

INTERNATIONAL  
WHALING STATISTICS

XXXVI

EDITED BY

THE COMMITTEE FOR WHALING STATISTICS



OSLO 1956

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## PREFACE

The present publication, International Whaling Statistics No. XXXVI, embraces the results of the Antarctic whaling during the season 1954–55.

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

Previous publications of International Whaling Statistics contained a table recording the size and sex of each whale foetus measured during the individual season concerned. This table has been omitted in the present publication, as these data – in the opinion of the Committee – are considered to be of minor importance.

Oslo, May 1956.

*Gunnar Jahn.*

*Birger Bergersen.*

*Einar Vangstein.*



## INTRODUCTION

During the Antarctic season 1954-55 8 countries carried on whaling with 19 floating factories, 3 shore stations and a total of 254 catchers. The whaling matériel employed in 1954-55 belonged to the participating countries as follows:—

Norway . . . . .	9	floating factories,	1	shore station,	108	catchers
United Kingdom . . . . .	3	"	"	1	"	"
Japan . . . . .	3	"	"		36	"
Union of South Africa	1	"	"		13	"
The Netherlands . . . . .	1	"	"		12	"
Panama . . . . .	1	"	"		16	"
U.S.S.R. . . . .	1	"	"		15	"
Argentina . . . . .				1	7	"

During the previous season 1953-54 17 floating factories, 3 shore stations and 227 catchers were operating. The floating factory "Olympic Challenger" which did not participate during the season 1953-54, resumed whaling in 1954-55. In addition, Japanese companies sent out 3 floating factories as against 2 during the preceding seasons.

All the countries participating in the Antarctic pelagic whaling season 1954-55 have ratified the International Whaling Convention. At the meeting of the International Whaling Commission in Tokyo in 1954 a number of alterations were made in the Schedule of the Convention. The most important regulations concerning pelagic whaling during the Antarctic season 1954-55 were:

1. The open season for the taking of fin- and sei-whales was from January 7th.
2. The open season for the taking of blue-whales was from January 21st.
3. The open season for humpback whales was February 1st, 2nd, 3rd, and 4th.
4. The season was open for the taking of baleen whales until the agreed quota of blue-whale units was reached, but not longer than to April 7th included.
5. The number of baleen whales taken during the open season in any waters south of 40° South Latitude by whale catchers attached to factory ships was not to exceed 15,500 blue-whale units. (As one blue-



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

Season 1952—53.		Season 1953—54.		Season 1954—55.	
Week ending	Number of blue-whale units	Week ending	Number of blue-whale units	Week ending	Number of blue-whale units
3/1 1953	542.0	2/1 1954	305.0	—	—
10/1 "	1,938.0	9/1 "	1,729.0	8/1 1955	742.0
17/1 "	1,659.5	16/1 "	1,469.0	15/1 "	1,290.0
24/1 "	1,412.5	23/1 "	1,477.0	22/1 "	2,109.0
31/1 "	1,664.5	30/1 "	1,240.0	29/1 "	1,665.0
7/2 "	1,368.8	6/2 "	1,545.0	5/2 "	1,524.0
14/2 "	1,533.5	13/2 "	1,181.0	12/2 "	1,358.0
21/2 "	1,335.9	20/2 "	1,545.0	19/2 "	1,583.0
28/2 "	1,147.0	27/2 "	1,382.0	26/2 "	1,418.0
7/3 "	984.2	6/3 "	1,398.0	5/3 "	1,511.0
14/3 "	988.0	13/3 "	1,451.0	12/3 "	1,043.0
15/3 "	281.0	14/3 13/3 "	716.8	10/3 "	1,057.0
Total	14,854.9	Total	15,438.8	Total	15,300.0

whale unit is reckoned 1 blue-whale or 2 fin-whales or 2½ humpbacks or 6 sei-whales).

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 or female whales accompanied by a calf. The Convention also contained a provision enjoining full utilization of whales.

7. The taking of humpback whales was prohibited between 0° and 70° West.
8. Pelagic hunting of baleen whales was prohibited between 70° West and 160° West.
9. The open season for sperm-whales was 8 months and the minimum size limit 38 feet.
10. Notification should be given within two days after the end of each calendar week, of data on the number of blue-whale units taken in any waters south of 40° South Latitude by all whale catchers attached to factory ships under the jurisdiction of each Contracting Government; provided that when the number of blue-whale units was deemed by the Committee for International Whaling Statistics to have reached

**Table b.—Number and gross tonnage of floating factories and catchers engaged in pelagic whaling in the Antarctic 1943/44—1954/55.**

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.
1943-44....	1	12,215	12,215	8	2,480	310	1,013
1944-45....	1	14,362	14,362	8	2,480	310	1,013
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 <sup>1)</sup> ..	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

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

14,000, notification should be given as aforesaid at the end of each day of data on the number of blue-whale units taken.

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 6 and 9 above, except that the minimum size limit for sperm-whales was 35 feet.

Table *a*, page 8, gives a survey of the weekly catch of baleen whales converted into blue-whale units during the last 3 seasons in accordance with the telegraphic reports from the grounds.

Pursuant to the regulations laid down in the International Convention the Committee for International Whaling Statistics received weekly reports of the catch in blue-whale units from the opening of the baleen whale season until the total catch amounted to about 14,000 units. From that time daily reports were sent. Per March 14th the total catch amounted to 14,621 blue-whale units, and the Committee determined the closing date to be March 19th midnight. On March 15th the expeditions were notified accordingly. The Japanese floating factory "*Kinjyo Maru*", however, ceased operations on March 10th.

According to the telegraphic reports from the grounds the aggregate result per March 19th amounted to 15,300 blue-whale units or 200 blue-whale units less than the permissible maximum quota. It will be seen from table *a* that there was a marked decline in the catch during the two last weeks of the season. By examining the statistical data provided by the companies after the return of the expeditions from the grounds, the total catch of the pelagic expeditions amounted to:

2,163 blue-whales	=	2,163.0 blue-whale units
25,878 fin-whales	=	12,939.0 —" —
493 humpbacks	=	197.2 —" —
146 sei-whales	=	24.3 —" —

Total 28,680 whales = 15,323.5 blue-whale units

The discrepancy between the telegraphic reports and the above aggregate figures extracted from the statistical forms is partly due to the fact that some of the expeditions do not include in their weekly reports whales lost in flag, or whales lost by the floating factories.

Table c.—Total 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.	
							Barrels.					
1919-20	1,874	3,213	261	71	8 <sup>1)</sup>	14	5,441	272,817	6	6	44	124
1920-21	2,617	5,491	260	36	31 <sup>1)</sup>	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 <sup>1)</sup>	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 <sup>1)</sup>	10	14,219	783,307	6	15	70	203
1926-27	6,545	5,102	189	778	39 <sup>1)</sup>	12	12,665	872,362	6	17	80	158
1927-28	8,334	4,459	23	883	72 <sup>1)</sup>	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 <sup>1)</sup>	1	30,655	2,546,759	6	38	194	158
1930-31	29,410	10,017	576	145	51 <sup>1)</sup>	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 <sup>1)</sup>	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 <sup>1)</sup>	1	38,356	2,820,771	2	34	281	136
1939-40	11,480	18,694	2	81	1,938 <sup>2)</sup>	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 <sup>1)</sup>	1	25,593	1,939,742	3	15	147	174
1947-48	6,908	21,141	26	621	2,622	2	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 <sup>3)</sup>	1	33,997	2,303,690	3	19	260	131
1951-52	5,130	22,527	1,556	530	5,485 <sup>4)</sup>	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 <sup>4)</sup>	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

<sup>1)</sup> Right-whales. <sup>2)</sup> 703 "Baleen-whales" no specification given, 2 right-whales. <sup>3)</sup> Bottlenose. <sup>4)</sup> Minke-whales.

From and including the season 1947-48 the official closing date for pelagic baleen whale operations has been determined by the Committee for International Whaling Statistics. The catch, converted into blue-whale units, in relation to the maximum quota during these seasons has been as follows:

Season	Catch in blue-whale units	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
Total	<u>126,504.2</u>	<u>127,000</u>

During these 8 seasons the catch has been 495.8 blue-whale units or 0.39 per cent lower than the permitted maximum quota.

The whaling period for pelagic baleen whale operations after the war has been as follows:

Season		Catching days
1945-46	November 24th-March 24th	121
1946-47	December 8th-April 7th	121
1947-48	December 8th-March 31st	115
1948-49	December 15th-March 26th	102
1949-50	December 22nd-March 15th	84
1950-51	December 22nd-March 9th	78
1951-52	January 2nd-March 5th	64
1952-53	January 2nd-March 16th	74
1953-54	January 2nd-March 18th	76
1954-55	January 7th-March 19th	72

The whaling period for blue-whales during the season 1953-54 was from January 16th to March 18th and during the season 1954-55 from January 21st to March 19th.

Table *b*, page 9, gives information of the number and gross tonnage of the floating factories and catchers engaged in pelagic whaling from 1943-44. The average engine power of the catchers is also recorded in the table. The survey below shows the number of floating factories and the number of catchers engaged per floating factory from and including 1947/48:

Season	Number of floating factories	Average number of catchers per floating factory
1947-48	17	9.5
1948-49	18	10.6
1949-50	18	12.0
1950-51	19	12.6
1951-52	19	13.8
1952-53	16	14.4
1953-54	17	12.1
1954-55	19	12.3

During the seasons until and including 1952-53 the number of catchers engaged per floating factory was steadily increasing, and the capacity of

Table d.—Pelagic whaling in the Antarctic.<sup>1</sup>

Years.	Species of whales caught.						Total of whales.	Oil production.	Expeditions.			Number of whales per boat.
	Blue.	Fin.	Hump-back.	Sci.	Sperm.	Others.			Shore stations.	Float-ing fac-tories.	Catch-ers.	
								Barrels.				
1919-20	887	1,540	182	-	-	-	2,609	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	<sup>2</sup> ) 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	<sup>2</sup> ) 10	6,394	378,850	1	14	47	136
1926-27	2,856	3,958	189	413	22	<sup>2</sup> ) 12	7,450	455,070	1	16	57	131
1927-28	6,209	3,102	23	788	12	<sup>2</sup> ) 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	<sup>2</sup> ) 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	<sup>2</sup> ) 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	<sup>2</sup> ) 1	36,681	2,709,281	-	34	270	136
1939-40	11,392	17,757	2	1	1,853	<sup>3</sup> ) 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	179
1947-48	6,862	18,999	2	12	2,494	-	28,369	1,940,653	-	17	162	175
1948-49	7,399	17,201	13	16	3,865	-	28,494	2,047,427	-	18	191	149
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	<sup>4</sup> ) 1	31,180	2,152,498	-	19	239	130
1951-52	5,124	20,520	1,546	32	5,344	<sup>5</sup> ) 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	<sup>5</sup> ) 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

<sup>1</sup>) 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. <sup>2</sup>) Right-whales. <sup>3</sup>) 703 "Baleen whales" no specification given, 1 right-whale. <sup>4</sup>) Bottlenose. <sup>5</sup>) Minke-whales.

**Table e.—Average production per floating factory and catcher in the pelagic whaling in Antarctic 1928/29—1954/55 (exclusive of the war seasons).**

**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.
1928-29 .....	<sup>1) 2)</sup> 1,282,281	25	51,291	3,762	150	8,549	341
1929-30 .....	2,258,842	38	59,443	5,846	154	14,668	386
1930-31 .....	3,384,048	41	82,538	6,940	169	20,024	488
1931-32 .....	686,193	5	137,239	773	155	4,427	888
1932-33 .....	2,395,042	17	140,885	2,470	145	16,518	970
1933-34 .....	2,225,663	19	117,140	2,298	121	18,394	969
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
1945-46 .....	728,716	9	80,968	993	110	6,625	734
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

**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 <sup>3)</sup> per catcher's day-work
				Total.	Average per catcher.		
	Barrels.		Barrels.			Barrels.	
1928-29 ....	<sup>1) 2)</sup> 1,282,281	88	14,571	12,835	146	100	1.18
1929-30 ....	2,258,842	163	13,858	25,049	154	90	1.01
1930-31 ....	3,384,048	200	16,920	33,690	168	100	1.09
1931-32 ....	686,193	33	20,794	5,149	156	133	1.43
1932-33 ....	2,395,042	112	21,384	16,150	144	148	1.44
1933-34 ....	2,225,663	114	19,523	13,725	120	162	1.68
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
1945-46 ....	728,716	77	9,464	8,253	107	88	1.36
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

<sup>1)</sup> Including the production from "Deception". <sup>2)</sup> Including the production of the aux. factory "Ole Wegger". <sup>3)</sup> Not including sperm-whales.

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

Years.	Species of whales caught.					
	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Total.
	Per cent.	Per cent.	Per cent.	Per cent.	Per cent.	Per cent.
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

the new catchers in operation was considerably higher in respect to average gross tonnage as well as engine power, compared with the catchers previously engaged. It was urgent to provide the most effective matériel in order to obtain the largest possible share of the permitted maximum quota. For the season 1953-54, however, the companies succeeded in coming to an agreement restricting the number of catchers. This agreement was acceded to by all the companies engaged in pelagic whaling in the Antarctic with the exception of one single company. The agreement was renewed for the season 1954-55 with certain modifications, but this time two companies remained outside. The agreement resulted in a reduction of the average number of catchers per floating factory from 14.4 during the season 1952-53 to 12.1 in 1953-54 and 12.3 in 1954-55. From table *b* it will be seen that the average engine capacity of the catchers increased from 1,302 I.H.P. in 1947-48 to 1,933 I.H.P. in 1954-55.

The total whaling results in the Antarctic from 1919-20 up to and including 1954-55 will be seen in table *c*, page 10. In table *d*, page 12, the results of the pelagic whaling during the same period have been recorded separately.

During the season 1954-55 the pelagic expeditions killed a total of 34,388 whales against 31,218 whales during the previous season. This in-

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

Species of whales, and seasons.	Nov.	Dec.	Jan.	Feb.	March.	April.	Total.	The Whal. ing Statist. tics' total figures.	
<i>Total animals.</i>	1938-39..	1,362	10,138	12,618	9,978	2,569	—	<sup>1)</sup> 36,665	<sup>1)</sup> 36,681
	1946-47..	353	4,549	6,258	5,763	5,364	746	23,033	23,043
	1947-48..	455	5,317	9,180	6,833	6,401	6	28,192	28,369
	1948-49..	848	5,151	9,776	7,393	5,164	1	28,333	28,494
	1949-50..	24	5,945	10,697	8,602	3,499	—	28,767	29,017
	1950-51..	1,028	6,075	10,603	10,751	2,475	—	30,932	31,179
	1951-52..	1,077	3,504	12,794	13,277	1,651	—	32,303	32,566
	1952-53..	64	1,444	12,302	9,764	4,465	—	28,039	28,325
	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	
<i>Blue- whales.</i>	1938-39..	849	5,128	4,892	2,365	605	—	13,839	13,849
	1946-47..	1	2,592	2,248	1,793	1,948	282	8,864	8,865
	1947-48..	2	2,295	1,968	1,481	1,099	—	6,845	6,862
	1948-49..	—	1,864	2,587	1,721	1,199	—	7,371	7,399
	1949-50..	—	627	2,620	2,124	761	—	6,132	6,168
	1950-51..	—	1,060	2,771	2,434	663	—	6,928	6,966
	1951-52..	—	1	2,325	2,495	280	—	5,101	5,124
	1952-53..	1	6	2,150	1,249	441	—	3,847	3,866
	1953-54..	—	1	567	1,365	734	—	2,667	2,684
1954-55..	—	—	645	965	544	—	2,154	2,163	
<i>Fin- whales.</i>	1938-39..	64	3,608	6,956	7,057	1,792	—	19,477	19,477
	1946-47..	1	1,584	3,740	3,760	3,322	463	12,870	12,877
	1947-48..	—	2,164	6,571	5,004	5,119	6	18,864	18,999
	1948-49..	—	1,885	6,416	5,114	3,666	—	17,081	17,201
	1949-50..	—	2,038	6,981	6,231	2,626	—	17,876	18,061
	1950-51..	—	2,435	7,267	6,055	1,539	—	17,296	17,474
	1951-52..	—	—	10,137	8,875	1,300	—	20,312	20,520
	1952-53..	1	5	9,940	7,400	3,618	—	20,964	21,197
	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	
<i>Hump- backs.</i>	1938-39..	134	456	235	58	—	—	883	883
	1946-47..	—	—	—	—	—	1	1	1
	1947-48..	1	1	—	—	—	—	2	2
	1948-49..	2	5	2	—	4	—	13	13
	1949-50..	—	1,425	679	1	—	—	2,105	2,117
	1950-51..	—	—	—	1,624	—	—	1,624	1,630
	1951-52..	—	1	—	1,531	—	—	1,532	1,546
	1952-53..	—	2	—	938	1	—	941	954
	1953-54..	—	—	—	587	6	—	593	594
1954-55..	—	3	2	487	—	—	492	493	
<i>Sei- whales.</i>	1938-39..	—	—	—	—	<sup>1)</sup> 4	—	<sup>1)</sup> 4	<sup>1)</sup> 4
	1946-47..	—	—	—	—	2	—	2	2
	1947-48..	—	—	—	—	12	—	12	12
	1948-49..	—	—	—	1	15	—	16	16
	1949-50..	—	—	2	21	78	—	101	101
	1950-51..	—	—	—	322	39	—	361	367
	1951-52..	—	—	9	21	1	—	31	32
	1952-53..	—	—	1	22	92	—	115	123
	1953-54..	—	—	60	147	42	—	249	251
1954-55..	—	—	7	95	43	—	145	146	
<i>Sperm- whales.</i>	1938-39..	315	946	535	498	168	—	2,462	2,468
	1946-47..	351	373	270	210	92	—	1,296	1,298
	1947-48..	452	857	641	348	171	—	2,469	2,494
	1948-49..	846	1,397	771	557	280	1	3,852	3,865
	1949-50..	24	1,855	415	225	34	—	2,553	2,570
	1950-51..	1,028	2,580	565	316	234	—	4,723	4,742
	1951-52..	1,077	3,502	323	355	70	—	5,327	5,344
	1952-53..	62	1,431	211	155	313	—	2,172	2,185
	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	

<sup>1)</sup> 1 right-whale included.



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

Species of whales, and seasons.	Nov.	Dec.	Jan.	Feb.	March.	April.	Total.	The Whaling Statistics' total figures.	
<i>Total animals</i>	1938-39	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
	1946-47	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
	.....	.	.	.	.	.	.	.	
	.....	.	.	.	.	.	.	.	
<i>Blue-whales</i>	1938-39	62.4	50.6	38.8	23.7	23.6	—	37.8	37.8
	1946-47	0.3	57.0	35.9	31.1	36.3	37.8	38.5	38.5
	1947-48	0.4	43.2	21.4	21.7	17.1	—	24.3	24.2
	1948-49	—	36.2	26.5	23.3	23.2	—	26.0	26.0
	1949-50	—	10.5	24.5	24.7	21.7	—	21.3	21.3
	1950-51	—	17.4	26.1	22.7	26.8	—	22.4	22.3
	1951-52	—	0.1	18.2	18.8	17.0	—	15.8	15.7
	1952-53	1.6	0.4	17.5	12.8	9.9	—	13.7	13.7
	1953-54	—	0.1	4.6	13.3	11.8	—	8.7	8.6
1954-55	—	—	5.0	8.5	9.2	—	6.3	6.3	
<i>Fin-whales</i>	1938-39	4.7	35.6	55.1	70.7	69.8	—	53.1	53.1
	1946-47	0.3	34.8	59.8	65.2	62.0	62.1	55.9	55.9
	1947-48	—	40.7	71.6	73.2	80.0	100.0	66.9	67.0
	1948-49	—	36.6	65.6	69.2	71.0	—	60.3	60.4
	1949-50	—	34.3	65.3	72.4	75.1	—	62.1	62.2
	1950-51	—	40.1	68.6	56.3	62.2	—	55.9	56.1
	1951-52	—	—	79.2	66.8	78.7	—	62.9	63.0
	1952-53	1.5	0.4	80.8	75.8	81.0	—	74.8	74.8
	1953-54	—	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	
<i>Hump-backs</i>	1938-39	9.8	4.5	1.9	0.6	—	—	2.4	2.4
	1946-47	—	—	—	—	—	0.1	—	—
	1947-48	0.2	—	—	—	—	—	—	—
	1948-49	0.2	0.1	—	—	0.1	—	—	—
	1949-50	—	24.0	6.3	—	—	—	7.3	7.3
	1950-51	—	—	—	15.1	—	—	5.2	5.2
	1951-52	—	—	—	11.5	—	—	4.7	4.8
	1952-53	—	0.1	—	9.6	2.1	—	3.4	3.4
	1953-54	—	—	—	5.7	—	—	1.9	1.9
1954-55	—	0.1	—	4.3	—	—	1.5	1.4	
<i>Sei-whales</i>	1938-39	—	—	—	—	0.1	—	—	—
	1946-47	—	—	—	—	—	—	—	—
	1947-48	—	—	—	—	0.2	—	—	—
	1948-49	—	—	—	—	0.3	—	0.1	—
	1949-50	—	—	—	0.3	2.2	—	0.4	0.3
	1950-51	—	—	—	3.0	1.6	—	1.2	1.2
	1951-52	—	—	0.1	0.2	0.1	—	0.1	0.1
	1952-53	—	—	—	0.2	—	—	0.4	0.4
	1953-54	—	—	0.5	1.4	0.7	—	0.8	0.8
1954-55	—	—	0.1	0.8	0.7	—	0.4	0.4	
<i>Sperm-whales</i>	1938-39	23.1	9.3	4.2	5.0	6.5	—	6.7	6.7
	1946-47	99.4	8.2	4.3	3.7	1.7	—	5.6	5.6
	1947-48	99.4	16.1	7.0	5.1	2.7	—	8.8	8.8
	1948-49	99.8	27.1	7.9	7.5	5.4	100.0	13.6	13.6
	1949-50	100.0	31.2	3.9	2.6	1.0	—	8.9	8.9
	1950-51	100.0	42.5	5.3	2.9	9.4	—	15.3	15.2
	1951-52	100.0	99.9	2.5	2.7	4.2	—	16.5	16.4
	1952-53	96.9	99.1	1.7	1.6	7.0	—	7.7	7.7
	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	

**Table i.—Average size of whales killed in the Antarctic, by whaling grounds and species of whales 1938/39 and 1944/45—1954/55.**

Whaling grounds and species of whales.	1938 -39	1944 -45	1945 -46	1946 -47	1947 -48	1948 -49	1949 -50	1950 -51	1951 -52	1952 -53	1953 -54	1954 -55
<b>Pelagic whaling.</b>	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.
<i>Blue-whales.</i>												
Males .....	76.6	76.3	76.8	76.8	77.1	77.5	77.7	77.3	76.4	75.8	76.0	75.7
Females .....	79.5	79.3	79.9	79.7	79.9	80.8	80.7	79.4	79.5	79.1	79.6	79.5
Total animals.....	78.0	77.9	78.3	78.3	78.4	79.1	79.0	78.2	78.0	77.5	78.0	77.8
<i>Fin-whales.</i>												
Males .....	65.7	66.3	66.1	65.8	66.6	66.4	66.0	65.2	66.4	65.7	65.6	65.1
Females .....	68.9	68.9	69.2	69.0	69.6	69.6	69.1	68.2	69.4	68.8	68.7	68.0
Total animals.....	67.2	67.3	67.5	67.4	67.9	67.9	67.5	66.6	67.9	67.3	67.1	66.5
<i>Humpbacks.</i>												
Males .....	37.7	—	—	—	—	39.7	39.7	39.7	39.3	39.5	39.6	39.9
Females .....	40.5	—	—	48.0	46.0	42.5	41.4	41.6	41.4	42.0	41.1	41.8
Total animals.....	39.6	—	—	48.0	46.0	41.8	40.6	40.8	40.4	40.9	40.3	41.1
<b>South Georgia.</b>												
<i>Blue-whales, total ...</i>	75.8	73.4	73.4	77.1	76.3	76.3	74.3	76.9	72.0	74.0	73.3	73.0
<i>Fin-whales, total ...</i>	65.4	65.4	66.2	67.5	65.8	65.6	65.2	66.0	66.0	65.4	64.0	64.8
<i>Humpbacks, total ...</i>	—	42.0	41.5	38.6	41.4	40.2	40.0	40.1	39.8	40.1	39.4	40.0
<i>Sperm-whales, total..</i>	50.3	48.9	47.7	45.1	46.7	46.0	48.6	46.9	48.1	46.7	47.0	48.7

crease is mainly due to the increased catch of sperm-whales by some 3,000 animals. The total number of baleen whales killed was about the same during both seasons. There was a further decline in the number of blue-whales killed, to 2,163 whales in 1954–55 from 2,684 during the previous season, i.e. a decline of 521 animals. On the other hand the fin-whale catch increased by 892 animals, from 24,986 in 1953–54 to 25,878 in 1954–55. The catch of humpbacks and sei-whales declined by about 100 whales of each species during the last season.

The oil-production of the pelagic expeditions during the season 1954–55 amounted to a total of 2,061,789 barrels, of which 1,780,067 barrels were whale-oil and 281,722 barrels sperm-oil. During the previous season the total output of oil amounted to 2,100,884 barrels, of which 1,964,994 barrels of whale-oil and 135,890 barrels of sperm-oil. The decrease in the output of whale-oil in 1954–55 — of 184,927 barrels — was disproportionately high considered that the catch of baleen whales, converted into blue-whale units, only decreased from 15,456 in 1953–54 to 15,323 in 1954–55, or by 133 blue-whale units.

Table e, page 13, gives a survey for a series of years of the average total and average daily oil production per floating factory as well as per catcher. The table includes the production of whale-oil only. When judging the results on the basis of these figures, due consideration must be taken to the limitation of the catch through curtailments and postponements of

the whaling period and fixation of maximum quotas. Moreover, attention must be drawn to the variation in the number of floating factories and catchers employed, and to the considerable increase in the capacity of the whaling matériel in the post-war years.

Table *f*, page 14, illustrates the relation between the various species of whales killed in pelagic operations in the Antarctic from 1928-29. The blue-whale catch in 1954-55 represented 6.3 per cent of the total number of whales killed against 8.6 per cent in the preceding season. The fin-whales killed represented 75.3 per cent of the total catch against 80 per cent in the preceding season.

In the survey below is stated the number of blue- and fin-whales killed and the correlation between the catch of these two most important species of baleen whales during a number of seasons:

Season	Blue-whales		Fin-whales	
	Number	Per cent	Number	Per cent
1930-31	28,325	76.7	8,601	23.3
1932-33	18,624	80.7	4,441	19.3
1937-38	14,826	35.9	26,457	64.1
1938-39	13,849	41.6	19,477	58.4
1947-48	6,862	26.5	18,999	73.5
1948-49	7,399	30.1	17,201	69.9
1949-50	6,168	25.5	18,061	74.5
1950-51	6,966	28.5	17,474	71.5
1951-52	5,124	20.0	20,520	80.0
1952-53	3,866	15.4	21,197	84.6
1953-54	2,684	9.7	24,986	90.3
1954-55	2,163	7.7	25,878	92.3

During the seasons previous to 1937-38 the predominant species of the baleen whales taken in Antarctic waters were blue-whales. During the seasons 1930-31 and 1932-33 about 80 per cent of the total blue- and fin-whale catch were blue-whales, whereas the number of blue-whales killed during the season 1954-55 only represented 7.7 per cent of the total blue- and fin-whale catch. The figures in the survey above do not give a correct picture of the presence of blue-whales at previous and present times. It will appear from the statistics of previous years recorded for pelagic whaling in the Antarctic that the presence of blue-whales is more abundant during the Antarctic spring months, i.e. October, November and December. Later in the season the fin-whale is the dominating species. In order to reduce the taxation of blue-whales the opening day of the pelagic season has gradually been postponed ever since the early thirties. In the season 1954-55 the opening day of the blue-whale season was January 21st, while the blue-whale catch in 1932-33 commenced on October 20th.

**Table j.—Average size of whales killed, by species and sex 1938/39 and 1944/45—1954/55, excl. of blue-whales less than 70', fin-whales less than 60' and humpbacks less than 35'. Antarctic, pelagic whaling.**

Species of whales.	1938 -39	1944 -45	1945 -46	1946 -47	1947 -48	1948 -49	1949 -50	1950 -51	1951 -52	1952 -53	1953 -54	1954 -55
<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 . . . . .	77.3	76.5	77.2	77.6	77.6	77.9	78.2	77.8	77.1	76.3	76.4	76.1
Females . . . . .	80.3	79.4	80.3	80.5	80.4	81.2	81.3	80.0	80.1	79.5	80.1	80.0
Total animals.	78.8	78.0	78.7	79.1	79.0	79.5	79.6	78.8	78.6	78.0	78.5	78.2
<i>Fin-whales.</i>												
Males . . . . .	66.5	66.6	66.4	66.4	67.1	66.9	66.7	66.3	66.7	66.0	65.9	65.9
Females . . . . .	69.8	69.2	69.6	69.5	70.1	70.2	70.0	69.3	69.7	69.1	69.0	68.9
Total animals.	68.1	67.7	67.8	68.0	68.4	68.5	68.3	67.8	68.1	67.6	67.4	67.4
<i>Humpbacks.</i>												
Males . . . . .	38.1	—	—	—	—	39.7	40.1	40.1	39.6	39.7	39.7	40.0
Females . . . . .	40.8	—	—	48.0	46.0	43.6	41.8	41.8	41.7	42.2	41.3	41.9
Total animals.	40.0	—	—	48.0	46.0	42.6	41.0	41.1	40.7	41.1	40.5	41.1

In tables *g* and *h*, pages 15 and 16, the monthly catch of the various species is recorded in absolute and percentage figures for a series of seasons. By examining these figures it appears that the blue-whale in each month of the later years represents a smaller part of the total catch than during the pre-war seasons. The figures are, however, to a great extent influenced by the above mentioned postponement of the whaling period. In January 1954-55 when the whaling period for blue-whales embraced only 11 days (for fin-whales 30 days) the number of blue-whales killed represented only 5 per cent of the total January catch. During the preceding season with 16 days' January catch for blue-whales (for fin-whales 30 days) the corresponding percentage figure was 4.6. In January 1952-53, when the blue-whale operations as well as the fin-whale operations were carried on throughout 30 days, 17.5 per cent of all whales killed were blue-whales. The average daily number of blue-whales killed in January 1953 was 71.7, in January 1954 35.4, and in January 1955 58.6.

Only the month of February has been unaffected by the curtailments and postponements of the catching period. The catch has in February been carried on throughout the entire month during all seasons, but also here the percentage figures for the blue-whale catch show a marked decrease.

The survey below gives a more correct basis of comparison between the blue-whale catch of later seasons and of previous years, showing the percentage proportion of blue-whales in relation to the total blue- and fin-whale catch during the period January 21st (incl.)—March 5th (incl.) for each season since 1931-32. During the said period whaling operations have been carried on at full capacity throughout all the seasons.

Season	Number of blue-	Blue-whales in per cent of all
	whales killed Jan. 21st—March 5th	
1931/32	1,461	68.0
1932/33	3,939	58.5
1933/34	3,095	49.2
1934/35	4,487	42.9
1935/36	5,544	52.3
1936/37	4,537	34.9
1937/38	3,661	19.0
1938/39	4,021	26.1
1945/46	1,675	30.1
1946/47	2,750	32.5
1947/48	2,421	22.1
1948/49	2,890	25.3
1949/50	3,390	25.4
1950/51	4,078	30.1
1951/52	3,558	21.0
1952/53	2,194	15.4
1953/54	1,875	12.8
1954/55	1,811	10.7

While the percentage proportion of blue-whales in relation to the total blue- and fin-whale catch varied between 22.1 per cent and 32.5 per cent during the first post-war seasons until and including 1950–51, there has been a steady and marked decline in the blue-whale catch during the later seasons. During the seasons 1951/52—1954/55 the percentage proportion of blue-whales was 21.0, 15.4, 12.8 and 10.7 respectively. From these figures one may draw the conclusion that the stock of blue-whales has become considerably decimated.

Table *i*, page 17, gives the average size of blue-whales, fin-whales and humpbacks killed in the pelagic operations and off South Georgia from and including 1938–39. The minimum length settled for blue-whales and humpbacks since 1937–38 has been 70 ft. and 35 ft. respectively. The minimum length settled for fin-whales was 55 ft. until and including the season 1950–51. For the seasons 1951–52, 1952–53 and 1953–54 the minimum length was 60 ft. and during the season 1954–55 57 ft. In order to eliminate the possible influence which a variation in the legal size and in the number of undersized whales killed might have on the average size, table *j*, on page 19, has been prepared. This table records the average size of blue-whales of 70 ft. and over, fin-whales of 60 ft. and over, and humpbacks of 35 ft. and over.

It will be observed from the tables that the average length of all blue-whales killed during the season 1954–55 decreased by 0.2 ft. and the average length of the blue-whales above the settled minimum length

Table k.—Antarctic, pelagic whaling. Catch of immature and mature whales 1938/39 and 1946/47—1954/55.

	1938—39.		1946—47.		1947—48.		1948—49.		1949—50.		1950—51.		1951—52.		1952—53.		1953—54.		1954—55.	
	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.
<b>Blue-whales.</b>																				
Immature																				
males . . . .	1,940	27.8	1,014	23.0	870	24.6	797	20.6	650	19.1	875	23.3	778	31.7	677	36.8	409	33.5	374	37.4
females . . .	2,343	34.1	1,335	29.9	1,088	32.9	933	26.7	764	28.0	1,164	36.7	1,015	38.4	827	41.2	564	39.0	439	38.0
animals . . .	4,283	30.9	2,349	26.5	1,958	28.6	1,730	23.5	1,414	23.1	2,039	29.4	1,793	35.1	1,504	39.1	973	36.5	813	37.7
Mature																				
males . . . .	5,034	72.2	3,387	77.0	2,667	75.4	3,077	79.4	2,755	80.9	2,882	76.7	1,680	68.3	1,165	63.2	811	66.5	626	62.6
females . . .	4,522	65.9	3,128	70.1	2,220	67.1	2,564	73.3	1,963	72.0	2,007	63.3	1,628	61.6	1,178	58.8	883	61.0	715	62.0
animals . . .	9,556	69.1	6,515	73.5	4,887	71.4	5,641	76.5	4,718	76.9	4,889	70.6	3,308	64.9	2,343	60.9	1,694	63.5	1,341	62.3
<b>Fin-whales.</b>																				
Immature																				
males . . . .	2,097	20.2	1,018	15.9	1,241	11.9	1,215	13.7	1,557	16.8	2,037	22.7	1,495	14.2	2,151	20.6	2,593	20.4	3,348	26.3
females . . .	2,039	22.4	1,108	17.1	1,365	16.2	1,279	15.5	1,645	19.1	2,092	25.1	1,867	19.1	2,486	23.6	2,802	23.4	3,645	28.2
animals . . .	4,136	21.2	2,126	16.5	2,606	13.8	2,494	14.6	3,202	17.9	4,129	23.9	3,362	16.6	4,637	22.1	5,395	21.9	6,993	27.3
Mature																				
males . . . .	8,297	79.8	5,385	84.1	9,216	88.1	7,627	86.3	7,726	83.2	6,919	77.3	9,025	85.8	8,296	79.4	10,106	79.6	9,358	73.7
females . . .	7,044	77.6	5,359	82.9	7,042	83.8	6,960	84.5	6,948	80.9	6,248	74.9	7,925	80.9	8,031	76.4	9,174	76.6	9,257	71.8
animals . . .	15,341	78.8	10,744	83.5	16,258	86.2	14,587	85.4	14,674	82.1	13,167	76.1	16,950	83.4	16,327	77.9	19,280	78.1	18,615	72.7
<b>Humpbacks.</b>																				
Immature																				
males . . . .	182	69.2	—	—	—	—	2	66.7	400	41.1	298	43.4	347	48.9	207	50.7	159	52.1	87	43.5
females . . .	310	50.0	—	—	—	—	4	40.0	424	37.5	315	33.6	330	40.1	183	34.3	132	45.8	107	36.6
animals . . .	492	55.7	—	—	—	—	6	46.1	824	39.1	613	37.7	677	44.2	390	41.4	291	49.1	194	39.4
Mature																				
males . . . .	81	30.8	—	—	—	—	1	33.3	573	58.9	388	56.6	363	51.1	201	49.3	146	47.9	113	56.5
females . . .	310	50.0	1	100.0	2	100.0	6	60.0	708	62.5	623	66.4	492	59.9	350	65.7	156	54.2	185	63.4
animals . . .	391	44.3	1	100.0	2	100.0	7	53.9	1,281	60.9	1,011	62.3	855	55.8	551	58.6	302	50.9	298	60.6

Table I.—Number and average size of whales caught in the different areas of Antarctic. Pelagic whaling.

Species of whales. Seasons.	Area II.			Area III.			Area IV.			Area V.			All areas.			The Whaling Statistics' total figures for whales caught.
	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.	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.	
<b>Blue-whales.</b>																
1931/32-1937/38	<sup>1)</sup> 17,214	16.7	79.0	48,125	46.8	78.4	37,210	36.2	80.2	<sup>2)</sup> 314	0.3	80.4	102,863	100	79.2	102,950
1938-39	3,454	25.0	79.0	4,455	32.2	77.0	4,915	35.5	77.9	1,015	7.3	79.7	13,839	100	78.0	13,849
1939-40	3,441	61.9	78.2	734	13.2	76.8	1,386	24.9	78.7	-	-	-	5,561	100	78.2	11,392
1940/41-1944/45	2,106	90.8	77.9	214	9.2	78.5	-	-	-	-	-	-	2,320	100	77.9	6,161
1945-46	599	17.0	78.3	2,917	83.0	78.3	-	-	-	-	-	-	3,516	100	78.3	3,526
1946-47	1,857	21.0	78.6	2,968	33.5	78.4	3,346	37.7	78.1	693	7.8	77.6	8,864	100	78.3	8,865
1947-48	1,536	22.5	76.7	1,890	27.6	78.6	1,952	28.5	79.1	1,467	21.4	78.7	6,845	100	78.4	6,862
1948-49	2,022	27.4	78.6	2,981	40.4	79.3	1,325	18.0	79.1	1,043	14.2	79.2	7,371	100	79.1	7,399
1949-50	1,064	17.3	78.4	1,512	24.7	78.5	925	15.1	78.9	2,631	42.9	79.6	6,132	100	79.0	6,168
1950-51	1,559	22.5	77.4	1,427	20.6	77.8	1,076	15.5	77.7	2,866	41.4	79.2	6,928	100	78.2	6,966
1951-52	447	8.8	78.2	1,836	36.0	79.2	1,199	23.5	77.7	1,619	31.7	76.9	5,101	100	78.0	5,124
1952-53	727	18.9	78.9	1,454	37.8	77.7	837	21.8	77.0	829	21.5	76.6	3,847	100	77.5	3,866
1953-54	542	20.3	78.1	1,569	58.8	78.2	356	13.4	77.2	200	7.5	77.3	2,667	100	78.0	2,654
1954-55	470	21.8	79.0	685	31.8	78.1	310	14.4	77.6	689	3.0	76.6	2,154	100	77.8	2,163
1931/32-1954/55	37,038	20.8	78.6	72,767	40.9	78.4	54,837	30.8	79.6	13,366	7.5	78.6	178,008	100	78.8	187,975
<b>Fin-whales.</b>																
1931/32-1937/38	<sup>2)</sup> 25,970	36.3	67.8	31,251	43.6	67.7	14,373	20.1	68.7	<sup>1)</sup> 20	-	69.2	71,614	100	67.9	71,649
1938-39	6,252	32.1	67.4	5,710	29.3	66.4	5,540	28.5	67.5	1,975	10.1	68.1	19,477	100	67.2	19,477
1939-40	7,840	73.7	67.4	2,218	20.9	66.9	574	5.4	67.5	-	-	-	10,632	100	67.3	17,757
1940/41-1944/45	2,039	97.7	66.5	49	2.3	67.4	-	-	-	-	-	-	2,088	100	66.6	8,289
1945-46	4,901	63.6	67.7	2,800	36.4	67.1	-	-	-	-	-	-	7,701	100	67.5	7,729
1946-47	4,655	36.2	66.7	4,382	34.0	68.5	3,355	26.1	67.3	478	3.7	65.9	12,870	100	67.4	12,877
1947-48	6,136	32.5	68.1	6,483	34.4	67.8	4,654	24.7	67.9	1,591	8.4	67.9	18,864	100	67.9	18,999
1948-49	4,995	29.2	67.4	6,457	37.8	68.5	3,068	18.0	67.4	2,561	15.0	68.2	17,081	100	67.9	17,201
1949-50	7,150	40.0	67.5	5,117	28.6	67.5	2,940	16.5	66.6	2,669	14.9	68.2	17,876	100	67.5	18,061
1950-51	5,543	32.1	66.5	4,133	23.9	66.2	4,210	24.3	66.5	3,410	19.7	67.7	17,296	100	66.6	17,474
1951-52	5,977	29.4	67.9	7,122	35.1	68.1	2,141	10.5	67.3	5,072	25.0	67.8	20,312	100	67.9	20,520
1952-53	4,551	21.7	68.1	11,364	54.2	67.1	1,449	6.9	66.2	3,600	17.2	67.3	20,964	100	67.3	21,197
1953-54	7,751	31.4	67.4	11,459	46.4	67.0	2,195	8.9	67.0	3,270	13.3	66.8	24,675	100	67.1	24,986
1954-55	4,963	19.4	67.3	13,607	53.1	66.4	2,790	10.9	66.4	<sup>3)</sup> 4,248	16.6	66.1	25,608	100	66.5	25,878
1931/32-1954/55	98,723	34.4	67.5	112,152	39.1	67.3	47,289	16.5	67.6	23,894	10.0	67.4	287,058	100	67.5	302,094

<sup>1)</sup> Incl. 608 blue-whales, length not stated. <sup>2)</sup> Incl. 193 fin-whales, length not stated. <sup>3)</sup> Incl. 3 blue-whales caught in Area I (1933/34). <sup>4)</sup> Incl. 2 fin-whales caught in Area I (1933/34). <sup>5)</sup> Incl. 3 fin-whales caught in Area I.

Humpbacks, see next page.

Table I (cont.). Number and average size of whales caught in the different areas of the Antarctic. Pelagic whaling.

Species of whales. Seasons.	Area II.			Area III.			Area IV.		
	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.
<b>Humpbacks.</b>									
1931/32-1937/38 . . . . .	1,057	8.4	41.0	6,209	49.1	40.8	5,384	42.5	40.7
1938-39 . . . . .	-	-	-	-	-	-	859	97.3	39.6
1940-41 . . . . .	231	82.8	42.6	48	17.2	41.2	-	-	-
1946/47-1948/49 . . . . .	6	37.5	44.0	9	56.3	41.7	1	6.2	45.0
1949-50 . . . . .	172	8.2	41.0	251	11.9	41.4	779	37.0	40.4
1950-51 . . . . .	264	16.3	41.4	20	1.2	38.8	1,112	68.5	40.5
1951-52 . . . . .	33	2.2	42.9	189	12.3	42.0	1,127	73.6	39.9
1952-53 . . . . .	14	1.5	44.6	218	23.2	41.2	191	20.3	39.1
1953-54 . . . . .	13	2.2	41.2	172	29.0	41.0	258	43.5	39.3
1954-55 . . . . .	2	0.4	42.5	142	28.9	41.4	-	-	-
1931/32-1954/55 . . . . .	1,792	8.5	41.3	7,258	34.4	40.8	9,711	46.0	40.4
Seasons	Area V.			All areas			The Whaling Statistics' total figures for the whales caught.		
1931/32-1937/38 . . . . .	4	-	43.0	12,654	100	40.7	12,665		
1938-39 . . . . .	24	2.7	39.8	883	100	39.6	883		
1940-41 . . . . .	-	-	-	279	100	42.4	2,675		
1946/47-1948/49 . . . . .	-	-	-	16	100	42.8	16		
1949-50 . . . . .	903	42.9	40.5	2,105	100	40.6	2,117		
1950-51 . . . . .	228	14.0	41.8	1,624	100	40.8	1,630		
1951-52 . . . . .	183	11.9	41.6	1,532	100	40.4	1,546		
1952-53 . . . . .	518	55.0	41.4	941	100	40.9	954		
1953-54 . . . . .	150	25.3	41.3	593	100	40.3	594		
1954-55 . . . . .	348	70.7	40.9	492	100	41.1	493		
1931/32-1954/55 . . . . .	2,358	11.1	41.0	21,119	100	40.7	2) 23,575		

<sup>1)</sup> Incl. 2 humpbacks, length not stated. <sup>2)</sup> 2 humpbacks caught in the season 1939/40 are included.

decreased by 0.3 ft. as compared to the results of the preceding season. The average size of fin-whales of 60 ft. and over was 67.4 ft. in 1954-55, i.e. the same as in 1953-54.

Table *k*, page 21, 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 above
Male . . . . .	74 —,—
Fin-whales: Female . . . . .	65 —,—
Male . . . . .	63 —,—
Humpbacks: Female . . . . .	41 —,—
Male . . . . .	40 —,—

During the last season 37.7 per cent of the total number of blue-whales killed were immature animals, against 36.5 per cent during the



Table m.—Number of whales killed during the seasons 1931/32—1954/55.

— 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	37,038	20.8	98,723	34.4	1,792	8.5	7,274	19.3	144,827	27.7
III	72,767	40.9	112,152	39.1	7,258	34.4	16,388	43.4	208,565	39.8
IV	54,837	30.8	47,289	16.5	9,711	46.0	9,226	24.5	121,063	23.1
V	13,366	7.5	28,894	10.0	2,358	11.1	4,833	12.8	49,451	9.4
Total	178,008	100.0	287,058	100.0	21,119	100.0	37,721	100.0	523,906	100.0

— 2 —

Species of whales	Area II		Area III		Area IV		Area V		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
Blue.....	37,038	25.6	72,767	34.9	54,837	45.3	13,366	27.0	178,008	34.0
Fin.....	98,723	68.2	112,152	53.8	47,289	39.1	28,894	58.4	287,058	54.8
Humpback.....	1,792	1.2	7,258	3.5	9,711	8.0	2,358	4.8	21,119	4.0
Sperm.....	7,274	5.0	16,388	7.8	9,226	7.6	4,833	9.8	37,721	7.2
Total.....	144,827	100.0	208,565	100.0	121,063	100.0	49,451	100.0	523,906	100.0

previous season. 27.3 per cent of the fin-whale catch consisted of immature animals against 21.9 per cent in 1953–54. One of the reasons for this increased proportion of immature fin-whales killed is the lowered minimum-length settled for fin-whales in 1954–55. Of the total number of humpbacks killed 39.4 per cent were immature against 49.1 per cent during the previous season.

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

Area I	between	70° west	and	160° west
	(where pelagic whaling is forbidden)			
Area II	between	0°	and	70° west
” III	”	0°	”	70° east
” IV	”	70° east	”	130° east
” V	”	130° east	”	160° west

Table l, page 22, gives a survey of the number and average size of blue-, fin- and humpback-whales killed in areas II, III, IV and V from 1931–32. The figures concerning the seasons 1931/32—1937/38 are added together. The same is the case in respect to the seasons 1940/41—1944/45.

Table n.—Antarctic, pelagic whaling results for the various countries 1937/38—1954/55.

Seasons	All countries			Norway			British Commonwealth			Of which						Japan		
	Number of whales killed	Oil production	Catchers employed	Number of whales killed	Oil production	Catchers employed	Number of whales killed	Oil production	Catchers employed	United Kingdom			Union of 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			
		Barrels <sup>1</sup>			Barrels			Barrels			Barrels		Barrels			Barrels		
1937-38.....	44,152	3,250,064	244	14,960 <sup>2)</sup>	1,157,993	83	15,286	1,114,865	80	12,461	921,192	64	2,825	193,673	16	5,582	388,683	30
1938-39.....	36,681	2,709,281	270	11,521 <sup>2)</sup>	842,712	90	10,541	847,127	74	9,371	746,182	65	1,170	100,945	9	7,540	483,476	49
1939-40.....	31,709	2,479,471	228	11,040	909,790	79	11,279	856,819	81	9,389	737,909	65	1,890	118,910	16	6,990	538,862	51
1945-46.....	11,474	739,775	77	6,765	501,528	44	4,709	238,247	33	4,709	238,247	33	-	-	-	-	-	-
1946-47.....	23,043	1,794,424	129	11,766	937,318	57	8,946	671,501	44	6,380	466,622	32	2,566	204,879	12	1,175	73,295	12
1947-48.....	28,369	1,940,653	162	14,678	995,115	85	10,249	697,096	49	7,291	516,040	35	2,958	181,056	14	1,324	104,912	12
1948-49.....	28,494	2,047,427	191	15,209	1,050,150	101	9,169	694,802	54	6,561	534,034	40	2,608	160,728	14	1,643	119,361	14
1949-50.....	29,017	2,019,368	216	15,556	1,048,432	119	8,478	615,997	56	6,596	470,699	41	1,882	145,298	15	2,114	168,754	16
1950-51.....	31,180	2,152,498	239	15,873	1,062,260	124	7,718	579,666	58	5,177	417,755	43	2,541	161,911	15	2,741	170,596	18
1951-52.....	32,575	2,334,805	268	14,763	1,088,085	132	8,455	632,224	61	5,961	446,262	45	2,494	185,962	16	3,831	259,476	32
1952-53.....	28,325	1,998,094	230	10,381	767,960	95	8,633	599,670	62	6,173	449,215	46	2,460	150,455	16	2,645	207,335	30
1953-54.....	31,218	2,100,884	206	13,632	963,085	100	8,571	618,409	53	6,345	471,138	40	2,226	147,271	13	4,218	252,677	26
1954-55.....	34,888	2,061,789	233	13,428	809,488	101	8,352	500,679	53	6,656	400,870	40	1,696	99,809	13	5,958	366,915	36

Seasons	Germany			Panama			United States of America			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	Number of whales killed	Oil production	Catchers employed
		Barrels			Barrels			Barrels			Barrels			Barrels	
1937-38.....	5,237	356,858	33	1,527	117,650	10	1,560	114,015	8	-	-	-	-	-	-
1938-39.....	5,066	374,149	41	907	68,853	8	1,106	92,964	8	-	-	-	-	-	-
1939-40.....	-	-	-	1,421	113,000	8	979	61,000	9	-	-	-	-	-	-
1945-46.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1946-47.....	-	-	-	-	-	-	-	-	-	770	77,310	8	386	35,000	8
1947-48.....	-	-	-	-	-	-	-	-	-	1,294	85,130	8	824	58,400	8
1948-49.....	-	-	-	-	-	-	-	-	-	1,366	109,849	10	1,107	73,335	12
1949-50.....	-	-	-	-	-	-	-	-	-	1,295	82,792	11	1,574	103,393	14
1950-51.....	-	-	-	1,497	126,522	12	-	-	-	1,660	103,560	12	1,691	109,894	15
1951-52.....	-	-	-	1,408	97,073	16	-	-	-	1,650	110,300	12	2,468	147,647	15
1952-53.....	-	-	-	2,365	164,150	16	-	-	-	1,575	103,710	12	2,726	155,269	15
1953-54.....	-	-	-	-	-	-	-	-	-	1,711	97,596	12	3,086	169,117	15
1954-55.....	-	-	-	2,512	147,880	16	-	-	-	848	64,739	12	3,290	172,088	15

<sup>1)</sup> Barrel = 170 kg. (Barrel = abt.  $\frac{1}{8}$  long ton. 1 long ton = 1,016 kg.) <sup>2)</sup> Including the catch of two Norwegian expeditions hired by Germany—in 1937-38 2,158 whales and in 1938-39 1,658 whales. <sup>3)</sup> Incl. the production of two Norwegian expeditions hired by Germany—in 1937-38 180,750 barrels and in 1938-39 118,380 barrels.

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.	
								Barrels.				
1919-20	987	1,673	79	71	8	1) <sup>1)</sup> 14	2,832	147,029	6	—	26	109
1920-21	856	2,643	103	36	31	1) <sup>1)</sup> 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) <sup>1)</sup> 1	4,186	247,963	5	—	27	155
1930-31	1,085	1,416	66	144	24	1) <sup>1)</sup> 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) <sup>1)</sup> 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	1) <sup>1)</sup> 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

1) Right-whale.

The catch of blue- and fin-whales during the seasons 1953-54 and 1954-55 is divided over the areas as follows:

Area	Blue-whales				Fin-whales			
	1953-54		1954-55		1953-54		1954-55	
	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent
Area II .	542	20.3	470	21.8	7,751	31.4	4,963	19.4
Area III .	1,569	58.8	685	31.8	11,459	46.4	13,607	53.1
Area IV .	356	13.4	310	14.4	2,195	8.9	2,790	10.9
Area V .	200	7.5	689	32.0	3,270	13.3	4,248	16.6
Total ....	2,667	100.0	2,154	100.0	24,675	100.0	25,608	100.0

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

Species of whales and seasons.	Oct.	Nov.	Dec.	Jan.	Feb.	March.	April.	May.	Total.	The Whaling Statistics' total figures.	
<i>Total animals.</i>	1938-39.....	51	240	453	332	218	343	38	—	1,675	1,675
	1946-47.....	136	468	458	580	410	456	42	—	2,550	2,550
	1947-48.....	272	440	662	657	433	378	107	—	2,949	2,949
	1948-49.....	204	359	532	668	638	436	104	—	2,941	2,941
	1949-50.....	106	344	823	951	500	512	120	—	3,356	3,379
	1950-51.....	245	346	472	432	405	707	210	—	2,817	2,817
	1951-52.....	59	550	547	488	651	222	113	—	2,630	2,662
	1952-53.....	148	441	301	539	346	425	70	—	2,270	2,328
1953-54.....	268	508	604	880	762	453	115	—	3,590	3,654	
1954-55.....	607	716	506	443	399	510	—	—	3,181	3,266	
<i>Blue-whales.</i>	1938-39.....	—	7	131	35	24	32	3	—	232	232
	1946-47.....	12	90	142	51	26	6	—	—	327	327
	1947-48.....	1	2	3	18	3	18	1	—	46	46
	1948-49.....	40	100	5	16	16	2	—	—	226	226
	1949-50.....	2	3	4	—	—	4	1	—	14	14
	1950-51.....	2	5	42	22	4	7	—	—	82	82
	1951-52.....	—	2	—	—	2	2	—	—	6	6
	1952-53.....	—	—	1	—	—	—	3	—	4	4
1953-54.....	1	1	6	4	—	1	—	—	13	13	
1954-55.....	1	—	7	2	2	1	—	—	13	13	
<i>Fin-whales.</i>	1938-39.....	51	232	318	292	189	211	14	—	1,307	1,307
	1946-47.....	122	368	298	505	189	168	20	—	1,670	1,670
	1947-48.....	265	433	631	550	112	112	39	—	2,142	2,142
	1948-49.....	151	244	468	616	223	197	23	—	1,922	1,922
	1949-50.....	90	328	791	602	93	51	22	—	1,977	1,999
	1950-51.....	234	333	421	405	156	365	68	—	1,982	1,982
	1951-52.....	58	542	527	436	314	84	16	—	1,977	2,007
	1952-53.....	144	422	293	387	194	150	25	—	1,615	1,670
1953-54.....	266	505	577	677	443	143	6	—	2,617	2,673	
1954-55.....	599	709	476	403	240	242	—	—	2,669	2,746	
<i>Hump-backs.</i>	1938-39.....	—	—	—	—	—	—	—	—	—	—
	1946-47.....	1	5	10	9	3	—	—	—	28	28
	1947-48.....	—	1	12	8	2	1	—	—	24	24
	1948-49.....	1	6	4	5	1	1	—	—	18	18
	1949-50.....	—	3	13	5	4	1	—	—	26	26
	1950-51.....	2	3	2	—	—	1	—	—	8	8
	1951-52.....	—	—	9	1	—	—	—	—	10	10
	1952-53.....	1	4	1	—	—	3	—	—	9	9
1953-54.....	—	—	2	6	1	2	—	—	11	11	
1954-55.....	—	2	—	—	—	—	—	—	2	2	
<i>Sei-whales.</i>	1938-39.....	—	—	—	—	—	13	6	—	19	19
	1946-47.....	—	—	1)	12	186	193	—	—	392	392
	1947-48.....	—	—	—	57	302	188	62	—	609	609
	1948-49.....	—	—	—	18	310	174	60	—	562	562
	1949-50.....	—	—	—	305	393	398	87	—	1,183	1,183
	1950-51.....	—	—	—	2	222	205	90	—	519	519
	1951-52.....	1	2	—	37	307	103	46	—	496	498
	1952-53.....	—	—	—	137	147	185	26	—	495	498
1953-54.....	—	—	1	177	294	213	86	—	771	778	
1954-55.....	1	—	1	29	153	232	—	—	416	423	
<i>Sperm-whales.</i>	1938-39.....	—	1	4	5	5	87	15	—	117	117
	1946-47.....	1	5	7	3	6	89	22	—	133	133
	1947-48.....	6	4	16	24	14	59	5	—	128	128
	1948-49.....	12	9	8	13	88	62	21	—	213	213
	1949-50.....	14	10	15	39	10	58	10	—	156	157
	1950-51.....	7	5	7	3	23	129	52	—	226	226
	1951-52.....	—	4	11	14	28	33	51	—	141	141
	1952-53.....	3	15	6	15	5	87	16	—	147	147
1953-54.....	1	2	18	16	24	94	23	—	178	179	
1954-55.....	6	5	22	9	4	35	—	—	81	82	

1) Right-whale.

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

Species of whales and seasons.	Oct.	Nov.	Dec.	Jan.	Feb.	March.	April.	May.	Total.	The Whaling Statistics' total figures.
<i>Total animals</i>	1938-39	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	1946-47	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	.....	.	.	.	.	.	.	.	.	.
	.....	.	.	.	.	.	.	.	.	.
<i>Blue-whales</i>	1938-39	-	2.9	28.9	10.5	11.0	9.3	7.9	13.9	13.9
	1946-47	8.8	19.2	31.0	8.8	6.3	1.3	-	12.8	12.8
	1947-48	0.4	0.5	0.5	2.7	0.7	4.8	0.9	1.6	1.6
	1948-49	19.6	27.8	9.8	2.4	2.5	0.5	-	7.7	7.7
	1949-50	1.9	0.9	0.5	-	-	0.8	-	0.4	0.4
	1950-51	0.8	1.4	8.9	5.1	1.0	1.0	-	2.9	2.9
	1951-52	-	0.4	-	-	0.3	0.9	-	0.2	0.2
	1952-53	-	-	0.3	-	-	-	4.3	0.2	0.2
	1953-54	0.4	0.2	1.0	0.5	-	0.2	-	0.4	0.4
1954-55	0.2	-	1.4	0.5	0.5	0.2	-	0.4	0.4	
<i>Fin-whales</i>	1938-39	100.0	96.7	70.2	88.0	86.7	61.5	36.8	78.0	78.0
	1946-47	89.7	78.6	65.1	87.1	46.1	36.9	47.6	65.5	65.5
	1947-48	97.4	98.4	95.3	83.7	25.9	29.6	36.5	72.6	72.6
	1948-49	74.0	68.0	88.0	92.2	34.9	45.2	22.1	65.4	65.4
	1949-50	84.9	95.3	96.1	63.3	18.6	10.0	18.4	58.9	59.2
	1950-51	95.5	96.3	89.2	93.7	38.5	51.6	32.4	70.4	70.4
	1951-52	98.3	98.5	96.4	89.3	48.2	37.8	14.2	75.2	75.4
	1952-53	97.3	95.7	97.4	71.8	56.1	35.3	35.7	71.1	71.7
	1953-54	99.2	99.4	95.5	76.9	58.1	31.6	5.2	72.9	73.1
1954-55	98.7	99.0	94.1	91.0	60.2	47.5	-	83.9	84.1	
<i>Hump-backs</i>	1938-39	-	-	-	-	-	-	-	-	-
	1946-47	0.8	1.1	2.2	1.5	0.7	-	-	1.1	1.1
	1947-48	-	0.2	1.8	1.2	0.5	0.3	-	0.8	0.8
	1948-49	0.5	1.7	0.7	0.7	0.2	0.2	-	0.6	0.6
	1949-50	-	0.9	1.6	0.5	0.8	0.2	-	0.8	0.8
	1950-51	0.8	0.9	0.4	-	-	0.1	-	0.3	0.3
	1951-52	-	-	1.6	0.2	-	-	-	0.4	0.4
	1952-53	0.7	0.9	0.3	-	-	0.7	-	0.4	0.4
	1953-54	-	-	0.3	0.7	0.1	0.4	-	0.3	0.3
1954-55	-	0.3	-	-	-	-	-	0.1	0.1	
<i>Sei-whales</i>	1938-39	-	-	-	-	-	3.8	15.8	1.1	1.1
	1946-47	-	-	0.2	2.1	45.4	42.3	-	15.4	15.4
	1947-48	-	-	-	8.7	69.7	49.7	57.9	20.7	20.7
	1948-49	-	-	-	2.7	48.6	39.9	57.7	19.1	19.1
	1949-50	-	-	-	32.1	78.6	77.7	72.5	35.3	35.0
	1950-51	-	-	-	0.5	54.8	29.0	42.8	18.4	18.4
	1951-52	1.7	0.4	-	7.6	47.2	46.4	40.7	18.9	18.7
	1952-53	-	-	-	25.4	42.5	43.5	37.1	21.8	21.4
	1953-54	-	-	0.2	20.1	38.6	47.0	74.8	21.5	21.3
1954-55	0.1	-	0.2	6.5	38.3	45.5	-	13.1	12.9	
<i>Sperm-whales</i>	1938-39	-	0.4	0.9	1.5	2.3	25.4	39.5	7.0	7.0
	1946-47	0.7	1.1	1.5	0.5	1.5	19.5	52.4	5.2	5.2
	1947-48	2.2	0.9	2.4	3.7	3.2	15.6	4.7	4.3	4.3
	1948-49	5.9	2.5	1.5	2.0	13.8	14.2	20.2	7.2	7.2
	1949-50	13.2	2.9	1.8	4.1	2.0	11.3	8.3	4.6	4.6
	1950-51	2.9	1.4	1.5	0.7	5.7	18.3	24.8	8.0	8.0
	1951-52	-	0.7	2.0	2.9	4.3	14.9	45.1	5.3	5.3
	1952-53	2.0	3.4	2.0	2.8	1.4	20.5	22.9	6.5	6.3
	1953-54	0.4	0.4	3.0	1.8	3.2	20.8	20.0	4.9	4.9
1954-55	1.0	0.7	4.3	2.0	1.0	6.8	-	2.5	2.5	

Table r.—South Georgia. Catch of immature and mature whales 1938/39 and 1946/47—1954/55.

	1938—39.		1946—47.		1947—48.		1948—49.		1949—50.		1950—51.		1951—52.		1952—53.		1953—54.		1954—55.	
	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.
<b>Blue-whales.</b>																				
Immature																				
males	44	44.9	66	45.2	6	42.9	49	50.5	6	85.7	19	45.2	2	100.0	1	100.0	1	33.3	4	66.7
females	65	48.5	53	29.3	13	40.6	51	39.5	3	42.9	16	40.0	3	75.0	2	66.7	8	80.0	7	100.0
animals	109	47.0	119	36.4	19	41.3	100	44.2	9	64.3	35	42.7	5	83.3	3	75.0	9	69.2	11	84.6
Mature																				
males	54	55.1	80	54.8	8	57.1	48	49.5	1	14.3	23	54.8	—	—	—	—	2	66.7	2	33.3
females	69	51.5	128	70.7	19	59.4	78	60.5	4	57.1	24	60.0	1	25.0	1	33.3	2	20.0	—	—
animals	123	53.0	208	63.6	27	58.7	126	55.8	5	35.7	47	57.3	1	16.7	1	25.0	4	30.8	2	15.4
<b>Fin-whales.</b>																				
Immature																				
males	188	30.7	139	19.9	300	27.3	314	31.4	353	37.3	259	30.4	319	34.6	307	38.9	660	52.5	584	47.6
females	231	33.2	140	14.4	335	32.1	277	30.0	349	33.9	357	31.6	383	36.3	323	39.1	747	54.9	605	42.0
animals	419	32.1	279	16.7	635	29.7	591	30.8	702	35.5	616	31.1	702	35.5	630	39.0	1,407	53.8	1,189	44.5
Mature																				
males	424	69.3	559	80.1	799	72.7	686	68.6	594	62.7	593	69.6	604	65.4	482	61.1	597	47.5	643	52.4
females	464	66.8	832	85.6	708	67.9	645	70.0	681	66.1	773	68.4	671	63.7	503	60.9	613	45.1	837	58.0
animals	888	67.9	1,391	83.3	1,507	70.3	1,331	69.2	1,275	64.5	1,366	68.9	1,275	64.5	985	61.0	1,210	46.2	1,480	55.5

Table s.—Antarctic whaling results for the various countries 1937/38—1954/55. Absolute and percentage figures.

Years.	All countries.		Norway.		British Commonwealth.		Of which				Japan.	
	Number of whales.	Oil production.	Number of whales.	Oil production.	Number of whales.	Oil production.	United Kingdom.		Union of South Africa.		Number of whales.	Oil production.
		Barrels. <sup>1)</sup>		Barrels. <sup>1)</sup>		Barrels. <sup>1)</sup>	Barrels. <sup>1)</sup>	Number of whales.	Oil production.	Number of whales.		Oil production.
1937-38.....	46,039	3,340,330 <sup>2)</sup>	14,960 <sup>3)</sup>	1,157,993 <sup>3)</sup>	16,111	1,153,365	13,286	959,692	2,825	193,673	5,582	388,683
1938-39.....	38,356	2,820,771 <sup>2)</sup>	11,521 <sup>3)</sup>	842,712 <sup>3)</sup>	11,192	891,791	10,022	790,846	1,170	100,945	7,540	483,476
1939-40.....	32,900	2,544,253	11,040	909,790	11,765	882,169	9,875	763,259	1,890	118,910	6,990	538,862
1940-41.....	16,363	1,100,008	2,387	203,317	3,116	229,780	3,116	229,780	-	-	9,992	622,413
1944-45.....	2,891	223,540	1,595	148,000	-	-	-	-	-	-	-	-
1945-46.....	13,387	818,652	7,246	520,873	5,059	252,751	5,059	252,751	-	-	-	-
1946-47.....	25,593	1,939,742	12,533	980,838	9,872	725,469	7,306	520,590	2,566	204,879	1,175	73,295
1947-48.....	31,318	2,104,051	15,656	1,050,831	11,406	759,813	8,448	573,757	2,958	181,056	1,324	104,912
1948-49.....	31,435	2,219,621	16,196	1,108,027	10,204	756,531	7,596	595,803	2,608	160,728	1,643	119,361
1949-50.....	32,396	2,166,489	16,799	1,106,487	9,668	663,715	7,786	518,417	1,882	145,298	2,114	168,754
1950-51.....	33,997	2,303,690	16,844	1,116,284	8,768	636,241	6,227	474,330	2,541	161,911	2,741	170,596
1951-52.....	35,237	2,479,180	15,650	1,136,643	9,432	686,216	6,938	500,254	2,494	185,962	3,831	259,476
1952-53.....	30,653	2,118,097	11,240	813,979	9,424	641,467	6,964	491,012	2,460	150,455	2,645	207,335
1953-54.....	34,872	2,285,720	14,928	1,027,807	9,846	685,045	7,620	537,774	2,226	147,271	4,218	252,677
1954-55.....	37,654	2,242,555	14,491	869,241	9,608	571,124	7,912	471,315	1,696	99,809	5,958	366,915
<i>In per cent</i>	%	%	%	%	%	%	%	%	%	%	%	%
1937-38.....	100.0	100.0	32.5	34.7	35.0	34.5	28.9	28.7	6.1	5.8	12.1	11.6
1938-39.....	100.0	100.0	30.0	29.9	29.2	31.6	26.1	28.0	3.1	3.6	19.6	17.1
1939-40.....	100.0	100.0	33.6	35.8	35.8	34.7	30.0	30.0	5.8	4.7	21.2	21.2
1940-41.....	100.0	100.0	14.6	18.5	19.0	20.9	19.0	20.9	-	-	61.1	56.6
1944-45.....	100.0	100.0	55.2	66.2	-	-	-	-	-	-	-	-
1945-46.....	100.0	100.0	54.1	63.6	37.8	30.9	37.8	30.9	-	-	-	-
1946-47.....	100.0	100.0	49.0	50.5	38.6	37.4	28.5	26.8	10.1	10.6	4.0	3.8
1947-48.....	100.0	100.0	50.0	49.9	36.4	36.1	27.0	27.5	9.4	8.6	4.2	5.0
1948-49.....	100.0	100.0	51.5	49.9	32.5	34.1	24.2	26.9	8.3	7.2	5.2	5.4
1949-50.....	100.0	100.0	51.9	51.1	29.8	30.6	24.0	23.9	5.8	6.7	6.5	7.8
1950-51.....	100.0	100.0	49.5	48.5	25.8	27.6	18.3	20.6	7.5	7.0	8.1	7.4
1951-52.....	100.0	100.0	44.4	45.8	26.8	27.7	19.7	20.2	7.1	7.5	10.9	10.5
1952-53.....	100.0	100.0	36.7	38.4	30.8	30.3	22.8	23.2	8.0	7.1	8.6	9.8
1953-54.....	100.0	100.0	42.8	45.0	28.2	30.0	21.8	23.5	6.4	6.5	12.1	11.0
1954-55.....	100.0	100.0	38.5	38.8	25.5	25.5	21.0	21.0	4.5	4.5	15.8	16.3

Years.	Argentina.		Germany.		Panama.		United States of America.		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.	Number of whales.	Oil production.	Number of whales.	Oil production.
		Barrels. <sup>1)</sup>		Barrels. <sup>1)</sup>		Barrels. <sup>4)</sup>		Barrels. <sup>1)</sup>		Barrels. <sup>1)</sup>		Barrels. <sup>1)</sup>
1937-38 . . .	1,062	51,766	5,237	6,858	1,527	117,650	1,560	114,015	-	-	-	-
1938-39 . . .	1,024	66,826	5,066	374,149	907	68,853	1,106	92,964	-	-	-	-
1939-40 . . .	705	39,432	-	-	1,421	113,000	979	61,000	-	-	-	-
1940-41 . . .	868	44,498	-	-	-	-	-	-	-	-	-	-
1944-45 . . .	1,296	75,540	-	-	-	-	-	-	-	-	-	-
1945-46 . . .	1,082	45,028	-	-	-	-	-	-	-	-	-	-
1946-47 . . .	857	47,830	-	-	-	-	-	-	770	77,310	386	35,000
1947-48 . . .	814	44,965	-	-	-	-	-	-	1,294	85,130	824	58,400
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
<i>In per cent</i>	%	%	%	%	%	%	%	%	%	%	%	%
1937-38 . . .	2.3	1.6	11.4	10.7	3.3	3.5	3.4	3.4	-	-	-	-
1938-39 . . .	2.7	2.4	13.2	13.3	2.4	2.4	2.9	3.3	-	-	-	-
1939-40 . . .	2.1	1.5	-	-	4.3	4.4	3.0	2.4	-	-	-	-
1940-41 . . .	5.3	4.0	-	-	-	-	-	-	-	-	-	-
1944-45 . . .	44.8	33.8	-	-	-	-	-	-	-	-	-	-
1945-46 . . .	8.1	5.5	-	-	-	-	-	-	-	-	-	-
1946-47 . . .	3.3	2.5	-	-	-	-	-	-	3.0	4.0	1.5	1.8
1947-48 . . .	2.6	2.1	-	-	-	-	-	-	4.2	4.1	2.6	2.8
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

<sup>1)</sup> Barrel = 170 kg. (Barrel = abt. 1/2 long ton. 1 long ton = 1,016 kg.) <sup>2)</sup> Including the catch of two Norwegian expeditions hired by Germany—in 1937-38 2,158 whales and in 1938-39 1,658 whales. <sup>3)</sup> Including the production of two Norwegian expeditions hired by Germany—in 1937-38 180,750 barrels and in 1938-39 118,380 barrels.



Table t.—Average production of oil per blue-whale unit.<sup>1)</sup>

Years.	South Georgia.	Pelagic whaling.	Years.	South Georgia.	Pelagic whaling.
	Barrels <sup>2)</sup>	Barrels <sup>2)</sup>		Barrels	Barrels
1924-25.....	87.5	85.0	1940-41.....	109.1	105.8
1925-26.....	84.0	84.8	1941-42.....	110.1	—
1926-27.....	96.4	91.1	1942-43.....	95.2	—
1927-28.....	106.4	92.8	1943-44.....	120.2	142.9
1928-29.....	108.2	98.3	1944-45.....	111.5	118.0
1929-30.....	110.7	109.6	1945-46.....	83.1	98.6
1930-31.....	100.1	105.6	1946-47.....	112.5	113.1
1931-32.....	92.9	102.6	1947-48.....	128.3	111.2
1932-33.....	86.5	114.6	1948-49.....	126.5	115.9
1933-34.....	91.8	111.9	1949-50.....	115.0	118.6
1934-35.....	105.1	102.2	1950-51.....	121.5	117.3
1935-36.....	95.5	101.6	1951-52.....	127.6	129.4
1936-37.....	104.5	111.7	1952-53.....	126.3	128.0
1937-38.....	95.7	111.1	1953-54.....	121.1	128.6
1938-39.....	117.6	107.1	1954-55.....	124.6	117.3
1939-40.....	106.1	117.2			

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

During the season 1954-55 the largest number of blue-whales was killed in area V, where 32.0 per cent of all blue-whales were taken. 31.8 per cent of the blue-whales were killed in area III. Of the fin-whale catch 53.1 per cent were taken in area III. 53.6 per cent of the blue-whales and 72.5 per cent of the fin-whales were taken in areas II and III during the last season. The corresponding figures for these areas during the preceding season were 79.1 per cent and 77.8 per cent. The whaling activity has thus been somewhat greater in areas IV and V during the season 1954-55.

The humpback catch in 1953-54 and 1954-55 was divided over the individual areas as follows:

	1953-54	1954-55
Area II.....	2.2 per cent	0.4 per cent
.. III.....	29.0 „ „	28.9 „ „
.. IV.....	43.5 „ „	—
.. V.....	25.3 „ „	70.7 „ „

Table *m*, page 24, contains a summary of the aggregate catch of blue-, fin-, humpback- and sperm-whales in the individual areas throughout the entire period 1931/32—1954/55. During this period 40.9 per cent of the blue-whales, 39.1 per cent of the fin-whales and 43.4 per cent of the sperm-whales killed have been taken in area III. The largest number of humpbacks has been killed in area IV, viz. 46.0 per cent.

During the period 1931/32—1954/55 a total number of 523,906 whales have been killed, of which

39.8	per cent in area III
27.7	” ” ” ” II
23.1	” ” ” ” IV
9.4	” ” ” ” V

In the survey below the percentage proportion of the catch, specified by species for each area, in respect to the above mentioned period is compared with the corresponding figures for the season 1954–55.

Species of whales	Area II		Area III		Area IV		Area V	
	31/32— 54/55	54/55	31/32— 54/55	54/55	31/32— 54/55	54/55	31/32— 54/55	54/55
Blue-whales . . . . .	25.6	7.1	34.9	4.0	45.3	7.3	27.0	11.6
Fin-whales . . . . .	68.2	75.0	53.8	79.6	39.1	66.0	58.4	71.3
Humpbacks . . . . .	1.2	—	3.5	0.8	8.0	—	4.8	5.8
Sperm-whales . . . . .	5.0	17.9	7.8	15.6	7.6	26.7	9.8	11.3
<b>Total . . . . .</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

Table *n*, page 25, gives a survey of the pelagic whaling results of the individual participating countries as from 1937–38 (excl. the war seasons) regarding the number of whales killed, oil production and number of catchers employed in each season.

### South Georgia.

The whaling results of the shore stations operating from South Georgia are given in table *o*, page 26, for each season since 1919–20. From and including the season 1945–46 3 shore stations have carried on whaling and from and including 1947–48 these shore stations have employed 21 catchers. During the season 1954–55 the total number of whales killed amounted to 3,266, from which were produced 176,612 barrels of whale-oil and 4,154 barrels of sperm-oil, or a total oil production of 180,766 barrels. During the season 1953–54 the output was 176,159 barrels of whale-oil and 8,677 barrels of sperm-oil.

Tables *p* and *q*, pages 27 and 28, give the catch off South Georgia by months in absolute and percentage figures from and including 1938–39, and table *r*, page 29, shows the proportion of mature and immature animals killed.

Table u.—Average weekly production of whale-oil per blue-whale unit in the pelagic whaling 1953-54 and 1954-55.

Season 1953-54.				Season 1954-55.			
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.
2/1 1954	11,704	290.5	40.3	8/1 1955	49,327	710.5	69.4
9/1 "	194,750	1,717.5	113.4	15/1 "	141,761	1,284.0	110.4
16/1 "	166,434	1,461.7	113.9	22/1 "	217,641	2,118.7	102.7
23/1 "	169,009	1,412.1	119.7	29/1 "	186,035	1,631.5	114.0
30/1 "	149,287	1,271.6	117.4	5/2 "	183,998	1,492.0	123.3
6/2 "	178,027	1,514.6	117.5	12/2 "	159,500	1,366.9	116.7
13/2 "	164,579	1,186.0	138.8	19/2 "	186,833	1,567.8	119.2
20/2 "	220,784	1,537.6	143.6	26/2 "	171,253	1,421.4	120.5
27/2 "	172,439	1,360.1	126.8	5/3 "	193,908	1,487.8	130.3
6/3 "	186,744	1,357.3	137.6	12/3 "	142,503	1,043.2	136.6
13/3 "	233,843	1,433.7	163.1	19/3 "	142,729	1,055.9	135.2
13/3 "	114,824	741.7	154.8				
Total	1,962,424	15,284.4	128.4	Total	1,775,488	15,179.7	117.0

In table s, page 30, the total whaling results in the Antarctic from 1937-38 up to and including 1954-55 have been distributed in respect to the individual participating countries. The percentage proportion of the oil production of the individual countries during the 4 last seasons was as follows:

	Season 1951-52	Season 1952-53	Season 1953-54	Season 1954-55
Norway . . . . .	45.8 per cent	38.4 per cent	45.0 per cent	38.8 per cent
British Commonwealth	27.7 " "	30.3 " "	30.0 " "	25.5 " "
Japan . . . . .	10.5 " "	9.8 " "	11.0 " "	16.3 " "
U.S.S.R. . . . .	6.0 " "	7.3 " "	7.4 " "	7.7 " "
Panama . . . . .	3.9 " "	7.8 " "	—	6.6 " "
Netherlands ..	4.4 " "	4.9 " "	4.3 " "	2.9 " "
Argentina . . . .	1.7 " "	1.5 " "	2.3 " "	2.2 " "

Table t, page 32, records the average output of whale-oil per blue-whale unit for South Georgia and for the pelagic expeditions from 1924-25. For the shore stations on South Georgia the average yield of oil per blue-whale unit was 124.6 barrels in 1954-55, against 121.1 barrels in 1953-54. For the pelagic expeditions the average output was 117.3 barrels during the season 1954-55. During the 3 preceding seasons the average yield was as follows:

Season	Average yield per blue-whale unit barrels
1951-52 . . . . .	129.4
1952-53 . . . . .	128.0
1953-54 . . . . .	128.6

Table v.—Production of by-products in the Antarctic whaling in the seasons  
1945/46—1954/55.

Seasons Countries	By-products	Whale	Blue-, sei-,	Liver-	Liver	Meat	Whale meat,	Whale	Other
		meat-meal, bone-meal, grax meal, guano, dehydrated whale meat	and sperm- whale liver or liver flakes, salted or frozen	oil, vitamin oil	meal	extract, liver extract	blubber, ventral grooves. Frozen, salted, or canned		
		Long tons	L. tons	L. tons	L. tons	L. tons	L. tons	L. tons	L. tons
1945-46 . . . . . Total		13,191	575	6	38	—	—	—	16
1946-47 . . . . . Total		19,302	671	79	380	104	21,914	—	33
1947-48 . . . . . Total		24,460	918	112	495	138	30,062	—	1,231
1948-49 . . . . . Total		26,792	1,173	166	596	88	39,635	—	2,127
1949-50 . . . . . Total		25,852	817	250	573	97	46,824	779	1,532
1950-51.									
Norway . . . . .		4,622	392	120	56	—	—	1,040	—
United Kingdom . .		13,134	6	84	566	44	—	1,404	22
Union of S. Africa .		3,120	218	—	—	—	—	—	—
Netherlands . . . . .		—	—	7	—	—	—	—	—
U.S.S.R. . . . .		1,102	225	—	—	—	—	—	—
Japan . . . . .		—	—	28	—	—	23,389	—	924
Argentina . . . . .		3,843	—	—	—	—	—	—	—
Panama . . . . .		—	—	1) 25	—	—	—	—	—
Total		25,821	841	264	622	44	23,389	2,444	946
1951-52.									
Norway . . . . .		3,879	415	84	46	—	—	659	—
United Kingdom . .		12,351	—	56	389	53	2,635	5,101	32
Union of S. Africa .		2,986	147	—	—	—	—	—	—
Netherlands . . . . .		—	—	12	—	—	—	—	6
U.S.S.R. . . . .		1,230	261	—	—	—	—	—	—
Japan . . . . .		—	—	43	—	—	25,664	—	769
Argentina . . . . .		3,670	—	—	—	—	—	—	14
Panama . . . . .		—	—	—	—	—	—	—	—
Total		24,116	823	195	435	53	28,299	5,760	821
1952-53.									
Norway . . . . .		2,961	128	41	54	—	64	—	—
United Kingdom . .		15,051	—	57	402	134	4,668	5,390	25
Union of S. Africa .		3,009	193	—	—	—	—	—	—
Netherlands . . . . .		—	—	16	—	—	—	—	—
U.S.S.R. . . . .		1,417	280	—	—	—	—	—	—
Japan . . . . .		—	—	41	—	—	23,849	—	24
Argentina . . . . .		3,146	—	—	—	—	—	—	8
Panama . . . . .		—	—	—	—	—	—	—	—
Total		25,584	601	155	456	134	28,581	5,390	57
1953-54.									
Norway . . . . .		5,489	74	88	—	—	65	711	16
United Kingdom . .		20,177	—	51	385	286	5,598	9,174	17
Union of S. Africa .		3,203	111	—	—	—	—	—	—
Netherlands . . . . .		—	—	—	—	—	—	—	—
U.S.S.R. . . . .		1,629	—	—	—	—	—	—	409
Japan . . . . .		—	—	60	—	—	29,129	—	1,337
Argentina . . . . .		5,162	—	—	—	—	—	—	7
Total		35,660	185	199	385	286	34,792	9,885	1,786
1954-55.									
Norway . . . . .		5,413	113	84	—	69	73	949	29
United Kingdom . .		20,804	—	28	115	390	5,660	7,559	21
Union of S. Africa .		2,809	—	25	—	—	—	—	—
Netherlands . . . . .		—	5	8	—	—	65	—	29
U.S.S.R. . . . .		1,919	551	—	—	—	502	—	3
Panama . . . . .		—	—	4	—	—	—	—	—
Japan . . . . .		—	—	69	—	—	36,381	—	3,412
Argentina . . . . .		4,574	—	—	—	—	—	—	3
Total		35,519	669	218	115	459	42,681	8,508	3,497

<sup>1)</sup> Calculated. <sup>2)</sup> Products such as: Sinews, teeth, baleen, ambergris, pancreas, processed bone, bone fertilizer, protein, whale meat cakes, liver paste, whale hypophyses, internal organs.

It appears that the average yield in 1954-55 was 11-12 barrels less per blue-whale unit than the output during the 3 preceding seasons. The increased output during the seasons 1951/52-1953/54 as compared with the previous seasons (see table *t*) is probably due to the postponed opening of the baleen whale season and to the raising of the minimum length limit of fin-whales in 1951-52 from 55 to 60 ft. In 1954-55 the opening day was further postponed 5 days, a postponement which might suggest a still higher output of oil. On the other hand the minimum length limit of fin-whales was lowered from 60 to 57 ft. This may have reduced the output to some extent. Another reason for the reduced output is probably the fact that the whales have been exceptionally emaciated as compared with previous seasons.

Table *u*, page 34, is recording the average *weekly* production per blue-whale unit for the pelagic expeditions during the last two seasons.

It will appear from the table that the average weekly yield per blue-whale unit was lower throughout the last season as compared with the preceding season.

In table *v*, page 35, detailed information is given on the production of by-products in the Antarctic whaling. These data cover the post-war years 1945/46-1954/55, from and including 1950-51 distributed in respect to the individual countries.

During the season 1954-55 14,282 men were employed in the Antarctic whaling industry. Of these 7,279 were Norwegians, 3,795 Japanese, 1,239 British, 754 Russians and 1,215 of other nationalities.

# TABLES

ANTARCTIC SEASON 1954/55



Table No. 1.—Whaling in the Antarctic in the season 1954/55.

Geographical areas.	Species of whales caught.						Oil production.	Expeditions.		
	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Total of whales.		Shore stations.	Floating factories.	Catchers.
South Georgia . . . . .	13	2,746	2	423	82	3,266	180,766	3	—	21
Antarctic, pelagic whaling . . . . .	2,163	25,878	493	146	5,708	34,388	2,061,789	—	19	233
Total	2,176	28,624	495	569	5,790	37,654	2,242,555	3	19	254

<sup>1)</sup> Barrel = 170 kg. (Barrel = abt.  $\frac{1}{4}$  long ton, 1 long ton = 1,016 kg.)

Table No. 2.—Whaling results for the various countries in the Antarctic in the season 1954/55.

Countries. Geographical areas.	Species of whales caught.						Oil production.	Expeditions.		
	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Total of whales.		Shore stations.	Floating factories.	Catchers.
Norway:—							Barrels <sup>1)</sup>			
South Georgia . . .	4	907	—	129	23	1,063	59,753	1	—	7
Antarctic, pelagic	630	9,902	19	36	2,841	13,428	809,488	—	9	101
British Commonwealth:—										
South Georgia . . .	5	1,081	2	147	21	1,256	70,445	1	—	7
Antarctic, pelagic	514	6,296	10	4	1,528	8,352	500,679	—	4	53
Of which:—										
United Kingdom:—										
South Georgia . . .	5	1,081	2	147	21	1,256	70,445	1	—	7
Antarctic, pel. . .	337	5,118	1	4	1,196	6,656	400,870	—	3	40
Union of S. Africa:—										
Antarctic, pel. . .	177	1,178	9	—	332	1,696	99,809	—	1	13
Japan:—										
Antarctic, pelagic	592	4,220	179	—	967	5,958	366,915	—	3	36
U.S.S.R.:—										
Antarctic, pelagic	37	2,837	115	100	201	3,290	172,088	—	1	15
Panama:—										
Antarctic, pelagic	274	2,022	170	3	43	2,512	147,880	—	1	16
The Netherlands:—										
Antarctic, pelagic	116	601	—	3	128	848	64,739	—	1	12
Argentina:—										
South Georgia . . .	4	758	—	147	38	947	50,568	1	—	7
Total	2,176	28,624	495	569	5,790	37,654	2,242,555	3	19	254

<sup>1)</sup> Barrel = 170 kg. (Barrel = abt.  $\frac{1}{4}$  long ton, 1 long ton = 1,016 kg.)



**Table No. 3.—Average size of whales caught in the Antarctic in the season 1954/55.**

Geographical areas. Number of whales measured.	Company.	Average size.		
		Males.	Females.	Total animals.
<b>Blue-whales.</b>				
<i>South Georgia</i> .....	No. 1	Engl. feet.	Engl. feet.	Engl. feet.
Males 6 } Total 13.	" 2	81.00	70.00	75.50
Females 7 }	" 3	72.00	73.67	73.00
Average		70.50	70.50	70.50
		74.50	71.71	73.00
<i>Antarctic, pelagic whaling</i> .....	No. 1	77.80	83.61	81.16
Males 1,000 } Total 2,154.	" 2	78.04	81.88	80.15
Females 1,154 }	" 3	78.18	81.93	80.12
	" 4	76.88	83.13	80.00
	" 5	77.00	82.14	79.79
	" 6	76.04	80.98	79.13
	" 7	76.41	80.84	78.70
	" 8	76.85	79.78	78.37
	" 9	75.77	79.95	78.25
	" 10	76.47	79.19	78.01
	" 11	74.67	79.69	77.55
	" 12	75.66	78.58	77.12
	" 13	74.55	78.00	76.57
	" 14	74.88	77.73	76.26
	" 15	73.98	77.57	75.81
	" 16	74.47	75.27	74.95
	" 17	71.17	77.76	74.72
	" 18	73.12	76.58	74.55
	" 19	70.93	75.55	72.96
Average		75.70	79.54	77.76
<b>Fin-whales.</b>				
<i>South Georgia</i> .....	No. 1	63.03	66.81	65.05
Males 1,227 } Total 2,669.	" 2	62.95	66.13	64.69
Females 1,442 }	" 3	62.83	65.73	64.39
Average		62.95	66.28	64.75
<i>Antarctic, pelagic whaling</i> .....	No. 1	66.12	70.87	68.93
Males 12,706 } Total 25,608.	" 2	66.05	70.23	68.06
Females 12,902 }	" 3	65.34	69.62	67.50
	" 4	65.81	68.61	67.29
	" 5	65.35	68.85	67.12
	" 6	65.59	68.41	67.03
	" 7	65.54	67.97	66.74
	" 8	65.44	68.05	66.71
	" 9	65.64	67.88	66.68
	" 10	65.19	67.65	66.46
	" 11	64.91	67.74	66.29
	" 12	64.86	67.59	66.25
	" 13	64.68	67.71	66.24
	" 14	64.64	67.66	66.12
	" 15	64.45	67.59	66.07
	" 16	64.88	67.16	66.04
	" 17	63.95	67.75	65.96
	" 18	64.22	67.21	65.83
	" 19	64.69	66.97	65.79
Average		65.07	67.97	66.53

Table No 3. (continued).

Geographical areas. Number of whales measured.	Company.	Average size.		
		Males.	Females.	Total animals.
		Engl. feet	Engl. feet	Engl. feet
<b><u>Humpbacks.</u></b>				
<i>South Georgia</i> .....	No. 1		40.00	40.00
Females 2.				
<i>Antarctic, pelagic whaling</i> .....	No. 1	—	47.00	47.00
Males 200 } Total 492.	" 2	—	43.60	43.60
Females 292 }	" 3	41.00	43.83	43.00
	" 4	41.26	43.47	42.71
	" 5	39.79	42.59	41.61
	" 6	41.00	41.77	41.32
	" 7	40.00	41.13	40.75
	" 8	38.34	40.59	39.77
	" 9	38.00	—	38.00
	" 10	38.00	—	38.00
Average		39.90	41.84	41.05
<b><u>Sei-whales.</u></b>				
<i>South Georgia</i> .....	No. 1	48.72	51.81	50.49
Males 177 } Total 416.	" 2	48.31	51.12	50.01
Females 239 }	" 3	48.11	50.65	49.51
Average		48.38	51.20	50.00
<i>Antarctic, pelagic whaling</i> .....	No. 1	—	54.00	54.00
Males 69 } Total 145.	" 2	—	53.50	53.50
Females 76 }	" 3	53.00	—	53.00
	" 4	51.00	52.50	52.36
	" 5	50.00	52.55	52.00
	" 6	—	51.00	51.00
	" 7	52.00	49.50	50.33
	" 8	46.00	52.00	50.00
	" 9	48.00	50.67	50.00
	" 10	50.00	—	50.00
	" 11	46.00	—	46.00
	" 12	44.10	44.37	44.21
Average		44.90	47.92	46.48
<b><u>Sperm-whales.</u></b>				
<i>South Georgia</i> .....	No. 1	49.65	—	49.65
Males 81	" 2	48.83	—	48.83
	" 3	48.16	—	48.16
Average		48.72	—	48.72

Table No. 3. (continued).

Geographical areas. Number of whales measured.	Company.	Average size.		
		Males.	Females.	Total animals.
<i>Antarctic, pelagic whaling</i> ..... Males 5,662.	No. 1	Engl. feet 50.22	Engl. feet —	Engl. feet 50.22
	" 2	50.15	—	50.15
	" 3	49.77	—	49.77
	" 4	49.47	—	49.47
	" 5	49.42	—	49.42
	" 6	49.09	—	49.09
	" 7	49.04	—	49.04
	" 8	48.87	—	48.87
	" 9	48.68	—	48.68
	" 10	48.66	—	48.66
	" 11	48.57	—	48.57
	" 12	48.50	—	48.50
	" 13	48.46	—	48.46
	" 14	48.42	—	48.42
	" 15	48.23	—	48.23
	" 16	47.96	—	47.96
	" 17	47.89	—	47.89
	" 18	47.41	—	47.41
Average		48.91	—	48.91

Table No. 4.—Whales caught in the Antarctic in the season 1954/55, 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.	
61	1	—	1	82	44	36	80
62	1	—	1	83	35	37	72
63	2	2	4	84	24	68	92
64	6	2	8	85	13	49	62
65	4	3	7	86	7	71	78
66	8	10	18	87	3	61	64
67	7	5	12	88	2	48	50
68	8	13	21	89	—	29	29
69	5	2	7	90	1	48	49
70	101	70	171	91	—	20	20
71	78	64	142	92	—	10	10
72	72	69	141	93	—	4	4
73	85	54	139	94	—	2	2
74	57	42	99	95	—	2	2
75	72	66	138	Sum	1,006	1,161	2,167
76	68	44	112	Average size			Males: 75.69 feet
77	65	62	127				Females: 79.49 "
78	66	40	106				Total animals: 77.73 "
79	54	40	94	Per cent			Males: 46.42
80	76	42	118				Females: 53.58
81	41	46	87				

Table No. 4 (continued).

## Fin-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
49	-	2	2	70	853	1,039	1,892
50	2	9	11	71	412	904	1,316
51	7	1	8	72	222	1,012	1,234
52	4	14	18	73	108	1,028	1,136
53	22	23	45	74	46	848	894
54	47	55	102	75	14	668	682
55	58	58	116	76	6	453	459
56	51	39	90	77	4	253	257
57	408	329	737	78	1	131	132
58	434	339	773	79	-	64	64
59	451	389	840	80	-	16	16
60	850	611	1,461	81	-	6	6
61	707	556	1,263	82	-	4	4
62	891	633	1,524	84	-	1	1
63	925	562	1,487	Sum	13,933	14,344	28,277
64	1,045	630	1,675	Average size {			Males: 64.88 feet
65	1,313	794	2,107	{			Females: 67.80 "
66	1,290	658	1,948	{			Total animals: 66.36 "
67	1,415	738	2,153	Per cent {			Males: 49.27
68	1,360	748	2,108	{			Females: 50.73
69	987	729	1,716				

## Humpbacks.

32	1	1	2	46	-	16	16
33	1	-	1	47	1	17	18
34	2	1	3	48	2	11	13
35	14	5	19	49	1	1	2
36	8	8	16	50	-	1	1
37	17	19	36	51	-	1	1
38	23	16	39	Sum	200	294	494
39	21	33	54	Average size {			Males: 39.90 feet
40	32	25	57	{			Females: 41.83 "
41	19	28	47	{			Total animals: 41.05 "
42	24	34	58	Per cent {			Males: 40.49
43	16	30	46	{			Females: 59.51
44	11	23	34				
45	7	24	31				

## Sei-whales.

37	1	-	1	52	9	41	50
39	-	1	1	53	1	45	46
40	2	1	3	54	1	33	34
41	6	7	13	55	-	20	20
42	11	7	18	56	-	7	7
43	10	7	17	57	-	1	1
44	7	6	13	Sum	246	315	561
45	16	9	25	Average size {			Males: 47.40 feet
46	32	11	43	{			Females: 50.41 "
47	26	13	39	{			Total animals: 49.09 "
48	33	16	49	Per cent {			Males: 43.85
49	36	18	54	{			Females: 56.15
50	44	39	83				
51	11	33	44				

Table No. 4 (continued).

## Sperm-whales.

Engl. feet.	Number of males.	Engl. feet.	Number of males.
34	1	50	876
38	7	51	668
39	7	52	521
40	22	53	318
41	31	54	155
42	75	55	81
43	121	56	30
44	178	57	8
45	323	Sum	5,743
46	438	Average size:	
47	556	Males: 48.91 feet.	
48	641		
49	686		

## a. South Georgia.

## Blue-whales.

Engl. feet.	Number of		Total animals.	Average size	Per cent
	males.	females.			
70	1	4	5	Males: 74.50 feet Females: 71.71 " Total animals: 73.00 "	Males: 46.15 Females: 53.85
71	2	1	3		
73	1	-	1		
75	1	1	2		
76	-	1	1		
87	1	-	1		
Sum	6	7	13		

## Fin-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
53	2	1	3	71	25	67	92
54	5	3	8	72	4	75	79
55	3	2	5	73	5	81	86
56	2	1	3	74	3	63	66
57	100	67	167	75	-	50	50
58	60	52	112	76	-	33	33
59	49	56	105	77	-	20	20
60	151	112	263	78	-	3	3
61	107	82	189	79	-	4	4
62	105	83	188	80	-	2	2
63	99	77	176	81	-	1	1
64	121	69	190	Sum	1,227	1,442	2,669
65	115	76	191	Average size			Males: 62.95 feet
66	70	67	137				Females: 66.28 "
67	73	58	131				Total animals: 64.75 "
68	66	87	153	Per cent			Males: 45.97
69	29	60	89				Females: 54.03
70	33	90	123				

Table No. 4 (continued).

## Humpbacks.

Engl. feet.	Number of		Total animals.
	males.	females.	
35	-	1	1
45	-	1	1
Sum	-	2	2

Average size: Females: 40.00 feet

## Sei-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
40	1	1	2	53	-	37	37
41	1	2	3	54	1	30	31
42	2	1	3	55	-	17	17
43	3	1	4	56	-	5	5
44	-	1	1	57	-	1	1
45	6	5	11	Sum	177	239	416
46	18	7	25	Average size { Males: 48.38 feet Females: 51.20 " Total animals: 50.00 " Per cent { Males: 42.55 Females: 57.45			
47	20	9	29				
48	32	11	43				
49	33	15	48				
50	43	32	75				
51	10	29	39				
52	7	35	42				

## Sperm-whales.

Engl. feet.	Number of males.	Engl. feet.	Number of males.
42	1	50	9
43	4	51	7
44	3	52	8
45	5	53	8
46	8	54	2
47	11	55	1
48	6		
49	8	Sum	81

Average size: Males: 48.72 feet.

Table No. 4 (continued).

## b. Antarctic, pelagic whaling.

## Blue-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
61	1	-	1	83	35	37	72
62	1	-	1	84	24	68	92
63	2	2	4	85	13	49	62
64	6	2	8	86	7	71	78
65	4	3	7	87	2	61	63
66	8	10	18	88	2	48	50
67	7	5	12	89	-	29	29
68	8	13	21	90	1	48	49
69	5	2	7	91	-	20	20
70	100	66	166	92	-	10	10
71	76	63	139	93	-	4	4
72	72	69	141	94	-	2	2
73	84	54	138	95	-	2	2
74	57	42	99				
75	71	65	136	Sum	1,000	1,154	2,154
76	68	43	111				
77	65	62	127				
78	66	40	106	Average size	{ Males: 75.70 feet Females: 79.54 " Total animals: 77.76 "		
79	54	40	94	Per cent	{ Males: 46.43 Females: 53.57		
80	76	42	118				
81	41	46	87				
82	44	36	80				

## Fin-whales.

49	-	2	2	71	387	837	1,224
50	2	9	11	72	218	937	1,155
51	7	1	8	73	103	947	1,050
52	4	14	18	74	43	785	828
53	20	22	42	75	14	618	632
54	42	52	94	76	6	420	426
55	55	56	111	77	4	233	237
56	49	38	87	78	1	128	129
57	308	262	570	79	-	60	60
58	374	287	661	80	-	14	14
59	402	333	735	81	-	5	5
60	699	499	1,198	82	-	4	4
61	600	474	1,074	84	-	1	1
62	786	550	1,336	Sum	12,706	12,902	25,608
63	826	485	1,311				
64	924	561	1,485	Average size	{ Males: 65.07 feet Females: 67.97 " Total animals: 66.53 "		
65	1,198	718	1,916	Per cent	{ Males: 49.62 Females: 50.38		
66	1,220	591	1,811				
67	1,342	680	2,022				
68	1,294	661	1,955				
69	958	669	1,627				
70	820	949	1,769				

Table No. 4 (continued).

## Humpbacks.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
32	1	1	2	46	-	16	16
33	1	-	1	47	1	17	18
34	2	1	3	48	2	11	13
35	14	4	18	49	1	1	2
36	8	8	16	50	-	1	1
37	17	19	36	51	-	1	1
38	23	16	39	Sum	200	292	492
39	21	33	54	Average size { Males: 39.90 feet.			
40	32	25	57	{ Females: 41.84 "			
41	19	28	47	{ Total animals: 41.05 "			
42	24	34	58	Per cent { Males: 40.65			
43	16	30	46	{ Females: 59.35			
44	11	23	34				
45	7	23	30				

## Sei-whales.

37	1	-	1	52	2	6	8
38	-	-	-	53	1	8	9
39	-	1	1	54	-	3	3
40	1	-	1	55	-	3	3
41	5	5	10	56	-	2	2
42	9	6	15	Sum	69	76	145
43	7	6	13	Average size { Males: 44.90 feet.			
44	7	5	12	{ Females: 47.92 "			
45	10	4	14	{ Total animals: 46.48 "			
46	14	4	18	Per cent { Males: 47.59			
47	6	4	10	{ Females: 52.41			
48	1	5	6				
49	3	3	6				
50	1	7	8				
51	1	4	5				

## Sperm-whales.

Engl. feet.	Number of males.	Engl. feet.	Number of males.
34	1	50	867
38	7	51	661
39	7	52	513
40	22	53	310
41	31	54	153
42	74	55	80
43	117	56	30
44	175	57	8
45	318	Sum	5,662
46	430	Average size:	
47	545	Males: 48.91 feet.	
48	635		
49	678		



**Table No. 5.—Whales caught in the Antarctic in the season 1954/55,  
by species, sex and groups of size.**

**Total Antarctic.**

**Blue-whales.**

	Number of whales.	Per cent.
Group 1. (70 feet and less).....	250	11.54
" 2. (71 feet to and incl. 85 feet) .....	1,609	74.25
" 3. (above 85 feet).....	308	14.21
	2,167	100.00
Immature males .....	378	37.57
" females .....	446	38.42
" animals .....	824	38.02
Mature males .....	628	62.43
" females .....	715	61.58
" animals .....	1,343	61.98

**Fin-whales.**

	Number of whales.	Per cent.
Group 1. (55 feet and less) .....	302	1.07
" 2. (56 feet to and incl. 65 feet).....	11,957	42.28
" 3. (above 65 feet).....	16,018	56.65
	28,277	100.00
Immature males .....	3,932	28.22
" females .....	4,250	29.63
" animals.....	8,182	28.94
Mature males .....	10,001	71.78
" females.....	10,094	70.37
" animals .....	20,095	71.06

**a. South Georgia.**

**Blue-whales.**

	Number of whales.	Per cent.
Group 1. (70 feet and less).....	5	38.46
" 2. (71 feet to and incl. 85 feet).....	7	53.85
" 3. (above 85 feet).....	1	7.69
	13	100.00
Immature males.....	4	66.67
" females .....	7	100.00
" animals.....	11	84.62
Mature males .....	2	33.33
" females .....	—	—
" animals .....	2	15.38

Table No. 5 (continued).

**Fin-whales.**

	Number of whales.	Per cent.
Group 1. (55 feet and less) .....	16	0.60
„ 2. (56 feet to and incl. 65 feet) .....	1,584	59.35
„ 3. (above 65 feet) .....	1,069	40.05
	2,669	100.00
Immature males .....	584	47.60
„ females .....	605	41.96
„ animals .....	1,189	44.55
Mature males .....	643	52.40
„ females .....	837	58.04
„ animals .....	1,480	55.45

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

	Number of whales.	Per cent.
Group 1. (70 feet and less) .....	245	11.38
„ 2. (71 feet to and incl. 85 feet) .....	1,602	74.37
„ 3. (above 85 feet) .....	307	14.25
	2,154	100.00
Immature males .....	374	37.40
„ females .....	439	38.04
„ animals .....	813	37.74
Mature males .....	626	62.60
„ females .....	715	61.96
„ animals .....	1,341	62.26

**Fin-whales.**

	Number of whales.	Per cent.
Group 1. (55 feet and less) .....	286	1.12
„ 2. (56 feet to and incl. 65 feet) .....	10,373	40.50
„ 3. (above 65 feet) .....	14,949	58.38
	25,608	100.00
Immature males .....	3,348	26.35
„ females .....	3,645	28.25
„ animals .....	6,993	27.31
Mature males .....	9,358	73.65
„ females .....	9,257	71.75
„ animals .....	18,615	72.69

**Table No. 6.—Average production of oil per blue-whale unit in the Antarctic in the season 1954/55.**

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. <sup>1)</sup>	Oil production.	
			Total.	Per blue-whale unit.
<i>South Georgia</i> .....	No. 1	461.5	58,425	126.6
	" 2	554.5	69,369	125.1
	" 3	401.7	48,818	121.5
	Average	—	—	124.6
<i>Antarctic, pelagic whaling</i> .....	No. 1	541.7	88,742	163.8
	" 2	413.5	58,335	141.1
	" 3	603.8	84,105	139.3
	" 4	469.5	64,668	137.7
	" 5	661.3	85,658	129.5
	" 6	366.1	47,403	129.5
	" 7	1,027.5	124,110	120.8
	" 8	375.9	45,052	119.9
	" 9	750.1	86,917	115.9
	" 10	946.8	107,289	113.3
	" 11	798.2	90,096	112.9
	" 12	711.9	79,828	112.1
	" 13	1,089.7	121,882	111.8
	" 14	785.0	87,360	111.3
	" 15	1,362.6	149,013	109.4
	" 16	763.1	82,831	108.5
	" 17	1,345.5	145,690	108.3
	" 18	1,514.7	162,059	107.0
	" 19	652.0	69,029	105.9
Average	—	—	117.3	

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

**Table No. 7.—Size of pregnant whale females caught in the Antarctic in the season 1954/55.**

**Blue-whale females.**

Length of mothers.	Number of pregnant animals.	Length of mothers.	Number of pregnant animals.	Number of foetuses measured ..... 399 of which twin pairs..... 7
Engl. feet.		Engl. feet.		
70	2	83	23	Total number of blue-whale females measured 1,161, of which pregnant animals 392, or 33.76 per cent.  Total number of mature blue-whale females (above 76 feet) measured 715, of which pregnant animals 369, or 51.61 per cent.
71	2	84	49	
72	3	85	27	
73	4	86	47	
74	3	87	41	
75	7	88	31	
76	2	89	14	
77	9	90	34	
78	7	91	13	
79	12	92	6	
80	18	93	2	
81	17			
82	19			
		Total	392	

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.		Number of fetuses measured ..... 4,976 of which twin pairs ..... 41
57	1	72	599	Total number of fin-whale females measured 14,344, of which pregnant animals 4,935, or 34.40 per cent.  Total number of mature fin-whale females (above 64 feet) measured 10,094, of which pregnant animals 4,829, or 47.84 per cent.
58	1	73	609	
60	5	74	517	
61	6	75	417	
62	12	76	272	
63	31	77	165	
64	50	78	82	
65	120	79	45	
66	158	80	9	
67	221	81	3	
68	256	82	3	
69	339	84	1	
70	546			
71	467	Total	4,935	

## Humpback females.

Length of mothers.	Number of pregnant animals.	Length of mothers.	Number of pregnant animals.	
Engl. feet.		Engl. feet.		Number of fetuses measured ..... 142
36	1	44	14	Total number of humpback females measured 294, of which pregnant animals 142, or 48.30 per cent.  Total number of mature humpback females (above 40 feet) measured 186, of which pregnant animals 115, or 61.83 per cent.
37	2	45	15	
38	3	46	14	
39	6	47	10	
40	15	48	8	
41	15	49	1	
42	23			
43	15	Total	142	

## Sei-whale females.

Length of mothers.	Number of pregnant animals.	Length of mothers.	Number of pregnant animals.	
Engl. feet.		Engl. feet.		Number of fetuses measured ..... 102 of which twin pairs ..... 4 » » triplets..... 1
46	1	53	19	
47	2	54	16	
48	3	55	10	
49	5	56	4	
50	9			
51	8	Total	96	
52	19			

**Table No. 8.—Whale fetuses measured in the Antarctic in the season 1954/55, by species and groups of size, in each month.**

Blue-whale fetuses.				
Groups of size. Engl. feet.	Jan.	Febr.	March	Total
Less than 1' .....	1	—	—	1
1'—1' 11" .....	—	—	—	—
2'—2' 11" .....	2	—	—	2
3'—3' 11" .....	1	1	—	2
4'—4' 11" .....	6	2	—	8
5'—5' 11" .....	12	11	1	24
6'—6' 11" .....	5	6	2	13
7'—7' 11" .....	14	11	5	30
8'—8' 11" .....	5	14	3	22
9'—9' 11" .....	9	17	5	31
10'—10' 11" .....	13	19	1	33
11'—11' 11" .....	9	18	11	38
12'—12' 11" .....	12	16	9	37
13'—13' 11" .....	4	10	6	20
14'—14' 11" .....	7	16	6	29
15'—15' 11" .....	3	10	15	28
16'—16' 11" .....	4	16	10	30
17'—17' 11" .....	1	4	7	12
18'—18' 11" .....	—	9	12	21
19'—19' 11" .....	—	—	2	2
20'—20' 11" .....	2	3	4	9
21'—21' 11" .....	—	3	2	5
22'—22' 11" .....	—	—	—	—
23'—23' 11" .....	—	1	1	2
Total blue-whale fetuses .....	110	187	102	399
Average size of fetuses .....	9' 6"	11' 9"	14' 1"	11' 8"

**Fin-whale fetuses.**

Groups of size. Engl. feet.	Oct.	Nov.	Dec.	Jan.	Febr.	March	Total
Less than 1' .....	5	2	—	20	3	—	30
1'—1' 11" .....	12	7	—	55	25	1	100
2'—2' 11" .....	21	15	6	121	60	13	236
3'—3' 11" .....	12	15	3	173	75	18	296
4'—4' 11" .....	2	9	10	237	115	17	390
5'—5' 11" .....	2	5	9	272	140	34	462
6'—6' 11" .....	—	1	9	239	155	49	453
7'—7' 11" .....	—	3	6	251	172	53	485
8'—8' 11" .....	—	—	—	225	189	68	482
9'—9' 11" .....	—	—	1	161	173	62	397
10'—10' 11" .....	—	—	1	153	183	98	435
11'—11' 11" .....	—	—	—	71	145	80	296
12'—12' 11" .....	1	—	—	72	174	91	338
13'—13' 11" .....	—	—	—	11	100	98	209
14'—14' 11" .....	—	—	—	10	69	80	159
15'—15' 11" .....	—	—	—	7	47	51	105
16'—16' 11" .....	—	—	—	—	14	35	49
17'—17' 11" .....	—	—	—	3	6	23	32
18'—18' 11" .....	—	—	—	—	2	9	11
19'—19' 11" .....	—	—	—	—	1	2	3
20'—20' 11" .....	—	—	—	—	4	2	6
21'—21' 11" .....	—	—	—	—	—	2	2
Total fin-whale fetuses .....	55	57	45	2,081	1,852	886	4,976
Average size of fetuses .....	2' 3"	3' 0"	4' 11"	6' 6"	8' 7"	10' 9"	7' 11"

Table No. 8 (continued).

## Humpback foetuses.

Groups of size.	Febr.	Total.
Engl. feet.		
Less than 1'.....	—	—
1'— 1' 11".....	6	6
2'— 2' 11".....	46	46
3'— 3' 11".....	47	47
4'— 4' 11".....	22	22
5'— 5' 11".....	8	8
6'— 6' 11".....	10	10
7'— 7' 11".....	1	1
8'— 8' 11".....	2	2
Total humpback foetuses.....	142	142
Average size of foetuses.....	3' 6"	3' 6"

## Sei-whale foetuses.

Groups of size	Jan.	Febr.	March.	Total.
Engl. feet.				
Less than 1'.....	—	—	—	—
1'— 1' 11".....	—	1	—	1
2'— 2' 11".....	1	1	—	2
3'— 3' 11".....	—	1	2	3
4'— 4' 11".....	—	3	1	4
5'— 5' 11".....	1	3	1	5
6'— 6' 11".....	—	3	1	4
7'— 7' 11".....	1	6	2	9
8'— 8' 11".....	—	3	2	5
9'— 9' 11".....	—	9	1	10
10'—10' 11".....	1	14	5	20
11'—11' 11".....	—	8	4	12
12'—12' 11".....	—	3	8	11
13'—13' 11".....	—	1	6	7
14'—14' 11".....	—	1	3	4
15'—15' 11".....	—	—	5	5
Total sei-whale foetuses.....	4	57	41	102
Average size of foetuses.....	6' 0"	8' 7"	10' 10"	9' 5"

Table No. 9.—Whale foetuses measured in the Antarctic in the season 1954/55, 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.			
<b>Blue-whale foetuses.</b>					
January.....	61	49	—	110	124.49
February.....	98	89	—	187	110.11
March.....	51	50	1	102	102.00
Total	210	188	1	399	111.70

Table No. 9 (continued).

Kind of foetuses. Months.	Number of		Sex not stated.	Total foetuses.	Number of males per 100 females.
	males.	females.			
<b>Fin-whale foetuses.</b>					
October.....	26	28	1	55	92.86
November.....	30	27	-	57	111.11
December.....	28	17	-	45	164.71
January.....	1,104	974	3	2,081	113.35
February.....	888	963	1	1,852	92.21
March.....	422	464	-	886	90.95
Total	2,498	2,473	5	4,976	101.01
<b>Humpback foetuses.</b>					
February.....	67	75	-	142	89.33
Total	67	75	-	142	89.33
<b>Sei-whale foetuses.</b>					
January.....	4	-	-	4	-
February.....	31	26	-	57	119.23
March.....	20	21	-	41	95.24
Total	55	47	-	102	117.02

