |     |      |      |       |      |       |
| Octopus       |     |      |      | 0.2   | 0.1   | 0.1   |      |     |      | 0.5  | 0.6   | 0.1  | 1.6   |
| Perch         |     |      |      |       |       |       |      |     |      |      |       |      |       |
| Skate         |     | 0.3  | 0.7  |       | 0.3   | 0.1   |      |     |      | 0.5  | 1.3   |      | 3.2   |
| Squid         |     |      |      |       |       |       |      |     |      |      |       |      |       |
| Sturgeon      |     |      |      |       |       |       |      |     |      |      |       |      |       |
| Misc. sp.     |     |      |      |       |       |       |      |     |      |      |       |      |       |
| Secure of the |     |      |      |       |       |       |      |     |      |      |       |      |       |
| Dogfish       |     |      |      |       |       |       |      |     |      |      |       |      |       |
| Reduction     |     |      |      |       |       | 0.9   |      |     |      |      |       | 0.1  | 1.0   |
| Animal food   |     | 0.1  |      | 0.1   | 0.3   | 0.1   | 0.4  |     |      | 0.6  | 0.9   |      | 2.5   |
| Total         | 7.1 | 26.1 | 34.7 | 60.4  | 65.2  | 38.0  | 21.4 | 4.7 | 24.5 | 53.0 | 85.6  | 16.7 | 437.4 |
| Endlink       | 5.8 | 9.1  | PER- | - You | ijit. | Money | anc  | Aug | Sep  | Del  | Nov   | Dec  | 105   |
| Dumped fish   |     |      |      |       |       |       |      |     |      |      |       |      |       |

Table 38. 1993 British Columbia trawl landings (t) of groundfish from statistical area 1E.

| ALCOHOLD TO THE REAL PROPERTY. |      |      |      | 56    | 0.8   | 41.1            |         |      |       |       |         |       |         |
|--------------------------------|------|------|------|-------|-------|-----------------|---------|------|-------|-------|---------|-------|---------|
| Dumped fish                    | Jan  | Feb  | Mar  | Apr   | May   | Jun             | Jul     | Aug  | Sep   | Oct   | Nov     | Dec   | Total   |
| English s.                     | 5.6  | 8.3  | 20.6 | 10.5  | 30.1  | 6.7             | 3.5     | 1.9  | 1.5   | 6.4   | 29.2    | 6.6   | 130.9   |
| Rock sole                      | 1.7  | 2.9  | 13.0 | 19.5  | 8.1   | 0.8             | 2.3     | 0.9  | 13.2  | 18.6  | 6.2     | 1.6   | 88.8    |
| Petrale s.                     | 0.1  |      |      |       | 0.5   | 0.2             | 0.1     | 0.1  | 0.4   | 1.3   | 1.0     | 0.3   | 4.0     |
| Dover sole                     |      |      |      | 0.5   | 3.0   | 13.6            | 17.8    | 14.8 | 11.9  | 24.1  | 16.4    | 0.7   | 102.8   |
| Rex sole                       | 0.1  | 0.3  | 0.5  |       | 1.9   | 0.2             | 0.1     | 0.6  | 1.5   | 1.9   | 7.9     | 3.0   | 18.0    |
| Butter sole                    |      |      |      |       |       |                 |         |      | 0.1   |       |         |       | 0.1     |
| Flathead s.                    |      |      |      |       |       |                 |         |      | 0.2   | 0.1   |         |       | 0.3     |
| Sand sole                      |      | 0.1  | 0.2  | 4.6   | 1.5   |                 | 0.3     |      | 3.7   | 0.1   |         |       | 10.5    |
| Turbot                         |      | 5.6  |      |       | 9.3   | 2.2             |         |      |       | 2.2   | 12.1    | 1.6   | 33.0    |
| Starry fldr                    | 0.2  | 0.1  | 0.3  | 2.4   | 2.7   | 0.2             |         |      | 0.5   | 0.4   | 0.5     |       | 7.3     |
| Other flat.                    |      |      |      |       | 0.5   |                 |         |      |       | 0.2   | 0.1     |       | 0.8     |
| D. W. and                      |      | 40.0 | 40.0 | 50.0  | 400.4 | 40.0            | 7.0     |      | 7.0   | 24.5  | 00.0    | 40.0  | 040.0   |
| Pacific cod                    | 14.5 | 46.2 | 19.9 | 58.9  | 102.1 | 13.8            | 7.0     | 6.0  | 7.2   | 24.5  | 30.2    | 10.6  | 340.9   |
| Lingcod                        | 15.6 | 2.8  | 10.2 | 4.0   | 11.0  | 10.2            | 5.1     | 1.1  | 12.1  | 10.5  | 6.7     | 7.1   | 96.4    |
| Sablefish                      |      |      |      | 0.1   | 0.4   | 0.2             | 1.8     | 0.3  | 0.7   | 2.0   | 1.0     | 0.2   | 6.7     |
| Pollock                        | 1.2  | 0.1  |      |       | 17.6  | 2.4             | 45.2    | 7.3  | 64.3  | 335.9 | 1,709.7 | 841.1 | 3,024.8 |
| Ocean perch                    |      | 0.8  |      |       | 2.0   | 9.4             | 16.7    | 0.5  | 3.7   | 17.7  | 15.4    | 11.3  | 77.5    |
| Bocaccio                       | 0.7  | 0.2  | 0.2  | 0.7   | 12.0  | 4.2             | 2.6     | 0.6  | 3.8   | 13.2  | 9.7     | 6.5   | 54.4    |
| Canary rf                      |      | 0.6  | 0.3  | 0.6   | 1.3   | 2.3             | 0.3     |      | 0.4   | 1.3   | 1.0     | 1.0   | 9.1     |
| Redstripe r                    |      | 0.3  |      |       | 0.1   | 0.3             | 0.6     |      | 0.1   | 0.2   | 1.0     | 0.6   | 3.2     |
| Rougheve rf                    |      | 0.4  |      |       |       |                 |         | 2.9  |       | 1.0   |         | 0.4   | 4.7     |
| Silvergray                     | 6.8  | 2.1  | 1.0  | 1.8   | 4.8   | 13.3            | 7.4     | 3.7  | 20.8  | 17.2  | 22.1    | 15.0  | 116.0   |
| Yel'mouth r                    | -    | 0.7  |      |       | 0.2   |                 |         | 0.4  |       | 0.8   | 0.1     | 0.700 | 1.0     |
| Yellowtail                     | 24.1 | 1.4  | 3.2  | 6.4   | 79.7  | 13.3            | 10.7    | 2.1  | 17.1  | 157.9 | 65.3    | 27.1  | 408.3   |
| Widow rf                       |      |      | 2.4  |       | 1.9   | 0.6             | 4.7     | 1.1  | 7.3   | 1.4   | 5.3     | 1.8   | 26.5    |
| Other rf                       | 0.1  |      | 0.5  | 0.5   | 2.8   | 3.0             | 5.7     | 1.2  | 7.4   | 8.2   | 13.8    | 8.3   | 51.5    |
| Make                           |      |      |      |       |       |                 |         |      |       |       |         |       |         |
| Hake                           |      |      | 0    | 13    | 0.0   |                 |         |      |       |       |         |       |         |
| Octopus<br>Perch               | 0.2  | 0.1  | 0.3  | 0.1   | 0.2   |                 |         | 0.3  |       | 0.8   | 0.2     | 0.1   | 2.3     |
| Skate                          |      | 0.5  |      |       | 0.8   |                 |         | 0.2  | 0.3   | 0.1   | 0.8     | 0.4   | 3.1     |
| Squid                          |      |      |      |       |       |                 |         |      |       |       |         |       |         |
| Sturgeon                       |      |      |      |       |       |                 |         |      |       |       |         |       |         |
| Misc. sp.                      |      |      |      |       |       |                 |         |      |       |       |         | 0.5   | 0.5     |
| Dogfish                        |      |      |      |       |       |                 |         |      |       |       |         |       |         |
| Reduction                      | 0.2  | 0.1  |      |       |       | 1.6             |         |      |       | 1.4   | 9.2     | 3.2   | 15.7    |
| Animal food                    | 0.2  | 0.1  | 0.4  | 1.2   | 1.5   | 0.1             |         | 3.2  | 1.7   | 8.3   |         |       | 46.3    |
| Animai 1000                    |      |      | 0.4  | 1.2   | 1.5   | 0.1             | 1.4     | 3.2  | 1.7   | 8.3   | 24.6    | 3.9   | 46.3    |
| Total                          | 71.1 | 73.6 | 73.0 | 111.8 | 296.0 | 98.6            | 133.3   | 48.8 | 179.9 | 656.9 | 1,989.5 | 952.9 | 4,685.4 |
| Dumped fish                    |      |      |      |       |       |                 |         |      |       |       |         |       |         |
| Discards                       |      | 1.4  |      | 29.5  | 38.3  | 6.1             | 20.9    | 4.5  | 0.5   | 27.4  | 19.7    | 4.3   | 152.6   |
|                                |      |      |      |       |       | and the same of | - Labor |      |       |       |         | -     |         |

Table 39. 1993 British Columbia trawl landings (t) of groundfish from statistical area 4.

| English s. 28.4 70.8 80.9 131.0 161.2 131.0 97.6 65.8 65.4 52.8 83.1 30.7 988. Rock sole 5.4 3.4 4.3 13.6 45.4 99.0 74.4 36.8 48.9 55.3 12.2 5.4 40.4 Petrale s. 0.1 0.1 0.3 0.1 1.0 1.0 1.2 0.4 0.1 4. Dover sole 8.2 8 48.9 94.0 64.7 33.1 1.4 444.  |  |      |       |       |       |       |       |       |       |       |       |       | 34.7 | 1010    |
|--|--|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|---------|
| English s. 28.4 70.8 80.9 131.0 161.2 131.0 97.6 65.8 65.4 52.8 83.1 30.7 988. Rock sole 5.4 3.4 4.3 13.6 45.4 99.0 74.4 38.8 49.9 55.3 12.2 5.4 40.4 Petrate s. 0.1 0.1 0.1 0.3 0.1 1.0 1.0 1.2 0.4 0.1 4.2 49.8 112.3 84.9 94.0 64.7 33.1 1.4 444. Rex sole 0.3 1.3 0.1 0.6 3.6 3.4 10.1 9.2 15.7 15.5 19.2 3.2 82. Butter sole 1.9 1.9 4.4 0.1 0.9 4.5 0.4 12. Flathead s. 0.1 0.1 0.1 0.9 4.5 0.4 12. Flathead s. 0.1 0.1 0.1 0.3 0.1 10.0 0.9 4.5 0.4 12. Flathead s. 0.1 0.1 0.1 0.9 4.5 0.4 12. Flathead s. 0.1 0.1 0.1 0.4 0.1 0.9 4.5 0.4 12. Flathead s. 0.1 0.1 0.1 0.9 4.5 0.4 12. Flathead s. 0.1 0.1 0.1 0.4 0.1 0.9 4.5 0.5 12. Starry fild of 0.2 7.1 14.8 5.0 8.4 6.8 5.5 0.8 1.0 5.9 2. 0.2 0.2 0.1 0.1 0.4 0.4 0.5 0.2 0.2 0.2 0.0 Pacific cod 44.2 37.6 23.1 112.8 127.3 20.4 7 146.3 125.2 111.9 55.8 46.4 7.2 1,042 Lingcod 5.4 14.8 8.3 4.1 12.6 13.7 6.0 4.6 6.9 10.9 15.7 4.6 107. Sabeleish 0.2 12 7.8 2.0 11.7 33.3 128.0 190.5 203.6 97.0 509.0 20.2 1,204 0.2 0.2 0.3 0.4 1.3 3.8 11.6 0.3 16. 0.3 18. 0.3 18. 0.5 10.5 0.3 0.5 0.7 0.9 0.3 0.7 0 | Ampac San  | Jan  | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec  | Total   |
| Petrales 6 0.1 0.1 0.3 0.1 1.0 1.0 1.2 0.4 0.1 1.4 44.8 Pex sole 0.3 1.3 0.1 0.6 3.6 3.4 10.1 9.2 15.7 15.5 19.2 3.2 82.0 the sole 0.3 1.3 0.1 0.6 3.6 3.4 10.1 9.2 15.7 15.5 19.2 3.2 82.0 the sole 1.9 4.4 0.1 0.1 0.9 4.5 0.4 12.1 1.8 1.2 0.6 8.0 26.6 13.9 5.4 23.3 8.9 1.8 0.5 92.0 the sole 1.8 1.2 0.6 8.0 26.6 13.9 5.4 23.3 8.9 1.8 0.5 92.0 10.0 10.4 10.0 10.0 1.0 10.0 10.0 10.   | English s.   | 28.4 | 70.8  | 80.9  |       | 161.2 | 131.0 | 97.6  |       | 65.4  | 52.8  | 83.1  | 30.7 | 998.7   |
| Deversole  | Rock sole  | 5.4  | 3.4   | 4.3   | 13.6  | 45.4  | 99.0  | 74.4  | 36.8  | 48.9  | 55.3  | 12.2  | 5.4  | 404.1   |
| Rex sole 0.3 1.3 0.1 0.6 3.6 3.4 10.1 9.2 15.7 15.5 19.2 3.2 82 butter sole 1.9 4.4 0.1 0.9 4.5 0.4 12. Flathsad s. 0.1 0.1 0.9 4.5 0.4 12. Flathsad s. 0.1 0.1 0.1 0.9 4.5 0.4 12. 12. 0.6 8.0 26.6 13.9 5.4 23.3 8.9 1.8 0.5 92. Turbot 6.4 9.7 81.6 63.7 2.23 8.9 1.8 0.5 92. Turbot 0.1 0.4 0.0 0.2 7.1 14.8 5.0 8.4 6.8 5.5 0.8 1.0 5.4 55. 0.0 0.1 0.4 0.0 0.2 0.2 0.2 0.0 0.1 0.4 0.0 0.2 0.2 0.2 0.0 0.1 0.4 0.0 0.2 0.2 0.2 0.0 0.1 0.4 0.0 0.2 0.2 0.2 0.0 0.1 0.4 0.0 0.2 0.2 0.2 0.0 0.2 0.2 0.0 0.0 0.2 0.2   | Petrale s.   |      | 0.1   |       |       | 0.1   | 0.3   | 0.1   | 1.0   | 1.0   | 1.2   | 0.4   | 0.1  | 4.3     |
| Rex sole   | Dover sole   |      |       |       |       | 4.2   | 49.8  | 112.3 | 84.9  | 94.0  | 64.7  | 33.1  | 1.4  | 444.4   |
| Flathead is Sand sole 1.8 1.2 0.6 8.0 26.6 13.9 5.4 23.3 8.9 1.8 0.5 92. Turbot 6.4 9.7 81.6 63.7 29.2 15.4 81.3 6.2 293. Starry fildr 0.2 7.1 14.8 5.0 8.4 6.8 5.5 0.8 1.0 5.4 55. When the solution of the fild of the solution of the solut | Rex sole   | 0.3  | 1.3   |       |       | 3.6   | 3.4   | 10.1  | 9.2   | 15.7  | 15.5  | 19.2  | 3.2  | 82.2    |
| Sand sole 1.8 1.2 0.6 8.0 26.6 13.9 5.4 23.3 8.9 1.8 0.5 92. Turbot 0 6.4 9,7 81.6 63.7 29.2 15.4 81.3 6.2 293. Starry flid? 0.2 7.1 14.8 5.0 8.4 6.8 5.5 0.8 1.0 5.4 55. Other flat. 0.1 0.4 8.4 6.8 5.5 0.8 1.0 5.4 55. Other flat. 0.1 0.4 8.4 6.8 5.5 0.8 1.0 5.4 55. Other flat. 0.1 0.4 8.4 6.8 5.5 0.8 1.0 5.4 55. Other flat. 0.1 0.4 8.4 6.8 5.5 0.8 1.0 5.4 55. Other flat. 0.1 0.4 8.4 6.8 5.5 0.8 1.0 5.4 55. Other flat. 0.1 0.4 8.4 6.8 5.5 0.8 1.0 5.4 55. Other flat. 0.1 0.4 0.4 8.3 125.2 111.9 55.8 46.4 7.2 1.042. Lingood 5.4 14.8 8.3 4.1 12.6 13.7 6.0 4.6 6.9 10.9 15.7 4.6 107. 33.0 15.0 7. 0.9 0.3 0.7 3. Other flat. 0.2 12.2 7.8 2.0 11.7 33.3 128.0 190.5 203.6 97.0 509.0 20.2 1.204. Ocean perch Bocaccio 0.7 0.2 0.2 0.2 0.3 0.4 1.3 3.8 11.6 0.3 18. Ocean perch Bocaccio 0.7 0.2 0.2 0.2 0.3 0.4 1.3 3.8 11.6 0.3 18. Ocean perch Bocaccio 0.7 0.2 0.2 0.2 0.1 0.1 0.1 0.1 1.8 0.5 4. Redstripe r 0.2 0.2 0.2 0.3 0.4 1.3 3.8 11.6 0.3 18. Ocean perch Bocaccio 0.7 0.2 0.2 0.1 0.1 0.1 0.1 1.8 0.5 4. Redstripe r 0.1 0.1 0.1 1.8 0.5 4. Redstripe r 0.1 0.1 0.1 0.1 1.8 0.5 4. Redstripe r 0.1 0.1 0.1 0.1 1.8 0.5 4. October flat 0.1 0.1 0.1 0.1 1.8 0.5 4. October flat 0.4 0.5 0.3 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8  | Butter sole  |      |       |       |       | 1.9   | 4.4   |       |       | 0.1   | 0.9   | 4.5   | 0.4  | 12.2    |
| Turbot    6.4   9.7   81.6   63.7   29.2   15.4   81.3   6.2   293.5   | Flathead s.  |      |       |       | 0.1   |       |       |       |       | 0.1   | 0.4   |       |      | 0.6     |
| Turbot   | Sand sole  | 1.8  | 1.2   |       | 0.6   | 8.0   | 26.6  | 13.9  | 5.4   | 23.3  | 8.9   | 1.8   | 0.5  | 92.0    |
| Starry fildr   | Turbot   |      |       |       | 6.4   | 9.7   | 81.6  | 63.7  |       | 29.2  | 15.4  | 81.3  | 6.2  | 293.5   |
| Other flat.  Other | Starry fldr  |      | 0.2   |       | 7.1   | 14.8  | 5.0   | 8.4   | 6.8   |       | 0.8   | 1.0   | 5.4  | 55.0    |
| Lingcod 5.4 14.8 8.3 4.1 12.6 13.7 6.0 4.6 6.9 10.9 15.7 4.6 107. Sablefish 0.3 0.5 0.7 0.9 0.3 0.7 3. 0.7 3. Pollock 0.2 1.2 7.8 2.0 11.7 33.3 128.0 190.5 203.6 97.0 509.0 20.2 1.204   Coean perch  | No. of the Contract of the Con |      | 4.5   |       |       |       |       |       |       |       |       | 0.2   | 0.2  | 0.9     |
| Lingcod 5.4 14.8 8.3 4.1 12.6 13.7 6.0 4.6 6.9 10.9 15.7 4.6 107. Sablefish 0.3 0.5 0.7 0.9 0.3 0.7 3. 0.7 3. Pollock 0.2 1.2 7.8 2.0 11.7 33.3 128.0 190.5 203.6 97.0 509.0 20.2 1.20 1.20 1.20 11.7 33.3 128.0 190.5 203.6 97.0 509.0 20.2 1.20 1.20 1.20 1.20 1.20 1.20 1.  | Pacific cod  | 44.2 | 37.6  | 23.1  | 1128  | 127.3 | 204.7 | 146.3 | 125.2 | 111.9 | 55.8  | 46.4  | 72   | 1,042.5 |
| Sablefish Pollock 0.2 1.2 7.8 2.0 11.7 33.3 0.5 0.7 0.9 0.3 0.7 3.3 Pollock 0.2 1.2 7.8 2.0 11.7 33.3 128.0 190.5 203.6 97.0 509.0 20.2 1.204    Ocean perch   |  |      |       |       |       |       |       |       |       |       |       |       |      | 107.6   |
| Pollock 0.2 1.2 7.8 2.0 11.7 33.3 128.0 190.5 203.6 97.0 509.0 20.2 1,204.  Ocean perch Bocaccio 0.7 0.2 0.2 0.3 0.4 1.3 3.8 11.6 0.3 18.  Canary ri 0.1 1.6 0.2 0.1 0.1 0.1 1.8 0.5 4.  Redstripe r 0.2 0.2 0.2 0.3 0.4 1.3 3.8 11.6 0.3 18.  Silvergray 1.7 1.2 0.4 0.6 0.3 0.8 0.8 2.4 1.5 9.  Yellowfall 2.0 12.2 3.2 3.3 26.2 5.5 1.2 0.1 4.2 2.5 11.0 4.4 75.  Wildow ri 0.7 2.3 0.8 0.5 1.0 0.9 6.  Other ri 0.4 1.6 0.2 0.2 0.4 1.0 2.6 3.7 4.3 6.7 4.8 2.2 28.  Hake Octopus 0.1 0.5 0.1 0.4 0.4 0.5 0.2 0.2 0.8 1.2 1.3 0.5 6.  Perch Skate 0.9 4.5 3.5 8.3 2.9 2.7 1.4 0.8 2.8 1.1 1.5 30.  Surgeon Misc. sp.  Dogfish Reduction 0.2 0.2 1.8 4.2 5.9 4.6 15.0 7.2 4.6 5.2 48.  Dumped fish 1.8 1.0  | NOT THE REAL PROPERTY.   | 0.4  | 14.0  | 0.0   |       | 12.0  |       |       |       |       |       |       |      | 3.4     |
| Ocean perch Bocaccio Ocean perch Bocaccio Ocean perch Bocaccio O.7 O.2 O.2 O.3 O.4 I.3 O.4 I.6 O.3 I.8 Canary rf O.1 I.6 O.2 O.1 O.1 I.6 O.2 O.1 Redstripe r O.2 O.2 O.3 O.4 I.3 O.1 I.8 O.5 A Redstripe r O.1 O.1 O.1 I.8 O.5 A Redstripe r O.2 O.2 O.3 O.8 O.8 O.8 I.4 I.5 O.5 A Slivergray Ocean perch Ocean perch Ocean perch Bocaccio O.7 O.2 O.2 O.4 I.5 O.1 O.1 I.8 O.5 |  | 0.2  | 12    | 7.8   | 2.0   | 11.7  |       |       |       |       |       |       | 20.2 | 1,204.5 |
| Ocean perch         0.1         0.4         0.3         0.4         1.0         0.2         3         3         2         2         2         2         2         2         2         2         1         1         1         1         1         2         2         2         2         2  |  |      |       |       |       |       | 00.0  | 12010 | 100.0 | - 5'4 |       |       |      | 7.9     |
| Bocacio 0,7 0,2 0,2 0,2 0,3 0,4 1,3 3,8 11,6 0,3 18 Canary rf 0,1 1,6 0,2 0,1 0,1 0,1 1,8 0,5 4 0,2 0,2 0,2 0,2 0,2 0,2 0,2 0,1 0,1 0,1 1,8 0,5 4 0,5 1,5 1,2 0,1 0,1 0,1 0,1 1,8 0,5 4 0,5 1,5 1,2 0,1 0,1 0,1 0,1 0,1 0,1 0,1 0,1 0,1 0,1  | Ocean perch  |      |       |       |       |       | 0.1   |       | 0.4   | 0.3   | 0.4   | 1.0   | 0.2  | 2.4     |
| Redstripe r Rougheye rf Rougheye re Rougheye rf Rougheye re Roughe | Bocaccio   |      | 0.7   |       |       | 0.2   | 0.3   |       | 0.4   | 1.3   | 3.8   | 11.6  | 0.3  | 18.8    |
| Redstripe r Rougheye rf Rougheye re Rougheye rf Rougheye re Roughe | Canary rf  | 0.1  | 1.6   | 0.2   |       | 0.1   |       |       |       | 0.1   | 0.1   | 1.8   | 0.5  | 4.5     |
| Rougheye rf Silvergray   | Redstripe r  | - 1  |       |       |       | 0.2   |       |       |       |       | 0.2   |       |      | 0.4     |
| Silvergray 1.7 1.2 0.4 0.6 0.3 0.8 0.8 2.4 1.5 9 Yel'mouth r 0.4 0.7 1.2 0.1 4.2 2.5 11.0 4.4 75 Yellowtail 2.0 12.2 3.2 3.3 26.2 5.5 1.2 0.1 4.2 2.5 11.0 4.4 75 Other rf 0.4 1.6 0.2 0.2 0.4 1.0 2.6 3.7 4.3 6.7 4.8 2.2 28  Hake Octopus 0.1 0.5 0.1 0.4 0.4 0.5 0.2 0.2 0.8 1.2 1.3 0.5 6 Perch Skate 0.9 4.5 3.5 8.3 2.9 2.7 1.4 0.8 2.8 1.1 1.5 30 Squid Sturgeon Misc. sp.  Dogfish Reduction 0.2 0.2 1.8 4.2 5.9 4.6 15.0 7.2 4.6 5.2 48  Total 89.4 154.7 133.3 292.3 437.6 671.7 672.2 551.8 628.9 401.5 853.0 96.4 4,982  Dumped fish   | Rougheye rf  |      |       |       |       |       |       |       |       | 0.1   |       |       |      | 0.2     |
| Yelmouth r       0.4         Yellowtail       2.0       12.2       3.2       3.3       26.2       5.5       1.2       0.1       4.2       2.5       11.0       4.4       75         Widow rf       0.7       2.3       0.8       0.5       1.0       0.9       6         Other rf       0.4       1.6       0.2       0.2       0.4       1.0       2.6       3.7       4.3       6.7       4.8       2.2       28         Hake       Octopus       0.1       0.5       0.1       0.4       0.4       0.5       0.2       0.2       0.8       1.2       1.3       0.5       6         Perch       Skate       0.9       4.5       3.5       8.3       2.9       2.7       1.4       0.8       2.8       1.1       1.5       30         Squid       Sturgeon       Misc. sp.       Dogsfish       Reduction       0.2       0.2       1.8       4.2       5.9       4.6       15.0       7.2       4.6       5.2       48         Total       89.4       154.7       133.3       292.3       437.6       671.7       672.2       551.8       628.9       401.5       853.0       9  | A STATE OF THE PARTY OF THE PAR |      | 1.7   | 1.2   |       |       | 0.4   | 0.6   | 0.3   |       | 0.8   | 2.4   | 1.5  | 9.7     |
| Yellowtail 2.0 12.2 3.2 3.3 26.2 5.5 1.2 0.1 4.2 2.5 11.0 4.4 75 Widow rf 0.7 2.3 0.8 0.5 1.0 0.9 6 Other rf 0.4 1.6 0.2 0.2 0.4 1.0 2.6 3.7 4.3 6.7 4.8 2.2 28  Hake Octopus 0.1 0.5 0.1 0.4 0.4 0.5 0.2 0.2 0.8 1.2 1.3 0.5 6 Perch Skate 0.9 4.5 3.5 8.3 2.9 2.7 1.4 0.8 2.8 1.1 1.5 30  Squid Sturgeon Wisc. sp.  Dogfish Reduction 0.2 0.2 1.8 4.2 5.9 4.6 15.0 7.2 4.6 5.2 48  Total 89.4 154.7 133.3 292.3 437.6 671.7 672.2 551.8 628.9 401.5 853.0 96.4 4,982  Dumped fish 1.8 1.0  | CONTRACTOR OF THE PARTY OF THE  |      | 0.4   |       |       |       |       |       |       |       |       | 0.7   |      | 1.1     |
| Widow rf       0.7       2.3       0.8       0.5       1.0       0.9       6         Other rf       0.4       1.6       0.2       0.2       0.4       1.0       2.6       3.7       4.3       6.7       4.8       2.2       28         Hake       Octopus       0.1       0.5       0.1       0.4       0.4       0.5       0.2       0.2       0.8       1.2       1.3       0.5       6         Perch       Skate       0.9       4.5       3.5       8.3       2.9       2.7       1.4       0.8       2.8       1.1       1.5       30         Squid       Sturgeon       Misc. sp.       Misc. sp.       0.2       1.0       0.3       0.2       2.1       0.4       4         Animal food       0.2       1.8       4.2       5.9       4.6       15.0       7.2       4.6       5.2       48         Total       89.4       154.7       133.3       292.3       437.6       671.7       672.2       551.8       628.9       401.5       853.0       96.4       4,982         Dumped fish       1.8       1.0       2       2       2       2       2       2 <t< td=""><td>Yellowtail</td><td></td><td>12.2</td><td>3.2</td><td></td><td>26.2</td><td>5.5</td><td>1.2</td><td>0.1</td><td>4.2</td><td>2.5</td><td>11.0</td><td>4.4</td><td>75.8</td></t<>   | Yellowtail   |      | 12.2  | 3.2   |       | 26.2  | 5.5   | 1.2   | 0.1   | 4.2   | 2.5   | 11.0  | 4.4  | 75.8    |
| Other rf   | Widow rf   |      |       |       |       |       | 0.8   |       |       |       |       | 1.0   | 0.9  | 6.2     |
| Hake Octopus 0.1 0.5 0.1 0.4 0.4 0.5 0.2 0.2 0.8 1.2 1.3 0.5 6 Perch Skate 0.9 4.5 3.5 8.3 2.9 2.7 1.4 0.8 2.8 1.1 1.5 30 Squid Squid Sturgeon Misc. sp.  Dogfish Reduction 0.2 0.2 1.8 4.2 5.9 4.6 15.0 7.2 4.6 5.2 48  Total 89.4 154.7 133.3 292.3 437.6 671.7 672.2 551.8 628.9 401.5 853.0 96.4 4,982  Dumped fish 1.8 1.0 2  | Other rf   | 0.4  |       | 0.2   | 0.2   |       | 1.0   | 2.6   | 3.7   |       | 6.7   | 4.8   | 2.2  | 28.1    |
| Hake Octopus 0.1 0.5 0.1 0.4 0.4 0.5 0.2 0.2 0.8 1.2 1.3 0.5 6 Perch Skate 0.9 4.5 3.5 8.3 2.9 2.7 1.4 0.8 2.8 1.1 1.5 30 Squid Sturgeon Misc. sp.  Dogfish Reduction 0.2 0.2 1.8 4.2 5.9 4.6 15.0 7.2 4.6 5.2 48  Total 89.4 154.7 133.3 292.3 437.6 671.7 672.2 551.8 628.9 401.5 853.0 96.4 4,982  Dumped fish 1.8 1.0  |  |      |       |       |       |       |       |       |       |       |       |       |      |         |
| Octopus 0.1 0.5 0.1 0.4 0.4 0.5 0.2 0.2 0.8 1.2 1.3 0.5 6 Perch Skate 0.9 4.5 3.5 8.3 2.9 2.7 1.4 0.8 2.8 1.1 1.5 30 Squid Sturgeon Misc. sp.  Dogfish Reduction 0.2 0.2 1.8 4.2 5.9 4.6 15.0 7.2 4.6 5.2 48  Total 89.4 154.7 133.3 292.3 437.6 671.7 672.2 551.8 628.9 401.5 853.0 96.4 4,982  Dumped fish 1.8 1.0   | Hake   |      |       |       |       |       |       |       |       |       |       |       |      |         |
| Perch         Skate       0.9       4.5       3.5       8.3       2.9       2.7       1.4       0.8       2.8       1.1       1.5       30         Squid       Sturgeon       Misc. sp.  <   |  |      |       |       |       |       |       |       |       | 0.8   | 1.2   | 1.3   | 0.5  | 6.2     |
| Squid Sturgeon Misc. sp.  Dogfish Reduction 0.2 0.2 1.8 4.2 5.9 4.6 15.0 7.2 4.6 5.2 48  Total 89.4 154.7 133.3 292.3 437.6 671.7 672.2 551.8 628.9 401.5 853.0 96.4 4,982  Dumped fish 1.8 1.0 2  | ALCOHOL: A LAND  | 10.0 | 0.0   |       |       |       |       |       |       |       |       |       |      |         |
| Sturgeon Misc. sp.  Dogfish Reduction 0.2 0.2 1.8 4.2 5.9 4.6 15.0 7.2 4.6 5.2 48  Total 89.4 154.7 133.3 292.3 437.6 671.7 672.2 551.8 628.9 401.5 853.0 96.4 4,982  Dumped fish 1.8 1.0 2  | Skate  | 0.9  | 4.5   | 3.5   | 8.3   | 2.9   | 2.7   | 1.4   | 0.8   | 2.8   | 1.1   | 1.5   |      | 30.4    |
| Sturgeon Misc. sp.  Dogfish Reduction 0.2 0.2 1.8 1.0 0.3 0.2 2.1 0.4 4 Animal food 0.2 1.8 4.2 5.9 4.6 15.0 7.2 4.6 5.2 48  Total 89.4 154.7 133.3 292.3 437.6 671.7 672.2 551.8 628.9 401.5 853.0 96.4 4,982  Dumped fish 1.8 1.0 2  | Squid  |      |       |       |       |       |       |       |       |       |       |       |      |         |
| Dogfish Reduction 0.2 0.2 1.8 1.0 0.3 0.2 2.1 0.4 4 Animal food 0.2 1.8 4.2 5.9 4.6 15.0 7.2 4.6 5.2 48  Total 89.4 154.7 133.3 292.3 437.6 671.7 672.2 551.8 628.9 401.5 853.0 96.4 4,982  Dumped fish 1.8 1.0 2  | Sturgeon   |      |       |       |       |       |       |       |       |       |       |       |      |         |
| Reduction     0.2     0.2     1.0     0.3     0.2     2.1     0.4     4       Animal food     0.2     1.8     4.2     5.9     4.6     15.0     7.2     4.6     5.2     48       Total     89.4     154.7     133.3     292.3     437.6     671.7     672.2     551.8     628.9     401.5     853.0     96.4     4,982       Dumped fish     1.8     1.0     2  | Misc. sp.  |      |       |       |       |       |       |       |       |       |       |       |      |         |
| Reduction 0.2 0.2 1.8 1.0 0.3 0.2 2.1 0.4 4 Animal food 0.2 1.8 4.2 5.9 4.6 15.0 7.2 4.6 5.2 48  Total 89.4 154.7 133.3 292.3 437.6 671.7 672.2 551.8 628.9 401.5 853.0 96.4 4,982  Dumped fish 1.8 1.0 2  | Dogfish  |      |       |       |       |       |       |       |       |       |       |       |      |         |
| Animal food 0.2 1.8 4.2 5.9 4.6 15.0 7.2 4.6 5.2 48  Total 89.4 154.7 133.3 292.3 437.6 671.7 672.2 551.8 628.9 401.5 853.0 96.4 4,982  Dumped fish 1.8 1.0 2  |  | 0.2  | 0.2   |       |       |       |       | 0.3   |       |       | 0.2   | 2.1   | 0.4  | 4.4     |
| Total 89.4 154.7 133.3 292.3 437.6 671.7 672.2 551.8 628.9 401.5 853.0 96.4 4,982  Dumped fish 1.8 1.0 2   | CONTRACTOR OF THE PARTY OF THE  | 7070 |       |       |       |       |       |       | 15.0  | 7.2   |       |       |      | 48.7    |
| Dumped fish 1.8 1.0 2  | La company of the com | - 51 |       | 01    | 0.1   | .00   | 0.3   | 92    | 0.5   | 0.7   | 3026  | 12    | 0.5  | 200 0   |
| Dumped fish 1.8 1.0 2  | Total  | 89.4 | 154.7 | 133.3 | 292.3 | 437.6 | 671.7 | 672.2 |       | 628.9 | 401.5 | 853.0 | 96.4 | 4,982.8 |
| Discords 5.0 28.1 25.4 5.8 217.6 104.3 63.5 25.2 17.1 40.4 35.5 15.4 583   | Dumped fish  |      |       |       |       | 1.8   | 1.0   |       |       |       |       |       |      | 2.8     |
| Discards 0.0 E0.1 20.4 0.0 E17.0 104.0 00.0 E0.E 17.1 40.4 00.0 10.4 00.0  | Discards   | 5.0  | 28.1  | 25.4  | 5.8   | 217.6 | 104.3 | 63.5  | 25.2  | 17.1  | 40.4  | 35.5  | 15.4 | 583.3   |

Table 40. 1993 British Columbia trawl landings (t) of groundfish from statistical area 5U.

| and the same of the same of | A CANADA     |      | 70004 | 116   |       | 1043  | 93.5 | 30.0 | Links | - N. M. M. | 411.11 | 48.4 | 6103.0  |
|-----------------------------|--------------|------|-------|-------|-------|-------|------|------|-------|------------|--------|------|---------|
| Dumped fish                 | Jan          | Feb  | Mar   | Apr   | May   | Jun   | Jul  | Aug  | Sep   | Oct        | Nov    | Dec  | Total   |
| English s.                  | 9.7          | 9.6  | 18.0  | 19.6  | 10.6  | 2.4   | 10.1 | 8.2  | 8.6   | 6.5        | 10.1   | 10.1 | 123.5   |
| Rock sole                   | 29.4         | 28.5 | 52.1  | 106.2 | 128.8 | 138.8 | 55.5 | 34.9 | 59.5  | 70.8       | 51.5   | 24.5 | 780.5   |
| Petrale s.                  | 0.1          |      | 0.1   | 0.1   | 1.0   | 0.1   | 0.2  | 0.5  | 0.7   | 0.7        | 1.5    | 0.5  | 5.5     |
| Dover sole                  |              |      | 0.1   |       | 0.5   | 0.4   | 1.6  | 9.3  | 55.2  | 23.6       | 5.7    |      | 96.4    |
| Rex sole                    | 0.4          |      | 1.0   | 1.0   | 0.3   | 0.3   |      |      | 2.0   | 0.8        | 2.1    | 1.2  | 9.1     |
| Butter sole<br>Flathead s.  |              |      |       | 0.2   | 0.3   | 0.3   |      |      |       |            | 0.5    |      | 1.3     |
| Sand sole<br>Turbot         | 1.1          | 1.7  | 0.6   | 1.9   | 3.3   | 2.1   | 0.1  |      | 6.6   | 0.8        | 1.2    | 1.0  | 20.4    |
| Starry fldr                 |              |      |       | 0.3   | 0.7   | 0.4   | 0.1  | 0.2  | 5.1   | 1.4        | 0.5    | 0.3  | 9.0     |
| Other flat.                 |              |      | 0.2   | 0.7   | 0.4   |       |      |      |       |            | 0.3    | 0.1  | 1.7     |
| Pacific cod                 | 16.8         | 9.5  | 290.2 | 439.7 | 220.7 | 52.5  | 7.1  | 10.3 | 14.9  | 1.6        | 33.7   | 20.7 | 1,117.7 |
| Lingcod                     | 0.6          | 0.8  | 2.0   | 16.0  | 4.6   | 1.4   | 0.3  | 0.5  | 0.7   | 0.6        | 0.9    | 0.8  | 29.2    |
| Sablefish                   |              |      |       |       | 3.6   |       |      | 0.8  | 4.2   | 6.9        |        |      | 15.5    |
| Pollock                     | 2.9          | 5.8  | 54.2  | 11.9  | 26.4  | 1.1   |      | 0.1  | 9.7   | 14.7       | 8.2    | 9.2  | 144.2   |
| 1 Ollock                    | 2.0          |      | 04.2  | 11.0  | 20.4  | 0.0   |      | 0.1  | 0.0   | 14.1       | 0.2    | 0.2  |         |
| Ocean perch                 |              |      | 1.3   |       | 1.5   |       |      |      | 0.1   |            |        |      | 2.9     |
| Bocaccio                    | 1.6          |      | 0.7   | 2.3   | 3.1   |       |      |      | 2.0   |            | 1.9    | 0.1  | 11.7    |
| Canary rf                   | 1.8          |      | 0.1   | 1.7   | 2.3   | 0.1   |      | 0.1  | 0.5   | 0.1        | 1.7    | 0.1  | 8.5     |
| Redstripe r                 | 3.7          |      | 0.1   | 0.7   |       | 0.1   |      | 0.1  | 0.7   | 0.1        | 0.1    | 0.1  | 5.3     |
| Rougheye rf                 |              |      |       |       |       |       |      |      |       |            |        | 22   |         |
| Silvergray<br>Yel'mouth r   | 1.2          |      | 0.2   | 2.4   | 0.8   |       |      | 0.1  | 2.1   |            | 9.2    | 2.5  | 18.5    |
| Yellowtail                  | 10.8         | 4.1  | 3.4   | 1.8   | 2.6   | 7.3   | 1.1  |      | 6.3   | 12.8       | 4.1    | 1.3  | 55.6    |
| Widow rf                    | 2.5          | 0.5  | 0.4   | 1.5   |       |       |      |      | 2.4   |            | 0.3    | 0.3  | 7.9     |
| Other rf                    | 2.8          | 0.6  | 3.6   | 5.8   | 7.0   | 7.0   | 2.5  | 1.2  | 6.0   | 3.8        | 12.9   | 4.8  | 58.0    |
| Hake                        |              |      |       |       |       |       |      |      |       |            |        |      |         |
| Octopus<br>Perch            | 0.2          |      | 0.6   | 0.5   | 0.6   | 0.3   | 0.2  | 0.3  | 1.5   | 4.5        | 5.2    | 0.3  | 14.2    |
| Skate                       |              | 4.2  | 2.9   | 3.3   | 1.7   | 0.5   |      | 0.3  |       | 0.3        |        |      | 13.2    |
| Squid                       |              |      |       |       |       |       |      |      |       |            |        |      |         |
| Sturgeon                    |              |      |       |       |       |       |      |      |       |            |        |      |         |
| Misc. sp.                   |              |      |       |       |       |       |      |      |       |            |        |      |         |
| Dogfish                     |              |      |       |       |       |       |      |      |       |            |        |      |         |
| Reduction                   |              | 0.1  |       |       |       | 6.1   |      |      |       | 0.9        | 1.0    | 0.8  | 8.9     |
| Animal food                 |              | 0.1  | 0.2   | 1.4   | 2.2   | 2.9   | 1.2  | 0.9  | 4.0   | 1.8        | 0.4    | 0.1  | 15.0    |
| Total                       | 85.6         | 65.4 | 432.0 | 619.0 | 423.0 | 224.0 | 80.0 | 67.7 | 192.8 | 152.6      | 154.2  | 78.6 | 2,574.9 |
| Dumped fish                 | 28.4<br>28.4 | 70.8 | 80.0- | Apr.  | 15500 | ges   | 701  |      | 24    | Oct        | 6500   |      |         |
| Discards                    | 30.8         | 20.3 | 1.4   | 31.8  | 9.6   | 23.9  | 4.5  | 4.5  | 12.7  | 34.9       | 10.4   | 9.5  | 194.3   |

10

Table 41. 1993 British Columbia trawl landings (t) of groundfish from statistical area 1W.

| STREET, SELL | Jan   | Feb   | Mar    | Apr   | May   | Jun    | Jul    | Aug   | Sep   | Oct   | Nov   | Dec  | Total   |
|--------------|-------|-------|--------|-------|-------|--------|--------|-------|-------|-------|-------|------|---------|
| English s.   | 100 B | 5003  | \$35.5 | EHE   | 388.3 | 22.4.7 | (6)(6) | 138'0 | 150.2 | 13179 | 245,5 | 1983 | 2,356.6 |
| Rock sole    |       |       |        |       | 0.2   |        |        |       |       |       |       |      | 0.2     |
| Petrale s.   |       | 1.3   | 0.1    | 19.2  | 8.5   | 0.3    |        |       |       |       | 0.1   |      | 29.5    |
| Dover sole   | 0.1   | 73.8  | 40.8   | 74.1  | 70.2  | 2.7    | 1.5    |       | 1.8   | 1.8   | 2.4   | 2.5  | 271.7   |
| Rex sole     |       | 7.8   | 0.3    | 8.9   | 8.3   | 9.5    | 0.3    | 0.2   | 0.2   |       | 1.2   | 1.8  | 38.5    |
| Butter sole  |       |       |        |       |       |        |        |       |       |       |       |      |         |
| Flathead s.  |       |       |        |       |       |        |        |       |       |       |       |      |         |
| Sand sole    |       |       |        |       |       |        |        |       |       |       |       |      |         |
| Turbot       |       | 19.4  | 1.2    |       |       |        |        |       |       |       |       |      | 20.6    |
| Starry fldr  |       |       |        |       |       |        |        |       |       |       |       |      |         |
| Other flat.  |       |       |        |       |       |        |        |       |       |       |       |      |         |
| Pacific cod  |       |       | 0.2    |       | 3.1   |        |        | 0.1   |       | 0.2   |       |      | 3.6     |
| Lingcod      |       |       | 0.1    | 0.1   | 0.4   | 0.8    |        | 0.5   | 0.2   | 0.4   | 0.1   | 1.0  | 3.6     |
| Sablefish    | 0.4   | 2.2   | 3.8    | 2.0   | 2.3   | 1.2    | 0.8    |       | 0.1   | 1.8   | 2.3   | 1.5  | 18.4    |
| Pollock      |       |       |        |       |       |        |        |       |       |       | 1.3   | 0.6  | 1.9     |
|              |       |       |        |       |       |        |        |       |       |       |       |      |         |
| Ocean perch  |       | 2.0   | 1.4    | 4.4   | 4.1   | 4.2    |        | 0.2   |       |       |       | 2.4  | 18.7    |
| Bocaccio     |       |       |        |       | 0.1   | 0.7    |        |       |       | 0.3   | 0.2   | 0.2  | 1.5     |
| Canary rf    |       |       | 0.2    |       | 0.1   | 1.6    |        | 0.1   | 1.3   | 0.4   |       |      | 3.7     |
| Redstripe r  |       |       | 1.3    |       | 1.2   | 2.0    |        |       | 1.4   |       |       | 6.1  | 12.0    |
| Rougheye rf  |       | 16.7  | 2.3    | 10.8  | 4.0   | 1.7    |        |       |       | 2.6   | 11.4  | 4.6  | 54.1    |
| Silvergray   | 0.5   | 0.1   | 0.7    | 5.4   | 4.1   | 3.7    |        | 6.4   | 4.9   | 2.6   | 3.1   | 2.3  | 33.8    |
| Yel'mouth r  |       | 1.1   |        |       | 0.1   | 0.7    |        |       |       |       |       | 2.3  | 4.2     |
| Yellowtail   | 71.9  |       | 1.3    |       |       |        |        | 0.9   | 0.3   |       |       | 6.1  | 8.6     |
| Widow rf     |       |       |        |       |       |        |        |       |       |       |       | 2.8  | 2.8     |
| Other rf     |       | 9.5   | 10.7   | 41.6  | 16.4  | 39.2   | 1.9    | 0.7   | 1.3   | 12.1  | 5.6   | 2.5  | 141.5   |
|              |       |       |        |       |       | 762    |        |       |       |       |       |      |         |
| Hake         |       |       |        |       |       |        |        |       |       |       |       |      |         |
| Octopus      |       |       |        |       |       |        |        |       |       |       |       |      |         |
| Perch        |       |       |        |       |       |        |        |       |       |       |       |      |         |
| Skate        |       |       |        |       |       |        |        |       |       |       |       |      |         |
| Squid        |       |       |        |       |       |        |        |       |       |       |       |      |         |
| Sturgeon     |       |       |        |       |       |        |        |       |       |       |       |      |         |
| Misc. sp.    |       |       |        |       |       |        |        |       |       |       |       |      |         |
| Dogfish      |       |       |        |       |       |        |        |       |       |       |       |      |         |
| Reduction    |       |       |        |       |       | 0.3    |        |       |       |       | 0.1   | 0.1  | 0.5     |
| Animal food  |       |       |        |       |       | 0.1    | 0.1    | 0.1   | 0.2   | 0.1   | 0.3   |      | 0.9     |
|              | 0.0   | 2.3   | 8.4    | 8.1   | 2.6   | 0.1    | 3.1    | 3.1   |       | 0.1   | 0.4   | 0.1  | 18.5    |
| Total        | 1.0   | 133.9 | 64.4   | 166.5 | 123.1 | 68.7   | 4.6    | 9.2   | 11.7  | 22.3  | 28.1  | 36.8 | 670.3   |
| Dumped fish  |       |       |        |       |       |        |        |       |       |       |       |      |         |
|              |       | 18.1  | 4.1    | 18.6  | 72.8  | 5.4    | 2.7    | 1.8   |       |       |       | 4.5  | 128.0   |

3

Table 42. 1993 British Columbia trawl landings (t) of groundfish from statistical area 2AW.

| CHIEF CO.           |       | 45.4  |       |       |       |       |       |       |       |       |       |       |         |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|
| Distriction (Inc.)  | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   | Total   |
| English s.          | 10    | 133.0 | 84.4  | 100.5 | 0.2   | 09.3  | 4.6   | 8.8   | 11.7  | 22.3  | SIT   | 30.0  | 0.2     |
| Rock sole           |       |       |       |       |       |       |       |       |       |       |       |       |         |
| Petrale s.          | 0.6   | 2.3   | 3.1   | 9.1   | 2.6   | 0.4   | 0.1   | 0.7   | 0.1   | 0.6   | 0.4   | 0.1   | 19.3    |
| Dover sole          | 3.4   | 37.2  | 43.8  | 206.6 | 71.2  | 5.9   | 4.7   | 0.1   | 0.1   | 5.1   | 1.2   | 0.9   | 380.2   |
| Rex sole            | 0.5   | 0.4   | 1.0   | 3.5   | 0.9   | 0.2   | 3.1   | 0.3   |       | 8.0   | 0.6   |       | 11.3    |
| Butter sole         |       |       |       |       |       |       |       |       |       |       |       |       |         |
| Flathead s.         |       |       |       |       |       |       |       |       |       |       |       |       |         |
| Sand sole<br>Turbot |       | 9.3   | 1.3   | 3.3   | 0.5   |       |       |       |       |       |       |       | 14.4    |
| Starry fldr         |       | 9.3   | 1.3   | 3.3   | 0.5   |       |       |       |       |       |       |       | 14.4    |
| Other flat.         |       |       |       |       |       |       |       |       |       |       |       |       |         |
| Officer flat.       |       |       |       |       |       |       |       |       |       |       |       |       |         |
| Pacific cod         | 1.3   |       | 0.3   | 0.4   | 0.8   |       |       | 0.3   | 0.1   |       |       |       | 3.2     |
| Lingcod             | 0.8   |       | 0.2   | 0.7   | 1.6   | 0.7   | 0.1   | 0.2   | 0.5   | 0.5   | 0.1   | 0.9   | 6.3     |
| Sablefish           | 1.9   | 14.7  | 3.7   | 10.8  | 7.2   | 4.2   | 7.6   | 3.1   | 2.5   | 10.9  | 6.0   | 1.3   | 73.9    |
| Pollock             | 1.0   | 8.5   | 10.7  | 10.0  | 10.4  | 39.5  | 10    | 0.7   |       | 15.7  | 8.6   |       |         |
| Window II           |       |       |       |       |       |       |       |       |       |       |       |       |         |
| Ocean perch         | 71.9  | 37.5  | 18.1  | 65.8  | 40.9  | 20.5  | 31.5  | 18.9  | 16.2  | 105.6 | 21.1  | 21.9  | 469.9   |
| Bocaccio            | 1.8   | 0.5   | 2.7   | 3.6   | 1.6   | 0.6   | 5.7   | 3.5   | 4.8   | 11.0  | 4.9   | 0.1   | 40.8    |
| Canary rf           | 4.3   | 0.1   | 4.2   | 9.8   | 1.7   | 0.4   | 0.3   | 0.1   | 2.2   | 1.1   | 0.5   | 0.3   | 25.0    |
| Redstripe r         | 36.8  | 7.5   | 6.8   | 30.6  | 24.4  | 15.7  | 16.3  | 4.7   | 17.0  | 61.7  | 67.0  | 40.5  | 329.0   |
| Rougheye rf         | 62.1  | 65.0  | 102.9 | 150.5 | 148.6 | 128.8 | 73.0  | 57.8  | 74.0  | 119.3 | 105.8 | 38.3  | 1,126.1 |
| Silvergray          | 37.4  | 11.2  | 8.6   | 52.0  | 33.0  | 15.8  | 18.3  | 5.5   | 10.5  | 33.7  | 15.6  | 9.1   | 250.7   |
| Yel'mouth r         | 34.5  | 3.7   | 7.4   | 19.4  | 20.7  | 2.6   | 7.3   | 0.9   | 6.8   | 27.0  | 6.3   | 7.0   | 143.6   |
| Yellowtail          | 14.3  | 1.3   |       | 0.6   | 0.2   | 0.4   | 1.9   |       | 2.7   | 5.0   | 0.4   |       | 26.8    |
| Widow rf            | 8.0   | 3.5   | 1.8   | 7.5   | 4.0   | 1.5   |       |       |       | 7.0   | 2.5   | 3.1   | 38.9    |
| Other rf            | 2.6   | 6.0   | 16.3  | 38.8  | 28.8  | 25.3  | 26.0  | 41.1  | 11.8  | 101.6 | 11.6  | 65.6  | 375.5   |
| contra              |       |       |       |       |       |       |       |       |       |       |       |       |         |
| Hake                |       |       |       |       |       |       |       |       |       |       |       |       |         |
| Octopus<br>Perch    |       |       |       |       |       |       |       |       |       |       |       |       |         |
| Skate               |       |       |       |       |       |       |       |       |       |       |       |       |         |
| Squid               |       |       |       |       |       |       |       |       |       |       |       |       |         |
| Sturgeon            |       |       |       |       |       |       |       |       |       |       |       |       |         |
| Misc. sp.           |       |       |       |       | 0.4   |       |       |       |       |       |       |       | 0.4     |
| miou. op.           |       |       |       |       | 0.4   |       |       |       |       |       |       |       | 0.4     |
| Dogfish             |       |       |       |       |       |       |       |       |       |       |       |       |         |
| Reduction           | 0.1   |       |       |       | 9.3   | 0.8   |       |       |       | 0.4   | 1.0   | 0.1   | 11.7    |
| Animal food         |       |       |       | 1.6   | 0.6   | 0.9   | 1.2   | 0.4   | 0.9   | 3.5   | 0.3   |       | 9.4     |
| Personal a          |       | 1.3   | 0.1   | 18.2  | 8.0   | 0.3   |       | 320   |       |       | 0.4   |       | - 39-1  |
| Total               | 282.3 | 200.2 | 222.2 | 614.6 | 399.2 | 224.7 | 197.0 | 136.9 | 150.2 | 494.8 | 245.3 | 189.2 | 3,356.6 |
| Dumped fish         |       |       |       |       |       |       |       |       |       |       |       |       |         |
| Discards            | 1.8   | 3.6   | 11.0  | 23.1  | 22.2  | 2.3   |       |       | 19.5  | 59.4  | 5.4   | 19.1  | 167.4   |

Table 43. 1993 British Columbia trawl landings (t) of groundfish from statistical area 2BW.

15 .

| mutted 150              | Jan   | Feb   | Mar   | Apr  | May    | Jun   | Jul     | Aug                                   | Sep   | Oct    | Nov   | Dec  | Total   |
|-------------------------|-------|-------|-------|------|--------|-------|---------|---------------------------------------|-------|--------|-------|------|---------|
| English s.              |       |       |       |      |        |       |         |                                       |       |        |       |      |         |
| Rock sole<br>Petrale s. | 0.4   |       |       |      |        |       |         |                                       |       |        |       |      | 0.4     |
| Dover sole              | 0.4   |       |       |      |        |       |         |                                       |       |        |       |      | 0.4     |
| Rex sole                |       |       |       |      |        | -0.7  |         |                                       |       |        |       |      | 0.4     |
| Butter sole             |       |       |       |      |        | 43    |         |                                       |       |        |       |      | 0.7     |
| Flathead s.             |       |       |       |      |        |       |         |                                       |       |        |       |      |         |
| Sand sole               |       |       |       |      |        |       |         |                                       |       |        |       |      |         |
| Turbot                  | 12.1  |       |       |      |        |       |         |                                       |       |        |       |      | 12.1    |
| Starry fldr             |       |       |       |      |        |       |         |                                       |       |        |       |      | 0.1     |
| Other flat.             |       |       |       |      |        |       |         |                                       |       |        |       |      |         |
| out to                  |       |       |       |      |        |       |         |                                       |       |        |       |      |         |
| Pacific cod             |       |       |       |      |        |       |         |                                       |       |        |       |      |         |
| Lingcod                 |       |       |       |      |        |       |         |                                       |       |        |       |      |         |
| Sablefish               | 0.1   |       |       |      |        |       |         |                                       |       |        |       |      | 0.1     |
| Pollock                 |       |       |       |      |        | 205.4 |         |                                       |       | 200.4  |       |      |         |
|                         |       |       |       |      |        |       |         |                                       |       | \$14.3 |       |      |         |
| Ocean perch             | 5.6   | 1.7   |       |      |        |       |         | 2822                                  |       |        |       |      | 7.3     |
| Bocaccio                | 262.1 |       |       |      |        |       |         |                                       |       |        |       |      |         |
| Canary rf               |       |       |       |      |        |       |         |                                       |       |        |       |      |         |
| Redstripe r             |       | 0.6   |       |      |        |       |         |                                       |       |        |       |      | 0.6     |
| Rougheye rf             | 200 8 |       |       |      |        |       |         |                                       |       |        |       |      | 1,800.8 |
| Silvergray              |       |       |       |      |        |       |         |                                       |       |        |       |      |         |
| Yel'mouth r             |       |       |       |      |        |       |         |                                       |       |        |       |      |         |
| Yellowtail              |       |       |       |      |        |       |         |                                       |       |        |       |      |         |
| Widow rf                |       |       |       |      |        |       |         |                                       |       |        |       |      |         |
| Other rf                |       | 0.2   |       | 0.2  |        | 1.7   |         |                                       |       |        |       |      | 2.1     |
|                         |       |       |       |      |        |       |         |                                       |       |        |       |      |         |
| Hake                    |       |       |       |      |        |       |         |                                       |       |        |       |      |         |
| Octopus                 |       |       |       |      |        |       |         |                                       |       |        |       |      |         |
| Perch                   | +-    |       |       |      |        |       |         |                                       |       |        |       |      |         |
| Skate                   |       |       |       |      |        |       |         |                                       |       |        |       |      |         |
| Squid                   |       |       |       |      |        |       |         |                                       |       |        |       |      |         |
| Sturgeon                |       |       |       |      |        |       |         |                                       |       |        |       |      |         |
| Misc. sp.               |       |       |       |      |        |       |         |                                       |       |        |       |      |         |
| Target S.               |       |       |       |      |        |       |         |                                       |       |        |       |      |         |
| Dogfish                 |       |       |       |      |        |       |         |                                       |       |        |       |      |         |
| Reduction               |       |       |       |      |        |       |         |                                       |       |        |       |      |         |
| Animal food             |       |       |       |      |        |       |         |                                       |       |        |       |      |         |
| ACRE C                  | 0.51  | 107.9 | 6510  | 55.7 | 31.3   | 49.9  | 47.4    | 1011                                  | 22.00 | 543.5  | 1177  | 43.3 | 3 014   |
| Total                   | 18.6  | 2.5   | 174.5 | 0.2  | 10,110 | 2.4   | 4600 10 | A A A A A A A A A A A A A A A A A A A | Inch  | JOSE L | 100'4 | 200  | 23.7    |
| Enderh z                |       |       |       |      |        |       |         |                                       |       |        |       |      |         |

Dumped fish Discards

Table 44. 1993 British Columbia trawl landings (t) of groundfish - coastwide total.

| Half badmur | Jan     | Feb     | Mar     | Apr     | May     | Jun     | Jul     | Aug     | Sep     | Oct     | Nov     | Dec     | Total    |
|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| English s.  | 54.1    | 129.1   | 150.9   | 200.1   | 269.7   | 198.7   | 160.1   | 118.6   | 152.6   | 124.7   | 157.4   | 54.4    | 1,770.4  |
| Rock sole   | 56.4    | 105.7   | 174.5   | 396.7   | 474.0   | 626.1   | 366.6   | 181.7   | 228.5   | 243.2   | 113.6   | 47.3    | 3,014.3  |
| Petrale s.  | 89.7    | 103.9   | 43.6    | 66.7    | 31.3    | 49.9    | 47.1    | 26.5    | 42.0    | 42.0    | 33.0    | 2.8     | 578.5    |
| Dover sole  | 165.6   | 533.8   | 510.0   | 941.5   | 333.9   | 288.6   | 259.5   | 195.6   | 241.2   | 280.3   | 185.5   | 21.8    | 3,957.3  |
| Rex sole    | 4.2     | 19.7    | 12.4    | 30.0    | 17.6    | 21.2    | 16.2    | 14.8    | 22.5    | 29.9    | 41.5    | 10.0    | 240.0    |
| Butter sole |         |         | 1.2     | 1.1     | 2.2     | 4.9     |         |         | 0.2     | 0.9     | 6.9     | 0.4     | 17.8     |
| Flathead s. |         |         |         | 0.1     |         | 0.4     | 0.2     | 1.2     | 0.8     | 1.5     | 3.5     |         | 7.7      |
| Sand sole   | 4.5     | 12.7    | 12.5    | 29.3    | 25.3    | 40.3    | 14.6    | 6.5     | 36.3    | 11.5    | 8.4     | 2.5     | 204.4    |
| Turbot      | 119.6   | 302.7   | 201.6   | 447.5   | 1,035.2 | 537.8   | 376.8   | 181.7   | 410.0   | 260.7   | 110.7   | 35.7    | 4,020.0  |
| Starry fldr | 8.3     | 10.1    | 1.8     | 11.2    | 24.0    | 6.1     | 8.7     | 7.6     | 13.2    | 4.4     | 2.6     | 6.8     | 104.8    |
| Other flat. |         | 2.5     | 3.6     | 1.9     | 1.7     | 0.5     |         |         |         | 0.6     | 0.9     | 0.9     | 12.6     |
| Pacific cod | 316.7   | 1,383.1 | 1,110.0 | 1,172.1 | 1,328.5 | 1,083.0 | 485.7   | 341.1   | 373.5   | 264.9   | 181.1   | 52.5    | 8,092.2  |
| Lingcod     | 49.3    | 150.7   | 120.1   | 148.0   | 424.9   | 482.6   | 770.1   | 344.6   | 460.8   | 466.9   | 290.0   | 50.5    | 3,758.5  |
| Sablefish   | 17.2    | 87.4    | 31.5    | 35.6    | 42.0    | 48.0    | 71.5    | 28.5    | 39.2    | 110.8   | 23.8    | 5.4     | 540.9    |
| Pollock     | 352.8   | 1,644.6 | 1,102.4 | 161.0   | 79.3    | 52.3    | 182.0   | 220.8   | 289.2   | 461.8   | 2,261.0 | 1,165.9 | 7,973.1  |
| Ocean perch | 343.8   | 194.2   | 77.0    | 322.3   | 481.0   | 1,315.5 | 370.7   | 127.8   | 143.7   | 975.9   | 162.8   | 46.8    | 4,561.5  |
| Bocaccio    | 60.4    | 70.1    | 22.8    | 80.2    | 106.9   | 126.3   | 128.3   | 61.5    | 106.8   | 211.7   | 131.1   | 15.5    | 1,121.6  |
| Canary rf   | 106.8   | 50.6    | 24.1    | 112.3   | 171.3   | 192.2   | 134.5   | 65.8    | 60.6    | 155.6   | 50.3    | 8.2     | 1,132.3  |
| Redstripe r | 260.9   | 179.1   | 40.0    | 174.0   | 222.9   | 115.0   | 142.4   | 40.0    | 117.0   | 398.5   | 153.3   | 57.7    | 1,900.8  |
| Rougheye rf | 143.6   | 192.4   | 149.6   | 226.6   | 196.9   | 195.8   | 110.8   | 92.4    | 120.1   | 233.8   | 163.4   | 50.6    | 1,876.0  |
| Silvergray  | 169.0   | 98.5    | 57.6    | 186.8   | 176.2   | 181.2   | 133.6   | 102.2   | 184.7   | 275.1   | 147.8   | 46.7    | 1,759.4  |
| Yel'mouth r | 252.1   | 73.2    | 61.6    | 78.8    | 118.6   | 164.3   | 83.9    | 10.6    | 32.2    | 178.1   | 50.4    | 10.4    | 1,114.2  |
| Yellowtail  | 609.3   | 573.4   | 66.0    | 219.3   | 588.0   | 434.5   | 444.5   | 263.9   | 264.1   | 1,273.6 | 174.8   | 51.1    | 4,962.5  |
| Widow rf    | 231.9   | 72.4    | 17.5    | 99.2    | 121.4   | 129.1   | 141.5   | 46.2    | 165.8   | 814.3   | 56.3    | 12.1    | 1,907.7  |
| Other rf    | 112.8   | 203.9   | 133.5   | 275.3   | 346.4   | 285.4   | 224.4   | 153.6   | 190.6   | 380.4   | 224.6   | 112.1   | 2,643.0  |
| Hake        |         | 569.7   | 1.632.5 | 678.5   | 562.3   | 1,233.1 | 1,372.8 | 2,223.1 | 3,492.8 | 2,280.1 | 1,914.3 |         | 15,959.2 |
| Octopus     | 0.8     | 1.5     | 1.4     | 1.9     | 2.9     | 2.2     | 0.9     | 1.4     | 3.5     | 8.1     | 8.4     | 1.1     | 34.1     |
| Perch       |         |         |         |         |         |         |         |         |         |         |         |         |          |
| Skate       | 2.4     | 15.7    | 10.2    | 21.5    | 13.3    | 19.2    | 5.6     | 2.5     | 6.3     | 3.9     | 4.7     | 0.7     | 106.0    |
| Squid       |         |         | 0.1     |         |         |         |         |         |         |         |         |         | 0.1      |
| Sturgeon    |         |         |         |         | 0.1     |         |         |         |         |         |         |         | 0.1      |
| Misc. sp.   |         |         |         |         | 0.4     | 0.2     | 0.6     | 1.5     | 13.4    | 0.3     |         | 0.5     | 16.9     |
| Dogfish     |         | 2.0     | 13.8    | 20.5    | 6.0     | 1.2     |         | 3.4     | 6.4     |         | 1.3     | 1.3     | 55.9     |
| Reduction   | 22.4    | 116.8   | 56.3    | 61.6    | 59.0    | 61.2    | 56.9    | 127.4   | 122.8   | 33.5    | 37.9    | 14.7    | 770.5    |
| Animal food | 0.4     | 11.7    | 1.4     | 7.0     | 9.6     | 12.3    | 12.1    | 21.2    | 17.3    | 19.7    | 32.1    | 3.9     | 148.3    |
|             | 0.4     |         |         |         |         | .2.0    |         |         |         | 10.1    | -       | 0.0     | 1-10.0   |
| Total       | 3,554.6 | 6,911.2 | 5,841.5 | 6,208.6 | 7,272.8 | 7,909.1 | 6,122.6 | 5,013.7 | 7,358.1 | 9,546.7 | 6,733.4 | 1,890.3 | 74,362.6 |
| Dumped fish |         | 0.4     |         |         | 4.8     | 4.5     | 0.4     |         |         | 0.8     |         |         | 10.9     |
|             |         |         |         |         |         |         |         |         |         |         |         |         |          |

#### OTHER GROUNDFISH FISHERIES

Groundfish landings in this category are those caught by longline, trap, handline, troll, and incidental to shrimp trawl. In 1993, these landings totalled 8,743 t, 7% below the 1992 total. Sablefish (4,567 t), rockfish (1,988 t), lingcod (1,478 t) and dogfish (666 t) accounted for 99% of the catch by other gear. Catches by main species, gear type and major area are represented in Table 45.

No effort data are available for handline, troll, longline, incidental to shrimp trawl or miscellaneous gears. The catches for these gears were obtained from <u>British Columbia</u> Commercial Catch Statistics 1993, by Species, Gear, Month, and Area, Fisheries and Oceans, Canada, Pacific Region.

Interviews were conducted with skippers of sablefish trap vessels to obtain catch and effort data. Total trap landings of sablefish in 1993 were 4,195 t. This includes 4,143 t by vessels having individual quotas, as well as 52 t that were caught by vessels obtaining special scientific permits to fish on several offshore seamounts. The fish caught on the seamounts is not part of the coastwide quota for sablefish and the catch has been separated out in the tables and figure. The main areas of production for the quota trap fishery were the west coast of the Queen Charlotte Islands (area 5E), north Queen Charlotte Sound (area 5B), south Queen Charlotte Sound (area 5A) and the northwest coast of Vancouver Island (area 3D), accounting for 57%, 14%, 14% and 13%, respectively. Trap landings of groundfish in 1993 by major area, month and species, are presented in Tables 46-53. Eighty-one percent (by weight) of the trap landings were covered by interviews. Table 54 shows the monitored landings, effort and CPUE by major area. A separation of the 1993 trap landings by minor area is given in Table 55. Figure 5 illustrates total trap catches (t) and monitored effort (traps) by major area.

Table 45. British Columbia landings (t, round weight) of groundfish caught by gear other than trawl in 1993 by major area and species.

| and species.                       |               |             |            |              |                          |             |             |             |         |
|------------------------------------|---------------|-------------|------------|--------------|--------------------------|-------------|-------------|-------------|---------|
|                                    |               | ERIES       |            | Major area   | MO NOR                   | (0)         |             |             |         |
| Gear and species                   | 4B            | 3C          | 3D         | 5A           | 5B                       | 5C          | 5D          | 5E          | Total   |
| Handline and troll                 |               |             |            |              |                          |             |             |             |         |
| Dogfish                            | 28.0          |             | 2.3        |              |                          |             |             |             | 30.     |
| Lingcod                            | 13.0          | 159.2       | 372.2      | 20.5         | 6.4                      | 21.0        | 60.9        | 21.8        | 675.    |
| Pacific cod                        | 0.1           | 155.2       | 312.2      | 20.5         | 0.4                      | 0.1         | tr.         | 21.0        |         |
| Pacific cod<br>Pacific ocean perch |               | tr.         |            | The state of | -2 /- 00                 | 0.1         |             | P 30 Hells  | 0.      |
| Other rockfish                     | tr.<br>160.7  | tr.<br>20.6 | 130.1      | 8.5          | 25.9                     | 01.4        | tr.<br>36.9 | 45.4        | 0.      |
| Sablefish                          | 100.7         | 0.1         | 130.1      | 0.5          | 25.9                     | 21.4        | 30.9        | 15.1        | 419.    |
|                                    | - 00          |             |            | -            |                          | -           |             | 1.84-0      | 0.      |
| Sole                               | 0.3           | tr.         | tr.        |              |                          |             |             | -           | 0.      |
| Misc. species                      | 10.3          | 0.8         | 0.7        | tr.          | 0.4                      | Aglicus et  | 0.5         | No effi     | 12.     |
| Incidental to shrimp t             | rawl          |             |            |              |                          |             |             |             |         |
| Other rockfish                     | Fisherjes a   | 1.6         | LidgmobiL  | ies. Gear    | J. by Spec               |             |             |             | 1.0     |
| Other rockiish                     |               | 1.0         |            |              |                          |             | c Region    | da, Facifi  | ma) I.  |
| Longline                           |               |             |            |              |                          |             |             |             |         |
| Dogfish                            | 322.6         | 212.8       | d Desirate | 27.1         | nac njiw id<br>Refiredan | 4.2         | nest lete   | 68.5        | 635.    |
| Lingcod                            | 2.8           | 62.2        | 301.0      | 37.1         | 38.2                     | 74.8        | 139.5       | 138.5       | 794.    |
| Pacific cod                        | 0.4           | 0.1         | 0.6        | IL WELL OF   | 0.2                      | tr.         | 2.1         | 0.2         | 3.      |
| Pacific ocean perch                | i a tra comme | 1.7         | 0.1        | tr.          | 1.7                      | norizito la | 0.2         | dell of the | 3.      |
| Other rockfish                     | 38.0          | 44.1        | 476.4      | 139.9        | 138.0                    | 163.6       | 237.7       | 324.5       | 1,562.  |
| Pollock                            | - 00.0        |             |            |              | 100.0                    | 100.0       | 0.3         | 024.0       | 0.3     |
| Sablefish                          | on the One    | 94.3        | 173.6      | A Albusia    | den minni                | 90.7        | 0.0         | 65.7        | 424.3   |
| Sole                               | ST tr         | 34.0        | 170.0      | one boud     | 0.1                      | tr.         | 8.8         | tr.         | 8.9     |
| Misc. species                      | 3.2           | 2.5         | 5.3        | 0.2          | 0.7                      | 0.8         | 0.5         | tr.         | 13.2    |
| Trap                               |               |             |            |              |                          |             |             |             |         |
| Sablefish <sup>a</sup>             | major are     | CPUE by     | 528.3      | 578.7        | 599.4                    | 14.8        | 45.3        | 2,376.3     | 4,142.8 |
| Misc. gears <sup>b</sup>           |               |             |            |              |                          |             |             |             |         |
|                                    |               |             |            |              |                          |             |             | 4.0         |         |
| Lingcod                            | 0.1           | tr.         | -          | -            | tr.                      | 2.1         | 4.4         | 1.8         | 8.4     |
| Pacific cod                        | tr.           |             |            |              | -                        |             |             |             | tr.     |
| Other rockfish                     | -             | -           |            |              | -                        |             | 0.9         | tr.         | 0.9     |
| Misc. species                      | 5.5           | 0.3         |            |              |                          |             |             |             | 5.8     |
| <u>Total</u>                       |               |             |            |              |                          |             |             |             |         |
| Dogfish                            | 350.6         | 212.8       | 2.3        | 27.1         |                          | 4.2         |             | 68.5        | 665.    |
| Lingcod                            | 15.9          | 221.4       | 673.2      | 57.6         | 44.6                     | 97.9        | 204.8       | 162.1       | 1,477.  |
| Pacific cod                        | 0.5           | 0.1         | 0.6        |              | 0.2                      | 0.1         | 2.1         | 0.2         | 3.      |
| Pacific ocean perch                | -             | 1.7         | 0.1        |              | 1.7                      | - 0.1       | 0.2         | - 0.2       | 3.      |
| Other rockfish                     | 198.7         | 66.3        | 606.5      | 148.4        | 163.9                    | 185.0       | 275.5       | 339.6       | 1,983.  |
| Pollock                            | -             | - 00.0      | -          | -            | -                        | -           | 0.3         | -           | 0.3     |
| Sablefish                          |               | 94.4        | 701.9      | 578.7        | 599.4                    | 105.5       | 45.3        | 2,442.0     | 4,567.  |
| Sole                               | 0.3           |             |            |              | 0.1                      | -           | 8.8         | 2,442.0     | 9.2     |
| Misc. species                      | 19.0          | 3.6         | 6.0        | 0.2          | 1.1                      | 0.8         | 1.0         |             | 31.7    |
| wilde. Species                     | 13.0          | 5.0         | 0.0        | 0.2          | 1.1                      | 0.0         | 1.0         |             | 31.1    |

<sup>&</sup>lt;sup>a</sup> Sablefish catch data obtained from fishing logs and port validation logs and may differ from Statistics Unit figures. Does not include 55 t caught in special permit fisheries to offshore seamounts.

<sup>&</sup>lt;sup>b</sup> Misc. gears include groundfish catches by salmon gillnet, salmon seine, prawn trap and beach seine.

Table 46. 1993 British Columbia trap landings<sup>a</sup> (t) of groundfish - International area 3D, northwest coast of Vancouver Island.

|           | Jan         | Feb         | Mar         | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct   | Nov   | Dec | TOTAL |
|-----------|-------------|-------------|-------------|------|------|------|------|------|------|-------|-------|-----|-------|
| Sablefish | Does not in | clude exten | es feom spi | 30.0 | 68.8 | 52.1 | 29.8 | 21.0 | 39.7 | 134.8 | 152.1 | -   | 528.3 |
| TOTAL     | 0.0         | 0.0         | 0.0         | 30.0 | 68.8 | 52.1 | 29.8 | 21.0 | 39.7 | 134.8 | 152.1 | 0.0 | 528.3 |

Table 47. 1993 British Columbia trap landings<sup>a</sup> (t) of groundfish - International area 5A, south Queen Charlotte Sound.

| Table of T | Jan | Feb | Mar | Apr   | May  | Jun   | Jul  | Aug  | Sep  | Oct  | Nov  | Dec | TOTAL |
|------------|-----|-----|-----|-------|------|-------|------|------|------|------|------|-----|-------|
| Sablefish  |     |     | -   | 107.3 | 65.4 | 139.9 | 94.6 | 50.6 | 49.4 | 39.7 | 31.8 |     | 578.7 |
| TOTAL      | 0.0 | 0.0 | 0.0 | 107.3 | 65.4 | 139.9 | 94.6 | 50.6 | 49.4 | 39.7 | 31.8 | 0.0 | 578.7 |

Table 48. 1993 British Columbia trap landings<sup>a</sup> (t) of groundfish - International area 5B, north Queen Charlotte Sound.

| 740W 50 H | Jan | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep | Oct   | Nov | Dec | TOTAL |
|-----------|-----|------|------|------|------|------|------|------|-----|-------|-----|-----|-------|
| Sablefish | -   | 33.7 | 72.1 | 48.9 | 52.0 | 74.7 | 74.3 | 80.9 | -   | 162.8 | -   | -   | 599.4 |
| TOTAL     | 0.0 | 33.7 | 72.1 | 48.9 | 52.0 | 74.7 | 74.3 | 80.9 | 0.0 | 162.8 | 0.0 | 0.0 | 599.4 |

<sup>&</sup>lt;sup>a</sup> Does not include catches from special permit trips to seamounts.

- 82

Table 49. 1993 British Columbia trap landings<sup>a</sup> (t) of groundfish - International area 5C, south Hecate Strait.

|           | Jan         | Feb         | Mar        | Apr          | May  | Jun     | Jul | Aug | Sep | Oct | Nov | Dec | TOTAL |
|-----------|-------------|-------------|------------|--------------|------|---------|-----|-----|-----|-----|-----|-----|-------|
| Sablefish | Does not in | olude catch | es tr.w eb | eclal-permit | 14.8 | mounts. | -   | -   | -   | -   | -   |     | 14.8  |
| TOTAL     | 0.0         | 0.0         | tr.        | 0.0          | 14.8 | 0.0     | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 14.8  |

Table 50. 1993 British Columbia trap landings<sup>a</sup> (t) of groundfish - International area 5D, north Hecate Strait.

| Table 48, 19 | Jan | Feb | Mar | Apr | May  | Jun | Jul | Aug | Sep | Oct | Nov | Dec | TOTAL |
|--------------|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-------|
| Sablefish    | -   | -   | -   | 1.3 | 42.6 | -   | -   | -   | 1.4 | -   | 4   | -   | 45.3  |
| TOTAL        | 0.0 | 0.0 | 0.0 | 1.3 | 42.6 | 0.0 | 0.0 | 0.0 | 1.4 | 0.0 | 0.0 | 0.0 | 45.3  |

Table 51. 1993 British Columbia trap landings<sup>a</sup> (t) of groundfish - International area 5E, west coast Queen Charlotte Islands.

| Table 47, 15 | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul  | Aug | Sep   | Oct   | Nov   | Dec  | TOTAL   |
|--------------|-------|-------|-------|-------|-------|-------|------|-----|-------|-------|-------|------|---------|
| Sablefish    | 276.9 | 377.4 | 339.5 | 252.1 | 227.9 | 129.3 | 62.0 | -   | 132.7 | 340.1 | 209.7 | 28.7 | 2,376.3 |
| TOTAL        | 276.9 | 377.4 | 339.5 | 252.1 | 227.9 | 129.3 | 62.0 | 0.0 | 132.7 | 340.1 | 209.7 | 28.7 | 2,376.3 |

<sup>&</sup>lt;sup>a</sup> Does not include catches from special permit trips to seamounts.

Table 52. 1993 British Columbia trap landings<sup>a</sup> (t) of groundfish - coastwide total.

|           | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec  | TOTAL   |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|---------|
| Sablefish | 276.9 | 411.1 | 411.6 | 439.6 | 471.5 | 396.0 | 260.7 | 152.5 | 223.2 | 677.4 | 393.6 | 28.7 | 4,142.8 |
| TOTAL     | 276.9 | 411.1 | 411.6 | 439.6 | 471.5 | 396.0 | 260.7 | 152.5 | 223.2 | 677.4 | 393.6 | 28.7 | 4,142.8 |

Table 53. 1993 British Columbia trap landings<sup>a</sup> (t) of groundfish - offshore seamounts<sup>b</sup>.

|             | Jan | Feb | Mar | Apr | May | Jun  | Jul  | Aug  | Sep   | Oct  | Nov | Dec  | TOTAL |
|-------------|-----|-----|-----|-----|-----|------|------|------|-------|------|-----|------|-------|
| Sablefish   | -   |     | -   | 7.9 | 2.1 | 14.3 | 12 8 | 27.6 | 10 01 | 2.59 | 07. | h    | 51.9  |
| Rougheye rf | -   | -   | •   | 0.2 | -   | 1.8  | 計量   | 1.5  | -76 8 | . 66 | 8 3 | 81 8 | 3.5   |
| TOTAL       | 0.0 | 0.0 | 0.0 | 8.1 | 2.1 | 16.1 | 0.0  | 29.1 | 0.0   | 0.0  | 0.0 | 0.0  | 55.4  |

<sup>&</sup>lt;sup>a</sup> Does not include catches from special permit trips to seamounts.

<sup>&</sup>lt;sup>b</sup> Special permit trips to seamounts. Landings are not part of the coastwide quota.

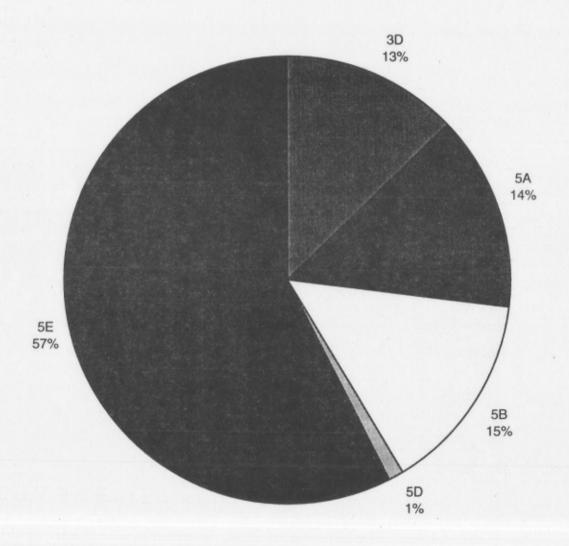
Table 54. Total landings (t), monitored landings<sup>a</sup> (t), and monitored effort for the British Columbia trap fleet in 1993.

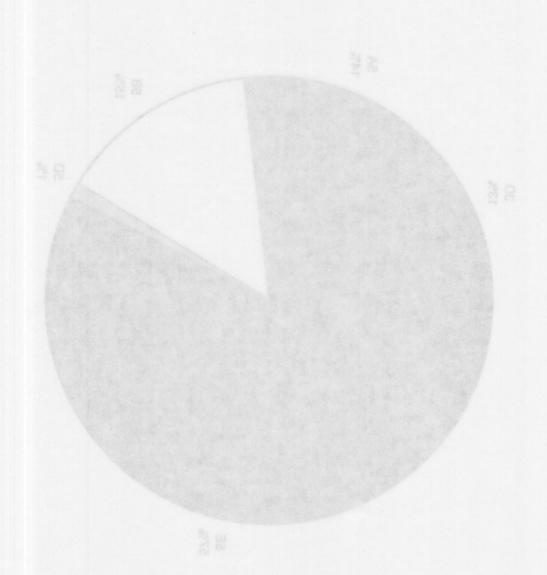
| Total<br>dings (t) | Monitored landings (t) | Monitored effort (traps) | Monitored<br>CPUE (t/trap) |
|--------------------|------------------------|--------------------------|----------------------------|
| 528.3              | 337.5                  | 18,845                   | 0.018                      |
| 578.7              | 480.6                  | 18,982                   | 0.025                      |
| 599.4              | 437.4                  | 16,688                   | 0.026                      |
| 14.8               | tr.                    | 120                      | 0.000                      |
| 45.3               | 2.6                    | 308                      | 0.008                      |
| 2,376.2            | 2,083.5                | 99745                    | 0.02                       |
| 55.4               | 31.2                   | 5343                     | 0.006                      |
| 4,198.1            | 3,372.8                | 160,031                  | 0.02                       |
|                    | 4,198.1                | 4,198.1 3,372.8          | 4,198.1 3,372.8 160,031    |

<sup>&</sup>lt;sup>a</sup> Landings accompanied by mandatory logbook.

<sup>&</sup>lt;sup>b</sup> Special permit trips to seamounts. Landings are not part of the coastwide quota.

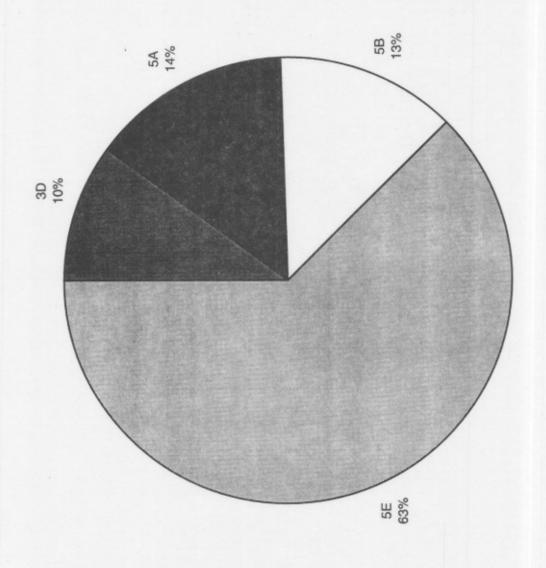
# Total trap catch (t) by major area in 1993 (excluding seamounts)

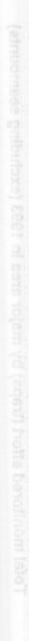




Total trap catch (1) by major area in 1993 (excluding seamounts)

Total monitored effort (traps) by major area in 1993 (excluding seamounts)





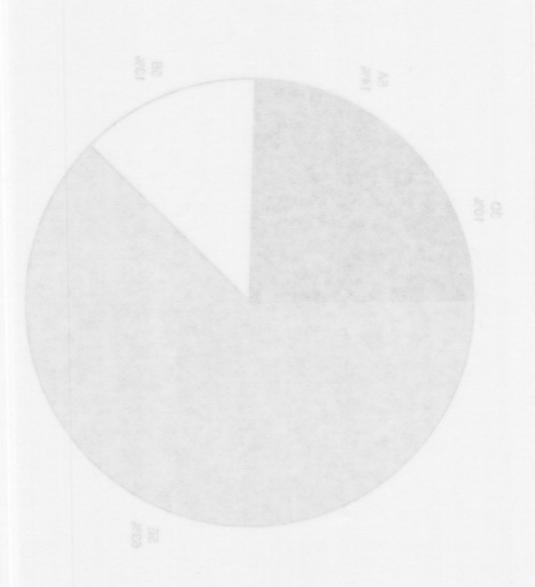


Table 55. British Columbia trap landings<sup>a</sup> (t) by species and minor area in 1993.

|           |                              |       | N     | linor area |       |       |     |            |
|-----------|------------------------------|-------|-------|------------|-------|-------|-----|------------|
| Species   | 24                           | 25    | 26    | 27         | 11    | 8     | 2BE | 6          |
| Sablefish | 16.4                         | 122.4 | 126.3 | 263.3      | 578.8 | 599.3 | tr. | 14.8       |
| Total     | 16.4                         | 122.4 | 126.3 | 263.3      | 578.8 | 599.3 | tr. | 14.8       |
| Discards  | tamorings or<br>he fivoriors | 15.6  | 1.3   | 3.8        | 3.6   | 8.3   | tr. | nainy r-ta |

| usilo,    | sed by six I | N N  | linor area | 01110161 | C,0=10 Ist | aleunav i |
|-----------|--------------|------|------------|----------|------------|-----------|
| Species   | 1E           | 4    | 1W         | 2AW      | 2BW        | Total     |
| Sablefish | 2.6          | 42.6 | 773.1      | 1254.8   | 348.3      | 4142.7    |
| Total     | 2.6          | 42.6 | 773.1      | 1254.8   | 348.3      | 4142.7    |
| Discards  |              | -    | 3.0        | 13.5     | 4.1        | 53.2      |

<sup>&</sup>lt;sup>a</sup> Does not include catches from special permit trips to seamounts.

### JOINT-VENTURE/FOREIGN FISHERIES

Since 1978, Canadian trawlers have participated in joint-venture fisheries. Canadian catcher vessels deliver Pacific hake and incidental species to foreign processing vessels in cooperative fishing arrangements. These fisheries take place off the southwest coast of Vancouver Island (Area 3C). These data are separated from the domestic landings because the joint-venture catches (converted from processed weight) are reported by the foreign processing vessels and cannot be verified by weight tallies. These data were collated and tallied by the Groundfish Management Unit of the Operations Branch in Vancouver.

In 1993, sixty-two Canadian catcher vessels delivered Pacific hake and incidental species to eight processing vessels. A total of 46,373 t of Pacific hake was processed by six Polish vessels and two Chinese vessels.

There were no national or supplemental fisheries for Pacific hake off the southwest coast of Vancouver Island in 1993.

The joint-venture catches of groundfish for 1993 are presented in Table 56.

Table 56. Joint-venture catches<sup>a</sup> (t) of groundfish from International area 3C -- southwest coast of Vancouver Island in 1993.

| Nation and species | Quota (t)  | Catch (t)          |  |
|--------------------|------------|--------------------|--|
| Poland             |            |                    |  |
| Pacific hake       | 38,500     | 37,375             |  |
| Pollock            | incidental | 464                |  |
| Rockfish           | incidental | 2                  |  |
| Other species      | incidental | 707                |  |
| China              |            |                    |  |
| Pacific hake       | 9,000      | 8,998              |  |
| Pollock            | incidental | 88                 |  |
| Rockfish           | incidental | A. 5.71 SC, SD, SE |  |
| Other species      | incidental | 145                |  |
|                    |            |                    |  |
| Total              |            |                    |  |
| Pacific hake       | 47,500     | 46,373             |  |
| Pollock            | incidental | 552                |  |
| Rockfish           | incidental | 2 (2000)           |  |
| Other species      | incidental | 852                |  |

<sup>&</sup>lt;sup>a</sup> Catches (converted from processed weight) ate reported by foreign processing vessels and cannot be verified by weight tallies.

# CATCHES BY NPAFC AREA

This report is also produced to satisfy requirements of committees of the North Pacific Anadromous Fish Commission (NPAFC), formerly known as the International North Pacific Fisheries Commission (INPFC) (Canada, Japan, and United States). To complement the previous tables, groundfish landings in metric tonnes (t) are presented in Tables 57-59 for trawl and other gears according to NPAFC areas. The relationship between these NPAFC areas and the major areas used in the first portion of this report is as follows:

| INPFC     | Major area L                              | atitude           | alce  |
|-----------|---|-------------------|-------|
| Charlotte | 5A, 5B, 5C, 5D, 5E <sup>5</sup>           | 50°30'N - 54°30'N | anina |
| Vancouver | 3B, 3C <sup>6</sup> , 3D, 4B <sup>7</sup> | 47°30'N - 50°30'N |       |

<sup>&</sup>lt;sup>5</sup> Northernmost 10 miles actually in Southeastern

<sup>&</sup>lt;sup>6</sup> Southernmost 10 miles actually in Columbia

<sup>&</sup>lt;sup>7</sup> Inside waters (Strait of Georgia)

Table 57. British Columbia landings<sup>a</sup> (t) of groundfish taken by all types of gear in 1993, by NPAFC area.

|                     | NPAF      |           |          |           |
|---------------------|-----------|-----------|----------|-----------|
| Species             | Vancouver | Charlotte | Total    |           |
| English sole        | 209.9     | 1,559.9   | 1,769.8  |           |
| Rock sole           | 134.3     | 2,879.9   | 3,014.2  |           |
| Petrale sole        | 358.1     | 220.6     | 578.7    |           |
| Dover sole          | 2,113.0   | 1,844.4   | 3,957.4  |           |
| Rex sole *          | 51.7      | 188.5     | 240.2    |           |
| Starry flounder     | 24.1      | 80.6      | 104.7    |           |
| Turbot              | 2,194.0   | 1,825.9   | 4,019.9  |           |
| Other flatfish      | 18.4      | 233.4     | 251.8    |           |
| Pacific cod         | 2,682.6   | 5,413.6   | 8,096.2  |           |
| Lingcod             | 2,784.5   | 2,451.3   | 5,235.8  |           |
| Sablefish           | 1,147.9   | 3,960.5   | 5,108.4  | e defisir |
| Pollock             | 3,223.8   | 4,750.0   | 7,973.8  |           |
| Hake                | 15,958.5  | 0.6       | 15,959.1 |           |
| Pacific ocean perch | 1,632.9   | 2,932.4   | 4,565.3  |           |
| Other rockfish      | 8,024.4   | 12,378.4  | 20,402.8 |           |
| Misc. species       | 66.8      | 123.3     | 190.1    |           |
| Dogfish             | 621.7     | 99.8      | 721.5    |           |
| Animal food         | 12.0      | 136.7     | 148.7    |           |
| Reduction           | 627.8     | 142.4     | 770.2    |           |
| Total               | 41,886.4  | 41,222.2  | 83,108.6 |           |

<sup>&</sup>lt;sup>a</sup> Does not include catches from joint-venture fishery, see Table 56.

in 1933, by NPAFC area.

Table 58. British Columbia domestic trawl landings<sup>a</sup> (t) of groundfish and a land a l in 1992, by NPAFC area.

|                     | NPAF      | C area    |          |           |
|---------------------|-----------|-----------|----------|-----------|
| Species             | Vancouver | Charlotte | Total    |           |
| English sole        | 209.9     | 1,559.9   | 1,769.8  |           |
| Rock sole           | 134.3     | 2,879.9   | 3,014.2  |           |
| Petrale sole        | 358.1     | 220.6     | 578.7    |           |
| Dover sole          | 2,113.0   | 1,844.4   | 3,957.4  |           |
| Rex sole            | 51.7      | 188.5     | 240.2    |           |
| Starry flounder     | 24.1      | 80.6      | 104.7    |           |
| Turbot              | 2,194.0   | 1,825.9   | 4,019.9  |           |
| Other flatfish      | 18.1      | 224.5     | 242.6    |           |
| Pacific cod         | 2,681.4   | 5,411.0   | 8,092.4  |           |
| Lingcod             | 1,874.0   | 1,884.3   | 3,758.3  |           |
| Sablefish           | 351.6     | 189.6     | 541.2    |           |
| Pollock             | 3,223.8   | 4,749.7   | 7,973.5  |           |
| Hake                | 15,958.5  | 0.6       | 15,959.1 |           |
| Pacific ocean perch | 1,631.1   | 2,930.5   | 4,561.6  |           |
| Other rockfish      | 7,152.9   | 11,266.0  | 18,418.9 |           |
| Misc. species       | 38.2      | 120.2     | 158.4    |           |
| Dogfish             | 56.0      | 0.0       | 56.0     |           |
| Animal food         | 12.0      | 136.7     | 148.7    |           |
| Reduction           | 627.8     | 142.4     | 770.2    | Reduction |
| Total               | 38,710.5  | 35,655.3  | 74,365.8 |           |

<sup>&</sup>lt;sup>a</sup> Does not include catches from joint-venture fishery, see Table 56.

Table 59. British Columbia landings (t) of groundfish caught by gear other than trawl in 1993, by NPAFC area.

|                          | NPA                 |                 |              |  |
|--------------------------|---------------------|-----------------|--------------|--|
| Gear and species         | Vancouver           | Charlotte       | Total        |  |
| Handline and troll       | ns to sustains quit | neer uni ur sun | daileidea on |  |
| Dogfish                  | 30.3                | 0.0             | 30.3         |  |
| Lingcod                  | 544.4               | 130.6           | 675.0        |  |
| Pacific cod              | 0.1                 | 0.1             | 0.2          |  |
| Pacific ocean perch      | 0.0                 | 0.0             | 0.0          |  |
| Other rockfish           | 311.4               | 107.8           | 419.2        |  |
| Sablefish                | 0.1                 | 0.0             | 0.1          |  |
| Sole                     | 0.3                 | 0.0             | 0.3          |  |
| Misc. species            | 11.8                | 0.9             | 12.7         |  |
| Incidental to shrimp to  | rawl                |                 |              |  |
| Other rockfish           | benotino            | Monitored       | IstoT        |  |
| Other rocklish           | 1.6 (agan) noise    | (1)             | (1) agnibasi |  |
| Longline                 |                     |                 |              |  |
| 0.010                    | 505.4               |                 |              |  |
| Dogfish                  | 535.4               | 99.8            | 635.2        |  |
| Lingcod                  | 366.0               | 428.1           | 794.1        |  |
| Pacific cod              |                     | 2.0             | 0.0          |  |
| Pacific ocean perch      | 084.65 1.8          |                 | 3.7          |  |
| Other rockfish           | 558.5               | 1,003.7         |              |  |
| Pollock                  | 0.0<br>267.9        | 0.3<br>156.4    | 0.3          |  |
| Sablefish                |                     | 100.4           | 727.0        |  |
| Sole                     | 44.0                |                 | 8.9          |  |
| Misc. species            | 01.0                | 2.2             | 13.2         |  |
| Trap                     |                     |                 |              |  |
| 0.021                    |                     |                 |              |  |
| Sablefish <sup>a</sup>   | 528.3               | 3,614.5         | 4,142.8      |  |
| Misc. gears <sup>b</sup> |                     |                 |              |  |
| ingcod                   | 0.1                 | led by mandate  | 8.4          |  |
| Pacific cod              |                     | 8.3             |              |  |
| Other rockfish           | 0.0                 | 0.0             | 0.0          |  |
| Misc. species            | 0.0<br>5.8          | 0.9             | 0.9<br>5.8   |  |
|                          | 0.0                 | 0.0             | 5.0          |  |
| Total                    |                     |                 |              |  |
| Dogfish                  | 565.7               | 99.8            | 665.5        |  |
| ingcod                   | 910.5               | 567.0           | 1,477.5      |  |
| Pacific cod              | 1.2                 | 2.6             | 3.8          |  |
| Pacific ocean perch      | 1.8                 | 1.9             | 3.7          |  |
| Other rockfish           | 871.5               | 1,112.4         | 1,983.9      |  |
| Pollock                  | 0.0                 | 0.3             | 0.3          |  |
| Sablefish                | 796.3               | 3,770.9         | 4,567.2      |  |
| Sole<br>Misc. species    | 0.3<br>28.6         | 8.9<br>3.1      | 9.2          |  |
|                          |                     |                 | 31.7         |  |
| Total                    | 3,175.9             | 5,566.9         | 8,742.8      |  |

## **ERRATA**

I. Additions have been made to the 1990 trap catches of sablefish. All tables containing sablefish catches by trap gear have been modified. The information from Table 54, total catch, monitored catch and monitored effort by major area are given here. Please contact the author if more detailed information is required.

Table 54. Total landings (t), monitored landings<sup>a</sup> (t), and monitored effort for the British Columbia trap fleet in 1990.

| Major area | otal<br>ings (t) | onitored<br>dings (t) | Monitored effort (traps) | Monitored<br>CPUE (t/trap) |
|------------|------------------|-----------------------|--------------------------|----------------------------|
| 4B         | 1.2              | 1.2                   | 115                      | 0.010                      |
| 3C         | 143.3            | 143.3                 | 10,772                   | 0.013                      |
| 3D         | 756.1            | 730.5                 | 46,468                   | 0.016                      |
| 5A         | 471.6            | 471.6                 | 23,480                   | 0.020                      |
| 5B         | 149.1            | 149.1                 | 8,065                    | 0.018                      |
| 5C         | 47.4             | 47.4                  | 1,320                    | 0.036                      |
| 5D         | 11.2             | 11.2                  | 798                      | 0.014                      |
| 5E         | 1,702.3          | 1,683.1               | 65540                    | 0.026                      |
| Total      | 3,282.2          | 3,237.4               | 156,558                  | 0.021                      |

<sup>&</sup>lt;sup>a</sup> Landings accompanied by mandatory logbook.

### **ACKNOWLEDGMENTS**

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