

DET NORSKE HVALRÅDS STATISTISKE PUBLIKASJONER

INTERNATIONAL WHALING STATISTICS

LII

EDITED BY
THE COMMITTEE FOR WHALING STATISTICS



OSLO 1964

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P R E F A C E

The present publication, International Whaling Statistics No. LII, embraces the results of the Antarctic whaling during the season 1962-63.

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

Oslo, December 1963.

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INTRODUCTION

Regulative provisions.

At the meeting of the International Whaling Commission in 1960 it was decided to suspend for the seasons 1960–61 and 1961–62 the provisions in the Schedule concerning a maximum catch of 15 000 blue-whale units for the pelagic expeditions in the Antarctic. However, at the request of the International Whaling Commission, the countries engaged in pelagic whaling in the Antarctic adopted a voluntary limitation, each single country stipulating a maximum catch for its expeditions. The catch during these two seasons, when the maximum catch was suspended, amounted to 16,434 and 15,253 blue-whale units, respectively.

After the expiry of the 1961–62 season the provision concerning a maximum catch of 15,000 blue-whale units was automatically reintroduced and remains in force until the Commission stipulates some other maximum catch.

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

In accordance with the quota agreement the transfer of quotas from one country to another is permitted only in connection with the sale of factory ships. One Norwegian and one British floating factory were later 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 for 1962–63 was as follows:

Japan	41 per cent
Norway	28 per cent
U.S.S.R.	20 per cent
The Netherlands	6 per cent
United Kingdom	5 per cent
<hr/>	
Total	100 per cent

The Netherlands should on certain conditions have an additional quota of up to 70 blue-whale units per season. If the stipulated conditions were fulfilled, so that the Netherlands might claim this additional quota, it should be ceded by Norway, Japan and United Kingdom according to detailed rules.

The maximum catch for the season 1962-63 was, as already stated, 15,000 blue-whale units, and pursuant to the aforesaid apportionment figures, the quotas of the individual countries were as follows:

	Season 1962-63 Blue-whale units
Japan	6,150
Norway	4,200
U.S.S.R.	3,000
The Netherlands.....	900
United Kingdom	750

With the exception of reintroduction of the provision for a maximum catch of 15,000 blue-whale units and the aforesaid quota agreement the other regulative provisions in the season 1962-63 were mainly the same as in the previous season, namely:

1. The open season for the taking of fin- and sei-whales was from December 12th.
2. The open season for the taking of blue-whales was from February 1st. The Commission resolved in 1960 that the opening date for taking of blue-whales should be February 14th. However, all the countries engaged in pelagic whaling in the Antarctic filed protest against this resolution, which did not therefore become effective.
3. The season was open to April 7th inclusive for the taking of blue-, fin- and sei-whales.
4. The open season for humpback whales was until and including the season 1959-60 January 20th, 21st, 22nd and 23rd. At the meeting of the whaling Commission in 1960 it was resolved that the whaling period for humpback whales should be as follows:

Area III, 0°—70° east, in the period January 20th, 21st, 22nd and 23rd.

Area IV, 70° east — 130° east, totally protected until and including the season 1962-63.

Area V, 130° east—170° west, in the period January 20th, 21st and 22nd.

Area VI, 170° west — 120° west, in the period January 20th, 21st, 22nd and 23rd.

Area I, 120° west — 60° west, in the period January 20th, 21st, 22nd and 23rd.

Protests were, however, filed against the changes by all the countries engaged in pelagic whaling in the Antarctic, and the catching period for humpback whales, which was in force in 1959–60, applied also in 1960–61 and 1961–62. However, all the protests have now been withdrawn, and the resolution of 1960 has consequently been established.

5. The taking of humpback whales was prohibited between 0° and 60° West Longitude (Area II).
6. It was forbidden to take:

Blue-whales	under 70 feet	
Fin-whales	»	57 »
Sei-whales	»	40 »
Humpbacks	»	35 »

Further it was forbidden to kill grey-whales, right-whales, and female whales accompanied by a calf. The Convention also contained a provision enjoining full utilization of whales.

7. The open season for sperm-whales was 8 months and the minimum size limit was 38 feet.

Whaling period.

As in the previous season the catch of fin- and sei-whales in the season 1962–63 commenced on December 12th and terminated on April 7th.

The whaling period and number of catching days for the pelagic baleen whaling operations in the seasons 1932–33, 1934–35, 1936–37 and as from 1945–46 will be seen from the survey below:

Season	Whaling period	Catching days
1932–33.....	October 20th–April 14th	177
1934–35.....	December 1st–March 31st	121
1936–37.....	December 8th–March 7th	90
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

Season	Whaling period	Catching days
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

In the four last 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 and in 1962-63 111 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

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 15th to April 1st. As will appear from the table, the highest weekly catch during the last season (from January 27th to February 2nd) was 998 blue-whale units, and the lowest (from December 23rd to December 29th) with all expeditions in operation, was 523 blue-whale units. The corresponding figures for the season 1961-62 were 1,406 units (from March 18th to March 24th) and 541 units (December 24 th— December 30th).

Whaling matériel.

During the Antarctic season 1962-63 17 floating factories with a total of 201 catchers were in operation. This is 4 floating factories and 60 catchers fewer than in the season 1961-62. Two Norwegian factory ships, which, with the exception of the war seasons, have carried on whaling in almost all

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

Season 1960—61.		Season 1961—62.		Season 1962—63.	
Week ending	Number of blue-whale units	Week ending	Number of blue-whale units	Week ending	Number of blue-whale units
$28/12$ — $31/12$	1) 1,079	$12/12$ — $23/12$	1,483	$12/12$ — $22/12$	1,114
$7/1$	1,221	$30/12$	541	$29/12$	523
$14/1$	1,394	$6/1$	796	$5/1$	758
$21/1$	1,549	$13/1$	1,190	$12/1$	555
$28/1$	1,173	$20/1$	962	$19/1$	664
$4/2$	1,268	$27/1$	1,134	$26/1$	729
$11/2$	1,687	$3/2$	1,187	$2/2$	998
$18/2$	1,175	$10/2$	1,271	$9/2$	782
$25/2$	1,222	$17/2$	1,142	$16/2$	881
$4/3$	1,071	$24/2$	803	$23/2$	917
$11/3$	1,139	$3/3$	833	$2/3$	717
$18/3$	941	$10/3$	860	$9/3$	718
$25/3$	740	$17/3$	884	$16/3$	556
$1/4$	463	$24/3$	1,406	$23/3$	582
$7/4$	300	$31/3$	478	$30/3$	406
		$7/4$	272	$7/4$	401
Total $28/12$ — $7/4$ (101 days)	16,422	Total $12/12$ — $7/4$ (117 days)	15,242	Total $12/12$ — $7/4$ (117 days)	11,301

1) Includes the catch of one expedition from and incl. November 28th 1960.

Table b.—Number and gross tonnage of floating factories and catchers engaged in pelagic whaling in the Antarctic 1945/46—1962/63.

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

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

seasons since 1928–29, were in 1962 withdrawn from the operations and sold for breaking up. Another Norwegian factory ship was inactive in the season 1962–63. Finally a British factory ship was sold to Japan for delivery after the season 1961–62. This ship was not used in the Antarctic season 1962–63. With these exceptions the same pelagic expeditions participated in the operations in the season 1962–63 as in 1961–62. One Norwegian factory ship suffered extensive damage at sea and had to cease operations on January 29th 1963.

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

Countries	Season 1960–61		Season 1961–62		Season 1962–63	
	Floating factories	Catchers	Floating factories	Catchers	Floating factories	Catchers
Norway	8	81	7	71	4	32
United Kingdom	2	22	2	22	1	9
Netherlands	1	14	1	15	1	11
Japan	7	83	7	86	7	79
U. S. S. R.	3	52	4	67	4	70
Total	21	252	21	261	17	201

No whaling was carried on from land stations on South Georgia in the season 1962–63. Whaling from South Georgia has otherwise been carried on ever since the Antarctic whaling commenced in 1904–05 and until 1961–62.

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.

It will be seen from this table that the average gross tonnage of the floating factories amounted to 20,858 in 1962–63 as compared with 19,352 gross tons in the preceding season. This increase is due to the fact that two of the four factory ships which were withdrawn from the operations in 1962–63 were relatively small. The average engine power of the catchers increased by 234 I.H.P., chiefly due to the fact that the 60 catchers withdrawn from the operations in 1962–63 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

Season	Number of floating factories	Number of catchers	Average number of catchers per floating factory
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

In 1962-63 the Norwegian expeditions used on an average 8.0 catchers per floating factory (10.1 catchers in 1961-62), the British expedition 9.0 catchers (11.0 in 1961-62), the Japanese expeditions 11.2 catchers (12.3 in 1961-62), the Netherlands expedition 11.0 catchers (15.0 in 1961-62) and the Russian expeditions 17.5 catchers (16.8 in 1961-62).

Whaling results.

The total catch of the pelagic expeditions in the season 1962-63 amounted to 25,388 baleen whales, which, converted into blue-whale units gave 11,306.1 units. This was a decline of 3,947 blue-whale units as compared with the season 1961-62. Apart from the war seasons, the first postwar season (1945-46) and the lay-up season 1931-32, one must go right back to the season 1927-28 to find a similar low catch in the Antarctic.

The catch in 1962-63 with specification in respect to the various species of whales killed, will be seen from tables c and d, pages 14 and 15.

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

Countries	Catch 1962-63 in blue-whale units
Japan	6,149.6
U.S.S.R.	2,816.0
Norway	1,380.5
United Kingdom	502.5
Netherlands	457.5
<hr/>	
Total	11,306.1

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.	Sei.	Sperm.	Others.			Shore stations.	Floating factories.	Catchers.	
1919-20	1,874	3,213	261	71	8	1 ¹⁾ 14	5,441	Barrels. 272,817	6	6	44	124
1920-21	2,617	5,491	260	36	31	1 ¹⁾ 13	8,448	390,627	6	8	47	180
1921-22	4,416	2,492	9	103	3	—	7,023	452,517	6	8	46	153
1922-23	5,683	3,677	517	10	23	—	9,910	614,547	6	13	60	165
1923-24	3,732	3,035	233	193	66	1 ¹⁾ 12	7,271	464,678	6	14	66	110
1924-25	5,703	4,366	359	1	59	—	10,488	697,091	6	13	65	161
1925-26	4,697	8,916	364	195	37	1 ¹⁾ 10	14,219	783,307	6	15	70	203
1926-27	6,545	5,102	189	778	39	1 ¹⁾ 12	12,665	872,362	6	17	80	158
1927-28	8,334	4,459	23	883	72	1 ¹⁾ 4	13,775	1,037,392	6	18	84	164
1928-29	12,734	6,689	48	808	62	—	20,341	1,631,340	6	26	111	183
1929-30	17,898	11,614	853	216	73	1 ¹⁾ 1	30,655	2,546,759	6	38	194	158
1930-31	29,410	10,017	576	145	51	1 ¹⁾ 2	40,201	3,608,348	6	41	232	173
1931-32	6,488	2,871	184	16	13	—	9,572	808,560	2	5	45	213
1932-33	18,891	5,168	159	2	107	—	24,327	2,456,462	1	17	118	206
1933-34	17,349	7,200	872	—	666	—	26,087	2,395,544	2	19	126	207
1934-35	16,500	12,500	1,965	266	577	—	31,808	2,453,999	2	23	153	208
1935-36	17,731	9,697	3,162	2	399	—	30,991	2,436,338	2	24	175	177
1936-37	14,304	14,381	4,477	490	926	1 ¹⁾ 1	34,579	2,658,108	2	30	196	176
1937-38	14,923	28,009	2,079	161	867	—	46,039	3,340,330	2	31	256	180
1938-39	14,081	20,784	883	22	2,585	1 ¹⁾ 1	38,356	2,820,771	2	34	281	136
1939-40	11,480	18,694	2	81	1,938	2 ²⁾ 705	32,900	2,544,253	2	28	240	137
1940-41	4,943	7,831	2,675	110	804	—	16,363	1,100,008	1	11	93	176
1941-42	59	1,189	16	52	109	—	1,425	77,819	2	—	12	119
1942-43	125	776	—	73	24	—	998	50,960	1	—	6	166
1943-44	339	1,158	4	197	101	—	1,799	132,001	1	1	15	120
1944-45	1,042	1,666	60	78	45	—	2,891	223,540	1	1	15	193
1945-46	3,606	9,185	238	85	273	—	13,387	818,652	3	9	93	144
1946-47	9,192	14,547	29	393	1,431	1 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	3 ³⁾ 1	33,997	2,303,690	3	19	260	131
1951-52	5,130	22,527	1,556	530	5,485	4 ⁴⁾ 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	4 ⁴⁾ 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	4 ⁴⁾ 42	38,580	2,307,171	3	19	278	139
1956-57	1,512	27,757	679	1,692	4,429	4 ⁴⁾ 46	36,115	2,246,922	3	20	246	147
1957-58	1,690	27,473	396	3,309	6,535	4 ⁴⁾ 493	39,896	2,317,638	2	20	257	155
1958-59	1,192	27,128	2,394	2,421	5,652	4 ⁴⁾ 103	38,890	2,152,659	3	20	256	152
1959-60	1,239	27,575	1,338	4,309	4,227	4 ⁴⁾ 204	38,892	2,148,438	3	20	241	161
1960-61	1,744	28,761	718	5,102	4,800	5 ⁵⁾ 164	41,289	2,232,884	3	21	268	154
1961-62	1,118	27,099	309	5,196	4,829	6 ⁶⁾ 4	38,555	2,051,776	1	21	269	143
1962-63	947	18,668	270	5,503	4,771	7 ⁷⁾ 23	30,182	1,495,779	—	17	201	150

¹⁾ Right-whales. ²⁾ 703 "Baleen-whales" no specification given, 2 right-whales. ³⁾ Bottlenose. ⁴⁾ Minke-whales. ⁵⁾ 2 right-whales and 162 Minke-whales. ⁶⁾ 1 right-whale, 2 Minke-whales and 1 Baird's beaked whale. ⁷⁾ 21 Minke-whales and 2 bottlenoses.

Table d.—Pelagic whaling in the Antarctic.¹

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.	
1919-20	887	1,540	182	—	—	—	2,609	Barrels. 125,788	—	6	18	145
1920-21	1,761	2,848	157	—	—	—	4,766	213,490	1	8	26	183
1921-22	1,846	1,782	—	—	—	—	3,628	203,475	1	8	26	140
1922-23	2,114	2,232	197	—	4	—	4,547	266,994	1	12	37	123
1923-24	1,805	1,657	103	2	17	²⁾ 12	3,596	217,215	1	13	43	84
1924-25	2,191	2,347	97	—	35	—	4,670	290,915	1	12	41	114
1925-26	2,842	3,207	128	182	25	²⁾ 10	6,394	378,850	1	14	47	136
1926-27	2,856	3,958	189	413	22	²⁾ 12	7,450	455,070	1	16	57	131
1927-28	6,209	3,102	23	788	12	²⁾ 4	10,138	733,912	1	17	61	166
1928-29	11,174	3,559	33	412	31	—	15,209	1,282,711	1	25	88	173
1929-30	17,410	8,218	807	—	34	—	26,469	2,298,796	1	38	167	158
1930-31	28,325	8,601	510	1	27	²⁾ 1	37,465	3,420,410	1	41	205	183
1931-32	6,050	1,136	178	—	3	—	7,367	686,355	—	5	33	223
1932-33	18,624	4,441	159	—	107	—	23,331	2,401,879	—	17	112	208
1933-34	16,813	5,472	780	—	659	—	23,724	2,263,357	—	19	114	208
1934-35	15,944	11,664	1,928	141	556	—	30,233	2,345,858	—	23	143	211
1935-36	16,510	9,177	3,121	2	396	—	29,206	2,293,153	—	24	165	177
1936-37	14,183	13,302	4,460	19	856	²⁾ 1	32,821	2,576,479	—	30	184	178
1937-38	14,826	26,457	2,039	6	824	—	44,152	3,250,064	—	31	244	181
1938-39	13,849	19,477	883	3	2,468	²⁾ 1	36,681	2,709,281	—	34	270	136
1939-40	11,392	17,757	2	1	1,853	³⁾ 704	31,709	2,479,471	—	28	228	139
1940-41	4,936	7,084	2,675	22	778	—	15,495	1,055,510	—	11	88	176
1941-42	—	—	—	—	—	—	—	—	—	—	—	—
1942-43	—	—	—	—	—	—	—	—	—	—	—	—
1943-44	311	526	—	—	—	—	837	82,000	—	1	8	105
1944-45	914	679	—	2	—	—	1,595	148,000	—	1	8	199
1945-46	3,526	7,729	—	3	216	—	11,474	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	⁴⁾ 1	31,180	2,152,498	—	19	239	130
1951-52	5,124	20,520	1,546	32	5,344	⁵⁾ 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	⁵⁾ 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	⁵⁾ 42	35,531	2,134,808	—	19	257	138
1956-57	1,505	25,700	679	712	4,345	⁵⁾ 46	32,987	2,098,854	—	20	225	147
1957-58	1,684	25,222	396	2,385	6,310	⁵⁾ 493	36,490	2,146,206	—	20	237	154
1958-59	1,191	25,837	2,394	1,402	5,437	⁵⁾ 103	36,364	2,050,241	—	20	235	155
1959-60	1,230	26,415	1,338	3,234	4,138	⁵⁾ 204	36,559	2,050,892	—	20	220	166
1960-61	1,740	27,374	718	4,310	4,666	⁶⁾ 164	38,972	2,123,157	—	21	252	155
1961-62	1,118	26,438	309	4,749	4,743	⁷⁾ 4	37,361	2,001,961	—	21	261	143
1962-63	947	18,668	270	5,503	4,771	⁸⁾ 23	30,182	1,495,779	—	17	201	150

¹⁾ For the seasons 1919/20-1930/31 the catch in the Ross Sea and from South Shetland and South Orkney is included in the figures for pelagic whaling in the Antarctic. ²⁾ Right-whales. ³⁾ 703 "Baleen whales" no specification given, 1 right-whale. ⁴⁾ Bottlenose. ⁵⁾ Minke-whales. ⁶⁾ 2 right-whales and 162 Minke-whales. ⁷⁾ 1 right-whale, 2 Minke-whales and 1 Baird's beaked whale. ⁸⁾ 21 Minke-whales and 2 bottlenoses.

Table e.—Average production per floating factory and catcher in the pelagic whaling in Antarctic 1934/35—1938/39 and 1946/47—1962/63.

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.
1934-35	2,312,702	23	100,552	2,831	123	18,802	817
1935-36	2,269,524	24	94,564	2,329	97	23,397	974
1936-37	2,527,026	30	84,234	2,881	96	26,323	877
1937-38	3,201,153	31	103,263	3,157	102	31,384	1,014
1938-39	2,564,506	34	75,427	3,273	96	26,714	784
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

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 ¹⁾ per catcher's day-work
				Total.	Average per catcher.		
	Barrels.		Barrels.			Barrels.	
1934-35	2,312,702	143	16,173	18,143	127	127	1.64
1935-36	2,269,524	165	13,755	16,173	98	140	1.78
1936-37	2,527,026	184	13,734	17,656	96	143	1.81
1937-38	3,201,153	244	13,119	24,897	102	129	1.74
1938-39	2,564,506	270	9,498	25,954	96	99	1.32
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	233	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

¹⁾ Not including sperm-whales.

In 1962-63 the pelagic expeditions processed 11,283.5 blue-whale units, yielding 1,293,491 barrels of whale-oil, and 4,757 sperm-whales yielding 202,288 barrels of sperm-oil.

The total whaling results in the Antarctic from 1919-20 up to and including 1962-63 are given in table c, page 14. In table d, page 15, the pelagic results during the same period have been recorded separately.

The catch of 947 blue-whales in the season 1962-63 was the lowest recorded since the war seasons, and decreased by 171 animals as compared with the season 1961-62. The number of fin-whales killed in 1962-63 amounted to 18,668 or 7,770 animals fewer than in 1961-62. During the seasons 1953/54-1961/62 the fin-whale catch varied between 27,000 and 28,000 animals (including the number of fin-whales killed from the land stations on South Georgia). In 1962-63 270 humpbacks were killed, as compared with 309 in the preceding season. The catch of sei-whales was 5,503 or 750 animals more than in 1961-62. The number of sperm-whales killed in 1962-63, 4771 animals, was equal to the average catch of the 8 preceding seasons.

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 1962-63 amounted to 689 barrels as against 744 and 956 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 1962-63 was only 57 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 f, page 18, illustrates the relation between the various species of whales killed in pelagic operations in the Antarctic from 1928-29. During the two last seasons, 1961-62 and 1962-63 3 per cent of all whales killed were blue-whales against 4.5 per cent in the season 1960-61. The fin-whale catch in 1962-63 represented 62 per cent compared with 71 per cent during each of the two preceding seasons. While the humpback catch during the four last seasons has diminished from 7 per cent of all whales killed in 1958-59 to 1 per cent in 1962-63, the catch of sei-whales during the same period has increased from 4 to 18 per cent. The sperm-whale catch represented 16 per cent of all whales killed in 1962-63 as against 13 and 12 per cent in the two preceding seasons.

In tables g and h, pages 19 and 20, the monthly catch of the various species of whales is recorded in absolute and percentage figures for a series of years.

Table f.—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.
1928-29.....	73.5	23.4	0.2	2.7	0.2	100
1929-30.....	65.8	31.0	3.1	—	0.1	100
1930-31.....	75.6	23.0	1.3	—	0.1	100
1931-32.....	82.1	15.4	2.4	—	0.1	100
1932-33.....	79.8	19.0	0.7	—	0.5	100
1933-34.....	70.9	23.1	3.3	—	2.7	100
1934-35.....	52.7	38.6	6.4	0.5	1.8	100
1935-36.....	56.5	31.4	10.7	—	1.4	100
1936-37.....	43.2	40.5	13.6	0.1	2.6	100
1937-38.....	33.5	59.9	4.6	0.1	1.9	100
1938-39.....	37.8	53.1	2.4	—	6.7	100
1939-40.....	36.7	57.3	—	—	6.0	100
1940-41.....	31.9	45.7	17.3	0.1	5.0	100
1943-44.....	37.2	62.8	—	—	—	100
1944-45.....	57.3	42.6	—	0.1	—	100
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

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 1960/61	Season 1961/62	Season 1962/63
40°—50° South Lat.	—	—	—	1,862	1,031	2,746
50°—60° » »	4,709	3,703	5,299	8,203	9,187	5,560
60°—70° » »	19,223	12,114	9,194	6,208	4,947	2,972
70°—80° » »	—	103	741	101	63	28
Total	23,932	15,920	15,234	16,374	15,228	11,306

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 animals.</i>	1953-54..	141	1,875	12,320	10,295	6,239	—	30,870	31,215
	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	
<i>Blue- whales.</i>	1953-54..	1	1	567	1,365	734	—	2,668	2,684
	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	
<i>Fin- whales.</i>	1953-54..	—	9	11,411	8,001	5,254	—	24,675	24,986
	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	
<i>Hump- backs.</i>	1953-54..	—	—	—	587	6	—	593	594
	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	
<i>Sei- whales.</i>	1953-54..	—	—	60	147	42	—	249	251
	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	
<i>Sperm- whales.</i>	1953-54..	141	1,865	282	195	203	—	2,686	2,700
	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	466	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	

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>	1953-54	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
	
	
<i>Blue-whales</i>	1953-54	1.6	0.1	4.6	13.3	11.8	—	8.7	8.6
	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	
<i>Fin-whales</i>	1953-54	1.5	0.5	92.6	77.7	84.2	—	79.9	80.0
	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	
<i>Hump-backs</i>	1953-54	—	—	—	5.7	—	—	1.9	1.9
	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	
<i>Sei-whales</i>	1953-54	—	—	0.5	1.4	0.7	—	0.8	0.8
	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	
<i>Sperm-whales</i>	1953-54	100.0	99.4	2.3	1.9	3.3	—	8.7	8.7
	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	

The distribution of the various species of whales killed in the season 1962-63 was as follows:

Catch between each 10 degrees latitude in the Antarctic.

	Blue-whales	Fin-whales	Humpbacks	Sei-whales	Sperm-whales	Total of whales
40°—50° South Lat.	602	3,747	25	1,524	1,317	7,215
50°—60° » »	139	10,402	7	1,269	1,973	13,790
60°—70° » »	180	4,475	238	2,689	1,467	9,049
70°—80° » »	23	12	—	—	—	35
Total	944	18,636	270	5,482	4,757	30,089

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	60°	west	and	120°	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 1945/46-1962/63 and in the seasons 1961-62 and 1962-63.

Areas	Catch in blue-whale units 1945/46-1962/63		Catch in blue-whale units 1961/62		Catch in blue-whale units 1962/63	
	Number	Per cent	Number	Per cent	Number	Per cent
Total	265,898	100.0	15,229	100.0	11,306	100.0
Of which in:						
Area II	66,004	24.8	3,729	24.5	3,109	27.5
” III	97,397	36.6	6,488	42.6	5,491	48.6
” IV	43,139	16.2	1,792	11.8	1,010	8.9
” V	28,471	10.7	693	4.5	586	5.2
” VI	20,429	7.7	718	4.7	257	2.3
” I	10,458	4.0	1,809	11.9	853	7.5

Also in the season 1962-63 Areas II and III contributed most to the catch results. In these areas 3,109 and 5,491 blue-whale units were obtained respectively, i.e. altogether 8,600 units or 76 per cent of the total catch.

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.

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	1945/46-1948/49	6,014	22.6	78.1	10,756	40.5	78.7	6,623	24.9	78.7
4	1949-50	1,064	17.3	78.4	1,512	24.7	78.5	925	15.1	78.9
5	1950-51	1,514	21.9	77.3	1,427	20.6	77.8	1,076	15.5	77.7
6	1951-52	447	8.8	78.2	1,836	36.0	79.2	1,199	23.5	77.7
7	1952-53	727	18.9	78.9	1,454	37.8	77.7	837	21.8	77.0
8	1953-54	542	20.3	78.1	1,569	58.8	78.2	356	13.4	77.2
9	1954-55	470	21.8	79.0	685	31.8	78.1	310	14.4	77.6
10	1955-56	439	27.3	77.1	300	18.6	78.8	322	20.0	77.7
11	1956-57	330	21.9	76.9	275	18.3	78.4	80	5.3	78.5
12	1957-58	236	14.0	77.8	620	36.9	77.4	186	11.1	76.7
13	1958-59	57	4.8	80.5	373	31.4	79.0	335	28.2	78.0
14	1959-60	58	4.7	79.2	231	18.8	77.4	403	32.8	73.3
15	1960-61	128	7.4	79.7	1,152	66.2	72.6	151	8.7	71.8
16	1961-62	189	16.9	77.6	477	42.8	72.9	97	8.7	74.0
17	1962-63	14	1.5	83.8	741	78.5	71.2	40	4.2	74.7
	1931/32-1962/63	38,436	20.3	78.6	76,936	40.7	78.2	56,451	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	1945/46-1948/49	20,687	36.6	67.5	20,122	35.6	68.1	11,077	19.6	67.6
4	1949-50	7,150	40.0	67.5	5,117	28.6	67.5	2,940	16.5	66.6
5	1950-51	5,081	29.4	66.4	4,133	23.9	66.2	4,210	24.3	66.5
6	1951-52	5,977	29.4	67.9	7,122	35.1	68.1	2,141	10.5	67.3
7	1952-53	4,551	21.7	68.1	11,364	54.2	67.1	1,449	6.9	66.2
8	1953-54	7,653	31.0	67.4	11,459	46.4	67.0	2,195	8.9	67.0
9	1954-55	4,963	19.4	67.3	13,607	53.1	66.4	2,790	10.9	66.4
10	1955-56	6,619	26.4	66.2	7,088	28.2	66.8	3,208	12.8	66.5
11	1956-57	10,697	41.9	67.4	3,812	15.0	67.2	291	1.1	64.6
12	1957-58	5,211	20.8	67.3	9,197	36.7	66.7	3,579	14.3	65.6
13	1958-59	4,298	16.7	67.1	9,385	36.6	66.4	7,277	28.3	66.5
14	1959-60	4,920	18.7	66.9	9,307	35.4	66.7	6,501	24.8	66.3
15	1960-61	5,223	19.1	66.6	13,269	48.6	67.5	2,086	7.7	65.7
16	1961-62	6,650	25.2	67.5	11,847	44.9	66.7	3,129	11.9	64.8
17	1962-63	5,570	29.9	67.0	8,977	48.2	65.9	1,725	9.3	65.4
	1931/32-1962/63	147,276	30.2	67.4	185,034	38.0	67.1	75,085	15.4	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	-	-	-
	1931/32-1962/63	1,536	5.4	41.3	7,879	27.5	40.9	12,457	43.5	40.3

¹⁾ Incl. 608 blue-whales, length not stated. ²⁾ Incl. 193 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	^{b)} 122,263	100	79.0	128,191	1
—	—	—	—	—	—	—	—	—	2,320	100	77.9	6,161	2
3,173	11.9	78.6	30	0.1	80.9	—	—	—	26,596	100	78.5	26,652	3
1,494	24.4	79.8	1,137	18.5	79.4	—	—	—	6,132	100	79.0	6,168	4
2,211	31.9	79.3	655	9.5	78.8	45	0.6	77.7	6,928	100	78.2	6,966	5
1,462	28.6	76.9	157	3.1	77.5	—	—	—	5,101	100	78.0	5,124	6
512	13.3	76.4	317	8.2	76.9	—	—	—	3,847	100	77.5	3,866	7
83	3.1	78.2	117	4.4	76.7	—	—	—	2,667	100	78.0	2,684	8
561	26.0	76.4	128	6.0	77.0	—	—	—	2,154	100	77.8	2,163	9
15	0.9	79.1	281	17.4	76.2	254	15.8	76.3	1,611	100	77.3	1,611	10
—	—	—	617	41.0	76.3	203	13.5	76.9	1,505	100	77.0	1,505	11
76	4.5	76.9	439	26.1	76.9	125	7.4	76.1	1,682	100	77.1	1,684	12
176	14.9	78.5	246	20.7	76.9	—	—	—	1,187	100	78.3	1,191	13
391	31.8	76.6	127	10.4	76.9	18	1.5	78.7	1,228	100	75.9	1,230	14
90	5.2	78.6	213	12.2	78.0	5	0.3	77.0	1,739	100	74.0	1,740	15
74	6.6	77.4	58	5.2	76.4	221	19.8	78.2	1,116	100	75.3	1,118	16
115	12.2	82.1	25	2.6	77.9	9	1.0	75.6	944	100	73.1	947	17
11,759	6.2	78.6	4,548	2.4	77.8	890	0.5	76.9	189,020	100	78.6	199,001	
1,993	2.0	68.1	—	—	—	77	—	64.7	^{b)} 101,723	100	67.7	108,883	1
—	—	—	—	—	—	—	—	—	2,088	100	66.6	8,289	2
4,558	8.1	67.8	72	0.1	68.4	—	—	—	56,516	100	67.8	56,806	3
1,664	9.3	67.6	1,005	5.6	69.0	—	—	—	17,876	100	67.5	18,061	4
2,198	12.7	67.4	1,212	7.0	68.2	462	2.7	68.5	17,296	100	66.6	17,474	5
2,768	13.6	67.9	2,304	11.4	67.6	—	—	—	20,312	100	67.9	20,520	6
1,709	8.2	66.8	1,891	9.0	67.7	—	—	—	20,964	100	67.3	21,197	7
654	2.7	66.9	2,616	10.6	66.8	98	0.4	66.6	24,675	100	67.1	24,986	8
3,021	11.8	66.0	1,227	4.8	66.4	—	—	—	25,608	100	66.5	25,878	9
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	10
23	0.1	65.0	5,064	19.9	65.9	5,615	22.0	66.8	25,502	100	66.9	25,700	11
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	12
2,625	10.2	65.6	2,102	8.2	64.6	—	—	—	25,687	100	66.3	25,837	13
4,730	18.0	66.8	401	1.5	65.1	412	1.6	64.5	26,271	100	66.6	26,415	14
3,174	11.6	66.9	3,174	11.6	64.9	373	1.4	65.2	27,299	100	66.8	27,374	15
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	16
645	3.5	66.7	346	1.8	64.8	1,373	7.3	65.7	18,636	100	66.2	18,668	17
33,484	6.9	66.9	29,226	6.0	66.1	16,881	3.5	66.5	486,986	100	67.1	503,037	
28	0.2	40.3	—	—	—	—	—	—	^{a)} 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	28,626	100	40.7	31,111	

length not stated.

Table j.—Number of whales killed during the seasons 1931/32—1962/63.

— 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	147,276	30.2	1,536	5.4	17,804	22.6	205,052	26.2
III.....	76,936	40.7	185,034	38.0	7,879	27.5	28,560	36.2	298,409	38.1
IV.....	56,451	29.9	75,085	15.4	12,457	43.5	17,219	21.8	161,212	20.6
V.....	11,759	6.2	33,484	6.9	4,060	14.2	10,817	13.7	60,120	7.7
VI.....	4,548	2.4	29,226	6.0	1,238	4.3	2,284	2.9	37,296	4.7
I.....	890	0.5	16,881	3.5	1,456	5.1	2,197	2.8	21,424	2.7
Total.....	189,020	100.0	486,986	100.0	28,626	100.0	78,881	100.0	783,513	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	18.8	76,936	25.8	56,451	35.0	11,759	19.6	4,548	12.2	890	4.2	189,020	24.1
Fin.....	147,276	71.8	185,034	62.0	75,085	46.6	33,484	55.7	29,226	78.4	16,881	78.8	486,986	62.1
Humpback	1,536	0.7	7,879	2.6	12,457	7.7	4,060	6.7	1,238	3.3	1,456	6.8	28,626	3.7
Sperm....	17,804	8.7	28,560	9.6	17,219	10.7	10,817	18.0	2,284	6.1	2,197	10.2	78,881	10.1
Total....	205,052	100.0	298,409	100.0	161,212	100.0	60,120	100.0	37,296	100.0	21,424	100.0	783,513	100.0

In the season 1962–63 the largest number of blue-whales were killed in Area III, viz. 741 animals or 78.5 per cent of the total blue-whale catch. Next comes Area V with a catch of 115 blue-whales or 12.2 per cent.

The largest fin-whale catch in 1962–63 was obtained in Area III and II, where 8,977 animals (48.2 per cent) and 5,570 animals (29.9 per cent) were killed, respectively.

Of humpbacks 188 or 69.6 per cent of the total humpback catch were taken in Area V. Next comes Area I and Area III with a catch of 49 and 32 humpbacks, respectively.

The total number of sei- and sperm-whales killed in the season 1962–63 was as follows:

Area	Sei-whales caught in 1962–63		Sperm-whales caught in 1962–63	
	Number	Per cent	Number	Per cent
II.....	1,812	33.1	1,639	34.5
III.....	1,457	26.6	1,219	25.6
IV.....	631	11.5	797	16.7
V.....	430	7.8	732	15.4
VI.....	345	6.3	113	2.4
I.....	807	14.7	257	5.4
Total.....	5,482	100.0	4,757	100.0

Table k.—Average size of whales killed in the Antarctic, by whaling grounds and species of whales 1951/52—1962/63.

Whaling grounds and species of whales.	1951-52	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63
	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.
Pelagic whaling.												
<i>Blue-whales.</i>												
Males	76.4	75.8	76.0	75.7	75.6	75.8	75.4	76.0	74.5	72.8	73.8	72.9
Females	79.5	79.1	79.6	79.5	78.9	78.4	79.0	80.2	77.0	75.2	76.7	73.3
Total animals	78.0	77.5	78.0	77.8	77.3	77.0	77.1	78.3	75.9	74.0	75.3	73.1
<i>Fin-whales.</i>												
Males	66.4	65.7	65.6	65.1	65.1	65.3	64.7	64.8	65.0	65.1	64.4	64.1
Females	69.4	68.8	68.7	68.0	68.1	68.6	67.7	67.8	68.1	68.4	68.2	67.8
Total animals	67.9	67.3	67.1	66.5	66.5	66.9	66.2	66.3	66.6	66.8	66.5	66.2
<i>Humpbacks.</i>												
Males	39.3	39.5	39.6	39.9	39.0	40.7	40.8	39.2	39.8	40.6	40.4	39.9
Females	41.4	42.0	41.1	41.8	40.7	42.1	42.1	40.7	41.8	42.2	41.9	42.7
Total animals	40.4	40.9	40.3	41.1	40.0	41.4	41.5	40.0	40.9	41.4	41.4	41.6
<i>Sei-whales.</i>												
Males	49.9	49.6	47.0	44.9	48.5	48.7	48.3	48.8	48.7	48.6	48.7	48.4
Females	51.9	52.3	50.8	47.9	51.3	51.3	51.3	51.4	51.3	51.4	51.3	50.9
Total animals	51.0	51.6	49.2	46.5	50.4	50.4	50.3	50.8	50.5	50.2	50.3	49.8
<i>Sperm-whales.</i>												
Males	49.9	49.9	49.2	48.9	48.4	48.7	47.5	47.2	47.3	46.8	46.3	46.5
Females	—	—	—	—	—	—	36.5	—	39.0	—	41.0	38.6
Total animals	49.9	49.9	49.2	48.9	48.4	48.7	47.5	47.2	47.3	46.8	46.3	46.4
South Georgia.												
<i>Blue-whales, total</i> ...	72.0	74.0	73.3	73.0	81.3	71.7	74.5	64.0	73.0	72.8	—	—
<i>Fin-whales, total</i> ...	66.0	65.4	64.0	64.8	65.0	63.8	66.1	65.9	66.4	64.0	62.9	—
<i>Humpbacks, total</i> ...	39.8	40.1	39.4	40.0	—	—	—	—	—	—	—	—
<i>Sei-whales, total</i> ...	50.5	50.1	49.3	50.0	50.0	49.5	50.1	49.8	49.5	49.3	48.6	—
<i>Sperm-whales, total</i> ..	48.1	46.7	47.0	48.7	46.8	45.7	47.1	46.5	47.6	46.9	46.7	—

Table j, page 24, contains a summary of the number of whales killed by species in each area during the period 1931/32–1962/63. Of a total catch of 189,020 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 486,986 animals 38.0 per cent have been taken in Area III and 30.2 per cent in Area II. During the same period the total catch of humpbacks amounted to 28,626 animals, of which 43.5 per cent were taken in Area IV and 27.5 per cent in Area III.

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 1951/52–1962/63.

The average size of the blue-whales killed in 1962–63 was 73.1 feet, which is a decline of 2.2 feet compared with the previous season. The average size of the other species was largely the same as in the nearest preceding seasons.

Table I.—Average size of whales killed, by species and sex 1951/52—1962/63, excl. of blue-whales less than 70', fin-whales less than 60' and humpbacks less than 35'. Antarctic, pelagic whaling.

Species of whales.	1951 -52	1952 -53	1953 -54	1954 -55	1955 -56	1956 -57	1957 -58	1958 -59	1959 -60	1960 -61	1961 -62	1962 -63
<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	77.1	76.3	76.4	76.1	76.1	76.3	75.8	76.3	74.9	73.1	74.1	72.9
Females	80.1	79.5	80.1	80.0	79.4	79.0	79.4	80.6	77.5	75.5	76.9	73.6
Total animals.	78.6	78.0	78.5	78.2	77.9	77.5	77.6	78.7	76.3	74.3	75.7	73.2
<i>Fin-whales.</i>												
Males	66.7	66.0	65.9	65.9	65.2	66.2	65.8	65.9	66.1	66.2	66.0	65.8
Females	69.7	69.1	69.0	68.9	68.3	69.6	69.0	69.0	69.3	69.5	69.8	69.4
Total animals.	68.1	67.6	67.4	67.4	66.7	67.9	67.5	67.4	67.8	67.9	68.1	67.9
<i>Humpbacks.</i>												
Males	39.6	39.7	39.7	40.0	39.1	40.8	40.9	39.2	39.9	40.6	40.4	40.1
Females	41.7	42.2	41.3	41.9	40.8	42.3	42.3	40.9	41.9	42.3	42.0	42.7
Total animals.	40.7	41.1	40.5	41.1	40.1	41.6	41.6	40.1	41.1	41.4	41.4	41.6

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*, above has been prepared. The average size of blue-whales killed (of 70 feet and over) fell from 75.7 feet in 1961–62 to 73.2 feet in 1962–63. The average size of fin-whales killed (of 60 feet and over) and of humpbacks killed (of 35 feet and over) was approximately the same as in the previous seasons, viz. about 68.0 and 41.5 feet.

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	

The highest average size of blue-whales killed in the season 1962–63 was in Areas II and V with 83.8 and 82.1 feet, respectively. In Area III, where 741 blue-whales were caught or 78.5 per cent of the total blue-whale catch, the average size was 71.2 feet or only 1.2 feet over the stipulated mini-

mum size. The average size of fin-whales killed in 1962–63 varied from 67.0 feet (Area II) to 64.8 feet (Area VI).

Season	Average size of fin-whales killed, in Engl. feet.						
	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

In the season 1962–63 the pelagic expeditions caught 15 blue-whales, 128 fin-whales, 2 humpbacks and 42 sperm-whales which were below the minimum size. The corresponding figures in 1961–62 were 34 blue-whales, 305 fin-whales, 2 humpbacks, 2 sei-whales and 5 sperm-whales.

Mature and immature whales.

Table *m*, page 28, 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	—, —

From table *m*, it will appear that 80.4 per cent of all blue-whales killed in 1962–63 were immature as compared with 58.9 and 71.7 per cent in the two preceding seasons. Of the fin-whales killed in 1962–63 35.0 per cent were immature against 31.9 and 27.7 per cent in 1961–62 and 1960–61. Of the humpbacks killed during the last season 37.4 per cent were immature.

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

From the survey on top of page 30 it will be seen that the average result per catcher day in the last season was only 0.50 blue-whale units, as compared with 0.51, 0.68, 0.73 and 0.94 units in the four preceding seasons.

Table m.—Antarctic, pelagic whaling. Catch of immature and mature whales 1953/54—1962/63.

	1953—54.		1954—55.		1955—56.		1956—57.		1957—58.		1958—59.		1959—60.		1960—61.		1961—62.		1962—63.	
	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	409	33.5	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
females . . .	564	39.0	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 . . .	973	36.5	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	811	66.5	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
females . . .	883	61.0	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 . . .	1,694	63.5	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	2,593	20.4	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
females . . .	2,802	23.4	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
animals . . .	5,395	21.9	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
Mature																				
males	10,106	79.6	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
females . . .	9,174	76.6	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
animals . . .	19,280	78.1	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
Humpbacks.																				
Immature																				
males	159	52.1	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 . . .	132	45.8	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 . . .	291	49.1	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	146	47.9	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 . . .	156	54.2	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
animals . . .	302	50.9	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

Table n.—Antarctic, pelagic whaling results for the various countries 1951/52—1962/63.

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	
1951-52	32,575	2,334,805	268	14,763	1,088,085	132	5,961	446,262	45	2,494	185,962	16
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	-	-	-

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	
1951-52	3,831	259,476	32	1,408	97,073	16	1,650	110,300	12	2,468	147,647	15
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

¹⁾ Barrel = 170 kg. (Barrel = abt. 1/2 long ton. 1 long ton = 1,016 kg.)

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

Table *n*, page 29, gives a survey of the pelagic whaling results of the individual participating countries as from 1951-52 regarding the number of whales killed, oil production and number of catchers employed in each season.

South Georgia.

Tables o, p, q and r (pages 31-34) deal with the catch from South Georgia. As previously mentioned no whaling operations were carried on from South Georgia during the season 1962-63. Whaling has otherwise been carried on from South Georgia ever since the Antarctic whaling commenced in 1904-05 and until 1961-62.

Oil production by participating countries.

In table s, pages 35 and 36, the total whaling results in the Antarctic during the seasons 1948/49-1962/63 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				
	1958/59 Per cent	1959/60 Per cent	1960/61 Per cent	1961/62 Per cent	1962/63 Per cent
Norway	38.4	31.7	33.3	27.7	15.0
United Kingdom	13.6	13.4	13.7	10.4	5.3
Japan	30.0	28.7	29.9	35.9	47.9
U.S.S.R.	10.3	17.6	16.8	21.6	26.5
Netherlands	5.9	6.7	6.3	4.4	5.3
Argentina	1.8	1.9	—	—	—
Total	100.0	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 1925-26 has been recorded in table u, page 38. For the pelagic expeditions the average output was 114.6 barrels in 1962-63 against 118.1 and

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.	Floating factories.	Catchers.	
1919-20	987	1,673	79	71	8	1) 14	2,832	Barrels. 147,029	6	—	26	109
1920-21	856	2,643	103	36	31	1) 13	3,682	177,137	5	—	21	175
1921-22	2,570	710	9	103	3	—	3,395	249,042	5	—	20	170
1922-23	3,569	1,445	320	10	19	—	5,363	347,553	5	1	23	233
1923-24	1,927	1,378	130	191	49	—	3,675	247,463	5	1	23	160
1924-25	3,512	2,019	262	1	24	—	5,818	406,176	5	1	24	242
1925-26	1,855	5,709	236	13	12	—	7,825	404,457	5	1	23	340
1926-27	3,689	1,144	—	365	17	—	5,215	417,292	5	1	23	227
1927-28	2,125	1,357	—	95	60	—	3,637	303,480	5	1	23	158
1928-29	1,560	3,130	15	396	31	—	5,132	348,629	5	1	23	223
1929-30	488	3,396	46	216	39	1) 1	4,186	247,963	5	—	27	155
1930-31	1,085	1,416	66	144	24	1) 1	2,736	187,938	5	—	27	101
1931-32	438	1,735	6	16	10	—	2,205	122,205	2	—	12	184
1932-33	267	727	—	2	—	—	996	54,583	1	—	6	166
1933-34	536	1,728	92	—	7	—	2,363	132,187	2	—	12	197
1934-35	556	836	37	125	21	—	1,575	108,141	2	—	10	158
1935-36	1,221	520	41	—	3	—	1,785	143,185	2	—	10	179
1936-37	121	1,079	17	471	70	—	1,758	81,629	2	—	12	147
1937-38	97	1,552	40	155	43	—	1,887	90,266	2	—	12	157
1938-39	232	1,307	—	19	117	—	1,675	111,490	2	—	11	152
1939-40	88	937	—	80	85	1) 1	1,191	64,782	2	—	12	99
1940-41	7	747	—	88	26	—	868	44,498	1	—	5	174
1941-42	59	1,189	16	52	109	—	1,425	77,819	2	—	12	119
1942-43	125	776	—	73	24	—	998	50,960	1	—	6	166
1943-44	28	632	4	197	101	—	962	50,001	1	—	7	137
1944-45	128	987	60	76	45	—	1,296	75,540	1	—	7	185
1945-46	80	1,456	238	82	57	—	1,913	78,877	3	—	16	120
1946-47	327	1,670	28	391	133	2) 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	—	—	—	—	—	—	—	—	—	—	—	—

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."

Table r.—South Georgia. Catch of immature and mature whales 1953/54—1962/63.

	1953—54.		1954—55.		1955—56.		1956—57.		1957—58.		1958—59.		1959—60.		1960—61.		1961—62.		1962—63.	
	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	33.3	4	66.7	1	100.0	5	100.0	4	100.0	1	100.0	3	100.0	1	100.0	—	—	—	—
females	8	80.0	7	100.0	—	—	1	50.0	1	50.0	—	—	4	66.7	2	66.7	—	—	—	—
animals	9	69.2	11	84.6	1	33.3	6	85.7	5	83.3	1	100.0	7	77.8	3	75.0	—	—	—	—
Mature																				
males	2	66.7	2	33.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
females	2	20.0	—	—	2	100.0	1	50.0	1	50.0	—	—	2	33.3	1	33.3	—	—	—	—
animals	4	30.8	2	15.4	2	66.7	1	14.3	1	16.7	—	—	2	22.2	1	25.0	—	—	—	—
Fin-whales.																				
Immature																				
males	660	52.5	584	47.6	515	41.9	489	51.7	366	38.4	228	39.9	159	35.7	322	48.5	179	59.5	—	—
females	747	54.9	605	42.0	583	41.9	537	50.3	402	31.9	222	31.5	226	32.4	347	50.0	207	58.3	—	—
animals	1,407	53.8	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	—	—
Mature																				
males	597	47.5	643	52.4	715	58.1	457	48.3	588	61.6	341	60.1	286	64.3	342	51.5	122	40.5	—	—
females	613	45.1	837	58.0	808	58.1	530	49.7	859	68.1	482	68.5	472	67.6	347	50.0	148	41.7	—	—
animals	1,210	46.2	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	—	—

Table s.—Antarctic whaling results for the various countries 1948/49—1962/63.

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.
1948-49.....	31,435	2,219,621	16,196	1,108,027	7,596	595,803	2,608	160,728	1,643	119,361
1949-50.....	32,396	2,166,489	16,799	1,106,487	7,786	518,417	1,882	145,298	2,114	168,754
1950-51.....	33,997	2,303,690	16,844	1,116,284	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	²⁾ 5,813	²⁾ 306,199	—	—	13,592	667,350
1961-62.....	38,555	2,051,776	9,304	568,768	²⁾ 4,324	²⁾ 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
<i>In per cent</i>	%	%	%	%	%	%	%	%	%	%
1948-49.....	100.0	100.0	51.5	49.9	24.2	26.9	8.3	7.2	5.2	5.4
1949-50.....	100.0	100.0	51.9	51.1	24.0	23.9	5.8	6.7	6.5	7.8
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

¹⁾, ²⁾ See notes on next page.

Table s (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.
1948-49	919	52,518	-	-	1,366	109,849	1,107	73,335
1949-50	946	41,348	-	-	1,295	82,792	1,574	103,393
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	155,269
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	39,430	-	-	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
<i>In per cent</i>	%	%	%	%	%	%	%	%
1948-49	2.9	2.4	-	-	4.4	4.9	3.5	3.3
1949-50	2.9	1.9	-	-	4.0	3.8	4.9	4.8
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

¹⁾ Barrel = 170 kg. (Barrel = abt. $\frac{1}{8}$ 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—1962/63.

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
<i>1958-59.</i>							
Norway	9,609	25	40	-	1,375	-	402
United Kingdom ..	16,656	-	23	138	3,887	2,153	717
Netherlands	3,507	-	12	-	-	-	41
U.S.S.R.	4,528	620	-	-	-	-	-
Japan	1,199	-	112	-	73,396	-	20,120
Argentina	5,785	-	-	-	-	-	-
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	-	-	-	²⁾ 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

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.

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
1925-26.....	84.0	84.8	1944-45.....	111.5	118.0
1926-27.....	96.4	91.1	1945-46.....	83.1	98.6
1927-28.....	106.4	92.8	1946-47.....	112.5	113.1
1928-29.....	108.2	98.3	1947-48.....	128.3	111.2
1929-30.....	110.7	109.6	1948-49.....	126.5	115.9
1930-31.....	100.1	105.6	1949-50.....	115.0	118.6
1931-32.....	92.9	102.6	1950-51.....	121.5	117.3
1932-33.....	86.5	114.6	1951-52.....	127.6	129.4
1933-34.....	91.8	111.9	1952-53.....	126.3	128.0
1934-35.....	105.1	102.2	1953-54.....	121.1	128.6
1935-36.....	95.5	101.6	1954-55.....	124.6	117.3
1936-37.....	104.5	111.7	1955-56.....	123.6	121.6
1937-38.....	95.7	111.1	1956-57.....	122.9	128.7
1938-39.....	117.6	107.1	1957-58.....	126.9	124.9
1939-40.....	106.1	117.2	1958-59.....	114.0	118.2
1940-41.....	109.1	105.8	1959-60.....	123.0	120.5
1941-42.....	110.1	—	1960-61.....	127.2	116.9
1942-43.....	95.2	—	1961-62.....	112.9	118.1
1943-44.....	120.2	142.9	1962-63.....	—	114.6

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. ¼ long ton. 1 long ton = 1,016 kg.)

116.9 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 1957-58:

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	
1957-58 ..	133.6	125.6	126.5	99.7	116.7	126.9	124.9
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

The highest yield in the season 1962-63 was in Area II with 131.0 barrels. Next comes Area V with 122.8 barrels and Area I with 114.4 barrels. In the other areas the yield varied between 103.2 and 106.1 barrels.

Table v, page 39, is recording the average weekly production per blue-whale unit for the pelagic expeditions during the seasons 1961-62 and 1962-63.

By-products.

In table t, page 37, detailed information is given on the production of by-products in the Antarctic during the post-war seasons. From and including the season 1958-59 the figures are distributed in respect to the indivi-

Table v.—Average weekly production of whale-oil per blue-whale unit in the pelagic whaling 1961–62 and 1962–63.

Season 1961—62.				Season 1962—63.			
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.
23/12 1961	153,788	1,478.0	104.1	22/12 1962	106,562	1,127.4	94.5
30/12 "	58,358	540.6	108.0	29/12 "	58,377	510.3	114.4
6/1 1962	84,986	795.3	106.9	5/1 1963	76,572	691.3	110.8
13/1 "	133,862	1,184.8	113.0	12/1 "	72,678	599.3	121.3
20/1 "	112,092	958.7	116.9	19/1 "	81,085	688.8	117.7
27/1 "	127,651	1,133.6	112.6	26/1 "	84,901	720.2	117.9
3/2 "	124,876	1,194.6	104.5	2/2 "	112,525	995.9	113.0
10/2 "	151,808	1,261.2	120.4	9/2 "	96,356	785.8	122.6
17/2 "	148,092	1,139.1	130.0	16/2 "	105,716	877.8	120.4
24/2 "	88,645	804.2	110.2	23/2 "	115,303	925.0	124.7
3/3 "	100,000	831.7	120.2	2/3 "	85,286	722.8	118.0
10/3 "	113,453	860.0	131.9	9/3 "	90,647	714.0	127.0
17/3 "	101,110	887.6	113.9	16/3 "	60,000	558.1	107.5
24/3 "	191,606	1,407.9	136.1	23/3 "	69,422	582.7	119.1
31/3 "	72,078	482.3	149.4	30/3 "	39,252	404.7	97.0
7/4 "	34,349	268.7	127.8	7/4 "	38,229	402.2	95.0
Total	1,796,754	15,228.3	118.0	Total	1,292,911	11,306.3	114.4

dual countries. In the last season the production of whale meat amounted to 163,688 tons compared with 178,670 tons in 1961–62. Of whale meal there was produced 35,503 tons in 1962–63 against 47,696 tons in the preceding season.

Whaling fleet crews.

From the survey below 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 employed on the freezing- and refrigeratorships operating in the Antarctic.

Nationalities	Number of men employed in the Antarctic whaling industry					
	Season 1960/61		Season 1961/62		Season 1962/63	
	Number	Per cent	Number	Per cent	Number	Per cent
Norwegian	5,377	27	4,557	23	2,045	12
British	780	4	559	3	264	2
Japanese	9,680	50	9,748	50	9,676	58
Russian ¹⁾	2,900	15	4,050	20	4,140	24
Others ²⁾	759	4	727	4	607	4
Total	19,496	100	19,641	100	16,732	100

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

TABLES

Antarctic season 1962/63, pelagic whaling.

Table No. 1.—Whaling results for the various countries in the Antarctic in the season 1962/63.

Countries. Geographical areas.	Species of whales caught.						Oil production.	Expeditions.		
	Blue.	Fin.	Hump- back.	Sci.	Sperm.	Total of whales.		Shore sta- tions.	Floa- ting fac- tories.	Catch- ers.
Japan:—							Barrels ¹⁾			
Antarctic, pelagic	727	10,475	7	1,094	1,314	13,617	716,838	—	7	79
U.S.S.R.:—										
Antarctic, pelagic	196	4,197	263	2,498	1,953	²⁾ 9,107	396,005	—	4	70
Norway:—										
Antarctic, pelagic	4	2,290	—	1,389	899	4,582	224,199	—	4	32
Netherlands:—										
Antarctic, pelagic	19	848	—	87	347	1,301	79,515	—	1	11
United Kingdom:—										
Antarctic, pelagic	1	858	—	435	258	1,552	79,222	—	1	9
Total	947	18,668	270	5,503	4,771	30,159	1,495,779	—	17	201

¹⁾ Barrel = 170 kg. (Barrel = abt. $\frac{1}{8}$ long ton, 1 long ton = 1,016 kg.) ²⁾ In addition 21 Minke-whales, 2 bottle-noses and 1 Killer-whale were caught.

Table No. 2.—Average size of whales caught in the Antarctic in the season 1962/63.

Geographical areas. Number of whales measured.	Company.	Average size.		
		Males.	Females.	Total animals.
		Engl. feet.	Engl. feet.	Engl. feet.
Blue-whales.				
<i>Antarctic, pelagic whaling</i>	No. 1	78.50	87.47	85.58
Males 465 } Total 944.	" 2	81.33	84.20	82.25
Females 479 }	" 3	78.38	80.67	79.36
	" 4	75.20	78.00	76.88
	" 5	72.50	84.00	76.33
	" 6	76.00	—	76.00
	" 7	75.00	73.52	74.21
	" 8	72.00	—	72.00
	" 9	70.94	72.10	71.48
	" 10	70.80	71.37	71.18
	" 11	70.48	71.66	71.16
	" 12	70.66	71.50	71.05
	" 13	70.31	71.15	70.78
	" 14	70.34	70.95	70.66
	" 15	70.92	71.07	71.00
Average		72.86	73.25	73.06

Table No. 2 (continued).

Geographical areas. Number of whales measured.	Company.	Average size.		
		Males.	Females.	Total animals.
		Engl. feet.	Engl. feet.	Engl. feet.
<u>Fin-whales.</u>				
<i>Antarctic, pelagic whaling</i>	No. 1	66.44	71.07	68.91
Males 8,300 } Total 18,636.	" 2	65.94	70.40	68.30
Females 10,336 }	" 3	66.10	69.48	67.74
	" 4	65.13	69.37	67.59
	" 5	66.51	68.60	67.48
	" 6	64.42	68.47	66.77
	" 7	64.95	68.14	66.69
	" 8	64.39	68.47	66.64
	" 9	63.24	68.14	66.16
	" 10	62.86	67.78	65.85
	" 11	62.88	67.71	65.67
	" 12	63.49	66.99	65.29
	" 13	63.54	66.97	65.18
	" 14	63.58	66.12	65.11
	" 15	63.48	65.52	64.55
	" 16	62.20	66.09	64.51
	" 17	62.02	64.32	63.14
Average		64.10	67.82	66.16
<u>Humpbacks.</u>				
<i>Antarctic, pelagic whaling</i>	No. 1	44.00	43.75	43.80
Males 108 } Total 270.	" 2	-	43.00	43.00
Females 162 }	" 3	39.05	43.27	41.58
	" 4	40.21	42.52	41.56
	" 5	38.67	42.31	41.00
Average		39.90	42.67	41.56
<u>Sei-whales.</u>				
<i>Antarctic, pelagic whaling</i>	No. 1	50.82	53.23	52.11
Males 2,396 } Total 5,482.	" 2	50.21	52.67	51.59
Females 3,086 }	" 3	48.66	51.57	50.36
	" 4	48.45	50.83	50.06
	" 5	48.16	50.83	49.84
	" 6	48.18	50.85	49.83
	" 7	48.21	51.91	49.80
	" 8	48.17	50.86	49.65
	" 9	48.57	50.10	49.32
	" 10	47.99	50.08	49.13
	" 11	47.69	50.11	48.88
	" 12	47.75	49.95	48.50
	" 13	47.36	48.90	48.15
	" 14	46.99	49.05	48.03
	" 15	46.70	48.26	47.44
	" 16	45.73	48.15	47.08
	" 17	45.83	47.81	46.94
Average		48.42	50.90	49.81

Table No. 2 (continued).

Geographical areas. Number of whales measured.	Company.	Average size.		
		Males.	Females.	Total animals.
		Engl. feet.	Engl. feet.	Engl. feet.
Sperm-whales.				
<i>Antarctic, pelagic whaling</i>	No. 1	49.98	—	49.98
Males 4,654	„ 2	48.51	—	48.51
Females 103 } Total 4,757.	„ 3	47.60	—	47.60
	„ 4	47.29	—	47.29
	„ 5	46.73	—	46.73
	„ 6	46.55	—	46.55
	„ 7	46.36	—	46.36
	„ 8	46.14	38.00	46.10
	„ 9	45.88	—	45.88
	„ 10	45.57	—	45.57
	„ 11	45.61	38.67	45.34
	„ 12	45.21	38.44	45.09
	„ 13	45.49	39.33	45.05
	„ 14	44.82	39.00	44.75
	„ 15	44.49	38.35	43.37
	„ 16	42.97	—	42.97
	„ 17	42.09	—	42.09
Average		46.53	38.57	46.36

Table No. 3.—Whales caught in the Antarctic in the season 1962/63, by species, sex and size.

Blue-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
57	—	1	1	85	8	5	13
62	—	1	1	86	7	7	14
66	—	1	1	87	3	4	7
67	4	5	9	88	2	8	10
69	1	2	3	89	3	4	7
70	208	197	405	90	1	5	6
71	92	88	180	91	—	6	6
72	35	44	79	92	—	2	2
73	16	30	46	93	—	1	1
74	11	19	30	94	—	2	2
75	8	9	17	95	—	1	1
76	8	6	14	96	—	1	1
77	8	6	14				
78	6	7	13	Sum	465	479	944
79	8	1	9				
80	7	2	9	Average size	{ Males: 72.86 feet		
81	10	2	12		{ Females: 73.25 „		
82	4	2	6		{ Total animals: 73.06 „		
83	8	6	14	Per cent	{ Males: 49.26		
84	7	4	11		{ Females: 50.74		

Table No. 3 (continued).

Fin-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
48	—	1	1	71	252	667	919
51	—	1	1	72	182	769	951
52	2	6	8	73	94	941	1,035
53	9	8	17	74	44	638	682
54	11	20	31	75	12	533	545
55	24	9	33	76	4	356	360
56	19	18	37	77	5	210	215
57	614	448	1,062	78	1	117	118
58	601	534	1,135	79	—	76	76
59	494	401	895	80	1	43	44
60	436	400	836	81	—	15	15
61	457	384	841	82	—	4	4
62	446	393	839	83	—	2	2
63	530	400	930	Sum	8,300	10,336	18,636
64	546	387	933	Average size	Males: 64.10 feet		
65	558	318	876		Females: 67.82 „		
66	712	331	1,043		Total animals: 66.16 „		
67	726	393	1,119	Per cent	Males: 44.54		
68	623	392	1,015		Females: 55.46		
69	492	482	974				
70	405	639	1,044				

Humpbacks.

29	1	—	1	48	—	5	5
34	1	—	1	49	—	4	4
35	1	4	5	50	—	5	5
36	5	3	8	51	1	—	1
37	12	8	20	52	—	2	2
38	14	9	23	53	—	1	1
39	23	14	37	65	—	1	1
40	12	6	18	Sum	108	162	270
41	9	27	36	Average size	Males: 39.90 feet		
42	14	15	29		Females: 42.67 „		
43	4	13	17		Total animals: 41.56 „		
44	3	15	18	Per cent	Males: 40.00		
45	5	13	18		Females: 60.00		
46	—	7	7				
47	3	10	13				

Sei-whales.

40	14	21	35	53	59	339	398
41	19	15	34	54	29	290	319
42	25	18	43	55	9	157	166
43	48	29	77	56	1	100	101
44	57	45	102	57	—	36	36
45	122	59	181	58	1	4	5
46	208	62	270	Sum	2,396	3,086	5,482
47	289	129	418	Average size	Males: 48.42 feet		
48	391	191	582		Females: 50.90 „		
49	390	268	658		Total animals: 49.81 „		
50	354	370	724	Per cent	Males: 43.71		
51	238	430	668		Females: 56.29		
52	142	523	665				

Table No. 3 (continued).

Sperm-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
35	3	—	3	52	208	—	208
36	1	—	1	53	120	—	120
37	1	1	2	54	72	—	72
38	107	68	175	55	33	—	33
39	133	23	156	56	13	—	13
40	124	4	128	57	5	—	5
41	174	3	177	58	1	—	1
42	176	2	178	60	1	—	1
43	295	1	296	Sum	4,654	103	4,757
44	319	—	319	Average size		{ Males: 46.53 feet	
45	413	1	414			{ Females: 38.57 "	
46	422	—	422			{ Total animals: 46.36 "	
47	519	—	519	Per cent		{ Males: 97.83	
48	504	—	504			{ Females: 2.17	
49	424	—	424				
50	344	—	344				
51	242	—	242				

Table No. 4.—Whales caught in the Antarctic in the season 1962/63, by species, sex and groups of size.

Blue-whales.

	Number of whales.	Per cent.
Group 1. (70 feet and less)	420	44.49
" 2. (71 feet to and incl. 85 feet)	467	49.47
" 3. (above 85 feet)	57	6.04
	944	100.00
Immature males	356	76.56
" females	403	84.13
" animals	759	80.40
Mature males	109	23.44
" females	76	15.87
" animals	185	19.60

Fin-whales.

	Number of whales.	Per cent.
Group 1. (55 feet and less)	91	0.49
" 2. (56 feet to and incl. 65 feet)	8,384	44.99
" 3. (above 65 feet)	10,161	54.52
	18,636	100.00
Immature males	3,113	37.51
" females	3,410	32.99
" animals	6,523	35.00
Mature males	5,187	62.49
" females	6,926	67.01
" animals	12,113	65.00

Table No. 4 (continued).

		Humpbacks.	
		Number of whales.	Per cent.
Immature males		57	52.78
„ females		44	27.16
„ animals		101	37.41
Mature males		51	47.22
„ females		118	72.84
„ animals		169	62.59

Table No. 5.—Average production of oil per blue-whale unit in the Antarctic in the season 1962/63.

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.	Company.	Blue-whale units. ¹⁾	Oil production.	
			Total.	Average per blue-whale unit.
<i>Antarctic, pelagic whaling</i>	No. 1	507.7	72,284	142.4
	„ 2	376.5	52,401	139.2
	„ 3	454.8	62,916	138.3
	„ 4	499.5	66,891	133.9
	„ 5	139.8	18,077	129.3
	„ 6	919.0	112,099	122.0
	„ 7	950.0	115,764	121.9
	„ 8	349.0	42,070	120.5
	„ 9	1,054.8	120,665	114.4
	„ 10	883.5	98,441	111.4
	„ 11	761.5	82,794	108.7
	„ 12	668.0	72,424	108.4
	„ 13	704.3	74,669	106.0
	„ 14	942.8	96,882	102.8
	„ 15	521.0	53,325	102.4
	„ 16	718.8	72,365	100.7
	„ 17	832.5	79,424	95.4
Total		11,283.5	1,293,491	114.6

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

Table No. 6.—Size of pregnant whale females caught in the Antarctic in the season 1962/63.

Blue-whale females.

Length of mothers.	Number of pregnant animals.	Length of mothers.	Number of pregnant animals.	
Engl. feet.		Engl. feet.		
70	12	85	2	Number of foetuses measured 80 Total number of blue-whale females measured 479, of which pregnant animals 80, or 16.70 per cent. Total number of mature blue-whale females (above 76 feet) measured 76, of which pregnant animals 34, or 44.74 per cent.
71	15	86	4	
72	7	88	5	
73	5	89	3	
74	2	90	3	
75	3	91	3	
76	2	92	1	
77	1	93	1	
79	1	94	1	
82	1	96	1	
83	4			
84	3			
		Total	80	

Table No. 6 (continued).

Fin-whale females.

Length of mothers.	Number of pregnant animals.	Length of mothers.	Number of pregnant animals.	Number of foetuses measured 4,001 of which twin pairs 45 » » triplets 6 Total number of fin-whale females measured 10,336, of which pregnant animals 3,944, or 38.16 per cent. Total number of mature fin-whale females (above 64 feet) measured 6,926, of which pregnant animals 3,814, or 55.07 per cent.
Engl. feet.		Engl. feet.		
54	1	72	463	
59	2	73	569	
60	4	74	393	
61	12	75	315	
62	20	76	227	
63	44	77	142	
64	47	78	75	
65	84	79	50	
66	124	80	23	
67	180	81	7	
68	183	82	3	
69	253	83	2	
70	354			
71	367			
		Total	3,944	

Humpback females.

Length of mothers.	Number of pregnant animals.	Length of mothers.	Number of pregnant animals.	Number of foetuses measured 72 of which twin pairs 1 Total number of humpback females measured 162, of which pregnant animals 71, or 43.83 per cent. Total number of mature humpback females (above 40 feet) measured 118, of which pregnant animals 62, or 52.54 per cent.
Engl. feet.		Engl. feet.		
36	1	45	8	
37	1	46	6	
38	1	47	5	
39	2	48	2	
40	4	49	4	
41	12	50	3	
42	5	52	1	
43	6	53	1	
44	9			
		Total	71	

Sei-whale females.

Length of mothers.	Number of pregnant animals.	Length of mothers.	Number of pregnant animals.	Number of foetuses measured 1,616 of which twin pairs 19 » » triplets 2
Engl. feet.		Engl. feet.		
43	1	52	301	
44	1	53	209	
45	7	54	179	
46	13	55	84	
47	38	56	68	
48	91	57	19	
49	131	58	3	
50	198			
51	250			
		Total	1,593	

Sperm-whale females.

Length of mothers.	Number of pregnant animals.	Number of foetuses measured 23.
Engl. feet.		
38	19	
39	2	
40	2	
Total	23	

Table No. 7.—Whale fetuses measured in the Antarctic in the season 1962/63, by species and groups of size, in each month.

Blue-whale fetuses.

Groups of size. Engl. feet.	February	March	April	Total
0'— 0' 11"	—	1	—	1
1'— 1' 11"	1	—	—	1
5'— 5' 11"	1	—	—	1
6'— 6' 11"	1	—	—	1
7'— 7' 11"	3	1	—	4
8'— 8' 11"	4	2	—	6
9'— 9' 11"	2	—	—	2
10'—10' 11"	4	1	—	5
11'—11' 11"	1	—	—	1
12'—12' 11"	3	2	—	5
13'—13' 11"	3	5	—	8
14'—14' 11"	7	4	—	11
15'—15' 11"	3	7	1	11
16'—16' 11"	3	4	—	7
17'—17' 11"	1	5	1	7
18'—18' 11"	—	4	—	4
19'—19' 11"	—	3	1	4
20'—20' 11"	—	1	—	1
Total blue-whale fetuses	37	40	3	80
Average size of fetuses	11' 8"	14' 10"	14' 5"	13' 6"

Fin-whale fetuses.

Groups of size. Engl. feet.	Dec.	Jan.	Febr.	March	April	Total
0'— 0' 11"	38	33	10	2	—	83
1'— 1' 11"	41	76	25	6	—	148
2'— 2' 11"	80	116	57	8	—	261
3'— 3' 11"	97	137	87	22	1	344
4'— 4' 11"	96	170	91	34	—	391
5'— 5' 11"	91	140	97	35	1	364
6'— 6' 11"	112	164	103	41	—	420
7'— 7' 11"	63	147	103	30	1	344
8'— 8' 11"	48	134	116	34	3	335
9'— 9' 11"	21	106	109	39	1	276
10'—10' 11"	12	82	123	49	2	268
11'—11' 11"	3	48	93	42	6	192
12'—12' 11"	1	41	102	33	1	178
13'—13' 11"	1	15	76	56	1	149
14'—14' 11"	2	9	46	41	—	98
15'—15' 11"	1	—	25	33	3	62
16'—16' 11"	—	1	17	20	2	40
17'—17' 11"	—	—	3	16	3	22
18'—18' 11"	—	1	1	6	4	12
19'—19' 11"	—	—	1	3	2	6
20'—20' 11"	—	—	1	1	4	6
21'—21' 11"	—	—	—	1	—	1
22'—22' 11"	—	—	—	—	1	1
Total fin-whale fetuses	707	1,420	1,286	552	36	4,001
Average size of fetuses	4' 11"	6' 3"	8' 5"	10' 3"	13' 10"	7' 4"

Table No. 7 (continued).

Humpback foetuses.

Groups of size. Engl. feet.	Jan.	
0'—0' 11"	2	Total humpback foetuses . 72 Average size of foetuses .. 2' 1"
1'—1' 11"	30	
2'—2' 11"	34	
3'—3' 11"	4	
4'—4' 11"	2	

Sei-whale foetuses.

Groups of size. Engl. feet	Dec.	Jan.	Febr.	March.	April.	Total.
0'—0' 11"	3	—	—	—	—	3
1'—1' 11"	4	5	1	—	—	10
2'—2' 11"	8	4	3	—	—	15
3'—3' 11"	30	18	9	8	—	65
4'—4' 11"	36	28	28	8	—	100
5'—5' 11"	14	32	46	20	—	112
6'—6' 11"	4	35	87	28	6	160
7'—7' 11"	—	46	94	44	4	188
8'—8' 11"	—	27	105	63	8	203
9'—9' 11"	—	4	132	87	4	227
10'—10' 11"	—	6	100	94	15	215
11'—11' 11"	—	1	48	74	11	134
12'—12' 11"	—	1	25	80	13	119
13'—13' 11"	—	—	6	27	7	40
14'—14' 11"	—	—	7	10	1	18
15'—15' 11"	—	—	2	2	1	5
16'—16' 11"	—	—	1	—	—	1
17'—17' 11"	—	—	—	—	—	—
18'—18' 11"	1	—	—	—	—	1
Total sei-whale foetuses	100	207	694	545	70	1,616
Average size of foetuses	4' 1"	6' 2"	8' 5"	9' 9"	10' 6"	8' 5"

Sperm-whale foetuses.

Groups of size. Engl. feet	Oct.	Nov.	Dec.	March	April	Total.
0'—0' 11"	—	—	1	—	—	1
1'—1' 11"	—	—	—	—	—	—
2'—2' 11"	—	—	—	—	3	3
3'—3' 11"	—	—	—	1	1	2
4'—4' 11"	—	—	—	—	—	—
5'—5' 11"	—	—	—	—	—	—
6'—6' 11"	1	—	—	—	—	1
7'—7' 11"	3	—	—	—	—	3
8'—8' 11"	—	—	—	—	—	—
9'—9' 11"	2	—	—	—	—	2
10'—10' 11"	3	—	—	—	—	3
11'—11' 11"	1	—	—	—	—	1
12'—12' 11"	4	—	—	—	—	4
13'—13' 11"	—	1	—	—	—	1
14'—14' 11"	—	1	—	—	—	1
15'—15' 11"	—	1	—	—	—	1
Total sperm-whale foetuses	14	3	1	1	4	23
Average size of foetuses	10' 1"	14' 4"	0' 9"	3' 0"	2' 9"	8' 8"

Table No. 8.—Whale fetuses measured in the Antarctic in the season 1962/63, by species and sex, in each month.

Kind of fetuses. Months.	Number of		Sex not stated.	Total fetuses.	Number of males per 100 females.
	males.	females.			
Blue-whale fetuses.					
February	20	17	—	37	117.65
March	22	18	—	40	122.22
April	1	2	—	3	50.00
Total	43	37	—	80	116.22
Fin-whale fetuses.					
December	365	339	3	707	107.67
January	700	717	3	1,420	97.63
February	655	629	2	1,286	104.13
March	271	281	—	552	96.44
April	20	16	—	36	125.00
Total	2,011	1,982	8	4,001	101.46
Humpback fetuses.					
January	42	30	—	72	140.00
Total	42	30	—	72	140.00
Sei-whale fetuses.					
December	51	49	—	100	104.08
January	114	93	—	207	122.58
February	335	359	—	694	93.31
March	263	282	—	545	93.26
April	33	37	—	70	89.19
Total	796	820	—	1,616	97.07
Sperm-whale fetuses.					
October	8	6	—	14	133.33
November	3	—	—	3	—
December	—	1	—	1	—
March	1	—	—	1	—
April	1	3	—	4	33.33
Total	13	10	—	23	130.00

