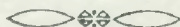


DET NORSKE HVALRÅDS STATISTISKE PUBLIKASJONER

INTERNATIONAL WHALING STATISTICS

LVI

EDITED BY
THE COMMITTEE FOR WHALING STATISTICS



OSLO 1965

Price: kr. 2.00

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PRINTED BY
GRØNDAHL & SØN, OSLO

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PREFACE

The present publication, International Whaling Statistics No. LVI, embraces the results of the Antarctic whaling during the season 1964–65.

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

Oslo, December 1965.

Gunnar Jahn.

Birger Bergersen.

Einar Vangstein.

INTRODUCTION

Regulative provisions.

Since at the meeting of the International Whaling Commission in 1964 agreement was not reached on a maximum catch for the season 1964–65, the representatives of the four whaling countries — Norway, Japan, U.S.S.R. and the Netherlands — decided to respect a maximum catch for the season 1964–65 of 8,000 blue-whale units. After the Netherlands had in 1964 transferred their quota to Japan, the quota allocation for this season was as follows:

Norway	28 per cent = 2,240 blue-whale units
Japan	52 —»— = 4,160 —»—
U.S.S.R.	20 —»— = 1,600 —»—
<hr/>	
Total	100 per cent = 8,000 blue-whale units

The most important regulations governing the pelagic whaling in the season 1964–65 were as follows:

1. The open season for the taking of fin- and sei-whales was from December 12th to April 7th, both days inclusive.
2. At the fifteenth meeting of the International Whaling Commission it was decided:

«It is forbidden to kill or attempt to kill blue-whales in the waters south of 40° South Latitude except in the waters north of 55° South Latitude, from 0° eastwards to 80° East Longitude.»

At the sixteenth meeting it was decided:

«It is forbidden to kill or attempt to kill blue-whales in the waters south of 40° South Latitude.»

This amendment of the Schedule was objected to within the prescribed period by the governments of Japan, The Netherlands, Norway, the United Kingdom and the Union of Soviet Socialist Republics. Consequently expeditions under the flag of these members were in the season 1964–65 allowed to catch blue-whales 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 taking of sperm-whales was 8 months.
4. It was forbidden to take blue-whales under 70 feet, fin-whales under 57 feet, sei-whales under 40 feet and sperm-whales under 38 feet. Further it was forbidden to kill humpback whales, right-whales, grey-whales, and female whales accompanied by a calf.

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 3 and 4, except that the minimum size limit for sperm-whales was 35 feet.

Whaling period.

As mentioned above it was allowed to take fin- and sei-whales from December 12th, inclusive. Two of the Russian expeditions, however, commenced the catch of baleen whales at a later date, as they during the first part of the season caught sperm-whales only. The Japanese and Russian expeditions ceased the operations gradually as the stipulated quotas were reached. The first Japanese factory ship ceased operation on February 28th and the last on April 7th 1965. The first Russian factory ship ceased operation on March 18th and the last on April 1st, 1965. The other factory ships, which did not reach the stipulated quotas, ceased operations on April 7th, which was the latest closing date according to the provisions of the International Whaling Convention.

The whaling period and number of catching days for the pelagic baleen whaling operations in the seasons 1955/56-1964/65 will be seen from the following survey:

Season	Whaling period	Catching days
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
1964-65.....	December 12th-April 7th	117

In the last six seasons some of the expeditions closed their baleen whale operations at an earlier date. The average catching periods were therefore such, as shown on the top of next page:

Season	Average catching period
1959-60	99 days
1960-61	96 »
1961-62	115 »
1962-63	111 »
1963-64	111 »
1964-65	104 »

The whaling period for blue-whales in the seasons 1955/56-1964/65 was from February 1st to April 7th, both days inclusive.

Whaling matériel.

In pelagic whaling during the Antarctic season 1964-65, 15 floating factories with 172 catching boats were in operation. This was one floating factory less than in the previous season, because the Dutch factory ship, which in 1964 was sold to Japan, was not engaged in the season 1964-65. With this exception the same pelagic expeditions participated in the operations in 1964-65 as in 1963-64.

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

Countries	Season 1962-63		Season 1963-64		Season 1964-65	
	Floating factories	Catchers	Floating factories	Catchers	Floating factories	Catchers
Norway	4	32	4	33	4	36
Japan	7	79	7	78	7	71
U. S. S. R.	4	70	4	68	4	65
Netherlands	1	11	1	11	—	—
United Kingdom	1	9	—	—	—	—
Total	17	201	16	190	15	172

As in the season 1963-64 two shore stations on South Georgia were also in 1964-65 leased to Japanese whaling companies. The whaling period for one of the stations was from October 1st to December 4th 1964, while the whaling period for the other station was from October 7th 1964 to March 23rd 1965.

Table a, page 10, gives the number of floating factories and catchers engaged in pelagic whaling since the season 1946-47. The table also shows the average gross tonnage of the floating factories and the average tonnage and engine power of the catchers.

From the survey at the bottom of next page will be seen the number of floating factories, the number of catchers and the average number of catchers engaged pr. floating factory from and including the season 1946-47.

Table a.—Number and gross tonnage of floating factories and catchers engaged in pelagic whaling in the Antarctic 1946/47—1964/65.

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.
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
1964-65....	15	312,302	20,820	172	123,005	715	3,041

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

Season	Number of floating factories	Number of catchers	Average number of catchers per floating factory
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
1964-65	15	172	11.5

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

Countries	Average number of catchers per floating factory			
	Season 1961—62	Season 1962—63	Season 1963—64	Season 1964—65
Norway	10.1	8.0	8.3	9.0
Japan	12.3	11.3	11.1	10.1
U.S.S.R.	16.8	17.5	17.0	16.3
Netherlands	15.0	11.0	11.0	—
United Kingdom	11.0	9.0	—	—
Total	12.4	11.8	11.9	11.5

Catch results.

During the season 1964—65 the pelagic expeditions caught in all 31,413 whales in the Antarctic, of which 47 were lost. Thus the number of whales actually processed was 31,366, as will be seen from the following survey:

Species of whales	Whales captured	Lost whales	Processed whales	Captured whales in blue-whale units
Blue-whales	20	—	20	20.0
Fin-whales	7,308	2	7,306	3,654.0
Sei-whales	19,874	36	19,838	3,312.1
Total baleen whales	27,202	38	27,164	6,986.1
Sperm-whales	4,211	9	4,202	—
Total of whales	31,413	47	31,366	6,986.1

The pelagically caught baleen whales converted into blue-whale units amounted to 6,986.1 units in the season 1964—65 as compared with 8,429 units in 1963—64. 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

(Cont. on next page.)

Season	Catch in blue-whale units	Agreed maximum quota Blue-whale units
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
1964-65	6,986.1	8,000

1) No maximum quota.

In the season 1964-65 the pelagic expeditions in the Antarctic processed 6,979 blue-whale units yielding 844,457 barrels of whale-oil, and 4,202 sperm-whales yielding 173,154 barrels of sperm-oil.

The catch in blue-whale units in the last three seasons apportioned between the individual countries was as follows:

Countries	Catch in blue-whale units		
	Season 1962-63	Season 1963-64	Season 1964-65
Norway	1,380.5	1,484.5	1,273.4
Japan	6,149.6	4,600.1	4,124.6
U.S.S.R.	2,816.0	2,001.1	1,588.1
Netherlands	457.5	343.3	—
United Kingdom	502.5	—	—
Total	11,306.1	8,429.0	6,986.1

In addition Japan was operating from two shore stations on South Georgia in each of the seasons 1963-64 and 1964-65 and had a catch resulting in 344.2 and 335.8 blue-whale units, respectively.

The total whaling results in the Antarctic from 1946-47 up to and including 1964-65 are given in table b, page 13. In table c, page 13, the pelagic results during the same period have been recorded separately.

As will appear from table c the pelagic baleen whale catch in the Antarctic has during the two last seasons been based almost exclusively on fin- and sei-whales. While in the last season the fin-whale catch declined to 7,308 animals from 13,870 in 1963-64, the sei-whale catch, on the other hand, increased to 19,874 animals from 8,286 in 1963-64. This considerable increase in the catch of sei-whales is due to the fact that the expeditions, owing to the fall-off in the catch of fin-whales, have concentrated their activity on fields where occurrences of sei-whales were largest.

Table b.—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.	Sei.	Sperm.	Others.			Shore stations.	Floating factories.	Catchers.	
1946-47	9,192	14,547	29	393	1,431	¹⁾ 1	25,593	Barrels. 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	-	33,996	2,303,690	3	19	260	131
1951-52	5,130	22,527	1,556	530	5,485	-	35,228	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	-	34,869	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	-	38,538	2,307,171	3	19	278	139
1956-57	1,512	27,757	679	1,692	4,429	-	36,069	2,246,922	3	20	246	147
1957-58	1,690	27,473	396	3,309	6,535	-	39,403	2,317,638	2	20	257	153
1958-59	1,192	27,128	2,394	2,421	5,652	-	38,787	2,152,659	3	20	256	152
1959-60	1,239	27,575	1,338	4,309	4,227	-	38,688	2,148,438	3	20	241	161
1960-61	1,744	28,761	718	5,102	4,800	¹⁾ 2	41,127	2,232,884	3	21	268	153
1961-62	1,118	27,099	309	5,196	4,829	¹⁾ 1	38,552	2,051,776	1	21	269	143
1962-63	947	18,668	270	5,503	4,771	-	30,159	1,495,779	-	17	201	150
1963-64	112	14,422	2	8,695	6,711	-	29,942	1,340,758	2	16	194	154
1964-65	20	7,811	-	20,380	4,352	-	32,563	1,063,416	2	15	177	184

¹⁾ Right-whale.

Table c.—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.	Sei.	Sperm.	Others.			Shore stations.	Floating factories.	Catchers.	
1946-47	8,865	12,877	1	2	1,298	-	23,043	Barrels. 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	-	31,179	2,152,498	-	19	239	130
1951-52	5,124	20,520	1,546	32	5,344	-	32,566	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	-	31,215	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	-	35,489	2,134,808	-	19	257	138
1956-57	1,505	25,700	679	712	4,345	-	32,941	2,098,854	-	20	225	146
1957-58	1,684	25,222	396	2,385	6,310	-	35,997	2,146,206	-	20	237	152
1958-59	1,191	25,837	2,394	1,402	5,437	-	36,261	2,050,241	-	20	235	154
1959-60	1,230	26,415	1,338	3,234	4,138	-	36,355	2,050,892	-	20	220	165
1960-61	1,740	27,374	718	4,310	4,666	¹⁾ 2	38,810	2,123,157	-	21	252	154
1961-62	1,118	26,438	309	4,749	4,743	¹⁾ 1	37,358	2,001,961	-	21	261	143
1962-63	947	18,668	270	5,503	4,771	-	30,159	1,495,779	-	17	201	150
1963-64	112	13,870	2	8,286	6,651	-	28,921	1,299,476	-	16	190	152
1964-65	20	7,308	-	19,874	4,211	-	31,413	1,017,611	-	15	172	183

¹⁾ Right-whales.

Of sperm-whales a total of 4,211 animals was caught, as compared with 6,651 in the season 1963-64 and 4,771 in the season 1962-63. In addition the pelagic expeditions caught outside the Antarctic (north of 40° South Latitude) approximately 6,000 sperm-whales in 1964-65, as compared with approximately 3,600 and 1,000 in the two preceding seasons.

Table d, page 15, illustrates the relation between the various species of whales killed in pelagic whaling in the Antarctic from 1946-47. During the last season 1964-65 the fin-whale catch represented only 23 per cent of the total catch compared with 48 and 62 per cent during the two preceding seasons. On the other hand the sei-whale catch increased from about 29 per cent in 1963-64 to about 63 per cent in the last season. The catch of sperm-whales in the Antarctic (i.e. south of 40° South Latitude) amounted to about 13 per cent last season as against 23 per cent in 1963-64.

Table e, on next page, gives i.a. the average daily production of whale oil per floating factory as well as per catcher. The average daily production of whale oil per floating factory in 1964-65 amounted to 543 barrels as against 611 barrels in 1963-64. During the ten seasons 1949/50-1958/59 the corresponding figures varied between 1,266 and 1,690 barrels of whale oil.

The average daily production of whale oil per catcher in 1964-65 was only 48 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.

In tables f and g, pages 16 and 17, the monthly catch of the various species of whales is recorded in absolute and percentage figures for a series of years.

The movement of the whaling activities northwards continued in the last season. Between 40°-50° South Lat. the catch resulted in 2,695 blue-whale units, and this represents about 38 per cent of the total catch. It is only in recent seasons that whaling has been undertaken in these waters. This will appear from the following survey:

Catch between each 10 degrees latitude in the Antarctic:

	Catch in blue-whale units					
	Season 1938/39	Season 1948/49	Season 1958/59	Season 1962/63	Season 1963/64	Season 1964/65
40°—50° South Lat.	—	—	—	2,746	1,543	2,695
50°—60° » »	4,709	3,703	5,299	5,560	6,124	4,006
60°—70° » »	19,223	12,114	9,194	2,972	781	351
70°—80° » »	—	103	741	28	—	—
Total	23,932	15,920	15,234	11,306	8,448	7,052

(To be continued on page 20.)

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

Years.	Species of whales caught.					
	Blue.	Fir.	Hump-back.	Sei.	Sperm.	Total.
	Per cent.	Per cent.	Per cent.	Per cent.	Per cent.	Per cent.
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
1964-65.....	—	23.3	—	63.3	13.4	100

Table e.—Average production per floating factory and catcher in the pelagic whaling in Antarctic 1955/56—1964/65.

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.
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
1964-65.....	844,457	15	56,297	1,554	104	8,120	543

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.	
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	1.51
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	1.10
1964-65....	844,457	172	4,910	17,475	102	48	1.56

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

Table f.—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 animals.</i>	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	
1964-65..	365	4,192	10,035	10,096	5,856	822	31,366	31,413	
<i>Blue- whales.</i>	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	
1964-65..	—	—	—	11	8	1	20	20	
<i>Fin- whales.</i>	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	
1964-65..	—	2,452	2,353	1,328	1,083	90	7,306	7,308	
<i>Hump- backs.</i>	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>	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	
1964-65..	—	1,001	7,116	7,690	3,870	161	19,838	19,874	
<i>Sperm- whales.</i>	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	
1964-65..	365	739	566	1,067	895	2)570	4,202	4,211	

1) Of which 101 caught in October. 2) Of which 190 caught in May.

Table g.—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>	1955-56	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
	
	
<i>Blue-whales</i>	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
1964-65	-	-	-	-	0.1	0.1	-	-	
<i>Fin-whales</i>	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
1964-65	-	58.5	23.5	13.2	18.5	10.9	23.3	23.3	
<i>Hump-backs</i>	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>	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	
1964-65	-	23.9	70.9	76.2	66.1	19.6	63.3	63.3	
<i>Sperm-whales</i>	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
1964-65	100.0	17.6	5.6	10.6	15.3	69.4	13.4	13.4	

Table h.—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	1945/46-1950/51	8,592	21.7	78.0	13,695	34.5	78.6	8,624	21.8	78.6
4	1951-52	447	8.8	78.2	1,836	36.0	79.2	1,199	23.5	77.7
5	1952-53	727	18.9	78.9	1,454	37.8	77.7	837	21.8	77.0
6	1953-54	542	20.3	78.1	1,569	58.8	78.2	356	13.4	77.2
7	1954-55	470	21.8	79.0	685	31.8	78.1	310	14.4	77.6
8	1955-56	439	27.3	77.1	300	18.6	78.8	322	20.0	77.7
9	1956-57	330	21.9	76.9	275	18.3	78.4	80	5.3	78.5
10	1957-58	236	14.0	77.8	620	36.9	77.4	186	11.1	76.7
11	1958-59	57	4.8	80.5	373	31.4	79.0	335	28.2	78.0
12	1959-60	58	4.7	79.2	231	18.8	77.4	403	32.8	73.3
13	1960-61	128	7.4	79.7	1,152	66.2	72.6	151	8.7	71.8
14	1961-62	189	16.9	77.6	477	42.8	72.9	97	8.7	74.0
15	1962-63	14	1.5	83.8	741	78.5	71.2	40	4.2	74.7
16	1963-64	—	—	—	93	83.0	70.6	19	17.0	69.7
17	1964-65	—	—	—	11	55.0	69.2	9	45.0	70.3
	1931/32-1964/65	38,436	20.3	78.6	77,040	40.7	78.2	56,479	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	1945/46-1950/51	32,918	35.9	67.3	29,372	32.0	67.7	18,227	19.9	67.2
4	1951-52	5,977	29.4	67.9	7,122	35.1	68.1	2,141	10.5	67.3
5	1952-53	4,551	21.7	68.1	11,364	54.2	67.1	1,449	6.9	66.2
6	1953-54	7,653	31.0	67.4	11,459	46.4	67.0	2,195	8.9	67.0
7	1954-55	4,963	19.4	67.3	13,607	53.1	66.4	2,790	10.9	66.4
8	1955-56	6,619	26.4	66.2	7,088	28.2	66.8	3,208	12.8	66.5
9	1956-57	10,697	41.9	67.4	3,812	15.0	67.2	291	1.1	64.6
10	1957-58	5,211	20.8	67.3	9,197	36.7	66.7	3,579	14.3	65.6
11	1958-59	4,298	16.7	67.1	9,385	36.6	66.4	7,277	28.3	66.5
12	1959-60	4,920	18.7	66.9	9,307	35.4	66.7	6,501	24.8	66.3
13	1960-61	5,223	19.1	66.6	13,269	48.6	67.5	2,086	7.7	65.7
14	1961-62	6,650	25.2	67.5	11,847	44.9	66.7	3,129	11.9	64.8
15	1962-63	5,570	29.9	67.0	8,977	48.2	65.9	1,725	9.3	65.4
16	1963-64	7,319	52.8	67.4	4,753	34.3	66.0	603	4.4	64.5
17	1964-65	4,528	62.0	65.6	1,199	16.4	65.7	766	10.5	64.6
	1931/32-1964/65	159,123	31.3	67.3	190,986	37.6	67.1	76,454	15.0	66.9
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 (180° 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
6,878	17.3	79.1	1,822	4.6	79.2	45	0.1	77.7	39,656	100	78.6	39,786	3
1,462	28.6	76.9	157	3.1	77.5	—	—	—	5,101	100	78.0	5,124	4
512	13.3	76.4	317	8.2	76.9	—	—	—	3,847	100	77.5	3,866	5
83	3.1	78.2	117	4.4	76.7	—	—	—	2,667	100	78.0	2,684	6
561	26.0	76.4	128	6.0	77.0	—	—	—	2,154	100	77.8	2,163	7
15	0.9	79.1	281	17.4	76.2	254	15.8	76.3	1,611	100	77.3	1,611	8
—	—	—	617	41.0	76.3	203	13.5	76.9	1,505	100	77.0	1,505	9
76	4.5	76.9	439	26.1	76.9	125	7.4	76.1	1,682	100	77.1	1,684	10
176	14.9	78.5	246	20.7	76.9	—	—	—	1,187	100	78.3	1,191	11
391	31.8	76.6	127	10.4	76.9	18	1.5	78.7	1,228	100	75.9	1,230	12
90	5.2	78.6	213	12.2	78.0	5	0.3	77.0	1,739	100	74.0	1,740	13
74	6.6	77.4	58	5.2	76.4	221	19.8	78.2	1,116	100	75.3	1,118	14
115	12.2	82.1	25	2.6	77.9	9	1.0	75.6	944	100	73.1	947	15
—	—	—	—	—	—	—	—	—	112	100	70.4	112	16
—	—	—	—	—	—	—	—	—	20	100	69.7	20	17
11,759	6.2	78.6	4,548	2.4	77.8	890	0.5	76.9	189,152	100	78.6	199,133	
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
8,420	9.2	67.7	2,289	2.5	68.6	462	0.5	68.5	91,688	100	67.5	92,341	3
2,768	13.6	67.9	2,304	11.4	67.6	—	—	—	20,312	100	67.9	20,520	4
1,709	8.2	66.8	1,891	9.0	67.7	—	—	—	20,964	100	67.3	21,197	5
654	2.7	66.9	2,616	10.6	66.8	98	0.4	66.6	24,675	100	67.1	24,986	6
3,021	11.8	66.0	1,227	4.8	66.4	—	—	—	25,608	100	66.5	25,878	7
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	8
23	0.1	65.0	5,064	19.9	65.9	5,615	22.0	66.8	25,502	100	66.9	25,700	9
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	10
2,625	10.2	65.6	2,102	8.2	64.6	—	—	—	25,687	100	66.3	25,837	11
4,730	18.0	66.8	401	1.5	65.1	412	1.6	64.5	26,271	100	66.6	26,415	12
3,174	11.6	66.9	3,174	11.6	64.9	373	1.4	65.2	27,299	100	66.8	27,374	13
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	14
645	3.5	66.7	346	1.8	64.8	1,373	7.3	65.7	18,636	100	66.2	18,668	15
1,144	8.3	67.5	—	—	—	34	0.2	65.9	13,853	100	66.8	13,870	16
747	10.2	65.5	—	—	—	66	0.9	62.8	7,306	100	65.5	7,308	17
35,375	7.0	66.9	29,226	5.8	66.1	16,981	3.3	66.5	508,145	100	67.0	524,215	
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.

The distribution of the various species of whales caught in the season 1964-65 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.	14	2,202	9,285	2,620	14,121
50°—60° » »	6	4,695	9,696	1,203	15,600
60°—70° » »	—	409	857	379	1,645
Total	20	7,306	19,838	4,202	31,366

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 II	between	60° West	and	0°
» III	»	0°	»	70° East
» IV	»	70° East	»	130° »
» V	»	130°	»	170° West
» VI	»	170° West	»	120° »
» I	»	120°	»	60° »

From the survey below will be seen the whaling results in the individual areas during the last three seasons.

Areas	Catch in blue-whale units 1962/63		Catch in blue-whale units 1963/64		Catch in blue-whale units 1964/65	
	Number	Per cent	Number	Per cent	Number	Per cent
Total	11,306	100.0	8,447	100.0	7,052	100.0
Of which in:						
Area II.....	3,109	27.5	4,368	51.7	4,918	69.8
» III.....	5,491	48.6	2,808	33.2	687	9.7
» IV.....	1,010	8.9	367	4.4	658	9.3
» V.....	586	5.2	882	10.4	749	10.6
» VI.....	257	2.3	—	—	—	—
» I.....	853	7.5	22	0.3	40	0.6

In the last season 1964-65 the largest catch was obtained in Area II (between 0° and 60° West) with 4,918 blue-whale units, or about 70 per cent of the total pelagic catch, whilst 30 per cent was fairly equally divided between Areas III, IV and V.

Table h, page 18, 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 seasons 1963-64 and 1964-65 were as follows:

Areas	Sei-whales caught				Sperm-whales caught			
	Season 1963/64		Season 1964/65		Season 1963/64		Season 1964/65	
	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent
Total	8,256	100.0	19,838	100.0	6,639	100.0	4,202	100.0
Of which in:								
Area II	4,150	50.3	15,584	78.6	1,026	15.5	1,186	28.2
„ III	1,984	24.0	443	2.2	1,773	26.7	506	12.0
„ IV	274	3.3	1,564	7.9	1,400	21.1	827	19.7
„ V	1,820	22.1	2,207	11.1	2,434	36.7	1,503	35.8
„ VI	—	—	—	—	—	—	22	0.5
„ I	28	0.3	40	0.2	6	—	158	3.8

Table i, below, contains a summary of the number of whales killed by species in each area during the period 1931/32—1964/65. Of a total catch of 867,400 whales during this period about 59 per cent have been fin-whales, 22 per cent blue-whales, 10 per cent sperm-whales, 6 per cent sei-whales and 3 per cent humpbacks. About 64 per cent of the total catch have been taken in Areas II and III, i.e. from 60° West eastwards to 70° East Longitude.

Table i.—Number of whales killed during the seasons 1931/32—1964/65.

— 1 —

Areas	Blue-whales		Fin-whales		Humpbacks		Sei-whales		Sperm-whales		Total	
	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent
I . . .	38,436	20.3	159,123	31.3	1,536	5.4	26,159	50.5	20,019	22.3	245,273	28.3
II . . .	77,040	40.7	190,986	37.6	7,881	27.5	5,037	9.7	30,839	34.4	311,783	36.0
III . . .	56,479	29.9	76,454	15.0	12,457	43.5	4,281	8.3	19,446	21.7	169,117	19.5
IV . . .	11,759	6.2	35,375	7.0	4,060	14.2	8,058	15.6	14,754	16.4	74,006	8.5
V . . .	4,548	2.4	29,226	5.8	1,238	4.3	4,618	8.9	2,306	2.6	41,936	4.8
VI . . .	890	0.5	16,981	3.3	1,456	5.1	3,597	7.0	2,361	2.6	25,285	2.9
Total	189,152	100.0	508,145	100.0	28,628	100.0	51,750	100.0	89,725	100.0	867,400	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	15.7	77,040	24.7	56,479	33.4	11,759	15.9	4,548	10.8	890	3.5	189,152	21.8
Fin	159,123	64.9	190,986	61.3	76,454	45.2	35,375	47.8	29,226	69.7	16,981	67.2	508,145	58.6
Humpback	1,536	0.6	7,881	2.5	12,457	7.4	4,060	5.5	1,238	3.0	1,456	5.8	28,628	3.3
Sei	26,159	10.6	5,037	1.6	4,281	2.5	8,058	10.9	4,618	11.0	3,597	14.2	51,750	6.0
Sperm	20,019	8.2	30,839	9.9	19,446	11.5	14,754	19.9	2,306	5.5	2,361	9.3	89,725	10.3
Total	245,273	100.0	311,783	100.0	169,117	100.0	74,006	100.0	41,936	100.0	25,285	100.0	867,400	100.0

Average size of the whales killed.

Table j, below, gives the average size of whales killed in the pelagic whaling operations and from South Georgia in the seasons 1955/56—1964/65.

The average size of the 20 blue-whales killed last season was 69.7 feet. The average size of fin-whales killed in 1964–65 was 65.5 feet, which is the lowest average size recorded for fin-whales in the pelagic whaling in the Antarctic. In the previous 10 seasons the average size varied between 66.2 and 66.9 feet. The average size of sei-whales declined by 0.3 feet to 49.3 feet as compared with the previous season, while the average size of sperm-whales in the pelagic whaling increased by 0.3 feet to 45.6 feet.

Table j.—Average size of whales killed in the Antarctic, by whaling grounds and species of whales 1955/56—1964/65.

Whaling grounds and species of whales.	1955 -56	1956 -57	1957 -58	1958 -59	1959 -60	1960 -61	1961 -62	1962 -63	1963 -64	1964 -65
Pelagic whaling.	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	75.6	75.8	75.4	76.0	74.5	72.8	73.8	72.9	69.7	66.2
Females	78.9	78.4	79.0	80.2	77.0	75.2	76.7	73.3	71.2	71.2
Total animals	77.3	77.0	77.1	78.3	75.9	74.0	75.3	73.1	70.4	69.7
<i>Fin-whales.</i>										
Males	65.1	65.3	64.7	64.8	65.0	65.1	64.4	64.1	64.7	63.6
Females	68.1	68.6	67.7	67.8	68.1	68.4	68.2	67.8	68.6	67.1
Total animals	66.5	66.9	66.2	66.3	66.6	66.8	66.5	66.2	66.8	65.5
<i>Humpbacks.</i>										
Males	39.0	40.7	40.8	39.2	39.8	40.6	40.4	39.9	—	—
Females	40.7	42.1	42.1	40.7	41.8	42.2	41.9	42.7	40.0	—
Total animals	40.0	41.4	41.5	40.0	40.9	41.4	41.4	41.6	40.0	—
<i>Sei-whales.</i>										
Males	48.5	48.7	48.3	48.8	48.7	48.6	48.7	48.4	48.5	48.3
Females	51.3	51.3	51.3	51.4	51.3	51.4	51.3	50.9	50.8	50.5
Total animals	50.4	50.4	50.3	50.8	50.5	50.2	50.3	49.8	49.6	49.3
<i>Sperm-whales.</i>										
Males	48.4	48.7	47.5	47.2	47.3	46.8	46.3	46.5	45.7	45.8
Females	—	—	36.5	—	39.0	—	41.0	38.6	38.6	38.2
Total animals	48.4	48.7	47.5	47.2	47.3	46.8	46.3	46.4	45.3	45.6
South Georgia.										
<i>Blue-whales, total</i>	81.3	71.7	74.5	64.0	73.0	72.8	—	—	—	—
<i>Fin-whales, total</i>	65.0	63.8	66.1	65.9	66.4	64.0	62.9	—	66.9	66.9
<i>Humpbacks, total</i>	—	—	—	—	—	—	—	—	—	—
<i>Sei-whales, total</i>	50.0	49.5	50.1	49.8	49.5	49.3	48.6	—	49.8	49.8
<i>Sperm-whales, total</i>	46.8	45.7	47.1	46.5	47.6	46.9	46.7	—	48.7	48.4

Mature and immature whales.

Table k, page 24, 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 0.40 in 1964-65.

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
1964-65	0.47	0.38	0.29	0.25	—	0.54	0.40

Table l, page 25, gives a survey of the pelagic whaling results of the individual participating countries as from 1955-56 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 1946-47 are given in table m, page 26. 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 each of the two last seasons, 1963-64 and 1964-65, 2 shore stations were in activity, but one of them, however, was operating only for a short period in each season. The catch result in 1964-65 was 503

Table k.—Antarctic, pelagic whaling. Catch of immature and mature whales 1955/56—1964/65.

	1955—56.		1956—57.		1957—58.		1958—59.		1959—60.		1960—61.		1961—62.		1962—63.		1963—64.		1964—65.	
	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	289	37.4	268	33.7	316	36.9	175	33.0	267	46.5	618	71.3	310	61.0	356	76.6				
females . . .	352	42.0	312	44.0	332	40.2	219	33.3	351	56.7	629	72.1	347	57.1	403	84.1	1)	1)	1)	1)
animals . . .	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	484	62.6	528	66.3	541	63.1	355	67.0	307	53.5	249	28.7	198	39.0	109	23.4				
females . . .	486	58.0	397	56.0	494	59.8	438	66.7	303	43.3	243	27.9	261	42.9	76	15.9	1)	1)	1)	1)
animals . . .	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	3,169	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	1,433	42.8
females . . .	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	1,478	37.3
animals . . .	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	2,911	39.8
Mature																				
males	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	1,915	57.2
females . . .	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	2,480	62.7
animals . . .	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	4,395	60.2
Humpbacks.																				
Immature																				
males	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 . . .	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 . . .	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	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 . . .	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 . . .	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 I.—Antarctic, pelagic whaling results for the various countries 1955/56—1964/65.

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
1955-56.....	35,489	Barrels ¹ 2,134,808	257	13,371	Barrels 788,554	110	6,345	Barrels 409,701	44	2,184	Barrels 109,539	15
1956-57.....	32,941	2,098,854	225	14,008	955,599	94	5,281	333,967	35	1,596	86,586	10
1957-58.....	35,997	2,146,206	237	13,289	853,810	94	5,534	323,472	37	—	—	—
1958-59.....	36,261	2,050,241	235	13,292	796,986	93	4,600	259,723	37	—	—	—
1959-60.....	36,355	2,050,892	220	10,656	655,033	70	4,431	257,368	31	—	—	—
1960-61.....	38,810	2,123,157	252	12,490	743,298	81	3,496	196,472	22	—	—	—
1961-62.....	37,358	2,001,961	261	9,304	568,768	71	3,130	162,552	22	—	—	—
1962-63.....	30,159	1,495,779	201	4,582	224,199	32	1,552	79,222	9	—	—	—
1963-64.....	28,921	1,299,476	190	5,631	247,432	33	—	—	—	—	—	—
1964-65.....	31,413	1,017,611	172	7,470	226,357	36	—	—	—	—	—	—

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
1955-56.....	6,462	Barrels 408,853	40	2,730	Barrels 160,960	15	1,665	Barrels 103,465	18	2,732	Barrels 153,736	15
1956-57.....	8,093	492,507	54	—	—	—	1,409	92,489	14	2,554	137,706	18
1957-58.....	11,763	627,849	68	—	—	—	1,867	116,497	14	3,544	224,578	24
1958-59.....	12,558	646,130	69	—	—	—	2,226	126,488	12	3,585	220,914	24
1959-60.....	12,359	617,141	69	—	—	—	2,081	143,050	13	6,828	378,300	37
1960-61.....	13,592	667,350	83	—	—	—	2,212	139,774	14	7,020	376,263	52
1961-62.....	14,351	735,895	86	—	—	—	1,628	90,305	15	8,945	444,441	67
1962-63.....	13,617	716,838	79	—	—	—	1,301	79,515	11	9,107	396,005	70
1963-64.....	12,398	625,394	78	—	—	—	1,182	63,382	11	9,710	363,268	68
1964-65.....	15,465	504,023	71	—	—	—	—	—	—	8,478	287,231	65

¹) Barrel = 170 kg. (Barrel = abt. 1/6 long ton. 1 long ton = 1,016 kg.)

Table m.—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.	Floating factories.	Catchers.	
1946-47	327	1,670	28	391	133	¹⁾ 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	—
1964-65	—	503	—	506	141	—	1,150	45,805	2	—	³⁾ 21	—

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⁾ Some of these catchers were transferred to the pelagic expeditions after about 2 months' catch.

fin-whales, 506 sei-whales and 141 sperm-whales, from which were produced 39,029 barrels of whale oil and 6,776 barrels of sperm-oil.

Tables n and o, pages 27 and 28, give the catch off South Georgia by months in absolute and percentage figures from and including 1955-56. Table p, page 29, shows the proportion of mature and immature whales killed.

Oil production by participating countries.

In table q, page 30, the total whaling results in the Antarctic during the seasons 1955/56-1964/65 have been distributed in respect to the individual participating countries. During the last 5 seasons the percentage proportion of the oil production of the individual countries has been as follows:

Countries	Oil production during the last 5 seasons				
	1960/61 Per cent	1961/62 Per cent	1962/63 Per cent	1963/64 Per cent	1964/65 Per cent
Norway	33.3	27.7	15.0	18.5	21.3
Japan	29.9	35.9	47.9	49.7	51.7
U.S.S.R.	16.8	21.6	26.5	27.1	27.0
Netherlands	6.3	4.4	5.3	4.7	—
United Kingdom	13.7	10.4	5.3	—	—
Total	100.0	100.0	100.0	100.0	100.0

Oil production per blue-whale unit, see page 32.

Table n.—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>	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
1964-65.....	251	231	124	209	176	127	-	1,118	1,150	
<i>Blue-whales.</i>	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— 1964-65	-	-	-	-	-	-	-	-	-
<i>Fin-whales.</i>	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	
1964-65.....	232	180	63	10	3	2	-	490	503	
<i>Sei-whales.</i>	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	
1964-65.....	3	14	34	188	132	121	-	492	506	
<i>Sperm-whales.</i>	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	
1964-65.....	16	37	27	11	41	4	-	136	141	

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

Species of whales. Seasons.	Oct.	Nov.	Dec.	Jan.	Feb.	March.	April.	Total.	The Whaling Statistics' total figures.	
<i>Total animals</i> }	1955-56	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
	
	
<i>Blue-whales</i> }	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
	1961-62-1964-65	—	—	—	—	—	—	—	—	—
<i>Fin-whales</i> }	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
1964-65	92.4	77.9	50.8	4.7	1.7	1.5	—	43.8	43.7	
<i>Sei-whales</i> }	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
1964-65	—	6.1	27.4	90.0	75.0	95.3	—	44.0	44.0	
<i>Sperm-whales</i> }	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
1964-65	7.6	16.0	21.8	5.3	23.3	3.2	—	12.2	12.3	

Table p.—South Georgia. Catch of immature and mature whales 1955/56—1964/65.

	1955—56.		1956—57.		1957—58.		1958—59.		1959—60.		1960—61.		1961—62.		1962—63.		1963—64.		1964—65.	
	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	1	100.0	5	100.0	4	100.0	1	100.0	3	100.0	1	100.0	—	—	—	—	—	—	—	—
females	—	—	1	50.0	1	50.0	—	—	4	66.7	2	66.7	—	—	—	—	—	—	—	—
animals	1	33.3	6	85.7	5	83.3	1	100.0	7	77.8	3	75.0	—	—	—	—	—	—	—	—
Mature																				
males	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
females	2	100.0	1	50.0	1	50.0	—	—	2	33.3	1	33.3	—	—	—	—	—	—	—	—
animals	2	66.7	1	14.3	1	16.7	—	—	2	22.2	1	25.0	—	—	—	—	—	—	—	—
Fin-whales.																				
Immature																				
males	515	41.9	489	51.7	366	38.4	228	39.9	159	35.7	322	48.5	179	59.5	—	—	72	33.3	75	40.8
females	583	41.9	537	50.3	402	31.9	222	31.5	226	32.4	347	50.0	207	58.3	—	—	91	28.0	83	27.1
animals	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	158	32.2
Mature																				
males	715	58.1	457	48.3	588	61.6	344	60.1	286	64.3	342	51.5	122	40.5	—	—	144	66.7	109	59.2
females	808	58.1	530	49.7	859	68.1	482	68.5	472	67.6	347	50.0	148	41.7	—	—	234	72.0	223	72.9
animals	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	332	67.8

Table q.—Antarctic whaling results for the various countries 1955/56—64/65.

Years	All countries.		Norway		United Kingdom		South Africa.	
	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.
1955-56 ²⁾ . . .	²⁾ 38 538	²⁾ 2,307,171	14,510	852,482	7,443	474,760	2,184	109,539
1956-57	36,069	2,246,922	15,043	1,004,373	6,266	381,931	1,596	86,586
1957-58	39,403	2,317,638	13,289	853,810	7,080	400,705	—	—
1958-59	38,787	2,152,659	14,071	826,037	5,424	293,660	—	—
1959-60	38,688	2,148,438	11,324	681,330	5,164	288,117	—	—
1960-61	41 127	2,232,884	12,490	743,298	³⁾ 5,813	³⁾ 306,199	—	—
1961-62	38,552	2,051,776	9,304	568,768	³⁾ 4,324	³⁾ 212,367	—	—
1962-63	30,159	1,495,779	4,582	224,199	1,552	79,222	—	—
1963-64	29,942	1,340,758	5,631	247,432	—	—	—	—
1964-65	32,563	1,063,416	7,470	226,357	—	—	—	—
<i>In per cent</i>	%	%	%	%	%	%	%	%
1955-56 ²⁾ . . .	²⁾ 100.0	²⁾ 100.0	37.7	36.9	19.3	20.6	5.7	4.7
1956-57	100.0	100.0	41.7	44.7	17.4	17.0	4.4	3.9
1957-58	100.0	100.0	33.7	36.8	18.0	17.3	—	—
1958-59	100.0	100.0	36.3	38.4	14.0	13.6	—	—
1959-60	100.0	10.00	29.3	31.7	13.4	13.4	—	—
1960-61	100.0	100.0	30.4	33.3	³⁾ 14.1	³⁾ 13.7	—	—
1961-62	100.0	100.0	24.2	27.7	³⁾ 11.2	³⁾ 10.4	—	—
1962-63	100.0	100.0	15.3	15.0	5.2	5.3	—	—
1963-64	100.0	100.0	18.7	18.5	—	—	—	—
1964-65	100.0	100.0	23.0	21.3	—	—	—	—

Years	Japan.		Argentina.		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.
1955-56	6,462	408,853	812	43,376	1,665	103,465	2,732	153,736
1956-57	8,093	492,507	1,108	51,330	1,409	92,489	2,554	137,706
1957-58	11,763	627,849	1,860	94,199	1,867	116,497	3,544	224,578
1958-59	12,558	646,130	923	39,430	2,226	126,488	3,585	220,914
1959-60	12,359	617,141	932	40,500	2,081	143,050	6,828	378,300
1960-61	13,592	667,350	—	—	2,212	139,774	7,020	376,263
1961-62	14,351	735,895	—	—	1,628	90,305	8,945	444,441
1962-63	13,617	716,838	—	—	1,301	79,515	9,107	396,005
1963-64	13,419	666,676	—	—	1,182	63,382	9,710	363,268
1964-65	16,615	549,828	—	—	—	—	8,478	287,231
<i>In per cent</i>	%	%	%	%	%	%	%	%
1955-56	16.7	17.7	2.1	1.9	4.3	4.5	7.1	6.7
1956-57	22.4	21.9	3.1	2.3	3.9	4.1	7.1	6.1
1957-58	29.9	27.1	4.7	4.1	4.7	5.0	9.0	9.7
1958-59	32.4	30.0	2.4	1.8	5.7	5.9	9.2	10.3
1959-60	31.9	28.7	2.4	1.9	5.4	6.7	17.7	17.6
1960-61	33.0	29.9	—	—	5.4	6.3	17.1	16.8
1961-62	37.2	35.9	—	—	4.2	4.4	23.2	21.6
1962-63	44.8	47.9	—	—	4.3	5.3	30.3	26.5
1963-64	45.0	49.7	—	—	4.0	4.7	32.4	27.1
1964-65	51.0	51.7	—	—	—	—	26.0	27.0

¹⁾ Barrel = 170 kg. (Barrel = abt. $\frac{1}{4}$ long ton. 1 long ton = 1,016 kg.) ²⁾ In 1955-56 Panama included with catch and production of 2,730 whales and 160,960 barrels of oil or 7.1 and 7.0 per cent, respectively. ³⁾ 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 r.—Production of by-products in the Antarctic whaling in the seasons 1946/47—1964/65.

Seasons Countries	By-products	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
1959-60	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
<i>1964-65.</i>								
Norway		5,374	148	-	-	7,142	-	2,452
Japan		10,090	522	12	-	147,721	-	24,211
U.S.S.R.		18,214	2,542	⁴⁾	-	16,799	-	2
	Total	33,678	3,212	12	-	171,662	-	26,665

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. ⁴⁾ In addition 922 Mill. units of Vitamin A (Liver oil) were produced.

Oil production per blue-whale unit.

The average output of oil per blue-whale unit from and including the season 1955-56 has been recorded in table s, below. For the pelagic expeditions the average output was 121 barrels in 1964-65 against 122 and 114.6 barrels during the two preceding seasons.

Table s.—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
1955-56.....	123.6	121.6	1961-62.....	112.9	118.1
1956-57.....	122.9	128.7	1962-63.....	—	114.6
1957-58.....	126.9	124.9	1963-64.....	112.1	122.0
1958-59.....	114.0	118.2	1964-65.....	117.9	121.0
1959-60.....	123.0	120.5			
1960-61.....	127.2	116.9			

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. ¼ long ton. 1 long ton = 1,016 kg.)

In the survey below is given the average output of oil per blue-whale unit in the individual areas from 1959-60:

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	
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
1964-65 ..	123.7	110.5	103.9	114.7	—	134.3	121.0

The highest yield in the season 1964-65 was in Area I with 134.3 barrels. Next came Area II with 123.7 barrels.

Table t, page 33, is recording the average weekly production of whale-oil per blue-whale unit for the pelagic expeditions during the last two seasons.

By-products.

In table r, page 31, detailed information is given on the production of by-products in the Antarctic during the post-war seasons. From and including the season 1960-61 the figures are distributed in respect to the individual countries.

In the last season the production of whale meat (incl. blubber for food) amounted to 171,662 tons as compared with 173,736 tons in 1963-64. Of whale meal there was produced 33,678 tons in 1964-65 against 31,655 tons in the preceding season.

Table t.—Average weekly production of whale-oil per blue-whale unit in the pelagic whaling 1963-64 and 1964-65.

Season 1963-64.				Season 1964-65.			
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.
21/12 1963	90,951	845.5	107.6	19/12 1964	54,341	556.6	97.6
28/12 "	58,596	479.2	122.3	26/12 "	48,754	495.8	98.3
4/1 1964	39,212	399.0	98.3	2/1 1965	50,885	446.4	114.0
11/1 "	76,148	615.1	123.8	9/1 "	59,796	561.2	106.6
18/1 "	92,412	807.0	114.5	16/1 "	65,273	549.1	118.9
25/1 "	73,725	526.3	140.1	23/1 "	58,026	482.8	120.2
1/2 "	65,622	546.4	120.1	30/1 "	70,612	588.2	120.0
8/2 "	80,569	677.5	118.9	6/2 "	68,827	536.6	128.3
15/2 "	78,330	651.2	120.3	13/2 "	72,352	560.0	129.2
22/2 "	58,981	469.2	125.7	20/2 "	48,094	390.2	123.3
29/2 "	82,361	688.3	119.7	27/2 "	69,350	539.4	128.6
7/3 "	75,490	570.4	132.3	6/3 "	53,804	396.4	135.7
14/3 "	60,788	465.5	130.6	13/3 "	47,571	364.2	130.6
21/3 "	44,311	340.2	130.2	20/3 "	41,910	309.3	135.5
28/3 "	27,163	201.4	134.9	27/3 "	19,522	155.5	125.5
7/4 "	19,815	165.3	119.9	4/4 "	14,701	120.4	122.1
Total	1,024,474	8,447.5	121.3	Total	843,818	7,052.1	119.7

TABLES
Antarctic season 1964/65.

Table No. 1.—Whaling in the Antarctic in the season 1964/65.

Geographical areas.	Species of whales caught.					Oil production.	Expeditions.		
	Blue.	Fin.	Sei.	Sperm.	Total of whales.		Shore stations.	Floating factories.	Catchers.
South Georgia	—	503	506	141	1,150	Barrels ¹⁾ 45,805	2	—	³⁾ 21
Antarctic, pelagic whaling	20	7,308	19,874	4,211	²⁾ 31,413	1,017,611	—	15	172
Total	20	7,811	20,380	4,352	²⁾ 32,563	1,063,416	2	15	177

¹⁾ Barrel = 170 kg. (Barrel = abt. $\frac{1}{8}$ long ton, 1 long ton = 1,016 kg.) ²⁾ In addition 6 Minke-whales, 2 bottlenoses and 1 Killer-whale were taken. ³⁾ 16 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 1964/65.

Countries. Geographical areas.	Species of whales caught.					Oil production.	Expeditions.		
	Blue.	Fin.	Sei.	Sperm.	Total of whales.		Shore stations.	Floating factories.	Catchers.
Japan:—						Barrels ¹⁾			
South Georgia	—	503	506	141	1,150	45,805	2	—	³⁾ 21
Antarctic, pelagic.....	—	4,781	10,405	279	15,465	504,023	—	7	71
U.S.S.R.:—									
Antarctic, pelagic.....	20	1,826	3,931	2,701	8,478	287,231	—	4	65
Norway:—									
Antarctic, pelagic.....	—	701	5,538	1,231	7,470	226,357	—	4	36
Total	20	7,811	20,380	4,352	²⁾ 32,563	1,063,416	2	15	177

¹⁾ Barrel = 170 kg. (Barrel = abt. $\frac{1}{8}$ long ton, 1 long ton = 1,016 kg.) ²⁾ In addition 6 Minke-whales, 2 bottlenoses and 1 Killer-whale were taken. ³⁾ 16 of these catchers were also operating for the pelagic expeditions.

Table No. 3.—Average size of whales caught in the Antarctic in the season 1964/65.

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	—	89.00	89.00
Males 6 } Total 20.	" 2	66.17	69.85	68.68
Females 14 }				
Average		66.17	71.21	69.70
<u>Fin-whales.</u>				
<i>South Georgia</i>	No. 1	63.71	69.44	67.18
Males 184 } Total 490.	" 2	63.57	68.48	66.71
Females 306 }				
Average		63.64	68.90	66.92
<i>Antarctic, pelagic whaling</i>	No. 1	64.59	68.74	67.00
Males 3 348 } Total 7,306.	" 2	64.80	68.28	66.66
Females 3,958 }	" 3	65.04	68.11	66.62
	" 4	64.70	67.87	66.46
	" 5	63.82	68.09	66.30
	" 6	64.79	66.77	65.88
	" 7	62.74	67.47	65.64
	" 8	63.74	66.48	65.12
	" 9	63.85	66.22	65.05
	" 10	62.72	67.25	65.03
	" 11	63.87	65.67	64.74
	" 12	62.88	65.82	64.32
	" 13	61.97	65.93	64.01
	" 14	62.15	65.68	63.73
	" 15	61.55	64.49	63.14
Average		63.56	67.10	65.48
<u>Sei-whales.</u>				
<i>South Georgia</i>	No. 1	—	52.60	52.60
Males 250 } Total 492.	" 2	48.41	51.25	49.79
Females 242 }				
Average		48.41	51.28	49.82

Table No. 3 (continued).

Geographical areas. Number of whales measured.	Company.	Average size.		
		Males.	Females.	Total animals.
		Engl. feet.	Engl. feet.	Engl. feet.
<i>Antarctic, pelagic whaling</i>	No. 1	49.15	50.89	50.02
Males 11,128 } Total 19,838.	" 2	48.88	52.19	49.86
Females 8,710 }	" 3	48.55	51.03	49.80
	" 4	48.34	50.69	49.37
	" 5	48.63	50.38	49.37
	" 6	48.39	50.62	49.35
	" 7	48.15	50.63	49.25
	" 8	48.33	50.55	49.22
	" 9	48.37	50.20	49.18
	" 10	48.30	50.25	49.17
	" 11	48.16	50.43	49.10
	" 12	47.77	50.62	48.97
	" 13	47.68	49.83	48.86
	" 14	48.00	49.97	48.80
	" 15	48.14	49.66	48.74
Average		48.33	50.49	49.28
<u>Sperm-whales.</u>				
<i>South Georgia</i>	No. 1	48.77	—	48.77
Males 136.	" 2	47.19	—	47.19
Average		48.35	—	48.35
<i>Antarctic, pelagic whaling</i>	No. 1	48.44	—	48.44
Males 4,127 } Total 4,202.	" 2	48.28	—	48.28
Females 75 }	" 3	47.00	—	47.00
	" 4	46.72	—	46.72
	" 5	46.13	—	46.13
	" 6	46.03	—	46.03
	" 7	45.98	—	45.98
	" 8	45.04	—	45.04
	" 9	44.29	—	44.29
	" 10	43.44	—	43.44
	" 11	43.32	38.00	43.30
	" 12	43.16	—	43.16
	" 13	42.76	38.16	40.82
Average		45.75	38.16	45.62

Table No. 4.—Whales caught in the Antarctic in the season 1964/65, 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.	
60	1	—	1	73	—	3	3
61	1	1	2	89	—	1	1
64	1	—	1	Sum	6	14	20
65	—	1	1	Average size { Males: 66.17 feet			
66	—	1	1	{ Females: 71.21 „			
68	—	1	1	{ Total animals: 69.70 „			
70	2	—	2	Per cent { Males: 30.00			
71	—	3	3	{ Females: 70.00			
72	1	3	4				

Fin-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
40	1	—	1	69	222	183	405
46	1	1	2	70	158	220	378
47	1	1	2	71	105	211	316
48	1	1	2	72	62	301	363
49	1	1	2	73	32	386	418
50	3	1	4	74	8	253	261
51	2	1	3	75	1	228	229
52	4	2	6	76	3	147	150
53	5	2	7	77	—	98	98
54	9	7	16	78	—	46	46
55	13	13	26	79	—	24	24
56	13	17	30	80	—	7	7
57	408	360	768	81	—	10	10
58	222	196	418	82	—	1	1
59	248	179	427	85	—	1	1
60	189	165	354	Sum	3,532	4,264	7,796
61	202	159	361	Average size { Males: 63.57 feet			
62	185	156	341	{ Females: 67.23 „			
63	194	156	350	{ Total animals: 65.57 „			
64	195	143	338	Per cent { Males: 45.31			
65	204	145	349	{ Females: 54.69			
66	289	157	446				
67	296	159	455				
68	255	126	381				

Table No. 4 (continued).

Sei-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
33	—	1	1	52	608	1,549	2,157
34	1	1	2	53	156	1,074	1,230
35	2	1	3	54	50	748	798
37	1	1	2	55	17	413	430
38	—	2	2	56	2	157	159
39	2	3	5	57	—	52	52
40	70	68	138	58	1	11	12
41	148	78	226	59	—	3	3
42	123	107	230	60	—	1	1
43	226	142	368	Sum	11,378	8,952	20,330
44	310	174	484	Average size { Males: 48.33 feet			
45	486	225	711	{ Females: 50.51 „			
46	788	277	1,065	{ Total animals: 49.29 „			
47	1,361	368	1,729	Per cent { Males: 55.97			
48	1,926	493	2,419	{ Females: 44.03			
49	2,044	724	2,768				
50	1,968	1,057	3,025				
51	1,088	1,222	2,310				

Sperm-whales.

35	1	—	1	50	290	—	290
36	1	—	1	51	181	—	181
37	1	—	1	52	122	—	122
38	121	63	184	53	56	—	56
39	131	12	143	54	31	—	31
40	156	—	156	55	18	—	18
41	178	—	178	56	5	—	5
42	205	—	205	Sum	4,263	75	4,338
43	327	—	327	Average size { Males: 39.79 feet			
44	369	—	369	{ Females: 38.16 „			
45	411	—	411	{ Total animals: 45.70 „			
46	442	—	442	Per cent { Males: 98.27			
47	427	—	427	{ Females: 1.73			
48	460	—	460				
49	330	—	330				

a. South Georgia.

Fin-whales.

53	1	2	3	72	2	20	22
54	3	5	8	73	1	23	24
55	8	6	14	74	3	31	34
56	4	4	8	75	—	21	21
57	10	5	15	76	1	19	20
58	12	7	19	77	—	12	12
59	7	7	14	78	—	6	6
60	12	13	25	79	—	3	3
61	11	5	16	80	—	1	1
62	7	10	17	81	—	1	1
63	10	8	18	85	—	1	1
64	9	11	20	Sum	184	306	1) 490
65	13	13	26	Average size { Males: 63.64 feet			
66	16	9	25	{ Females: 68.90 „			
67	18	4	22	{ Total animals: 66.92 „			
68	11	7	18	Per cent { Males: 37.55			
69	8	14	22	{ Females: 62.45			
70	9	18	27				
71	8	20	28				

1) In addition fragment of 8 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.	
39	1	—	1	53	7	34	41
40	1	1	2	54	3	23	26
41	2	—	2	55	—	16	16
42	4	—	4	56	—	7	7
43	9	—	9	57	—	4	4
44	6	4	10	58	—	2	2
45	10	4	14	Sum	250	242	492
46	15	6	21	Average size			{ Males: 48.41 feet
47	26	11	37				{ Females: 51.28 "
48	38	15	53				{ Total animals: 49.82 "
49	46	21	67	Per cent			{ Males: 50.81
50	41	22	63				{ Females: 49.19
51	33	32	65				
52	8	40	48				

Sperm-whales.

Engl. feet.	Males.	Engl. feet.	Males.
40	1	49	18
41	2	50	16
42	2	51	10
43	5	52	12
44	5	53	10
45	12	54	4
46	12	Sum	136
47	15		
48	12		

Average size: Males: 48.35 feet.

b. Antarctic, pelagic.

Blue-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
60	1	—	1	73	—	3	3
61	1	1	2	89	—	1	1
64	1	—	1	Sum	6	14	20
65	—	1	1	Average size			{ Males: 66.17 feet
66	—	1	1				{ Females: 71.21 "
67	—	—	—				{ Total animals: 69.70 "
68	—	1	1	Per cent			{ Males: 30.00
70	2	—	2				{ Females: 70.00
71	—	3	3				
72	1	3	4				

Table No. 4 (continued).

Fin-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
40	1	—	1	69	214	169	383
46	1	1	2	70	149	202	351
47	1	1	2	71	97	191	288
48	1	1	2	72	60	281	341
49	1	1	2	73	31	363	394
50	3	1	4	74	5	222	227
51	2	1	3	75	1	207	208
52	4	2	6	76	2	128	130
53	4	—	4	77	—	86	86
54	6	2	8	78	—	40	40
55	5	7	12	79	—	21	21
56	9	13	22	80	—	6	6
57	398	355	753	81	—	9	9
58	210	189	399	82	—	1	1
59	241	172	413	Sum	3,348	3,958	7,306
60	177	152	329	Average size { Males: 63.56 feet Females: 67.10 " Total animals: 65.48 "			
61	191	154	345	Per cent { Males: 45.83 Females: 54.17			
62	178	146	324				
63	184	148	332				
64	186	132	318				
65	191	132	323				
66	273	148	421				
67	278	155	433				
68	244	119	363				

Sei-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
33	—	1	1	52	600	1,509	2,109
34	1	1	2	53	149	1,040	1,189
35	2	1	3	54	47	725	772
37	1	1	2	55	17	397	414
38	—	2	2	56	2	150	152
39	1	3	4	57	—	48	48
40	69	67	136	58	1	9	10
41	146	78	224	59	—	3	3
42	119	107	226	60	—	1	1
43	217	142	359	Sum	11,128	8,710	19,838
44	304	170	474	Average size { Males: 48.33 feet Females: 50.49 " Total animals: 49.28 "			
45	476	221	697	Per cent { Males: 56.09 Females: 43.91			
46	773	271	1,044				
47	1,335	357	1,692				
48	1,888	478	2,366				
49	1,998	703	2,701				
50	1,927	1,035	2,962				
51	1,055	1,190	2,245				

Table No. 4 (continued).

Sperm-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
35	1	-	1	50	274	-	274
36	1	-	1	51	171	-	171
37	1	-	1	52	110	-	110
38	121	63	184	53	46	-	46
39	131	12	143	54	27	-	27
40	155	-	155	55	18	-	18
41	176	-	176	56	5	-	5
42	203	-	203	Sum	4,127	75	4,202
43	322	-	322	Average size			{ Males: 45.75 feet
44	364	-	364				{ Females: 38.16 "
45	399	-	399				{ Total animals: 45.62 "
46	430	-	430	Per cent			{ Males: 98.22
47	412	-	412				{ Females: 1.78
48	448	-	448				
49	312	-	312				

Table No. 5.—Whales caught in the Antarctic in the season 1964/65, by species, sex and groups of size.

Total Antarctic.

Blue-whales.

	Number of whales.	Per cent.
Group 1. (70 feet and less)	9	45.00
„ 2. (71 feet to and incl. 85 feet)	10	50.00
„ 3. (above 85 feet)	1	5.00
	20	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)	71	0.91
„ 2. (56 feet to and incl. 65 feet)	3,736	47.92
„ 3. (above 65 feet)	3,989	51.17
	7,796	100.00
Immature males	1,508	42.70
„ females	1,561	36.61
„ animals	3,069	39.37
Mature males	2,024	57.30
„ females	2,703	63.39
„ animals	4,727	60.63

Table No. 5 (continued).

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

	Number of whales.	Per cent.
Group 1. (55 feet and less)	25	5.10
„ 2. (56 feet to and incl. 65 feet)	178	36.33
„ 3. (above 65 feet)	287	58.57
	490	100.00
Immature males	75	40.76
„ females	83	27.12
„ animals	158	32.24
Mature males	109	59.24
„ females	223	72.88
„ animals	332	67.76

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

	Number of whales.	Per cent.
Group 1. (70 feet and less)	9	45.00
„ 2. (71 feet to and incl. 85 feet)	10	50.00
„ 3. (above 85 feet)	1	5.00
	20	100.00
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)	46	0.63
„ 2. (56 feet to and incl. 65 feet)	3,558	48.70
„ 3. (above 65 feet)	3,702	50.67
	7,306	100.00
Immature males	1,433	42.80
„ females	1,478	37.34
„ animals	2,911	39.84
Mature males	1,915	57.20
„ females	2,480	62.66
„ animals	4,395	60.16

Table No. 6.—Average production of whale oil per blue-whale unit in the Antarctic in the season 1964/65.

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.
			Barrels ²⁾	Barrels ³⁾
<i>South Georgia</i>	No. 1	191.2	24,235	126.8
	„ 2	139.8	14,794	105.8
	Total	331.0	39,029	117.9
<i>Antarctic, pelagic whaling</i>	No. 1	329.8	46,400	140.7
	„ 2	353.7	49,623	140.3
	„ 3	419.3	57,225	136.5
	„ 4	165.8	22,398	135.1
	„ 5	610.0	76,547	125.5
	„ 6	582.8	72,000	123.5
	„ 7	625.1	76,335	122.1
	„ 8	665.8	81,077	121.8
	„ 9	604.8	73,676	121.8
	„ 10	625.0	74,324	118.9
	„ 11	401.0	47,376	118.1
	„ 12	200.0	21,765	108.8
	„ 13	600.0	64,958	108.3
	„ 14	386.0	39,371	102.0
	„ 15	410.0	41,382	100.9
Total		6,979.1	844,457	121.0

¹⁾ This refers to whales worked up. ²⁾ Barrel = 170 kg. (Barrel = abt. 1/6 long ton, 1 long ton = 1,016 kg.)

Table No. 7.—Size of pregnant whale females caught in the Antarctic in the season 1964/65.

Blue-whale females.

Length of mothers.	Number of pregnant animals.	Number of fetuses measured 6. Total number of blue-whale females measured 14, of which pregnant animals 6, or 42.86 per cent.
Engl. feet.		
71	1	
72	3	
73	2	
Total	6	

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.		
58	1	72	146	Number of fetuses measured 1,229 of which twin pairs 10 Total number of fin-whale females measured 4,264, of which pregnant animals 1,219, or 28.59 per cent.
59	1	73	184	
60	2	74	106	
61	6	75	117	
62	8	76	62	
63	16	77	47	
64	31	78	20	
65	32	79	10	
66	44	80	2	
67	70	81	8	
68	56	82	1	
69	68			
70	96	Total	1,219	
71	85			

Sei-whale females.

Length of mothers.	Number of pregnant animals.	Length of mothers.	Number of pregnant animals.	
Engl. feet.		Engl. feet.		
43	4	53	584	Number of fetuses measured 4,058 of which twin pairs 61 » » triplets 5 Total number of sei-whale females measured 8,952, of which pregnant animals 3,987, or 44.54 per cent.
44	7	54	422	
45	14	55	215	
46	44	56	81	
47	91	57	30	
48	177	58	7	
49	313	59	3	
50	538	60	1	
51	629			
52	827	Total	3,987	

Sperm-whale females.

Length of mothers.	Number of pregnant animals.	
Engl. feet.		
38	8	Number of fetuses measured 8. Total number of sperm-whale females measured 75, of which pregnant animals 8, or 10.67 per cent.

Table No. 8.—Whale fetuses measured in the Antarctic in the season 1964/65, by species and groups of size, in each month.

Blue-whale fetuses.

Groups of size. Engl. feet.	February	March	Total
9'—9' 11"	1	1	2
11'—11' 11"	1	—	1
12'—12' 11"	1	—	1
19'—19' 11"	1	—	1
20'—20' 11"	1	—	1
Total blue-whale fetuses	5	1	6
Average size of fetuses	14' 8"	9' 6"	13' 10"

Table No. 8 (continued).

Fin-whale foetuses.

Groups of size. Engl. feet.	Oct.	Nov.	Dec.	Jan.	Febr.	March	April	Total
0'—0' 11"	—	—	19	1	1	—	—	21
1'—1' 11"	2	2	33	20	2	3	—	62
2'—2' 11"	—	2	41	32	5	5	—	85
3'—3' 11"	—	—	69	46	14	8	—	137
4'—4' 11"	1	—	51	41	10	9	—	112
5'—5' 11"	—	—	55	39	19	5	2	120
6'—6' 11"	—	1	50	53	26	10	2	142
7'—7' 11"	—	—	35	42	14	13	—	104
8'—8' 11"	—	—	36	31	19	12	1	99
9'—9' 11"	—	—	14	45	14	10	—	83
10'—10' 11"	—	—	10	21	12	19	—	62
11'—11' 11"	—	—	—	14	19	16	3	52
12'—12' 11"	—	—	—	12	10	19	1	42
13'—13' 11"	—	—	—	6	22	14	2	44
14'—14' 11"	—	—	—	3	7	10	—	20
15'—15' 11"	—	—	—	1	5	12	—	18
16'—16' 11"	—	—	1	—	2	6	1	10
17'—17' 11"	—	—	—	—	1	9	2	12
18'—18' 11"	—	—	—	—	—	3	—	3
Total fin-whale foetuses	3	5	414	¹⁾ 407	202	183	14	¹⁾ 1,228
Average size of foetuses	2' 4"	3' 6"	4' 11"	6' 7"	8' 9"	10' 5"	11' 4"	7' 0"

¹⁾ In addition 1 foetus, length not stated.

Sei-whale foetuses.

Groups of size. Engl. feet.	Okt.	Nov.	Dec.	Jan.	Febr.	March.	April.	Total.
0'—0' 11"	1	—	—	—	—	—	—	1
1'—1' 11"	—	—	5	21	5	—	—	31
2'—2' 11"	1	1	19	62	23	1	—	107
3'—3' 11"	—	1	28	125	62	8	—	224
4'—4' 11"	—	—	36	152	101	25	1	315
5'—5' 11"	—	—	30	203	140	34	—	407
6'—6' 11"	—	—	35	257	190	50	1	533
7'—7' 11"	—	—	17	276	221	56	1	571
8'—8' 11"	—	—	5	229	296	93	1	624
9'—9' 11"	—	—	2	108	251	111	2	474
10'—10' 11"	—	—	1	54	206	99	3	363
11'—11' 11"	—	—	—	9	87	113	3	212
12'—12' 11"	—	—	—	7	58	66	1	132
13'—13' 11"	—	—	—	3	9	32	4	48
14'—14' 11"	—	—	—	1	2	11	—	14
15'—15' 11"	—	—	—	—	—	1	—	1
16'—16' 11"	—	—	—	—	1	—	—	1
Total sei-whale foetuses	2	2	178	1,507	1,652	700	17	4,058
Average size of foetuses	1' 8"	3' 2"	5' 0"	6' 5"	7' 11"	9' 5"	10' 5"	7' 6"

Table No. 8 (continued).

Sperm-whale foetuses.

Groups of size. Engl. feet.	Nov.
5'— 5' 11"	3
6'— 6' 11"	2
7'— 7' 11"	1
9'— 9' 11"	2
Total sperm-whale foetuses	8
Average size of foetuses	7' 0"

Table No. 9.—Whale foetuses measured in the Antarctic in the season 1964/65, 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	3	2	—	5	150.00
March	—	1	—	1	—
Total	3	3	—	6	150.00
Fin-whale foetuses.					
October	1	2	—	3	50.00
November	—	4	1	5	—
December	218	194	3	415	112.37
January	211	195	1	407	108.21
February	105	97	—	202	108.25
March	96	87	—	183	110.34
April	8	6	—	14	133.33
Total	639	585	5	1,229	109.23
Sei-whale foetuses.					
October	—	1	1	2	—
November	1	1	—	2	100.00
December	96	82	—	178	117.07
January	759	748	—	1,507	101.47
February	821	829	2	1,652	99.03
March	335	365	—	700	91.78
April	10	7	—	17	142.86
Total	2,022	2,033	3	4,058	99.46
Sperm-whale foetuses.					
November	3	5	—	8	60.00

