

DET NORSKE HVALRÅDS STATISTISKE PUBLIKASJONER

INTERNATIONAL
WHALING STATISTICS

XXXX

EDITED BY
THE COMMITTEE FOR WHALING STATISTICS



OSLO 1958

Price: kr. 2.00.

DET NORSKE HVALRÅDS STATISTISKE PUBLIKASJONER

INTERNATIONAL
WHALING STATISTICS

XXXX

EDITED BY
THE COMMITTEE FOR WHALING STATISTICS



OSLO 1958

PRINTED BY
GRØNDAHL & SØN, OSLO

CONTENTS

Preface	Page	5
Introduction	„	7
Table No. 1.—Whaling in the Antarctic in the season 1956/57	„	41
Table No. 2.—Whaling results for the various countries in the Antarctic in the season 1956/57	„	41
Table No. 3.—Average size of whales caught in the Antarctic in the season 1956/57	„	42
Table No. 4.—Whales caught in the season 1956/57 in the Antarctic, by species, sex and size	„	44
Total Antarctic	„	44
a. South Georgia	„	46
b. Antarctic, pelagic whaling	„	48
Table No. 5.—Whales caught in the season 1956/57 in the Antarctic, by species, sex and groups of size	„	50
Total Antarctic	„	50
a. South Georgia	„	50
b. Antarctic, pelagic whaling	„	51
Table No. 6.—Average production of oil per blue-whale unit in the Antarctic in the season 1956/57	„	52
Table No. 7.—Size of pregnant whale females caught in the Antarctic in the season 1956/57	„	52
Table No. 8.—Whale foetuses measured in the Antarctic in the season 1956/57, by species and groups of size, in each month	„	54
Table No. 9.—Whale foetuses measured in the Antarctic in the season 1956/57, by species and sex, in each month	„	55

PREFACE

The present publication, International Whaling Statistics No. XXXX, embraces the results of the Antarctic whaling during the season 1956-57.

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

Oslo, February 1958.

Gunnar Jahn.

Birger Bergersen.

Einar Vangstein.

INTRODUCTION

During the Antarctic Season 1956-57 7 countries carried on whaling with 20 floating factories, 3 shore stations and a total of 246 catchers. The whaling matériel employed belonged to the participating countries as follows:—

Norway	9 floating factories, 1 shore station, 101 catchers		
Japan	5 " "	54 "	
United Kingdom	3 " " 1 "	42 "	
U.S.S.R.	1 " "	18 "	
The Netherlands	1 " "	14 "	
Union of South Africa	1 " "	10 "	
Argentina	1 " " 1 " "	7 "	

Total 20 floating factories, 3 shore stations, 246 catchers

This is one floating factory more but 32 catchers less than during the season 1955-56. The increased number of floating factories is accounted for by the fact that a new floating factory, "Matsushima Maru" (11,965 gr.t.) had been put into operation by a Japanese company. Besides, another Japanese company purchased in 1956 the floating factory "Olympic Challenger," which during the season 1955-56 had been operating under the flag of Panama. This floating factory, renamed "Kyokuyo Maru No. 2," was operating under Japanese flag during the last season.

All the countries participating in the Antarctic pelagic whaling season 1956-57 have ratified the International Whaling Convention.

At the meeting of the International Whaling Commission in London in 1956 the maximum quota for the season 1956-57 was reduced from 15,000 to 14,500 blue-whale units.

The most important regulations concerning pelagic whaling during the season 1956-57 were as follows:—

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 February 1st.
3. The open season for the taking of humpback whales was February 1st, 2nd, 3rd and 4th.

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

Season 1954—55.		Season 1955—56.		Season 1956—57.	
Week ending	Number of blue-whale units	Week ending	Number of blue-whale units	Week ending	Number of blue-whale units
8/1 1955	742.0	7/1 1956	322.0	—	—
15/1 "	1,290.0	14/1 "	1,806.0	12/1 1957	1,697.0
22/1 "	2,109.0	21/1 "	1,903.0	19/1 "	1,552.0
29/1 "	1,665.0	28/1 "	1,668.0	26/1 "	1,325.0
5/2 "	1,524.0	4/2 "	2,006.0	2/2 "	1,525.0
12/2 "	1,358.0	11/2 "	1,691.0	9/2 "	1,829.0
19/2 "	1,583.0	18/2 "	1,868.0	16/2 "	2,069.0
26/2 "	1,418.0	25/2 "	1,683.0	23/2 "	1,578.0
5/3 "	1,511.0	3/3 "	1,647.0	2/3 "	1,239.0
12/3 "	1,043.0	4/3 "	266.0	9/3 "	892.0
19/3 "	1,057.0			16/3 "	1,028.0
Total	15,300.0	Total	14,860.0	Total	14,734.0

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 14,500 blue-whale units. (As one blue-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. The open season for sperm-whales was 8 months and the minimum size limit was 38 feet.
9. 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;

Table b.—Number and gross tonnage of floating factories and catchers engaged in pelagic whaling in the Antarctic 1943/44—1956/57.

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	13,819	162	56,156	347	1,302
1948-49....	18	254,406	14,134	191	76,272	399	1,501
1949-50....	18	257,112	14,284	216	91,499	424	1,582
1950-51....	19	271,646	14,297	239	108,493	454	1,705
1951-52 ¹⁾ ..	19	289,120	15,217	263	124,374	473	1,774
1952-53....	16	238,448	14,903	230	113,608	494	1,862
1953-54....	17	261,898	15,406	206	102,525	498	1,874
1954-55....	19	286,205	15,063	233	119,011	511	1,933
1955-56....	19	305,765	16,093	257	131,881	513	1,945
1956-57....	20	320,268	16,013	225	122,569	545	2,073

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

provided that when the number of blue-whale units was deemed by the Committee for International Whaling Statistics to have reached 13,000, 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 8 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 13,000 units. From that time daily reports were sent in. Per March 11th the total catch amounted to 14,014 blue-whale units, and the Committee fixed the closing date for March 16th, midnight. On March 12th the expeditions were notified accordingly. The Japanese floating factories "Nisshin Maru" and "Kinjyo Maru", however, ceased operations on March 10th.

As it will be seen from table *a* the total catch according to the telegraphic reports amounted to 14,734 blue-whale units or 234 units more than the permissible maximum quota. It will appear that there was a considerable decrease in the catch during the last 3 weeks of the season. In 1956-57 the highest weekly catch in blue-whale units was 2,069, while the

lowest was 892. The corresponding figures for the previous season were 2,006 and 1,647 units respectively.

By examining the statistical data provided by the companies after the return from the grounds, the total catch of the pelagic expeditions was as follows:—

Species of whales	Processed whales	Lost whales	Captured whales	Catch in blue-whale units
Blue-whales	1,505	—	1,505	1,505.0
Fin-whales	25,502	198	25,700	12,850.0
Humpbacks	673	6	679	271.6
Sei-whales	708	4	712	118.6
<hr/>				
Total baleen whales	28,388	208	28,596	14,745.2
Sperm-whales	4,335	10	4,345	—
<hr/>				
Total of whales	32,723	218	32,941	14,745.2

Regulations in regard to maximum quotas for pelagic expeditions were adopted in 1944. 1947-48 was the first season during which the operations were called off because the quota agreed upon had been reached. In the table below the actual catch, converted into blue-whale units, is compared with the quota agreed upon during each of the seasons 1947/48-1956/57:

Season	Catch in blue-whale units	Agreed quota	Actual catch higher (plus), lower (minus) than agreed quota
1947-48.....	16,364.3	16,000	plus 2.28 per cent
1948-49.....	16,007.4	16,000	„ 0.05 „ „
1949-50.....	16,062.1	16,000	„ 0.39 „ „
1950-51.....	16,416.2	16,000	„ 2.60 „ „
1951-52.....	16,007.7	16,000	„ 0.05 „ „
1952-53.....	14,866.6	16,000	minus 7.08 „ „
1953-54.....	15,456.4	15,500	„ 0.28 „ „
1954-55.....	15,323.5	15,500	„ 1.14 „ „
1955-56.....	14,874.3	15,000	„ 0.84 „ „
1956-57.....	14,745.2	14,500	plus 1.69 „ „
<hr/>			
Total.....	156,123.7	156,500	minus 0.24 per cent

From and including 1947-48 a total catch of 156,500 blue-whale units has been permitted, while the actual catch has amounted to 156,123.7 units. This means that the catch during the 10 seasons mentioned has been 376 units or 0.24 per cent lower than the permissible maximum quota.

The whaling period and the number of catching days for the pelagic baleen whale operations from and including 1945-46 have 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
1955-56.....	January 7th-March 4th	58
1956-57.....	January 7th-March 16th	69

The whaling period for blue-whales was until and including the season 1952-53 the same as the period for fin-whales. During the season 1953-54 the whaling period for blue-whales opened on January 16th, during the season 1954-55 on January 21st and during the last 2 seasons the opening date has been February 1st. From and including the season 1953-54 the taking of humpbacks has been permitted during the period February 1st-4th only.

Although the quota agreed upon for the baleen whale season 1956-57 was reduced by 500 blue-whale units, the whaling period was extended to 69 days against 58 days in the 1955-56 season. However, as previously mentioned, the pelagic expeditions were operating with 32 catchers less in 1956-57 than during the preceding season.

Table *b*, page 9, shows the number of floating factories and catchers engaged in pelagic whaling from and including 1943-44, the average gross tonnage of the floating factories and the average gross tonnage and engine power of the catchers. The survey below gives 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
1955-56	19	13.5
1956-57	20	11.3

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.	
1919-20	1,874	3,213	261	71	8	1 ¹⁾ 14	5,441	272,817	6	6	44	124
1920-21	2,617	5,491	260	36	31	1 ¹⁾ 13	8,448	390,627	6	8	47	180
1921-22	4,416	2,492	9	103	3	-	7,023	452,517	6	8	46	153
1922-23	5,683	3,677	517	10	23	-	9,910	614,547	6	13	60	165
1923-24	3,732	3,035	233	193	66	1 ¹⁾ 12	7,271	464,678	6	14	66	110
1924-25	5,703	4,366	359	1	59	-	10,488	697,091	6	13	65	161
1925-26	4,697	8,916	364	195	37	1 ¹⁾ 10	14,219	783,307	6	15	70	203
1926-27	6,545	5,102	189	778	39	1 ¹⁾ 12	12,665	872,362	6	17	80	158
1927-28	8,334	4,459	23	883	72	1 ¹⁾ 4	13,775	1,037,392	6	18	84	164
1928-29	12,734	6,689	48	808	62	-	20,341	1,631,340	6	26	111	183
1929-30	17,898	11,614	853	216	73	1 ¹⁾ 1	30,655	2,546,759	6	38	194	158
1930-31	29,410	10,017	576	145	51	1 ¹⁾ 2	40,201	3,608,348	6	41	232	173
1931-32	6,488	2,871	184	16	13	-	9,572	808,560	2	5	45	213
1932-33	18,891	5,168	159	2	107	-	24,327	2,456,462	1	17	118	206
1933-34	17,349	7,200	872	-	666	-	26,087	2,395,544	2	19	126	207
1934-35	16,500	12,500	1,965	266	577	-	31,808	2,453,999	2	23	153	208
1935-36	17,731	9,697	3,162	2	399	-	30,991	2,436,338	2	24	175	177
1936-37	14,304	14,381	4,477	490	926	1 ¹⁾ 1	34,579	2,658,108	2	30	196	176
1937-38	14,923	28,009	2,079	161	867	-	46,039	3,340,330	2	31	256	180
1938-39	14,081	20,784	883	22	2,585	1 ¹⁾ 1	38,356	2,820,771	2	34	281	136
1939-40	11,480	18,694	2	81	1,938	2 ¹⁾ 705	32,900	2,544,253	2	28	240	137
1940-41	4,943	7,831	2,675	110	804	-	16,363	1,100,008	1	11	93	176
1941-42	59	1,189	16	52	109	-	1,425	77,819	2	-	12	119
1942-43	125	776	-	73	24	-	998	50,960	1	-	6	166
1943-44	339	1,158	4	197	101	-	1,799	132,001	1	1	15	120
1944-45	1,042	1,666	60	78	45	-	2,891	223,540	1	1	15	193
1945-46	3,606	9,185	238	85	273	-	13,387	818,652	3	9	93	144
1946-47	9,192	14,547	29	393	1,431	1 ¹⁾ 1	25,593	1,939,742	3	15	147	174
1947-48	6,908	21,141	26	621	2,622	-	31,318	2,104,051	3	17	183	171
1948-49	7,625	19,123	31	578	4,078	-	31,435	2,219,621	3	18	212	148
1949-50	6,182	20,060	2,143	1,284	2,727	-	32,396	2,166,489	3	18	237	137
1950-51	7,048	19,456	1,638	886	4,968	3 ¹⁾ 1	33,997	2,303,690	3	19	260	131
1951-52	5,130	22,527	1,556	530	5,485	4 ¹⁾ 9	35,237	2,479,180	3	20	289	122
1952-53	3,870	22,867	963	621	2,332	-	30,653	2,118,097	3	16	251	122
1953-54	2,697	27,659	605	1,029	2,879	4 ¹⁾ 3	34,872	2,285,720	3	17	227	154
1954-55	2,176	28,624	495	569	5,790	-	37,654	2,242,555	3	19	254	148
1955-56	1,614	27,958	1,432	560	6,974	4 ¹⁾ 42	38,580	2,307,171	3	19	278	139
1956-57	1,512	27,757	679	1,692	4,429	4 ¹⁾ 46	36,115	2,246,922	3	20	246	147

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

During the seasons prior to 1953-54 the whaling companies engaged a continually increasing number of catchers, and the new catchers being built were ever larger and more powerful. This resulted in a curtailment of the whaling period, but not in a larger catch, as the catch was limited to a definite number of blue-whale units. As far as the season 1953-54 was concerned a private agreement, restricting the number of catchers was acceded to by the British, Dutch, Japanese and Norwegian expeditions. This agreement, with minor alterations, was renewed for the season 1954-55. Negotiations concerning an agreement for the season 1955-56 did not, however, lead to any result, but in 1956 a new whaling

Table d.—Pelagic whaling in the Antarctic.¹

Years.	Species of whales caught.						Total of whales.	Oil production.	Expeditions.			Number of whales per boat.
	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.			Shore stations.	Floating factories.	Catchers.	
1919-20	887	1,540	182	—	—	—	2,609	Barrels. 125,788	—	6	18	145
1920-21	1,761	2,848	157	—	—	—	4,766	213,490	1	8	26	183
1921-22	1,846	1,782	—	—	—	—	3,628	203,475	1	8	26	140
1922-23	2,114	2,232	197	—	4	—	4,547	266,994	1	12	37	123
1923-24	1,805	1,657	103	2	17	²⁾ 12	3,596	217,215	1	13	43	84
1924-25	2,191	2,347	97	—	35	—	4,670	290,915	1	12	41	114
1925-26	2,842	3,207	128	182	25	²⁾ 10	6,394	378,850	1	14	47	136
1926-27	2,856	3,958	189	413	22	²⁾ 12	7,450	455,070	1	16	57	131
1927-28	6,209	3,102	23	788	12	²⁾ 4	10,138	733,912	1	17	61	166
1928-29	11,174	3,559	33	412	31	—	15,209	1,282,711	1	25	88	173
1929-30	17,410	8,218	807	—	34	—	26,469	2,298,796	1	38	167	158
1930-31	28,325	8,601	510	1	27	²⁾ 1	37,465	3,420,410	1	41	205	183
1931-32	6,050	1,136	178	—	3	—	7,367	686,355	—	5	33	223
1932-33	18,624	4,441	159	—	107	—	23,331	2,401,879	—	17	112	208
1933-34	16,813	5,472	780	—	659	—	23,724	2,263,357	—	19	114	208
1934-35	15,944	11,664	1,928	141	556	—	30,233	2,345,858	—	23	143	211
1935-36	16,510	9,177	3,121	2	396	—	29,206	2,293,153	—	24	165	177
1936-37	14,183	13,302	4,460	19	856	²⁾ 1	32,821	2,576,479	—	30	184	178
1937-38	14,826	26,457	2,039	6	824	—	44,152	3,250,064	—	31	244	181
1938-39	13,849	19,477	883	3	2,468	²⁾ 1	36,681	2,709,281	—	34	270	136
1939-40	11,392	17,757	2	1	1,853	³⁾ 704	31,709	2,479,471	—	28	228	139
1940-41	4,936	7,084	2,675	22	778	—	15,495	1,055,510	—	11	88	176
1941-42	—	—	—	—	—	—	—	—	—	—	—	—
1942-43	—	—	—	—	—	—	—	—	—	—	—	—
1943-44	311	526	—	—	—	—	837	82,000	—	1	8	105
1944-45	914	679	—	2	—	—	1,595	148,000	—	1	8	199
1945-46	3,526	7,729	—	3	216	—	11,474	739,775	—	9	77	149
1946-47	8,865	12,877	1	2	1,298	—	23,043	1,794,424	—	15	129	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	⁴⁾ 1	31,180	2,152,498	—	19	239	130
1951-52	5,124	20,520	1,546	32	5,344	⁵⁾ 9	32,575	2,334,805	—	20	268	122
1952-53	3,866	21,197	954	123	2,185	—	28,325	1,998,094	—	16	230	123
1953-54	2,684	24,986	594	251	2,700	⁵⁾ 3	31,218	2,100,884	—	17	206	152
1954-55	2,163	25,878	493	146	5,708	—	34,388	2,061,789	—	19	233	148
1955-56	1,611	25,289	1,432	276	6,881	⁵⁾ 42	35,531	2,134,808	—	19	257	138
1956-57	1,505	25,700	679	712	4,345	⁵⁾ 46	32,987	2,098,854	—	20	225	147

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

agreement was arrived at and acceded to by all the whaling companies operating in the Antarctic, except the Soviet-Russian company.

The agreement resulted in a reduction of the average number of catchers per floating factory from 13.5 in 1955-56 to 11.3 in 1956-57. 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 1,945 I.H.P. in 1955-56 and 2,073 I.H.P. in 1956-57.

The total whaling results in the Antarctic from 1919-20 up to and including 1956-57 are given in table *c*, page 12. In table *d*, page 13, the results of the pelagic whaling during the same period have been recorded separately.

Table e.—Average production per floating factory and catcher in the pelagic whaling in Antarctic 1929/30—1956/57 (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.
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
1955-56	1,797,069	19	94,583	1,104	58	30,984	1,628
1956-57	1,883,961	20	94,198	1,371	69	27,304	1,374

II. Catchers:

Seasons.	Total production of whale oil.	Total number of catchers.	Average production per catcher.	Catching days.		Average oil production per catcher's day-work.	Average number of whales caught ¹⁾ per catcher's day-work
				Total.	Average per catcher.		
	Barrels.		Barrels.			Barrels.	
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	93	1.30
1949-50	1,888,968	216	8,745	18,128	84	104	1.46
1950-51	1,909,640	239	7,990	18,554	78	103	1.42
1951-52	2,054,853	263	7,813	16,902	64	122	1.61
1952-53	1,884,207	230	8,192	17,101	74	110	1.53
1953-54	1,964,994	206	9,539	15,630	76	126	1.82
1954-55	1,780,067	233	7,640	16,619	71	107	1.73
1955-56	1,797,069	257	6,992	14,893	58	121	1.92
1956-57	1,883,961	225	8,373	15,429	69	122	1.85

¹⁾ 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
1955-56.....	4.5	71.3	4.0	0.8	19.4	100
1956-57.....	4.6	78.0	2.0	2.2	13.2	100

During the season 1956-57 the pelagic expeditions killed a total of 32,987 whales against 35,531 during the season 1955-56. The blue-whale catch amounted to 1,505, or 106 blue-whales less than during the previous season. 25,700 fin-whales were killed, or 411 fin-whales more than in 1955-56. During the last season the catch of humpbacks amounted to 679 against 1,432 in 1955-56, 493 in 1954-55 and 594 in 1953-54. Since the regulation of a 4 days' catching period for humpbacks was introduced from and including the season 1953-54 the total catch of this species has been 3,198 animals, i.e. an average of 800 humpbacks per season. The sperm-whale catch in 1956-57 amounted to 4,345 or 2,536 less than during the season 1955-56.

The oil production of the pelagic expeditions during the season 1956-57 amounted to 2,098,854 barrels, of which 1,883,961 barrels were whale-oil and 214,893 barrels sperm-oil. During the preceding season the total output of oil amounted to 2,134,808 barrels, of which 1,797,069 barrels were whale-oil and 337,739 barrels sperm-oil.

Table e, page 14, gives a survey for a series of years of the average total and average daily production of whale-oil per floating factory and per catcher. This table also includes data showing the average number of

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 Statis- tics' total figures.	
<i>Total animals.</i>	1938-39..	1,362	10,138	12,618	9,978	2,569	-	1) 36,665	1) 36,681
	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
1955-56..	665	4,183	13,813	14,750	1,846	-	35,257	35,489	
1956-57..	373	2,753	11,483	14,000	4,114	-	32,723	32,941	
<i>Blue- whales.</i>	1938-39..	849	5,128	4,892	2,365	605	-	13,839	13,849
	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
1955-56..	-	1	1	1,503	106	-	1,611	1,611	
1956-57..	-	1	1	1,178	325	-	1,505	1,505	
<i>Fin- whales.</i>	1938-39..	64	3,608	6,956	7,057	1,792	-	19,477	19,477
	1948-49..	-	1,835	6,416	5,114	3,666	-	17,031	17,201
	1949-50..	-	2,038	6,931	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
1955-56..	-	1	12,733	11,047	1,321	-	25,102	25,289	
1956-57..	-	3	10,777	11,345	3,377	-	25,502	25,700	
<i>Hump- backs.</i>	1938-39..	134	456	235	58	-	-	883	883
	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
1955-56..	-	2	2	1,421	-	-	1,425	1,432	
1956-57..	-	-	-	673	-	-	673	679	
<i>Sei- whales.</i>	1938-39..	-	-	-	-	1) 4	-	1) 4	1) 4
	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
1955-56..	-	-	13	201	60	-	274	276	
1956-57..	-	-	83	428	197	-	708	712	
<i>Sperm- whales.</i>	1938-39..	315	946	535	498	168	-	2,462	2,468
	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
1955-56..	665	4,179	1,064	578	359	-	6,845	6,881	
1956-57..	373	2,749	622	376	215	-	4,335	4,345	

1) 1 right-whale included.

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

Species of whales. Seasons.	Nov.	Dec.	Jan.	Feb.	March.	April.	Total.	The Whaling Statistics' total figures.	
<i>Total animals</i>	1938-39	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
	1948-49	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
	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
	1955-56	—	—	—	10.2	5.7	—	4.6	4.5
1956-57	—	—	—	8.4	7.9	—	4.6	4.6	
<i>Fin-whales</i>	1938-39	4.7	35.6	55.1	70.7	69.8	—	53.1	53.1
	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
	1955-56	—	—	92.2	74.9	71.6	—	71.2	71.3
1956-57	—	0.1	93.9	81.0	82.1	—	77.9	78.0	
<i>Hump-backs</i>	1938-39	9.8	4.5	1.9	0.6	—	—	2.4	2.4
	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
	1955-56	—	0.1	—	9.6	—	—	4.0	4.0
1956-57	—	—	—	4.8	—	—	2.1	2.0	
<i>Sei-whales</i>	1938-39	—	—	—	—	0.1	—	—	—
	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
	1955-56	—	—	0.1	1.4	3.3	—	0.8	0.8
1956-57	—	—	0.7	3.1	4.8	—	2.2	2.2	
<i>Sperm-whales</i>	1938-39	23.1	9.3	4.2	5.0	6.5	—	6.7	6.7
	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
	1955-56	100.0	99.9	7.7	3.9	19.4	—	19.4	19.4
1956-57	100.0	99.9	5.4	2.7	5.2	—	13.2	13.2	

baleen whales killed per catcher's day-work. When judging the whaling results on the basis of these figures, 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 15 illustrates the relation between the various species of whales killed in pelagic operations in the Antarctic from 1928-29. In 1956-57 4.6 per cent of the total number of whales killed were blue-whales as against 4.5 per cent in 1955-56 and 6.3 per cent in 1954-55. The fin-whale catch in 1956-57 represented 78.0 per cent of the total catch against 71.3 per cent in 1955-56 and 75.3 per cent in 1954-55. These percentage figures are, however, influenced by the sperm-whale catch which has varied considerably during the last seasons. In 1956-57 13.2 per cent of all whales killed were sperm-whales, as against 19.4 per cent in 1955-56, 16.6 per cent in 1954-55 and 8.7 per cent in 1953-54.

In the following survey 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
1936-37	14,183	51.6	13,302	48.4
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
1955-56	1,611	6.0	25,289	94.0
1956-57	1,505	5.5	25,700	94.5

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 1956-57 only represented 5.5 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

Table i.—Average size of whales killed in the Antarctic, by whaling grounds and species of whales 1938/39 and 1946/47—1956/57.

Whaling grounds and species of whales.	1938 -39	1946 -47	1947 -48	1948 -49	1949 -50	1950 -51	1951 -52	1952 -53	1953 -54	1954 -55	1955 -56	1956 -57
Pelagic whaling.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.
<i>Blue-whales.</i>												
Males	76.6	76.8	77.1	77.5	77.7	77.3	76.4	75.8	76.0	75.7	75.6	75.8
Females	79.5	79.7	79.9	80.8	80.7	79.4	79.5	79.1	79.6	79.5	78.9	78.4
Total animals.....	78.0	78.3	78.4	79.1	79.0	78.2	78.0	77.5	78.0	77.8	77.3	77.0
<i>Fin-whales.</i>												
Males	65.7	65.8	66.6	66.4	66.0	65.2	66.4	65.7	65.6	65.1	65.1	65.3
Females	68.9	69.0	69.6	69.6	69.1	68.2	69.4	68.8	68.7	68.0	68.1	68.6
Total animals.....	67.2	67.4	67.9	67.9	67.5	66.6	67.9	67.3	67.1	66.5	66.5	66.9
<i>Humpbacks.</i>												
Males	37.7	—	—	39.7	39.7	39.7	39.3	39.5	39.6	39.9	39.0	40.7
Females	40.5	48.0	46.0	42.5	41.4	41.6	41.4	42.0	41.1	41.8	40.7	42.1
Total animals.....	39.6	48.0	46.0	41.8	40.6	40.8	40.4	40.9	40.3	41.1	40.0	41.4
South Georgia.												
<i>Blue-whales, total ...</i>	75.8	77.1	76.3	76.3	74.3	76.9	72.0	74.0	73.3	73.0	81.3	71.7
<i>Fin-whales, total ...</i>	65.4	67.5	65.8	65.6	65.2	66.0	66.0	65.4	64.0	64.8	65.0	63.8
<i>Humpbacks, total ...</i>	—	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	45.1	46.7	46.0	48.6	46.9	48.1	46.7	47.0	48.7	46.8	45.7

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 prevailing species. In order to obtain a larger oil output of the whale the opening day of the pelagic season has gradually been postponed ever since the early thirties. During post-war seasons the efforts of reducing the taxation of blue-whales have also contributed to this postponement of the whaling period. In the two last seasons, 1955-56 and 1956-57, the opening day of the blue-whale season was February 1st, while the blue-whale catch in 1932-33 commenced on October 20th.

In tables *g* and *h*, pages 16 and 17, the monthly catch of the various species of whales is recorded in absolute and percentage figures for a series of years. These figures show that the blue-whale catch in each month during the post-war seasons has represented an ever smaller part of the total catch. Most of the figures are, however, to a great extent influenced by the above mentioned postponement and curtailment of the whaling period, viz. all the figures for the months of December and March as well as the January figures for the seasons from and including 1953-54. Only the month of January during the seasons up to and including 1952-53 and the month of February during all seasons have been unaffected by the postponement of the whaling period, 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 February 1st (incl.)—March 4th (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-whales killed Febr. 1st—March 4th	Number of fin-whales killed Febr. 1st—March 4th	Blue-whales in per cent of all blue- and fin-whales killed Febr. 1st—March 4th
1931–32	1,013	623	61.9
1932–33	2,312	2,282	50.3
1933–34	1,781	2,044	46.6
1934–35	2,919	4,689	38.4
1935–36	3,569	3,458	50.8
1936–37	2,850	6,688	29.9
1937–38	2,342	11,820	16.5
1938–39	2,636	8,127	24.5
1945–46	1,326	2,832	31.9
1946–47	2,000	4,266	31.9
1947–48	1,654	5,577	22.9
1948–49	1,987	5,894	25.2
1949–50	2,423	7,004	25.7
1950–51	2,707	6,727	28.7
1951–52	2,731	7,802	25.9
1952–53	1,373	8,452	14.0
1953–54	1,500	9,225	14.0
1954–55	1,119	10,678	9.5
1955–56	1,609	12,366	11.5
1956–57	1,503	14,722	9.3

While the percentage proportion of blue-whales in relation to the total blue- and fin-whale catch varied between 31.9 per cent and 22.9 per cent during the post-war seasons until and including 1951–52, there has been a strongly reduced blue-whale catch during the last seasons. In 1956–57 the percentage proportion of blue-whales reached a minimum figure of 9.3.

The average size of blue-whales, fin-whales and humpbacks killed in the pelagic whaling and off South Georgia has been specified for all the post-war seasons in table *i*, page 19. In the pelagic operations the average size of the blue-whales killed declined by 0.3 ft. from 77.3 ft. in 1955–56 to 77.0 ft. in the last season. On the other hand the average size of the fin-whales killed increased from 66.5 ft. during the seasons 1954–55 and

Table j.—Average size of whales killed, by species and sex 1938/39 and 1946/47—1956/57, 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	1946 -47	1947 -48	1948 -49	1949 -50	1950 -51	1951 -52	1952 -53	1953 -54	1954 -55	1955 -56	1956 -57
<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	77.6	77.6	77.9	78.2	77.8	77.1	76.3	76.4	76.1	76.1	76.3
Females	80.3	80.5	80.4	81.2	81.3	80.0	80.1	79.5	80.1	80.0	79.4	79.0
Total animals.	78.8	79.1	79.0	79.5	79.6	78.8	78.6	78.0	78.5	78.2	77.9	77.5
<i>Fin-whales.</i>												
Males	66.5	66.4	67.1	66.9	66.7	66.3	66.7	66.0	65.9	65.9	65.2	66.2
Females	69.8	69.5	70.1	70.2	70.0	69.3	69.7	69.1	69.0	68.9	68.3	69.6
Total animals.	68.1	68.0	68.4	68.5	68.3	67.8	68.1	67.6	67.4	67.4	66.7	67.9
<i>Humpbacks.</i>												
Males	38.1	—	—	39.7	40.1	40.1	39.6	39.7	39.7	40.0	39.1	40.8
Females	40.8	48.0	46.0	43.6	41.8	41.8	41.7	42.2	41.3	41.9	40.8	42.3
Total animals.	40.0	48.0	46.0	42.6	41.0	41.1	40.7	41.1	40.5	41.1	40.1	41.6

1955-56 to 66.9 ft. in 1956-57. The average size of the humpbacks killed was 41.4 ft. against 40.0 ft. in 1955-56 and 41.1 ft. in 1954-55. For the seasons covered by the table the minimum length settled for blue-whales and humpbacks has been 70 ft. and 35 ft. respectively. The minimum length settled for fin-whales was 55 ft. until and including the season 1950-51, during the 3 successive seasons 60 ft. and during the last 3 seasons 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 21, 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. The average size of blue-whales (of 70 ft. and over) killed during the last season was 0.4 ft. lower than the average of the preceding season, while the average size of the fin-whales (of 60 ft. and over) increased from 66.7 ft. in 1955-56 to 67.9 ft. during the last season. The average size of the humpbacks killed (of 35 ft. and over) increased from 40.1 ft. to 41.6 ft.

Table *k*, page 22, gives particulars of the catch of mature and immature whales in absolute and relative figures during a series of seasons.

Animals of the following sizes are regarded as mature:

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

Table k.—Antarctic, pelagic whaling. Catch of immature and mature whales 1938/39 and 1948/49—1956/57.

	1938—39.		1948—49.		1949—50.		1950—51.		1951—52.		1952—53.		1953—54.		1954—55.		1955—56.		1956—57.	
	Number of whales.	Per cent.	Number of whales.	Per cent.	Number of whales.	Per cent.	Number of whales.	Per cent.	Number of whales.	Per cent.	Number of whales.	Per cent.	Number of whales.	Per cent.	Number of whales.	Per cent.	Number of whales.	Per cent.	Number of whales.	Per cent.
Blue-whales.																				
Immature																				
males.....	1,940	27.8	797	20.6	650	19.1	875	23.3	778	31.7	677	36.8	409	33.5	374	37.4	289	37.4	268	33.7
females ...	2,343	34.1	933	26.7	764	28.0	1,164	36.7	1,015	38.4	827	41.2	564	39.0	439	38.0	352	42.0	312	44.0
animals ...	4,283	30.9	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	641	39.8	580	38.5
Mature																				
males.....	5,034	72.2	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	484	62.6	528	66.3
females ...	4,522	65.9	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	486	58.0	397	56.0
animals ...	9,556	69.1	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	970	60.2	925	61.5
Fin-whales.																				
Immature																				
males.....	2,097	20.2	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	3,169	24.7	3,089	23.9
females ...	2,039	22.4	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	3,269	26.7	3,281	26.1
animals ...	4,136	21.2	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	6,438	25.7	6,370	25.0
Mature																				
males.....	8,297	79.8	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	9,688	75.3	9,835	76.1
females ...	7,044	77.6	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	8,976	73.3	9,297	73.9
animals ...	15,341	78.8	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	18,664	74.3	19,132	75.0
Humpbacks.																				
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	341	56.9	85	26.1
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	392	47.5	102	29.4
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	733	51.4	187	27.8
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	258	43.1	241	73.9
females ...	310	50.0	6	60.0	708	62.5	623	66.4	492	59.9	350	65.7	156	54.2	185	63.4	434	52.5	245	70.6
animals ...	391	44.3	7	53.9	1,281	60.9	1,011	62.3	855	55.8	551	58.6	302	50.9	298	60.6	692	48.6	486	72.2

During the last season 38.5 per cent of the total number of blue-whales killed were immature animals, against 39.8 per cent during the preceding season. Of the total fin-whale catch 25.0 per cent were immature animals against 25.7 per cent in 1955-56. The number of immature humpbacks killed amounted to 27.8 per cent in 1956-57 against 51.4 per cent in 1955-56 and 39.4 per cent in 1954-55.

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
"	II	"	0°	and	70° west
"	III	"	0°	"	70° east
"	IV	"	70° east	"	130° east
"	V	"	130° east	"	160° west

As previously mentioned the Pacific sector (area I) was opened to baleen whale hunting for 3 seasons from and including the season 1955-56. For a series of years pelagic hunting of baleen whales has not been permitted in this area.

A survey of the number and average size of the blue-whales, fin-whales and humpbacks killed in the individual areas from 1931-32 is given in table 7, page 24. The results for the seasons 1931/32-1937/38 are added together, and the same is the case in respect to the war seasons.

From the survey below will be seen the whaling results in the individual areas during the seasons 1955-56 and 1956-57.

	Catch in blue-whale units 1955-56		Per catcher's daywork	Catch in blue-whale units 1956-57		Per catcher's daywork
	Number of blue-whale units	Per cent		Number of blue-whale units	Per cent	
Total	14,779	100.0	0.99	14,636	100.0	0.95
Of which in:						
Area I	3,681	24.9	1.16	5,804	39.7	0.96
" II	3,853	26.0	0.99	6,295	43.0	0.94
" III	3,871	26.2	0.89	2,186	14.9	0.92
" IV	2,256	15.3	0.96	226	1.5	1.04
" V	1,118	7.6	1.00	125	0.9	0.87

In the Pacific sector, area I, the catch of baleen whales during the season 1956-57 amounted to 5,804 blue-whale units, or 39.7 per cent of the total pelagic catch of baleen whales. During the preceding season the corresponding whaling results in area I was 3,681 blue-whale units or 24.9 per cent of the total catch. This considerable catch in area I has led to a proportionately reduced taxation on the old grounds: areas II, III, IV, and V. In these areas the whaling results during the season 1956-57

Table I.—Number and average size of whales caught

No.	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.
Blue-whales.										
1	1931/32-1937/38	¹⁾ 17,214	16.7	79.0	48,125	46.8	78.4	37,210	36.2	80.2
2	1938-39	3,454	25.0	79.0	4,455	32.2	77.0	4,915	35.5	77.9
3	1939-40	3,441	61.9	78.2	734	13.2	76.8	1,386	24.9	78.7
4	1940/41-1944/45	2,106	90.8	77.9	214	9.2	78.5	-	-	-
5	1945-46	599	17.0	78.3	2,917	83.0	78.3	-	-	-
6	1946-47	1,857	21.0	78.6	2,968	33.5	78.4	3,346	37.7	78.1
7	1947-48	1,536	22.5	76.7	1,890	27.6	78.6	1,952	28.5	79.4
8	1948-49	2,022	27.4	78.6	2,981	40.4	79.3	1,325	18.0	79.1
9	1949-50	1,064	17.3	78.4	1,512	24.7	78.5	925	15.1	78.9
10	1950-51	1,559	22.5	77.4	1,427	20.6	77.8	1,076	15.5	77.7
11	1951-52	447	8.8	78.2	1,836	36.0	79.2	1,199	23.5	77.7
12	1952-53	727	18.9	78.9	1,454	37.8	77.7	837	21.8	77.0
13	1953-54	542	20.3	78.1	1,569	58.8	78.2	356	13.4	77.2
14	1954-55	470	21.8	79.0	685	31.8	78.1	310	14.4	77.6
15	1955-56	440	27.3	77.1	300	18.6	78.8	322	20.0	77.7
16	1956-57	332	22.1	76.9	275	18.3	78.4	80	5.3	78.5
	1931/32-1956/57	37,810	20.9	78.6	73,342	40.5	78.4	55,239	30.5	79.6
Fin-whales.										
1	1931/32-1937/38	²⁾ 25,970	36.3	67.8	31,251	43.6	67.7	14,373	20.1	68.7
2	1938-39	6,252	32.1	67.4	5,710	29.3	66.4	5,540	28.5	67.5
3	1939-40	7,840	73.7	67.4	2,218	20.9	66.9	574	5.4	67.5
4	1940/41-1944/45	2,039	97.7	66.5	49	2.3	67.4	-	-	-
5	1945-46	4,901	63.6	67.7	2,800	36.4	67.1	-	-	-
6	1946-47	4,655	36.2	66.7	4,382	34.0	68.5	3,355	26.1	67.3
7	1947-48	6,136	32.5	68.1	6,483	34.4	67.8	4,654	24.7	67.9
8	1948-49	4,995	29.2	67.4	6,457	37.8	68.5	3,068	18.0	67.4
9	1949-50	7,150	40.0	67.5	5,117	28.6	67.5	2,940	16.5	66.6
10	1950-51	5,543	32.1	66.5	4,133	23.9	66.2	4,210	24.3	66.5
11	1951-52	5,977	29.4	67.9	7,122	35.1	68.1	2,141	10.5	67.3
12	1952-53	4,551	21.7	68.1	11,364	54.2	67.1	1,449	6.9	66.2
13	1953-54	7,751	31.4	67.4	11,459	46.4	67.0	2,195	8.9	67.0
14	1954-55	4,963	19.4	67.3	13,607	53.1	66.4	2,790	10.9	66.4
15	1955-56	6,744	26.9	66.2	7,088	28.2	66.8	3,208	12.8	66.5
16	1956-57	11,818	46.3	67.2	3,812	15.0	67.2	291	1.1	64.6
	1931/32-1956/57	117,285	34.7	67.4	123,052	36.5	67.3	50,788	15.0	67.5
Humpbacks.										
1	1931/32-1937/38	³⁾ 1,057	8.4	41.0	6,209	49.1	40.8	5,384	42.5	40.7
2	1938-39	-	-	-	-	-	-	859	97.3	39.6
3	1940-41	231	82.8	42.6	48	17.2	41.2	-	-	-
4	1946/47-1948/49	6	37.5	44.0	9	56.3	41.7	1	6.2	45.0
5	1949-50	172	8.2	41.0	251	11.9	41.4	779	37.0	40.4
6	1950-51	264	16.3	41.4	20	1.2	38.8	1,112	68.5	40.5
7	1951-52	33	2.2	42.9	189	12.3	42.0	1,127	73.6	39.9
8	1952-53	14	1.5	44.6	218	23.2	41.2	191	20.3	39.1
9	1953-54	13	2.2	41.2	172	29.0	41.0	258	43.5	39.3
10	1954-55	2	0.4	42.5	142	28.9	41.4	-	-	-
11	1955-56	-	-	-	64	4.5	41.1	824	57.8	39.8
12	1956-57	-	-	-	8	1.2	40.8	-	-	-
	1931/32-1956/57	1,792	7.7	41.3	7,330	31.6	40.8	10,535	45.4	40.4

¹⁾ Incl. 608 blue-whales, length not stated. ²⁾ Incl. 193 fin-whales, length not stated. ³⁾ Incl. 2 humpbacks.

in the different areas of Antarctic. Pelagic whaling.

Area V.			Area I.			All areas.			The Whaling Statistics' total figures for whales caught.	No.
Number of whales caught.	Per cent.	Average size of the whales.	Number of whales caught.	Per cent.	Average size of the whales.	Number of whales caught.	Per cent.	Average size of the whales.		
		Eng. ft.			Eng. ft.			Eng. ft.		
311	0.3	80.5	3	—	75.3	102,863	100	79.2	102,950	1
1,015	7.3	79.7	—	—	—	13,839	100	78.0	13,849	2
—	—	—	—	—	—	5,561	100	78.2	11,392	3
—	—	—	—	—	—	2,320	100	77.9	6,161	4
—	—	—	—	—	—	3,516	100	78.3	3,526	5
693	7.8	77.6	—	—	—	8,864	100	78.3	8,865	6
1,467	21.4	78.7	—	—	—	6,845	100	78.4	6,862	7
1,043	14.2	79.2	—	—	—	7,371	100	79.1	7,399	8
2,631	42.9	79.6	—	—	—	6,132	100	79.0	6,168	9
2,866	41.4	79.2	—	—	—	6,928	100	78.2	6,966	10
1,619	31.7	76.9	—	—	—	5,101	100	78.0	5,124	11
829	21.5	76.6	—	—	—	3,847	100	77.5	3,866	12
200	7.5	77.3	—	—	—	2,667	100	78.0	2,684	13
689	32.0	76.6	—	—	—	2,154	100	77.8	2,163	14
60	3.7	76.7	489	30.4	76.3	1,611	100	77.3	1,611	15
—	—	—	818	54.3	76.5	1,505	100	77.0	1,505	16
13,423	7.4	78.6	1,310	0.7	76.4	181,124	100	78.8	191,091	
18	—	69.6	2	—	65.5	71,614	100	67.9	71,649	1
1,975	10.1	68.1	—	—	—	19,477	100	67.2	19,477	2
—	—	—	—	—	—	10,632	100	67.3	17,757	3
—	—	—	—	—	—	2,088	100	66.6	8,289	4
—	—	—	—	—	—	7,701	100	67.5	7,729	5
478	3.7	65.9	—	—	—	12,870	100	67.4	12,877	6
1,591	8.4	67.9	—	—	—	18,864	100	67.9	18,999	7
2,561	15.0	68.2	—	—	—	17,881	100	67.9	17,201	8
2,669	14.9	68.2	—	—	—	17,876	100	67.5	18,061	9
3,410	19.7	67.7	—	—	—	17,296	100	66.6	17,474	10
5,072	25.0	67.8	—	—	—	20,312	100	67.9	20,520	11
3,600	17.2	67.3	—	—	—	20,964	100	67.3	21,197	12
3,270	13.3	66.8	—	—	—	24,675	100	67.1	24,986	13
4,245	16.6	66.1	3	—	64.3	25,608	100	66.5	25,878	14
1,741	6.9	66.0	6,321	25.2	66.8	25,102	100	66.5	25,289	15
249	1.0	64.7	9,332	36.6	66.5	25,502	100	66.9	25,700	16
30,879	9.2	67.3	15,658	4.6	66.6	337,662	100	67.3	353,083	
4	—	43.0	—	—	—	12,654	100	40.7	12,665	1
24	2.7	39.8	—	—	—	883	100	39.6	883	2
—	—	—	—	—	—	279	100	42.4	2,675	3
—	—	—	—	—	—	16	100	42.8	16	4
903	42.9	40.5	—	—	—	2,105	100	40.6	2,117	5
228	14.0	41.8	—	—	—	1,624	100	40.8	1,630	6
183	11.9	41.6	—	—	—	1,532	100	40.4	1,546	7
518	55.0	41.4	—	—	—	941	100	40.9	954	8
150	25.3	41.3	—	—	—	593	100	40.3	594	9
348	70.7	40.9	—	—	—	492	100	41.1	493	10
467	32.8	40.1	70	4.9	40.2	1,425	100	40.0	1,432	11
—	—	—	665	98.8	41.4	673	100	41.4	679	12
2,825	12.2	40.9	735	3.1	41.3	23,217	100	40.7	4) 25,686	

length not stated. 4) 2 humpbacks caught in the season 1939/40 are included.

Table m.—Number of whales killed during the seasons 1931/32—1956/57.

— 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	37,810	20.9	117,285	34.7	1,792	7.7	10,000	20.4	166,887	28.2
III	73,342	40.5	123,052	36.5	7,330	31.6	19,213	39.3	222,937	37.7
IV	55,239	30.5	50,788	15.0	10,535	45.4	11,400	23.3	127,962	21.7
V	13,423	7.4	30,879	9.2	2,825	12.2	6,647	13.6	53,774	9.1
I	1,310	0.7	15,658	4.6	735	3.1	1,641	3.4	19,344	3.3
Total	181,124	100.0	337,662	100.0	23,217	100.0	48,901	100.0	590,904	100.0

— 2 —

Species of whales	Area II		Area III		Area IV		Area V		Area I		Total	
	No. of whales	Per cent	No. of whales	Per cent	No. of whales	Per cent	No. of whales	Per cent	No. of whales	Per cent	No. of whales	Per cent
Blue.....	37,810	22.6	73,342	32.9	55,239	43.2	13,423	25.0	1,310	6.8	181,124	30.7
Fin.....	117,285	70.3	123,052	55.2	50,788	39.7	30,879	57.4	15,658	80.9	337,662	57.1
Humpback	1,792	1.1	7,330	3.3	10,535	8.2	2,825	5.2	735	3.8	23,217	3.9
Sperm....	10,000	6.0	19,213	8.6	11,400	8.9	6,647	12.4	1,641	8.5	48,901	8.3
Total.....	166,887	100.0	222,937	100.0	127,962	100.0	53,774	100.0	19,344	100.0	590,904	100.0

amounted to 8,832 blue-whale units, compared to 11,098 blue-whale units in 1955–56, 15,000–16,000 units during the previous post-war seasons and 20,000–30,000 units during the latest pre-war seasons.

The whaling operations in areas IV and V were quite insignificant during the last season. The total catch in these areas amounted to about 350 blue-whale units. During the two preceding seasons the corresponding figures were 3,400 and 4,700 units. During the seasons 1950–51 and 1951–52 the whaling operations in these same areas amounted to about 8,300 and 6,900 units respectively. Also in area III the catch was relatively small, viz. 2,186 blue-whale units in 1956–57 against 3,871 units during the season 1955–56 and about 7,200–7,500 units during the seasons 1952–53, 1953–54 and 1954–55. In area II, on the other hand, the whaling results of the last season were the highest recorded in any post-war season. In this area the catch amounted to 6,295 units against 3,853 units during the season 1955–56.

The catch in blue-whale units per catcher's day-work were highest in area I during both the last two seasons, viz. in 1955–56 1.16 against 0.99 in all areas, and in 1956–57 0.96 in area I against 0.95 in all areas. The figure 1.04 for area IV in 1956–57 is of little consequence on account of the insignificant catch in this area.

The catch of blue- and fin-whales during the season 1956–57 has been divided over the individual areas as follows (page 28):—

Table n.—Antarctic, pelagic whaling results for the various countries 1937/38—1956/57.

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 ¹			Barrels			Barrels			Barrels		Barrels		Barrels		Barrels	
1937-38.....	44,152	3,250,064	244	²⁾ 14,960	³⁾ 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	²⁾ 11,521	³⁾ 842,712	90	10,541	847,127	74	9,371	746,182	65	1,170	100,945	9	7,540	483,476	49
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	1,050,100	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.....	34,388	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
1955-56.....	35,531	2,134,808	257	13,371	788,554	110	8,530	519,240	59	6,346	409,701	44	2,184	109,539	15	6,462	408,853	40
1956-57.....	32,987	2,098,854	225	14,008	955,599	94	6,877	420,553	45	5,281	333,967	35	1,596	86,586	10	8,093	492,507	54

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
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	-	-	-	-	-	-
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
1955-56.....	-	-	-	2,730	160,960	15	-	-	-	1,665	103,465	18	2,773	153,736	15
1956-57.....	-	-	-	-	-	-	-	-	-	1,409	92,489	14	2,600	137,706	18

¹⁾ Barrel = 170 kg. (Barrel = abt. ²/₅ long ton. 1 long ton = 1,016 kg.) ²⁾ Including the catch of two Norwegian expeditions hired by Germany in 1937-38 2,158 whales and in 1938-39 1,653 whales. ³⁾ Incl. the production of two Norwegian expeditions hired by Germany—in 1937-38 180,750 barrels and in 1938-39 118,380 barrels.

	Blue-whales killed during 1956—57			Fin-whales killed during 1956—57		
	Number	Per cent	Per catcher's day-work	Number	Per cent	Per catcher's day-work
Total	1,505	100.0	0.15	25,502	100.0	1.65
Of which in:						
Area I	818	54.3	0.23	9,332	36.6	1.55
.. II	332	22.1	0.08	11,818	46.3	1.77
.. III	275	18.3	0.14	3,812	15.0	1.61
.. IV	80	5.3	0.37	291	1.1	1.35
.. V	—	—	—	249	1.0	1.73

Table o.—South Georgia.

Years.	Species of whales caught.							Oil production.	Expeditions.			Number of whales per boat.
	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.	Total of whales.		Shore stations.	Floating factories.	Catchers.	
1919-20	987	1,673	79	71	8	1) ¹⁾ 14	2,832	Barrels 147,029	6	—	26	109
1920-21	856	2,643	103	36	31	1) ¹⁾ 13	3,682	177,137	5	—	21	175
1921-22	2,570	710	9	103	3	—	3,395	249,042	5	—	20	170
1922-23	3,569	1,445	320	10	19	—	5,363	347,553	5	1	23	233
1923-24	1,927	1,378	130	191	49	—	3,675	247,463	5	1	23	160
1924-25	3,512	2,019	262	1	24	—	5,818	406,176	5	1	24	242
1925-26	1,855	5,709	236	13	12	—	7,825	404,457	5	1	23	340
1926-27	3,689	1,144	—	365	17	—	5,215	417,292	5	1	23	227
1927-28	2,125	1,357	—	95	60	—	3,637	303,480	5	1	23	158
1928-29	1,560	3,130	15	396	31	—	5,132	348,629	5	1	23	223
1929-30	488	3,396	46	216	39	1) ¹⁾ 1	4,186	247,963	5	—	27	155
1930-31	1,085	1,416	66	144	24	1) ¹⁾ 1	2,736	187,938	5	—	27	101
1931-32	438	1,735	6	16	10	—	2,205	122,205	2	—	12	184
1932-33	267	727	—	2	—	—	996	54,583	1	—	6	166
1933-34	536	1,728	92	—	7	—	2,363	132,187	2	—	12	197
1934-35	556	836	37	125	21	—	1,575	108,141	2	—	10	158
1935-36	1,221	520	41	—	3	—	1,785	143,185	2	—	10	179
1936-37	121	1,079	17	471	70	—	1,758	81,629	2	—	12	147
1937-38	97	1,552	40	155	43	—	1,887	90,266	2	—	12	157
1938-39	232	1,307	—	19	117	—	1,675	111,490	2	—	11	152
1939-40	88	937	—	80	85	1) ¹⁾ 1	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) ¹⁾ 1	2,550	145,318	3	—	18	142
1947-48	46	2,142	24	609	128	—	2,949	163,398	3	—	21	140
1948-49	226	1,922	18	562	213	—	2,941	172,194	3	—	21	140
1949-50	14	1,999	26	1,183	157	—	3,379	147,121	3	—	21	161
1950-51	82	1,982	8	519	226	—	2,817	151,192	3	—	21	134
1951-52	6	2,007	10	498	141	—	2,662	144,375	3	—	21	127
1952-53	4	1,670	9	498	147	—	2,328	120,003	3	—	21	111
1953-54	13	2,673	11	778	179	—	3,654	184,836	3	—	21	174
1954-55	13	2,746	2	423	82	—	3,266	180,766	3	—	21	156
1955-56	3	2,669	—	284	93	—	3,049	172,363	3	—	21	145
1956-57	7	2,057	—	980	84	—	3,128	148,068	3	—	21	149

1) Right-whale.

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

Species of whales. Seasons.	Oct.	Nov.	Dec.	Jan.	Feb.	March.	April.	Total.	The Whal- ing Statis- tics' total figures.	
<i>Total animals.</i>	1933-39.....	51	240	453	332	218	343	38	1,675	1,675
	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
	1955-56.....	371	391	266	757	572	644	-	3,001	3,049
1956-57.....	314	404	460	562	627	701	-	3,068	3,128	
<i>Blue- whales.</i>	1933-39.....	-	7	131	35	24	32	3	232	232
	1948-49.....	40	100	52	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
	1955-56.....	1	-	1	-	-	1	-	3	3
1956-57.....	2	1	1	1	1	1	-	7	7	
<i>Fin- whales.</i>	1938-39.....	51	232	318	292	189	211	14	1,307	1,307
	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
	1955-56.....	366	386	262	695	425	487	-	2,621	2,669
1956-57.....	312	387	446	438	336	94	-	2,013	2,057	
<i>Hump- backs.</i>	1938-39.....	-	-	-	-	-	-	-	-	-
	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
	1955-56.....	-	-	-	-	-	-	-	-	-
1956-57.....	-	-	-	-	-	-	-	-	-	
<i>Sei- whales.</i>	1933-39.....	-	-	-	-	-	13	6	19	19
	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
	1955-56.....	-	-	-	31	132	121	-	284	284
1956-57.....	-	-	1	103	271	589	-	964	980	
<i>Sperm- whales.</i>	1933-39.....	-	1	4	5	5	87	15	117	117
	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
	1955-56.....	4	5	3	31	15	35	-	93	93
1956-57.....	-	16	12	20	19	17	-	84	84	

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

Species of whales and seasons.		Oct.	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	100.0	100.0
	1948-49	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
	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	0.8	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
	1955-56	0.3	—	0.4	—	—	0.2	—	0.1	0.1
1956-57	0.6	0.2	0.2	0.2	0.2	0.2	—	0.2	0.2	
<i>Fin-whales</i>	1938-39	100.0	96.7	70.2	88.0	86.7	61.5	36.8	78.0	78.0
	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
	1955-56	98.6	98.7	98.5	91.8	74.3	75.6	—	87.3	87.5
1956-57	99.4	95.8	97.0	77.9	53.6	13.4	—	65.6	65.8	
<i>Hump-backs</i>	1938-39	—	—	—	—	—	—	—	—	—
	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
	1955-56	—	—	—	—	—	—	—	—	—
1956-57	—	—	—	—	—	—	—	—	—	
<i>Sei-whales</i>	1938-39	—	—	—	—	—	3.8	15.8	1.1	1.1
	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
	1955-56	—	—	—	4.1	23.1	18.8	—	9.5	9.3
1956-57	—	—	0.2	18.3	43.2	84.0	—	31.4	31.3	
<i>Sperm-whales</i>	1938-39	—	0.4	0.9	1.5	2.3	25.4	39.5	7.0	7.0
	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
	1955-56	1.1	1.3	1.1	4.1	2.6	5.4	—	3.1	3.1
1956-57	—	4.0	2.6	3.6	3.0	2.4	—	2.8	2.7	

Table r.—South Georgia. Catch of immature and mature whales 1938/39 and 1948/49—1956/57.

	1938—39.		1948—49.		1949—50.		1950—51.		1951—52.		1952—53.		1953—54.		1954—55.		1955—56.		1956—57.	
	Number of whales.	Per cent.	Number of whales.	Per cent.	Number of whales.	Per cent.	Number of whales.	Per cent.	Number of whales.	Per cent.	Number of whales.	Per cent.	Number of whales.	Per cent.	Number of whales.	Per cent.	Number of whales.	Per cent.	Number of whales.	Per cent.
Blue-whales.																				
Immature																				
males	44	44.9	49	50.5	6	85.7	19	45.2	2	100.0	1	100.0	1	33.3	4	66.7	1	100.0	5	100.0
females	65	48.5	51	39.5	3	42.9	16	40.0	3	75.0	2	66.7	8	80.0	7	100.0	—	—	1	50.0
animals	109	47.0	100	44.2	9	64.3	35	42.7	5	83.3	3	75.0	9	69.2	11	84.6	1	33.3	6	85.7
Mature																				
males	54	55.1	48	49.5	1	14.3	23	54.8	—	—	—	—	2	66.7	2	33.3	—	—	—	—
females	69	51.5	78	60.5	4	57.1	24	60.0	1	25.0	1	33.3	2	20.0	—	—	2	100.0	1	50.0
animals	123	53.0	126	55.8	5	35.7	47	57.3	1	16.7	1	25.0	4	30.8	2	15.4	2	66.7	1	14.3
Fin-whales.																				
Immature																				
males	188	30.7	314	31.4	353	37.3	259	30.4	319	34.6	307	38.9	660	52.5	584	47.6	515	41.9	489	51.7
females	231	33.2	277	30.0	349	33.9	357	31.6	383	36.3	323	39.1	747	54.9	605	42.0	583	41.9	537	50.3
animals	419	32.1	591	30.8	702	35.5	616	31.1	702	35.5	630	39.0	1,407	53.8	1,189	44.5	1,098	41.9	1,026	51.0
Mature																				
males	424	69.3	686	68.6	594	62.7	593	69.6	604	65.4	482	61.1	597	47.5	643	52.4	715	58.1	457	48.3
females	464	66.8	645	70.0	681	66.1	773	68.4	671	63.7	503	60.9	613	45.1	837	58.0	808	58.1	530	49.7
animals	888	67.9	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	1,523	58.1	987	49.0

Table s.—Antarctic whaling results for the various countries 1937/38—1956/57. 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.
							Number of whales.	Oil production.	Number of whales.	Oil production.		
		Barrels. ¹⁾		Barrels. ¹⁾		Barrels. ¹⁾		Barrels. ¹⁾		Barrels. ¹⁾		Barrels. ¹⁾
1937-38.....	46,039	3,340,330 ²⁾	14,960 ³⁾	1,157,993	16,111	1,153,365	13,286	959,692	2,825	193,673	5,582	388,683
1938-39.....	38,356	2,820,771 ²⁾	11,521 ³⁾	842,712	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
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	578,757	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
1955-56.....	38,580	2,307,171	14,510	852,482	9,628	584,299	7,444	474,760	2,184	109,539	6,462	408,853
1956-57.....	36,115	2,246,922	15,043	1,004,373	7,862	468,517	6,266	381,931	1,596	86,586	8,093	492,507
<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
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	4.6	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
1955-56.....	100.0	100.0	37.6	36.9	25.0	25.3	19.3	20.6	5.7	4.7	16.7	17.7
1956-57.....	100.0	100.0	41.6	44.7	21.8	20.9	17.4	17.0	4.4	3.9	22.4	21.9

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. ¹⁾		Barrels. ¹⁾		Barrels. ¹⁾		Barrels. ¹⁾		Barrels. ¹⁾		Barrels. ¹⁾
1937-38....	1,062	51,766	5,237	356,858	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	-	-	-	-
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
1955-56....	812	43,376	-	-	2,730	160,960	-	-	1,665	103,465	2,773	153,736
1956-57....	1,108	51,330	-	-	-	-	-	-	1,409	92,489	2,600	137,706
<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	-	-	-	-
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
1955-56....	2.1	1.9	-	-	7.1	7.0	-	-	4.3	4.5	7.2	6.7
1956-57....	3.1	2.3	-	-	-	-	-	-	3.9	4.1	7.2	6.1

¹⁾ Barrel = 170 kg. (Barrel = abt. 1/6 long ton. 1 long ton = 1,016 kg.) ²⁾ Including the catch of two Norwegian expeditions hired by Germany—in 1937-38 2,158 whales and in 1938-39 1,658 whales. ³⁾ 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.¹⁾

Years.	South Georgia.	Pelagic whaling.	Years.	South Georgia.	Pelagic whaling.
	Barrels ²⁾	Barrels ²⁾		Barrels	Barrels
1924-25.....	87.5	85.0	1941-42.....	110.1	—
1925-26.....	84.0	84.8	1942-43.....	95.2	—
1926-27.....	96.4	91.1	1943-44.....	120.2	142.9
1927-28.....	106.4	92.8	1944-45.....	111.5	118.0
1928-29.....	108.2	98.3	1945-46.....	83.1	98.6
1929-30.....	110.7	109.6	1946-47.....	112.5	113.1
1930-31.....	100.1	105.6	1947-48.....	128.3	111.2
1931-32.....	92.9	102.6	1948-49.....	126.5	115.9
1932-33.....	86.5	114.6	1949-50.....	115.0	118.6
1933-34.....	91.8	111.9	1950-51.....	121.5	117.3
1934-35.....	105.1	102.2	1951-52.....	127.6	129.4
1935-36.....	95.5	101.6	1952-53.....	126.3	128.0
1936-37.....	104.5	111.7	1953-54.....	121.1	128.6
1937-38.....	95.7	111.1	1954-55.....	124.6	117.3
1938-39.....	117.6	107.1	1955-56.....	123.6	121.6
1939-40.....	106.1	117.2	1956-57.....	122.9	128.7
1940-41.....	109.1	105.8			

¹⁾ Other whales are reduced to blue-whale units on the following basis: — 1 blue-whale = 2 fin-whales = 2½ humpbacks = 6 sei-whales. ²⁾ Barrel = 170 kg. (Barrel = abt. ¼ long ton. 1 long ton = 1,016 kg.)

In 1956-57 54.3 per cent of all blue-whales killed were killed in area I against 30.4 per cent during the season 1955-56. Of the fin-whales killed 46.3 per cent were taken in area II against 26.9 per cent during the preceding season. Also in area I the proportion of fin-whales increased, viz. to 36.6 per cent from 25.2 per cent in 1955-56. On the other hand, there was a considerable decrease in the fin-whale catch in areas III, IV, and V.

The taking of humpback whales is prohibited between 0° and 70° West (area II). The humpback catch during the last three seasons was divided over the individual areas as follows:

	Season 1954-55		Season 1955-56		Season 1956-57	
	Number of humpbacks killed	Per cent	Number of humpbacks killed	Per cent	Number of humpbacks killed	Per cent
Total.....	492	100.0	1,425	100.0	673	100.0
Of which in:						
Area I....	—	—	70	4.9	665	98.8
„ II....	2	0.4	—	—	—	—
„ III....	142	28.9	64	4.5	8	1.2
„ IV....	—	—	824	57.8	—	—
„ V....	348	70.7	467	32.8	—	—

Table m, page 26, contains a summary of the aggregate catch of blue-, fin-, humpback-, and sperm-whales in the individual areas throughout the entire period 1931/32-1956/57. During this period a total number of

542,003 baleen whales (excluding sei-whales) have been killed. In the survey below the percentage proportion of the catch specified for each area in the entire period is compared with the corresponding figures for the two last seasons:

Area	I	Blue-, fin- and humpback-whales killed					
		Seasons 1931/32-1956/57		Season 1955/56		Season 1956/57	
	I	3.3	per cent	24.5	per cent	39.1	per cent
„	II	28.9	„ „	25.5	„ „	43.9	„ „
„	III	37.6	„ „	26.5	„ „	14.8	„ „
„	IV	21.5	„ „	15.5	„ „	1.3	„ „
„	V	8.7	„ „	8.0	„ „	0.9	„ „

It will be seen from these figures that the catch in area I during the period 1931/32-1956/57 represented only 3.3 per cent of the total pelagic catch during the same years. This is a consequence of the preservation of baleen whales in this area since 1938, pursuant to the International Whaling Convention. However, even during the seasons prior to 1938, the whaling activities in area I were quite insignificant, as it will appear from table *l*.

Table *n*, page 27, 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 from South Georgia for each season since 1919-20 are given in table *o*, page 28. During all the post-war seasons 3 shore stations have carried on whaling from South Georgia, and since 1947-48 each of the stations has been operating with 7 catchers. In 1956-57 3,128 whales were killed, against 3,049 whales in the preceding season. During the 11 post-war seasons 1946/47-1956/57 the annual average number of whales killed has been about 3,000. During the earlier of these post-war seasons quite a considerable number of blue-whales was killed off South Georgia, viz. 327 in 1946-47, 226 in 1948-49 and 82 in 1950-51. During later seasons the blue-whale catch has been insignificant. In 1956-57 only 7 blue-whales were killed. The fin-whale is the prevailing species killed in the pelagic operations as well as off South Georgia, but on this ground the catch of sei-whales is also important. During all the post-war seasons a greater number of sei-whales has been killed here than in pelagic whaling.

The oil production amounted to 144,261 barrels of whale-oil and 3,807 barrels of sperm-oil, or a total of 148,068 barrels. During the previous season the output was 168,244 barrels of whale-oil and 4,119 barrels of sperm-oil, or a total of 172,363 barrels.

Table u.—Average weekly production of whale-oil per blue-whale unit in the pelagic whaling 1955-56 and 1956-57.

Season 1955-56.				Season 1956-57.			
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.
7/1 1956	20,881	323.6	64.5	12/1 1957	187,393	1,671.5	112.5
14/1 "	185,411	1,791.7	103.5	19/1 "	184,289	1,545.0	119.3
21/1 "	211,830	1,909.0	111.0	26/1 "	167,677	1,334.5	125.6
28/1 "	184,422	1,640.8	112.4	2/2 "	174,703	1,521.0	114.9
4/2 "	233,383	2,049.4	113.9	9/2 "	243,596	1,891.7	128.8
11/2 "	219,015	1,701.8	128.7	16/2 "	266,773	2,023.7	131.8
18/2 "	239,429	1,842.6	129.9	23/2 "	218,591	1,557.7	140.3
25/2 "	224,797	1,664.8	135.0	2/3 "	166,059	1,185.6	140.1
3/3 "	245,153	1,637.8	149.7	9/3 "	121,616	886.6	137.2
4/3 "	29,310	217.4	134.8	16/3 "	152,235	1,018.9	149.4
Total	1,793,631	14,778.9	121.4	Total	1,882,932	14,636.2	128.6

Tables *p* and *q*, pages 29 and 30, give the catch off South Georgia by months in absolute and percentage figures for 1938-39 and for the post-war seasons from and including 1948-49. Table *r*, page 31 shows the proportion of mature and immature animals killed.

In table *s*, pages 32 and 33, the total whaling results in the Antarctic from 1937-38 up to and including 1956-57 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:—

	Oil production during the last 4 seasons			
	1953-54 Per cent	1954-55 Per cent	1955-56 Per cent	1956-57 Per cent
Norway	45.0	38.8	36.9	44.7
British Commonwealth	30.0	25.5	25.3	20.9
Japan	11.0	16.3	17.7	21.9
Panama	—	6.6	7.0	—
U.S.S.R.	7.4	7.7	6.7	6.1
Netherlands	4.3	2.9	4.5	4.1
Argentina	2.3	2.2	1.9	2.3

The average output of whale-oil per blue-whale unit for South Georgia and for the pelagic expeditions from and including the season 1924-25 has been recorded in table *t*, page 34. For pelagic whaling the average output was 128.7 barrels per blue-whale unit during the season 1956-57,

Table v.—Production of by-products in the Antarctic whaling in the seasons 1945/46—1956/57.

By-products Seasons Countries	Whale meat-meal, bone-meal, grax meal, guano	Whale liver or liver flakes	Liver- oil	Liver meal	Meat extract, liver extract	Whalemeat, blubber, ventral grooves	Whale solubles	Other by- products ¹
	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..... Total	25,821	841	264	622	44	28,389	2,444	946
1951-52..... 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
1955-56.								
Norway.....	10,249	134	63	—	82	104	1,101	30
United Kingdom ..	21,455	—	37	162	183	2,932	6,445	6
Union of S. Africa .	3,404	—	29	—	—	—	—	—
Netherlands.....	1,936	—	14	—	—	—	—	—
U.S.S.R.	2,021	621	—	—	—	497	—	—
Panama.....	—	—	15	—	—	—	—	70
Japan.....	—	—	94	—	—	42,302	—	2,437
Argentina.....	4,124	—	—	—	—	—	—	7
Total	43,189	755	252	162	265	45,835	7,546	2,550
1956-57.								
Norway.....	9,859	104	49	—	136	365	1,520	18
United Kingdom ..	18,156	56	39	156	225	5,060	5,006	14
Union of S. Africa .	3,557	—	18	—	—	—	—	—
Netherlands.....	2,380	—	13	—	—	—	—	54
U.S.S.R.	2,471	532	—	—	—	—	—	—
Japan.....	—	—	136	—	—	65,295	—	4,420
Argentina.....	6,312	—	—	—	—	—	—	4
Total	42,735	692	255	156	361	70,720	6,526	4,510

¹) Products such as: Sinews, teeth, baleen, ambergris, pancreas processed bone, bone fertilizer, protein, hypophyses, internal organs, blubber for leather, gelatin material, tail flukes, etc.

against 121.6 barrels during the preceding season. In the survey below is given the average output of oil per blue-whale unit in the individual areas from and including the season 1951-52.

Season	Average oil output per blue-whale unit during the last 6 seasons					
	Area II Barrels	Area III Barrels	Area IV Barrels	Area V Barrels	Area I Barrels	Total Barrels
1951-52	141.5	129.9	115.2	126.7	—	129.4
1952-53	149.9	120.2	117.4	129.8	—	128.0
1953-54	137.4	129.0	114.1	116.5	—	128.6
1954-55	133.4	112.2	115.3	113.7	—	117.3
1955-56	127.5	113.7	105.6	110.8	135.8	121.6
1956-57	130.4	139.3	146.5	65.8	123.4	128.7

In areas IV and V the average output of oil per blue-whale unit during the last season was 146.5 and 65.8 barrels respectively. However, on account of the insignificant catch in these areas, these figures are of little consequence. In area I the average oil output declined from 135.8 barrels in 1955-56 to 123.4 barrels during the last season. One of the reasons for the higher output in this area during the previous season might presumably be ascribed to the fact that the majority of the whales were killed during the latest weeks of the season, when the animals, as known, are fattest. During the last season, however, the whaling results in area I were lower towards the end of the season than at the beginning. In area III the output increased from 113.7 barrels in 1955-56 to 139.3 barrels in 1956-57, but, as previously mentioned, the catch was relatively small also on this ground. In this area the majority of the whales were killed during the later part of the season. In area II the output of oil increased from 127.5 to 130.4 barrels.

Table *u*, page 36, shows the average *weekly* production of whale-oil per blue-whale unit for the pelagic expeditions during the seasons 1955-56 and 1956-57. It will appear from this table that the average weekly yield per blue-whale unit during the season 1955-56 increased from 103.5 barrels during the week 8/1-14/1 to 149.7 barrels during the last week 26/2-3/3. In 1956-57 the output increased from 112.5 barrels during the week 7/1-12/1 to 149.4 barrels during the last week 10/3-16/3.

In table *v*, page 37, detailed information is given on the production of by-products in the Antarctic whaling. These data cover the post-war years 1945/46-1956/57, from and including 1952/53 distributed in respect to the individual countries.

From the survey on page 39 will be seen the number of men of different nationalities employed in the Antarctic whaling industry during the seasons 1954-55, 1955-56 and 1956-57. The figures include the crews employed on the freezing- and refrigeratorships operating in the Antarctic.

Nationality	Number of men employed in the Antarctic whaling industry					
	Season 1954-55		Season 1955-56		Season 1956-57	
	Number	Per cent	Number	Per cent	Number	Per cent
Norwegian	7,279	50.9	7,594	50.4	7,299	44.2
Japanese	3,795	26.6	4,071	27.0	6,486	39.3
British	1,239	8.7	1,198	8.0	1,144	6.9
Russian	754	5.3	754	5.0	820	5.0
Others.....	1,215	8.5	1,451	9.6	758	4.6
Total.....	14,282	100.0	15,068	100.0	16,507	100.0

Table No. 1.—Whaling in the Antarctic in the season 1956/57.

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	7	2,057	—	980	84	3,128	148,068	3	—	21
Antarctic, pelagic whaling	1,505	25,700	679	712	4,345	²⁾ 32,941	2,098,854	—	20	225
Total	1,512	27,757	679	1,692	4,429	36,069	2,246,922	3	20	246

¹⁾ Barrel = 170 kg. (Barrel = abt. $\frac{1}{8}$ long ton, 1 long ton = 1,016 kg.) ²⁾ In addition 46 Minke-whales and 54 killer-whales.

Table No. 2.—Whaling results for the various countries in the Antarctic in the season 1956/57.

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 ¹⁾			
South Georgia	3	676	—	323	33	1,035	48,774	1	—	7
Antarctic, pelagic	623	11,062	190	109	2,024	14,008	955,599	—	9	94
Japan:—										
Antarctic, pelagic	611	5,849	71	133	1,429	8,093	492,507	—	5	54
British Commonwealth:—										
South Georgia	3	652	—	311	19	985	47,964	1	—	7
Antarctic, pelagic	122	5,479	366	262	648	6,877	420,553	—	4	45
Of which:—										
United Kingdom:—										
South Georgia	3	652	—	311	19	985	47,964	1	—	7
Antarctic, pel.	113	4,098	353	144	573	5,281	333,967	—	3	35
Union of S. Africa:—										
Antarctic, pel.	9	1,381	13	118	75	1,596	86,586	—	1	10
U.S.S.R.:—										
Antarctic, pelagic	68	2,158	—	204	124	²⁾ 2,554	137,706	—	1	18
The Netherlands:—										
Antarctic, pelagic	81	1,152	52	4	120	³⁾ 1,409	³⁾ 92,489	—	1	14
Argentina:—										
South Georgia	1	729	—	346	32	1,108	51,330	1	—	7
Total	1,512	27,757	679	1,692	4,429	36,069	2,246,922	3	20	246

¹⁾ Barrel = 170 kg. (Barrel = abt. $\frac{1}{8}$ long ton, 1 long ton = 1,016 kg.) ²⁾ In addition 46 Minke-whales and 54 killer-whales. ³⁾ Excluding 25 sperm-whales killed and 1,704 barrels of oil produced in South Atlantic on voyage from the Antarctic whaling grounds.

Table No. 3.—Average size of whales caught in the Antarctic in the season 1956/57.

Geographical areas. Number of whales measured.	Company.	Average size.		
		Males.	Females.	Total animals.
Blue-whales.				
<i>South Georgia</i>	No. 1	Engl. feet. 66.00	Engl. feet. 88 00	Engl. feet. 73.33
Males 5 } Total 7.	" 2	71.00	—	71.00
Females 2 }	" 3	70.00	71.00	70.33
Average		68.60	79.50	71.71
<i>Antarctic, pelagic whaling</i>	No. 1	76.86	8 0.70	79.04
Males 796 } Total 1,505	" 2	75 70	82.35	78.99
Females 709 }	" 3	79,21	77.40	78.51
	" 4	76.75	79.85	78.36
	" 5	75 80	80.25	78.11
	" 6	75.67	79.71	77.85
	" 7	75.65	79.15	77 51
	" 8	75.67	78.33	77.44
	" 9	77.10	77.95	77.43
	" 10	76.50	77.95	77.10
	" 11	76.63	77.36	76.96
	" 12	74.08	80.89	76.86
	" 13	76.11	77.60	76.85
	" 14	74.83	78.46	76.52
	" 15	75.00	76.97	75.96
	" 16	75.88	75.85	75.87
	" 17	74,32	76.28	75.21
	" 18	74.96	74.55	74.78
	" 19	74.71	73.50	74.35
	" 20	69.33	77.00	71.88
Average		75.80	78.38	77.01
Fin-whales.				
<i>South Georgia</i>	No. 1	63.15	66.22	64.92
Males 946 } Total 2,013.	" 2	62.42	64.88	63.69
Females 1,067 }	" 3	61.99	63.93	62.96
Average		62.46	65.02	63.81
<i>Antarctic, pelagic whaling</i>	No. 1	66 68	70.43	68.66
Males 12,924 } Total 25,502.	" 2	66.65	70.57	68.52
Females 12,578 }	" 3	65.91	70.44	68.46
	" 4	66.36	70.31	68.35
	" 5	66.24	69.67	67.71
	" 6	66.01	69.38	67.70
	" 7	65.89	69 10	67.38
	" 8	65.74	68.87	67.12
	" 9	65.06	69.02	67.08
	" 10	64.76	68 71	66.86
	" 11	65.51	68.38	66.78
	" 12	65.04	68 93	66.75
	" 13	64.90	68.03	66.45
	" 14	64.98	67.70	66 19
	" 15	64.34	67.53	66.08
	" 16	64.94	67.08	65.94
	" 17	64.52	67.59	65.87
	" 18	64.60	67.14	65.85
	" 19	64.57	67.05	65.80
	" 20	63.77	66.30	65.00
Average		65.25	68.56	66.89

Table No 3. (continued).

Geographical areas. Number of whales measured.	Company.	Average size.		
		Males.	Females.	Total animals.
<u>Humpbacks.</u>				
<i>Antarctic, pelagic whaling</i>	No. 1	41.00	43.50	43.00
Males 326 } Total 673.	" 2	41.67	46.00	42.75
Females 347 }	" 3	40.17	44.14	42.31
	" 4	42.35	41.79	42.12
	" 5	40.83	42.83	41.96
	" 6	41.47	42.80	41.60
	" 7	40.65	42.25	41.43
	" 8	41.25	42.00	41.40
	" 9	39.48	40.92	40.22
	" 10	39.84	40.07	39.97
	" 11	40.00	39.50	39.67
	" 12	41.00	37.00	39.67
Average		40.70	42.12	41.43
<u>Sei-whales.</u>				
<i>South Georgia</i>	No. 1	48.21	51.22	50.17
Males 349.	" 2	47.37	50.62	49.48
	" 3	47.01	50.06	48.89
Average		47.50	50.63	49.50
<i>Antarctic, pelagic whaling</i>	No. 1	41.00	56.00	52.25
Males 243 } Total 708.	" 2	50.00	54.00	52.00
Females 465 }	" 3	49.05	53.20	52.00
	" 4	49.50	51.62	51.36
	" 5	49.23	52.51	51.31
	" 6	48.00	52.00	51.20
	" 7	48.50	51.47	51.16
	" 8	49.14	52.28	51.15
	" 9	—	51.00	51.00
	" 10	49.00	51.69	50.94
	" 11	47.69	51.64	50.42
	" 12	49.16	50.72	50.22
	" 13	—	50.20	50.20
	" 14	48.40	50.90	50.19
	" 15	48.22	51.90	50.16
	" 16	—	50.00	50.00
	" 17	48.59	50.38	49.55
	" 18	44.00	—	44.00
Average		48.68	51.27	50.38
<u>Sperm-whales.</u>				
<i>South Georgia</i>	No. 1	46.66	—	46.66
Males 84	" 2	46.47	—	46.47
	" 3	44.30	—	44.30
Average		45.69	—	45.69

Table No. 3. (continued).

Geographical areas. Number of whales measured.	Company.	Average size.		
		Males.	Females.	Total animals.
<i>Antarctic, pelagic whaling</i> Males 4,335.	No. 1	Engl. feet 50.87	Engl. feet —	Engl. feet 50.87
	" 2	49.96	—	49.96
	" 3	49.96	—	49.96
	" 4	49.72	—	49.72
	" 5	49.35	—	49.35
	" 6	49.13	—	49.13
	" 7	48.96	—	48.96
	" 8	48.91	—	48.91
	" 9	48.90	—	48.90
	" 10	48.62	—	48.62
	" 11	48.61	—	48.61
	" 12	48.49	—	48.49
	" 13	48.40	—	48.40
	" 14	48.24	—	48.24
	" 15	48.18	—	48.18
	" 16	48.15	—	48.15
	" 17	47.88	—	47.88
	" 18	47.85	—	47.85
	" 19	47.80	—	47.80
	" 20	47.29	—	47.29
Average		48.67	—	48.67

Table No. 4.—Whales caught in the Antarctic in the season 1956/57, 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	38	23	61
62	1	—	1	83	23	25	48
63	1	—	1	84	10	17	27
64	5	2	7	85	14	37	51
65	3	6	9	86	5	38	43
66	8	6	14	87	2	27	29
67	9	11	20	88	3	33	36
68	8	5	13	89	2	10	12
69	3	4	7	90	—	12	12
70	64	61	125	91	—	7	7
71	67	40	107	92	—	6	6
72	51	38	89	93	—	4	4
73	52	35	87	94	—	2	2
74	52	33	85	96	—	2	2
75	62	39	101	Sum	801	711	1,512
76	69	33	102	Average size { Males: 75.75 feet Females: 78.38 " Total animals: 76.99 "			
77	54	37	91				
78	57	35	92	Per cent { Males: 52.98 Females: 47.02			
79	52	24	76				
80	50	33	83				
81	35	26	61				

Table No. 4 (continued).

Fin-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
46	1	—	1	70	914	977	1,891
48	1	2	3	71	447	952	1,399
49	—	1	1	72	261	1,002	1,263
50	4	4	8	73	121	944	1,065
51	7	11	18	74	49	900	949
52	18	17	35	75	21	772	793
53	19	18	37	76	6	552	558
54	55	35	90	77	3	291	294
55	46	39	85	78	2	197	199
56	20	16	36	79	1	103	104
57	549	418	967	80	1	52	53
58	537	414	951	81	—	19	19
59	458	378	836	82	—	3	3
60	620	536	1,156	83	—	2	2
61	557	409	966	Sum	13,870	13,645	27,515
62	686	501	1,187	Average size { Males: 65.06 feet			
63	846	516	1,362	{ Females: 68.29 "			
64	1,019	503	1,522	{ Total animals: 66.66 "			
65	1,270	533	1,803	Per cent { Males: 50.41			
66	1,355	535	1,890	{ Females: 49.59			
67	1,450	609	2,059				
63	1,445	694	2,139				
69	1,081	690	1,771				

Humpbacks.

30	1	1	2	45	17	34	51
31	—	1	1	46	4	27	31
32	3	1	4	47	2	16	18
33	—	1	1	48	1	11	12
34	—	1	1	49	—	5	5
35	17	12	29	50	—	1	1
36	15	8	23	51	—	1	1
37	11	17	28	Sum	326	347	673
38	20	26	46	Average size { Males: 40.70 feet			
39	18	10	28	{ Females: 42.12 "			
40	56	24	80	{ Total animals: 41.43 "			
41	46	30	76	Per cent { Males: 48.44			
42	53	44	97	{ Females: 51.56			
43	32	41	73				
44	30	35	65				

Sei-whales.

36	—	1	1	53	11	157	168
39	2	—	2	54	4	96	100
40	4	3	7	55	3	49	52
41	8	2	10	56	1	14	15
42	11	4	15	57	—	4	4
43	13	11	24	58	—	4	4
44	17	10	27	63	—	1	1
45	28	15	43	Sum	592	1,080	1,672
46	54	28	82	Average size { Males: 47.98 feet			
47	86	48	134	{ Females: 50.91 "			
48	110	75	185	{ Total animals: 49.87 "			
49	93	71	164	Per cent { Males: 35.41			
50	89	148	237	{ Females: 64.59			
51	38	171	209				
52	20	168	188				

Table No. 4 (continued).

Sperm-whales.

Engl. feet.	Number of males.	Engl. feet.	Number of males.
35	1	50	605
37	1	51	448
38	6	52	341
39	2	53	208
40	26	54	121
41	31	55	77
42	65	56	24
43	119	57	6
44	175	58	3
45	280	Sum	4,419
46	401	Average size:	
47	445	Males: 48.61 feet.	
48	520		
49	514		

a. South Georgia.

Blue-whales.

Engl. feet.	Number of		Total animals.	Average size
	males.	females.		
62	1	—	1	Males: 68.60 feet Females: 79.50 " Total animals: 71.71 "
70	3	—	3	
71	1	1	2	
88	—	1	1	Per cent { Males: 71.43 Females: 28.57
Sum	5	2	7	

Fin-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
48	1	—	1	68	42	38	80
49	—	1	1	69	39	49	88
50	3	—	3	70	30	63	93
51	—	3	3	71	15	42	57
52	2	1	3	72	10	38	48
53	1	1	2	73	4	39	43
54	2	—	2	74	1	45	46
55	1	—	1	75	1	26	27
56	—	—	—	76	1	18	19
57	137	113	250	77	—	7	7
58	100	71	171	78	—	10	10
59	63	53	116	79	—	4	4
60	84	87	171	80	—	2	2
61	52	45	97	Sum	946	1,067	2,013
62	43	59	102	Average size { Males: 62.46 feet Females: 65.02 " Total animals: 63.81 "			
63	53	57	110	Per cent { Males: 46.99 Females: 53.01			
64	59	46	105				
65	81	45	126				
66	72	55	127				
67	49	49	98				

Table No. 4 (continued).

Sei-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
36	—	1	1	53	3	74	77
39	1	—	1	54	—	58	58
40	4	3	7	55	—	25	25
41	5	2	7	56	—	6	6
42	10	4	14	57	—	2	2
43	10	4	14	58	—	2	2
44	10	5	15				
45	19	11	30	Sum	349	615	964
46	44	19	63				
47	56	32	88				
48	58	46	104	Average size	{	Males: 47.50 feet	
49	53	49	102			Females: 50.63 "	
50	49	92	141			Total animals: 49.50 "	
51	23	95	118	Per cent	{	Males: 36.20	
52	4	85	89			Females: 63.80	

Sperm-whales.

Engl. feet.	Number of males.	Engl. feet.	Number of males.
37	1	47	8
38	2	48	10
39	2	49	6
40	9	50	6
41	5	51	2
42	5	52	5
43	2	53	1
44	4	54	2
45	7		
46	7	Sum	84

Average size: Males: 45.69 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	84	10	17	27
63	1	—	1	85	14	37	51
64	5	2	7	86	5	38	43
65	3	6	9	87	2	27	29
66	8	6	14	88	3	32	35
67	9	11	20	89	2	10	12
68	8	5	13	90	—	12	12
69	3	4	7	91	—	7	7
70	61	61	122	92	—	6	6
71	66	39	105	93	—	4	4
72	51	38	89	94	—	2	2
73	52	35	87	96	—	2	2
74	52	33	85				
75	62	39	101				
76	69	33	102	Sum	796	709	1,505
77	54	37	91				
78	57	35	92				
79	52	24	76				
80	50	33	83				
81	35	26	61				
82	38	23	61				
83	23	25	48				

Average size	{	Males:	75.80 feet
		Females:	78.38 "
		Total animals:	77.01 "
Per cent	{	Males:	52.89
		Females:	47.11

Fin-whales.

46	1	—	1	71	432	910	1,342
48	—	2	2	72	251	964	1,215
50	1	4	5	73	117	905	1,022
51	7	8	15	74	48	855	903
52	16	16	32	75	20	746	766
53	18	17	35	76	5	534	539
54	53	35	88	77	3	284	287
55	45	39	84	78	2	187	189
56	20	16	36	79	1	99	100
57	412	305	717	80	1	50	51
58	437	343	780	81	—	19	19
59	395	325	720	82	—	3	3
60	536	449	985	83	—	2	2
61	505	364	869	Sum	12,924	12,578	25,502
62	643	442	1,085				
63	793	459	1,252				
64	960	457	1,417				
65	1,189	488	1,677				
66	1,283	480	1,763				
67	1,401	560	1,961				
68	1,403	656	2,059				
69	1,042	641	1,683				
70	884	914	1,798				

Average size	{	Males:	65.25 feet
		Females:	68.56 "
		Total animals:	66.89 "
Per cent	{	Males:	50.68
		Females:	49.32

Table No. 4 (continued).

Humpbacks.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
30	1	1	2	45	17	34	51
31	—	1	1	46	4	27	31
32	3	1	4	47	2	16	18
33	—	1	1	48	1	11	12
34	—	1	1	49	—	5	5
35	17	12	29	50	—	1	1
36	15	8	23	51	—	1	1
37	11	17	28	Sum	326	347	673
38	20	26	46	Average size	{	Males:	40.70 feet.
39	18	10	28			Females:	42.12 "
40	56	24	80			Total animals:	41.43 "
41	46	30	76	Per cent	{	Males:	48.44
42	53	44	97			Females:	51.56
43	32	41	73				
44	30	35	65				

Sei-whales.

39	1	—	1	54	4	38	42
41	3	—	3	55	3	24	27
42	1	—	1	56	1	8	9
43	3	7	10	57	—	2	2
44	7	5	12	58	—	2	2
45	9	4	13	63	—	1	1
46	10	9	19	Sum	243	465	708
47	30	16	46	Average size	{	Males:	48.68 feet.
48	52	29	81			Females:	51.27 "
49	40	22	62			Total animals:	50.38 "
50	40	56	96	Per cent	{	Males:	34.32
51	15	76	91			Females:	65.68
52	16	83	99				
53	8	83	91				

Sperm-whales.

Engl. feet.	Number of males.	Engl. feet.	Number of males.
35	1	51	446
38	4	52	336
40	17	53	207
41	26	54	119
42	60	55	77
43	117	56	24
44	171	57	6
45	273	58	3
46	394	Sum	4,335
47	437		
48	510	Average size:	
49	508	Males:	48.67 feet.
50	599		

**Table No. 5.—Whales caught in the Antarctic in the season 1956/57,
by species, sex and groups of size.**

Total Antarctic.

Blue-whales.

	Number of whales.	Per cent.
Group 1. (70 feet and less).....	198	13.10
" 2. (71 feet to and incl. 85 feet)	1,161	76.78
" 3. (above 85 feet).....	153	10.12
	1,512	100.00
Immature males	273	34.08
" females	313	44.02
" animals	586	38.76
Mature males	528	65.92
" females	398	55.98
" animals	926	61.24

Fin-whales.

	Number of whales.	Per cent.
Group 1. (55 feet and less)	278	1.01
" 2. (56 feet to and incl. 65 feet).....	10,786	39.20
" 3. (above 65 feet).....	16,451	59.79
	27,515	100.00
Immature males.....	3,578	25.80
" females	3,818	27.98
" animals.....	7,396	26.88
Mature males	10,292	74.20
" females.....	9,827	72.02
" animals	20,119	73.12

a. South Georgia.

Blue-whales.

	Number of whales.	Per cent.
Group 1. (70 feet and less).....	4	57.14
" 2. (71 feet to and incl. 85 feet).....	2	28.57
" 3. (above 85 feet).....	1	14.29
	7	100.00
Immature males.....	5	100.00
" females	1	50.00
" animals.....	6	85.71
Mature males	—	—
" females	1	50.00
" animals	1	14.29

Table No. 5 (continued).

Fin-whales.

	Number of whales.	Per cent.
Group 1. (55 feet and less)	16	0.79
„ 2. (56 feet to and incl. 65 feet)	1,248	62.00
„ 3. (above 65 feet)	749	37.21
	2,013	100.00
Immature males	489	51.69
„ females	537	50.33
„ animals	1,026	50.97
Mature males	457	48.31
„ females	530	49.67
„ animals	987	49.03

b. Antarctic, pelagic whaling.

Blue-whales.

	Number of whales.	Per cent.
Group 1. (70 feet and less)	194	12.89
„ 2. (71 feet to and incl. 85 feet)	1,159	77.01
„ 3. (above 85 feet)	152	10.10
	1,505	100.00
Immature males	268	33.67
„ females	312	44.01
„ animals	580	38.54
Mature males	528	66.33
„ females	397	55.99
„ animals	925	61.46

Fin-whales.

	Number of whales.	Per cent.
Group 1. (55 feet and less)	262	1.03
„ 2. (56 feet to and incl. 65 feet)	9,538	37.40
„ 3. (above 65 feet)	15,702	61.57
	25,502	100.00
Immature males	3,089	23.90
„ females	3,281	26.10
„ animals	6,370	24.98
Mature males	9,835	76.10
„ females	9,297	73.90
„ animals	19,132	75.02

Table No. 6.—Average production of oil per blue-whale unit in the Antarctic in the season 1956/57.

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

Geographical areas.	Company.	Blue-whale units. ¹⁾	Oil production.	
			Total.	Average per blue-whale unit.
			Barrels. ²⁾	Barrels. ²⁾
<i>South Georgia</i>	No. 1	370.3	47,129	127.3
	” 2	385.8	47,381	122.8
	” 3	418.0	49,751	119.0
	Total	1,174.1	144,261	122.9
<i>Antarctic, pelagic whaling</i>	No. 1	648.2	99,944	154.2
	” 2	897.8	129,471	144.2
	” 3	887.2	126,628	142.7
	” 4	738.5	103,388	140.0
	” 5	318.0	43,911	138.1
	” 6	734.2	100,912	137.4
	” 7	627.0	85,565	136.5
	” 8	607.2	82,459	135.8
	” 9	573.6	77,352	134.9
	” 10	839.5	111,918	133.3
	” 11	672.6	87,643	130.3
	” 12	793.4	100,078	126.1
	” 13	605.5	75,406	124.5
	” 14	834.5	101,353	121.5
	” 15	528.4	64,118	121.3
	” 16	986.5	114,996	116.6
	” 17	713.0	82,567	115.8
	” 18	789.7	90,353	114.4
	” 19	668.4	74,764	111.9
	” 20	1,180.0	131,135	111.1
Total		14,643.2	1,883,961	128.7

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

Table No. 7.—Size of pregnant whale females caught in the Antarctic in the season 1956/57.

Blue-whale females.

Length of mothers.	Number of pregnant animals.	Length of mothers.	Number of pregnant animals.	Number of foetuses measured
Engl. feet.		Engl. feet.		
70	1	85	21	209
73	2	86	23	
74	3	87	18	4
75	3	88	24	
76	4	89	5	Total number of blue-whale females measured 709, of which pregnant animals 205, or 28.91 per cent.
77	4	90	10	
78	10	91	5	Total number of mature blue-whale females (above 76 feet) measured 397, of which pregnant animals 196, or 49.37 per cent.
79	3	92	3	
80	16	93	1	
81	12	94	1	
82	10	96	1	
83	15			
84	10			
		Total	205	

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 foetuses measured 5,590
57	4	72	630	of which twin pairs 67
58	1	73	582	» » triplets 1
59	5	74	563	
60	12	75	497	Total number of fin-whale females measured 12,578, of which pregnant animals 5,521, or 43.89 per cent.
61	7	76	371	
62	21	77	200	
63	45	78	144	
64	64	79	70	
65	109	80	35	Total number of mature fin-whale females (above 64 feet) measured 9,297, of which pregnant animals 5,426, or 58.36 per cent.
66	146	81	14	
67	218	82	2	
68	321	83	2	
69	338			
70	539			
71	581	Total	5,521	

Humpback females.

Length of mothers.	Number of pregnant animals.	Length of mothers.	Number of pregnant animals.	
Engl. feet.		Engl. feet.		Number of foetuses measured 144
35	1	44	19	of which twin pairs 1
36	1	45	24	Total number of humpback females measured 347, of which pregnant animals 143, or 41.21 per cent.
37	1	46	15	
38	2	47	6	
39	2	48	4	Total number of mature humpback females (above 40 feet) measured 245, of which pregnant animals 136, or 55.51 per cent.
40	9	49	2	
41	10			
42	26	Total	143	
43	21			

Sei-whale females.

Length of mothers.	Number of pregnant animals.	Length of mothers.	Number of pregnant animals.	
Engl. feet.		Engl. feet.		Number of foetuses measured 433
45	2	53	68	of which twin pairs 8
46	6	54	46	
47	9	55	28	
48	24	56	8	
49	21	57	1	
50	53	58	3	
51	75			
52	81	Total	425	

Table No. 8.—Whale foetuses measured in the Antarctic in the season 1956/57, by species and groups of size, in each month.

Blue-whale foetuses.

Groups of size. Engl. feet.	February	March	Total
3'— 3' 11".....	3	1	4
4'— 4' 11".....	3	—	3
5'— 5' 11".....	2	1	3
6'— 6' 11".....	8	2	10
7'— 7' 11".....	7	3	10
8'— 8' 11".....	13	2	15
9'— 9' 11".....	10	1	11
10'—10' 11".....	13	5	18
11'—11' 11".....	14	4	18
12'—12' 11".....	18	1	19
13'—13' 11".....	15	2	17
14'—14' 11".....	9	6	15
15'—15' 11".....	16	10	26
16'—16' 11".....	7	2	9
17'—17' 11".....	4	3	7
18'—18' 11".....	4	3	7
19'—19' 11".....	3	1	4
20'—20' 11".....	5	2	7
21'—21' 11".....	2	1	3
22'—22' 11".....	1	—	1
23'—23' 11".....	1	—	1
24'—24' 11".....	1	—	1
Total blue-whale foetuses.....	159	50	209
Average size of foetuses.....	12' 2"	13' 1"	12' 8"

Fin-whale foetuses.

Groups of size. Engl. feet.	Oct.	Nov.	Dec.	Jan.	Febr.	March	Total
Less than 1'.....	6	—	2	16	3	—	27
1'— 1' 11".....	6	4	6	53	25	4	98
2'— 2' 11".....	10	10	4	93	75	11	203
3'— 3' 11".....	6	10	8	162	94	12	292
4'— 4' 11".....	1	6	4	201	141	30	383
5'— 5' 11".....	1	11	7	283	147	38	487
6'— 6' 11".....	—	7	13	280	187	58	545
7'— 7' 11".....	1	3	5	245	199	47	500
8'— 8' 11".....	—	1	1	263	218	44	527
9'— 9' 11".....	—	—	1	250	216	40	507
10'—10' 11".....	—	—	1	226	236	69	532
11'—11' 11".....	—	—	1	124	199	39	363
12'—12' 11".....	1	—	—	84	225	62	372
13'—13' 11".....	—	—	—	38	164	60	262
14'—14' 11".....	—	—	—	22	101	74	197
15'—15' 11".....	—	—	—	3	76	53	132
16'—16' 11".....	—	—	—	3	38	41	82
17'—17' 11".....	1	—	—	—	18	23	42
18'—18' 11".....	—	—	—	—	11	17	28
19'—19' 11".....	—	—	—	1	2	3	6
20'—20' 11".....	—	—	—	—	2	2	4
21'—21' 11".....	—	—	—	—	1	—	1
Total fin-whale foetuses.....	33	52	53	2,347	2,378	727	5,590
Average size of foetuses.....	2' 9"	3' 11"	4' 7"	7' 1"	9' 0"	10' 8"	8' 3"

Table No. 8 (continued).

Humpback foetuses.

Groups of size.	Febr.
Engl. feet.	
Less than 1'.....	2
1'—1' 11".....	14
2'—2' 11".....	35
3'—3' 11".....	45
4'—4' 11".....	39
5'—5' 11".....	8
8'—8' 11".....	1
Total humpback foetuses.....	144
Average size of foetuses.....	3' 1"

Sei-whale foetuses.

Groups of size.	Jan.	Febr.	March.	Total.
Engl. feet.				
1'—1' 11".....	1	—	—	1
2'—2' 11".....	6	2	—	8
3'—3' 11".....	2	2	1	5
4'—4' 11".....	6	7	6	19
5'—5' 11".....	7	14	10	31
6'—6' 11".....	13	16	13	42
7'—7' 11".....	12	19	20	51
8'—8' 11".....	5	30	25	60
9'—9' 11".....	8	28	36	72
10'—10' 11".....	1	32	25	58
11'—11' 11".....	2	15	19	36
12'—12' 11".....	2	7	22	31
13'—13' 11".....	—	1	7	8
14'—14' 11".....	—	1	7	8
15'—15' 11".....	—	1	1	2
16'—16' 11".....	—	—	1	1
Total sei-whale foetuses.....	65	175	193	433
Average size of foetuses.....	6' 4"	8' 4"	9' 2"	8' 5"

Table No. 9.—Whale foetuses measured in the Antarctic in the season 1956/57, by species and sex, in each month.

Kind of foetuses. Months.	Number of		Sex not stated.	Total foetuses.	Number of males per 100 females.
	males.	females.			
Blue-whale foetuses.					
February.....	73	86	—	159	84.88
March.....	28	22	—	50	127.27
Total	101	108	—	209	93.52

Table No. 9 (continued).

Kind of fetuses. Months.	Number of		Sex not stated.	Total fetuses.	Number of males per 100 females.
	males.	females.			
Fin-whale fetuses.					
October	14	19	—	33	73.68
November	26	26	—	52	100.00
December	33	20	—	53	165.00
January	1 186	1,157	4	2,347	102.51
February	1,200	1,176	2	2,378	102.04
March	355	370	2	727	95.95
Total	2,814	2,768	8	5,590	101.66
Humpback fetuses.					
February	71	73	—	144	97.26
Sei-whale fetuses.					
January	25	40	—	65	62.50
February	78	97	—	175	80.41
March	92	101	—	193	91.09
Total	195	238	—	433	81.93