

DET NORSKE HVALRÅDS STATISTISKE PUBLIKASJONER

INTERNATIONAL WHALING STATISTICS

LIV

EDITED BY
THE COMMITTEE FOR WHALING STATISTICS



OSLO 1965

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CONTENTS

Preface	Page	5
Introduction	„	7
Table No. 1.—Whaling in the Antarctic in the season 1963/64	„	39
Table No. 2.—Whaling results for the various countries in the Antarctic in the season 1963/64.....	„	39
Table No. 3.—Average size of whales caught in the Antarctic in the season 1963/64.....	„	40
Table No. 4.—Whales caught in the season 1963/64 in the Antarctic, by species, sex and size	„	42
Table No. 5.—Whales caught in the season 1963/64 in the Antarctic, by species, sex and groups of size	„	46
Table No. 6.—Average production of oil per blue-whale unit in the Antarctic in the season 1963/64	„	48
Table No. 7.—Size of pregnant whale females caught in the Antarctic in the season 1963/64.....	„	48
Table No. 8.—Whale fetuses measured in the Antarctic in the season 1963/64, by species and groups of size, in each month	„	49
Table No. 9.—Whale fetuses measured in the Antarctic in the season 1963/64, by species and sex, in each month	„	51

PREFACE

The present publication, International Whaling Statistics No. LIV, embraces the results of the Antarctic whaling during the season 1963-64.

The statistical data in this publication are based on the reports sent in to the Bureau of International Whaling Statistics, Sandefjord.

Oslo, December 1964.

Gunnar Jahn.

Birger Bergersen.

Einar Vangstein.

INTRODUCTION

Regulative provisions.

In 1958 negotiations were initiated between Japan, Norway, U.S.S.R., U.K. and the Netherlands concerning an agreement for apportionment of the maximum catch, which at any time is in force according to decision of the International Whaling Commission. In 1962 the said countries came to an understanding on such an agreement, the so-called quota agreement. The quota agreement, which has been ratified by the governments of the respective countries, holds good until and including the 1965-66 season.

At the meeting of the Whaling Commission in 1963 the maximum catch for the pelagic expeditions in the Antarctic was reduced from 15,000 blue-whale units to 10,000 blue-whale units.

In accordance with the quota agreement the transfer of quotas from one country to another is permitted in connection with the sale of factory ships. One Norwegian and two British factory ships were sold to Japan, and an adjustment of the quotas of the said countries was effected at the same time. As a result of these adjustments the quota distribution in the season 1963-64 was as follows:

Japan	46 per cent =	4,600 blue-whale units	
Norway	28 —»— =	2,800	—»—
U.S.S.R.	20 —»— =	2,000	—»—
Netherlands	6 —»— =	600	—»—

Total

100 per cent =	10,000 blue-whale units
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At the same meeting the Commission resolved that the blue-whale should be protected in all whaling grounds in the Antarctic, except the area between 40°-55° South Latitude and 0°-80° East Longitude. The area in which there was no protection, was the one mainly inhabited by a race known as the Pygmy blue-whale. The Commission also accorded complete protection to the humpback whale in the waters south of the Equator, as this species, like the blue-whale, was seriously depleted.

With these exceptions the regulative provisions in the 1963-64 season were the same as in the previous season.

Below is given the most important regulations governing the pelagic whaling in the last season:

- 1) The open season for the taking of fin- and sei-whales was from December 12th to April 7th, both days inclusive.
- 2) The open season for the taking of blue-whales was from February 1st to April 7th, both days inclusive, in the waters between 40°–55° South Latitude and from 0° eastwards to 80° East Longitude. In the other areas of the Antarctic the blue-whales were protected.
- 3) The open season for sperm-whales was 8 months.
- 4) It was forbidden to take:

Blue-whales	under 70 feet
Fin-whales	» 57 »
Sei-whales	» 40 »
Sperm-whales	» 38 »

Further it was forbidden to kill humpback whales, right-whales, grey-whales, and female whales accompanied by a calf.

- 5) The number of baleen whales taken during the open season in any waters south of 40° South Latitude by whale catchers attached to factory ships was not to exceed 10,000 blue-whale units in the 1963–64 season. (One blue-whale unit is reckoned as 1 blue-whale or 2 fin-whales or 6 seiwhales.)

The land stations on South Georgia were allowed a 6 months' consecutive catching period, and were otherwise subject to the same provisions as stated in paragraphs 2, 3 and 4, except that the minimum size limit for sperm-whales was 35 feet.

Whaling period.

All the expeditions commenced the catch of fin- and sei-whales on December 12th 1963 (except one Japanese factory ship, which caught mostly sperm-whales. This factory ship, which had a quota of about 100 blue-whale units, commenced the baleen whale catch on January 8th, and ceased on February 29th 1964.) The Japanese and Russian expeditions ceased the operations gradually as the stipulated quotas were reached. The first Japanese factory ship ceased operations on March 11th and the last on April 7th 1964. The first Russian factory ship ceased on April 4th and the last on April 6th 1964. The other factory ships, which did not reach the stipulated quotas, ceased operations on April 7th — the latest closing date according to the provisions of the Convention.

The whaling period and number of catching days for the pelagic baleen whaling operations in the seasons as from 1945-46 will be seen from the survey below:

Season	Whaling period	Catching days
1945-46	November 24th-March 24th	121
1946-47	December 8th-April 7th	121
1947-48	December 8th-March 31st	115
1948-49	December 15th-March 26th	102
1949-50	December 22nd-March 15th	84
1950-51	December 22nd-March 9th	78
1951-52	January 2nd-March 5th	64
1952-53	January 2nd-March 16th	74
1953-54	January 2nd-March 18th	76
1954-55	January 7th-March 19th	72
1955-56	January 7th-March 4th	58
1956-57	January 7th-March 16th	69
1957-58	January 7th-March 16th	69
1958-59	January 7th-March 16th	69
1959-60	December 28th-April 7th	102
1960-61	December 28th-April 7th	101
1961-62	December 12th-April 7th	117
1962-63	December 12th-April 7th	117
1963-64	December 12th-April 7th	118

In the last five seasons some of the expeditions closed their operations on an earlier date. The average catching period was therefore: In 1959-60 99 days, in 1960-61 96 days, in 1961-62 115 days, in 1962-63 111 days and in 1963-64 also 111 days.

The whaling period for blue-whales was until and including the season 1952-53 the same as the period for fin-whales. From and including the season 1953-54 the whaling period and the number of catching days for blue-whales have been as follows: —

Season	Whaling period	Catching days
1953-54	January 16th-March 18th	62
1954-55	January 21st-March 19th	58
1955-56	February 1st-March 4th	33
1956-57	February 1st-March 16th	44
1957-58	February 1st-March 16th	44
1958-59	February 1st-March 16th	44
1959-60	February 1st-April 7th	67
1960-61	February 1st-April 7th	66
1961-62	February 1st-April 7th	66
1962-63	February 1st-April 7th	66
1963-64	February 1st-April 7th	67

Weekly catch in blue-whale units.

The weekly catch of the last three seasons, based on the telegraphic reports from the whaling grounds, are recorded in table *a*, page 11. When considering the heavy decline in the catch, converted into blue-whale units, towards the end of these seasons, it must be taken into account that some of the expeditions terminated their operations during the period from March 11th to April 6th.

Whaling matériel.

During the Antarctic season 1963-64, 16 floating factories with a total of 190 catchers were in operation. This was one floating factory and 11 catchers less than in the 1962-63 season. A British factory ship, which in 1963 was sold to Japan, was not used in the Antarctic in the season 1963-64. With this exception the same pelagic expeditions participated in the operations in 1963-64 as in 1962-63.

The number of floating factories and catchers operated by the respective countries during the last three seasons were as follows:

Countries	Season 1961-62		Season 1962-63		Season 1963-64	
	Floating factories	Catchers	Floating factories	Catchers	Floating factories	Catchers
Norway	7	71	4	32	4	33
United Kingdom	2	22	1	9	—	—
Netherlands	1	15	1	11	1	11
Japan	7	86	7	79	7	78
U. S. S. R.	4	67	4	70	4	68
Total	21	261	17	201	16	190

Further, Japanese companies operated in the season 1963-64 from two shore stations on South Georgia with a total of 16 catchers. (11 of these catchers operated also with the pelagic expeditions.) One of the stations was only operating during the period October 7th to December 2nd 1963. In 1962-63 no whaling was carried on from South Georgia. Otherwise, whaling has been carried on from this Island ever since the Antarctic whaling commenced in 1904-05.

Table *b*, page 11, gives the number of floating factories and catchers engaged in pelagic whaling since the season 1945-46. The table also shows the average gross tonnage of the floating factories and the average tonnage and engine power of the catchers.

As will be seen from this table the average gross tonnage of the floating factories increased from 19,352 gross tons in 1961-62 to 20,858 in 1962-63 and 21,196 gross tons in 1963-64.

**Table a.—Weekly catch of whales in blue-whale units,
according to telegraphic reports from the whaling grounds.**

Season 1961—62.		Season 1962—63.		Season 1963—64.	
Week ending	Number of blue-whale units	Week ending	Number of blue-whale units	Week ending	Number of blue-whale units
$12/12$ — $23/12$	1,483	$12/12$ — $22/12$	1,114	$12/12$ — $21/12$	844
$30/12$	541	$29/12$	523	$28/12$	478
$6/1$	796	$5/1$	758	$4/1$	400
$13/1$	1,190	$12/1$	555	$11/1$	623
$20/1$	962	$19/1$	664	$18/1$	792
$27/1$	1,134	$26/1$	729	$25/1$	527
$3/2$	1,187	$2/2$	998	$1/2$	543
$10/2$	1,271	$9/2$	782	$8/2$	676
$17/2$	1,142	$16/2$	881	$15/2$	650
$24/2$	803	$23/2$	917	$22/2$	468
$3/3$	833	$2/3$	717	$29/2$	685
$10/3$	860	$9/3$	718	$7/3$	565
$17/3$	884	$16/3$	556	$14/3$	469
$24/3$	1,406	$23/3$	582	$21/3$	337
$31/3$	478	$30/3$	406	$28/3$	202
$7/4$	272	$7/4$	401	$7/4$	166
Total $12/12$ — $7/4$ (117 days)	15,242	Total $12/12$ — $7/4$ (117 days)	11,301	Total $12/12$ — $7/4$ (118 days)	8,425

Table b.—Number and gross tonnage of floating factories and catchers engaged in pelagic whaling in the Antarctic 1945/46—1963/64.

Seasons	Floating factories			Catchers			
	Number	Gross tonnage	Average gross tonnage per fl. factory	Number	Gross tonnage	Average per catcher of:	
						Gross tonnage	I.H.P.
1945-46....	9	123,499	13,722	77	24,326	316	1,190
1946-47....	15	198,179	13,212	129	42,307	328	1,233
1947-48....	17	234,759	13,809	162	56,156	347	1,302
1948-49....	18	254,406	14,134	191	76,272	399	1,501
1949-50....	18	257,112	14,284	216	91,499	424	1,582
1950-51....	19	271,646	14,297	239	108,493	454	1,705
1951-52 ¹⁾ ..	19	289,120	15,217	263	124,374	473	1,774
1952-53....	16	238,448	14,903	230	113,608	494	1,862
1953-54....	17	261,898	15,406	206	102,525	498	1,874
1954-55....	19	286,205	15,063	233	119,011	511	1,933
1955-56....	19	305,765	16,093	257	131,881	513	1,945
1956-57....	20	320,268	16,013	225	122,569	545	2,073
1957-58....	20	321,656	16,083	237	135,024	570	2,190
1958-59....	20	329,136	16,457	235	140,755	599	2,390
1959-60....	20	357,574	17,879	220	139,266	633	2,557
1960-61....	21	378,835	18,040	252	161,808	642	2,614
1961-62....	21	406,402	19,352	261	170,870	657	2,723
1962-63....	17	354,581	20,858	201	141,327	703	2,957
1963-64....	16	339,132	21,196	190	134,751	709	3,011

¹⁾ Excl. fl.f. "Baikal Maru" with 5 catchers. Catch of sperm-whales only.

The average engine power of the catchers increased from 2,723 I.H.P. in 1961-62 to 2,957 and 3,011 I.H.P. in 1962-63 and 1963-64, chiefly due to the fact that the catchers withdrawn from the operations were generally the smallest boats.

From the survey below will be seen the number of floating factories, the number of catchers and the average number of catchers engaged per floating factory from and including the season 1945-46.

Season	Number of floating factories	Number of catchers	Average number of catchers per floating factory
1945-46	9	77	8.6
1946-47	15	129	8.6
1947-48	17	162	9.5
1948-49	18	191	10.6
1949-50	18	216	12.0
1950-51	19	239	12.6
1951-52	19	263	13.8
1952-53	16	230	14.4
1953-54	17	206	12.1
1954-55	19	233	12.3
1955-56	19	257	13.5
1956-57	20	225	11.3
1957-58	20	237	11.9
1958-59	20	235	11.8
1959-60	20	220	11.0
1960-61	21	252	12.0
1961-62	21	261	12.4
1962-63	17	201	11.8
1963-64	16	190	11.9

The following survey shows the average number of catchers per floating factory specified for each country during the last three seasons:

Countries	Average number of catchers per floating factory		
	Season 1961-62	Season 1962-63	Season 1963-64
Norway	10.1	8.0	8.3
United Kingdom	11.0	9.0	—
Netherlands	15.0	11.0	11.0
Japan	12.3	11.3	11.1
U.S.S.R.	16.8	17.5	17.0
Total	12.4	11.8	11.9

Whaling results.

During the season 1963-64 the pelagic expeditions caught in all 28,921 whales in the Antarctic, of which 59 were lost. Thus the number of whales actually processed was 28,862, as will be seen from the survey below:

Species of whales	Whales captured	Lost whales	Processed whales
Blue-whales	112	—	112
Fin-whales	13,870	17	13,853
Humpbacks	2	—	2
Sei-whales	8,286	30	8,256
Total baleen whales	22,270	47	22,223
Sperm-whales	6,651	12	6,639
Total of whales	28,921	59	28,862

The pelagically caught baleen whales converted into blue-whale units amounted to 8,429 units in the season 1963-64 as compared with 11,306 units in 1962-63. The survey below shows the total catch in blue-whale units and the agreed maximum catch from and including the season 1947-48:

Season	Catch in blue-whale units	Agreed maximum quota Blue-whale units
1947-48	16,364.3	16,000
1948-49	16,007.4	16,000
1949-50	16,062.1	16,000
1950-51	16,416.2	16,000
1951-52	16,007.7	16,000
1952-53	14,866.6	16,000
1953-54	15,456.4	15,500
1954-55	15,323.5	15,500
1955-56	14,874.3	15,000
1956-57	14,745.2	14,500
1957-58	14,850.9	14,500
1958-59	15,300.8	15,000
1959-60	15,511.7	15,000
1960-61	16,433.5	¹⁾ —
1961-62	15,252.6	¹⁾ —
1962-63	11,306.1	15,000
1963-64	8,429.0	10,000

¹⁾ No maximum quota.

In 1963-64 the pelagic expeditions processed 8,415.5 blue-whale units yielding 1,026,346 barrels of whale-oil, and 6,639 sperm-whales yielding 273,130 barrels of sperm-oil.

The catch in blue-whale units in the season 1963-64 apportioned between the individual countries was as follows:

Countries	Catch 1963-64 in blue-whale units
Japan	4,600.1
U.S.S.R.	2,001.1
Norway	1,484.5
Netherlands	343.3
<hr/>	
Total	8,429.0

In addition Japan was operating from two shore stations on South Georgia and had a catch resulting in 344.2 blue-whale units.

The total whaling results in the Antarctic from 1945-46 up to and including 1963-64 are given in table c, page 15. In table d, page 15, the pelagic results during the same period have been recorded separately.

As will appear from table d the catch of blue-whales in 1963-64 amounted to 112 only, which is the lowest catch of blue-whales ever recorded in the pelagic whaling in the Antarctic. One must be aware of the fact, however, that the blue-whales in 1963-64 were given total protection in the Antarctic, except in the waters north of 55° South and between 0° and 80° East.

The number of fin-whales killed in 1963-64 amounted to 13,870, or 4,798 fewer than in 1962-63 and 12,568 fewer than in 1961-62. During the seasons 1953/54-1961/62 the pelagic catch of fin-whales varied between 25,000 and 27,400 animals.

The catch of sei-whales reached a new record figure of 8,286 animals or 2,783 more than in the previous season.

Of sperm-whales a total of 6,651 animals was caught by the pelagic expeditions in the Antarctic in the season 1963-64, as compared with 4,771 sperm in the 1962-63 season. In addition the pelagic expeditions on voyage to and from the Antarctic caught north of 40° South lat. approximately 3,600 sperm-whales in 1963-64 against approximately 1,000 in the preceding season.

Table e, page 16, gives i.a. the average daily production of whale oil per floating factory as well as per catcher. The average daily production per floating factory in 1963-64 amounted to 611 barrels as against 689 and 744 barrels in the two previous seasons. During the seasons 1949/50-1958/59 the corresponding figures have varied between 1,266 and 1,690 barrels whale oil.

The average daily production of whale oil per catcher in 1963-64 was only 51 barrels, which is the lowest result ever recorded in pelagic whaling. During the seasons 1949/50-1958/59 the average daily production per catcher varied between 103 and 126 barrels.

Table c.—Total whaling in the Antarctic.

Years.	Species of whales caught.						Total of whales.	Oil production.	Expeditions.			Number of whales per boat.
	Blue.	Fin.	Hump-back.	Sel.	Sperm.	Others.			Shore stations.	Float-ing fac-tories.	Catch-ers.	
1945-46	3,606	9,185	238	85	273	—	13,387	Barrels. 818,652	3	9	93	144
1946-47	9,192	14,547	29	393	1,431	¹⁾ 1	25,593	1,939,742	3	15	147	174
1947-48	6,908	21,141	26	621	2,622	—	31,318	2,104,051	3	17	183	171
1948-49	7,625	19,123	31	578	4,078	—	31,435	2,219,621	3	18	212	148
1949-50	6,182	20,060	2,143	1,284	2,727	—	32,396	2,166,489	3	18	237	137
1950-51	7,048	19,456	1,638	886	4,968	²⁾ 1	33,997	2,303,690	3	19	260	131
1951-52	5,130	22,527	1,556	530	5,485	³⁾ 9	35,237	2,479,180	3	20	289	122
1952-53	3,870	22,867	963	621	2,332	—	30,653	2,118,097	3	16	251	122
1953-54	2,697	27,659	605	1,029	2,879	³⁾ 3	34,872	2,285,720	3	17	227	154
1954-55	2,176	28,624	495	569	5,790	—	37,654	2,242,555	3	19	254	148
1955-56	1,614	27,958	1,432	560	6,974	³⁾ 42	38,580	2,307,171	3	19	278	139
1956-57	1,512	27,757	679	1,692	4,429	³⁾ 46	36,115	2,246,922	3	20	246	147
1957-58	1,690	27,473	396	3,309	6,535	³⁾ 493	39,896	2,317,638	2	20	257	155
1958-59	1,192	27,128	2,394	2,421	5,652	³⁾ 103	38,890	2,152,659	3	20	256	152
1959-60	1,239	27,575	1,338	4,309	4,227	³⁾ 204	38,892	2,148,438	3	20	241	161
1960-61	1,744	28,761	718	5,102	4,800	⁴⁾ 164	41,289	2,232,884	3	21	268	154
1961-62	1,118	27,099	309	5,196	4,829	⁵⁾ 4	38,555	2,051,776	1	21	269	143
1962-63	947	18,668	270	5,503	4,771	⁶⁾ 23	30,182	1,495,779	—	17	201	150
1963-64	112	14,422	2	8,695	6,711	³⁾ 101	30,043	1,340,758	2	16	194	155

¹⁾ Right-whale. ²⁾ Bottlenose. ³⁾ Minke-whales. ⁴⁾ 2 right-whales and 162 Minke-whales. ⁵⁾ 1 right-whale, 2 Minke-whales and 1 Baird's beaked whale. ⁶⁾ 21 Minke-whales and 2 bottlenoses.

Table d.—Pelagic whaling in the Antarctic.

Years.	Species of whales caught.						Total of whales.	Oil production.	Expeditions.			Number of whales per boat.
	Blue.	Fin.	Hump-back.	Sel.	Sperm.	Others.			Shore stations.	Float-ing fac-tories.	Catch-ers.	
1945-46	3,526	7,729	—	3	216	—	11,474	Barrels. 739,775	—	9	77	149
1946-47	8,865	12,877	1	2	1,298	—	23,043	1,794,424	—	15	129	175
1947-48	6,862	18,999	2	12	2,494	—	28,369	1,940,653	—	17	162	149
1948-49	7,399	17,201	13	16	3,865	—	28,494	2,047,427	—	18	191	179
1949-50	6,168	18,061	2,117	101	2,570	—	29,017	2,019,368	—	18	216	134
1950-51	6,966	17,474	1,630	367	4,742	¹⁾ 1	31,180	2,152,498	—	19	239	130
1951-52	5,124	20,520	1,546	32	5,344	²⁾ 9	32,575	2,334,805	—	20	268	122
1952-53	3,866	21,197	954	123	2,185	—	28,325	1,998,094	—	16	230	123
1953-54	2,684	24,986	594	251	2,700	²⁾ 3	31,218	2,100,884	—	17	206	152
1954-55	2,163	25,878	493	146	5,708	—	34,388	2,061,789	—	19	233	148
1955-56	1,611	25,289	1,432	276	6,881	²⁾ 42	35,531	2,134,808	—	19	257	138
1956-57	1,505	25,700	679	712	4,345	²⁾ 46	32,987	2,098,854	—	20	225	147
1957-58	1,684	25,222	396	2,385	6,310	²⁾ 493	36,490	2,146,206	—	20	237	154
1958-59	1,191	25,837	2,394	1,402	5,437	²⁾ 103	36,364	2,050,241	—	20	235	155
1959-60	1,230	26,415	1,338	3,234	4,138	²⁾ 204	36,559	2,050,892	—	20	220	166
1960-61	1,740	27,374	718	4,310	4,666	³⁾ 164	38,972	2,123,157	—	21	252	155
1961-62	1,118	26,438	309	4,749	4,743	⁴⁾ 4	37,361	2,001,961	—	21	261	143
1962-63	947	18,668	270	5,503	4,771	⁵⁾ 23	30,182	1,495,779	—	17	201	150
1963-64	112	13,870	2	8,286	6,651	²⁾ 101	29,022	1,299,476	—	16	190	153

¹⁾ Bottlenose. ²⁾ Minke-whales. ³⁾ 2 right-whales and 162 Minke-whales. ⁴⁾ 1 right-whale, 2 Minke-whales and 1 Baird's beaked whale. ⁵⁾ 21 Minke-whales and 2 bottlenoses.

Table e.—Average production per floating factory and catcher in the pelagic whaling in Antarctic 1946/47—1963/64.

I. Floating factories:

Seasons.	Total production of whale oil.	Total number of fl. fact.	Average production per fl. fact.	Catching days.		Total production per day for the whole fleet.	Average production per floating factory's day-work.
				Total.	Average.		
	Barrels.		Barrels.			Barrels.	Barrels.
1946-47	1,728,370	15	115,225	1,667	111	15,571	1,037
1947-48	1,809,560	17	106,445	1,914	113	16,014	945
1948-49	1,844,867	18	102,493	1,818	101	18,266	1,015
1949-50	1,888,968	18	104,943	1,492	83	22,759	1,266
1950-51	1,909,640	19	100,507	1,471	77	24,801	1,298
1951-52	2,054,853	19	108,150	1,216	64	32,107	1,690
1952-53	1,884,207	16	117,763	1,184	74	25,462	1,591
1953-54	1,964,994	17	115,588	1,292	76	25,855	1,521
1954-55	1,780,067	19	93,688	1,356	71	25,071	1,313
1955-56	1,797,069	19	94,583	1,104	58	30,984	1,628
1956-57	1,883,961	20	94,198	1,371	69	27,304	1,374
1957-58	1,845,147	20	92,257	1,381	69	26,741	1,336
1958-59	1,798,447	20	89,922	1,385	69	26,064	1,299
1959-60	1,859,375	20	92,969	1,973	99	18,782	942
1960-61	1,915,118	21	91,196	2,004	95	20,159	956
1961-62	1,797,178	21	85,580	2,415	115	15,628	744
1962-63	1,293,491	17	76,088	1,878	110	11,759	689
1963-64 ¹⁾	1,016,670	15	67,778	1,663	111	9,159	611

II. Catchers:

Seasons.	Total production of whale oil.	Total number of catchers.	Average production per catcher.	Catching days.		Average oil production per catcher's day-work.	Average number of whales caught ²⁾ per catcher's day-work
				Total.	Average per catcher.		
	Barrels.		Barrels.			Barrels.	
1946-47....	1,728,370	129	13,398	14,414	112	120	1.51
1947-48....	1,809,560	162	11,170	17,747	110	102	1.46
1948-49....	1,844,867	191	9,659	18,902	99	98	1.30
1949-50....	1,888,968	216	8,745	18,128	84	104	1.46
1950-51....	1,909,640	239	7,990	18,554	78	103	1.42
1951-52....	2,054,853	263	7,813	16,902	64	122	1.61
1952-53....	1,884,207	230	8,192	17,101	74	110	1.53
1953-54....	1,964,994	206	9,539	15,630	76	126	1.82
1954-55....	1,780,067	235	7,640	16,619	71	107	1.73
1955-56....	1,797,069	257	6,992	14,893	58	121	1.92
1956-57....	1,883,961	225	8,373	15,429	69	122	1.85
1957-58....	1,845,147	237	7,785	16,344	69	113	1.82
1958-59....	1,798,447	235	7,653	16,275	69	111	1.89
1959-60....	1,859,375	220	8,452	21,356	97	87	1.52
1960-61....	1,915,118	252	7,600	23,998	95	80	1.42
1961-62....	1,797,178	261	6,886	29,952	115	60	1.09
1962-63....	1,293,491	201	6,435	22,504	112	57	1.13
1963-64 ¹⁾ ..	1,016,670	180	5,646	19,876	110	51	1.13

¹⁾ Excl. one expedition, which mostly caught sperm-whales. ²⁾ Not including sperm-whales.

Table f, page 17, illustrates the relation between the various species of whales killed in pelagic operations in the Antarctic from 1945-46. During the last season 1963-64 only 0.4 per cent of the total number of whales

Table f.—Whales caught in the pelagic whaling. Percentage figures.

Years.	Species of whales caught.					
	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Total.
	Per cent.	Per cent.	Per cent.	Per cent.	Per cent.	Per cent.
1945-46.....	30.7	67.4	—	—	1.9	100
1946-47.....	38.5	55.9	—	—	5.6	100
1947-48.....	24.2	67.0	—	—	8.8	100
1948-49.....	26.0	60.4	—	—	13.6	100
1949-50.....	21.3	62.2	7.3	0.3	8.9	100
1950-51.....	22.3	56.1	5.2	1.2	15.2	100
1951-52.....	15.7	63.0	4.8	0.1	16.4	100
1952-53.....	13.7	74.8	3.4	0.4	7.7	100
1953-54.....	8.6	80.0	1.9	0.8	8.7	100
1954-55.....	6.3	75.3	1.4	0.4	16.6	100
1955-56.....	4.5	71.3	4.0	0.8	19.4	100
1956-57.....	4.6	78.0	2.0	2.2	13.2	100
1957-58.....	4.7	70.1	1.1	6.6	17.5	100
1958-59.....	3.3	71.2	6.6	3.9	15.0	100
1959-60.....	3.4	72.6	3.7	8.9	11.4	100
1960-61.....	4.5	70.5	1.9	11.1	12.0	100
1961-62.....	3.0	70.8	0.8	12.7	12.7	100
1962-63.....	3.1	61.9	0.9	18.3	15.8	100
1963-64.....	0.4	48.0	—	28.6	23.0	100

killed were blue-whales, as against 3 per cent in each of the two preceding seasons. As mentioned above the blue-whale, however, had been given total protection in most of the Antarctic waters in 1963-64. The fin-whale catch in 1963-64 represented only 48 per cent compared with 62 per cent and 71 per cent during the two preceding seasons. On the other hand the sei-whale catch increased from about 18 per cent in 1962-63 to about 29 per cent in the last season, while the sperm-whale catch at the same time increased from 16 to 23 per cent.

In tables g and h, pages 18 and 19, the monthly catch of the various species of whales is recorded in absolute and percentage figures for a series of years.

From the survey below will be seen that the whaling operations in the Antarctic in later years have been carried on farther north than earlier:

Catch between each 10 degrees latitude in the Antarctic:

	Catch in blue-whale units					
	Season 1938/39	Season 1948/49	Season 1958/59	Season 1961/62	Season 1962/63	Season 1963/64
40°—50° South Lat.	—	—	—	1,031	2,746	1,543
50°—60° » »	4,709	3,703	5,299	9,187	5,560	6,124
60°—70° » »	19,223	12,114	9,194	4,947	2,972	781
70°—80° » »	—	103	741	63	28	—
Total	23,932	15,920	15,234	15,228	11,306	8,448

Table g.—Antarctic, pelagic whaling. Catch by months in absolute figures.

Species of whales, and seasons.	Nov.	Dec.	Jan.	Feb.	March.	April.	Total.	The Whaling Statistics' total figures	
<i>Total a. 'mals.</i>	1954-55..	424	3,480	12,842	11,401	5,914	—	34,061	34,388
	1955-56..	665	4,183	13,813	14,750	1,846	—	35,257	35,489
	1956-57..	373	2,753	11,483	14,000	4,114	—	32,723	32,941
	1957-58..	1,259	3,669	11,428	11,886	7,575	—	35,817	35,997
	1958-59..	731	3,477	12,628	12,800	6,453	—	36,089	36,261
	1959-60..	359	4,464	12,917	10,710	6,584	1,144	36,178	36,355
	1960-61..	1,086	4,104	12,445	11,491	8,559	996	38,681	38,808
	1961-62..	1,356	5,431	10,135	9,458	9,857	985	37,222	37,357
	1962-63..	1,307	4,988	7,805	8,499	6,223	1,267	30,089	30,159
1963-64..	1,158	4,534	8,874	7,840	5,331	1,125	28,862	28,921	
<i>Blue- whales.</i>	1954-55..	—	—	645	965	544	—	2,154	2,163
	1955-56..	—	1	1	1,503	106	—	1,611	1,611
	1956-57..	—	1	1	1,178	325	—	1,505	1,505
	1957-58..	—	1	1	1,476	205	—	1,683	1,684
	1958-59..	—	—	—	780	407	—	1,187	1,191
	1959-60..	—	2	—	485	716	25	1,228	1,230
	1960-61..	—	1	—	1,267	457	14	1,739	1,740
	1961-62..	—	—	1	690	319	106	1,116	1,118
	1962-63..	—	—	—	227	490	227	944	947
1963-64..	—	—	—	29	49	34	112	112	
<i>Fin- whales.</i>	1954-55..	—	5	11,128	9,521	4,954	—	25,608	25,878
	1955-56..	—	1	12,733	11,047	1,321	—	25,102	25,289
	1956-57..	—	3	10,777	11,345	3,377	—	25,502	25,700
	1957-58..	—	6	10,746	8,805	5,510	—	25,067	25,222
	1958-59..	—	7	11,818	8,615	5,247	—	25,687	25,837
	1959-60..	2	1,892	10,721	8,153	4,579	924	26,271	26,415
	1960-61..	73	2,074	10,714	7,871	5,983	584	27,299	27,374
	1961-62..	—	4,100	8,408	7,002	6,647	207	26,364	26,438
	1962-63..	—	3,477	6,099	5,639	3,228	193	18,636	18,668
1963-64..	—	2,732	4,338	4,164	2,482	137	13,853	13,870	
<i>Hump- backs.</i>	1954-55..	—	3	2	487	—	—	492	493
	1955-56..	—	2	2	1,421	—	—	1,425	1,432
	1956-57..	—	—	—	673	—	—	673	679
	1957-58..	—	—	1	395	—	—	396	396
	1958-59..	—	—	—	2,393	—	—	2,393	2,394
	1959-60..	—	—	1,257	74	1	—	1,332	1,338
	1960-61..	—	7	698	4	—	—	709	718
	1961-62..	—	1	306	—	—	2	309	309
	1962-63..	—	1	269	—	—	—	270	270
1963-64..	—	—	—	—	—	2	2	2	
<i>Sei- whales.</i>	1954-55..	—	—	7	95	43	—	145	146
	1955-56..	—	—	13	201	60	—	274	276
	1956-57..	—	—	83	428	197	—	708	712
	1957-58..	—	—	46	681	1,648	—	2,375	2,385
	1958-59..	—	—	205	586	603	—	1,394	1,402
	1959-60..	—	22	556	1,532	1,010	99	3,219	3,234
	1960-61..	—	4	602	1,901	1,583	190	4,280	4,310
	1961-62..	—	198	598	1,336	2,242	342	4,716	4,749
	1962-63..	—	392	659	1,954	2,112	365	5,482	5,503
1963-64..	—	552	3,204	2,451	1,867	182	8,256	8,286	
<i>Sperm- whales.</i>	1954-55..	424	3,472	1,060	333	373	—	5,662	5,708
	1955-56..	665	4,179	1,064	578	359	—	6,845	6,881
	1956-57..	373	2,749	622	376	215	—	4,335	4,345
	1957-58..	1,259	3,662	634	529	212	—	6,296	6,310
	1958-59..	731	3,470	605	426	196	—	5,428	5,437
	1959-60..	357	2,548	383	456	278	96	4,128	4,138
	1960-61..	1,013	2,018	431	448	536	208	4,654	4,666
	1961-62..	1,356	1,132	822	430	649	328	4,717	4,743
	1962-63..	¹⁾ 1,307	1,118	778	679	393	482	4,757	4,771
1963-64..	1,158	1,250	1,332	1,196	933	770	6,639	6,651	

¹⁾ Of which 101 caught in October.

Table h.—Antarctic, pelagic whaling. Catch by months in percentage figures.

Species of whales. Seasons.	Nov.	Dec.	Jan.	Feb.	March.	April.	Total.	The Whaling Statistics' total figures.	
<i>Total animals</i> {	1954-55	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
	
	
<i>Blue-whales</i> {	1954-55	—	—	5.0	8.5	9.2	—	6.3	6.3
	1955-56	—	—	—	10.2	5.7	—	4.6	4.5
	1956-57	—	—	—	8.4	7.9	—	4.6	4.6
	1957-58	—	—	—	12.4	2.7	—	4.7	4.7
	1958-59	—	—	—	6.1	6.3	—	3.3	3.3
	1959-60	—	—	—	4.5	10.9	2.2	3.4	3.4
	1960-61	—	—	—	11.0	5.3	1.4	4.5	4.5
	1961-62	—	—	—	7.3	3.2	10.8	3.0	3.0
	1962-63	—	—	—	2.7	7.9	17.9	3.1	3.1
1963-64	—	—	—	0.3	0.9	3.0	0.4	0.4	
<i>Fin-whales</i> {	1954-55	—	0.1	86.6	83.5	83.8	—	75.2	75.3
	1955-56	—	—	92.2	74.9	71.6	—	71.2	71.3
	1956-57	—	0.1	93.9	81.0	82.1	—	77.9	78.0
	1957-58	—	0.2	94.0	74.1	72.7	—	70.0	70.1
	1958-59	—	0.2	93.6	67.3	81.3	—	71.2	71.2
	1959-60	0.6	42.4	83.0	76.1	69.5	80.8	72.6	72.6
	1960-61	6.7	50.5	86.1	68.5	69.9	58.6	70.6	70.5
	1961-62	—	75.5	83.0	74.0	67.4	21.0	70.8	70.8
	1962-63	—	69.7	78.1	66.3	51.9	15.2	62.0	61.9
1963-64	—	60.3	48.9	53.1	46.6	12.2	48.0	48.0	
<i>Hump-backs</i> {	1954-55	—	0.1	—	4.3	—	—	1.5	1.4
	1955-56	—	0.1	—	9.6	—	—	4.0	4.0
	1956-57	—	—	—	4.8	—	—	2.1	2.0
	1957-58	—	—	—	3.3	—	—	1.1	1.1
	1958-59	—	—	—	18.7	—	—	6.6	6.6
	1959-60	—	—	9.7	0.7	0.1	—	3.7	3.7
	1960-61	—	0.2	5.6	0.1	—	—	1.8	1.9
	1961-62	—	—	3.0	—	—	0.2	0.8	0.8
	1962-63	—	—	3.5	—	—	—	0.9	0.9
1963-64	—	—	—	—	—	0.2	—	—	
<i>Sei-whales</i> {	1954-55	—	—	0.1	0.8	0.7	—	0.4	0.4
	1955-56	—	—	0.1	1.4	3.3	—	0.8	0.8
	1956-57	—	—	0.7	3.1	4.8	—	2.2	2.2
	1957-58	—	—	0.4	5.7	21.8	—	6.6	6.6
	1958-59	—	—	1.6	4.6	9.4	—	3.9	3.9
	1959-60	—	0.5	4.3	14.3	15.3	8.6	8.9	8.9
	1960-61	—	0.1	4.8	16.5	18.5	19.1	11.1	11.1
	1961-62	—	3.6	5.9	14.1	22.8	34.7	12.7	12.7
	1962-63	—	7.9	8.4	23.0	33.9	28.8	18.2	18.3
1963-64	—	12.2	36.1	31.3	35.0	16.2	28.6	28.6	
<i>Sperm-whales</i> {	1954-55	100.0	99.8	8.3	2.9	6.3	—	16.6	16.6
	1955-56	100.0	99.9	7.7	3.9	19.4	—	19.4	19.4
	1956-57	100.0	99.9	5.4	2.7	5.2	—	13.2	13.2
	1957-58	100.0	99.8	5.6	4.5	2.8	—	17.6	17.5
	1958-59	100.0	99.8	4.8	3.3	3.0	—	15.0	15.0
	1959-60	99.4	57.1	3.0	4.4	4.2	8.4	11.4	11.4
	1960-61	93.3	49.2	3.5	3.9	6.3	20.9	12.0	12.0
	1961-62	100.0	20.9	8.1	4.6	6.6	33.3	12.7	12.7
	1962-63	100.0	22.4	10.0	8.0	6.3	38.1	15.8	15.8
1963-64	100.0	27.5	15.0	15.3	17.5	68.4	23.0	23.0	

The distribution of the various species of whales killed in the season 1963-64 was as follows:

Catch between each 10 degrees latitude in the Antarctic.

	Blue- whales	Fin- whales	Sei- whales	Sperm- whales	Total of whales
40°—50° South Lat.	101	2,101	2,298	3,379	7,879
50°—60° » »	11	10,562	4,869	1,833 ¹⁾	17,277
60°—70° » »	—	1,190	1,089	1,427	3,706
70°—80° » »	—	—	—	—	—
Total	112	13,853	8,256	6,639 ¹⁾	28,862

¹⁾ In addition 2 humpbacks caught for fenders.

Catch in the different areas.

For the purpose of obtaining more detailed information on the pelagic activities in the Antarctic the area round the South Pole cap has been divided into the following 6 areas:—

Area	I	between 120° west and	60° west
”	II	” 0°	” 60° ”
”	III	” 0°	” 70° east
”	IV	” 70° east	” 130° ”
”	V	” 130° ”	” 170° west
”	VI	” 170° west	” 120° ”

From the survey below will be seen the whaling results in the individual areas during the period 1945/46-1963/64 and in the seasons 1962-63 and 1963-64.

Areas	Catch in blue-whale units 1945/46-1963/64		Catch in blue-whale units 1962/63		Catch in blue-whale units 1963/64	
	Number	Per cent	Number	Per cent	Number	Per cent
Total	274,345	100.0	11,306	100.0	8,447	100.0
Of which in:						
Area II.....	70,372	25.7	3,109	27.5	4,368	51.7
” III.....	100,205	36.5	5,491	48.6	2,808	33.2
” IV.....	43,506	15.9	1,010	8.9	367	4.4
” V.....	29,353	10.7	586	5.2	882	10.4
” VI.....	20,429	7.4	257	2.3	—	—
” I.....	10,480	3.8	853	7.5	22	0.3

The largest catch in the season 1963-64 was obtained in Area II with 4,368 blue-whale units, or about 52 per cent of the total catch. In the previous six seasons the catch in this area varied between 14 and 28 per cent of the total catch. In Area III the catch amounted to 2,808 blue-whale units or 33 per cent. Thus, in Areas II and III (from 60° West and

eastwards to 70° East) a total of 7,176 units were obtained, or 85 per cent of the total pelagic catch.

In Areas IV and V the results were 367 and 882 blue-whale units, respectively, i.e. 15 per cent of the total catch. In the other areas there was practically no whaling activity last season.

Table i, page 22, records the number and average size of blue-whales, fin-whales and humpbacks killed in the different areas for a series of years.

The total number of sei-whales and sperm-whales killed in the different areas during the season 1963-64 was as follows:

Area	Sei-whales caught in Number	1963-64 Per cent	Sperm-whales caught in Number	1963-64 Per cent
Total	8,256	100.0	6,639	100.0
Of which in:				
Area II	4,150	50.3	1,026	15.5
» III	1,984	24.0	1,773	26.7
» IV	274	3.3	1,400	21.1
» V	1,820	22.1	2,434	36.7
» VI	—	—	—	—
» I	28	0.3	6	—

Table j, page 24, contains a summary of the number of whales killed by species in each area during the period 1931/32-1963/64. Of a total catch of 189,132 blue-whales during this period 40.7 per cent have been taken in Area III and 29.9 per cent in Area IV. Of a total fin-whale catch of 500,839 animals 37.9 per cent have been taken in Area III and 30.9 per cent in Area II.

Average size of the whales killed.

Table k, page 25, gives the average size of whales killed in the pelagic whaling operations and from South Georgia in the seasons 1952/53-1963/64.

The average size of blue-whales killed in 1963-64 was 70.4 feet, which is a decline of 2.7 feet as compared with the previous season. This low average size is due to the fact that the blue-whales were given total protection in the Antarctic, except in the area between 40°-55° South and 0°-80° East, where the pygmy blue-whales are taken. The average size of fin-whales and sei-whales was largely the same as in the nearest preceding seasons and was for fin-whales 66.8 feet and for sei-whales 49.6 feet. The average size for sperm-whales in the pelagic whaling in 1963-64 fell by about one foot as compared with the 1962-63 season. The average size, 45.3 feet in 1963-64, was the lowest ever recorded for sperm-whales in the Antarctic.

Table i.—Number and average size of whales caught

No.	Species of whales. Seasons.	Area II (60° W.-0°)			Area III (0°-70° E.)			Area IV (70° E.-130° E.)		
		Number of whales caught.	Per cent.	Average size of the whales. Eng. ft.	Number of whales caught.	Per cent.	Average size of the whales. Eng. ft.	Number of whales caught.	Per cent.	Average size of the whales. Eng. ft.
Blue-whales.										
1	1931/32-1939/40	¹⁾ 24,101	19.7	78.9	53,314	43.6	78.3	43,511	35.6	79.9
2	1940/41-1944/45	2,106	90.8	77.9	214	9.2	78.5	-	-	-
3	1945/46-1949/50	7,078	21.6	78.1	12,268	37.5	78.6	7,548	23.1	78.7
4	1950-51	1,514	21.9	77.3	1,427	20.6	77.8	1,076	15.5	77.7
5	1951-52	447	8.8	78.2	1,836	36.0	79.2	1,199	23.5	77.7
6	1952-53	727	18.9	78.9	1,454	37.8	77.7	837	21.8	77.0
7	1953-54	542	20.3	78.1	1,569	58.8	78.2	356	13.4	77.2
8	1954-55	470	21.8	79.0	685	31.8	78.1	310	14.4	77.6
9	1955-56	439	27.3	77.1	300	18.6	78.8	322	20.0	77.7
10	1956-57	330	21.9	76.9	275	18.3	78.4	80	5.3	78.5
11	1957-58	236	14.0	77.8	620	36.9	77.4	186	11.1	76.7
12	1958-59	57	4.8	80.5	373	31.4	79.0	335	28.2	78.0
13	1959-60	58	4.7	79.2	231	18.8	77.4	403	32.8	73.3
14	1960-61	128	7.4	79.7	1,152	66.2	72.6	151	8.7	71.8
15	1961-62	189	16.9	77.6	477	42.8	72.9	97	8.7	74.0
16	1962-63	14	1.5	83.8	741	78.5	71.2	40	4.2	74.7
17	1963-64	-	-	-	93	83.0	70.6	19	17.0	69.7
	1931/32-1963/64	38,436	20.3	78.6	77,029	40.7	78.2	56,470	29.9	79.5
Fin-whales.										
1	1931/32-1939/40	²⁾ 39,987	39.3	67.7	39,179	38.5	67.5	20,487	20.2	68.3
2	1940/41-1944/45	2,039	97.7	66.6	49	2.3	67.4	-	-	-
3	1945/46-1949/50	27,837	37.4	67.5	25,239	33.9	68.0	14,017	18.8	67.4
4	1950-51	5,081	29.4	66.4	4,133	23.9	66.2	4,210	24.3	66.5
5	1951-52	5,977	29.4	67.9	7,122	35.1	68.1	2,141	10.5	67.3
6	1952-53	4,551	21.7	68.1	11,364	54.2	67.1	1,449	6.9	66.2
7	1953-54	7,653	31.0	67.4	11,459	46.4	67.0	2,195	8.9	67.0
8	1954-55	4,963	19.4	67.3	13,607	53.1	66.4	2,790	10.9	66.4
9	1955-56	6,619	26.4	66.2	7,088	28.2	66.8	3,208	12.8	66.5
10	1956-57	10,697	41.9	67.4	3,812	15.0	67.2	291	1.1	64.6
11	1957-58	5,211	20.8	67.3	9,197	36.7	66.7	3,579	14.3	65.6
12	1958-59	4,298	16.7	67.1	9,385	36.6	66.4	7,277	28.3	66.5
13	1959-60	4,920	18.7	66.9	9,307	35.4	66.7	6,501	24.8	66.3
14	1960-61	5,223	19.1	66.6	13,269	48.6	67.5	2,086	7.7	65.7
15	1961-62	6,650	25.2	67.5	11,847	44.9	66.7	3,129	11.9	64.8
16	1962-63	5,570	29.9	67.0	8,977	48.2	65.9	1,725	9.3	65.4
17	1963-64	7,319	52.8	67.4	4,753	34.3	66.0	603	4.4	64.5
	1931/32-1963/64	154,595	30.9	67.4	189,787	37.9	67.1	75,688	15.1	67.0
Humpbacks.										
1	1931/32-1940/41	³⁾ 1,288	9.3	41.3	6,257	45.3	40.8	6,243	45.2	40.6
2	1946/47-1948/49	6	37.5	44.0	9	56.3	41.7	1	6.2	45.0
3	1949-50	172	8.2	41.0	251	11.9	41.7	779	37.0	40.4
4	1950-51	2	0.1	38.5	20	1.2	38.8	1,112	68.5	40.5
5	1951-52	33	2.2	42.9	189	12.3	42.0	1,127	73.6	39.9
6	1952-53	14	1.5	44.6	218	23.2	41.2	191	20.3	39.1
7	1953-54	13	2.2	41.2	172	29.0	41.0	258	43.5	39.3
8	1954-55	2	0.4	42.5	142	28.9	41.4	-	-	-
9	1955-56	-	-	-	64	4.5	41.1	824	57.8	39.8
10	1956-57	-	-	-	8	1.2	40.8	-	-	-
11	1957-58	-	-	-	116	29.3	41.0	-	-	-
12	1958-59	-	-	-	95	4.0	42.4	1,796	75.0	39.6
13	1959-60	-	-	-	156	11.7	41.5	66	5.0	39.6
14	1960-61	3	0.4	37.3	117	16.5	41.1	4	0.6	47.5
15	1961-62	3	1.0	42.7	33	10.7	42.1	56	18.1	39.6
16	1962-63	-	-	-	32	11.9	41.6	-	-	-
	1931/32-1963/64	1,536	5.4	41.3	⁴⁾ 7,881	27.5	40.9	12,457	43.5	40.3

¹⁾ Incl. 608 blue-whales, length not stated. ²⁾ Incl. 198 fin-whales, length not stated. ³⁾ Incl. 2 humpbacks,

in the different areas of Antarctic. Pelagic whaling.

Area V (130° E.-170° W.)			Area VI (170° W.-120° W.)			Area I (120° W.-60° W.)			All areas			The Whaling Statistics* total figures for whales caught.	No.
Number of whales caught.	Per cent.	Average size of the whales.	Number of whales caught.	Per cent.	Average size of the whales	Number of whales caught.	Per cent.	Average size of the whales	Number of whales caught.	Per cent.	Average size of the whales.		
		Eng. ft.			Eng. ft.			Eng. ft.			Eng. ft.		
1,326	1.1	79.9	1	—	82.0	10	—	72.9	122,263	100	79.0	128,191	1
—	—	—	—	—	—	—	—	—	2,320	100	77.9	6,161	2
4,667	14.2	79.0	1,167	3.6	79.4	—	—	—	32,728	100	78.6	32,820	3
2,211	31.9	79.3	655	9.5	78.8	45	0.6	77.7	6,928	100	78.2	6,966	4
1,462	28.6	76.9	157	3.1	77.5	—	—	—	5,101	100	78.0	5,124	5
512	13.3	76.4	317	8.2	76.9	—	—	—	3,847	100	77.5	3,866	6
83	3.1	78.2	117	4.4	76.7	—	—	—	2,667	100	78.0	2,684	7
561	26.0	76.4	128	6.0	77.0	—	—	—	2,154	100	77.8	2,163	8
15	0.9	79.1	281	17.4	76.2	254	15.8	76.3	1,611	100	77.3	1,611	9
—	—	—	617	41.0	76.3	203	13.5	76.9	1,505	100	77.0	1,505	10
76	4.5	76.9	439	26.1	76.9	125	7.4	76.1	1,682	100	77.1	1,684	11
176	14.9	78.5	246	20.7	76.9	—	—	—	1,187	100	78.3	1,191	12
391	31.8	76.6	127	10.4	76.9	18	1.5	78.7	1,228	100	75.9	1,230	13
90	5.2	78.6	213	12.2	78.0	5	0.3	77.0	1,739	100	74.0	1,740	14
74	6.6	77.4	58	5.2	76.4	221	19.8	78.2	1,116	100	75.3	1,118	15
115	12.2	82.1	25	2.6	77.9	9	1.0	75.6	944	100	73.1	947	16
—	—	—	—	—	—	—	—	—	112	100	70.4	112	17
11,759	6.2	78.6	4,548	2.4	77.8	890	0.5	76.9	189,132	100	78.6	199,113	
1,993	2.0	68.1	—	—	—	77	—	64.7	101,723	100	67.7	108,883	1
—	—	—	—	—	—	—	—	—	2,088	100	66.6	8,289	2
6,222	8.4	67.8	1,077	1.5	69.0	—	—	—	74,392	100	67.7	74,867	3
2,198	12.7	67.4	1,212	7.0	68.2	462	2.7	68.5	17,296	100	66.6	17,474	4
2,768	13.6	67.9	2,304	11.4	67.6	—	—	—	20,312	100	67.9	20,520	5
1,709	8.2	66.8	1,891	9.0	67.7	—	—	—	20,964	100	67.3	21,197	6
654	2.7	66.9	2,616	10.6	66.8	98	0.4	66.6	24,675	100	67.1	24,986	7
3,021	11.8	66.0	1,227	4.8	66.4	—	—	—	25,608	100	66.5	25,878	8
1,494	5.9	66.0	2,585	10.3	66.2	4,108	16.4	67.1	25,102	100	66.5	25,289	9
23	0.1	65.0	5,064	19.9	65.9	5,615	22.0	66.8	25,502	100	66.9	25,700	10
1,130	4.5	64.4	4,107	16.4	65.1	1,843	7.3	66.1	25,067	100	66.2	25,222	11
2,625	10.2	65.6	2,102	8.2	64.6	—	—	—	25,687	100	66.3	25,837	12
4,730	18.0	66.8	401	1.5	65.1	412	1.6	64.5	26,271	100	66.6	26,415	13
3,174	11.6	66.9	3,174	11.6	64.9	373	1.4	65.2	27,299	100	66.8	27,374	14
1,098	4.2	65.5	1,120	4.2	64.9	2,520	9.6	66.0	26,364	100	66.5	26,438	15
645	3.5	66.7	346	1.8	64.8	1,373	7.3	65.7	18,636	100	66.2	18,668	16
1,144	8.3	67.5	—	—	—	34	0.2	65.9	13,853	100	66.8	13,870	17
34,628	6.9	66.9	29,226	5.8	66.1	16,915	3.4	66.5	500,839	100	67.0	516,907	
28	0.2	40.3	—	—	—	—	—	—	13,816	100	40.7	16,225	1
—	—	—	—	—	—	—	—	—	16	100	42.8	16	2
903	42.9	40.5	—	—	—	—	—	—	2,105	100	40.6	2,117	3
162	10.0	42.0	66	4.1	41.2	262	16.1	41.5	1,624	100	40.8	1,630	4
146	9.5	41.6	37	2.4	41.7	—	—	—	1,532	100	40.4	1,546	5
505	53.6	41.3	13	1.4	45.3	—	—	—	941	100	40.9	954	6
14	2.4	42.7	136	22.9	41.2	—	—	—	593	100	40.3	594	7
171	34.8	39.8	177	35.9	41.9	—	—	—	492	100	41.1	493	8
194	13.6	39.4	329	23.1	40.3	14	1.0	43.3	1,425	100	40.0	1,432	9
—	—	—	10	1.5	42.3	655	97.3	41.4	673	100	41.4	679	10
23	5.8	41.0	167	42.2	41.8	90	22.7	41.9	396	100	41.5	396	11
502	21.0	40.7	—	—	—	—	—	—	2,393	100	40.0	2,394	12
931	69.9	40.8	—	—	—	179	13.4	41.8	1,332	100	40.9	1,338	13
293	41.3	40.9	210	29.6	41.7	82	11.6	42.5	709	100	41.4	718	14
—	—	—	92	29.8	41.1	125	40.4	42.1	309	100	41.4	309	15
188	69.6	41.6	1	0.4	41.0	49	18.1	41.6	270	100	41.6	270	16
4,060	14.2	40.8	1,238	4.3	41.3	1,456	5.1	41.7	28,628	100	40.7	31,113	

length not stated. *) Incl. 2 humpbacks caught in Area III in 1963—64.

Table j.—Number of whales killed during the seasons 1931/32—1963/64.

— 1 —

Areas	Blue-whales		Fin-whales		Humpbacks		Sperm-whales		Total	
	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent
II.....	38,436	20.3	154,595	30.9	1,536	5.4	18,833	22.0	213,400	26.6
III.....	77,029	40.7	189,787	37.9	7,881	27.5	30,333	35.5	305,030	37.9
IV.....	56,470	29.9	75,688	15.1	12,457	43.5	18,619	21.8	163,234	20.3
V.....	11,759	6.2	34,628	6.9	4,060	14.2	13,251	15.5	63,698	7.9
VI.....	4,548	2.4	29,226	5.8	1,238	4.3	2,284	2.7	37,296	4.6
I.....	890	0.5	16,915	3.4	1,456	5.1	2,203	2.5	21,464	2.7
Total.....	189,132	100.0	500,839	100.0	28,628	100.0	85,523	100.0	804,122	100.0

— 2 —

Species of whales	Area II		Area III		Area IV		Area V		Area VI		Area I		Total	
	No. of whales	Per cent	No. of whales	Per cent	No. of whales	Per cent	No. of whales	Per cent	No. of whales	Per cent	No. of whales	Per cent	No. of whales	Per cent
Blue.....	38,436	18.0	77,029	25.3	56,470	34.6	11,759	18.5	4,548	12.2	890	4.1	189,132	23.5
Fin.....	154,595	72.5	189,787	62.2	75,688	46.4	34,628	54.3	29,226	78.4	16,915	78.8	500,839	62.3
Humpback	1,536	0.7	7,881	2.6	12,457	7.6	4,060	6.4	1,238	3.3	1,456	6.8	28,628	3.6
Sperm....	18,833	8.8	30,333	9.9	18,619	11.4	13,251	20.8	2,284	6.1	2,203	10.3	85,523	10.6
Total....	213,400	100.0	305,030	100.0	163,234	100.0	63,698	100.0	37,296	100.0	21,464	100.0	804,122	100.0

For the seasons covered by table k the minimum length settled for blue-whales and humpbacks has been 70 ft. and 35 ft., respectively. The minimum length settled for fin-whales was 55 ft. until and including 1950-51, during the 3 successive seasons 60 ft. and from and including 1954-55 57 feet. In order to eliminate the possible influence which a variation in the legal size and the number of undersized whales killed might have on the average size, table l page 25, has been prepared.

The average size of blue- and fin-whales killed in the different areas during a number of seasons were as follows:

Season	Average size of blue-whales killed, in Engl. feet.						All areas
	Area II	Area III	Area IV	Area V	Area VI	Area I	
1958-59	80.5	79.0	78.0	78.5	76.9	—	78.3
1959-60	79.2	77.4	73.3	76.6	76.9	78.7	75.9
1960-61	79.7	72.6	71.8	78.6	78.0	77.0	74.0
1961-62	77.6	72.9	74.0	77.4	76.4	78.2	75.3
1962-63	83.8	71.2	74.7	82.1	77.9	75.6	73.1
1963-64	—	70.6	69.7	—	—	—	70.4

Average size of fin-whales killed, see page 26.

Table k.—Average size of whales killed in the Antarctic, by whaling grounds and species of whales 1952/53—1963/64.

Whaling grounds and species of whales.	1952 -53	1953 -54	1954 -55	1955 -56	1956 -57	1957 -58	1958 -59	1959 -60	1960 -61	1961 -62	1962 -63	1963 -64
Pelagic whaling.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.
<i>Blue-whales.</i>												
Males	75.8	76.0	75.7	75.6	75.8	75.4	76.0	74.5	72.8	73.8	72.9	69.7
Females	79.1	79.6	79.5	78.9	78.4	79.0	80.2	77.0	75.2	76.7	73.3	71.2
Total animals	77.5	78.0	77.8	77.3	77.0	77.1	78.3	75.9	74.0	75.3	73.1	70.4
<i>Fin-whales.</i>												
Males	65.7	65.6	65.1	65.1	65.3	64.7	64.8	65.0	65.1	64.4	64.1	64.7
Females	68.8	68.7	68.0	68.1	68.6	67.7	67.8	68.1	68.4	68.2	67.8	68.6
Total animals	67.3	67.1	66.5	66.5	66.9	66.2	66.3	66.6	66.8	66.5	66.2	66.8
<i>Humpbacks.</i>												
Males	39.5	39.6	39.9	39.0	40.7	40.8	39.2	39.8	40.6	40.4	39.9	—
Females	42.0	41.1	41.8	40.7	42.1	42.1	40.7	41.8	42.2	41.9	42.7	40.0
Total animals	40.9	40.3	41.1	40.0	41.4	41.5	40.0	40.9	41.4	41.4	41.6	40.0
<i>Sei-whales.</i>												
Males	49.6	47.0	44.9	48.5	48.7	48.3	48.8	48.7	48.6	48.7	48.4	48.5
Females	52.3	50.8	47.9	51.3	51.3	51.3	51.4	51.3	51.4	51.3	50.9	50.8
Total animals	51.6	49.2	46.5	50.4	50.4	50.3	50.8	50.5	50.2	50.3	49.8	49.6
<i>Sperm-whales.</i>												
Males	49.9	49.2	48.9	48.4	48.7	47.5	47.2	47.3	46.8	46.3	46.5	45.7
Females	—	—	—	—	—	36.5	—	39.0	—	41.0	38.6	38.6
Total animals	49.9	49.2	48.9	48.4	48.7	47.5	47.2	47.3	46.8	46.3	46.4	45.3
South Georgia.												
<i>Blue-whales, total ...</i>	74.0	73.3	73.0	81.3	71.7	74.5	64.0	73.0	72.8	—	—	—
<i>Fin-whales, total ...</i>	65.4	64.0	64.8	65.0	63.8	66.1	65.9	66.4	64.0	62.9	—	66.9
<i>Humpbacks, total ...</i>	40.1	39.4	40.0	—	—	—	—	—	—	—	—	—
<i>Sei-whales, total ...</i>	50.1	49.3	50.0	50.0	49.5	50.1	49.8	49.5	49.3	48.6	—	49.8
<i>Sperm-whales, total ...</i>	46.7	47.0	48.7	46.8	45.7	47.1	46.5	47.6	46.9	46.7	—	48.7

Table l.—Average size of whales killed, by species and sex 1952/53—1963/64, excl. of blue-whales less than 70', fin-whales less than 60' and humpbacks less than 35'. Antarctic, pelagic whaling.

Species of whales.	1952 -53	1953 -54	1954 -55	1955 -56	1956 -57	1957 -58	1958 -59	1959 -60	1960 -61	1961 -62	1962 -63	1963 -64
<i>Blue-whales.</i>	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.
Males	76.3	76.4	76.1	76.1	76.3	75.8	76.3	74.9	73.1	74.1	72.9	71.7
Females	79.5	80.1	80.0	79.4	79.0	79.4	80.6	77.5	75.5	76.9	73.6	72.9
Total animals	78.0	78.5	78.2	77.9	77.5	77.6	78.7	76.3	74.3	75.7	73.2	72.4
<i>Fin-whales.</i>												
Males	66.0	65.9	65.9	65.2	66.2	65.8	65.9	66.1	66.2	66.0	65.8	66.3
Females	69.1	69.0	68.9	68.3	69.6	69.0	69.0	69.3	69.5	69.8	69.4	70.0
Total animals	67.6	67.4	67.4	66.7	67.9	67.5	67.4	67.8	67.9	68.1	67.9	68.4
<i>Humpbacks.</i>												
Males	39.7	39.7	40.0	39.1	40.8	40.9	39.2	39.9	40.6	40.4	40.1	—
Females	42.2	41.3	41.9	40.8	42.3	42.3	40.9	41.9	42.3	42.0	42.7	40.0
Total animals	41.1	40.5	41.1	40.1	41.6	41.6	40.1	41.1	41.4	41.4	41.6	40.0

The average size of fin-whales killed in the different areas during a number of seasons were, in Engl. feet:

Season	Area II	Area III	Area IV	Area V	Area VI	Area I	All areas
1958-59	67.1	66.4	66.5	65.6	64.6	—	66.3
1959-60	66.9	66.7	66.3	66.8	65.1	64.5	66.6
1960-61	66.6	67.5	65.7	66.9	64.9	65.2	66.8
1961-62	67.5	66.7	64.8	65.5	64.9	66.0	66.5
1962-63	67.0	65.9	65.4	66.7	64.8	65.7	66.2
1963-64	67.4	66.0	64.5	67.5	—	65.9	66.8

In the season 1963-64 the pelagic expeditions caught 39 blue-whales, 85 fin-whales, 1 sei-whale and 14 sperm-whales, which were below the minimum size. The corresponding figures in 1962-63 were 15 blue-whales, 128 fin-whales, 2 humpbacks and 42 sperm-whales.

Mature and immature whales.

Table *m*, page 27, gives particulars of the catch of mature and immature whales in absolute and relative figures during a series of seasons.

Animals of the following sizes are regarded as mature:

Blue-whales: Female	77 feet and over	
Male	74	—, —
Fin-whales: Female	65	—, —
Male	63	—, —
Humpbacks: Female	41	—, —
Male	40	—, —

Pelagic whaling results in relation to the whaling matériel and whaling period.

From the survey below it will be seen that there has been a great decline in the average result of blue-whale units per catcher day during the latest seasons. Thus the catch in blue-whale units per catcher day amounted to 0.94 in 1958-59, 0.68 in 1960-61, 0.50 in 1962-63 and 0.41 in 1963-64.

Season	Average result of blue-whale units per catcher's day's work.						
	Area II	Area III	Area IV	Area V	Area VI	Area I	All areas
1958-59	0.79	0.94	1.03	0.93	0.93	—	0.94
1959-60	0.55	0.68	0.91	0.87	0.57	0.62	0.73
1960-61	0.59	0.74	0.85	0.61	0.64	0.47	0.68
1961-62	0.45	0.57	0.57	0.39	0.38	0.53	0.51
1962-63	0.51	0.59	0.36	0.46	0.42	0.36	0.50
1963-64	0.52	0.42	0.19	0.27	—	0.23	0.41

Table m.—Antarctic, pelagic whaling. Catch of immature and mature whales 1954/55—1963/64.

	1954—55.		1955—56.		1956—57.		1957—58.		1958—59.		1959—60.		1960—61.		1961—62.		1962—63.		1963—64.	
	Number of whales.	Per cent.	Number of whales.	Per cent.	Number of whales.	Per cent.	Number of whales.	Per cent.	Number of whales.	Per cent.	Number of whales.	Per cent.	Number of whales.	Per cent.	Number of whales.	Per cent.	Number of whales.	Per cent.	Number of whales.	Per cent.
Blue-whales.																				
Immature																				
males	374	37.4	289	37.4	268	33.7	316	36.9	175	33.0	267	46.5	618	71.3	310	61.0	356	76.6	1)	1)
females . . .	439	38.0	352	42.0	312	44.0	332	40.2	219	33.3	351	56.7	629	72.1	347	57.1	403	84.1		
animals . . .	813	37.7	641	39.8	580	38.5	648	38.5	394	33.2	618	50.3	1,247	71.7	657	58.9	759	80.4		
Mature																				
males	626	62.6	484	62.6	528	66.3	541	63.1	355	67.0	307	53.5	249	28.7	198	39.0	109	23.4	1)	1)
females . . .	715	62.0	486	58.0	397	56.0	494	59.8	438	66.7	303	43.3	243	27.9	261	42.9	76	15.9		
animals . . .	1,341	62.3	970	60.2	925	61.5	1,035	61.5	793	66.8	610	49.7	492	28.3	459	41.1	185	19.6		
Fin-whales.																				
Immature																				
males	3,348	26.3	3,169	24.7	3,089	23.9	3,629	30.0	3,654	28.9	3,445	27.0	3,575	27.4	4,083	34.3	3,113	37.5	2,096	32.8
females . . .	3,645	28.2	3,269	26.7	3,281	26.1	4,052	31.3	4,041	31.0	3,816	28.2	3,996	28.1	4,335	30.0	3,410	33.0	2,072	27.8
animals . . .	6,993	27.3	6,438	25.7	6,370	25.0	7,681	30.6	7,695	30.0	7,261	27.6	7,571	27.7	8,418	31.9	6,523	35.0	4,168	30.1
Mature																				
males	9,358	73.7	9,688	75.3	9,835	76.1	8,484	70.0	8,976	71.1	9,290	73.0	9,494	72.6	7,816	65.7	5,187	62.5	4,303	67.2
females . . .	9,257	71.8	8,976	73.3	9,297	73.9	8,902	68.7	9,016	69.0	9,720	71.8	10,234	71.9	10,130	70.0	6,926	67.0	5,382	72.2
animals . . .	18,615	72.7	18,664	74.3	19,132	75.0	17,386	69.4	17,992	70.0	19,010	72.4	19,728	72.3	17,946	68.1	12,113	65.0	9,685	69.9
Humpbacks.																				
Immature																				
males	87	43.5	341	56.9	85	26.1	58	30.9	658	57.2	271	47.7	140	37.8	40	35.7	57	52.8	—	—
females . . .	107	36.6	392	47.5	102	29.4	63	30.3	607	48.8	287	37.6	109	32.2	64	32.5	44	27.2	—	—
animals . . .	194	39.4	733	51.4	187	27.8	121	30.6	1,265	52.9	558	41.9	249	35.1	104	33.7	101	37.4	—	—
Mature																				
males	113	56.5	258	43.1	241	73.9	130	69.1	492	42.8	297	52.3	230	62.2	72	64.3	51	47.2	—	—
females . . .	185	63.4	434	52.5	245	70.6	145	69.7	636	51.2	477	62.4	230	67.8	133	67.5	118	72.8	2	100.0
animals . . .	298	60.6	692	48.6	486	72.2	275	69.4	1,128	47.1	774	58.1	460	64.9	205	66.3	169	62.6	2	100.0

¹⁾ Data not available.

Table n.—Antarctic, pelagic whaling results for the various countries 1952/53—1963/64.

Seasons	All countries			Norway			United Kingdom			South Africa		
	Number of whales killed	Oil production	Catchers employed	Number of whales killed	Oil production	Catchers employed	Number of whales killed	Oil production	Catchers employed	Number of whales killed	Oil production	Catchers employed
		Barrels ¹			Barrels			Barrels			Barrels	
1952-53.....	28,325	1,998,094	230	10,381	767,960	95	6,173	449,215	46	2,460	150,455	16
1953-54.....	31,218	2,100,884	206	13,632	963,085	100	6,345	471,138	40	2,226	147,271	13
1954-55.....	34,388	2,061,789	233	13,428	809,488	101	6,656	400,870	40	1,696	99,809	13
1955-56.....	35,531	2,134,808	257	13,371	788,554	110	6,346	409,701	44	2,184	109,539	15
1956-57.....	32,987	2,098,854	225	14,008	955,599	94	5,281	333,967	35	1,596	86,586	10
1957-58.....	36,490	2,146,206	237	13,289	853,810	94	5,534	323,472	37	-	-	-
1958-59.....	36,364	2,050,241	235	13,292	796,986	93	4,601	259,723	37	-	-	-
1959-60.....	36,559	2,050,892	220	10,656	655,033	70	4,432	257,368	31	-	-	-
1960-61.....	38,972	2,123,157	252	12,490	743,298	81	3,496	196,472	22	-	-	-
1961-62.....	37,361	2,001,961	261	9,304	568,768	71	3,130	162,552	22	-	-	-
1962-63.....	30,182	1,495,779	201	4,582	224,199	32	1,552	79,222	9	-	-	-
1963-64.....	29,022	1,299,476	190	5,631	247,432	33	-	-	-	-	-	-

Seasons	Japan			Panama			Netherlands			U.S.S.R.		
	Number of whales killed	Oil production	Catchers employed	Number of whales killed	Oil production	Catchers employed	Number of whales killed	Oil production	Catchers employed	Number of whales killed	Oil production	Catchers employed
		Barrels			Barrels			Barrels			Barrels	
1952-53.....	2,645	207,335	30	2,365	164,150	16	1,575	103,710	12	2,726	155,269	15
1953-54.....	4,218	252,677	26	-	-	-	1,711	97,596	12	3,086	169,117	15
1954-55.....	5,958	366,915	36	2,512	147,880	16	848	64,739	12	3,290	172,088	15
1955-56.....	6,462	408,853	40	2,730	160,960	15	1,665	103,465	18	2,773	153,736	15
1956-57.....	8,093	492,507	54	-	-	-	1,409	92,489	14	2,600	137,706	18
1957-58.....	11,763	627,849	68	-	-	-	1,867	116,497	14	4,037	224,578	24
1958-59.....	12,558	646,130	69	-	-	-	2,226	126,488	12	3,687	220,914	24
1959-60.....	12,359	617,141	69	-	-	-	2,081	143,050	13	7,031	378,300	37
1960-61.....	13,592	667,350	83	-	-	-	2,212	139,774	14	7,182	376,263	52
1961-62.....	14,351	735,895	86	-	-	-	1,628	90,305	15	8,948	444,441	67
1962-63.....	13,617	716,838	79	-	-	-	1,301	79,515	11	9,130	396,005	70
1963-64.....	12,494	625,394	78	-	-	-	1,182	63,382	11	9,715	363,268	68

¹) Barrel = 170 kg. (Barrel = abt. 1/8 long ton. 1 long ton = 1,016 kg.)

Table n, page 28, gives a survey of the pelagic whaling results of the individual participating countries as from 1952-53 regarding the number of whales killed, oil production and number of catchers employed in each season.

South Georgia.

The whaling results from South Georgia for each season since 1945-46 are given in the table below. There were no whaling operations from South Georgia during the season 1962-63. Otherwise, whaling has been carried on from South Georgia ever since the Antarctic whaling commenced in 1904-05.

During the season 1963-64 2 shore stations with about 8 catching boats, on an average, were in activity. One of the stations, however, was operating only for a short period. The catch result was 1,021 whales, from which were produced 38,241 barrels of whale oil and 3,041 barrels of sperm oil.

Tables p and q, pages 30 and 31, give the catch off South Georgia by months in absolute and percentage figures from and including 1954-55. Table r, page 32, shows the proportion of mature and immature whales killed.

Table o.—South Georgia.

Years.	Species of whales caught.							Oil production.	Expeditions.			Number of whales per boat.	
	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.	Total of whales.		Shore stations.	Float-ing factories.	Catchers.		
								Barrels					
1945-46	80	1,456	238	82	57	—	1,913	78,877	3	—	16	120	
1946-47	327	1,670	28	391	133	1)	2,550	145,318	3	—	18	142	
1947-48	46	2,142	24	609	128	—	2,949	163,398	3	—	21	140	
1948-49	226	1,922	18	562	213	—	2,941	172,194	3	—	21	140	
1949-50	14	1,999	26	1,183	157	—	3,379	147,121	3	—	21	161	
1950-51	82	1,982	8	519	226	—	2,817	151,192	3	—	21	134	
1951-52	6	2,007	10	498	141	—	2,662	144,375	3	—	21	127	
1952-53	4	1,670	9	498	147	—	2,328	120,003	3	—	21	111	
1953-54	13	2,673	11	778	179	—	3,654	184,836	3	—	21	174	
1954-55	13	2,746	2	423	82	—	3,266	180,766	3	—	21	156	
1955-56	3	2,669	—	284	93	—	3,049	172,363	3	—	21	145	
1956-57	7	2,057	—	980	84	—	3,128	148,068	3	—	21	149	
1957-58	6	2,251	—	924	225	—	3,406	171,432	2	—	2)	20	150
1958-59	1	1,291	—	1,019	215	—	2,526	102,418	3	—	21	120	
1959-60	9	1,160	—	1,075	89	—	2,333	97,546	3	—	21	111	
1960-61	4	1,387	—	792	134	—	2,317	109,727	3	—	2)	16	138
1961-62	—	661	—	447	86	—	1,194	49,815	1	—	8	149	
1962-63	—	—	—	—	—	—	—	—	—	—	—	—	
1963-64	—	552	—	409	60	—	1,021	41,282	2	—	3)	16	128

1) Right-whale. 2) In addition some whaling boats, which in advance of and after the pelagic baleen whale season were operating from South Georgia. These whaling boats are included under the pelagic whaling. To this fact due consideration has been taken by calculating the "Number of whales per boat." 3) The catch was carried on with about 8 whaling boats, on an average, as 12 of the boats after 2 months of operation were transferred to the pelagic whaling.

Table p.—South Georgia. Catch by months in absolute figures.

Species of whales. Seasons.	Oct.	Nov.	Dec.	Jan.	Feb.	March.	April.	Total.	The Whaling Statistics' total figures.	
<i>Total animals.</i>	1954-55	607	716	506	443	399	510	—	3,181	3,266
	1955-56	371	391	266	757	572	644	—	3,001	3,049
	1956-57	314	404	460	562	627	701	—	3,068	3,128
	1957-58	234	488	869	465	665	636	—	3,357	3,406
	1958-59	342	288	378	278	516	702	—	2,504	2,526
	1959-60	345	214	253	481	654	353	—	2,300	2,333
	1960-61	298	160	353	456	546	460	—	2,273	2,317
	1961-62	187	200	186	184	229	197	—	1,183	1,194
	1962-63	—	—	—	—	—	—	—	—	—
1963-64	179	372	51	223	145	40	—	1,010	1,021	
<i>Blue-whales.</i>	1954-55	1	—	7	2	2	1	—	13	13
	1955-56	1	—	1	—	—	1	—	3	3
	1956-57	2	1	1	1	1	1	—	7	7
	1957-58	—	1	2	—	2	1	—	6	6
	1958-59	—	—	—	—	1	—	—	1	1
	1959-60	5	1	1	—	—	2	—	9	9
	1960-61	—	1	1	2	—	—	—	4	4
	1961-62— 1963-64	—	—	—	—	—	—	—	—	—
<i>Fin-whales.</i>	1954-55	599	709	476	403	240	242	—	2,669	2,746
	1955-56	366	386	262	695	425	487	—	2,621	2,669
	1956-57	312	387	446	438	336	94	—	2,013	2,057
	1957-58	203	486	847	418	200	61	—	2,215	2,251
	1958-59	342	283	329	177	100	45	—	1,276	1,291
	1959-60	338	211	243	261	83	7	—	1,143	1,160
	1960-61	297	124	270	154	240	273	—	1,358	1,387
	1961-62	182	190	172	35	64	13	—	656	661
	1962-63	—	—	—	—	—	—	—	—	—
1963-64	164	339	29	6	3	—	—	541	552	
<i>Hump-backs.</i>	1954-55	—	2	—	—	—	—	—	2	2
	1955-56— 1963-64	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—
<i>Sei-whales.</i>	1954-55	1	—	1	29	153	232	—	416	423
	1955-56	—	—	—	31	132	121	—	284	284
	1956-57	—	—	1	103	271	589	—	964	980
	1957-58	—	—	—	30	388	494	—	912	924
	1958-59	—	—	—	63	340	609	—	1,012	1,019
	1959-60	—	—	4	182	539	335	—	1,060	1,075
	1960-61	1	—	45	284	289	158	—	777	792
	1961-62	—	—	13	133	147	149	—	442	447
	1962-63	—	—	—	—	—	—	—	—	—
1963-64	—	1	17	215	138	38	—	409	409	
<i>Sperm-whales.</i>	1954-55	6	5	22	9	4	35	—	81	82
	1955-56	4	5	3	31	15	35	—	93	93
	1956-57	—	16	12	20	19	17	—	84	84
	1957-58	31	1	20	17	75	80	—	224	225
	1958-59	—	5	49	38	75	48	—	215	215
	1959-60	2	2	5	38	32	9	—	88	89
	1960-61	—	35	37	16	17	29	—	134	134
	1961-62	5	10	1	16	18	35	—	85	86
	1962-63	—	—	—	—	—	—	—	—	—
1963-64	15	32	5	2	4	2	—	60	60	

Table q.—South Georgia. Catch by months in percentage figures.

Species of whales. Seasons.	Oct.	Nov.	Dec.	Jan.	Feb.	March.	April.	Total.	The Whal- ing Statis- tics' total figures.	
<i>Total animals</i> } 1954-55	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
	
<i>Blue-whales</i> {	1954-55	0.2	-	1.4	0.5	0.5	0.2	-	0.4	0.4
	1955-56	0.3	-	0.4	-	-	0.2	-	0.1	0.4
	1956-57	0.6	0.2	0.2	0.2	0.2	0.2	-	0.2	0.1
	1957-58	-	0.2	0.2	-	0.3	0.2	-	0.2	0.2
	1958-59	-	-	-	-	0.2	-	-	-	-
	1959-60	1.4	0.5	0.4	-	-	0.6	-	0.4	0.4
	1960-61	-	0.6	0.3	0.4	-	-	-	0.2	0.2
	1961-62	-	-	-	-	-	-	-	-	-
1963-64	-	-	-	-	-	-	-	-	-	
<i>Fin-whales</i> {	1954-55	98.7	99.0	94.1	91.0	60.2	47.5	-	83.9	84.1
	1955-56	98.6	98.7	98.5	91.8	74.3	75.6	-	87.3	87.5
	1956-57	99.4	95.8	97.0	77.9	53.6	13.4	-	65.6	65.8
	1957-58	86.8	99.6	97.5	89.9	30.1	9.6	-	66.0	66.1
	1958-59	100.0	98.3	87.0	63.7	19.4	6.4	-	51.0	51.1
	1959-60	98.0	98.6	96.0	54.3	12.7	2.0	-	49.7	49.7
	1960-61	99.7	77.5	76.5	33.8	44.0	59.4	-	59.7	59.9
	1961-62	97.3	95.0	92.5	19.0	27.9	6.6	-	55.4	55.4
	1962-63	-	-	-	-	-	-	-	-	-
	1963-64	91.6	91.1	56.9	2.7	2.0	-	-	53.6	54.1
<i>Hump-backs</i> {	1953-54	-	-	0.3	0.7	0.1	0.4	-	0.3	0.3
	1954-55	-	0.3	-	-	-	-	-	0.1	0.1
	1955-56	-	-	-	-	-	-	-	-	-
	1963-64	-	-	-	-	-	-	-	-	-
<i>Sei-whales</i> {	1954-55	0.1	-	0.2	6.5	38.3	45.5	-	13.1	12.9
	1955-56	-	-	-	4.1	23.1	18.8	-	9.5	9.3
	1956-57	-	-	0.2	18.3	43.2	84.0	-	31.4	31.3
	1957-58	-	-	-	6.5	58.3	77.7	-	27.2	27.1
	1958-59	-	-	-	22.7	65.9	86.8	-	40.4	40.4
	1959-60	-	-	1.6	37.8	82.4	94.9	-	46.1	46.1
	1960-61	0.3	-	12.7	62.3	52.9	34.3	-	34.2	34.2
	1961-62	-	-	7.0	72.3	64.2	75.6	-	37.4	37.4
	1962-63	-	-	-	-	-	-	-	-	-
	1963-64	-	0.3	33.3	96.4	95.2	95.0	-	40.5	40.1
<i>Sperm-whales</i> {	1954-55	1.0	0.7	4.3	2.0	1.0	6.8	-	2.5	2.5
	1955-56	1.1	1.3	1.1	4.1	2.6	5.4	-	3.1	3.1
	1956-57	-	4.0	2.6	3.6	3.0	2.4	-	2.8	2.7
	1957-58	13.2	0.2	2.3	3.6	11.3	12.5	-	6.6	6.6
	1958-59	-	1.7	13.0	13.6	14.5	6.8	-	8.6	8.5
	1959-60	0.6	0.9	2.0	7.9	4.9	2.5	-	3.8	3.8
	1960-61	-	21.9	10.5	3.5	3.1	6.3	-	5.9	5.7
	1961-62	2.7	5.0	0.5	8.7	7.9	17.8	-	7.2	7.2
	1962-63	-	-	-	-	-	-	-	-	-
	1963-64	8.4	8.6	9.8	0.9	2.8	5.0	-	5.9	5.8

Table r.—South Georgia. Catch of immature and mature whales 1954/55—1963/64.

	1954—55.		1955—56.		1956—57.		1957—58.		1958—59		1959—60.		1960—61.		1961—62.		1962—63.		1963—64.	
	Number of whales.	Per cent.	Number of whales.	Per cent.	Number of whales.	Per cent.	Number of whales.	Per cent.	Number of whales.	Per cent.	Number of whales.	Per cent.	Number of whales.	Per cent.	Number of whales.	Per cent.	Number of whales.	Per cent.	Number of whales.	Per cent.
Blue-whales.																				
Immature males	4	66.7	1	100.0	5	100.0	4	100.0	1	100.0	3	100.0	1	100.0	-	-	-	-	-	-
females	7	100.0	-	-	1	50.0	1	50.0	-	-	4	66.7	2	66.7	-	-	-	-	-	-
animals	11	84.6	1	33.3	6	85.7	5	83.3	1	100.0	7	77.8	3	75.0	-	-	-	-	-	-
Mature males	2	33.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
females	-	-	2	100.0	1	50.0	1	50.0	-	-	2	33.3	1	33.3	-	-	-	-	-	-
animals	2	15.4	2	66.7	1	14.3	1	16.7	-	-	2	22.2	1	25.0	-	-	-	-	-	-
Fin-whales.																				
Immature males	584	47.6	515	41.9	489	51.7	366	38.4	228	39.9	159	35.7	322	48.5	179	59.5	-	-	72	33.3
females	605	42.0	583	41.9	537	50.3	402	31.9	222	31.5	226	32.4	347	50.0	207	58.3	-	-	91	28.0
animals	1,189	44.5	1,098	41.9	1,026	51.0	768	34.7	450	35.3	385	33.7	669	49.3	386	58.8	-	-	163	30.1
Mature males	643	52.4	715	58.1	457	48.3	588	61.6	344	60.1	286	64.3	342	51.5	122	40.5	-	-	144	66.7
females	837	58.0	808	58.1	530	49.7	859	68.1	482	68.5	472	67.6	347	50.0	148	41.7	-	-	234	72.0
animals	1,480	55.5	1,523	58.1	987	49.0	1,447	65.3	826	64.7	758	66.3	689	50.7	270	41.2	-	-	378	69.9

Table s.—Antarctic whaling results for the various countries 1950/51—1963/64.

Years.	All countries.		Norway.		United Kingdom.		South Africa.		Japan.	
	Number of whales.	Oil production.	Number of whales.	Oil production.	Number of whales.	Oil production.	Number of whales.	Oil production.	Number of whales.	Oil production.
		Barrels. ¹⁾		Barrels.		Barrels		Barrels.		Barrels.
1950-51	33,997	2,303,690	16,844	1,116,384	6,227	474,330	2,541	161,911	2,741	170,596
1951-52	35,237	2,479,180	15,650	1,136,643	6,938	500,254	2,494	185,962	3,831	259,476
1952-53	30,653	2,118,097	11,240	813,979	6,964	491,012	2,460	150,455	2,645	207,335
1953-54	34,872	2,285,720	14,928	1,027,807	7,620	537,774	2,226	147,271	4,218	252,677
1954-55	37,654	2,242,555	14,491	869,241	7,912	471,315	1,696	99,809	5,958	366,915
1955-56	38,580	2,307,171	14,510	852,482	7,444	474,760	2,184	109,539	6,462	408,853
1956-57	36,115	2,246,922	15,043	1,004,373	6,266	381,931	1,596	86,586	8,093	492,507
1957-58	39,896	2,317,638	13,289	853,810	7,080	400,705	—	—	11,763	627,849
1958-59	38,890	2,152,659	14,071	826,037	5,425	293,660	—	—	12,558	646,130
1959-60	38,892	2,148,438	11,324	681,330	5,165	288,117	—	—	12,359	617,141
1960-61	41,289	2,232,884	12,490	743,298	5,813	306,199	—	—	13,592	667,350
1961-62	38,555	2,051,776	9,304	568,768	4,324	212,367	—	—	14,351	735,895
1962-63	30,182	1,495,779	4,582	224,199	1,552	79,222	—	—	13,617	716,838
1963-64	30,043	1,340,758	5,631	247,432	—	—	—	—	13,515	666,676
<i>In per cent</i>	%	%	%	%	%	%	%	%	%	%
1950-51	100.0	100.0	49.5	48.5	18.3	20.6	7.5	7.0	8.1	7.4
1951-52	100.0	100.0	44.4	45.8	19.7	20.2	7.1	7.5	10.9	10.5
1952-53	100.0	100.0	36.7	38.4	22.8	23.2	8.0	7.1	8.6	9.8
1953-54	100.0	100.0	42.8	45.0	21.8	23.5	6.4	6.5	12.1	11.0
1954-55	100.0	100.0	38.5	38.8	21.0	21.0	4.5	4.5	15.8	16.3
1955-56	100.0	100.0	37.6	36.9	19.3	20.6	5.7	4.7	16.7	17.7
1956-57	100.0	100.0	41.6	44.7	17.4	17.0	4.4	3.9	22.4	21.9
1957-58	100.0	100.0	33.3	36.8	17.7	17.3	—	—	29.5	27.1
1958-59	100.0	100.0	36.2	38.4	13.9	13.6	—	—	32.3	30.0
1959-60	100.0	100.0	29.1	31.7	13.3	13.4	—	—	31.8	28.7
1960-61	100.0	100.0	30.2	33.3	2) 14.1	2) 13.7	—	—	32.9	29.9
1961-62	100.0	100.0	24.2	27.7	2) 11.2	2) 10.4	—	—	37.2	35.9
1962-63	100.0	100.0	15.2	15.0	5.1	5.3	—	—	45.1	47.9
1963-64	100.0	100.0	18.7	18.5	—	—	—	—	45.0	49.7

1), 2) See notes on next page.

Table 5 (continued).

Years.	Argentina.		Panama.		Netherlands.		U.S.S.R.	
	Number of whales.	Oil production.	Number of whales.	Oil production.	Number of whales.	Oil production.	Number of whales.	Oil production.
		Barrels.		Barrels.		Barrels.		Barrels.
1950-51	796	40,593	1,497	126,522	1,660	103,560	1,691	109,894
1951-52	798	41,825	1,408	97,073	1,650	110,300	2,468	147,647
1952-53	678	32,187	2,365	164,150	1,575	103,710	2,726	155,249
1953-54	1,083	53,478	-	-	1,711	97,596	3,086	169,117
1954-55	947	50,568	2,512	147,880	848	64,739	3,290	172,088
1955-56	812	43,376	2,730	160,960	1,665	103,465	2,773	153,736
1956-57	1,108	51,330	-	-	1,409	92,489	2,600	137,706
1957-58	1,860	94,199	-	-	1,867	116,497	4,037	224,578
1958-59	923	39,130	-	-	2,226	126,488	3,687	220,914
1959-60	932	40,500	-	-	2,081	143,050	7,031	378,300
1960-61	-	-	-	-	2,212	139,774	7,182	376,263
1961-62	-	-	-	-	1,628	90,305	8,948	444,441
1962-63	-	-	-	-	1,301	79,515	9,130	396,005
1963-64	-	-	-	-	1,182	63,382	9,715	363,268
<i>In per cent</i>	%	%	%	%	%	%	%	%
1950-51	2.3	1.7	4.4	5.5	4.9	4.5	5.0	4.8
1951-52	2.2	1.7	4.0	3.9	4.7	4.4	7.0	6.0
1952-53	2.2	1.5	7.7	7.8	5.1	4.9	8.9	7.3
1953-54	3.1	2.3	-	-	4.9	4.3	8.9	7.4
1954-55	2.5	2.2	6.7	6.6	2.3	2.9	8.7	7.7
1955-56	2.1	1.9	7.1	7.0	4.3	4.5	7.2	6.7
1956-57	3.1	2.3	-	-	3.9	4.1	7.2	6.1
1957-58	4.7	4.1	-	-	4.7	5.0	10.1	9.7
1958-59	2.4	1.8	-	-	5.7	5.9	9.5	10.3
1959-60	2.4	1.9	-	-	5.3	6.7	18.1	17.6
1960-61	-	-	-	-	5.4	6.3	17.4	16.8
1961-62	-	-	-	-	4.2	4.4	23.2	21.6
1962-63	-	-	-	-	4.3	5.3	30.3	26.5
1963-64	-	-	-	-	3.9	4.7	32.4	27.1

¹) Barrel = 170 kg. (Barrel = abt. 1/5 long ton. 1 long ton = 1,016 kg.) ²) Including the catch and production of one British company registered at Falkland Islands, in 1960-61 1,262 whales and 58,016 barrels of oil or 3.1 and 2.6 per cent, respectively, in 1961-62 1,194 whales and 49,815 barrels of oil or 3.1 and 2.4 per cent, respectively.

Table t.—Production of by-products in the Antarctic whaling in the seasons 1946/47—1963/64.

By-products Seasons Countries	Whale meat-meal, bone-meal, grax meal, guano	Whale liver or liver flakes	Liver- oil	Liver meal	Whale meat, blubber, ventral grooves	Whale solubles	Other by- products ¹⁾
	Long tons	L. tons	L. tons	L. tons	L. tons	L. tons	L. tons
1946-47 Total	19,302	671	79	380	21,914	-	137
1947-48 Total	24,460	918	112	495	30,062	-	1,369
1948-49 Total	26,792	1,173	166	596	39,635	-	2,215
1949-50 Total	25,852	817	250	573	46,824	779	1,629
1950-51 Total	25,821	841	264	622	28,389	2,444	990
1951-52 Total	24,116	823	195	435	28,299	5,760	874
1952-53 Total	25,584	601	155	456	28,581	5,390	191
1953-54 Total	35,660	185	199	385	34,792	9,885	2,072
1954-55 Total	35,519	669	218	115	42,681	8,508	3,956
1955-56 Total	43,189	755	252	162	45,835	7,546	2,815
1956-57 Total	42,735	692	255	156	70,720	6,526	4,871
1957-58 Total	44,914	595	238	113	85,595	9,633	12,100
1958-59 Total	41,284	645	187	138	78,658	2,153	21,280
<i>1959-60.</i>							
Norway	9,142	10	26	-	2,159	-	995
United Kingdom ..	18,129	-	4	-	6,080	1,038	1,197
Netherlands	4,635	-	11	-	1,699	-	55
U.S.S.R.	12,150	1,306	-	-	2,106	-	-
Japan	2,810	-	90	-	83,953	-	20,401
Argentina	6,158	-	-	-	-	-	3
Total	53,024	1,316	131	-	95,997	1,038	22,651
<i>1960-61.</i>							
Norway	6,580	5	12	-	4,954	-	1,474
United Kingdom .. ²⁾	24,015	-	-	-	715	2,169	1,325
Netherlands	3,885	544	-	-	7,332	-	45
U.S.S.R.	14,853	1,388	12	-	6,924	-	-
Japan	6,698	-	110	-	104,773	-	26,874
Total	56,031	1,937	134	-	124,698	2,169	29,718
<i>1961-62.</i>							
Norway	5,138	28	3	-	20,999	-	386
United Kingdom .. ³⁾	16,874	-	8	-	-	-	566
Netherlands	1,702	402	-	-	8,970	-	30
U.S.S.R.	17,843	1,876	12	-	12,683	-	-
Japan	6,139	30	79	-	136,018	-	39,003
Total	47,696	2,336	102	-	178,670	-	39,985
<i>1962-63.</i>							
Norway	2,815	-	-	-	21,643	-	52
United Kingdom ..	4,942	-	-	-	-	-	406
Netherlands	1,275	334	-	-	7,793	-	60
U.S.S.R.	19,139	1,160	-	-	13,229	-	-
Japan	7,332	196	87	-	121,023	-	28,174
Total	35,503	1,690	87	-	163,688	-	28,692
<i>1963-64.</i>							
Norway	4,260	-	-	-	21,125	-	968
Netherlands	977	317	-	-	6,922	-	48
U.S.S.R.	18,142	2,178	-	-	14,742	-	-
Japan	8,276	197	97	-	130,947	-	26,657
Total	31,655	2,692	97	-	173,736	-	27,673

¹⁾ Products such as: Teeth, baleen, ambergris, pancreas, processed bone, bone fertilizer, protein, hypophyses, internal organs, blubber for leather, gelatin material, tail flukes, whale meat-extract etc. ²⁾ Including 6,321 long-tons whale meal and 715 long tons whale meat etc. produced by a British company registered at Falkland Islands. ³⁾ Incl. 7,168 long tons whale meal produced by a British company registered at Falkland Islands.

Oil production by participating countries.

In table s, pages 33 and 34, the total whaling results in the Antarctic during the seasons 1950/51–1963/64 have been distributed in respect to the individual participating countries. During the last 4 seasons the percentage proportion of the oil production of the individual countries has been as follows:

Countries	Oil production during the last 4 seasons			
	1960/61 Per cent	1961/62 Per cent	1962/63 Per cent	1963/64 Per cent
Norway	33.3	27.7	15.0	18.5
United Kingdom	13.7	10.4	5.3	—
Japan	29.9	35.9	47.9	49.7
U.S.S.R.	16.8	21.6	26.5	27.1
Netherlands	6.3	4.4	5.3	4.7
Total	100.0	100.0	100.0	100.0

Oil production per blue-whale unit.

The average output of oil per blue-whale unit from and including the season 1945–46 has been recorded in table u, page 37. For the pelagic expeditions the average output was 121.9 barrels in 1963–64 against 114.6 and 118.1 barrels during the two preceding seasons. In the survey below is given the average output of oil per blue-whale unit in the individual areas from 1958–59:

Season	Average oil output per blue-whale unit during the last 6 seasons						Total Barrels
	Area II Barrels	Area III Barrels	Area IV Barrels	Area V Barrels	Area VI Barrels	Area I Barrels	
1958–59 ..	131.0	123.6	107.0	112.3	117.7	—	118.2
1959–60 ..	132.2	128.9	101.3	120.2	121.1	117.7	120.5
1960–61 ..	140.3	112.8	101.9	115.1	110.1	108.5	116.9
1961–62 ..	136.7	111.5	95.8	114.7	120.7	125.0	118.1
1962–63 ..	131.0	106.1	105.9	122.8	103.2	114.4	114.6
1963–64 ..	130.3	112.8	101.4	109.9	—	—	122.0

The highest yield in the season 1963–64 was in Area II with 130.3 barrels. Next came Area III with 112.8 barrels.

Table v, page 37, is recording the average weekly production per blue-whale unit for the pelagic expeditions during the seasons 1962–63 and 1963–64.

By-products.

In table t, page 35, detailed information is given on the production of by-products in the Antarctic during the post-war seasons. From and including the season 1959–60 the figures are distributed in respect to the

Table u.—Average production of oil per blue-whale unit.¹⁾

Years.	South Georgia.	Pelagic whaling.	Years.	South Georgia.	Pelagic whaling.
	Barrels ²⁾	Barrels ²⁾		Barrels	Barrels
1945-46.....	83.1	98.6	1956-57.....	122.9	128.7
1946-47.....	112.5	113.1	1957-58.....	126.9	124.9
1947-48.....	128.3	111.2	1958-59.....	114.0	118.2
1948-49.....	126.5	115.9	1959-60.....	123.0	120.5
1949-50.....	115.0	118.6	1960-61.....	127.2	116.9
1950-51.....	121.5	117.3	1961-62.....	112.9	118.1
1951-52.....	127.6	129.4	1962-63.....	-	114.6
1952-53.....	126.3	128.0	1963-64.....	112.1	122.0
1953-54.....	121.1	128.6			
1954-55.....	124.6	117.3			
1955-56.....	123.6	121.6			

¹⁾ Other whales are reduced to blue-whale units on the following basis: — 1 blue-whale = 2 fin-whales = 2½ humpbacks = 6 sei-whales. ²⁾ Barrel = 170 kg. (Barrel = abt. 1/6 long ton. 1 long ton = 1,016 kg.)

Table v.—Average weekly production of whale-oil per blue-whale unit in the pelagic whaling 1962-63 and 1963-64.

Season 1962-63.				Season 1963-64.			
Week ending	Production of whale-oil.	Number of blue-whale units.	Prod. per blue-whale unit.	Week ending	Production of whale-oil.	Number of blue-whale units.	Prod. per blue-whale unit.
	Barrels.		Barrels.		Barrels.		Barrels.
22/12 1962	106,562	1,127.4	94.5	21/12 1963	90,951	845.5	107.6
29/12 "	58,377	510.3	114.4	28/12 "	58,596	479.2	122.3
5/1 1963	76,572	691.3	110.8	4/1 1964	39,212	399.0	98.3
12/1 "	72,678	599.3	121.3	11/1 "	76,148	615.1	123.8
19/1 "	81,085	688.8	117.7	18/1 "	92,412	807.0	114.5
26/1 "	84,901	720.2	117.9	25/1 "	73,725	526.3	140.1
2/2 "	112,525	995.9	113.0	1/2 "	65,622	546.4	120.1
9/2 "	96,356	785.8	122.6	8/2 "	80,569	677.5	118.9
16/2 "	105,716	877.8	120.4	15/2 "	78,330	651.2	120.3
23/2 "	115,303	925.0	124.7	22/2 "	58,981	469.2	125.7
2/3 "	85,286	722.8	118.0	29/2 "	82,361	688.3	119.7
9/3 "	90,647	714.0	127.0	7/3 "	75,490	570.4	132.3
16/3 "	60,000	558.1	107.5	14/3 "	60,788	465.5	130.6
23/3 "	69,422	582.7	119.1	21/3 "	44,311	340.2	130.2
30/3 "	39,252	404.7	97.0	28/3 "	27,163	201.4	134.9
7/4 "	38,229	402.2	95.0	7/4 "	19,815	165.3	119.9
Total	1,292,911	11,306.3	114.4	Total	1,024,474	8,447.5	121.3

individual countries. In the last season the production of whale meat incl. blubber for food amounted to 173,736 tons as compared with 163,688 tons in 1962-63. Of whale meal there was produced 31,655 tons in 1963-64 against 35,503 tons in the preceding season.

Whaling fleet crews.

From the survey on next page will be seen the number of men of different nationalities employed in the Antarctic whaling industry during the 3 latest seasons. The figures include the crews on the freezing- and refrigeratorships operating in the Antarctic.

Number of men employed in the Antarctic whaling industry:

Nationalities	Season 1961/62		Season 1962/63		Season 1963/64	
	Number	Per cent	Number	Per cent	Number	Per cent
Norwegian	4,557	23	2,045	12	1,770	11
British	559	3	264	2	21	—
Japanese	9,748	50	9,676	58	8,845	58
Russian ¹⁾	4,050	20	4,100	24	4,100	27
Others ²⁾	727	4	607	4	606	4
Total	19,641	100	16,692	100	15,342	100

¹⁾ Estimated. ²⁾ Incl. also men whose nationality is unknown.

TABLES
Antarctic season 1963/64.

Table No. 1.—Whaling in the Antarctic in the season 1963/64.

Geographical areas.	Species of whales caught.						Oil production.	Expeditions.		
	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Total of whales.		Shore stations.	Floating factories.	Catchers.
South Georgia	—	552	—	409	60	1,021	41,282	2	—	³⁾ 16
Antarctic, pelagic whaling	112	13,870	2	8,286	6,651	²⁾ 28,921	1,299,476	—	16	190
Total	112	14,422	2	8,695	6,711	29,942	1,340,758	2	16	194

¹⁾ Barrel = 170 kg. (Barrel = abt. $\frac{1}{8}$ long ton, 1 long ton = 1,016 kg.) ²⁾ In addition 101 Minke-whales and 10 Killer-whales were taken. ³⁾ 12 of these catchers were also operating for the pelagic expeditions.

Table No. 2.—Whaling results for the various countries in the Antarctic in the season 1963/64.

Countries. Geographical areas.	Species of whales caught.						Oil production.	Expeditions.		
	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Total of whales.		Shore stations.	Floating factories.	Catchers.
Japan:—							Barrels ¹⁾			
South Georgia . .	—	552	—	409	60	1,021	41,282	2	—	⁴⁾ 16
Antarctic, pelagic	38	8,444	—	2,039	1,877	²⁾ 12,398	625,394	—	7	78
U.S.S.R.:—										
Antarctic, pelagic	74	2,724	—	3,390	3,522	³⁾ 9,710	363,268	—	4	68
Norway:—										
Antarctic, pelagic	—	2,097	—	2,617	917	5,631	247,432	—	4	33
Netherlands:—										
Antarctic, pelagic	—	605	2	240	335	1,182	63,382	—	1	11
Total	112	14,422	2	8,695	6,711	29,942	1,340,758	2	16	194

¹⁾ Barrel = 170 kg. (Barrel = abt. $\frac{1}{8}$ long ton, 1 long ton = 1,016 kg.) ²⁾ In addition 96 Minke-whales were caught. ³⁾ In addition 5 Minke-whales and 10 Killer-whales were caught. ⁴⁾ 12 of these catchers were also operating for the pelagic expeditions.

Table No. 3.—Average size of whales caught in the Antarctic in the season 1963/64.

Geographical areas. Number of whales measured.	Company.	Average size.		
		Males.	Females.	Total animals.
		Engl. feet.	Engl. feet.	Engl. feet.
<u>Blue-whales.</u>				
<i>Antarctic, pelagic whaling</i>	No. 1	74.50	95.00	81.33
Males 54 } Total 112.	" 2	70.00	77.25	74.83
Females 58 }	" 3	71.76	73.00	72.25
	" 4	—	70.00	70.00
	" 5	68.39	69.47	68.97
	" 6	66.00	69.80	68.71
Average		69.65	71.16	70.43
<u>Fin-whales.</u>				
<i>South Georgia</i>	No. 1	63.98	68.87	67.02
Males 216 } Total 541.	" 2	64.40	68.38	66.63
Females 325 }				
Average		64.14	68.71	66.89
<i>Antarctic, pelagic whaling</i>	No. 1	66.50	70.63	68.59
Males 6,399 } Total 13,853.	" 2	66.60	69.46	68.07
Females 7,454 }	" 3	65.87	70.16	68.04
	" 4	64.91	69.44	67.49
	" 5	65.44	69.25	67.32
	" 6	64.36	69.41	67.28
	" 7	64.65	69.19	67.11
	" 8	64.52	68.23	66.74
	" 9	63.98	68.21	66.39
	" 10	64.51	67.66	66.19
	" 11	64.82	67.54	66.11
	" 12	63.52	67.92	66.01
	" 13	64.34	66.37	65.39
	" 14	63.32	67.23	65.18
	" 15	63.53	67.37	65.11
	" 16	63.20	64.93	64.09
Average		64.70	68.59	66.79
<u>Humpbacks.</u>				
<i>Antarctic, pelagic whaling</i>	No. 1	—	40.00	40.00
Females 2.				

Table No. 3 (continued).

Geographical areas. Number of whales measured.	Company.	Average size.		
		Males.	Females.	Total animals.
		Engl. feet.	Engl. feet.	Engl. feet.
Sei-whales.				
<i>South Georgia</i>	No. 1	48.32	51.21	49.81
Males 198 } Total 409.				
Females 211 }				
<i>Antarctic, pelagic whaling</i>	No. 1	49.22	52.11	50.62
Males 4,201 } Total 8,256.	" 2	49.37	51.64	50.37
Females 4,055 }	" 3	49.03	51.47	50.30
	" 4	48.70	51.29	49.92
	" 5	48.11	51.29	49.84
	" 6	48.46	50.88	49.63
	" 7	48.61	50.62	49.61
	" 8	48.63	50.44	49.46
	" 9	48.23	50.52	49.43
	" 10	48.37	50.35	49.33
	" 11	48.20	50.28	49.27
	" 12	48.05	50.22	49.03
	" 13	47.78	50.35	48.99
	" 14	47.82	49.62	48.77
	" 15	47.53	49.79	48.45
	" 16	47.12	48.21	47.65
Average		48.45	50.83	49.62
Sperm-whales.				
<i>South Georgia</i>	No. 1	48.97	—	48.97
Males 60.	" 2	48.32	—	48.32
Average		48.67	—	48.67
<i>Antarctic, pelagic whaling</i>	No. 1	48.77	—	48.77
Males 6,292 } Total 6,639.	" 2	48.59	—	48.59
Females 347 }	" 3	48.03	—	48.03
	" 4	47.00	—	47.00
	" 5	46.51	—	46.51
	" 6	46.49	—	46.49
	" 7	46.36	—	46.36
	" 8	46.33	—	46.33
	" 9	45.15	—	45.15
	" 10	45.05	38.00	45.03
	" 11	44.17	—	44.17
	" 12	44.32	38.58	43.04
	" 13	42.77	—	42.77
	" 14	42.06	—	42.06
	" 15	41.53	—	41.53
	" 16	41.56	37.47	41.04
Average		45.30	38.58	45.67

Table No. 4.—Whales caught in the Antarctic in the season 1963/64, by species, sex and size.

Total Antarctic.

Blue-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
63	1	—	1	78	—	2	2
64	—	1	1	79	—	1	1
65	3	3	6	82	—	1	1
66	7	3	10	95	—	1	1
67	3	3	6	Sum	54	58	112
68	6	4	10	Average size { Males: 69.65 feet Females: 71.16 „ Total animals: 70.43 „ Per cent { Males: 48.21 Females: 51.79			
69	2	3	5				
70	7	8	15				
71	9	11	20				
72	12	9	21				
73	1	3	4				
74	1	5	6				
77	2	—	2				

Fin-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
46	1	—	1	70	450	427	877
47	1	—	1	71	259	527	786
48	—	1	1	72	149	595	744
49	3	—	3	73	97	800	897
50	—	2	2	74	32	556	588
51	—	3	3	75	8	510	518
52	6	2	8	76	2	362	364
53	7	5	12	77	7	211	218
54	7	6	13	78	—	112	112
55	10	11	21	79	—	70	70
56	22	11	33	80	1	17	18
57	468	356	824	81	—	8	8
58	366	249	615	82	1	2	3
59	343	252	595	83	—	1	1
60	295	255	550	Sum	6,615	7,779	14,394
61	295	230	525	Average size { Males: 64.68 feet Females: 68.59 „ Total animals: 66.79 „ Per cent { Males: 45.96 Females: 54.04			
62	344	272	616				
63	369	254	623				
64	364	254	618				
65	432	256	688				
66	611	296	907				
67	604	269	873				
68	547	291	838				
69	514	306	820				

Humpbacks.

2 females, each of 40 feet.

Table No. 4 (continued).

Sei-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
34	—	1	1	54	17	333	350
40	25	19	44	55	5	185	190
41	31	23	54	56	—	66	66
42	33	22	55	57	1	18	19
43	73	32	105	58	—	6	6
44	69	35	104	60	—	1	1
45	146	59	205				
46	347	81	428				
47	540	154	694	Sum	4,399	4,266	8,665
48	812	269	1,081				
49	903	416	1,319				
50	726	568	1,294				
51	362	625	987				
52	251	836	1,087				
53	58	517	575				
				Average size	{	Males: 48.44 feet	
						Females: 50.85 "	
						Total animals: 49.63 "	
				Per cent	{	Males: 50.77	
						Females: 49.23	

Sperm-whales.

33	—	1	1	51	247	—	247
36	5	1	6	52	191	—	191
37	4	3	7	53	69	—	69
38	228	155	383	54	31	—	31
39	371	167	538	55	18	—	18
40	240	17	257	56	3	—	3
41	224	3	227	57	1	—	1
42	244	—	244				
43	416	—	416	Sum	6,352	347	6,699
44	436	—	436				
45	552	—	552				
46	688	—	688				
47	723	—	723				
48	644	—	644				
49	564	—	564				
50	453	—	453				
				Average size	{	Males: 45.70 feet	
						Females: 38.58 "	
						Total animals: 45.33 "	
				Per cent	{	Males: 94.82	
						Females: 5.18	

a. South Georgia.

Fin-whales.

52	2	—	2	70	7	16	23
53	—	1	1	71	6	15	21
54	1	—	1	72	—	26	26
55	2	—	2	73	2	33	35
56	4	3	7	74	1	27	28
57	7	7	14	75	—	19	19
58	11	6	17	76	—	17	17
59	7	12	19	77	—	9	9
60	11	10	21	78	—	4	4
61	14	10	24	79	—	2	2
62	13	12	25	81	—	1	1
63	18	11	29				
64	12	19	31	Sum	216	325	1) 541
65	24	12	36				
66	17	10	27				
67	23	13	36				
68	15	13	28				
69	19	17	36				
				Average size	{	Males: 64.14 feet	
						Females: 68.71 "	
						Total animals: 66.89 "	
				Per cent	{	Males: 39.93	
						Females: 60.07	

1) In addition 5 fin-whales worked up.

Table No. 4 (continued).

Sei-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
43	5	—	5	55	—	12	12
44	3	5	8	56	—	4	4
45	12	1	13	57	—	1	1
46	14	3	17	58	—	1	1
47	23	5	28	Sum	198	211	409
48	39	14	53	Average size { Males: 48.32 feet Females: 51.21 " Total animals: 49.81 " Per cent { Males: 48.41 Females: 51.59			
49	48	24	72				
50	30	25	55				
51	17	28	45				
52	7	39	46				
53	—	31	31				
54	—	18	18				

Sperm-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
43	1	—	1	53	1	—	1
44	5	—	5	54	2	—	2
45	3	—	3	55	2	—	2
46	3	—	3	57	1	—	1
47	10	—	10	Sum	60	—	60
48	8	—	8	Average size: Males: 48.67 feet.			
49	8	—	8				
50	8	—	8				
51	6	—	6				
52	2	—	2				

b. Antarctic, pelagic.

Blue-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
63	1	—	1	78	—	2	2
64	—	1	1	79	—	1	1
65	3	3	6	82	—	1	1
66	7	3	10	95	—	1	1
67	3	3	6	Sum	54	58	112
68	6	4	10	Average size { Males: 69.65 feet Females: 71.16 " Total animals: 70.43 " Per cent { Males: 48.21 Females: 51.79			
69	2	3	5				
70	7	8	15				
71	9	11	20				
72	12	9	21				
73	1	3	4				
74	1	5	6				
77	2	—	2				

Table No. 4 (continued).

Fin-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
46	1	—	1	70	443	411	854
47	1	—	1	71	253	512	765
48	—	1	1	72	149	569	718
49	3	—	3	73	95	767	862
50	—	2	2	74	31	529	560
51	—	3	3	75	8	491	499
52	4	2	6	76	2	345	347
53	7	4	11	77	7	202	209
54	6	6	12	78	—	108	108
55	8	11	19	79	—	68	68
56	18	8	26	80	1	17	18
57	461	349	810	81	—	7	7
58	355	243	598	82	1	2	3
59	336	240	576	83	—	1	1
60	284	245	529				
61	281	220	501	Sum	6,399	7,454	13,853
62	331	260	591				
63	351	243	594				
64	352	235	587	Average size	{ Males: 64.70 feet		
65	408	244	652		{ Females: 68.59 "		
66	594	286	880		{ Total animals: 66.79 "		
67	581	256	837	Per cent	{ Males: 46.19		
68	532	278	810		{ Females: 53.81		
69	495	289	784				

Humpbacks.

2 females, each of 40 feet.

Sei-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
34	—	1	1	54	17	315	332
40	25	19	44	55	5	173	178
41	31	23	54	56	—	62	62
42	33	22	55	57	1	17	18
43	68	32	100	58	—	5	5
44	66	30	96	60	—	1	1
45	134	58	192				
46	333	78	411	Sum	4,201	4,055	8,256
47	517	149	666				
48	773	255	1,028	Average size	{ Males: 48.45 feet		
49	855	392	1,247		{ Females: 50.83 "		
50	696	543	1,239		{ Total animals: 49.62 "		
51	345	597	942	Per cent	{ Males: 50.88		
52	244	797	1,041		{ Females: 49.12		
53	58	486	544				

Table No. 4 (continued).

Sperm-whales.							
Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
33	—	1	1	50	445	—	445
36	5	1	6	51	241	—	241
37	4	3	7	52	189	—	189
38	228	155	383	53	68	—	68
39	371	167	538	54	29	—	29
40	240	17	257	55	16	—	16
41	224	3	227	56	3	—	3
42	244	—	244				
43	415	—	415	Sum	6,292	347	6,639
44	431	—	431				
45	549	—	549	Average size	{ Males: 45.67 feet Females: 38.58 " Total animals: 45.30 "		
46	685	—	685	Per cent	{ Males: 94.77 Females: 5.23		
47	713	—	713				
48	636	—	636				
49	556	—	556				

Table No. 5.—Whales caught in the Antarctic in the season 1963/64, by species, sex and groups of size.

Total Antarctic.		
Blue-whales.		
	Number of whales.	Per cent.
Group 1. (70 feet and less)	54	48.22
„ 2. (71 feet to and incl. 85 feet)	57	50.89
„ 3. (above 85 feet)	1	0.89
	112	100.00
Immature males	1)	1)
„ females		
„ animals		
Mature males	1)	1)
„ females		
„ animals		
1) Data not available.		
Fin-whales.		
Group 1. (55 feet and less)	65	0.45
„ 2. (56 feet to and incl. 65 feet)	5,687	39.51
„ 3. (above 65 feet)	8,642	60.04
	14,394	100.00
Immature males	2,168	32.77
„ females	2,163	27.81
„ animals	4,331	30.09
Mature males	4,447	67.23
„ females	5,616	72.19
„ animals	10,063	69.91

Table No. 5 (continued).

**a. South Georgia.
Fin-whales.**

	Number of whales.	Per cent.
Group 1. (55 feet and less)	6	1.11
„ 2. (56 feet to and incl. 65 feet)	223	41.22
„ 3. (above 65 feet)	312	57.67
	541	100.00
Immature males	72	33.33
„ females	91	28.00
„ animals	163	30.13
Mature males	144	66.67
„ females	234	72.00
„ animals	378	69.87

**b. Antarctic, pelagic.
Blue-whales.**

	Number of whales.	Per cent.
Group 1. (70 feet and less)	54	48.22
„ 2. (71 feet to and incl. 85 feet)	57	50.89
„ 3. (above 85 feet)	1	0.89
	112	100.0
Immature males	1)	1)
„ females		
„ animals		
Mature males	1)	1)
„ females		
„ animals		

¹⁾ Data not available.

Fin-whales.

	Number of whales.	Per cent.
Group 1. (55 feet and less)	59	0.43
„ 2. (56 feet to and incl. 65 feet)	5,464	39.44
„ 3. (above 65 feet)	8,330	60.13
	13,853	100.00
Immature males	2,096	32.76
„ females	2,072	27.80
„ animals	4,168	30.09
Mature males	4,303	67.24
„ females	5,382	72.20
„ animals	9,685	69.91

Table No. 6.—Average production of whale oil per blue-whale unit in the Antarctic in the season 1963/64.

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

Geographical areas.	Expedition.	Blue-whale units. ¹⁾	Oil production.	
			Total.	Average per blue-whale unit.
<i>South Georgia</i>	No. 1	161.2	18,882	117.1
	„ 2	180.0	19,359	107.6
	Total	341.2	38,241	112.1
<i>Antarctic, pelagic whaling</i>	No. 1	515.8	75,452	146.3
	„ 2	339.6	47,971	141.3
	„ 3	410.8	56,289	137.0
	„ 4	306.5	40,847	133.3
	„ 5	787.5	102,823	130.6
	„ 6	847.2	107,118	126.4
	„ 7	715.3	89,518	125.1
	„ 8	245.3	30,314	123.6
	„ 9	746.2	89,706	120.2
	„ 10	686.2	80,294	117.0
	„ 11	705.0	81,900	116.2
	„ 12	670.0	76,961	114.9
	„ 13	498.1	53,712	107.8
	„ 14	330.0	33,595	101.8
	„ 15	501.0	50,170	100.1
	„ 16	111.0	9,676	87.2
Total		8,415.5	1,026,346	122.0

¹⁾ This refers to whales worked up. ²⁾ Barrel = 170 kg. (Barrel = abt. ¼ long ton, 1 long ton = 1,016 kg.)

Table No. 7.—Size of pregnant whale females caught in the Antarctic in the season 1963/64.

Blue-whale females.

Length of mothers.	Number of pregnant animals.
Engl. feet.	
69	1
70	1
71	1
74	1
78	1
Total	5

Number of foetuses measured 5.
Total number of blue-whale females measured 58, of which pregnant animals 5, or 8.6 per cent.

Table No. 7 (continued).

Fin-whale females.

Length of mothers.	Number of pregnant animals.	Length of mothers.	Number of pregnant animals.	
Engl. feet.		Engl. feet.		
57	1	73	419	Number of foetuses measured 2,864 of which twin pairs 33 Total number of fin-whale females measured 7,779, of which pregnant animals 2,831, or 36.39 per cent.
59	4	74	319	
61	6	75	266	
62	16	76	198	
63	28	77	121	
64	35	78	57	
65	54	79	42	
66	92	80	11	
67	100	81	3	
68	121	82	1	
69	146	83	1	
70	206			
71	273	Total	2,831	
72	311			

Sei-whale females.

Length of mothers.	Number of pregnant animals.	Length of mothers.	Number of pregnant animals.	
Engl. feet.		Engl. feet.		
43	3	53	274	Number of foetuses measured 2,084 of which twin pairs 41 » » triplets 1 » » quadruplets 1 » » sextuplets 1 Total number of sei-whale females measured 4,266, of which pregnant animals 2,033, or 47.66 per cent.
45	6	54	200	
46	17	55	111	
47	54	56	42	
48	91	57	9	
49	192	58	4	
50	290	60	1	
51	323			
52	416	Total	2,033	

Sperm-whale females.

Length of mothers.	Number of pregnant animals.	
Engl. feet.		
37	1	Number of foetuses measured 74. Total number of sperm-whale females measured 347, of which pregnant animals 74, or 21.3 per cent.
38	40	
39	32	
40	1	
Total	74	

Table No. 8.—Whale foetuses measured in the Antarctic in the season 1963/64, by species and groups of size, in each month.

Blue-whale foetuses.

Groups of size. Engl. feet.	February	March	April	Total
0'—0' 11"	—	—	1	1
10'—10' 11"	—	1	—	1
13'—13' 11"	2	1	—	3
Total blue-whale foetuses	2	2	1	5
Average size of foetuses	13' 8"	11' 6"	0' 2"	10' 1"

Table No. 8 (continued).

Fin-whale foetuses.

Groups of size. Engl. feet.	Oct.	Nov.	Dec.	Jan.	Febr.	March	April	Total
0'—0' 11"	—	2	38	33	8	1	—	82
1'—1' 11"	—	4	57	67	26	4	—	158
2'—2' 11"	2	—	77	96	51	12	1	239
3'—3' 11"	2	2	77	99	60	21	1	262
4'—4' 11"	—	1	53	115	74	22	—	265
5'—5' 11"	—	1	56	115	75	28	—	275
6'—6' 11"	—	—	53	94	67	37	2	253
7'—7' 11"	1	—	43	98	58	36	1	237
8'—8' 11"	—	—	36	87	74	40	1	238
9'—9' 11"	—	—	19	74	58	38	1	190
10'—10' 11"	—	—	11	43	68	37	3	162
11'—11' 11"	—	—	3	36	62	36	3	140
12'—12' 11"	—	—	—	14	55	35	3	107
13'—13' 11"	—	—	—	6	37	30	2	75
14'—14' 11"	—	—	—	2	29	20	—	51
15'—15' 11"	—	—	—	3	24	33	2	62
16'—16' 11"	—	—	—	—	5	16	—	21
17'—17' 11"	—	—	—	1	3	15	—	19
18'—18' 11"	—	—	—	1	—	13	5	19
19'—19' 11"	—	—	—	—	1	3	1	5
20'—20' 11"	—	—	1	—	—	1	—	2
21'—21' 11"	—	—	—	—	—	1	—	1
Total fin-whale foetuses	5	10	524	984	835	479	26	¹⁾ 2,863
Average size of foetuses	3' 10"	2' 11"	4' 6"	¹⁾ 6' 10"	8' 0"	10' 1"	11' 11"	7' 0"

¹⁾ Excluding one fin-whale foetus, length not stated.

Sei-whale foetuses.

Groups of size. Engl. feet.	Dec.	Jan.	Febr.	March.	April.	Total.
0'—0' 11"	1	2	—	—	—	3
1'—1' 11"	7	9	2	—	—	18
2'—2' 11"	16	33	5	1	—	55
3'—3' 11"	31	54	23	3	—	111
4'—4' 11"	29	99	31	10	—	169
5'—5' 11"	10	136	48	19	1	214
6'—6' 11"	8	170	72	25	2	277
7'—7' 11"	3	152	99	27	2	283
8'—8' 11"	—	129	127	47	2	305
9'—9' 11"	—	57	114	51	2	224
10'—10' 11"	—	17	83	67	8	175
11'—11' 11"	—	1	52	55	3	111
12'—12' 11"	—	1	25	61	8	95
13'—13' 11"	—	—	6	17	2	25
14'—14' 11"	—	—	2	6	4	12
15'—15' 11"	—	—	1	3	—	4
16'—16' 11"	—	—	1	—	1	2
17'—17' 11"	—	—	—	1	—	1
Total sei-whale foetuses	105	860	691	393	35	2,084
Average size of foetuses	3' 10"	6' 4"	8' 2"	9' 7"	11' 0"	7' 6"

Table No. 8 (continued).

Sperm-whale foetuses.

Groups of size. Engl. feet.	Nov.	Feb.	March	Total.
0'— 0' 11"	—	8	6	14
1'— 1' 11"	—	18	3	21
2'— 2' 11"	—	1	1	2
3'— 3' 11"	—	1	—	1
8'— 8' 11"	3	—	—	3
9'— 9' 11"	—	—	1	1
10'—10' 11"	3	5	1	9
11'—11' 11"	1	3	—	4
12'—12' 11"	2	5	3	10
13'—13' 11"	—	7	—	7
14'—14' 11"	—	1	1	2
Total sperm-whale foetuses	9	49	16	74
Average size of foetuses	10' 3"	6' 3"	5' 1"	6' 3"

Table No. 9.—Whale foetuses measured in the Antarctic in the season 1963/64, by species and sex, in each month.

Kind of foetuses. Months.	Number of		Sex not stated.	Total foetuses.	Number of males per 100 females.
	males.	females.			
Blue-whale foetuses.					
February	—	2	—	2	—
March	—	2	—	2	—
April	—	1	—	1	—
Total	—	5	—	5	—
Fin-whale foetuses.					
October	2	3	—	5	66.67
November	9	1	—	10	90.00
December	253	266	5	524	95.11
January	495	487	3	985	101.64
February	404	431	—	835	93.74
March	244	235	—	479	103.83
April	8	18	—	26	44.44
Total	1,415	1,441	8	2,864	98.20
Sei-whale foetuses.					
December	52	53	—	105	98.11
January	445	415	—	860	107.23
February	321	369	1	691	86.99
March	195	197	1	393	98.98
April	12	23	—	35	52.17
Total	1,025	1,057	2	2,084	96.97
Sperm-whale foetuses.					
November	6	3	—	9	200.00
February	22	25	2	49	88.00
March	6	10	—	16	60.00
Total	34	38	2	74	89.47

