

INTERNATIONAL  
WHALING STATISTICS

LXIX

EDITED BY  
THE COMMITTEE FOR WHALING STATISTICS



OSLO 1972

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## CONTENTS

|   |        |
|---|--------|
| Preface .....   | Page 5 |
| Introduction .....  | ,, 7   |
| Supplementary tables to the introduction .....  | ,, 11  |
| Production of by-products .....   | ,, 22  |
| Catch of small whales .....   | ,, 23  |
|   |        |
| Table No. 1.—Whaling in the Antarctic season 1970/71 and outside the<br>Antarctic in 1971 ..... | ,, 29  |
| Table No. 2.—Whaling of Japan in 1970/71 and 1971 .....   | ,, 30  |
| Table No. 3.—Whaling of U.S.S.R. in 1970/71 and 1971 .....                                      | ,, 30  |
| Table No. 4.—Whaling results for the various countries in 1970/71 and 1971 ...                  | ,, 30  |
| Table No. 5.—Average size of whales caught 1971 .....   | ,, 31  |
| Table No. 6.—Whales caught in 1971, by species, sex and size and by whaling<br>grounds .....    | ,, 34  |
| Natal .....   | ,, 34  |
| Norway .....  | ,, 35  |
| Brazil .....  | ,, 36  |
| Iceland .....   | ,, 37  |
| Newfoundland .....  | ,, 38  |
| Nova Scotia .....   | ,, 38  |
| California .....  | ,, 39  |
| North Pacific Ocean and Bering Sea, pelagic, Japan .....  | ,, 40  |
| —, —                      —, —                      ,,   , U.S.S.R. ....                        | ,, 41  |
| Japan, coastal .....  | ,, 43  |
| Australia .....   | ,, 44  |
| South Atlantic Ocean, pelagic .....   | ,, 44  |
| Indian Ocean, pelagic .....   | ,, 45  |
| South Pacific Ocean, pelagic .....  | ,, 45  |
| Table No. 7.—Average production of oil per „blue-whale equivalent” in 1971                      | ,, 46  |
| Table No. 8.—Average production of oil per sperm-whale in 1971 .....                            | ,, 47  |





## PREFACE

The present publication, International Whaling Statistics No. LXIX, comprises data from whaling in the Antarctic during the season 1970/71 and outside the Antarctic in the calendar year 1971.

Statistical data have not been received from Spain, from one catcher with freezing- and oil plant, and from one floating factory of 1957 gross tons with two catchers.

Further statistical data relating to sex and size of whales killed have not been received from the Azores, Madeira, Peru and Chile.

Oslo, December 1972.

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*Einar Vangstein.*



## INTRODUCTION

This publication comprises the world aggregate whaling results for 1971, i.e. the catch in the Antarctic during the season 1970/71 and the catch outside the Antarctic during the calendar year 1971. Details respecting the Antarctic catch were given in International Whaling Statistics No. LXVIII, while the present volume gives details of the operations on grounds outside the Antarctic in 1971.

A former catcher, named "Run", belonging to Run Fishing Co., has been converted to a combined catcher/factory-ship which flies the flag of the Bahamas. This vessel has been operating outside the coast of Africa since mid 1967. "Sao Nicolau" of 1,957 gross tons (owners Ascension Inc., Monrovia) and her two catchers have operated off the coast of South Africa since 1970. No official information about the catch results of these two expeditions has been obtainable.

According to unofficial information the catch of "Run" from and including 1968 and the production of meat and liver have been as follows:

|                | Sei and<br>Brydes'<br>whales | Sperm<br>whales | Minke<br>whales | Baleen<br>whale meat<br>L.tons | Sperm<br>whale meat<br>L.tons | Liver<br>L.tons |
|----------------|------------------------------|-----------------|-----------------|--------------------------------|-------------------------------|-----------------|
| 1968 . . . . . | 366                          | 46              | 3               | 1,656                          | 83                            | 62              |
| 1969 . . . . . | 318                          | 128             | 3               | 1,704                          | 271                           | 77              |
| 1970 . . . . . | 455                          | 173             | 1               | 3,325                          | 337                           | 81              |
| 1971 . . . . . | 378                          | 224             | —               | 566*)                          | 178*)                         | 12*)            |

\*) up to 3/5-1971.

Both "Run" and "Sao Nicolau" suspended operation in 1972 because of economic difficulties. "Run" has been sold to a new company – Sierra Whaling Co., and whaling will probably be resumed in 1973.

According to Spanish press reports the catch from Spain in 1971 was 89 blue, fin and humpback whales, and 275 sperm whales.

Three Japanese and three U.S.S.R. expeditions operated in the Antarctic in the season 1970/71. Altogether 2,890 fin whales, 6,153 sei whales (2,470.5 blue whale units) and 3,055 sperm whales were caught.

On the voyage of the Antarctic expeditions in 1971 (from Antarctic after the 1970/71 season and to Antarctic before the 1971/72 season), the



following catches of sperm whales were made: South Atlantic Ocean 1,225; Indian Ocean 1,681; South Pacific Ocean 635. These make a total of 3,541 sperm whales as compared to 1,862 in 1969 and 3,123 in 1970.

The most important whaling grounds outside the Antarctic are those in the North Pacific. In 1971 two Soviet-Russian and three Japanese pelagic expeditions carried on whaling in this area in addition to shore stations on the coast of Japan and California.

In the 1969 and 1970 seasons the North Pacific whaling countries voluntarily adopted measures to conserve whale stocks in that area. In the 1970 season the catch limits for the pelagic expeditions were 1,332 fin, 4,924 sei-Bryde's, and 11,273 sperm whales. The catch amounted to 930 fin, 4,083 sei-Bryde's and 11,285 sperm whales. The catches at the land stations of Japan and U.S.A. in 1971 should not exceed the levels established for the 1969 season.

At the meeting of the whaling commission in 1970 it was decided to introduce catch limits into the Schedule for North Pacific. The catch was limited to 1,308 fin whales and 4,710 sei and Bryde's whales for the 1971 season. The catch amounted to 802 and 3,913 respectively.

There were technical difficulties in the way of prescribing a catch limit for sperm whales in the Schedule for the 1971 season. The commissioners representing the North Pacific whaling countries agreed, however, to limit the North Pacific catch of this species to 13,551 whales. The catch amounted to 10,703 whales. The catch of fin, sei and Bryde's whales could be exceeded by not more than 10 % provided that an appropriate reduction was made in the catch of other species.

Japan, U.S.A. and U.S.S.R. agreed upon a distribution of the total quota into national quotas. The quotas and the catch were as follows:

|                          | Japan |       | U.S.A. |       | U.S.S.R. |       |
|--------------------------|-------|-------|--------|-------|----------|-------|
|                          | Quota | Catch | Quota  | Catch | Quota    | Catch |
| Fin whales . . . . .     | 568   | 608   | 40     | 4     | 700      | 190   |
| Sei/Bryde's whales . . . | 3,132 | 2,977 | 51     | 2     | 1,527    | 934   |
| Sperm whales . . . . .   | 5,760 | 5,131 | 75     | 47    | 7,716    | 5,525 |

In the 1972 season the quota for North Pacific Ocean and dependent waters excluding the catch in East China Sea was set at 1,046 fin, 3,768 sei and Bryde's, and 10,841 sperm whales.

At the last meeting of the International Whaling Commission it was agreed to request Denmark, U.S.A. and U.S.S.R. to obtain information on the aboriginal kill of bowhead, gray and other whales and report this to the Bureau of International Whaling Statistics. The US Department of State reports that information on the aboriginal catch of bowhead whales is limited by climatic conditions and by the nature of the whale

hunting operations, which extend over a broad area and in which at least three villages take part with several whaling camps each. However, reports from the State of Alaska indicate that the annual catch varies with ice and sea conditions from 15 to 30 animals, with the average over the past few years being 20. Ministry of Fisheries of the USSR reports that the aboriginal catch of gray whales in Arctic zone of Bering and Chukotsk Seas was 154 whales in 1969, 146 whales in 1970 and 150 whales in 1971. The catch in 1971 should have been included in tables 1—4, but the tables were already printed when the above information was received.

The Chilean catch of whales from October 1968 to May 1970 was 103 sei whales according to information received in 1971 (Table 1, I.W.S. No. LXVII). A later report gave the whale catch in 1970 as 1 blue, 3 fin, 1 sei, 246 sperm, and 2 others (Table u). No data have been received on the yearly production 1968—1971. Only table u has been corrected to take account of the 1970 reports. A complete updating will be made later when it is anticipated that complete Chilean catch and production records are available.

Tables Z<sup>2-9</sup> give information on the catch of small whales on the various grounds both outside and in the Antarctic.

At the meeting of the International Whaling Commission in June, 1972, it was reported that in the USA tuna fishery about 250,000 porpoises and dolphins are incidentally killed every year.

The U.S. Department of State reports that it has a limited amount of data on the incidental kill of porpoises and dolphins in the tuna fishery. These data are only approximate and are extrapolations from counts on a small number of observer trips within the regulatory area of the Inter-American Tropical Tuna Commission. The estimates of total mortality of the three principal species involved were calculated from percentages as observed in the samples, and are:

|  | 1970    | 1971    |
|--|---------|---------|
| Spotted dolphin ( <i>Stenella graffmani</i> ) . . . . .    | 235,000 | 153,000 |
| Spinner dolphin ( <i>Stenella longirostris</i> ) . . . . . | 71,000  | 46,000  |
| Common dolphin ( <i>Delphinus delphis</i> ) . . . . .      | 9,000   | 6,000   |
|  | <hr/>   |         |
| Total . . . . .  | 315,000 | 205,000 |

Range 225,000–400,000

165,000–240,000

It is likely that small whales are caught by other nations and on other grounds than shown in tables Z<sup>2-9</sup>. It is hoped that more complete tables on the catch of small whales may be published next year.



**Annex.**  
**Supplementary Tables to the Introduction.**

**Table a.—Whaling matériel in operation.**

| Years. <sup>1)</sup> | All whaling grounds. |                     |           | Antarctic.      |                     |           | Others.         |                     |           |
|----------------------|----------------------|---------------------|-----------|-----------------|---------------------|-----------|-----------------|---------------------|-----------|
|                      | Shore stations.      | Floating factories. | Catchers. | Shore stations. | Floating factories. | Catchers. | Shore stations. | Floating factories. | Catchers. |
| 1968-69              | 21                   | 12                  | 191       | —               | 6                   | 84        | 21              | 6                   | 107       |
| 1969-70              | 21                   | 11                  | 190       | —               | 6                   | 85        | 21              | 5                   | 105       |
| 1970-71              | 17                   | 11                  | 175       | —               | 6                   | 86        | 17              | 5                   | 89        |

<sup>1)</sup> 1968/69 = Antarctic season 1968/69 and outside the Antarctic in the calendar year 1969 a. s. o.

**Table b.—Whales killed, by species.**

| Years.       | Blue. | Fin.  | Hump-back.       | Sei.                 | Sperm. | Others. | Total of whales. |
|--------------|-------|-------|------------------|----------------------|--------|---------|------------------|
| 1968-69..... | —     | 5,320 | 5                | 12,042               | 24,217 | 288     | 41,872           |
| 1969-70..... | 8     | 5,057 | 15               | <sup>1)</sup> 11,195 | 25,830 | 149     | 42,254           |
| 1970-71..... | 1     | 4,459 | <sup>3)</sup> 24 | <sup>2)</sup> 10,997 | 22,407 | 2       | 37,890           |

<sup>1)</sup> Including 144 Bryde-whales. <sup>2)</sup> Including 909 Bryde-whales. <sup>3)</sup> 20 taken under special permit.

**Table c.—Whales killed in the various main areas.**

| Years.       | All areas.                                    |           | Antarctic.            |           | Africa.               |           | North Atlantic and Arctic. <sup>1)</sup> |           | Pacific, north. <sup>2)</sup> |           | Japan.                |           |
|--------------|---|-----------|-----------------------|-----------|-----------------------|-----------|--|-----------|-------------------------------|-----------|-----------------------|-----------|
|              | No. of whales killed.                         | Per cent. | No. of whales killed. | Per cent. | No. of whales killed. | Per cent. | No. of whales killed.                    | Per cent. | No. of whales killed.         | Per cent. | No. of whales killed. | Per cent. |
| 1968-69..... | 41,872  | 100       | 11,478                | 27.4      | 2,078                 | 5.0       | 1,249                                    | 3.0       | 183                           | 0.4       | 4,299                 | 10.3      |
| 1969-70..... | 42,254  | 100       | 11,949                | 28.3      | 1,880                 | 4.4       | 1,204                                    | 2.8       | 73                            | 0.2       | 4,118                 | 9.7       |
| 1970-71..... | 37,890  | 100       | 12,098                | 31.9      | 2,143                 | 5.7       | 1,368                                    | 3.6       | 53                            | 0.1       | 3,842                 | 10.1      |
|              | North Pacific Ocean and Bering Sea (pelagic). |           |                       |           | Chile.                | Peru.     | Australia.                               | Others.   |                               |           |                       |           |
|              | Japan   |           | U.S.S.R.              |           |                       |           |  |           |                               |           |                       |           |
| 1968-69..... | 7,167   | 17.1      | 9,895                 | 23.6      | —                     | —         | 2,305                                    | 5.5       | 679                           | 1.6       | 2,539                 | 6.1       |
| 1969-70..... | 6,453   | 15.3      | 9,845                 | 23.3      | 103                   | 0.2       | 1,935                                    | 4.6       | 799                           | 1.9       | 3,895                 | 9.3       |
| 1970-71..... | 4,874   | 12.9      | 6,649                 | 17.5      | 253                   | 0.7       | 1,773                                    | 4.7       | 860                           | 2.3       | 3,977                 | 10.5      |

<sup>1)</sup> Excluding Spain, Azores and Madeira. <sup>2)</sup> Excluding Japan and North Pacific Ocean and Bering Sea



Table d.—Oil production in the various main areas.

| Years.    | All areas.                                    |      |                         | Antarctic.        |      |                         | Africa.             |     |                         | North Atlantic and Arctic. <sup>1)</sup> |     |                         | Pacific North. <sup>2)</sup> |     |                         | Japan             |      |                         |
|-----------|---|------|-------------------------|-------------------|------|-------------------------|---------------------|-----|-------------------------|--|-----|-------------------------|------------------------------|-----|-------------------------|-------------------|------|-------------------------|
|           | Total oil output.                             | %    | Oil output per catcher. | Total oil output. | %    | Oil output per catcher. | Total oil output.   | %   | Oil output per catcher. | Total oil output.                        | %   | Oil output per catcher. | Total oil output.            | %   | Oil output per catcher. | Total oil output. | %    | Oil output per catcher. |
|           | Barrels.                                      |      | Barrels.                | Barrels.          |      | Barrels.                | Barrels.            |     | Barrels.                | Barrels.                                 |     | Barrels.                | Barrels.                     |     | Barrels.                | Barrels.          |      | Barrels.                |
| 1968-69.. | 1,217,340                                     | 100  |                         | 385,822           | 31.7 | 4,593                   | 50,657              | 4.1 | 7,237                   | 43,329                                   | 3.5 | 3,333                   | 4,533                        | 0.4 | 1,511                   | 87,124            | 7.2  | 6,223                   |
| 1969-70.. | 1,229,777                                     | 100  |                         | 393,291           | 32.0 | 4,626                   | 45,002              | 3.7 | 6,429                   | 38,252                                   | 3.1 | 3,188                   | 1,724                        | 0.1 | 575                     | 74,273            | 6.0  | 6,189                   |
| 1970-71.. | 1,119,279                                     | 100  |                         | 390,423           | 34.9 | 4,540                   | 46,959              | 4.2 | 7,826                   | 40,250                                   | 3.6 | 4,025                   | 1,115                        | 0.1 | 372                     | 73,532            | 6.6  | 6,128                   |
|           | North Pacific Ocean and Bering Sea (pelagic). |      |                         |                   |      |                         | Chile.              |     |                         | Peru.                                    |     |                         | Australia                    |     |                         | Others.           |      |                         |
|           | Japan   |      |                         | U.S.S.R.          |      |                         |                     |     |                         |  |     |                         |                              |     |                         |                   |      |                         |
| 1968-69.. | 174,900                                       | 14.4 | 6,478                   | 322,436           | 26.5 | 10,401                  | -                   | -   | -                       | 46,978                                   | 3.9 | 9,395                   | 27,045                       | 2.2 | 9,015                   | 74,516            | 6.1  | .                       |
| 1969-70.. | 181,159                                       | 14.7 | 6,709                   | 308,518           | 25.1 | 10,284                  | 1,290               | 0.1 | -                       | 40,245                                   | 3.3 | 10,061                  | 33,307                       | 2.7 | 11,102                  | 112,716           | 9.2  | .                       |
| 1970-71.. | 145,571                                       | 13.0 | 5,599                   | 231,746           | 20.7 | 8,277                   | <sup>3)</sup> 5,500 | 0.5 | -                       | <sup>3)</sup> 35,500                     | 3.2 | -                       | 34,894                       | 3.1 | 11,631                  | 113,789           | 10.1 | .                       |

<sup>1)</sup> Excluding Spain, Azores and Madeira. <sup>2)</sup> Excluding Japan, North Pacific Ocean and Bering Sea. <sup>3)</sup> Calculated.

**Table e.—Whaling results for the  
Number of whales killed.**

| Years.                     | All countries.       | Australia.        | Brazil.          | Canada. | Chile.        | Iceland. | Japan. |
|----------------------------|----------------------|-------------------|------------------|---------|---------------|----------|--------|
| <i>Absolute figures:</i>   |                      |                   |                  |         |               |          |        |
| 1968-69.....               | 41,872               | 679 <sup>2)</sup> | 137              | 695     | <sup>1)</sup> | 423      | 17,128 |
| 1969-70.....               | 42,254               | 799               | 102              | 712     | 103           | 377      | 17,047 |
| 1970-71.....               | <sup>5)</sup> 37,890 | 860               | <sup>3)</sup> 75 | 710     | 253           | 554      | 15,512 |
| <i>Percentage figures:</i> |                      |                   |                  |         |               |          |        |
|                            | %                    | %                 | %                | %       | %             | %        | %      |
| 1968-69.....               | 100.0                | 1.6               | 0.3              | 1.7     | —             | 1.0      | 40.9   |
| 1969-70.....               | 100.0                | 1.9               | 0.3              | 1.7     | 0.2           | 0.9      | 40.4   |
| 1070-71.....               | 100.0                | 2.2               | 0.2              | 1.9     | 0.7           | 1.5      | 40.9   |

<sup>1)</sup> No information. <sup>2)</sup> In addition 701 Minke-whales. <sup>3)</sup> In addition 900 Minke-whales. <sup>4)</sup> In addition 204.  
<sup>5)</sup> Incl. Greenland 5 whales.

**Table f.—Whaling results for the  
Oil production in barrels.<sup>1)</sup>**

| Years.                     | All countries. | Australia. | Brazil. | Canada. | Chile.              | Iceland. | Japan.  |
|----------------------------|----------------|------------|---------|---------|---------------------|----------|---------|
| <i>Absolute figures:</i>   |                |            |         |         |                     |          |         |
| 1968-69.....               | 1,217,340      | 27,045     | 5,046   | 20,376  | <sup>3)</sup>       | 16,518   | 432,633 |
| 1969-70.....               | 1,230,530      | 33,307     | 5,592   | 18,978  | 1,290               | 14,647   | 445,372 |
| 1970-71.....               | 1,119,279      | 34,894     | 5,687   | 19,130  | <sup>2)</sup> 5,500 | 16,863   | 414,390 |
| <i>Percentage figures:</i> |                |            |         |         |                     |          |         |
|                            | %              | %          | %       | %       | %                   | %        | %       |
| 1968-69.....               | 100.0          | 2.2        | 0.4     | 1.7     | —                   | 1.4      | 35.5    |
| 1969-70.....               | 100.0          | 2.7        | 0.4     | 1.5     | 0.1                 | 1.2      | 36.2    |
| 1970-71.....               | 100.0          | 3.1        | 0.5     | 1.7     | 0.5                 | 1.5      | 37.0    |

<sup>1)</sup> Barrel = 170 kg. (Barrel = abt.  $\frac{1}{4}$  long ton, 1 long ton = 1.016 kg.) <sup>2)</sup> Calculated. <sup>3)</sup> No information

## various countries. All areas.

## Number of whales killed.

| Years.                     | Norway. | Peru. | Portugal.         | Spain. | South Africa.       | United States of America. | U.S.S.R. |
|----------------------------|---------|-------|-------------------|--------|---------------------|---------------------------|----------|
| <i>Absolute figures:</i>   |         |       |                   |        |                     |                           |          |
| 1968-69.....               | 128     | 2,305 | 228               | 315    | 2,078               | 183                       | 17,573   |
| 1969-70.....               | 228     | 1,935 | 249               | 413    | 1,880               | 73                        | 18,336   |
| 1970-71.....               | 226     | 1,773 | 353 <sup>1)</sup> |        | <sup>4)</sup> 2,143 | 53                        | 15,373   |
| <i>Percentage figures:</i> |         |       |                   |        |                     |                           |          |
|                            | %       | %     | %                 | %      | %                   | %                         | %        |
| 1968-69.....               | 0.3     | 5.5   | 0.5               | 0.8    | 5.0                 | 0.4                       | 42.0     |
| 1969-70.....               | 0.5     | 4.6   | 0.6               | 0.9    | 4.4                 | 0.2                       | 43.4     |
| 1970-71.....               | 0.6     | 4.7   | 0.9               | -      | 5.7                 | 0.1                       | 40.6     |

Minke-whales.

## various countries. All areas.

Oil production in barrels.<sup>1)</sup>

| Years.                     | Norway. | Peru.                | Portugal.           | Spain. | South Africa. | United States of America. | U.S.S.R. |
|----------------------------|---------|----------------------|---------------------|--------|---------------|---------------------------|----------|
| <i>Absolute figures:</i>   |         |                      |                     |        |               |                           |          |
| 1968-69.....               | 6,435   | 46,978               | 5,364 <sup>2)</sup> | 8,740  | 50,657        | 4,533                     | 593,015  |
| 1969-70.....               | 6,835   | 40,245               | 6,293 <sup>2)</sup> | 11,300 | 45,002        | 1,724                     | 599,945  |
| 1970-71.....               | 7,048   | <sup>2)</sup> 35,500 | 8,149 <sup>3)</sup> |        | 46,959        | 1,115                     | 524,044  |
| <i>Percentage figures:</i> |         |                      |                     |        |               |                           |          |
|                            | %       | %                    | %                   | %      | %             | %                         | %        |
| 1968-69.....               | 0.5     | 3.9                  | 0.4                 | 0.7    | 4.2           | 0.4                       | 48.7     |
| 1969-70.....               | 0.6     | 3.3                  | 0.5                 | 0.9    | 3.7           | 0.1                       | 48.8     |
| 1970-71.....               | 0.6     | 3.2                  | 0.8                 | -      | 4.2           | 0.1                       | 46.8     |



Table g.—Sperm-oil production.

| Grounds                       | <sup>1)</sup> 1968/69 | 1969/70              | 1970/71              |
|-------------------------------|-----------------------|----------------------|----------------------|
|                               | Barrels               | Barrels              | Barrels              |
| Antarctic, pelagic .....      | 113,764               | 125,027              | 116,714              |
| Africa:—                      |                       |                      |                      |
| Natal .....                   | 42,200                | 42,319               | 42,624               |
| South Atlantic, pelagic ..... | <sup>3)</sup> 26,847  | <sup>3)</sup> 29,956 | <sup>3)</sup> 35,247 |
| Brazil .....                  | 4,166                 | 932                  | 862                  |
| North Atlantic and Arctic:—   |                       |                      |                      |
| Azores .....                  | 3,999                 | 5,432                | 6,984                |
| Madeira .....                 | 1,365                 | 861                  | 1,165                |
| Spain .....                   | <sup>2)</sup> 3,860   | <sup>2)</sup> 5,220  | <sup>4)</sup> —      |
| Norway .....                  | 5,820                 | 2,711                | 3,117                |
| Iceland .....                 | 5,378                 | 3,254                | 5,532                |
| Newfoundland .....            | 342                   | 94                   | —                    |
| Nova Scotia .....             | —                     | 1,153                | 1,853                |
| Pacific North:—               |                       |                      |                      |
| California .....              | 1,034                 | 1,520                | 918                  |
| Pelagic, Japan .....          | 100,882               | 123,582              | 89,388               |
| Pelagic, U S S R .....        | 290,487               | 288,567              | 216,882              |
| Japan, coastal .....          | 79,300                | 67,827               | 68,148               |
| Indian Ocean .....            | <sup>3)</sup> 28,519  | <sup>3)</sup> 40,496 | <sup>3)</sup> 46,143 |
| South Pacific Ocean .....     | —                     | <sup>3)</sup> 19,407 | <sup>3)</sup> 18,563 |
| Peru .....                    | 36,663                | 31,047               | <sup>2)</sup> 29,000 |
| Chile .....                   | —                     | —                    | <sup>2)</sup> 5,500  |
| Australia .....               | 27,045                | 33,307               | 34,894               |
|                               | 771,671               | 822,712              | 723,534              |
| Of which produced by:         |                       |                      |                      |
| Norway .....                  | 5,820                 | 4,619                | 5,908                |
| South Africa .....            | 42,200                | 42,319               | 42,624               |
| Japan .....                   | 188,860               | 221,402              | 186,589              |
| U S S R .....                 | 450,939               | 471,552              | 401,705              |
| Canada .....                  | 342                   | 1,247                | 1,853                |
| Portugal .....                | 5,364                 | 6,293                | 8,149                |
| Australia .....               | 27,045                | 33,307               | 34,894               |
| Spain .....                   | <sup>2)</sup> 3,860   | <sup>2)</sup> 5,220  | <sup>4)</sup> —      |
| Iceland .....                 | 5,378                 | 3,254                | 5,532                |
| Peru .....                    | 36,663                | 31,047               | <sup>2)</sup> 29,000 |
| Brazil .....                  | 4,166                 | 932                  | 862                  |
| Chile .....                   | —                     | —                    | <sup>2)</sup> 5,500  |
| U.S.A. ....                   | 1,034                 | 1,520                | 918                  |

<sup>1)</sup> 1968/69 = Antarctic season 1968/69 and outside the Antarctic in the calendar year 1969 a. s. o. <sup>2)</sup> Calculated.  
<sup>3)</sup> Produced by floating factories on their voyage to and from the Antarctic. <sup>4)</sup> No information.

Table h.—Average size of whales killed in the different grounds.

| Species of whales and whaling grounds | 1971     | 1970     | 1969     |
|---------------------------------------|----------|----------|----------|
|                                       | Engl.ft. | Engl.ft. | Engl.ft. |
| <b>Fin-whales.</b>                    |          |          |          |
| Antarctic:—                           |          |          |          |
| Pelagic whaling .....                 | 65.7     | 66.40    | 66.63    |
| Africa:—                              |          |          |          |
| Natal .....                           | 62.3     | 60.55    | 61.28    |
| Brazil .....                          | —        | —        | —        |
| North Atlantic and Arctic:—           |          |          |          |
| Norway .....                          | 60.7     | 63.09    | 57.69    |
| Iceland .....                         | 60.7     | 60.86    | 61.11    |
| Newfoundland .....                    | 59.3     | 59.30    | 59.33    |
| Nova Scotia .....                     | 57.6     | 56.89    | 56.73    |

Tabell h forts.

| Species of whales and whaling grounds | 1971 | 1970  | 1969  |
|---------------------------------------|------|-------|-------|
| Pacific North:—                       |      |       |       |
| California .....                      | 56,0 | 59,20 | 58,48 |
| Pelagic, Japan .....                  | 60,9 | 62,48 | 61,33 |
| Pelagic, U.S.S.R. ....                | 60,4 | 60,89 | 60,37 |
| Japan, coastal .....                  | 59,6 | 60,10 | 60,58 |
| <b><u>Sei-whales.</u></b>             |      |       |       |
| Antarctic:—                           |      |       |       |
| Pelagic whaling .....                 | 47,4 | 47,90 | 47,97 |
| Africa:—                              |      |       |       |
| Natal .....                           | 42,2 | 44,75 | 42,67 |
| Brazil .....                          | 46,9 | 49,85 | —     |
| North Atlantic and Arctic:—           |      |       |       |
| Norway .....                          | —    | —     | —     |
| Iceland .....                         | 43,8 | 44,95 | 44,87 |
| Newfoundland .....                    | —    | —     | —     |
| Nova Scotia .....                     | 44,5 | 44,55 | 44,51 |
| Pacific North:—                       |      |       |       |
| California .....                      | 47,5 | 44,75 | 44,30 |
| Pelagic, Japan .....                  | 44,7 | 45,15 | 44,92 |
| Pelagic, U.S.S.R. ....                | 43,4 | 44,71 | 44,50 |
| Japan coastal .....                   | 43,9 | 42,95 | 44,96 |
| Australia .....                       | —    | —     | —     |
| <b><u>Bryde-whales.</u></b>           |      |       |       |
| Pacific North:—                       |      |       |       |
| Pelagic, Japan .....                  | 41,4 | —     | —     |
| Pelagic, U.S.S.R. ....                | 42,6 | —     | —     |
| Japan coastal .....                   | 41,9 | —     | —     |
| <b><u>Minke-whales.</u></b>           |      |       |       |
| Africa:—                              |      |       |       |
| Natal .....                           | 26,4 | —     | —     |
| Brazil .....                          | 27,6 | —     | —     |
| North Atlantic and Arctic:—           |      |       |       |
| Newfoundland .....                    | 22,5 | —     | —     |
| <b><u>Sperm-whales.</u></b>           |      |       |       |
| Antarctic:—                           |      |       |       |
| Pelagic whaling .....                 | 43,4 | 44,90 | 45,48 |
| Africa:—                              |      |       |       |
| Natal .....                           | 35,8 | 37,10 | 36,29 |
| South Atlantic, pelagic .....         | 41,2 | 41,50 | 41,55 |
| Brazil .....                          | 36,2 | 37,16 | —     |
| North Atlantic and Arctic:—           |      |       |       |
| Norway .....                          | —    | 49,59 | 49,32 |
| Iceland .....                         | 50,4 | 49,85 | 49,41 |
| Newfoundland .....                    | —    | —     | —     |
| Nova Scotia .....                     | 47,4 | —     | —     |
| Pacific North:—                       |      |       |       |
| California .....                      | 38,4 | 38,74 | 38,62 |
| Pelagic, Japan .....                  | 45,5 | 44,65 | 41,96 |
| Pelagic, U.S.S.R. ....                | 42,1 | 41,20 | 42,33 |
| Japan coastal .....                   | 37,1 | 36,82 | 37,25 |
| South Pacific Ocean, pel .....        | 40,4 | 40,99 | —     |
| Indian Ocean, pel .....               | 40,5 | 40,59 | 41,45 |
| Australia .....                       | 43,3 | 43,59 | 42,74 |

**Table i.—North Atlantic and Arctic.**  
(Exclusive Azores, Madeira and Spain.)

| Grounds.                                | Years. | Species of whales caught. |      |            |      |        |         |                  | Oil production. | Expeditions.    |                     |           |
|---|--------|---------------------------|------|------------|------|--------|---------|------------------|-----------------|-----------------|---------------------|-----------|
|   |        | Blue.                     | Fin. | Hump-back. | Sei. | Sperm. | Others. | Total of whales. |                 | Shore stations. | Floating factories. | Catchers. |
| <i>North Atlantic and Arctic. Total</i> | 1969   | —                         | 800  | 8          | 222  | 219    | —       | 1,249            | 43,329          | 6               | —                   | 13        |
|   | 1970   | —                         | 911  | 15         | 139  | 139    | —       | 1,204            | 38,252          | 5               | —                   | 12        |
|   | 1971   | —                         | 663  | 24         | 476  | 205    | —       | 1,368            | 40,250          | 5               | —                   | 11        |
| <i>Norway.</i>                          | 1969   | —                         | 16   | —          | 1    | 111    | —       | 128              | 6,435           | 2               | —                   | 4         |
|   | 1970   | —                         | 44   | —          | —    | 51     | —       | 95               | 4,327           | 1               | —                   | 2         |
|   | 1971   | —                         | 37   | —          | —    | 62     | —       | 99               | 4,257           | 1               | —                   | 3         |
| <i>Iceland.</i>                         | 1969   | —                         | 251  | —          | 69   | 103    | —       | 423              | 16,518          | 1               | —                   | 4         |
|   | 1970   | —                         | 272  | —          | 44   | 61     | —       | 377              | 14,647          | 1               | —                   | 4         |
|   | 1971   | —                         | 208  | —          | 240  | 106    | —       | 554              | 16,863          | 1               | —                   | 4         |
| <i>Greenland</i>                        | 1969   | —                         | —    | 3          | —    | —      | —       | 3                |                 |                 |                     |           |
|   | 1970   | —                         | —    | —          | 1    | —      | —       | 1                |                 |                 |                     |           |
|   | 1971   | —                         | —    | 4          | 1    | —      | —       | 5                |                 |                 |                     |           |
| <i>Nova Scotia.</i>                     | 1969   | —                         | 157  | —          | 149  | —      | —       | 306              | 7 033           | 1               | —                   | 2         |
|   | 1970   | —                         | 170  | 1          | 93   | 25     | —       | 289              | 7,168           | 1               | —                   | 2         |
|   | 1971   | —                         | 117  | 4          | 235  | 37     | —       | 393              | 9,951           | 1               | —                   | 1         |
| <i>Newfoundland and Labrador.</i>       | 1969   | —                         | 376  | 5          | 3    | 5      | —       | 389              | 13,343          | 2               | —                   | 3         |
|   | 1970   | —                         | 406  | 14         | 1    | 2      | —       | 423              | 11,810          | 2               | —                   | 3         |
|   | 1971   | —                         | 301  | 16         | —    | —      | —       | 317              | 9,179           | 2               | —                   | 2         |
| <i>Pelagic.</i>                         | 1970   | —                         | 19   | —          | —    | —      | —       | 19               | 300             |                 | —                   | 1         |

<sup>1)</sup> Barrel = 170 kg. (Barrel = abt.  $\frac{1}{4}$  long ton).

**Table j.—Azores.**

| Years | Species of whales caught. |      |            |      |        |         |                  | Oil production. | Expeditions. <sup>1)</sup> |                     |           |
|-------|---------------------------|------|------------|------|--------|---------|------------------|-----------------|----------------------------|---------------------|-----------|
|       | Blue.                     | Fin. | Hump-back. | Sei. | Sperm. | Others. | Total of whales. |                 | Shore stations.            | Floating factories. | Catchers. |
|       |                           |      |            |      |        |         |                  | Barrels.        |                            |                     |           |
| 1969  | —                         | —    | —          | —    | 145    | —       | 145              | 3,999           | —                          | —                   | —         |
| 1970  | —                         | —    | —          | —    | 205    | —       | 205              | 5,432           | —                          | —                   | —         |
| 1971  | —                         | —    | —          | —    | 286    | —       | 286              | 6,984           | —                          | —                   | —         |

<sup>1)</sup> Several small shore stations. Whaling is carried on with rowing boats, and the whales are towed to shore by gasoline launches.

**Table k.—Madeira.**

| Years | Species of whales caught. |      |            |      |        |         |                  | Oil production. | Expeditions. <sup>1)</sup> |                     |           |
|-------|---------------------------|------|------------|------|--------|---------|------------------|-----------------|----------------------------|---------------------|-----------|
|       | Blue.                     | Fin. | Hump-back. | Sei. | Sperm. | Others. | Total of whales. |                 | Shore stations.            | Floating factories. | Catchers. |
|       |                           |      |            |      |        |         |                  | Barrels.        |                            |                     |           |
| 1969  | —                         | —    | —          | —    | 83     | —       | 83               | 1,365           | —                          | —                   | —         |
| 1970  | —                         | —    | —          | —    | 44     | —       | 44               | 861             | —                          | —                   | —         |
| 1971  | —                         | —    | —          | —    | 67     | —       | 67               | 1,165           | —                          | —                   | —         |

<sup>1)</sup> Several small shore stations. Whaling is carried on with rowing boats, and the whales are towed to shore by gasoline launches.

Table I.—Spain.

| Years.             | Species of whales caught. |      |            |      |        |                   |                  | Oil production.      | Expeditions.    |                     |           |
|--------------------|---------------------------|------|------------|------|--------|-------------------|------------------|----------------------|-----------------|---------------------|-----------|
|                    | Blue.                     | Fin. | Hump-back. | Sei. | Sperm. | Others.           | Total of whales. |                      | Shore stations. | Floating factories. | Catchers. |
| 1969               | —                         | —    | —          | —    | 193    | <sup>1)</sup> 122 | 315              | <sup>2)</sup> 8,740  | 3               | —                   | 3         |
| 1970               | —                         | —    | —          | —    | 261    | <sup>1)</sup> 152 | 413              | <sup>2)</sup> 11,300 | 3               | —                   | 3         |
| 1971 <sup>3)</sup> |                           |      |            |      |        |                   |                  |                      |                 |                     |           |

<sup>1)</sup> Baleen whales. No specification. <sup>2)</sup> Calculated. <sup>3)</sup> No information.

Table m.—South Atlantic Ocean. (North of 40° South Lat.)

Catch by floating factories on voyage to and from the Antarctic whaling grounds.

| Years. | Species of whales caught. |      |            |               |        |         |                  | Oil production. Barrels. | Expeditions.    |                     |                 |
|--------|---------------------------|------|------------|---------------|--------|---------|------------------|--------------------------|-----------------|---------------------|-----------------|
|        | Blue.                     | Fin. | Hump-back. | Sei.          | Sperm. | Others. | Total of whales. |                          | Shore stations. | Floating factories. | Catchers.       |
| 1969   | —                         | —    | —          | —             | 907    | —       | 907              | 26,847                   | —               | <sup>1)</sup> (2)   | <sup>1)</sup> — |
| 1970   | —                         | —    | —          | <sup>2)</sup> | 978    | —       | 980              | 29,956                   | —               | <sup>1)</sup> (3)   | <sup>1)</sup> — |
| 1971   | —                         | —    | —          | 8             | 1,225  | —       | 1,233            | 35,247                   | —               | <sup>1)</sup> (2)   | <sup>1)</sup> — |

<sup>1)</sup> The matériel is included in the Antarctic statistics. <sup>2)</sup> Bryde-whales.

Table n.—Africa.

| Grounds. | Years. | Species of whales caught. |      |            |      |        |               |                  | Oil production. | Expeditions.    |                     |           |  |
|----------|--------|---------------------------|------|------------|------|--------|---------------|------------------|-----------------|-----------------|---------------------|-----------|--|
|          |        | Blue.                     | Fin. | Hump-back. | Sei. | Sperm. | Others.       | Total of whales. |                 | Shore stations. | Floating factories. | Catchers. |  |
| Natal    | 1969   | —                         | 150  | —          | 40   | 1,885  | <sup>1)</sup> | 3 2,078          | Barrels. 50,657 | 1               | —                   | 7         |  |
|          | 1970   | —                         | 47   | —          | 8    | 1,824  | <sup>1)</sup> | 1 1,880          | 45,002          | 1               | —                   | 7         |  |
|          | 1971   | —                         | 64   | —          | 10   | 2,068  | <sup>1)</sup> | 1 2,143          | 46,959          | 1               | —                   | 6         |  |

<sup>1)</sup> Bryde-whales. <sup>2)</sup> In addition Minke-whales — see table Z<sup>3</sup>.

Table o.—Pacific North.

(Exclusive Japan, Bering Sea, and Kuril Islands.)

| Grounds.    | Years. | Species of whales caught. |      |            |      |        |                  |                  | Oil production. | Expeditions.    |                     |           |  |
|-------------|--------|---------------------------|------|------------|------|--------|------------------|------------------|-----------------|-----------------|---------------------|-----------|--|
|             |        | Blue.                     | Fin. | Hump-back. | Sei. | Sperm. | Others.          | Total of whales. |                 | Shore stations. | Floating factories. | Catchers. |  |
| California. | 1969   | —                         | 31   | —          | 10   | 68     | <sup>1)</sup> 74 | 183              | Barrels. 4,533  | 1               | —                   | 3         |  |
|             | 1970   | —                         | 5    | —          | 4    | 64     | —                | 73               | 1,724           | 1               | —                   | 3         |  |
|             | 1971   | —                         | 4    | —          | 2    | 47     | —                | 53               | 1,115           | 1               | —                   | 3         |  |

<sup>1)</sup> Grey-whales.

Table p.—Japan.

| Years. | Species of whales caught. |      |            |      |        |         |                  | Oil production.    | Expeditions.    |                     |           |
|--------|---------------------------|------|------------|------|--------|---------|------------------|--------------------|-----------------|---------------------|-----------|
|        | Blue.                     | Fin. | Hump-back. | Sei. | Sperm. | Others. | Total of whales. |                    | Shore stations. | Floating factories. | Catchers. |
| 1969   | —                         | 76   | —          | 466  | 3,668  | 1) 89   | 4,299            | Barrels.<br>87,124 | 7               | —                   | 14        |
| 1970   | —                         | 77   | —          | 484  | 3,484  | 1) 73   | 4,118            | 74,273             | 7               | —                   | 12        |
| 1971   | —                         | 66   | —          | 276  | 3,328  | 1) 172  | 3,842            | 73,532             | 6               | —                   | 12        |

1) Bryde-whales.

Table q.—North Pacific Ocean and Bering Sea. — Japan.

| Years. | Species of whales caught. |      |            |       |        |         |                  | Oil production.     | Expeditions.    |                     |           |
|--------|---------------------------|------|------------|-------|--------|---------|------------------|---------------------|-----------------|---------------------|-----------|
|        | Blue.                     | Fin. | Hump-back. | Sei.  | Sperm. | Others. | Total of whales. |                     | Shore stations. | Floating factories. | Catchers. |
| 1969   | —                         | 576  | —          | 3,591 | 3,000  | —       | 7,167            | Barrels.<br>174,900 | —               | 3                   | 27        |
| 1970   | —                         | 518  | —          | 3,235 | 2,700  | —       | 6,453            | 181,159             | —               | 3                   | 27        |
| 1971   | —                         | 542  | —          | 2,431 | 1,803  | 1) 98   | 4,874            | 145,571             | —               | 3                   | 26        |

1) Bryde-whales.

Table r.—North Pacific Ocean and Bering Sea — U.S.S.R.

| Years. | Species of whales caught. |      |            |       |        |         |                  | Oil production.     | Expeditions.    |                     |           |
|--------|---------------------------|------|------------|-------|--------|---------|------------------|---------------------|-----------------|---------------------|-----------|
|        | Blue.                     | Fin. | Hump-back. | Sei.  | Sperm. | Others. | Total of whales. |                     | Shore stations. | Floating factories. | Catchers. |
| 1969   | —                         | 593  | —          | 1,091 | 8,211  | —       | 9,895            | Barrels.<br>322,436 | —               | 3                   | 31        |
| 1970   | —                         | 412  | —          | 782   | 8,585  | 1) 66   | 9,845            | 308,518             | —               | 2                   | 30        |
| 1971   | —                         | 190  | —          | 296   | 5,525  | 1) 638  | 6,649            | 231,746             | —               | 2                   | 28        |

1) Bryde-whale.

Table s.—Brazil.

| Years. | Species of whales caught. |      |            |      |        |         |                  | Oil production.  | Expeditions.    |                     |           |
|--------|---------------------------|------|------------|------|--------|---------|------------------|------------------|-----------------|---------------------|-----------|
|        | Blue.                     | Fin. | Hump-back. | Sei. | Sperm. | Others. | Total of whales. |                  | Shore stations. | Floating factories. | Catchers. |
| 1969   | —                         | —    | —          | 62   | 75     | —       | 137              | Barrels<br>5,046 | 1               | —                   | 1         |
| 1970   | —                         | —    | —          | 26   | 76     | —       | 102              | 5,592            | 1               | —                   | 1         |
| 1971   | —                         | —    | —          | 20   | 55     | —       | 75               | 5,687            | 1               | —                   | 1         |

1) In addition Minke whales - see table Z<sup>2</sup>.

Table t.—Peru.

| Years. | Species of whales caught. |      |            |      |        |         |                  | Oil production.      | Expeditions.    |                     |               |
|--------|---------------------------|------|------------|------|--------|---------|------------------|----------------------|-----------------|---------------------|---------------|
|        | Blue.                     | Fin. | Hump-back. | Sei. | Sperm. | Others. | Total of whales. |                      | Shore stations. | Floating factories. | Catchers.     |
| 1969   | —                         | 74   | —          | 784  | 1,447  | —       | 2,305            | Barrels.<br>46,978   | 1               | —                   | 5             |
| 1970   | —                         | 85   | —          | 414  | 1,436  | —       | 1,935            | 40,245               | 1               | —                   | 4             |
| 1971   | —                         | 37   | —          | 415  | 1,321  | —       | 1,773            | <sup>1)</sup> 35,500 | 1               | —                   | <sup>2)</sup> |

<sup>1)</sup> Calculated. <sup>2)</sup> No information.

Table u.—Chile.

| Years. | Species of whales caught. |      |            |      |        |         |                  | Oil production.<br>Barrels. | Expeditions.    |                     |               |
|--------|---------------------------|------|------------|------|--------|---------|------------------|-----------------------------|-----------------|---------------------|---------------|
|        | Blue.                     | Fin. | Hump-back. | Sei. | Sperm. | Others. | Total of whales. |                             | Shore stations. | Floating factories. | Catchers.     |
| 1970   | 1                         | 3    | —          | 17   | 270    | —       | 291              | <sup>1)</sup> 6,500         | 1               | —                   | 3             |
| 1971   | 1                         | 3    | —          | 1    | 246    | 2       | 253              | <sup>1)</sup> 5,500         | 1               | —                   | <sup>2)</sup> |

<sup>1)</sup> Calculated. <sup>2)</sup> No information.

Table v.—South Pacific Ocean. (North of 40° South Lat.)<sup>1)</sup>

| Years. | Species of whales caught. |      |            |      |        |         |                  | Oil production.    | Expeditions.    |                     |                 |
|--------|---------------------------|------|------------|------|--------|---------|------------------|--------------------|-----------------|---------------------|-----------------|
|        | Blue.                     | Fin. | Hump-back. | Sei. | Sperm. | Others. | Total of whales. |                    | Shore stations. | Floating factories. | Catchers.       |
| 1970   | —                         | —    | —          | —    | 696    | —       | 696              | Barrels.<br>19,407 | —               | <sup>2)</sup> (2)   | <sup>2)</sup> — |
| 1971   | —                         | —    | —          | —    | 635    | —       | 635              | 18,563             | —               | <sup>2)</sup> (2)   | <sup>2)</sup>   |

<sup>1)</sup> Catch by fl. factories outside the Antarctic grounds. <sup>2)</sup> Incl. in the Antarctic statistics.

Table w.—Indian Ocean. (North of 40° South Lat.)<sup>1)</sup>

| Years. | Species of whales caught. |      |            |      |        |                 |                  | Oil production. | Expeditions.    |                     |                 |
|--------|---------------------------|------|------------|------|--------|-----------------|------------------|-----------------|-----------------|---------------------|-----------------|
|        | Blue.                     | Fin. | Hump-back. | Sei. | Sperm. | Others.         | Total of whales. |                 | Shore stations. | Floating factories. | Catchers.       |
| 1969   | —                         | —    | —          | —    | 955    | —               | 955              | 28,519          | —               | <sup>2)</sup> (5)   | <sup>2)</sup> — |
| 1970   | 5                         | —    | —          | —    | 1,449  | <sup>3)</sup> 2 | 1,456            | 40,168          | —               | <sup>2)</sup> (6)   | <sup>2)</sup> — |
| 1971   | —                         | —    | —          | —    | 1,681  | —               | 1,681            | 46,143          | —               | <sup>2)</sup> (4)   | <sup>2)</sup> — |

<sup>1)</sup> Catch by fl. factories outside the Antarctic grounds. <sup>2)</sup> Incl. in the Antarctic statistics. <sup>3)</sup> Bryde-whale.

Table x.—Australia.

| Years. | Species of whales caught. |      |            |      |        |         |                  | Oil production.    | Expeditions.    |                     |           |
|--------|---------------------------|------|------------|------|--------|---------|------------------|--------------------|-----------------|---------------------|-----------|
|        | Blue.                     | Fin. | Hump-back. | Sei. | Sperm. | Others. | Total of whales. |                    | Shore stations. | Floating factories. | Catchers. |
| 1969   | —                         | —    | —          | —    | 679    | —       | 679              | Barrels.<br>27,045 | 1               | —                   | 3         |
| 1970   | —                         | —    | —          | —    | 799    | —       | 799              | 33,307             | 1               | —                   | 3         |
| 1971   | —                         | —    | —          | —    | 860    | —       | 860              | 34,894             | 1               | —                   | 3         |

**Table Z<sup>1</sup>. — Production of by-products in the Antarctic and on other whaling grounds.**

|                                    | Whale meal,<br>bone meal | Whale liver | Liveroil      | Whale meat,<br>blubber,<br>ventral<br>grooves | Whale<br>solubles | Other<br>products |
|------------------------------------|--------------------------|-------------|---------------|---|-------------------|-------------------|
|                                    | L. tons                  | L. tons     | L. tons       | L. tons                                       | L. tons           | L. tons           |
| 1968-69 ..... Total                | 49,705                   | 1,964       | 21            | 159,021                                       | 5,934             | 24,140            |
| 1969-70 ..... »                    | 45,183                   | 1,887       | 10            | 163,458                                       | 8,438             | 24,117            |
| 1970-71 ..... »                    | 38,852                   | 1,778       | —             | 158,644                                       | 9,282             | 16,308            |
| <i>Summary by grounds</i>          |                          |             |               |   |                   |                   |
| Antarctic 1970-71 .....            | 13,601                   | 1,722       | <sup>1)</sup> | 91,296  | 3,245             | 13,142            |
| <i>Africa:—</i>                    |                          |             |               |   |                   |                   |
| Natal <sup>2)</sup> .....          | 5,411                    | —           | —             | 1,052   | —                 | 137               |
| Brazil <sup>3)</sup> .....         | 425                      | —           | —             | 2,294   | —                 | 2                 |
| <i>North Atlantic and Arctic:—</i> |                          |             |               |   |                   |                   |
| Azores .....                       | 86                       | —           | —             | 70  | —                 | 28                |
| Madeira .....                      | 53                       | —           | —             | 26  | —                 | —                 |
| Spain <sup>4)</sup> .....          | —                        | —           | —             | —   | —                 | —                 |
| Norway .....                       | 110                      | —           | —             | 538   | —                 | —                 |
| Newfoundland .....                 | —                        | —           | —             | 2,915   | —                 | —                 |
| Nova Scotia .....                  | 515                      | 56          | —             | 2,635   | 600               | 37                |
| Iceland .....                      | 1,910                    | —           | —             | 2,326   | —                 | 118               |
| <i>North Pacific:—</i>             |                          |             |               |   |                   |                   |
| California .....                   | 169                      | —           | —             | 154   | —                 | —                 |
| Pelagic, Japan .....               | 1,073                    | —           | —             | 36,594  | 3,002             | 665               |
| Pelagic, U.S.S.R. ....             | 8,752                    | —           | <sup>5)</sup> | 5,386   | —                 | 487               |
| Japan, coastal .....               | 5,144                    | —           | —             | 13,358  | —                 | 1,692             |
| Peru <sup>4)</sup> .....           | —                        | —           | —             | —   | —                 | —                 |
| Chile <sup>4)</sup> .....          | —                        | —           | —             | —   | —                 | —                 |
| Australia .....                    | 1,451                    | —           | —             | —   | 2,435             | —                 |
| <i>South Atlantic Ocean:—</i>      |                          |             |               |   |                   |                   |
| Pelagic <sup>6)</sup> .....        | 152                      | —           | —             | —   | —                 | —                 |
| Total .....                        | 38,852                   | 1,778       | <sup>7)</sup> | 158,644                                       | 9,282             | 16,308            |

<sup>1)</sup> 986,000 Mill. units of Vitamin A were produced. <sup>2)</sup> Incl. meat and meal from 204 Minke-whales. <sup>3)</sup> Incl. meat and meal from 900 Minke-whales. <sup>4)</sup> No information. <sup>5)</sup> 10,063,000 Mill. units of Vitamin A were produced. <sup>6)</sup> The production of the Antarctic pelagic expeditions except «Peder Huse» is included in the Antarctic production. <sup>7)</sup> 11,049,000 Mill. units of Vitamin A were produced.

Table Z.<sup>2</sup> — Catch of small whales by species and whaling grounds.

| Years<br>countries | Species of whales caught |                  |                 |                  |                  |                             |                                    |
|--------------------|--------------------------|------------------|-----------------|------------------|------------------|-----------------------------|------------------------------------|
|                    | Minke-<br>whales         | Bottle-<br>noses | Pilot<br>whales | Killer<br>whales | White-<br>whales | Baird's<br>beaked<br>whales | Others or<br>unspecified<br>whales |
| 1969.....          | 3,690                    | 486              | 1,552           | 248              | 1,126            | 138                         | 1,604                              |
| 1970.....          | 3,813                    | 535              | 738             | 277              | 1,488            | 113                         | 316,693                            |
| 1971.....          | 4,057                    | 213              | 1,215           | 94               | 843              | 118                         | 206,577                            |
| 1970.              |                          |                  |                 |                  |                  |                             |                                    |
| Brazil.....        | 701                      | —                | —               | —                | —                | —                           | —                                  |
| Canada.....        | 86                       | —                | 155             | —                | 72               | —                           | —                                  |
| Faroe Islands..... | —                        | —                | 388             | —                | —                | —                           | 60                                 |
| Greenland.....     | 197                      | —                | —               | 1                | 1,416            | —                           | 1,603                              |
| Japan.....         | 320                      | —                | 152             | 12               | —                | 113                         | 29                                 |
| Norway.....        | 2,308                    | 535              | 43              | 257              | —                | —                           | —                                  |
| South Africa.....  | 171                      | —                | —               | —                | —                | —                           | —                                  |
| U.S.A.....         | —                        | —                | —               | —                | —                | —                           | <sup>1)</sup> 315,000              |
| U.S.S.R.....       | 30                       | —                | —               | 7                | —                | —                           | 1                                  |
| Total.....         | 3,813                    | 535              | 738             | 277              | 1,488            | 113                         | 316,693                            |
| 1971.              |                          |                  |                 |                  |                  |                             |                                    |
| Brazil.....        | 900                      | —                | —               | —                | —                | —                           | —                                  |
| Canada.....        | 73                       | —                | —               | 2                | 106              | —                           | —                                  |
| Faroe Islands..... | 3                        | —                | 1,032           | 1                | —                | —                           | —                                  |
| Greenland.....     | 186                      | —                | —               | 2                | 737              | —                           | 1,552                              |
| Japan.....         | 289                      | —                | 181             | 10               | —                | 118                         | 25                                 |
| Norway.....        | 2,362                    | 213              | —               | 70               | —                | —                           | —                                  |
| South Africa.....  | 204                      | —                | —               | —                | —                | —                           | —                                  |
| U.S.A.....         | —                        | —                | —               | —                | —                | —                           | <sup>1)</sup> 205,000              |
| U.S.S.R.....       | 40                       | —                | 2               | 9                | —                | —                           | —                                  |
| Total.....         | 4,057                    | 213              | 1,215           | 94               | 843              | 118                         | 206,577                            |

<sup>1)</sup> See table Z<sup>1</sup>.



**Table Z<sup>3</sup>.—Catch of Minke-whales (*Balaenoptera Acutorostrata*)  
by months and whaling grounds.**

| Grounds   | Year    | Months |      |      |      |     |                 |      |      |       |      |      |      | Total |
|---|---------|--------|------|------|------|-----|-----------------|------|------|-------|------|------|------|-------|
|   |         | Jan.   | Feb. | Mar. | Apr. | May | June            | July | Aug. | Sept. | Oct. | Nov. | Dec. |       |
| Norway:—  |         |        |      |      |      |     |                 |      |      |       |      |      |      |       |
| Total .....   | 1969    | —      | —    | 17   | 73   | 583 | 1,246           | 106  | 363  | 3     | —    | —    | —    | 2,391 |
|   | 1970    | —      | —    | 3    | 85   | 695 | 916             | 200  | 372  | 36    | —    | —    | 1    | 2,308 |
|   | 1971    | —      | —    | 7    | 69   | 559 | 1,077           | 246  | 362  | 42    | —    | —    | —    | 2,362 |
| Of which:   |         |        |      |      |      |     |                 |      |      |       |      |      |      |       |
| Coastal districts <sup>1)</sup> ..                              | 1969    | —      | —    | 17   | 19   | 271 | 457             | 25   | 75   | —     | —    | —    | —    | 864   |
|   | 1970    | —      | —    | 3    | 63   | 151 | 361             | 67   | 94   | 4     | —    | —    | —    | 743   |
|   | 1971    | —      | —    | 4    | 48   | 152 | 224             | 68   | 27   | 10    | —    | —    | —    | 533   |
| Barents Sea,<br>Spitzbergen and<br>Bear Island <sup>2)</sup> .. | 1969    | —      | —    | —    | 19   | 215 | 559             | 1    | 18   | —     | —    | —    | —    | 812   |
|   | 1970    | —      | —    | —    | 2    | 471 | 391             | 4    | 16   | —     | —    | —    | —    | 884   |
|   | 1971    | —      | —    | —    | —    | 305 | 696             | —    | —    | —     | —    | —    | —    | 1,001 |
| Shetland, Iceland,<br>Greenland,<br>Jan Mayen <sup>1)</sup> ... | 1969    | —      | —    | —    | 35   | 97  | 230             | 80   | 270  | 3     | —    | —    | —    | 715   |
|   | 1970    | —      | —    | —    | 20   | 73  | 164             | 129  | 262  | 32    | —    | —    | —    | 680   |
|   | 1971    | —      | —    | 3    | 6    | 85  | 157             | 178  | 335  | 32    | —    | —    | —    | 796   |
| Antarctic <sup>4)</sup> .....                                   | 1969/70 | —      | —    | —    | —    | —   | —               | —    | —    | —     | —    | —    | 1    | 1     |
|   | 1970/71 | —      | —    | —    | 15   | 17  | —               | —    | —    | —     | —    | —    | —    | 32    |
| Denmark:—   |         |        |      |      |      |     |                 |      |      |       |      |      |      |       |
| Faroe Islands ....  | 1969    | —      | —    | —    | —    | —   | —               | —    | —    | —     | —    | —    | —    | —     |
|   | 1970    | —      | —    | —    | —    | —   | —               | —    | —    | —     | —    | —    | —    | —     |
|   | 1971    | —      | —    | —    | —    | —   | 3 <sup>5)</sup> | —    | —    | —     | —    | —    | —    | 3     |
| Greenland .....   | 1969    | 2      | —    | 3    | 16   | 23  | 41              | 38   | 51   | 31    | 24   | 1    | 1    | 231   |
|   | 1970    | 1      | 1    | 2    | 8    | 31  | 31              | 40   | 26   | 28    | 22   | 7    | —    | 197   |
|   | 1971    | —      | —    | 1    | 17   | 16  | 20              | 26   | 38   | 27    | 31   | 10   | —    | 186   |
| Canada:—  |         |        |      |      |      |     |                 |      |      |       |      |      |      |       |
| Newfoundland ...  | 1969    | —      | —    | —    | —    | 3   | 26              | 19   | 1    | 1     | —    | —    | —    | 50    |
|   | 1970    | —      | —    | —    | —    | 26  | 45              | 15   | —    | —     | —    | —    | —    | 86    |
|   | 1971    | —      | —    | —    | —    | 31  | 34              | 8    | —    | —     | —    | —    | —    | 73    |
| Brit. Columbia ...  | 1969    | —      | —    | —    | —    | —   | —               | —    | —    | —     | —    | —    | —    | —     |
|   | 1970    | —      | —    | —    | —    | —   | —               | —    | —    | —     | —    | —    | —    | —     |
| Japan:—   |         |        |      |      |      |     |                 |      |      |       |      |      |      |       |
| Coastal districts ..  | 1969    | —      | —    | 2    | 32   | 66  | 61              | 52   | 13   | 4     | —    | —    | —    | 230   |
|   | 1970    | —      | —    | 6    | 51   | 146 | 73              | 29   | 8    | 5     | 2    | —    | —    | 320   |
|   | 1971    | —      | —    | 8    | 59   | 46  | 85              | 50   | 23   | 12    | 2    | —    | —    | 285   |
| Pacific, pelagic ...  | 1970    | —      | —    | —    | —    | —   | 1               | 1    | 8    | —     | —    | —    | —    | 10    |
| Antarctic <sup>4)</sup> .....                                   | 1968/69 | 41     | —    | 1    | —    | —   | —               | —    | —    | —     | —    | —    | —    | 42    |
|   | 1969/70 | —      | —    | —    | —    | —   | —               | —    | —    | —     | —    | —    | —    | —     |
|   | 1970/71 | —      | 4    | —    | —    | —   | —               | —    | —    | —     | —    | —    | —    | 4     |
| Brazil .....  | 1969    | —      | —    | —    | —    | —   | 6               | 49   | 88   | 137   | 150  | 153  | 34   | 617   |
|   | 1970    | —      | —    | —    | —    | —   | 8               | 99   | 135  | 154   | 148  | 136  | 21   | 701   |
|   | 1971    | —      | —    | —    | —    | —   | 6               | 77   | 100  | 251   | 313  | 153  | —    | 900   |
| Africa:—  |         |        |      |      |      |     |                 |      |      |       |      |      |      |       |
| Natal .....   | 1969    | —      | —    | —    | 12   | 19  | 31              | 13   | 21   | 16    | —    | —    | —    | 112   |
|   | 1970    | —      | —    | —    | 12   | 25  | 9               | 19   | 28   | 78    | —    | —    | —    | 171   |
|   | 1971    | —      | —    | —    | 14   | 31  | 30              | 32   | 55   | 42    | —    | —    | —    | 204   |
| U.S.S.R.:—  |         |        |      |      |      |     |                 |      |      |       |      |      |      |       |
| Antarctic <sup>4)</sup> .....                                   | 1968/69 | 14     | 3    | —    | —    | —   | —               | —    | —    | —     | —    | —    | —    | 17    |
|   | 1969/70 | 6      | 8    | 12   | —    | —   | —               | —    | —    | —     | —    | 4    | —    | 30    |
|   | 1970/71 | 18     | —    | 2    | —    | —   | —               | —    | —    | —     | —    | 14   | 6    | 40    |

<sup>1)</sup> Catching period permitted: March 15th—June 30th and July 22th—September 14th, both days included. <sup>2)</sup> Catching period permitted: March 15th—June 30th, both days included. <sup>3)</sup> No information. <sup>4)</sup> Incl. catch north of 40° South. <sup>5)</sup> June—July.

**Table Z<sup>4</sup>. — Catch of Bottlenoses (*Hyperoodon Rostrata*), by months and whaling grounds.**

| Grounds  | Year    | Months |      |      |      |     |      |      |      |       |      |      |      | Total |
|--|---------|--------|------|------|------|-----|------|------|------|-------|------|------|------|-------|
|  |         | Jan.   | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |       |
| Norway:—   |         |        |      |      |      |     |      |      |      |       |      |      |      |       |
| Total . . . . .  | 1969    | —      | —    | —    | 81   | 139 | 226  | 29   | 8    | 2     | —    | —    | —    | 485   |
|  | 1970    | —      | —    | —    | 48   | 128 | 358  | —    | 1    | —     | —    | —    | —    | 535   |
|  | 1971    | —      | —    | —    | 1    | 49  | 161  | 2    | —    | —     | —    | —    | —    | 213   |
| Of which:  |         |        |      |      |      |     |      |      |      |       |      |      |      |       |
| Coastal districts . . .                                  | 1969    | —      | —    | —    | —    | 4   | 4    | —    | —    | —     | —    | —    | —    | 8     |
|  | 1970    | —      | —    | —    | 1    | —   | 4    | —    | 1    | —     | —    | —    | —    | 6     |
| Barents Sea,<br>Spitzbergen and<br>Bear Island . . . . . | 1969    | —      | —    | —    | 65   | 67  | 16   | —    | 2    | —     | —    | —    | —    | 150   |
|  | 1970    | —      | —    | —    | 43   | 38  | —    | —    | —    | —     | —    | —    | —    | 81    |
| Shetland, Iceland,<br>Greenland,<br>Jan Mayen . . . . .  | 1969    | —      | —    | —    | 16   | 68  | 206  | 29   | 6    | 2     | —    | —    | —    | 327   |
|  | 1970    | —      | —    | —    | 4    | 90  | 354  | —    | —    | —     | —    | —    | —    | 448   |
|  | 1971    | —      | —    | —    | 1    | 49  | 161  | 2    | —    | —     | —    | —    | —    | 213   |
| Canada:—   |         |        |      |      |      |     |      |      |      |       |      |      |      |       |
| Nova Scotia . . . . .                                    | 1969    | —      | —    | —    | —    | —   | —    | —    | —    | —     | —    | —    | —    | —     |
|  | 1970    | —      | —    | —    | —    | —   | —    | —    | —    | —     | —    | —    | —    | —     |
| U.S.S.R.:—   |         |        |      |      |      |     |      |      |      |       |      |      |      |       |
| Antarctic . . . . .                                      | 1968/69 | —      | 1    | —    | —    | —   | —    | —    | —    | —     | —    | —    | —    | 1     |
|  | 1969/70 | —      | —    | —    | —    | —   | —    | —    | —    | —     | —    | —    | —    | —     |
|  | 1970/71 | —      | —    | —    | —    | —   | —    | —    | —    | —     | —    | —    | —    | —     |

**Table Z<sup>5</sup>. — Catch of Pilot-whales (*Globicephala Melaena*), by months and whaling grounds.**

| Grounds   | Year    | Months |      |      |      |     |      |                  |      |       |      |      |      | Total |
|---|---------|--------|------|------|------|-----|------|------------------|------|-------|------|------|------|-------|
|   |         | Jan.   | Feb. | Mar. | Apr. | May | June | July             | Aug. | Sept. | Oct. | Nov. | Dec. |       |
| Norway:—  |         |        |      |      |      |     |      |                  |      |       |      |      |      |       |
| Total . . . . .   | 1969    | —      | —    | —    | —    | 2   | 6    | 1                | 18   | —     | —    | —    | —    | 27    |
|   | 1970    | —      | —    | —    | —    | —   | 4    | 1                | 38   | —     | —    | —    | —    | 43    |
| Of which:   |         |        |      |      |      |     |      |                  |      |       |      |      |      |       |
| Coastal districts . . .                                 | 1969    | —      | —    | —    | —    | —   | —    | —                | 3    | —     | —    | —    | —    | 3     |
|   | 1970    | —      | —    | —    | —    | —   | 4    | —                | 38   | —     | —    | —    | —    | 42    |
| Shetland, Iceland,<br>Greenland,<br>Jan Mayen . . . . . | 1969    | —      | —    | —    | —    | 2   | 6    | 1                | 15   | —     | —    | —    | —    | 24    |
|   | 1970    | —      | —    | —    | —    | —   | —    | 1                | —    | —     | —    | —    | —    | 1     |
| Denmark:—   |         |        |      |      |      |     |      |                  |      |       |      |      |      |       |
| Faroe Islands . . . . .                                 | 1969    | 121    | —    | 24   | 456  | —   | 71   | 86               | 172  | 292   | 124  | —    | 49   | 1,395 |
|   | 1970    | —      | —    | —    | 198  | —   | —    | —                | 101  | —     | —    | 89   | —    | 388   |
|   | 1971    | —      | —    | —    | —    | —   | —    | <sup>1)</sup> 17 | 433  | 394   | 145  | —    | 43   | 1,032 |
| Canada:—  |         |        |      |      |      |     |      |                  |      |       |      |      |      |       |
| Newfoundland . . .                                      | 1969    | —      | —    | —    | —    | —   | —    | —                | —    | —     | —    | —    | —    | —     |
|   | 1970    | —      | —    | —    | —    | —   | —    | 155              | —    | —     | —    | —    | —    | 155   |
| Japan:—   |         |        |      |      |      |     |      |                  |      |       |      |      |      |       |
| Coastal districts . .                                   | 1969    | 6      | 4    | 9    | 8    | 30  | 15   | 7                | —    | 2     | —    | 24   | 25   | 130   |
|   | 1970    | 14     | 21   | 5    | 14   | 24  | 28   | 16               | —    | —     | 18   | 12   | —    | 152   |
|   | 1971    | 10     | —    | 10   | 20   | 37  | 27   | 7                | —    | 23    | 24   | 10   | 13   | 181   |
| U.S.S.R.:—  |         |        |      |      |      |     |      |                  |      |       |      |      |      |       |
| Antarctic . . . . .                                     | 1970/71 | 1      | —    | —    | —    | —   | —    | —                | —    | —     | —    | —    | 1    | 2     |

<sup>1)</sup> June/July.

Table Z<sup>6</sup>. — Catch of Killer-whales (*Orcinus orca*), by months and whaling grounds.

| Grounds  | Year    | Months |      |      |      |     |      |      |      |       |      |      |      | Total |
|--|---------|--------|------|------|------|-----|------|------|------|-------|------|------|------|-------|
|  |         | Jan.   | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |       |
| Norway:—   |         |        |      |      |      |     |      |      |      |       |      |      |      |       |
| Total .....  | 1969    | —      | —    | 167  | 5    | 19  | 6    | —    | 28   | 6     | —    | —    | —    | 231   |
|  | 1970    | 5      | 137  | 66   | 12   | 16  | 8    | 3    | 1    | 6     | 3    | —    | —    | 257   |
|  | 1971    | 9      | —    | —    | 9    | 10  | 7    | 9    | 26   | —     | —    | —    | —    | 70    |
| Of which:  |         |        |      |      |      |     |      |      |      |       |      |      |      |       |
| Coastal districts ...                              | 1969    | —      | —    | 167  | 4    | 9   | 3    | —    | 6    | —     | —    | —    | —    | 189   |
|  | 1970    | 5      | 135  | 66   | 9    | 14  | 2    | 1    | —    | —     | —    | —    | —    | 232   |
|  | 1971    | 9      | —    | —    | 3    | —   | 6    | —    | —    | —     | —    | —    | —    | 18    |
| Barents Sea,<br>Spitzbergen and<br>Bear Island ... | 1969    | —      | —    | —    | 1    | —   | 2    | —    | —    | —     | —    | —    | —    | 3     |
|  | 1970    | —      | —    | —    | —    | 2   | —    | —    | —    | —     | —    | —    | —    | 2     |
| Shetland, Iceland,<br>Greenland,<br>Jan Mayen .... | 1969    | —      | —    | —    | —    | 10  | 1    | —    | 22   | 6     | —    | —    | —    | 39    |
|  | 1970    | —      | —    | —    | 3    | —   | 6    | 2    | 1    | —     | —    | —    | —    | 12    |
|  | 1971    | —      | —    | —    | —    | 2   | 1    | 9    | 26   | —     | —    | —    | —    | 38    |
| Antarctic .....                                    | 1968/69 | —      | —    | —    | —    | —   | —    | —    | —    | —     | —    | —    | —    | —     |
|  | 1969/70 | —      | 2    | —    | —    | —   | —    | —    | —    | 6     | 3    | —    | —    | 11    |
|  | 1970/71 | —      | —    | —    | 6    | 8   | —    | —    | —    | —     | —    | —    | —    | 14    |
| Denmark:—  |         |        |      |      |      |     |      |      |      |       |      |      |      |       |
| Greenland .....                                    | 1969    | —      | —    | —    | —    | —   | —    | —    | —    | —     | 1    | —    | —    | 1     |
|  | 1970    | —      | —    | —    | —    | —   | —    | —    | —    | 1     | —    | —    | —    | 1     |
|  | 1971    | —      | —    | —    | —    | —   | —    | —    | —    | 1     | 1    | —    | —    | 2     |
| Faroe Islands ....                                 | 1971    | —      | —    | —    | —    | —   | —    | —    | —    | —     | —    | —    | —    | 1     |
| Canada:—   |         |        |      |      |      |     |      |      |      |       |      |      |      |       |
| Newfoundland ...                                   | 1971    | —      | —    | —    | —    | —   | —    | 2    | —    | —     | —    | —    | —    | 2     |
| Japan:—  |         |        |      |      |      |     |      |      |      |       |      |      |      |       |
| Coastal districts ..                               | 1969    | —      | 2    | 2    | 1    | —   | —    | —    | —    | 5     | 3    | —    | 3    | 16    |
|  | 1970    | —      | 2    | —    | —    | —   | —    | —    | —    | 8     | —    | 2    | —    | 12    |
|  | 1971    | —      | —    | —    | 2    | —   | —    | 2    | —    | —     | 3    | 3    | —    | 10    |
| U.S.A.:—   |         |        |      |      |      |     |      |      |      |       |      |      |      |       |
| California .....                                   | 1969    | —      | —    | —    | —    | —   | —    | —    | —    | —     | —    | —    | —    | —     |
|  | 1970    | —      | —    | —    | —    | —   | —    | —    | —    | —     | —    | —    | —    | —     |
| Peru .....   | 1969    | —      | —    | —    | —    | —   | —    | —    | —    | —     | —    | —    | —    | —     |
|  | 1970    | —      | —    | —    | —    | —   | —    | —    | —    | —     | —    | —    | —    | —     |
| U.S.S.R.:—   |         |        |      |      |      |     |      |      |      |       |      |      |      |       |
| Antarctic <sup>1)</sup> .....                      | 1968/69 | —      | —    | —    | —    | —   | —    | —    | —    | —     | —    | —    | —    | —     |
|  | 1969/70 | —      | —    | 5    | 2    | —   | —    | —    | —    | —     | —    | —    | —    | 7     |
|  | 1970/71 | 1      | —    | 6    | —    | —   | —    | —    | —    | —     | —    | 2    | —    | 9     |

<sup>1)</sup> Incl. catch north of 40° South.

**Table Z<sup>7</sup>. — Catch of White-whales, (*Delphinapterus leucas*), by months and whaling grounds.**

| Grounds                         | Year | Months |      |      |      |     |      |      |      |       |      |      |      | Total  |
|---------------------------------|------|--------|------|------|------|-----|------|------|------|-------|------|------|------|--------|
|                                 |      | Jan.   | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |        |
| Canada:—                        |      |        |      |      |      |     |      |      |      |       |      |      |      |        |
| Hudson Bay . . . . .            | 1969 | —      | —    | —    | —    | —   | —    | 3    | 111  | 38    | 5    | —    | —    | 1) 178 |
|                                 | 1970 | —      | —    | —    | —    | —   | —    | —    | —    | —     | —    | —    | —    | 72     |
|                                 | 1971 | —      | —    | —    | —    | —   | —    | 7    | 15   | —     | —    | —    | —    | 2) 106 |
| Northwest Territories . . . . . | 1969 | —      | —    | —    | —    | —   | —    | —    | —    | —     | —    | —    | —    | —      |
|                                 | 1970 | —      | —    | —    | —    | —   | —    | —    | —    | —     | —    | —    | —    | —      |
| Denmark:—                       |      |        |      |      |      |     |      |      |      |       |      |      |      |        |
| Greenland . . . . .             | 1969 | 101    | 219  | 81   | 156  | 194 | 35   | 1    | 3    | 2     | 107  | 26   | 23   | 948    |
|                                 | 1970 | 403    | 80   | 55   | 200  | 263 | 24   | 7    | 20   | 70    | 259  | 26   | 9    | 1,416  |
|                                 | 1971 | 21     | 94   | 64   | 119  | 146 | 17   | 4    | 4    | —     | 192  | 60   | 16   | 737    |

1) Incl. 21 White-whales, without specification for months. 2) Incl. 84 whales taken during the period July—October.

**Table Z<sup>8</sup>. — Catch of Baird's beaked whales (*Berardius bairdii*), by months and whaling grounds.**

| Grounds                     | Year | Months |      |      |      |     |      |      |      |       |      |      |      | Total |
|-----------------------------|------|--------|------|------|------|-----|------|------|------|-------|------|------|------|-------|
|                             |      | Jan.   | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |       |
| U.S.A.:—                    |      |        |      |      |      |     |      |      |      |       |      |      |      |       |
| California . . . . .        | 1969 | —      | —    | —    | —    | —   | —    | —    | —    | —     | —    | —    | —    | —     |
|                             | 1970 | —      | —    | —    | —    | —   | —    | —    | —    | —     | —    | —    | —    | —     |
| Canada:—                    |      |        |      |      |      |     |      |      |      |       |      |      |      |       |
| British Columbia . . . . .  | 1969 | —      | —    | —    | —    | —   | —    | —    | —    | —     | —    | —    | —    | —     |
|                             | 1970 | —      | —    | —    | —    | —   | —    | —    | —    | —     | —    | —    | —    | —     |
| Japan:—                     |      |        |      |      |      |     |      |      |      |       |      |      |      |       |
| Coastal districts . . . . . | 1969 | —      | —    | —    | —    | —   | 14   | 22   | 30   | 33    | 21   | 15   | 3    | 138   |
|                             | 1970 | 3      | —    | —    | —    | —   | 4    | 37   | 32   | 18    | 18   | 1    | —    | 113   |
|                             | 1971 | —      | —    | —    | —    | 2   | 6    | 32   | 27   | 29    | 18   | 4    | —    | 118   |

**Table Z<sup>9</sup>. — Catch of others or unspecified small whales, by months and whaling grounds.**

| Grounds                     | Year    | Months |      |      |      |     |      |      |      |       |      |      |      | Total                |
|-----------------------------|---------|--------|------|------|------|-----|------|------|------|-------|------|------|------|----------------------|
|                             |         | Jan.   | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |                      |
| Denmark:—                   |         |        |      |      |      |     |      |      |      |       |      |      |      |                      |
| Faroe Islands . . . . .     | 1969    | —      | —    | —    | —    | —   | —    | —    | —    | —     | —    | —    | —    | —                    |
|                             | 1970    | —      | —    | —    | —    | —   | —    | —    | —    | 60    | —    | —    | —    | 60                   |
| Greenland . . . . .         | 1969    | 79     | 23   | 41   | 40   | 106 | 332  | 259  | 227  | 328   | 72   | 40   | 1    | 1,548 <sup>1)</sup>  |
|                             | 1970    | 137    | 5    | 45   | 37   | 75  | 139  | 396  | 355  | 246   | 105  | 47   | 16   | 1,603 <sup>2)</sup>  |
|                             | 1971    | 71     | 28   | 26   | 32   | 39  | 99   | 266  | 273  | 385   | 274  | 57   | 2    | 1,552 <sup>3)</sup>  |
| Japan:—                     |         |        |      |      |      |     |      |      |      |       |      |      |      |                      |
| Coastal districts . . . . . | 1969    | 39     | —    | 1    | —    | 1   | 1    | —    | 3    | 2     | 4    | 4    | 1    | 56                   |
|                             | 1970    | —      | 2    | —    | —    | 6   | —    | —    | 5    | 11    | 2    | 3    | —    | 29                   |
|                             | 1971    | 5      | —    | —    | 7    | 4   | 4    | 1    | —    | 2     | 2    | —    | —    | 25                   |
| U.S.A. . . . .              | 1970    | —      | —    | —    | —    | —   | —    | —    | —    | —     | —    | —    | —    | 315000 <sup>4)</sup> |
|                             | 1971    | —      | —    | —    | —    | —   | —    | —    | —    | —     | —    | —    | —    | 205000 <sup>5)</sup> |
| U.S.S.R.:—                  |         |        |      |      |      |     |      |      |      |       |      |      |      |                      |
| Antarctic . . . . .         | 1969/70 | 1      | —    | —    | —    | —   | —    | —    | —    | —     | —    | —    | —    | 1                    |

1) Of which 220 Narwhal and 1328 Common porpoises. 2) Of which 417 Narwhal, 1184 Common porpoises and 2 Whitesided porpoises. 3) Of which 232 Narwhal and 1319 Common porpoises. 4) 235,000 Spotted dolphin, 71,000 Spinner dolphin and 9,000 Common dolphin. See introduction. 5) 153,000 Spotted dolphin, 46,000 Spinner dolphin and 6,000 Common dolphin. See introduction.



## TABLES

Table No. 1 — Whaling in the Antarctic season 1970/71 and outside the Antarctic in 1971.

| Geographical areas                                  | Species of whales caught |        |                 |      |                     |        |                     | Oil production<br>Barrels <sup>10)</sup> | Expeditions            |                        |               |
|---|--------------------------|--------|-----------------|------|---------------------|--------|---------------------|--|------------------------|------------------------|---------------|
|   | Fin                      | Sei    | Bryde           | Hump | Sperm               | Others | Total               |  | Shore<br>sta-<br>tions | Floa-<br>ting<br>fact. | Catch-<br>ers |
| Antarctic, pelagic ..                               | 2,890                    | 6,153  | —               | —    | 3,055               | —      | 12,098              | 390,423                                  | —                      | 6                      | 86            |
| Africa:—  |                          |        |                 |      |                     |        |                     |  |                        |                        |               |
| Natal .....   | 64                       | 10     | 1               | —    | 2,068 <sup>1)</sup> | —      | 2,143 <sup>2)</sup> | 46,959                                   | 1                      | —                      | 6             |
| Brazil .....  | —                        | 20     | —               | —    | 55 <sup>3)</sup>    | —      | 75 <sup>2)</sup>    | 5,687                                    | 1                      | —                      | 1             |
| North Atlantic and<br>Arctic:—                      |                          |        |                 |      |                     |        |                     |  |                        |                        |               |
| Azores .....  | —                        | —      | —               | —    | 286                 | —      | 286                 | 6,984                                    | —                      | —                      | —             |
| Madeira .....                                       | —                        | —      | —               | —    | 67                  | —      | 67                  | 1,165                                    | —                      | —                      | —             |
| Spain <sup>4)</sup> .....                           | —                        | —      | —               | —    | —                   | —      | —                   | —  | —                      | —                      | —             |
| Norway .....  | 37                       | —      | —               | —    | 62                  | —      | 99                  | 4,257                                    | 1                      | —                      | 3             |
| Iceland .....                                       | 208                      | 240    | —               | —    | 106                 | —      | 554                 | 16,863                                   | 1                      | —                      | 4             |
| Greenland .....                                     | —                        | 1      | —               | 4    | —                   | —      | 5 <sup>4)</sup>     | —  | —                      | —                      | 4)            |
| Newfoundland ..                                     | 301                      | —      | — <sup>5)</sup> | 16   | — <sup>6)</sup>     | —      | 317                 | 9,179                                    | 2                      | —                      | 2             |
| Nova Scotia .....                                   | 117                      | 235    | — <sup>5)</sup> | 4    | 37                  | —      | 393                 | 9,951                                    | 1                      | —                      | 1             |
| Pacific North:—                                     |                          |        |                 |      |                     |        |                     |  |                        |                        |               |
| California .....                                    | 4                        | 2      | —               | —    | 47                  | —      | 53                  | 1,115                                    | 1                      | —                      | 3             |
| North Pacific and<br>Bering Sea,<br>pelagic:—       |                          |        |                 |      |                     |        |                     |  |                        |                        |               |
| Japan .....   | 542                      | 2,431  | 98              | —    | 1,803               | —      | 4,874               | 145,571                                  | —                      | 3                      | 26            |
| U.S.S.R. ....                                       | 190                      | 296    | 638             | —    | 5,525               | —      | 6,649               | 231,746                                  | —                      | 2                      | 28            |
| Japan coastal ..                                    | 66                       | 276    | 172             | —    | 3,328               | —      | 3,842               | 73,532                                   | 6                      | —                      | 12            |
| Peru .....  | 37                       | 415    | —               | —    | 1,321               | —      | 1,773 <sup>7)</sup> | 35,500                                   | 1                      | — <sup>4)</sup>        | —             |
| Chile .....   | 3                        | 1      | —               | —    | 246 <sup>8)</sup>   | 3      | 253 <sup>7)</sup>   | 5,500                                    | 1                      | — <sup>4)</sup>        | —             |
| Australia .....                                     | —                        | —      | —               | —    | 860                 | —      | 860                 | 34,894                                   | 1                      | —                      | 3             |
| South Atlantic<br>Ocean, pelagic <sup>9)</sup> ..   | — <sup>5)</sup>          | 8      | —               | —    | 1,225               | —      | 1,233               | 35,247                                   | —                      | —                      | —             |
| Indian Ocean,<br>pelagic <sup>9)</sup> .....        | —                        | —      | —               | —    | 1,681               | —      | 1,681               | 46,143                                   | —                      | —                      | —             |
| South Pacific Ocean,<br>pelagic <sup>9)</sup> ..... | —                        | —      | —               | —    | 635                 | —      | 635                 | 18,563                                   | —                      | —                      | —             |
| Total .....   | 4,459                    | 10,088 | 909             | 24   | 22,407              | 3      | 37,890              | 1,119,279                                | 17                     | 11                     | 175           |

<sup>1)</sup> In addition 204 Minke-whales. <sup>2)</sup> Inclusive oil produced from Minke-whales. <sup>3)</sup> In addition 900 Minke-whales. <sup>4)</sup> No information. <sup>5)</sup> Taken under special permit. <sup>6)</sup> In addition 73 Minke-whales, 4 Pilot-whales and 1 Killer-whale. <sup>7)</sup> Calculated. <sup>8)</sup> 1 blue- and 2 right-whales. <sup>9)</sup> Floating factories on voyage to and from the Antarctic and one combined floating factory/catcher. <sup>10)</sup> Barrel = 170 kg.

**Table No. 2. — Japanese whaling in 1970/71 and in 1971.**

| Geographical areas                                     | Species of whales caught |       |       |      |       |        |        | Oil production<br>Barrels | Expeditions            |                        |               |
|--|--------------------------|-------|-------|------|-------|--------|--------|---------------------------|------------------------|------------------------|---------------|
|  | Fin                      | Sei   | Bryde | Hump | Sperm | Others | Total  |                           | Shore<br>sta-<br>tions | Floa-<br>ting<br>fact. | Catch-<br>ers |
| Antarctic, pelagic..                                   | 1,607                    | 4,137 | —     | —    | 192   | —      | 5,936  | 172,946                   | —                      | 3                      | 40            |
| North Pacific Ocean<br>and Bering Sea,<br>pelagic..... | 542                      | 2,431 | 98    | —    | 1,803 | —      | 4,874  | 145,571                   | —                      | 3                      | 26            |
| Japan coastal .....                                    | 66                       | 276   | 172   | —    | 3,328 | —      | 3,842  | 73,532                    | 6                      | —                      | 12            |
| Indian Ocean,<br>pelagic <sup>1)</sup> .....           | —                        | —     | —     | —    | 426   | —      | 426    | 11,552                    | —                      | —                      | —             |
| South Pacific Ocean,<br>pelagic <sup>1)</sup> .....    | —                        | —     | —     | —    | 434   | —      | 434    | 10,789                    | —                      | —                      | —             |
| Total .....  | 2,215                    | 6,844 | 270   | —    | 6,183 | —      | 15,512 | 414,390                   | 6                      | 6                      | 78            |

<sup>1)</sup> Floating factories on voyage to and from Antarctic.

**Table No. 3 — Whaling of U.S.S.R. in 1970/71 and in 1971.**

|   |       |       |     |   |        |   |        |         |   |   |    |
|---|-------|-------|-----|---|--------|---|--------|---------|---|---|----|
| Antarctic, pelagic..                                    | 1,283 | 2,016 | —   | — | 2,863  | — | 6,162  | 217,477 | — | 3 | 46 |
| North Pacific Ocean<br>and Bering Sea,<br>pelagic ..... | 190   | 296   | 638 | — | 5,525  | — | 6,649  | 231,746 | — | 2 | 28 |
| South Atlantic<br>Ocean, pelagic <sup>1)</sup> ..       | —     | 8     | —   | — | 1,098  | — | 1,106  | 32,456  | — | — | —  |
| Indian Ocean,<br>pelagic <sup>1)</sup> .....            | —     | —     | —   | — | 1,255  | — | 1,255  | 34,591  | — | — | —  |
| South Pacific Ocean,<br>pelagic <sup>1)</sup> .....     | —     | —     | —   | — | 201    | — | 201    | 7,774   | — | — | —  |
| Total .....   | 1,473 | 2,320 | 638 | — | 10,942 | — | 15,373 | 524,044 | — | 5 | 74 |

<sup>1)</sup> Flating factories on voyage to and from Antarctic.

**Table No. 4. Whaling results for the various countries in 1970/71 and in 1971.**

|                           |       |        |     |                  |        |                 |        |                      |    |    |                 |
|---------------------------|-------|--------|-----|------------------|--------|-----------------|--------|----------------------|----|----|-----------------|
| U.S.S.R. ....             | 1,473 | 2,320  | 638 | —                | 10,942 | —               | 15,373 | 524,044              | —  | 5  | 74              |
| Japan .....               | 2,215 | 6,844  | 270 | —                | 6,183  | —               | 15,512 | 414,390              | 6  | 6  | 78              |
| South Africa .....        | 64    | 10     | 1   | —                | 2,068  | —               | 2,143  | 46,959               | 1  | —  | 6               |
| Peru .....                | 37    | 415    | —   | —                | 1,321  | —               | 1,773  | <sup>1)</sup> 35,500 | 1  | —  | <sup>5)</sup> — |
| Australia .....           | —     | —      | —   | —                | 860    | —               | 860    | 34,894               | 1  | —  | 3               |
| Canada .....              | 418   | 235    | —   | <sup>2)</sup> 20 | 37     | —               | 710    | 19,130               | 3  | —  | 3               |
| Iceland .....             | 208   | 240    | —   | —                | 106    | —               | 554    | 16,863               | 1  | —  | 4               |
| Greenland .....           | —     | 1      | —   | 4                | —      | —               | —      | —                    | —  | —  | <sup>5)</sup> — |
| Portugal .....            | —     | —      | —   | —                | 353    | —               | 353    | 8,149                | —  | —  | —               |
| Norway .....              | 37    | —      | —   | —                | 189    | —               | 226    | 7,048                | 1  | —  | <sup>3)</sup> 3 |
| Brazil .....              | —     | 20     | —   | —                | 55     | —               | 75     | 5,687                | 1  | —  | 1               |
| Chile .....               | 3     | 1      | —   | —                | 246    | <sup>4)</sup> 3 | 253    | <sup>1)</sup> 5,500  | 1  | —  | <sup>5)</sup> — |
| U.S.A. ....               | 4     | 2      | —   | —                | 47     | —               | 53     | 1,115                | 1  | —  | 3               |
| Spain <sup>5)</sup> ..... | —     | —      | —   | —                | —      | —               | —      | —                    | —  | —  | —               |
| Total .....               | 4,459 | 10,088 | 909 | 24               | 22,407 | 3               | 37,890 | 1,119,279            | 17 | 11 | 175             |

<sup>1)</sup> Calculated. <sup>2)</sup> Taken under special permit. <sup>3)</sup> In addition 1 combined floating factory/catcher. <sup>4)</sup> 1 blue- and 2 right-whales.  
<sup>5)</sup> No information.

Table No. 5 — Average size of whales caught in 1971.

| Geographical areas<br>Number of whales measured | Average size |         |               |
|---|--------------|---------|---------------|
|   | Males        | Females | Total animals |
| <b><u>A. Fin-whales.</u></b>                    |              |         |               |
| <i>Africa:</i> —                                |              |         |               |
| Natal .....                                     | 60.6         | 64.0    | 62.3          |
| Males 33 } Total 64                             |              |         |               |
| Females 31 }                                    |              |         |               |
| <i>North Atlantic and Arctic:</i> —             |              |         |               |
| Norway .....                                    | 58.2         | 63.1    | 60.7          |
| Males 18 } Total 37                             |              |         |               |
| Females 19 }                                    |              |         |               |
| Iceland .....                                   | 59.0         | 62.3    | 60.7          |
| Males 96 } Total 208                            |              |         |               |
| Females 112 }                                   |              |         |               |
| Newfoundland .....                              | 57.9         | 60.6    | 59.3          |
| Males 145 } Total 300                           |              |         |               |
| Females 155 }                                   |              |         |               |
| Nova Scotia .....                               | 55.7         | 58.7    | 57.6          |
| Males 44 } Total 117                            |              |         |               |
| Females 73 }                                    |              |         |               |
| <i>Pacific North:</i> —                         |              |         |               |
| California .....                                | 53.7         | 63.0    | 56.0          |
| Males 3 } Total 4                               |              |         |               |
| Females 1 }                                     |              |         |               |
| North Pacific Ocean and Bering Sea, pelagic:    |              |         |               |
| Japan .....                                     | 59.9         | 62.0    | 60.9          |
| Males 289 } Total 542                           |              |         |               |
| Females 253 }                                   |              |         |               |
| U.S.S.R. ....                                   | 60.2         | 60.6    | 60.4          |
| Males 99 } Total 190                            |              |         |               |
| Females 91 }                                    |              |         |               |
| Japan, coastal .....                            | 59.0         | 60.2    | 59.6          |
| Males 33 } Total 66                             |              |         |               |
| Females 33 }                                    |              |         |               |
| <b><u>B. Sei-whales.</u></b>                    |              |         |               |
| <i>Africa:</i> —                                |              |         |               |
| Natal .....                                     | 40.7         | 43.1    | 42.2          |
| Males 4 } Total 10                              |              |         |               |
| Females 6 }                                     |              |         |               |
| Brazil .....                                    | 44.8         | 49.3    | 46.9          |
| Males 11 } Total 20                             |              |         |               |
| Females 9 }                                     |              |         |               |
| <i>North Atlantic and Arctic:</i> —             |              |         |               |
| Iceland .....                                   | 43.6         | 44.1    | 43.8          |
| Males 121 } Total 240                           |              |         |               |
| Females 119 }                                   |              |         |               |



Table No. 5 (continued).

| Geographical areas<br>Number of whales measured | Average size |            |               |
|---|--------------|------------|---------------|
|   | Males        | Females    | Total animals |
|   | Engl. feet   | Engl. feet | Engl. feet    |
| Nova Scotia.....                                | 44.4         | 44.6       | 44.5          |
| Males 115} Total 234                            |              |            |               |
| Females 119}                                    |              |            |               |
| <i>Pacific North:—</i>                          |              |            |               |
| California.....                                 | 48.0         | 47.0       | 47.5          |
| Males 1} Total 2                                |              |            |               |
| Females 1}                                      |              |            |               |
| North Pacific Ocean and Bering Sea, pelagic:    |              |            |               |
| Japan.....                                      | 43.8         | 45.5       | 44.7          |
| Males 1186} Total 2419                          |              |            |               |
| Females 1233}                                   |              |            |               |
| U.S.S.R.....                                    | 43.6         | 43.3       | 43.4          |
| Males 138} Total 296                            |              |            |               |
| Females 158}                                    |              |            |               |
| Japan, coastal.....                             | 43.5         | 44.4       | 43.9          |
| Males 134} Total 276                            |              |            |               |
| Females 142}                                    |              |            |               |
| <b><u>C. Bryde-whales.</u></b>                  |              |            |               |
| <i>Pacific North:</i>                           |              |            |               |
| North Pacific Ocean and Bering Sea, pelagic:    |              |            |               |
| Japan.....                                      | 40.7         | 41.9       | 41.4          |
| Males 42} Total 109                             |              |            |               |
| Females 67}                                     |              |            |               |
| U.S.S.R.....                                    | 42.7         | 42.5       | 42.6          |
| Males 260} Total 638                            |              |            |               |
| Females 378}                                    |              |            |               |
| Japan, coastal.....                             | 41.7         | 42.0       | 41.9          |
| Males 80} Total 172                             |              |            |               |
| Females 92}                                     |              |            |               |
| <b><u>D. Minke-whales.</u></b>                  |              |            |               |
| <i>Afrika:</i>                                  |              |            |               |
| Natal.....                                      | 26.5         | 26.2       | 26.4          |
| Males 136} Total 204                            |              |            |               |
| Females 68}                                     |              |            |               |
| Brazil.....                                     | 26.8         | 28.1       | 27.6          |
| Males 330} Total 900                            |              |            |               |
| Females 570}                                    |              |            |               |
| <i>North Atlantic and Arctic:</i>               |              |            |               |
| Newfoundland.....                               | 21.8         | 22.7       | 22.5          |
| Males 15} Total 72                              |              |            |               |
| Females 57}                                     |              |            |               |

Table No. 5 (continued).

| Geographical areas<br>Number of whales measured     | Average size |            |               |
|---|--------------|------------|---------------|
|   | Males        | Females    | Total animals |
|   | Engl. feet   | Engl. feet | Engl. feet    |
| <b><u>E. Sperm-whales.</u></b>                      |              |            |               |
| <i>Africa:—</i>                                     |              |            |               |
| Natal .....   | 38.3         | 33.6       | 35.8          |
| Males 985 } Total 2,068                             |              |            |               |
| Females 1083 }                                      |              |            |               |
| Brazil .....  | 39.2         | 35.3       | 36.2          |
| Males 13 } Total 55                                 |              |            |               |
| Females 42 }  |              |            |               |
| <i>North Atlantic and Arctic:—</i>                  |              |            |               |
| Norway .....  | 48.4         | —          | 48.4          |
| Males 62  |              |            |               |
| Iceland .....                                       | 50.4         | —          | 50.4          |
| Males 106   |              |            |               |
| Nova Scotia .....                                   | 47.4         | —          | 47.4          |
| Males 37  |              |            |               |
| <i>Pacific North:—</i>                              |              |            |               |
| California .....                                    | 39.9         | 36.1       | 38.4          |
| Males 28 } Total 47                                 |              |            |               |
| Females 19 }  |              |            |               |
| <i>North Pacific Ocean and Bering Sea, pelagic:</i> |              |            |               |
| Japan .....   | 46.9         | 38.5       | 45.5          |
| Males 1,517 } Total 1,803                           |              |            |               |
| Females 286 }                                       |              |            |               |
| U.S.S.R. ....                                       | 42.5         | 37.8       | 42.1          |
| Males 5,052 } Total 5,512                           |              |            |               |
| Females 460 }                                       |              |            |               |
| Japan, coastal .....                                | 38.6         | 35.7       | 37.1          |
| Males 1,653 } Total 3,326                           |              |            |               |
| Females 1,673 }                                     |              |            |               |
| <i>Australia</i> .....                              | 43.7         | 35.4       | 43.3          |
| Males 819 } Total 860                               |              |            |               |
| Females 41 }  |              |            |               |
| <i>South Atlantic Ocean</i> .....                   | 41.8         | 35.4       | 41.2          |
| Males 1,108 } Total 1,225                           |              |            |               |
| Females 117 }                                       |              |            |               |
| <i>Indian Ocean</i> .....                           | 41.4         | 36.8       | 40.5          |
| Males 1,342 } Total 1,681                           |              |            |               |
| Females 339 }                                       |              |            |               |
| <i>South Pacific Ocean</i> .....                    | 42.6         | 38.6       | 40.4          |
| Males 294 } Total 635                               |              |            |               |
| Females 341 }                                       |              |            |               |

Table No. 6.—Whales caught in 1971 by species, sex and size.

## 1. Natal.

## Fin-whales.

| Engl. feet. | Number of |          | Total animals. | Engl. feet.     | Number of |          | Total animals.        |
|-------------|-----------|----------|----------------|-----------------|-----------|----------|-----------------------|
|             | males.    | females. |                |                 | males.    | females. |                       |
| 51          | 1         | —        | 1              | 70              | 1         | 2        | 3                     |
| 53          | —         | 2        | 2              | 71              | —         | 3        | 3                     |
| 54          | 3         | 1        | 4              | 72              | 1         | —        | 1                     |
| 55          | 6         | 2        | 8              | 73              | —         | 1        | 1                     |
| 56          | —         | 2        | 2              | 75              | —         | 1        | 1                     |
| 57          | 2         | 2        | 4              | 77              | —         | 1        | 1                     |
| 58          | 1         | —        | 1              | 78              | —         | 1        | 1                     |
| 59          | —         | 2        | 2              | Total           | 33        | 31       | 64                    |
| 60          | 2         | 1        | 3              | Average size {  |           |          | Males: 60.6 feet      |
| 61          | 2         | —        | 2              | Females: 64.0 " |           |          | Total animals: 62.3 " |
| 62          | 4         | —        | 4              | Per cent {      |           |          | Males: 51.6           |
| 63          | 2         | 2        | 4              | Females: 48.4   |           |          |                       |
| 64          | 3         | 2        | 5              |                 |           |          |                       |
| 65          | 1         | 1        | 2              |                 |           |          |                       |
| 66          | —         | 1        | 1              |                 |           |          |                       |
| 67          | 1         | 2        | 3              |                 |           |          |                       |
| 68          | 2         | 2        | 4              |                 |           |          |                       |
| 69          | 1         | —        | 1              |                 |           |          |                       |

## Sei-whales.

| Engl. feet. | Number of |          | Total animals. | Average size {  | Males: 40.7 feet      |
|-------------|-----------|----------|----------------|-----------------|-----------------------|
|             | males.    | females. |                |                 |                       |
| 35          | —         | 1        | 1              | Females: 43.1 " | Total animals: 42.2 " |
| 38          | 1         | —        | 1              |                 |                       |
| 40          | 1         | —        | 1              |                 |                       |
| 42          | 1         | 1        | 2              | Per cent {      | Males: 40.0           |
| 43          | 1         | 2        | 3              |                 |                       |
| 44          | —         | 1        | 1              |                 |                       |
| 52          | —         | 1        | 1              |                 |                       |
| Total       | 4         | 6        | 10             |                 |                       |

## Bryde-whales.

|       |   |   |   |                                  |
|-------|---|---|---|----------------------------------|
| 45    | — | 1 | 1 | Average length: Female 45.0 feet |
| Total | — | 1 | 1 |                                  |

Table No. 6 (continued).

## Minke-whales.

| Engl. feet. | Number of |          | Total animals. | Engl. feet.    | Number of  |                | Total animals. |      |
|-------------|-----------|----------|----------------|----------------|------------|----------------|----------------|------|
|             | males.    | females. |                |                | males.     | females.       |                |      |
| 12          | 1         | —        | 1              | 30             | 9          | 5              | 14             |      |
| 20          | 4         | 3        | 7              | 31             | 1          | 6              | 7              |      |
| 21          | 5         | 3        | 8              | Total          | 136        | 68             | 204            |      |
| 22          | 5         | 3        | 8              | Average size { | Males:     | 26.5 feet      | "              |      |
| 23          | 5         | 3        | 8              |                |            | Females:       |                | 26.2 |
| 24          | 5         | 4        | 9              |                |            | Total animals: |                | 26.4 |
| 25          | 10        | 9        | 19             |                | Per cent { | Males:         | 66.7           |      |
| 26          | 15        | 9        | 24             |                |            |                | Females:       | 33.3 |
| 27          | 22        | 13       | 35             |                |            |                |                |      |
| 28          | 34        | 5        | 39             |                |            |                |                |      |
| 29          | 20        | 5        | 25             |                |            |                |                |      |

## Sperm-whales.

|    |     |     |     |                |            |                |          |      |
|----|-----|-----|-----|----------------|------------|----------------|----------|------|
| 13 | —   | 2   | 2   | 42             | 32         | —              | 32       |      |
| 20 | —   | 3   | 3   | 43             | 35         | —              | 35       |      |
| 21 | 1   | —   | 1   | 44             | 37         | —              | 37       |      |
| 22 | 2   | —   | 2   | 45             | 35         | —              | 35       |      |
| 24 | —   | 1   | 1   | 46             | 32         | —              | 32       |      |
| 25 | —   | 1   | 1   | 47             | 22         | —              | 22       |      |
| 26 | 1   | 1   | 2   | 48             | 21         | —              | 21       |      |
| 27 | 1   | 2   | 3   | 49             | 15         | —              | 15       |      |
| 28 | 1   | 2   | 3   | 50             | 18         | —              | 18       |      |
| 29 | —   | 2   | 2   | 51             | 7          | —              | 7        |      |
| 30 | 4   | 5   | 9   | 52             | 5          | —              | 5        |      |
| 31 | 8   | 14  | 22  | 53             | 3          | —              | 3        |      |
| 32 | 52  | 223 | 275 | 55             | 1          | —              | 1        |      |
| 33 | 107 | 311 | 418 | Total          | 985        | 1,083          | 2,068    |      |
| 34 | 90  | 238 | 328 | Average size { | Males:     | 38.3 feet      | "        |      |
| 35 | 113 | 151 | 264 |                |            | Females:       |          | 33.6 |
| 36 | 82  | 73  | 155 |                |            | Total animals: |          | 35.8 |
| 37 | 74  | 38  | 112 |                | Per cent { | Males:         | 47.6     |      |
| 38 | 73  | 12  | 85  |                |            |                | Females: | 52.4 |
| 39 | 48  | 3   | 51  |                |            |                |          |      |
| 40 | 31  | 1   | 32  |                |            |                |          |      |
| 41 | 34  | —   | 34  |                |            |                |          |      |

## 2. Norway.

## Fin-whales.

|    |   |   |   |                |            |                |          |      |
|----|---|---|---|----------------|------------|----------------|----------|------|
| 50 | 1 | — | 1 | 65             | 1          | 1              | 2        |      |
| 51 | 1 | 1 | 2 | 66             | 1          | 2              | 3        |      |
| 52 | 1 | — | 1 | 67             | —          | 1              | 1        |      |
| 54 | 1 | — | 1 | 68             | —          | 1              | 1        |      |
| 55 | 1 | 1 | 2 | 70             | —          | 2              | 2        |      |
| 56 | 1 | — | 1 | Total          | 18         | 19             | 37       |      |
| 57 | 2 | — | 2 | Average size { | Males:     | 58.2 feet      | "        |      |
| 58 | 1 | — | 1 |                |            | Females:       |          | 63.1 |
| 59 | 1 | — | 1 |                |            | Total animals: |          | 60.7 |
| 60 | 2 | 2 | 4 |                | Per cent { | Males:         | 48.7     |      |
| 61 | 2 | 1 | 3 |                |            |                | Females: | 51.3 |
| 62 | — | 4 | 4 |                |            |                |          |      |
| 63 | 2 | 1 | 3 |                |            |                |          |      |
| 64 | — | 2 | 2 |                |            |                |          |      |

Table No. 6 (continued).

## Sperm-whales.

| Engl. feet. | Number of |          | Total animals. | Engl. feet.                    | Number of |          | Total animals. |
|-------------|-----------|----------|----------------|--------------------------------|-----------|----------|----------------|
|             | males.    | females. |                |                                | males.    | females. |                |
| 41          | 1         | —        | 1              | 51                             | 4         | —        | 4              |
| 42          | 1         | —        | 1              | 52                             | 4         | —        | 4              |
| 43          | 3         | —        | 3              | 53                             | 5         | —        | 5              |
| 44          | 3         | —        | 3              | 54                             | 1         | —        | 1              |
| 45          | 5         | —        | 1              | 55                             | 1         | —        | 1              |
| 46          | 1         | —        | 5              |                                |           |          |                |
| 47          | 10        | —        | 10             | Total                          | 62        | —        | 62             |
| 48          | 5         | —        | 5              | Average size males: 48.4 feet. |           |          |                |
| 49          | 8         | —        | 8              |                                |           |          |                |
| 50          | 10        | —        | 10             |                                |           |          |                |

## 3. Brazil.

## Sei-whales.

|    |   |   |   |                                 |    |   |    |
|----|---|---|---|---------------------------------|----|---|----|
| 35 | 1 | — | 1 | 52                              | —  | 2 | 2  |
| 38 | 1 | — | 1 | 53                              | —  | 1 | 1  |
| 42 | 2 | — | 2 | 54                              | —  | 1 | 1  |
| 43 | 1 | 1 | 2 | Total                           | 11 | 9 | 20 |
| 45 | — | 1 | 1 | Average size { Males: 44.8 feet |    |   |    |
| 46 | 1 | — | 1 | { Females: 49.3 "               |    |   |    |
| 47 | 1 | — | 1 | { Total animals: 46.9 "         |    |   |    |
| 48 | 1 | 2 | 3 | Per cent { Males: 55.0          |    |   |    |
| 49 | — | 1 | 1 | { Females: 45.0                 |    |   |    |
| 50 | 1 | — | 1 |                                 |    |   |    |
| 51 | 2 | — | 2 |                                 |    |   |    |

## Sperm-whales.

|       |    |    |    |                                 |  |  |  |
|-------|----|----|----|---------------------------------|--|--|--|
| 35    | 4  | 37 | 41 | Average size { Males: 39.2 feet |  |  |  |
| 36    | 3  | 4  | 7  | { Females: 35.3 "               |  |  |  |
| 38    | 2  | —  | 2  | { Total animals: 36.2 "         |  |  |  |
| 40    | 2  | —  | 2  | Per cent { Males: 23.6          |  |  |  |
| 45    | —  | 1  | 1  | { Females: 76.4                 |  |  |  |
| 51    | 1  | —  | 1  |                                 |  |  |  |
| 54    | 1  | —  | 1  |                                 |  |  |  |
| Total | 13 | 42 | 55 |                                 |  |  |  |

## Minke-whales.

|       |     |     |     |                                 |  |  |  |
|-------|-----|-----|-----|---------------------------------|--|--|--|
| 25    | 76  | 71  | 147 | Average size { Males: 26.8 feet |  |  |  |
| 26    | 67  | 51  | 118 | { Females: 28.1 "               |  |  |  |
| 27    | 78  | 77  | 155 | { Total animals: 27.6 "         |  |  |  |
| 28    | 66  | 136 | 202 | Per cent { Males: 36.7          |  |  |  |
| 29    | 32  | 96  | 128 | { Females: 63.3                 |  |  |  |
| 30    | 10  | 82  | 92  |                                 |  |  |  |
| 31    | —   | 42  | 42  |                                 |  |  |  |
| 32    | 1   | 12  | 13  |                                 |  |  |  |
| 33    | —   | 1   | 1   |                                 |  |  |  |
| 34    | —   | 1   | 1   |                                 |  |  |  |
| 35    | —   | 1   | 1   |                                 |  |  |  |
| Total | 330 | 570 | 900 |                                 |  |  |  |

Table No. 6 (continued).

## 4. Iceland.

## Fin-whales.

| Engl. feet. | Number of |          | Total animals. | Engl. feet.    | Number of |          | Total animals.        |
|-------------|-----------|----------|----------------|----------------|-----------|----------|-----------------------|
|             | males.    | females. |                |                | males.    | females. |                       |
| 50          | 1         | 2        | 3              | 66             | 1         | 7        | 8                     |
| 51          | 1         | 2        | 3              | 67             | 1         | 8        | 9                     |
| 52          | 4         | —        | 4              | 68             | 2         | 5        | 7                     |
| 53          | 1         | 3        | 4              | 69             | —         | 3        | 3                     |
| 54          | 3         | 4        | 7              | 70             | —         | 5        | 5                     |
| 55          | 7         | 3        | 10             | 71             | —         | 2        | 2                     |
| 56          | 8         | 2        | 10             | Total          | 96        | 112      | 208                   |
| 57          | 8         | 4        | 12             | Average size { |           |          | Males: 59.0 feet      |
| 58          | 9         | 5        | 14             |                |           |          | Females: 62.3 "       |
| 59          | 6         | 5        | 11             | Per cent {     |           |          | Total animals: 60.7 " |
| 60          | 16        | 4        | 20             |                |           |          | Males: 46.2           |
| 61          | 9         | 6        | 15             | Females: 53.8  |           |          |                       |
| 62          | 10        | 14       | 24             |                |           |          |                       |
| 63          | 4         | 8        | 12             |                |           |          |                       |
| 64          | 3         | 8        | 11             |                |           |          |                       |
| 65          | 2         | 12       | 14             |                |           |          |                       |

## Sei-whales.

| Engl. feet. | Number of |          | Total animals. | Engl. feet     | Number of |          | Total animals.        |
|-------------|-----------|----------|----------------|----------------|-----------|----------|-----------------------|
|             | males.    | females. |                |                | males.    | females. |                       |
| 33          | —         | 1        | 1              | 48             | 4         | 13       | 17                    |
| 35          | 1         | 2        | 3              | 49             | 1         | 5        | 6                     |
| 36          | 3         | 3        | 6              | 50             | —         | 7        | 7                     |
| 37          | 1         | 2        | 3              | 51             | —         | 1        | 1                     |
| 38          | 1         | 3        | 4              | Total          | 121       | 119      | 240                   |
| 39          | 3         | 3        | 6              | Average size { |           |          | Males: 43.6 feet      |
| 40          | 6         | 9        | 15             |                |           |          | Females: 44.1 "       |
| 41          | 5         | 7        | 12             | Per cent {     |           |          | Total animals: 43.8 " |
| 42          | 15        | 6        | 21             |                |           |          | Males: 50.4           |
| 43          | 15        | 15       | 30             | Females: 49.6  |           |          |                       |
| 44          | 22        | 12       | 34             |                |           |          |                       |
| 45          | 24        | 6        | 30             |                |           |          |                       |
| 46          | 14        | 10       | 24             |                |           |          |                       |
| 47          | 6         | 14       | 20             |                |           |          |                       |

## Sperm-whales.

| Engl. feet. | Number of |          | Total animals. | Engl. feet.                    | Number of |          | Total animals. |
|-------------|-----------|----------|----------------|--------------------------------|-----------|----------|----------------|
|             | males.    | females. |                |                                | males.    | females. |                |
| 41          | 1         | —        | 1              | 54                             | 10        | —        | 10             |
| 43          | 1         | —        | 1              | 55                             | 4         | —        | 4              |
| 44          | 5         | —        | 5              | 57                             | 2         | —        | 2              |
| 45          | 7         | —        | 7              | 58                             | 1         | —        | 1              |
| 46          | 5         | —        | 5              | Total                          | 106       | —        | 106            |
| 47          | 6         | —        | 6              | Average size males: 50.4 feet. |           |          |                |
| 48          | 4         | —        | 4              |                                |           |          |                |
| 49          | 9         | —        | 9              |                                |           |          |                |
| 50          | 6         | —        | 6              |                                |           |          |                |
| 51          | 12        | —        | 12             |                                |           |          |                |
| 52          | 15        | —        | 15             |                                |           |          |                |
| 53          | 18        | —        | 18             |                                |           |          |                |

Table No. 6 (continued).

## 5. Newfoundland.

## Fin-whales.

| Engl. feet. | Number of |          | Total animals. | Engl. feet.   | Number of |          | Total animals. |   |  |  |  |
|-------------|-----------|----------|----------------|---|-----------|----------|----------------|---|--|--|--|
|             | males.    | females. |                |   | males.    | females. |                |   |  |  |  |
| 46          | 1         | —        | 1              | 65  | —         | 16       | 16             |   |  |  |  |
| 48          | —         | 2        | 2              | 66  | —         | 6        | 6              |   |  |  |  |
| 49          | 2         | 1        | 3              | 67  | —         | 7        | 7              |   |  |  |  |
| 50          | —         | 3        | 3              | 68  | —         | 1        | 1              |   |  |  |  |
| 51          | 4         | 2        | 6              | 70  | —         | 1        | 1              |   |  |  |  |
| 52          | —         | 1        | 1              | Total   | 145       | 155      | 300            |   |  |  |  |
| 53          | 4         | 1        | 5              | Average size { Males: 57.9 feet<br>Females: 60.6 „<br>Total animals: 59.3 „ |           |          |                |   |  |  |  |
| 54          | 4         | 5        | 9              |   |           |          |                | Per cent { Males: 48.3<br>Females: 51.7 |  |  |  |
| 55          | 15        | 8        | 23             |   |           |          |                |   |  |  |  |
| 56          | 6         | 3        | 9              |   |           |          |                |   |  |  |  |
| 57          | 18        | 9        | 27             |   |           |          |                |   |  |  |  |
| 58          | 23        | 5        | 28             |   |           |          |                |   |  |  |  |
| 59          | 22        | 8        | 30             |   |           |          |                |   |  |  |  |
| 60          | 21        | 16       | 37             |   |           |          |                |   |  |  |  |
| 61          | 17        | 17       | 34             |   |           |          |                |   |  |  |  |
| 62          | 7         | 20       | 27             |   |           |          |                |   |  |  |  |
| 63          | 1         | 14       | 15             |   |           |          |                |   |  |  |  |
| 64          | —         | 9        | 9              |   |           |          |                |   |  |  |  |

## Minke-whales.

|       |    |    |    |   |  |  |  |   |  |  |  |                   |  |  |  |
|-------|----|----|----|---|--|--|--|---|--|--|--|-------------------|--|--|--|
| 17    | 1  | 2  | 3  | Average size { Males: 21.8 feet<br>Females: 22.7 „<br>Total animals: 22.5 „ |  |  |  |   |  |  |  |                   |  |  |  |
| 18    | 1  | 2  | 3  |   |  |  |  | Per cent { Males: 20.8<br>Females: 79.2 |  |  |  |                   |  |  |  |
| 19    | —  | 3  | 3  |   |  |  |  |   |  |  |  | I sex not stated. |  |  |  |
| 20    | 3  | 5  | 8  |   |  |  |  |   |  |  |  |                   |  |  |  |
| 21    | 2  | 8  | 10 |   |  |  |  |   |  |  |  |                   |  |  |  |
| 22    | 3  | 5  | 8  |   |  |  |  |   |  |  |  |                   |  |  |  |
| 23    | 2  | 11 | 13 |   |  |  |  |   |  |  |  |                   |  |  |  |
| 24    | —  | 4  | 4  |   |  |  |  |   |  |  |  |                   |  |  |  |
| 25    | 1  | 6  | 7  |   |  |  |  |   |  |  |  |                   |  |  |  |
| 26    | 1  | 6  | 7  |   |  |  |  |   |  |  |  |                   |  |  |  |
| 27    | 1  | 5  | 6  |   |  |  |  |   |  |  |  |                   |  |  |  |
| Total | 15 | 57 | 72 |   |  |  |  |   |  |  |  |                   |  |  |  |

## 6. Nova Scotia.

## Fin-whales.

| Engl. feet. | Number of |          | Total animals. | Engl. feet.   | Number of |          | Total animals. |   |  |  |  |
|-------------|-----------|----------|----------------|---|-----------|----------|----------------|---|--|--|--|
|             | males.    | females. |                |   | males.    | females. |                |   |  |  |  |
| 45          | —         | 1        | 1              | 62  | 2         | 8        | 10             |   |  |  |  |
| 49          | —         | 2        | 2              | 63  | 1         | 12       | 13             |   |  |  |  |
| 50          | 4         | 3        | 7              | 65  | —         | 1        | 1              |   |  |  |  |
| 51          | 2         | —        | 2              | 67  | —         | 2        | 2              |   |  |  |  |
| 52          | 3         | 6        | 9              | 68  | —         | 2        | 2              |   |  |  |  |
| 53          | 3         | 1        | 4              | Total   | 44        | 73       | 117            |   |  |  |  |
| 54          | 7         | 4        | 11             | Average size { Males: 55.7 feet<br>Females: 58.7 „<br>Total animals: 57.6 „ |           |          |                |   |  |  |  |
| 55          | 3         | —        | 3              |   |           |          |                | Per cent { Males: 37.6<br>Females: 62.4 |  |  |  |
| 56          | 3         | 2        | 5              |   |           |          |                |   |  |  |  |
| 57          | 2         | 6        | 8              |   |           |          |                |   |  |  |  |
| 58          | 5         | 6        | 11             |   |           |          |                |   |  |  |  |
| 59          | 7         | 7        | 14             |   |           |          |                |   |  |  |  |
| 60          | 2         | 4        | 6              |   |           |          |                |   |  |  |  |
| 61          | —         | 6        | 6              |   |           |          |                |   |  |  |  |

Table No. 6 (continued).

## Sei-whales.

| Engl. feet. | Number of |          | Total animals. | Engl. feet.  | Number of |          | Total animals.          |
|-------------|-----------|----------|----------------|--------------|-----------|----------|-------------------------|
|             | males.    | females. |                |              | males.    | females. |                         |
| 33          | 1         | —        | 1              | 47           | 12        | 22       | 34                      |
| 35          | —         | 1        | 1              | 48           | 6         | 13       | 19                      |
| 36          | —         | 2        | 2              | 49           | 3         | 3        | 6                       |
| 37          | 2         | 5        | 7              | 50           | 1         | 1        | 2                       |
| 38          | 3         | 3        | 6              | Total        | 115       | 119      | 234                     |
| 39          | —         | 2        | 2              | Average size |           |          | { Males: 44.4 feet      |
| 40          | 2         | 3        | 5              |              |           |          | { Females: 44.6 "       |
| 41          | 4         | 1        | 5              |              |           |          | { Total animals: 44.5 " |
| 42          | 7         | 5        | 12             | Per cent     |           |          | { Males: 49.1           |
| 43          | 9         | 7        | 16             |              |           |          | { Females: 50.9         |
| 44          | 32        | 20       | 52             |              |           |          |                         |
| 45          | 17        | 10       | 27             |              |           |          |                         |
| 46          | 16        | 21       | 37             |              |           |          |                         |

## Sperm-whales.

|    |   |   |   |                                |    |   |    |
|----|---|---|---|--------------------------------|----|---|----|
| 40 | 1 | — | 1 | 52                             | 1  | — | 1  |
| 41 | 3 | — | 3 | 53                             | 1  | — | 1  |
| 42 | 2 | — | 2 | 54                             | 4  | — | 4  |
| 43 | 6 | — | 6 | 55                             | 1  | — | 1  |
| 44 | 2 | — | 2 | 56                             | 1  | — | 1  |
| 45 | 2 | — | 2 | Total                          | 37 | — | 37 |
| 46 | 3 | — | 3 | Average size: Males: 47.4 feet |    |   |    |
| 47 | 1 | — | 1 |                                |    |   |    |
| 48 | 1 | — | 1 |                                |    |   |    |
| 50 | 4 | — | 4 |                                |    |   |    |
| 51 | 4 | — | 4 |                                |    |   |    |

## 7. California.

## Fin-whales.

| Engl. feet. | Number of |          | Total animals. | Average size            | Per cent |
|-------------|-----------|----------|----------------|-------------------------|----------|
|             | males.    | females. |                |                         |          |
| 52          | 1         | —        | 1              | { Males: 53.7 feet      |          |
| 53          | 1         | —        | 1              | { Females: 63.0 "       |          |
| 56          | 1         | —        | 1              | { Total animals: 56.0 " |          |
| 63          | —         | 1        | 1              | { Males: 75.0           |          |
| Total       | 3         | 1        | 4              | { Females: 25.0         |          |

## Sei-whales.

| Engl. feet. | Number of |          | Total animals. | Average size            | Per cent |
|-------------|-----------|----------|----------------|-------------------------|----------|
|             | males.    | females. |                |                         |          |
| 47          | —         | 1        | 1              | { Males: 48.0 feet      |          |
| 48          | 1         | —        | 1              | { Females: 47.0 "       |          |
| Total       | 1         | 1        | 2              | { Total animals: 47.5 " |          |
|             |           |          |                | { Males: 50.0           |          |
|             |           |          |                | { Females: 50.0         |          |



Table No. 6 (continued).

## Sperm-whales.

| Engl. feet. | Number of |          | Total animals. | Engl. feet.  | Number of             |                  | Total animals. |
|-------------|-----------|----------|----------------|--------------|-----------------------|------------------|----------------|
|             | males.    | females. |                |              | males.                | females.         |                |
| 35          | 7         | 8        | 15             | 47           | 2                     | -                | 2              |
| 36          | 4         | 3        | 7              | 50           | 1                     | -                | 1              |
| 37          | 1         | 7        | 8              | 51           | 1                     | -                | 1              |
| 39          | 3         | 1        | 4              | Total        | 28                    | 19               | 47             |
| 40          | 3         | -        | 3              | Average size |                       | Males: 39.9 feet |                |
| 41          | 1         | -        | 1              |              | Females: 36.1 "       |                  |                |
| 42          | 1         | -        | 1              |              | Total animals: 38.4 " |                  |                |
| 43          | 1         | -        | 1              | Per cent     |                       | Males: 59.6      |                |
| 44          | 2         | -        | 2              |              | Females: 40.4         |                  |                |
| 45          | 1         | -        | 1              |              |                       |                  |                |

## 8. North Pacific Ocean and Bering Sea, pelagic.

## 1. Japan.

## Fin-whales.

| Engl. feet. | Number of |          | Total animals. | Engl. feet.  | Number of             |                  | Total animals. |
|-------------|-----------|----------|----------------|--------------|-----------------------|------------------|----------------|
|             | males.    | females. |                |              | males.                | females.         |                |
| 52          | -         | 1        | 1              | 67           | 4                     | 18               | 22             |
| 53          | 1         | 2        | 3              | 68           | 2                     | 12               | 14             |
| 54          | 1         | 1        | 2              | 69           | -                     | 8                | 8              |
| 55          | 19        | 16       | 35             | 70           | -                     | 2                | 2              |
| 56          | 27        | 14       | 41             | 71           | -                     | 2                | 2              |
| 57          | 24        | 16       | 40             | 72           | -                     | 2                | 2              |
| 58          | 26        | 16       | 42             | Total        | 289                   | 253              | 542            |
| 59          | 30        | 14       | 44             | Average size |                       | Males: 59.9 feet |                |
| 60          | 35        | 13       | 48             |              | Females: 62.0 "       |                  |                |
| 61          | 39        | 12       | 51             |              | Total animals: 60.9 " |                  |                |
| 62          | 32        | 28       | 60             | Per cent     |                       | Males: 53.3      |                |
| 63          | 24        | 18       | 42             |              | Females: 46.7         |                  |                |
| 64          | 16        | 20       | 36             |              |                       |                  |                |
| 65          | 5         | 17       | 22             |              |                       |                  |                |
| 66          | 4         | 21       | 25             |              |                       |                  |                |

## Sei-whales.

| Engl. feet. | Number of |          | Total animals. | Engl. feet.  | Number of             |                  | Total animals. |
|-------------|-----------|----------|----------------|--------------|-----------------------|------------------|----------------|
|             | males.    | females. |                |              | males.                | females.         |                |
| 36          | -         | 1        | 1              | 50           | 6                     | 85               | 91             |
| 37          | 2         | 3        | 5              | 51           | -                     | 56               | 56             |
| 38          | 2         | 2        | 4              | 52           | -                     | 25               | 25             |
| 39          | 3         | 5        | 8              | 53           | -                     | 3                | 3              |
| 40          | 132       | 115      | 247            | 55           | -                     | 1                | 1              |
| 41          | 155       | 110      | 265            | Total        | 1,186                 | 1,233            | 2,419          |
| 42          | 113       | 89       | 202            | Average size |                       | Males: 43.8 feet |                |
| 43          | 134       | 84       | 218            |              | Females: 45.5 "       |                  |                |
| 44          | 149       | 84       | 233            |              | Total animals: 44.7 " |                  |                |
| 45          | 159       | 95       | 254            | Per cent     |                       | Males: 49.0      |                |
| 46          | 153       | 74       | 227            |              | Females: 51.0         |                  |                |
| 47          | 92        | 142      | 234            |              |                       |                  |                |
| 48          | 63        | 134      | 197            |              |                       |                  |                |
| 49          | 23        | 125      | 148            |              |                       |                  |                |

Table No. 6 (continued).

## Bryde-whales.

| Engl. feet. | Number of |          | Total animals. |  |
|-------------|-----------|----------|----------------|--|
|             | males.    | females. |                |  |
| 37          | 1         | —        | 1              |  |
| 40          | 18        | 24       | 42             |  |
| 41          | 17        | 9        | 26             |  |
| 42          | 3         | 6        | 9              |  |
| 43          | 2         | 13       | 15             |  |
| 44          | 1         | 11       | 12             |  |
| 45          | —         | 2        | 2              |  |
| 46          | —         | 1        | 1              |  |
| 47          | —         | 1        | 1              |  |
| Total       | 42        | 67       | 109            |  |

Average size { Males: 40.7 feet  
Females: 41.9 "  
Total animals: 41.4 "

Per cent { Males: 38.5  
Females: 61.5

## Sperm-whales.

| Engl. feet. | Number of |          | Total animals. | Engl. feet. | Number of |          | Total animals. |
|-------------|-----------|----------|----------------|-------------|-----------|----------|----------------|
|             | males.    | females. |                |             | males.    | females. |                |
| 35          | —         | 2        | 2              | 50          | 159       | —        | 159            |
| 36          | 3         | 3        | 6              | 51          | 188       | —        | 188            |
| 37          | 2         | 3        | 5              | 52          | 155       | —        | 155            |
| 38          | 44        | 147      | 191            | 53          | 38        | —        | 38             |
| 39          | 84        | 110      | 194            | 54          | 22        | —        | 22             |
| 40          | 78        | 17       | 95             | 55          | 6         | —        | 6              |
| 41          | 64        | 4        | 68             | Total       | 1,517     | 286      | 1,803          |
| 42          | 65        | —        | 65             |             |           |          |                |
| 43          | 64        | —        | 64             |             |           |          |                |
| 44          | 73        | —        | 73             |             |           |          |                |
| 45          | 62        | —        | 62             |             |           |          |                |
| 46          | 72        | —        | 72             |             |           |          |                |
| 47          | 90        | —        | 90             |             |           |          |                |
| 48          | 91        | —        | 91             |             |           |          |                |
| 49          | 157       | —        | 157            |             |           |          |                |

Average size { Males: 46.9 feet  
Females: 38.5 "  
Total animals: 45.5 "

Per cent { Males: 84.1  
Females: 15.9

## 2. U. S. S. R.

## Fin-whales.

| Engl. feet. | Number of |          | Total animals. | Engl. feet. | Number of |          | Total animals. |
|-------------|-----------|----------|----------------|-------------|-----------|----------|----------------|
|             | males.    | females. |                |             | males.    | females. |                |
| 53          | —         | 1        | 1              | 66          | 5         | 3        | 8              |
| 54          | 1         | —        | 1              | 67          | 1         | 5        | 6              |
| 55          | 3         | 3        | 6              | 68          | 2         | 2        | 4              |
| 56          | 11        | 7        | 18             | 69          | 2         | —        | 2              |
| 57          | 7         | 7        | 14             | 70          | 2         | 1        | 3              |
| 58          | 13        | 10       | 23             | Total       | 99        | 91       | 190            |
| 59          | 14        | 11       | 25             |             |           |          |                |
| 60          | 14        | 15       | 29             |             |           |          |                |
| 61          | 6         | 4        | 10             |             |           |          |                |
| 62          | 6         | 8        | 14             |             |           |          |                |
| 63          | 3         | 4        | 7              |             |           |          |                |
| 64          | 5         | 7        | 12             |             |           |          |                |
| 65          | 4         | 3        | 7              |             |           |          |                |

Average size { Males: 60.2 feet  
Females: 60.6 "  
Total animals: 60.4 "

Per cent { Males: 51.9  
Females: 48.1

Table No. 6 (continued).

## Sei-whales.

| Engl. feet. | Number of |          | Total animals. | Engl. feet.                     | Number of |          | Total animals. |
|-------------|-----------|----------|----------------|---------------------------------|-----------|----------|----------------|
|             | males.    | females. |                |                                 | males.    | females. |                |
| 37          | —         | 1        | 1              | 49                              | 2         | 1        | 3              |
| 38          | 1         | —        | 1              | 50                              | 1         | 1        | 2              |
| 39          | 2         | 2        | 4              | 51                              | 0         | 1        | 1              |
| 40          | 14        | 12       | 26             | Total                           | 138       | 158      | 296            |
| 41          | 16        | 28       | 44             | Average size { Males: 43.6 feet |           |          |                |
| 42          | 19        | 21       | 40             | { Females: 43.3 "               |           |          |                |
| 43          | 11        | 24       | 35             | { Total animals: 43.4 "         |           |          |                |
| 44          | 22        | 24       | 46             | Per cent { Males: 46.6          |           |          |                |
| 45          | 25        | 22       | 47             | { Females: 53.4                 |           |          |                |
| 46          | 10        | 8        | 18             |                                 |           |          |                |
| 47          | 8         | 6        | 14             |                                 |           |          |                |
| 48          | 7         | 7        | 14             |                                 |           |          |                |

## Bryde-whales.

|    |    |    |     |                                 |     |     |     |
|----|----|----|-----|---------------------------------|-----|-----|-----|
| 38 | 2  | —  | 2   | 48                              | 4   | 5   | 9   |
| 39 | 1  | 3  | 4   | 49                              | —   | 1   | 1   |
| 40 | 48 | 53 | 101 | Total                           | 260 | 378 | 638 |
| 41 | 49 | 77 | 126 | Average size { Males: 42.7 feet |     |     |     |
| 42 | 33 | 51 | 84  | { Females: 42.5 "               |     |     |     |
| 43 | 42 | 84 | 126 | { Total animals: 42.6 "         |     |     |     |
| 44 | 24 | 56 | 80  | Per cent { Males: 41.2          |     |     |     |
| 45 | 27 | 33 | 60  | { Females: 58.8                 |     |     |     |
| 46 | 26 | 10 | 36  |                                 |     |     |     |
| 47 | 4  | 5  | 9   |                                 |     |     |     |

## Sperm-whales.

|    |     |     |     |                                 |       |     |       |
|----|-----|-----|-----|---------------------------------|-------|-----|-------|
| 30 | 2   | —   | 2   | 48                              | 186   | —   | 186   |
| 31 | 4   | 4   | 8   | 49                              | 138   | —   | 138   |
| 32 | 5   | 3   | 8   | 50                              | 127   | —   | 127   |
| 33 | 7   | 11  | 18  | 51                              | 71    | —   | 71    |
| 34 | 8   | 9   | 17  | 52                              | 84    | —   | 84    |
| 35 | 9   | 18  | 27  | 53                              | 19    | —   | 19    |
| 36 | 13  | 25  | 38  | 54                              | 4     | —   | 4     |
| 37 | 16  | 25  | 41  | Total                           | 5.052 | 460 | 5.512 |
| 38 | 390 | 189 | 579 | Average size { Males: 42.5 feet |       |     |       |
| 39 | 567 | 168 | 735 | { Females: 37.8 "               |       |     |       |
| 40 | 700 | 8   | 708 | { Total animals: 42.1 "         |       |     |       |
| 41 | 773 | —   | 773 | Per cent { Males: 91.7          |       |     |       |
| 42 | 556 | —   | 556 | { Females: 8.3                  |       |     |       |
| 43 | 406 | —   | 406 |                                 |       |     |       |
| 44 | 310 | —   | 310 |                                 |       |     |       |
| 45 | 269 | —   | 269 |                                 |       |     |       |
| 46 | 228 | —   | 228 |                                 |       |     |       |
| 47 | 160 | —   | 160 |                                 |       |     |       |

Table No. 6 (continued).

## 9. Japan. — Coastal.

## Fin-whales.

| Engl. feet. | Number of |          | Total animals. | Engl. feet.  | Number of        |          | Total animals.        |
|-------------|-----------|----------|----------------|--------------|------------------|----------|-----------------------|
|             | males.    | females. |                |              | males.           | females. |                       |
| 52          | 1         | —        | 1              | 64           | 1                | 1        | 2                     |
| 53          | —         | 2        | 2              | 67           | —                | 1        | 1                     |
| 55          | 3         | 2        | 5              | 69           | —                | 1        | 1                     |
| 56          | 2         | 1        | 3              | Sum          | 33               | 33       | 66                    |
| 57          | 3         | —        | 3              | Average size | Males: 59.0 feet |          | Total animals: 59.6 „ |
| 58          | 4         | 2        | 6              |              | Females: 60.2 „  |          |                       |
| 59          | 3         | 5        | 8              | Per cent     | Males: 50.0      |          | Females: 50.0         |
| 60          | 7         | 4        | 11             |              | Females: 50.0    |          |                       |
| 61          | 4         | 8        | 12             |              |                  |          |                       |
| 62          | 4         | 2        | 6              |              |                  |          |                       |
| 63          | 1         | 4        | 5              |              |                  |          |                       |

## Sei-whales.

|    |    |    |    |              |                  |     |                       |
|----|----|----|----|--------------|------------------|-----|-----------------------|
| 35 | —  | 1  | 1  | 49           | 2                | 6   | 8                     |
| 36 | 4  | 2  | 6  | 50           | 1                | 8   | 9                     |
| 37 | —  | 3  | 3  | 51           | 1                | 1   | 2                     |
| 38 | 5  | —  | 5  | 52           | —                | 2   | 2                     |
| 39 | 7  | 5  | 12 | 53           | —                | 1   | 1                     |
| 40 | 6  | 11 | 17 | Sum          | 134              | 142 | 276                   |
| 41 | 11 | 10 | 21 | Average size | Males: 43.5 feet |     | Total animals: 43.9 „ |
| 42 | 15 | 7  | 22 |              | Females: 44.4 „  |     |                       |
| 43 | 11 | 20 | 31 | Per cent     | Males: 48.6      |     | Females: 51.4         |
| 44 | 19 | 10 | 29 |              | Females: 51.4    |     |                       |
| 45 | 23 | 19 | 42 |              |                  |     |                       |
| 46 | 16 | 11 | 27 |              |                  |     |                       |
| 47 | 7  | 14 | 21 |              |                  |     |                       |
| 48 | 6  | 11 | 17 |              |                  |     |                       |

## Bryde-whales.

|    |    |    |    |              |                  |    |                       |
|----|----|----|----|--------------|------------------|----|-----------------------|
| 35 | 1  | 4  | 5  | 46           | 2                | 5  | 7                     |
| 36 | 3  | 2  | 5  | 47           | —                | 2  | 2                     |
| 37 | 1  | 3  | 4  | 49           | —                | 1  | 1                     |
| 38 | 4  | 2  | 6  | Sum          | 80               | 92 | 172                   |
| 39 | 4  | 7  | 11 | Average size | Males: 41.7 feet |    | Total animals: 41.9 „ |
| 40 | 10 | 2  | 12 |              | Females: 42.0 „  |    |                       |
| 41 | 8  | 13 | 21 | Per cent     | Males: 46.5      |    | Females: 53.5         |
| 42 | 11 | 21 | 32 |              | Females: 53.5    |    |                       |
| 43 | 21 | 8  | 29 |              |                  |    |                       |
| 44 | 12 | 10 | 22 |              |                  |    |                       |
| 45 | 3  | 12 | 15 |              |                  |    |                       |

Table No. 6 (continued).

## Sperm-whales.

| Engl. feet. | Number of |          | Total animals. | Engl. feet.    | Number of  |           | Total animals. |                |
|-------------|-----------|----------|----------------|----------------|------------|-----------|----------------|----------------|
|             | males.    | females. |                |                | males.     | females.  |                |                |
| 33          | 6         | 13       | 19             | 50             | 22         | -         | 22             |                |
| 34          | 3         | 1        | 4              | 51             | 14         | -         | 14             |                |
| 35          | 366       | 918      | 1,284          | 52             | 13         | -         | 13             |                |
| 36          | 327       | 510      | 837            | 53             | 10         | -         | 10             |                |
| 37          | 172       | 138      | 310            | 54             | 2          | -         | 2              |                |
| 38          | 133       | 55       | 188            | 55             | 4          | -         | 4              |                |
| 39          | 141       | 28       | 169            | Sum            | 1,653      | 1,673     | 3,326          |                |
| 40          | 106       | 4        | 110            | Average size { | Males:     | 38.6 feet | }              |                |
| 41          | 100       | 1        | 101            |                |            | Females:  |                | 35.7 "         |
| 42          | 66        | 3        | 69             |                |            |           |                | Total animals: |
| 43          | 57        | 1        | 58             |                | Per cent { | Males:    | 49.7           | }              |
| 44          | 26        | -        | 26             |                |            |           | Females:       |                |
| 45          | 17        | -        | 17             |                |            |           |                |                |
| 46          | 18        | -        | 18             |                |            |           |                |                |
| 47          | 11        | -        | 11             |                |            |           |                |                |
| 48          | 18        | -        | 18             |                |            |           |                |                |
| 49          | 21        | 1        | 22             |                |            |           |                |                |

## 10. Australia. Sperm-whales.

|    |    |    |    |                |            |           |          |                |
|----|----|----|----|----------------|------------|-----------|----------|----------------|
| 32 | 2  | 2  | 4  | 48             | 40         | -         | 40       |                |
| 33 | 1  | 3  | 4  | 49             | 58         | -         | 58       |                |
| 34 | 5  | -  | 5  | 50             | 40         | -         | 40       |                |
| 35 | 18 | 17 | 35 | 51             | 23         | -         | 23       |                |
| 36 | 20 | 10 | 30 | 52             | 13         | -         | 13       |                |
| 37 | 35 | 7  | 42 | 53             | 4          | -         | 4        |                |
| 38 | 36 | 2  | 38 | 54             | 1          | -         | 1        |                |
| 39 | 50 | -  | 50 | Sum            | 819        | 41        | 860      |                |
| 40 | 68 | -  | 68 | Average size { | Males:     | 43.7 feet | }        |                |
| 41 | 48 | -  | 48 |                |            | Females:  |          | 35.4 "         |
| 42 | 49 | -  | 49 |                |            |           |          | Total animals: |
| 43 | 58 | -  | 58 |                | Per cent { | Males:    | 95.2     | }              |
| 44 | 56 | -  | 56 |                |            |           | Females: |                |
| 45 | 62 | -  | 62 |                |            |           |          |                |
| 46 | 54 | -  | 54 |                |            |           |          |                |
| 47 | 78 | -  | 78 |                |            |           |          |                |

## 11. South Atlantic Ocean. Sperm-whales.

|    |     |    |     |                |            |           |          |                |
|----|-----|----|-----|----------------|------------|-----------|----------|----------------|
| 27 | 1   | -  | 1   | 47             | 30         | -         | 30       |                |
| 29 | -   | 1  | 1   | 48             | 18         | -         | 18       |                |
| 31 | -   | 1  | 1   | 49             | 18         | -         | 18       |                |
| 32 | 2   | 6  | 8   | 50             | 15         | -         | 15       |                |
| 33 | 5   | 14 | 19  | 51             | 6          | -         | 6        |                |
| 34 | 7   | 18 | 25  | 52             | 19         | -         | 19       |                |
| 35 | 6   | 24 | 30  | 53             | 13         | -         | 13       |                |
| 36 | 9   | 15 | 24  | 54             | 3          | -         | 3        |                |
| 37 | 17  | 13 | 30  | 55             | 3          | -         | 3        |                |
| 38 | 117 | 19 | 136 | 56             | 1          | -         | 1        |                |
| 39 | 169 | 6  | 175 | 57             | 1          | -         | 1        |                |
| 40 | 152 | -  | 152 | Sum            | 1,108      | 117       | 1,225    |                |
| 41 | 130 | -  | 130 | Average size { | Males:     | 41.8 feet | }        |                |
| 42 | 117 | -  | 117 |                |            | Females:  |          | 35.4 "         |
| 43 | 88  | -  | 88  |                |            |           |          | Total animals: |
| 44 | 72  | -  | 72  |                | Per cent { | Males:    | 90.4     | }              |
| 45 | 49  | -  | 49  |                |            |           | Females: |                |
| 46 | 40  | -  | 40  |                |            |           |          |                |

Table No. 6 (continued).

## 12. Indian Ocean. Sperm-whales.

| Engl. feet. | Number of |          | Total animals. | Engl. feet.  | Number of  |          | Total animals. |
|-------------|-----------|----------|----------------|--------------|--|----------|----------------|
|             | males.    | females. |                |              | males.   | females. |                |
| 28          | 1         | —        | 1              | 45           | 59   | —        | 59             |
| 29          | 1         | 5        | 6              | 46           | 54   | —        | 54             |
| 30          | —         | 5        | 5              | 47           | 51   | —        | 51             |
| 31          | —         | 13       | 13             | 48           | 31   | —        | 31             |
| 32          | 3         | 10       | 13             | 49           | 32   | —        | 32             |
| 33          | 4         | 14       | 18             | 50           | 23   | —        | 23             |
| 34          | 5         | 20       | 25             | 51           | 13   | —        | 13             |
| 35          | 9         | 13       | 22             | 52           | 8  | —        | 8              |
| 36          | 21        | 17       | 38             | 53           | 2  | —        | 2              |
| 37          | 6         | 14       | 20             |              |  |          |                |
| 38          | 241       | 180      | 421            | Sum          | 1,342  | 339      | 1,681          |
| 39          | 221       | 38       | 259            |              |  |          |                |
| 40          | 190       | 6        | 196            | Average size | { Males: 41.4 feet<br>Females: 36.8 "<br>Total animals: 40.5 " |          |                |
| 41          | 145       | 3        | 148            | Per cent     | { Males: 79.8<br>Females: 20.2                                 |          |                |
| 42          | 81        | —        | 81             |              |  |          |                |
| 43          | 77        | 1        | 78             |              |  |          |                |
| 44          | 64        | —        | 64             |              |  |          |                |

## 13. South Pacific Ocean. Sperm-whales.

|    |    |     |     |              |  |     |     |
|----|----|-----|-----|--------------|--|-----|-----|
| 31 | —  | 1   | 1   | 47           | 12   | —   | 12  |
| 32 | —  | 3   | 3   | 48           | 12   | —   | 12  |
| 33 | —  | 4   | 4   | 49           | 15   | —   | 15  |
| 34 | —  | 1   | 1   | 50           | 8  | —   | 8   |
| 35 | 1  | 6   | 7   | 51           | 5  | —   | 5   |
| 36 | 2  | 8   | 10  | 52           | 10   | —   | 10  |
| 37 | 4  | 11  | 15  |              |  |     |     |
| 38 | 47 | 133 | 180 | Sum          | 294  | 341 | 635 |
| 39 | 32 | 109 | 141 |              |  |     |     |
| 40 | 31 | 36  | 67  | Average size | { Males: 42.6 feet<br>Females: 38.6 "<br>Total animals: 40.4 " |     |     |
| 41 | 33 | 18  | 51  | Per cent     | { Males: 46.3<br>Females: 53.7                                 |     |     |
| 42 | 16 | 7   | 23  |              |  |     |     |
| 43 | 22 | 1   | 23  |              |  |     |     |
| 44 | 14 | 3   | 17  |              |  |     |     |
| 45 | 14 | —   | 14  |              |  |     |     |
| 46 | 16 | —   | 16  |              |  |     |     |

**Table No. 7.—Average production of oil per “blue-whale unit”  
in 1971.**

Other whales are reduced to blue-whale equivalents on the following basis:  
1 blue-whale = 2 fin-whales = 2½ humpbacks = 6 sei-whales = 2 grey-whales =  
6 Bryde-whales.

| Geographical areas.                 | Company.     | Blue-whale<br>equivalents. | Oil production.        |  |
|-------------------------------------|--------------|----------------------------|------------------------|--|
|                                     |              |                            | Total.                 | Average<br>per blue-whale<br>equivalent. |
|                                     |              |                            | Barrels. <sup>1)</sup> | Barrels. <sup>1)</sup>                   |
| <i>North Atlantic and Arctic: —</i> |              |                            |                        |  |
| Norway .....                        | No. 1        | 18.5                       | 1,140                  | 61.6                                     |
| Iceland .....                       | „ 1          | 144.0                      | 11,331                 | 78.7                                     |
| Newfoundland .....                  | „ 1          | 62.5                       | 4,106                  | 65.7                                     |
|                                     | „ 2          | 94.4                       | 5,073                  | 53.7                                     |
| Nova Scotia .....                   | „ 1          | 99.3                       | 8,098                  | 81.6                                     |
|                                     | <b>Total</b> | <b>418.7</b>               | <b>29,748</b>          | <b>71.1</b>                              |
| <i>Pacific North:—</i>              |              |                            |                        |  |
| California .....                    | No 1         | 2.3                        | 197                    | 85.6                                     |
| Pelagic.....                        | „ 1          | 228.0                      | 18,677                 | 81.9                                     |
|                                     | „ 2          | 213.1                      | 17,177                 | 80.6                                     |
|                                     | „ 3          | 251.3                      | 20,329                 | 80.9                                     |
|                                     | „ 4          | 108.0                      | 6,912                  | 64.0                                     |
|                                     | „ 5          | 142.7                      | 7,952                  | 55.7                                     |
| Japan, coastal .....                | „ 1          | 19.7                       | 1,177                  | 59.7                                     |
|                                     | „ 2          | 22.5                       | 1,125                  | 50.0                                     |
|                                     | „ 3          | 34.2                       | 1,171                  | 34.2                                     |
|                                     | „ 4          | 24.8                       | 1,600                  | 64.5                                     |
|                                     | „ 5          | 6.5                        | 311                    | 47.8                                     |
|                                     | <b>Total</b> | <b>1,053.1</b>             | <b>76,628</b>          | <b>72.8</b>                              |

<sup>1)</sup> Barrel = 170 kg. (Barrel = abt. ¼ long ton, 1 long ton = 1,016 kg.)

**Table No. 8.—Average production of oil per sperm-whale  
in 1971.**

| Geographical areas.                       | Company. | Number of sperm-whales. | Oil production.       |                          |
|---|----------|-------------------------|-----------------------|--------------------------|
|   |          |                         | Total.                | Average per sperm-whale. |
| <i>Africa:—</i>                           |          |                         | Barrels <sup>1)</sup> | Barrels <sup>1)</sup>    |
| Natal .....                               | No. 1    | 2,068                   | 42,624                | 20.6                     |
| <i>Brazil:—</i> .....                     | No. 1    | 55                      | 862                   | 15.7                     |
| <i>North Atlantic and Arctic:—</i>        |          |                         |                       |                          |
| Norway .....                              | No. 1    | 62                      | 3,117                 | 50.2                     |
| Iceland .....                             | " 1      | 106                     | 5,532                 | 52.2                     |
| Nova Scotia .....                         | " 1      | 37                      | 1,853                 | 50.1                     |
| Total                                     |          | 205                     | 10,502                | 51.2                     |
| <i>Pacific North:—</i>                    |          |                         |                       |                          |
| California .....                          | No. 1    | 47                      | 918                   | 19.5                     |
| Pelagic .....                             | " 1      | 602                     | 32,588                | 54.1                     |
|   | " 2      | 428                     | 24,388                | 57.0                     |
|   | " 3      | 773                     | 32,412                | 41.9                     |
|   | " 4      | 2,730                   | 108,176               | 39.6                     |
|   | " 5      | 2,795                   | 108,706               | 38.9                     |
| Japan, costal .....                       | " 1      | 794                     | 17,150                | 21.6                     |
|   | " 2      | 774                     | 15,790                | 20.4                     |
|   | " 3      | 794                     | 19,516                | 24.6                     |
|   | " 4      | 592                     | 9,548                 | 16.1                     |
|   | " 5      | 374                     | 6,144                 | 16.4                     |
| Total                                     |          | 10,703                  | 375,336               | 35.1                     |
| <i>Australia</i> .....                    | No. 1    | 860                     | 34,894                | 40.6                     |
| <i>South Atlantic Ocean, pelagic</i> .... | No. 1    | 127                     | 2,791                 | 22.0                     |
|   | " 2      | 822                     | 23,410                | 28.5                     |
|   | " 3      | 276                     | 9,046                 | 32.8                     |
| Total                                     |          | 1,225                   | 35,247                | 28.8                     |
| <i>Indian Ocean, pelagic</i> .....        | No. 1    | 493                     | 13,847                | 28.1                     |
|   | " 2      | 762                     | 20,744                | 27.2                     |
|   | " 3      | 250                     | 7,177                 | 28.7                     |
|   | " 4      | 176                     | 4,375                 | 24.9                     |
|   | " 5      | 434                     | 10,789                | 24.9                     |
|   | " 6      | 201                     | 7,774                 | 38.7                     |
| Total                                     |          | 2,316                   | 64,706                | 27.9                     |

<sup>1)</sup> Barrel = 170 kg. (Barrel = abt.  $\frac{1}{8}$  long ton, 1 long ton = 1,016 kg.)



