

DET NORSKE HVALRÅDS STATISTISKE PUBLIKASJONER

INTERNATIONAL
WHALING STATISTICS

XLIV

EDITED BY
THE COMMITTEE FOR WHALING STATISTICS



OSLO 1960

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PREFACE

The present publication, International Whaling Statistics No. XLIV, embraces the results of the Antarctic whaling during the season 1958–59.

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

Oslo, February 1960.

Gunnar Jahn.

Birger Bergersen.

Einar Vangstein.

INTRODUCTION

During the Antarctic season 1958-59 6 countries were engaged in whaling operations, employing altogether 20 floating factories, 3 shore stations and 256 catchers. This whaling matériel belonged to the participating countries as follows:—

Norway.....	9	floating	factories,	1	shore	station,	100	catchers
United Kingdom.....	3	”	”	1	”	”	44	”
Japan.....	6	”	”				69	”
The Netherlands.....	1	”	”				12	”
U.S.S.R.	1	”	”				24	”
Argentina				1	”	”	7	”
Total.....								
	20	floating	factories,	3	shore	stations,	256	catchers

This was only one shore station more and one catcher less than during the preceding season 1957-58. The Norwegian shore station in Husvik Harbour, South Georgia, which was not operating in 1957-58, resumed whaling during the last season.

All the countries participating in the Antarctic pelagic whaling season 1958-59 have ratified the International Whaling Convention.

The most important regulations concerning pelagic whaling during the season 1958-59 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 taking of humpback whales was February 1st, 2nd, 3rd and 4th.
4. The season was open for the taking of baleen whales until the agreed quota of blue-whale units was reached, but not longer than to April 7th included.

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

Season 1956—57.		Season 1957—58.		Season 1958—59.	
Week ending	Number of blue-whale units	Week ending	Number of blue-whale units	Week ending	Number of blue-whale units
$7/1-12/1$	1,697	$7/1-11/1$	1,094	$7/1-10/1$	1,038
$19/1$	1,552	$18/1$	1,730	$17/1$	1,593
$26/1$	1,325	$25/1$	1,387	$24/1$	1,772
$2/2$	1,525	$1/2$	1,335	$31/1$	1,564
$9/2$	1,829	$8/2$	1,729	$7/2$	2,189
$16/2$	2,069	$15/2$	1,580	$14/2$	1,361
$23/2$	1,578	$22/2$	1,372	$21/2$	1,040
$2/3$	1,239	$1/3$	1,496	$28/2$	1,530
$9/3$	892	$8/3$	1,333	$7/3$	1,479
$16/3$	1,028	$9/3-16/3$	1,783	$8/3-16/3$	1,722
Total $7/1-16/3$ (69 days)	14,734	Total $7/1-16/3$ (69 days)	14,839	Total $7/1-16/3$ (69 days)	15,288

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; 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.

Table b.—Number and gross tonnage of floating factories and catchers engaged in pelagic whaling in the Antarctic 1943/44—1958/59.

Seasons	Floating factories			Catchers			
	Number	Gross tonnage	Average gross tonnage per fl. factory	Number	Gross tonnage	Average per catcher of:	
						Gross tonnage	I.H.P.
1943-44....	1	12,215	12,215	8	2,480	310	1,013
1944-45....	1	14,362	14,362	8	2,480	310	1,013
1945-46....	9	123,499	13,722	77	24,326	316	1,190
1946-47....	15	198,179	13,212	129	42,307	328	1,233
1947-48....	17	234,759	13,809	162	56,156	347	1,302
1948-49....	18	254,406	14,134	191	76,272	399	1,501
1949-50....	18	257,112	14,284	216	91,499	424	1,582
1950-51....	19	271,646	14,297	239	108,493	454	1,705
1951-52 ¹⁾ ...	19	289,120	15,217	263	124,374	473	1,774
1952-53....	16	238,448	14,903	230	113,608	494	1,862
1953-54....	17	261,898	15,406	206	102,525	498	1,874
1954-55....	19	286,205	15,063	233	119,011	511	1,933
1955-56....	19	305,765	16,093	257	131,881	513	1,945
1956-57....	20	320,268	16,013	225	122,569	545	2,073
1957-58....	20	321,656	16,083	237	135,024	570	2,190
1958-59....	20	329,136	16,457	235	140,755	599	2,390

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

At the meeting of the International Whaling Commission at the Hague in 1958 it was resolved, against the vote of the Netherlands' commissioner, that the maximum catch should be 14,500 blue-whale units, as stated in point 5 above. The Netherlands' government protested, however, against this resolution. Consequently, protests were filed also by Norway, United Kingdom, U.S.S.R. and Japan. For these countries the maximum catch was therefore 15,000 blue-whale units, and daily reports should be sent when the expeditions had reached 13,500 units, see point 9.

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, 7 and 8, except that the minimum size limit for sperm-whales was 35 feet.

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 13,500 units. From that time daily reports were sent in. Per March 11th the total catch amounted to 14,307 blue-whale units, and the Committee fixed the closing date for March 16th, midnight. On March 12th the expeditions were notified accordingly.

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. As will be seen, the total catch during the season 1958-59, according to the telegraphic reports, amounted to 15,288 blue-whale units. The highest weekly catch in blue-whale units was 2,189, while the lowest was 1,040. The corresponding

highest and lowest figures for the preceding season 1957-58 were 1,730 and 1,333 units, respectively.

By examining the statistical data provided by the companies after the return from the whaling grounds, the total catch of the pelagic expeditions amounted to 36,261 whales, of which 172 were lost. Thus the number actually processed was 36,089, as will be seen from the table below:—

Season 1958-59 Species of whales	Captured whales	Of which lost whales	Processed whales	Catch in blue-whale units
Blue-whales	1,191	4	1,187	1,191.0
Fin-whales	25,837	150	25,687	12,918.5
Humpbacks	2,394	1	2,393	957.6
Sei-whales	1,402	8	1,394	2: 3.7
Total baleen whales	30,824	163	30,661	15,300.8
Sperm-whales	5,437	9	5,428	—
Total of whales ¹⁾	36,261	172	36,089	15,300.8

¹⁾ In addition 103 Minke-whales and 110 killer-whales were taken,

Pelagically caught baleen whales converted to blue-whale units amounted to 15,300.8 or 300.8 units more than the permitted maximum catch. This figure includes 9 fin-whales (= 4.5 blue-whale units) which were captured before the official whaling season. Of these whales 7 were caught for scientific purpose and 2 were caught for use as fenders.

Regulations in regard to maximum quotas for pelagic expeditions were adopted in 1944. The season 1947-48 was the first one during which the operations were called off before the official closing date, because the quota agreed upon had been reached. In the statement below the actual catch, converted into blue-whale units, is compared with the quota agreed upon during each of the seasons 1947/48-1958/59:

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 „ „
1957-58.....	14,850.9	14,500	„ 2.42 „ „
1958-59	15,300.8	15,000	„ 2.01 „ „
Total	186,275.4	186,000	plus 0.15 per cent

From and including the season 1947-48 it has been permissible to take altogether 186,000 blue-whale units, while the actual catch has been 186,275 units. This means that the catch in the 12 said seasons has been 275,4 units or 0,15 per cent higher than the permitted maximum quota.

The duration of the whaling period for the pelagic operations in 1958-59 was identical with those of the two preceding seasons. During all three seasons whaling opened on January 7th and closed on March 16th, i.e. after 69 days' activity. The whaling period and number of catching days for the pelagic baleen whaling operations from and including the season 1945-46 will be seen from the following survey:—

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
1957-58	January 7th-March 16th	69
1958-59	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. From and including the season 1953-54 the whaling period and the number of catching days for blue-whales have been as follows:—

Season		Catching days
1953-54	January 16th-March 18th	62
1954-55	January 21st-March 19th	58
1955-56	February 1st-March 4th	33
1956-57	February 1st-March 16th	44
1957-58	February 1st-March 16th	44
1958-59	February 1st-March 16th	44

Table c.—Total Antarctic.

Years.	Species of whales caught.						Total of whales.	Oil production.	Expeditions.			Number of whales per boat.
	Blue.	Fin.	Hump-back.	Sel.	Sperm.	Others.			Shore stations.	Float-ing factories.	Catch-ers.	
1919-20	1,874	3,213	261	71	8	14	5,441	272,817	6	6	44	124
1920-21	2,617	5,491	260	36	31	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	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	10	14,219	783,307	6	15	70	203
1926-27	6,545	5,102	189	778	39	12	12,665	872,362	6	17	80	158
1927-28	8,334	4,459	23	883	72	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	30,655	2,546,759	6	38	194	158
1930-31	29,410	10,017	576	145	51	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	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	38,356	2,820,771	2	34	281	136
1939-40	11,480	18,694	2	81	1,938	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	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	33,997	2,303,690	3	19	260	131
1951-52	5,130	22,527	1,556	530	5,485	4	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	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	38,580	2,307,171	3	19	278	139
1956-57	1,512	27,757	679	1,692	4,429	4	36,115	2,246,922	3	20	246	147
1957-58	1,690	27,473	396	3,309	6,535	4	39,896	2,317,638	2	20	257	155
1958-59	1,192	27,128	2,394	2,421	5,652	4	38,890	2,152,659	3	20	256	152

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

The humpback in the Antarctic was practically preserved between 1938 and 1949. At the meeting of the International Whaling Commission in 1949 a quota of 1250 humpbacks per season was decided upon. While the Commission fixed the opening date for the humpback catch, it was left to the Committee for International Whaling Statistics to decide the closing date. However, a definite date proved to be a very difficult matter to decide, and from 1949-50 and including 1952-53 the average catch per season amounted to 1,562 animals. At the meeting of the Commission in 1953 the open season

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.	Float-ing factories.	Catch-ers.	
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	2) 704	31,709	2,479,471	—	28	228	139
1940-41	4,936	7,084	2,675	22	778	—	15,495	1,055,510	—	11	88	176
1941-42	—	—	—	—	—	—	—	—	—	—	—	—
1942-43	—	—	—	—	—	—	—	—	—	—	—	—
1943-44	311	526	—	—	—	—	837	82,000	—	1	8	105
1944-45	914	679	—	2	—	—	1,595	148,000	—	1	8	199
1945-46	3,526	7,729	—	3	216	—	11,474	739,775	—	9	77	149
1946-47	8,865	12,877	1	2	1,298	—	23,043	1,794,424	—	15	129	175
1947-48	6,862	18,999	2	12	2,494	—	28,369	1,940,653	—	17	162	149
1948-49	7,399	17,201	13	16	3,865	—	28,494	2,047,427	—	18	191	179
1949-50	6,168	18,061	2,117	101	2,570	—	29,017	2,019,368	—	18	216	134
1950-51	6,966	17,474	1,630	367	4,742	4) 1	31,180	2,152,498	—	19	239	130
1951-52	5,124	20,520	1,546	32	5,344	5) 9	32,575	2,334,805	—	20	268	122
1952-53	3,866	21,197	954	123	2,185	—	28,325	1,998,094	—	16	230	123
1953-54	2,684	24,986	594	251	2,700	5) 3	31,218	2,100,884	—	17	206	152
1954-55	2,163	25,878	493	146	5,708	—	34,388	2,061,789	—	19	233	148
1955-56	1,611	25,289	1,432	276	6,881	5) 42	35,531	2,134,808	—	19	257	138
1956-57	1,505	25,700	679	712	4,345	5) 46	32,987	2,098,854	—	20	225	147
1957-58	1,684	25,222	396	2,385	6,310	5) 493	36,490	2,146,206	—	20	237	154
1958-59	1,191	25,837	2,394	1,402	5,437	5) 103	36,364	2,050,241	—	20	235	155

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.

for the taking of humpbacks was fixed at 4 days, i.e. from February 1st to February 4th, both days included. Since the 4 days' catching period was decided upon, from and including the season 1953-54, a total of 5,988 humpbacks have been killed by the pelagic expeditions in the Antarctic, i.e. 998 per season. The catching period for humpbacks compared with the agreed quota and the number of humpbacks caught will appear from the following statement:—

Season	Catching days	Agreed quota	Number of humpbacks caught
1949-50	December 22th-January 3rd	13	2,117
1950-51	February 1st- 7th	7	1,630
1951-52	February 1st- 5th	5	1,546
1952-53	February 1st- 3rd and February 16th-18th	6	954
Average number per season			1,562
1953-54	February 1st-4th	4	594
1954-55	February 1st-4th	4	493
1955-56	February 1st-4th	4	1,432
1956-57	February 1st-4th	4	679
1957-58	February 1st-4th	4	396
1958-59	February 1st-4th	4	2,394
Average number per season			998

Table *b*, page 9, gives the number of floating factories and catchers engaged in pelagic whaling since the season 1943-44, the average gross tonnage of the floating factories and the average gross tonnage and engine power of the catchers. From this table will be seen that the average engine capacity of the catchers increased from 1,302 I.H.P. in 1947-48 to 2,073 in 1956-57, 2,190 in 1957-58 and 2,390 I.H.P. in 1958-59. The survey below gives the number of floating factories, the number of catchers and the number of catchers engaged per floating factory from and including 1945-46:—

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

Table e.—Average production per floating factory and catcher in the pelagic whaling in Antarctic 1930/31—1938/39 and 1946/47—1958/59.

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.
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
1946-47	1,728,370	15	115,225	1,667	111	15,571	1,037
1947-48	1,809,560	17	106,445	1,914	113	16,014	945
1948-49	1,844,867	18	102,493	1,818	101	18,266	1,015
1949-50	1,888,968	18	104,943	1,492	83	22,759	1,266
1950-51	1,909,640	19	100,507	1,471	77	24,801	1,298
1951-52	2,054,853	19	108,150	1,216	64	32,107	1,690
1952-53	1,884,207	16	117,763	1,184	74	25,462	1,591
1953-54	1,964,994	17	115,588	1,292	76	25,855	1,521
1954-55	1,780,067	19	93,688	1,356	71	25,071	1,313
1955-56	1,797,069	19	94,583	1,104	58	30,984	1,628
1956-57	1,883,961	20	94,198	1,371	69	27,304	1,374
1957-58	1,845,147	20	92,257	1,381	69	26,741	1,336
1958-59	1,798,447	20	89,922	1,385	69	26,064	1,299

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.	
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
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	18,922	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
1957-58	1,845,147	237	7,785	16,344	69	113	1 82
1958-59	1,798,447	235	7,653	16,275	69	111	1 89

¹⁾ Not including sperm-whales.

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

Years.	Species of whales caught.					
	Blue.	Fin.	Hump-back.	Sci.	Sperm.	Total.
	Per cent.	Per cent.	Per cent.	Per cent.	Per cent.	Per cent.
1928-29.....	73.5	23.4	0.2	2.7	0.2	100
1929-30.....	65.8	31.0	3.1	—	0.1	100
1930-31.....	75.6	23.0	1.3	—	0.1	100
1931-32.....	82.1	15.4	2.4	—	0.1	100
1932-33.....	79.8	19.0	0.7	—	0.5	100
1933-34.....	70.9	23.1	3.3	—	2.7	100
1934-35.....	52.7	38.6	6.4	0.5	1.8	100
1935-36.....	56.5	31.4	10.7	—	1.4	100
1936-37.....	43.2	40.5	13.6	0.1	2.6	100
1937-38.....	33.5	59.9	4.6	0.1	1.9	100
1938-39.....	37.8	53.1	2.4	—	6.7	100
1939-40.....	36.7	57.3	—	—	6.0	100
1940-41.....	31.9	45.7	17.3	0.1	5.0	100
1943-44.....	37.2	62.8	—	—	—	100
1944-45.....	57.3	42.6	—	0.1	—	100
1945-46.....	30.7	67.4	—	—	1.9	100
1946-47.....	38.5	55.9	—	—	5.6	100
1947-48.....	24.2	67.0	—	—	8.8	100
1948-49.....	26.0	60.4	—	—	13.6	100
1949-50.....	21.3	62.2	7.3	0.3	8.9	100
1950-51.....	22.3	56.1	5.2	1.2	15.2	100
1951-52.....	15.7	63.0	4.8	0.1	16.4	100
1952-53.....	13.7	74.8	3.4	0.4	7.7	100
1953-54.....	8.6	80.0	1.9	0.8	8.7	100
1954-55.....	6.3	75.3	1.4	0.4	16.6	100
1955-56.....	4.5	71.3	4.0	0.8	19.4	100
1956-57.....	4.6	78.0	2.0	2.2	13.2	100
1957-58.....	4.7	70.1	1.1	6.6	17.5	100
1958-59.....	3.3	71.2	6.6	3.9	15.0	100

Apart from the season 1955-56, agreements have since the season 1953-54 been concluded between all whaling companies, except the Sovjet-Russian company, for restriction of the number of catching boats. In brief the agreement for the 3 last seasons was to the effect that the large expeditions should not use more than 12 catchers. The Sovjet-Russian factory ship, which did not join the agreements, employed in 1956-57 18 catchers, and in 1957-58 and 1958-59 24 catchers.

The agreements resulted in a reduction of the average number of catchers per floating factory from 13.5 in 1955-56 to 11.9 in 1957-58 and 11.8 in 1958-59.

The total whaling results in the Antarctic from 1919-20 up to and including 1958-59 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.

During the season 1958-59 the pelagic expeditions killed a total of 36,364 whales compared with 36,490 during the previous season. Of these whales 30,927 and 30,180, respectively, were baleen whales. In 1958-59

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

Species of whales, and seasons.	Nov.	Dec.	Jan.	Feb.	March.	April.	Total.	The Whaling Statistics' total figures.	
<i>Total animals.</i>	1938-39..	1,362	10,138	12,618	9,978	2,569	—	1) 36,665	1) 36,681
	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
	1957-58..	1,259	3,669	11,428	11,886	7,575	—	35,817	35,997
1958-59..	731	3,477	12,628	12,800	6,453	—	36,089	36,261	
<i>Blue-whales.</i>	1938-39..	849	5,128	4,892	2,365	605	—	13,839	13,849
	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..	—	6	2,150	1,249	441	—	3,847	3,866
	1953-54..	1	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
	1957-58..	—	1	1	1,476	205	—	1,683	1,684
1958-59..	—	—	—	780	407	—	1,187	1,191	
<i>Fin-whales.</i>	1938-39..	64	3,608	6,956	7,057	1,792	—	19,477	19,477
	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
	1957-58..	—	6	10,746	8,805	5,510	—	25,067	25,222
1958-59..	—	7	11,818	8,615	5,247	—	25,687	25,837	
<i>Hump-backs.</i>	1938-39..	134	456	235	58	—	—	883	883
	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
	1957-58..	—	—	1	395	—	—	396	396
1958-59..	—	—	—	2,393	—	—	2,393	2,394	
<i>Sei-whales.</i>	1938-39..	—	—	—	—	1) 4	—	1) 4	1) 4
	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
	1957-58..	—	—	46	681	1,648	—	2,375	2,385
1958-59..	—	—	205	586	603	—	1,394	1,402	
<i>Sperm-whales.</i>	1938-39..	315	946	535	498	168	—	2,462	2,468
	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
	1957-58..	1,259	3,662	634	529	212	—	6,296	6,310
1958-59..	731	3,470	605	426	196	—	5,428	5,437	

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	
	1950-51	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
	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	—	0.4	17.5	12.8	9.9	—	13.7	13.7
	1953-54	1.6	0.1	4.6	13.3	11.8	—	8.7	8.6
	1954-55	—	—	5.0	8.5	9.2	—	6.3	6.3
	1955-56	—	—	—	10.2	5.7	—	4.6	4.5
	1956-57	—	—	—	8.4	7.9	—	4.6	4.6
	1957-58	—	—	—	12.4	2.7	—	4.7	4.7
1958-59	—	—	—	6.1	6.3	—	3.3	3.3	
<i>Fin-whales</i>	1938-39	4.7	35.6	55.1	70.7	69.8	—	53.1	53.1
	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	—	0.4	80.8	75.8	81.0	—	74.8	74.8
	1953-54	1.5	0.5	92.6	77.7	84.2	—	79.9	80.0
	1954-55	—	0.1	86.6	83.5	83.8	—	75.2	75.3
	1955-56	—	—	92.2	74.9	71.6	—	71.2	71.3
	1956-57	—	0.1	93.9	81.0	82.1	—	77.9	78.0
	1957-58	—	0.2	94.0	74.1	72.7	—	70.0	70.1
1958-59	—	0.2	93.6	67.3	81.3	—	71.2	71.2	
<i>Hump-backs</i>	1938-39	9.8	4.5	1.9	0.6	—	—	2.4	2.4
	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
	1957-58	—	—	—	3.3	—	—	1.1	1.1
1958-59	—	—	—	18.7	—	—	6.6	6.6	
<i>Sei-whales</i>	1938-39	—	—	—	—	0.1	—	—	—
	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
	1957-58	—	—	0.4	5.7	21.8	—	6.6	6.6
1958-59	—	—	1.6	4.6	9.4	—	3.9	3.9	
<i>Sperm-whales</i>	1938-39	23.1	9.3	4.2	5.0	6.5	—	6.7	6.7
	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
	1957-58	100.0	99.8	5.6	4.5	2.8	—	17.6	17.5
1958-59	100.0	99.8	4.8	3.3	3.0	—	15.0	15.0	

1,191 blue-whales were killed, which is 493 less than during the season 1957-58, and the lowest number of blue-whales recorded since 1919-20, apart from the seasons during the war. The fin-whale catch amounted to 25,837 or 615 more than during the preceding season, and the number of humpbacks killed increased to 2,394 against 396 in 1957-58 and 679 in 1956-57. The sei-whale catch amounted to 1,402 in 1958-59 compared with 2,385 in 1957-58, 712 in 1956-57 and 276 in 1955-56. The number of sperm-whales killed also decreased, viz. to 5,437 from 6,310 during the preceding season.

The pelagic whaling operations in 1958-59 resulted in a total oil production of 2,050,241 barrels, of which 1,798,447 were whale-oil and 251,794 barrels sperm-oil. In 1957-58 the total pelagic oil output was 2,146,206 barrels, of which 1,845,147 barrels of whale-oil and 301,059 barrels of sperm-oil.

Table *e*, page 15, 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 baleen whales killed per catcher's day's 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 16, illustrates the relation between the various species of whales killed in pelagic operations in the Antarctic from 1928-29. In the season 1958-59 3.3 per cent of the total number of whales killed were blue-whales as against 4.7 and 4.6 per cent during the two preceding seasons. The fin-whale catch in 1958-59 represented 71.2 per cent of the total catch against 70.1 per cent in 1957-58 and 78.0 in 1956-57. The number of humpbacks killed represented 6.6 per cent of the total catch during the last season against 1.1 per cent in 1957-58 and 2.0 per cent in 1956-57. The sei-whale catch represented 3.9 per cent in 1958-59 against 6.6 and 2.2 per cent in the two preceding seasons. These percentage figures are, however, influenced by the sperm-whale catch, which has varied considerably during the latest seasons. In 1958-59 15.0 per cent of the total catch consisted of sperm-whales, while the corresponding percentage figures for the 5 previous seasons varied between 19.4 and 8.7 per cent.

In the survey on next page 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.

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

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
1957-58	1,684	6.3	25,222	93.7
1958-59	1,191	4.4	25,837	95.6

during the 3 last seasons represented only about 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 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 four last seasons, 1955-56, 1956-57, 1957-58, and 1958-59, 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 17 and 18, 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

Table i.—Average size of whales killed in the Antarctic, by whaling grounds and species of whales 1938/39 and 1948/49—1958/59.

Whaling grounds and species of whales.	1938-39	1948-49	1949-50	1950-51	1951-52	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59
	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.
Pelagic whaling.												
<i>Blue-whales.</i>												
Males	76.6	77.5	77.7	77.3	76.4	75.8	76.0	75.7	75.6	75.8	75.4	76.0
Females	79.5	80.8	80.7	79.4	79.5	79.1	79.6	79.5	78.9	78.4	79.0	80.2
Total animals.....	78.0	79.1	79.0	78.2	78.0	77.5	78.0	77.8	77.3	77.0	77.1	78.3
<i>Fin-whales.</i>												
Males	65.7	66.4	66.0	65.2	66.4	65.7	65.6	65.1	65.1	65.3	64.7	64.8
Females	68.9	69.6	69.1	68.2	69.4	68.8	68.7	68.0	68.1	68.6	67.7	67.8
Total animals.....	67.2	67.9	67.5	66.6	67.9	67.3	67.1	66.5	66.5	66.9	66.2	66.3
<i>Humpbacks.</i>												
Males	37.7	39.7	39.7	39.7	39.3	39.5	39.6	39.9	39.0	40.7	40.8	39.2
Females	40.5	42.5	41.4	41.6	41.4	42.0	41.1	41.8	40.7	42.1	42.1	40.7
Total animals.....	39.6	41.8	40.6	40.8	40.4	40.9	40.3	41.1	40.0	41.4	41.5	40.0
South Georgia.												
<i>Blue-whales, total</i> ...	75.8	76.3	74.3	76.9	72.0	74.0	73.3	73.0	81.3	71.7	74.5	64.0
<i>Fin-whales, total</i>	65.4	65.6	65.2	66.0	66.0	65.4	64.0	64.8	65.0	63.8	66.1	65.9
<i>Humpbacks, total</i> ...	—	40.2	40.0	40.1	39.8	40.1	39.4	40.0	—	—	—	—
<i>Sperm-whales, total</i> ..	50.3	46.0	48.6	46.9	48.1	46.7	47.0	48.7	46.8	45.7	47.1	46.5

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	Blue-whales in per cent of all blue- and fin-whales killed Febr. 1st—March 4th	Season	Blue-whales in per cent of all blue- and fin-whales killed Febr. 1st—March 4th
1931-32	61.9	1948-49	25.2
1932-33	50.3	1949-50	25.7
1933-34	46.6	1950-51	28.7
1934-35	38.4	1951-52	25.9
1935-36	50.8	1952-53	14.0
1936-37	29.9	1953-54	14.0
1937-38	16.5	1954-55	9.5
1938-39	24.5	1955-56	11.5
1945-46	31.9	1956-57	9.3
1946-47	31.9	1957-58	13.5
1947-48	22.9	1958-59	7.8

Table j.—Average size of whales killed, by species and sex 1938/39 and 1948/49—1958/59, 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	1948 -49	1949 -50	1950 -51	1951 -52	1952 -53	1953 -54	1954 -55	1955 -56	1956 -57	1957 -58	1958 -59
<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	77.9	78.2	77.8	77.1	76.3	76.4	76.1	76.1	76.3	75.8	76.3
Females	80.3	81.2	81.3	80.0	80.1	79.5	80.1	80.0	79.4	79.0	79.4	80.6
Total animals.	78.8	79.5	79.6	78.8	78.6	78.0	78.5	78.2	77.9	77.5	77.6	78.7
<i>Fin-whales.</i>												
Males	66.5	66.9	66.7	66.3	66.7	66.0	65.9	65.9	65.2	66.2	65.8	65.9
Females	69.8	70.2	70.0	69.3	69.7	69.1	69.0	68.9	68.3	69.6	69.0	69.0
Total animals.	68.1	68.5	68.3	67.8	68.1	67.6	67.4	67.4	66.7	67.9	67.5	67.4
<i>Humpbacks.</i>												
Males	38.1	39.7	40.1	40.1	39.6	39.7	39.7	40.0	39.1	40.8	40.9	39.2
Females	40.8	43.6	41.8	41.8	41.7	42.2	41.3	41.9	40.8	42.3	42.3	40.9
Total animals.	40.0	42.6	41.0	41.1	40.7	41.1	40.5	41.1	40.1	41.6	41.6	40.1

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 latest seasons. In 1958-59 the percentage proportion of blue-whales reached a minimum figure of 7.8.

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 21. It will appear from this table that the average size of the fin-whales killed increased by 0.1 feet, to 66.3 feet during the last season as compared with the preceding season. The average size of the blue-whales killed increased by 1.2 feet, to 78.3 feet.

For the seasons covered by table *i* 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 feet until and including the season 1950-51, during the 3 successive seasons 60 ft. and during the last 5 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 this page, 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 78.7 ft. against 77.6 ft. in 1957-58. The average size of the fin-whales (of 60 ft. and over) was 0.1 ft. lower than the average for the season 1957-58. For humpbacks (of 35 ft. and over) the average size was 40.1 ft. against 41.6 ft. in 1957-58.

Table *k*, page 23, gives particulars of the catch of mature and immature whales in absolute and relative figures during a series of seasons.

Table k.—Antarctic, pelagic whaling. Catch of immature and mature whales 1938/39 and 1950/51—1958/59.

	1938—39.		1950—51.		1951—52.		1952—53.		1953—54.		1954—55.		1955—56.		1956—57.		1957—58.		1958—59.	
	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	875	23.3	778	31.7	677	36.8	409	33.5	374	37.4	289	37.4	268	33.7	316	36.9	175	33.0
females . . .	2,343	34.1	1,164	36.7	1,015	38.4	827	41.2	564	39.0	439	38.0	352	42.0	312	44.0	332	40.2	219	33.3
animals . . .	4,283	30.9	2,039	29.4	1,793	35.1	1,504	39.1	973	36.5	813	37.7	641	39.8	580	38.5	648	38.5	394	33.2
Mature																				
males	5,034	72.2	2,882	76.7	1,680	68.3	1,165	63.2	811	66.5	626	62.6	484	62.6	528	66.3	541	63.1	355	67.0
females . . .	4,522	65.9	2,007	63.3	1,628	61.6	1,178	58.8	883	61.0	715	62.0	486	58.0	397	56.0	494	59.8	438	66.7
animals . . .	9,556	69.1	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	1,035	61.5	793	66.8
Fin-whales.																				
Immature																				
males	2,097	20.2	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	3,629	30.0	3,654	28.9
females . . .	2,039	22.4	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	4,052	31.3	4,041	31.0
animals . . .	4,136	21.2	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	7,681	30.6	7,695	30.0
Mature																				
males	8,297	79.8	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	8,484	70.0	8,976	71.1
females . . .	7,044	77.6	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	8,902	68.7	9,016	69.0
animals . . .	15,341	78.8	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	17,386	69.4	17,992	70.0
Humpbacks.																				
Immature																				
males	182	69.2	298	43.4	347	48.9	207	50.7	159	52.1	87	43.5	341	56.9	85	26.1	58	30.9	658	57.2
females . . .	310	50.0	315	33.6	330	40.1	183	34.3	132	45.8	107	36.6	392	47.5	102	29.4	63	30.3	607	48.8
animals . . .	492	55.7	613	37.7	677	44.2	390	41.4	291	49.1	194	39.4	733	51.4	187	27.8	121	30.6	1,265	52.9
Mature																				
males	81	30.8	388	56.6	363	51.1	201	49.3	146	47.9	113	56.5	258	43.1	241	73.9	130	69.1	492	42.8
females . . .	310	50.0	623	66.4	492	59.9	350	65.7	156	54.2	185	63.4	434	52.5	245	70.6	145	69.7	636	51.2
animals . . .	391	44.3	1,011	62.3	855	55.8	551	58.6	302	50.9	298	60.6	692	48.6	486	72.2	275	69.4	1,128	47.1

Table I.—Number and average size of whales caught

No.	Species of whales. Seasons.	Area II (60° W.-0°)			Area III (0°-70° E.)			Area IV (70° E.-130° E.)		
		Number of whales caught.	Per cent.	Average size of the whales. Eng. ft.	Number of whales caught.	Per cent.	Average size of the whales. Eng. ft.	Number of whales caught.	Per cent.	Average size of the whales Eng. ft.
Blue-whales.										
1	1931/32-1937/38	¹⁾ 17,210	16.7	79.0	48,125	46.8	78.4	37,210	36.2	80.2
2	1938-39	3,450	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	1940/41-1945/46	2,705	46.4	78.0	3,131	53.6	78.3	-	-	-
5	1946-47	1,857	21.0	78.6	2,968	33.5	78.4	3,346	37.7	78.1
6	1947-48	1,536	22.5	76.7	1,890	27.6	78.6	1,952	28.5	79.4
7	1948-49	2,122	27.4	78.6	2,981	40.4	79.3	1,325	18.0	79.1
8	1949-50	1,064	17.3	78.4	1,512	24.7	78.5	925	15.1	78.9
9	1950-51	1,514	21.9	77.3	1,427	20.6	77.8	1,076	15.5	77.7
10	1951-52	447	8.8	78.2	1,836	36.0	79.2	1,199	23.5	77.7
11	1952-53	727	18.9	78.9	1,454	37.8	77.7	837	21.8	77.0
12	1953-54	542	20.3	78.1	1,569	58.8	78.2	356	13.4	77.2
13	1954-55	470	21.8	79.0	685	31.8	78.1	310	14.4	77.6
14	1955-56	439	27.3	77.1	300	18.6	78.8	322	20.0	77.7
15	1956-57	330	21.9	76.9	275	18.3	78.4	80	5.3	78.5
16	1957-58	236	14.0	77.8	620	36.9	77.4	186	11.1	76.7
17	1958-59	57	4.8	80.5	373	31.4	79.0	335	28.2	78.0
	1931/32-1958/59	38,047	20.7	78.6	74,335	40.4	78.4	55,760	30.3	79.5
Fin-whales.										
1	1931/32-1937/38	²⁾ 25,959	36.3	67.8	31,251	43.6	67.7	14,373	20.1	68.7
2	1938-39	6,188	31.8	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	1940/41-1945/46	6,940	70.9	67.4	2,849	29.1	67.1	-	-	-
5	1946-47	4,655	36.2	66.7	4,382	34.0	68.5	3,355	26.1	67.3
6	1947-48	6,136	32.5	68.1	6,483	34.4	67.8	4,654	24.7	67.9
7	1948-49	4,995	29.2	67.4	6,457	37.8	68.5	3,068	18.0	67.4
8	1949-50	7,150	40.0	67.5	5,117	28.6	67.5	2,940	16.5	66.6
9	1950-51	5,081	29.4	66.4	4,133	23.9	66.2	4,210	24.3	66.5
10	1951-52	5,977	29.4	67.9	7,122	35.1	68.1	2,141	10.5	67.3
11	1952-53	4,551	21.7	68.1	11,364	54.2	67.1	1,449	6.9	66.2
12	1953-54	7,653	31.0	67.4	11,419	46.4	67.0	2,195	8.9	67.0
13	1954-55	4,963	19.4	67.3	13,607	53.1	66.4	2,790	10.9	66.4
14	1955-56	6,619	26.4	66.2	7,088	28.2	66.8	3,208	12.8	66.5
15	1956-57	10,697	41.9	67.4	3,812	15.0	67.2	291	1.1	64.6
16	1957-58	5,211	20.8	67.3	9,197	36.7	66.7	3,579	14.3	65.6
17	1958-59	4,298	16.7	67.1	9,385	36.6	66.4	7,277	28.3	66.5
	1931/32-1958/59	124,913	32.2	67.4	141,634	36.5	67.2	61,644	15.9	67.3
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	41.7	779	37.0	40.4
6	1950-51	2	0.1	38.5	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	-	-	-
13	1957-58	-	-	-	116	29.3	41.0	-	-	-
14	1958-59	-	-	-	95	4.0	42.4	1,796	75.0	39.6
	1931/32-1958/59	1,530	5.9	41.3	7,541	29.0	40.9	12,331	47.4	40.3

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

in the different areas of Antarctic. Pelagic whaling.

Area V (130° E.-170° W.)			Area VI (170° W.-120° W.)			Area I (120° W.-10° W.)			Ail areas.			The Whaling Statistics' total figures for whales caught.	No.
Number of whales caught.	Per cent.	Average size of the whales.	Number of whales caught.	Per cent.	Average size of the whales	Number of whales caught.	Per cent.	Average size of the whales.	Number of whales caught.	Per cent.	Average size of the whales.		
		Eng. ft.			Eng. ft.			Eng. ft.			Eng. ft.		
311	0.3	80.5	1	—	82.0	6	—	74.8	102,863	100	79.2	102,950	1
1,015	7.3	79.7	—	—	—	4	—	70.0	13,839	100	78.0	13,849	2
—	—	—	—	—	—	—	—	—	5,561	100	78.2	11,392	3
—	—	—	—	—	—	—	—	—	5,836	100	78.1	9,687	4
693	7.8	77.6	—	—	—	—	—	—	8,864	100	78.3	8,865	5
1,417	21.4	78.7	—	—	—	—	—	—	6,845	100	78.4	6,862	6
1,013	13.8	79.1	30	0.4	80.9	—	—	—	7,371	100	79.1	7,399	7
1,494	24.4	79.8	1,137	18.5	79.4	—	—	—	6,132	100	79.0	6,168	8
2,211	31.9	79.3	655	9.5	78.8	45	0.6	77.7	6,928	100	78.2	6,966	9
1,462	28.6	76.9	157	3.1	77.5	—	—	—	5,101	100	78.0	5,124	10
512	13.3	76.4	317	8.2	76.9	—	—	—	3,847	100	77.5	3,866	11
83	3.1	78.2	117	4.4	76.7	—	—	—	2,667	100	78.0	2,684	12
531	26.0	76.4	128	6.0	77.0	—	—	—	2,154	100	77.8	2,163	13
15	0.9	79.1	281	17.4	76.2	254	15.8	76.3	1,611	100	77.3	1,611	14
—	—	—	617	41.0	76.3	203	13.5	76.9	1,505	100	77.0	1,505	15
76	4.5	76.9	440	26.1	76.9	125	7.4	76.1	1,683	100	77.1	1,684	16
176	14.9	78.5	246	20.7	76.9	—	—	—	1,187	100	78.3	1,191	17
11,089	6.0	78.6	4,125	2.3	77.8	637	0.3	76.5	183,993	100	78.8	193,966	
18	—	69.6	—	—	—	13	—	65.5	71,614	100	67.9	71,649	1
1,975	10.1	68.1	—	—	—	64	0.3	64.5	19,477	100	67.2	19,477	2
—	—	—	—	—	—	—	—	—	10,632	100	67.3	17,757	3
—	—	—	—	—	—	—	—	—	9,789	100	67.3	16,018	4
478	3.7	65.9	—	—	—	—	—	—	12,870	100	67.4	12,877	5
1,591	8.4	67.9	—	—	—	—	—	—	18,864	100	67.9	18,999	6
2,489	14.6	68.2	72	0.4	68.4	—	—	—	17,081	100	67.9	17,201	7
1,664	9.3	67.6	1,005	5.6	69.0	—	—	—	17,876	100	67.5	18,061	8
2,198	12.7	67.4	1,212	7.0	68.2	462	2.7	68.5	17,296	100	66.6	17,474	9
2,768	13.6	67.9	2,304	11.4	67.6	—	—	—	20,312	100	67.9	20,520	10
1,709	8.2	66.8	1,891	9.0	67.7	—	—	—	20,964	100	67.3	21,197	11
654	2.7	66.9	2,616	10.6	66.8	98	0.4	66.6	24,675	100	67.1	24,986	12
3,021	11.8	66.0	1,227	4.8	66.4	—	—	—	25,608	100	66.5	25,878	13
1,494	5.9	66.0	2,585	10.3	66.2	4,108	16.4	67.1	25,102	100	66.5	25,289	14
23	0.1	65.0	5,064	19.9	65.9	5,615	22.0	66.8	25,502	100	66.9	25,700	15
1,130	4.5	64.4	4,107	16.4	65.1	1,843	7.3	66.1	25,067	100	66.2	25,222	16
2,625	10.2	65.6	2,102	8.2	64.6	—	—	—	25,687	100	66.3	25,837	17
23,837	6.1	67.0	24,185	6.2	66.4	12,203	3.1	66.8	388,416	100	67.2	404,142	
4	—	43.0	—	—	—	—	—	—	12,654	100	40.8	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	41.6	2,117	5
162	10.0	42.0	66	4.1	41.2	262	16.1	41.5	1,624	100	40.8	1,630	6
146	9.5	41.6	37	2.4	41.7	—	—	—	1,532	100	40.4	1,546	7
505	53.6	41.3	13	1.4	45.3	—	—	—	941	100	40.9	954	8
14	2.4	42.7	136	22.9	41.2	—	—	—	593	100	40.3	594	9
171	34.8	39.8	177	35.9	41.9	—	—	—	492	100	41.1	493	10
194	13.6	39.4	329	23.1	40.3	14	1.0	43.3	1,425	100	40.0	1,432	11
—	—	—	10	1.5	42.3	655	97.3	41.4	673	100	41.4	679	12
23	5.8	41.0	167	42.2	41.8	90	22.7	41.9	396	100	41.5	396	13
502	21.0	40.7	—	—	—	—	—	—	2,393	100	40.0	2,394	14
2,648	10.2	40.7	935	3.6	41.2	1,021	3.9	41.5	26,006	100	40.6	28,476	

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

Animals of the following sizes are regarded as mature:

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

From table *k* will be seen that the percentage proportion of immature blue-whales decreased considerably during the last season, viz. from 38.5 per cent in each of the seasons 1956–57 and 1957–58 to 33.2 per cent in 1958–59. Of the total fin-whale catch in 1958–59 30.0 per cent were immature animals against 30.6 per cent in 1957–58.

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

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

A survey of the number and average size of blue-whales, fin-whales and humpbacks killed in the individual areas from and including the season 1931–32 is given in table *l*, page 24.

From the survey below will be seen the whaling results in the individual areas during the two latest seasons.

	Catch in blue-whale units 1957-58			Catch in blue-whale units 1958-59		
	Number of blue-whale units	Per cent	Per catcher's day's work	Number of blue-whale units	Per cent	Per catcher's day's work
Total	14,770	100.0	0.90	15,235	100.0	0.94
Of which in:						
Area II	2,872	19.5	0.73	2,215	14.5	0.79
" III	5,267	35.7	0.95	5,117	33.6	0.94
" IV	2,022	13.7	1.10	4,739	31.1	1.03
" V	716	4.8	0.92	1,776	11.7	0.93
" VI	2,721	18.4	0.99	1,388	9.1	0.93
" I	1,172	7.9	0.72	—	—	—

In 1958–59 the most favourable results were obtained in area III, where the whaling operations resulted in 5,117 blue-whale units or 33.6 per cent of the total catch. During the two preceding seasons 1957–58 and 1956–57 the corresponding percentage figures for this area were 35.7 and 14.9, respectively. In area IV the catch in 1958–59 was also favour-

Table m.—Number of whales killed during the seasons 1931/32—1958/59.

— 1 —

Areas	Blue-whales		Fin-whales		Humpbacks		Sperm-whales		Total	
	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent
II	38,047	20.7	124,913	32.2	1,530	5.9	12,374	20.4	176,864	26.9
III	74,335	40.4	141,634	36.5	7,541	29.0	23,141	38.2	246,651	37.4
IV	55,760	30.3	61,644	15.9	12,331	47.4	13,829	22.8	143,564	21.8
V	11,089	6.0	23,837	6.1	2,648	10.2	7,842	12.9	45,416	6.9
VI	4,125	2.3	24,185	6.2	935	3.6	1,996	3.3	31,241	4.7
I	637	0.3	12,203	3.1	1,021	3.9	1,443	2.4	15,304	2.3
Total	183,993	100.0	388,416	100.0	26,006	100.0	60,625	100.0	659,040	100.0

— 2 —

Species of whales	Area II		Area III		Area IV		Area V		Area VI		Area I		Total	
	No. of whales	Per cent	No. of whales	Per cent	No. of whales	Per cent	No. of whales	Per cent	No. of whales	Per cent	No. of whales	Per cent	No. of whales	Per cent
Blue	38,047	21.5	74,335	30.1	55,760	38.9	11,089	24.4	4,125	13.2	637	4.2	183,993	27.9
Fin	124,913	70.6	141,634	57.4	61,644	42.9	23,837	52.5	24,185	77.4	12,203	79.7	388,416	58.9
Humpback	1,530	0.9	7,541	3.1	12,331	8.6	2,648	5.8	935	3.0	1,021	6.7	26,006	4.0
Sperm	12,374	7.0	23,141	9.4	13,829	9.6	7,842	17.3	1,996	6.4	1,443	9.4	60,625	9.2
Total	176,864	100.0	246,651	100.0	143,564	100.0	45,416	100.0	31,241	100.0	15,304	100.0	659,040	100.0

able, with 4,739 blue-whale units or 31.1 per cent of the total catch. In the same area the catch amounted to 2,022 blue-whale units or 13.7 per cent in 1957–58, and only to 226 units or 1.5 per cent in 1956–57. The catch in area II was 2,215 blue-whale units or 14.5 per cent in 1958–59 against 2,872 blue-whale units or 19.5 per cent in 1957–58 and 5,724 units or 39.1 per cent in 1956–57.

The Pacific sector (70° west to 160° west) was open for pelagic whaling during the last 4 seasons. The following result in blue-whale units has been obtained in this sector:—

Season	Blue-whale units	Per cent of total catch
1955–56	3,681.2	24.9
1956–57	5,804.3	39.7
1957–58	3,687.2	25.0
1958–59	1,188.0	7.8

The catch of blue- and fin-whales during the season 1958–59 has been divided over the individual areas as shown in the survey on page 35.

Table n.—Antarctic, pelagic whaling results for the various countries 1937/38, 1938/39 and 1948/49—1958/59.

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										
1937-38.....	44,152	3,250,064	244	14,960	1,157,993	83	15,286	1,114,865	80	12,461	921,192	64	2,825	193,673	16	5,582	388,683	30
1938-39.....	36,681	2,709,281	270	11,521	842,712	90	10,541	847,127	74	9,371	746,182	65	1,170	100,945	9	7,540	483,476	49
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	168,75	16
1950-51.....	31,180	2,152,498	239	15,873	1,062,260	121	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	11,381	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
1957-58.....	36,490	2,146,206	237	13,289	857,810	94	5,534	323,472	37	5,534	323,472	37	-	-	-	11,763	627,849	68
1958-59.....	36,364	2,050,241	235	13,292	796,986	93	4,601	259,723	37	4,601	259,723	37	-	-	-	12,558	646,130	69

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	117,600	10	1,560	114,015	8	-	-	-	-	-	-
1938-39.....	5,066	374,149	41	907	68,853	8	1,106	92,964	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	3,036	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
1957-58.....	-	-	-	-	-	-	-	-	-	1,867	116,497	14	4,037	224,578	24
1958-59.....	-	-	-	-	-	-	-	-	-	2,226	126,488	12	3,687	220,914	24

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) Incl. the production of two Norwegian expeditions hired by Germany—in 1937-38 180,750 barrels and in 1938-39 118,380 barrels.

Table o.—South Georgia.

Years.	Species of whales caught.							Oil production.	Expeditions.			Number of whales per boat.
	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.	Total of whales.		Shore stations.	Floating factories.	Catchers.	
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	1: 2,187	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	1 4
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
1957-58	6	2,251	—	924	225	—	3,406	171,432	2	—	2) ²⁾ 20	150
1958-59	1	1,291	—	1,019	215	—	2,526	102,418	3	—	21	120

1) Right-whale. 2) In addition some whaling boats, which in advance of and after the pelagic baleen whale season were operating from South Georgia. These whaling boats are included under the pelagic whaling. To this fact due consideration has been taken by calculating the "Number of whales per boat."

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

Species of whales. Seasons.		Oct.	Nov.	Dec.	Jan.	Feb.	March.	April.	Total.	The Whaling Statistics' total figures.
<i>Total anima s.</i>	1938-39.....	51	240	453	332	218	343	38	1,675	1,675
	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
	1957-58.....	234	488	869	465	665	636	-	3,357	3,406
1958-59.....	342	288	378	278	516	702	-	2,504	2,526	
<i>Blue- whales.</i>	1938-39.....	-	7	131	35	24	32	3	232	232
	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
	1957-58.....	-	1	2	-	2	1	-	6	6
1958-59.....	-	-	-	-	1	-	-	1	1	
<i>Fin- whales.</i>	1938-39.....	51	232	318	292	189	211	14	1,307	1,307
	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
	1957-58.....	203	486	847	418	200	61	-	2,215	2,251
1958-59.....	342	283	329	177	100	45	-	1,276	1,291	
<i>Hump- backs.</i>	1938-39.....	-	-	-	-	-	-	-	-	-
	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.....	-	-	-	-	-	-	-	-	-
	1957-58.....	-	-	-	-	-	-	-	-	-
1958-59.....	-	-	-	-	-	-	-	-	-	
<i>Sei- whales.</i>	1938-39.....	-	-	-	-	-	13	6	19	19
	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	232	-	416	423
	1955-56.....	-	-	-	31	132	121	-	284	284
	1956-57.....	-	-	1	103	271	589	-	964	980
	1957-58.....	-	-	-	30	388	494	-	912	924
1958-59.....	-	-	-	63	340	609	-	1,012	1,019	
<i>Sperm whales.</i>	1938-39.....	-	1	4	5	5	87	15	117	117
	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
	1957-58.....	31	1	20	17	75	80	-	224	225
1958-59.....	-	5	49	38	75	48	-	215	215	

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

Species of whales. Seasons.	Oct.	Nov.	Dec.	Jan.	Feb.	March.	April.	Total.	The Whaling Statistics' total figures.
<i>Total animals</i>	1938-39	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	1950-51	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
	1950-51	0.8	1.4	8.9	5.1	1.0	1.0	—	2.9
	1951-52	—	0.4	—	—	0.3	0.9	—	0.2
	1952-53	—	—	0.3	—	—	—	—	0.2
	1953-54	0.4	0.2	1.0	0.5	—	0.2	4.3	0.4
	1954-55	0.2	—	1.4	0.5	0.5	0.2	—	0.4
	1955-56	0.3	—	0.4	—	—	0.2	—	0.1
	1956-57	0.6	0.2	0.2	0.2	0.2	0.2	—	0.2
	1957-58	—	0.2	0.2	—	0.3	0.2	—	0.2
1958-59	—	—	—	—	0.2	—	—	—	
<i>Fin-whales</i>	1938-39	100.0	96.7	70.2	88.0	86.7	61.5	36.8	78.0
	1950-51	95.5	96.3	89.2	93.7	38.5	51.6	32.4	70.4
	1951-52	98.3	98.5	96.4	89.3	48.2	37.8	14.2	75.2
	1952-53	97.3	95.7	97.4	71.8	56.1	35.3	35.7	71.1
	1953-54	99.2	99.4	95.5	76.9	58.1	31.6	5.2	72.9
	1954-55	98.7	99.0	94.1	91.0	60.2	47.5	—	83.9
	1955-56	98.6	98.7	98.5	91.8	74.3	75.6	—	87.3
	1956-57	99.4	95.8	97.0	77.9	53.6	13.4	—	65.6
	1957-58	86.8	99.6	97.5	89.9	30.1	9.6	—	66.0
1958-59	100.0	98.3	87.0	63.7	19.4	6.4	—	51.0	
<i>Hump-backs</i>	1938-39	—	—	—	—	—	—	—	—
	1950-51	0.8	0.9	0.4	—	—	0.1	—	0.3
	1951-52	—	—	1.6	0.2	—	—	—	0.4
	1952-53	0.7	0.9	0.3	—	—	0.7	—	0.4
	1953-54	—	—	0.3	0.7	0.1	0.4	—	0.3
	1954-55	—	0.3	—	—	—	—	—	0.1
	1955-56	—	—	—	—	—	—	—	—
	1956-57	—	—	—	—	—	—	—	—
	1957-58	—	—	—	—	—	—	—	—
1958-59	—	—	—	—	—	—	—	—	
<i>Sei-whales</i>	1938-39	—	—	—	—	—	3.8	15.8	1.1
	1950-51	—	—	—	0.5	54.8	29.0	42.8	18.4
	1951-52	1.7	0.4	—	7.6	47.2	46.4	40.7	18.9
	1952-53	—	—	—	25.4	42.5	43.5	37.1	21.8
	1953-54	—	—	0.2	20.1	38.6	47.0	74.8	21.5
	1954-55	0.1	—	0.2	6.5	38.3	45.5	—	13.1
	1955-56	—	—	—	4.1	23.1	18.8	—	9.5
	1956-57	—	—	0.2	18.3	43.2	84.0	—	31.4
	1957-58	—	—	—	6.5	58.3	77.7	—	27.2
1958-59	—	—	—	22.7	65.9	86.8	—	40.4	
<i>Sperm-whales</i>	1938-39	—	0.4	0.9	1.5	2.3	25.4	39.5	7.0
	1950-51	2.9	1.4	1.5	0.7	5.7	18.3	24.8	8.0
	1951-52	—	0.7	2.0	2.9	4.3	14.9	45.1	5.3
	1952-53	2.0	3.4	2.0	2.8	1.4	20.5	22.9	6.5
	1953-54	0.4	0.4	3.0	1.8	3.2	20.8	20.0	4.9
	1954-55	1.0	0.7	4.3	2.0	1.0	6.8	—	2.5
	1955-56	1.1	1.3	1.1	4.1	2.6	5.4	—	3.1
	1956-57	—	4.0	2.6	3.6	3.0	2.4	—	2.8
	1957-58	13.2	0.2	2.3	3.6	11.3	12.5	—	6.6
1958-59	—	1.7	13.0	13.6	14.5	6.8	—	8.6	

Table r.—South Georgia. Catch of immature and mature whales 1938/39 and 1950/51—1958/59.

	1938—39.		1950—51.		1951—52.		1952—53.		1953—54.		1954—55.		1955—56.		1956—57.		1957—58.		1958—59.	
	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	19	45.2	2	100.0	1	100.0	1	33.3	4	66.7	1	100.0	5	100.0	4	100.0	1	100.0
Immature females	65	48.5	16	40.0	3	75.0	2	66.7	8	80.0	7	100.0	—	—	1	50.0	1	50.0	—	—
Immature animals	109	47.0	35	42.7	5	83.3	3	75.0	9	69.2	11	84.6	1	33.3	6	85.7	5	83.3	1	100.0
Mature males	54	55.1	23	54.8	—	—	—	—	2	66.7	2	33.3	—	—	—	—	—	—	—	—
Mature females	69	51.5	24	60.0	1	25.0	1	33.3	2	20.0	—	—	2	100.0	1	50.0	1	50.0	—	—
Mature animals	123	53.0	47	57.3	1	16.7	1	25.0	4	30.8	2	15.4	2	66.7	1	14.3	1	16.7	—	—
Fin-whales.																				
Immature males	188	30.7	259	30.4	319	34.6	307	38.9	660	52.5	584	47.6	515	41.9	489	51.7	366	38.4	228	39.9
Immature females	231	33.2	357	31.6	383	36.3	323	39.1	747	54.9	605	42.0	583	41.9	537	50.3	402	31.9	222	31.5
Immature animals	419	32.1	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	768	34.7	450	35.3
Mature males	424	69.3	593	69.6	604	65.4	482	61.1	597	47.5	643	52.4	715	58.1	457	48.3	588	61.6	344	60.1
Mature females	464	66.8	773	68.4	671	63.7	503	60.9	613	45.1	837	58.0	808	58.1	530	49.7	859	68.1	482	68.5
Mature animals	888	67.9	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	1,447	65.3	826	64.7

Table s.—Antarctic whaling results for the various countries 1937/38, 1938/39 and 1946/47—1958/59.

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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
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	9,663	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
1957-58.....	39,896	2,317,638	13,289	853,810	7,080	400,705	7,080	400,705	-	-	11,763	627,849
1958-59.....	38,890	2,152,659	14,071	826,037	5,424	293,660	5,424	293,660	-	-	12,558	646,130
<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
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
1957-58.....	100.0	100.0	33.3	36.8	17.7	17.3	17.7	17.3	-	-	29.5	27.1
1958-59.....	100.0	100.0	36.2	38.4	13.9	13.6	13.9	13.6	-	-	32.3	30.0

¹⁾, ²⁾, ³⁾ See notes on next page.

Table s (continued).

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	-	-	-	-
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	110,500	2,468	147,647
1952-53 . . .	678	32,187	-	-	2,365	164,150	-	-	1,575	103,710	2,726	155,239
1953-54 . . .	1,083	53,478	-	-	-	-	-	-	1,711	97,596	3,086	169,117
1954-55 . . .	947	50,568	-	-	2,512	147,880	-	-	848	64,739	3,290	172,088
1955-56 . . .	812	43,376	-	-	2,730	160,960	-	-	1,665	103,465	2,773	153,736
1956-57 . . .	1,108	51,330	-	-	-	-	-	-	1,409	92,489	2,600	137,706
1957-58 . . .	1,860	94,199	-	-	-	-	-	-	1,867	116,497	4,037	224,578
1958-59 . . .	923	39,430	-	-	-	-	-	-	2,226	126,488	3,687	220,914
<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	-	-	-	-
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	-	-	-	4.9	4.5	5.0	4.8
1951-52 . . .	2.2	1.7	-	-	4.0	5.5	-	-	4.7	4.4	7.0	6.0
1952-53 . . .	2.2	1.5	-	-	7.7	3.9	-	-	5.1	4.9	8.9	7.3
1953-54 . . .	3.1	2.3	-	-	-	7.8	-	-	4.9	4.3	8.9	7.4
1954-55 . . .	2.5	2.2	-	-	6.7	-	-	-	2.3	2.9	8.7	7.7
1955-56 . . .	2.1	1.9	-	-	7.1	6.6	-	-	4.3	4.5	7.2	6.7
1956-57 . . .	3.1	2.3	-	-	-	7.0	-	-	3.9	4.1	7.2	6.1
1957-58 . . .	4.7	4.1	-	-	-	-	-	-	4.7	5.0	10.1	9.7
1958-59 . . .	2.4	1.8	-	-	-	-	-	-	5.7	5.9	9.5	10.3

¹⁾ Barrel = 170 kg. (Barrel = abt. $\frac{1}{6}$ 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
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	1957-58.....	126.9	124.9
1941-42.....	110.1	—	1958-59.....	114.0	118.2

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

	Blue-whales killed during 1958—59			Fin-whales killed during 1958—59		
	Number	Per cent	Per catcher's day's work	Number	Per cent	Per catcher's day's work
Total.....	1,187	100.0	0.11	25,687	100.0	1.58
Of which in:						
Area II.....	57	4.8	0.03	4,298	16.7	1.54
" III.....	373	31.4	0.10	9,385	36.6	1.72
" IV.....	335	28.2	0.14	7,277	28.3	1.58
" V.....	176	14.9	0.14	2,625	10.2	1.38
" VI.....	246	20.7	0.21	2,102	8.2	1.40
" I.....	—	—	—	—	—	—

Of the blue-whales killed in 1958-59 31.4 per cent were taken in area III against 36.9 per cent in 1957-58. In area IV the blue-whale catch represented 28.2 per cent in 1958-59 against 11.1 per cent during the preceding season.

Of the fin-whales killed 36.6 per cent were taken in area III and 28.3 per cent in area IV against, 36.7 and 14.3 per cent respectively in 1957-58.

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

	Season 1956/57		Season 1957/58		Season 1958/59	
	Number of humpbacks killed	Per cent	Number of humpbacks killed	Per cent	Number of humpbacks killed	Per cent
Total.....	673	100.0	396	100.0	2,393	100.0
Area II.....	—	—	—	—	—	—
” III.....	8	1.2	116	29.3	95	4.0
” IV.....	—	—	—	—	1,796	75.0
” V.....	—	—	23	5.8	502	21.0
” VI.....	10	1.5	167	42.2	—	—
” I.....	655	97.3	90	22.7	—	—

Table *m*, page 27, contains a summary of the aggregate catch of blue-whales, fin-whales, humpbacks and sperm-whales in the individual areas throughout the entire period 1931/32–1958/59. During this period a total number of 659,040 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 last two seasons:—

	Blue-, fin- and humpback-whales killed		
	Seasons 1931/32–1958/59	Season 1957/58	Season 1958/59
Area II	27.5 per cent	20.0 per cent	14.9 per cent
” III	37.3 ” ”	33.6 ” ”	33.7 ” ”
” IV	21.7 ” ”	13.9 ” ”	32.1 ” ”
” V	6.3 ” ”	4.5 ” ”	11.3 ” ”
” VI	4.9 ” ”	17.4 ” ”	8.0 ” ”
” I	2.3 ” ”	7.6 ” ”	— ” ”
Total	100.0 per cent	100.0 per cent	100.0 per cent

Table *n*, page 28, 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 29. During all the postwar seasons, except the season 1957–58 when only 2 shore stations were operating, 3 shore stations have carried on whaling from South Georgia. In 1958–59 2,526 whales were killed, against 3,406 in the preceding season. During the 13 post-war seasons 1946/47–1958/59 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 1958–59 only 1 blue-whale was killed. The fin-whale is the prevailing species killed in the pelagic operations as well as off South Georgia, but on this ground the

Table u.—Average weekly production of whale-oil per blue-whale unit in the pelagic whaling 1957-58 and 1958-59.

Season 1957—58.				Season 1958—59.			
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.
11/1 1958	108,990	1,140.5	95.6	10/1 1959	89,495	1,029.7	86.9
18/1 "	193,583	1,739.9	111.3	17/1 "	172,196	1,617.9	106.4
25/1 "	153,533	1,405.4	109.2	24/1 "	199,501	1,755.8	113.6
1/2 "	161,080	1,321.3	121.9	31/1 "	176,274	1,544.9	114.1
8/2 "	198,940	1,715.6	116.0	7/2 "	238,084	2,240.5	106.3
15/2 "	205,054	1,541.4	133.0	14/2 "	166,759	1,302.6	128.0
22/2 "	181,722	1,352.7	134.3	21/2 "	131,748	1,037.7	127.0
1/3 "	198,859	1,486.9	133.7	28/2 "	185,929	1,571.8	118.3
8/3 "	172,898	1,321.4	130.8	7/3 "	189,648	1,439.8	131.7
16/3 "	264,714	1,745.4	151.7	16/3 "	242,952	1,693.6	143.5
Total	1,839,373	14,770.5	124.5	Total	1,792,586	15,234.3	117.7

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 92,113 barrels of whale-oil and 10,305 barrels of sperm-oil, or a total of 102,418 barrels. During the previous season the output was 160,709 barrels of whale-oil and 10,723 barrels of sperm-oil, or a total of 171,432 barrels.

Tables *p* and *q*, pages 30 and 31, 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 1950-51. Table *r*, page 32 shows the proportion of mature and immature animals killed.

In table *s*, pages 33 and 34, the total whaling results in the Antarctic from 1937-38 up to and including 1958-59, with exception of the war years, have been distributed in respect to the individual participating countries. During the last 5 seasons the percentage proportion of the oil production of the individual countries has been as follows:—

	Oil production during the last 5 seasons				
	1954/55 Per cent	1955/56 Per cent	1956/57 Per cent	1957/58 Per cent	1958/59 Per cent
Norway	38.8	36.9	44.7	36.8	38.4
United Kingdom	21.0	20.6	17.0	17.3	13.6
Union of South Africa	4.5	4.7	3.9	—	—
Japan	16.3	17.7	21.9	27.1	30.0
Panama	6.6	7.0	—	—	—
U.S.S.R.	7.7	6.7	6.1	9.7	10.3
Netherlands	2.9	4.5	4.1	5.0	5.9
Argentina	2.2	1.9	2.3	4.1	1.8
Total	100.0	100.0	100.0	100.0	100.0

Table v.—Production of by-products in the Antarctic whaling in the seasons 1946/47—1958/59.

Seasons Countries	By-products	Whale	Whale liver	Liver-	Liver	Meat	Whale meat,	Whale	Other
		meat-meal, bone-meal, grax meal, guano	or liver flakes	oil	meat	extract, liver extract	blubber, ventral grooves	solubles	by- products ¹⁾
		Long tons	L. tons	L. tons	L. tons	L. tons	L. tons	L. tons	L. tons
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	Total	25,584	601	155	456	134	28,581	5,390	57
1953-54	Total	35,660	185	199	385	286	34,792	9,835	1,786
<i>1954-55.</i>									
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
<i>1955-56.</i>									
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
<i>1956-57.</i>									
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
<i>1957-58.</i>									
Norway		5,099	57	47	-	178	401	1,486	4
United Kingdom . .		21,611	1	39	113	411	4,822	8,147	17
Netherlands		2,242	-	15	-	-	-	-	43
U.S.S.R.		3,942	537	-	-	-	-	-	-
Japan		881	-	137	-	-	80,372	-	11,447
Argentina		11,139	-	-	-	-	-	-	-
	Total	44,914	595	238	113	589	85,595	9,633	11,511
<i>1958-59.</i>									
Norway		9,547	25	40	-	392	1,375	-	3
United Kingdom . .		16,656	-	23	138	702	3,887	2,153	15
Netherlands		3,507	-	12	-	-	-	-	41
U.S.S.R.		4,528	620	-	-	-	-	-	-
Japan		1,199	-	112	-	-	73,396	-	20,120
Argentina		5,785	-	-	-	-	-	-	-
	Total	41,222	645	187	138	1,094	78,658	2,153	20,179

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

The average output of whale-oil per blue-whale unit for South Georgia and for the pelagic expeditions from and including the season 1925-26 has been recorded in table *t*, page 35. For pelagic whaling the average output was 118.2 barrels during the season 1958-59 against 124.9 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 1951-52.

Season	Average oil output per blue-whale unit during the last 8 seasons						Total Barrels
	Area II Barrels	Area III Barrels	Area IV Barrels	Area V Barrels	Area VI Barrels	Area I Barrels	
1951-52 ..	141.5	129.9	115.2	122.3	136.2	—	129.4
1952-53 ..	149.9	120.2	117.4	126.2	134.3	—	128.0
1953-54 ..	137.3	129.0	114.1	105.1	119.7	148.2	128.6
1954-55 ..	133.4	112.2	115.3	112.0	118.2	—	117.3
1955-56 ..	127.5	113.7	105.6	114.2	118.3	144.3	121.6
1956-57 ..	132.0	119.3	146.5	88.2	118.3	122.9	128.7
1957-58 ..	133.6	125.6	126.5	99.7	116.7	126.9	124.9
1958-59 ..	131.0	113.6	107.0	112.3	117.7	—	118.2

Table *u*, page 37, shows the average weekly production of whale oil per blue-whale unit for the pelagic expeditions during the seasons 1957-58 and 1958-59. It will appear from this table that the average weekly yield per blue-whale unit during the season 1957-58 increased from 111.3 barrels during the week 12/1-18/1 to 151.7 barrels during the last week 9/3-16/3. In the season 1958-59 the output increased from 106.4 barrels during the week 11/1-17/1 to 143.5 barrels during the last week 8/3-16/3.

In table *v*, page 38, detailed information is given on the production of by-products in the Antarctic during the post-war seasons. From and including the season 1954-55 the figures are distributed in respect to the individual countries.

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

Nationalities	Number of men employed in the Antarctic whaling industry					
	Season 1956/57		Season 1957/58		Season 1958/59	
	Number	Per cent	Number	Per cent	Number	Per cent
Norwegian	7,299	44.2	6,693	37.8	6,817	39.0
Japanese	6,486	39.3	8,402	47.5	7,974	45.7
British	1,144	6.9	911	5.1	944	5.4
Russian	820 ¹⁾	5.0	940 ¹⁾	5.3	940 ¹⁾	5.4
Others ²⁾	758	4.6	765	4.3	792	4.5
Total	16,507	100.0	17,711	100.0	17,467	100.0

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

Table No. 1.—Whaling in the Antarctic in the season 1958/59.

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	1	1,291	—	1,019	215	2,526	102,418	3	—	21
Antarctic, pelagic whaling	1,191	25,837	2,394	1,402	5,437	36,261	2,050,241	—	20	235
Total	1,192	27,128	2,394	2,421	5,652	38,787	2,152,659	3	20	256

¹⁾ Barrel = 170 kg. (Barrel = abt. $\frac{1}{8}$ long ton, 1 long ton = 1,016 kg.) ²⁾ In addition 103 Minke-whales and 110 killer-whales.

Table No. 2.—Whaling results for the various countries in the Antarctic in the season 1958/59.

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⁾			
Antarctic, pelagic	391	10,511	407	87	1,896	13,292	796,986	—	9	93
South Georgia . . .	—	349	—	337	93	779	29,051	1	—	7
Japan:—										
Antarctic, pelagic	417	7,865	1,264	1,095	1,917	12,558	646,130	—	6	69
United Kingdom:—										
South Georgia . . .	—	419	—	340	65	824	33,937	1	—	7
Antarctic, pelagic	56	3,360	303	72	809	4,600	259,723	—	3	37
U.S.S.R.:—										
Antarctic, pelagic	315	2,194	420	126	530	3,585	220,914	—	1	24
Netherlands:—										
Antarctic, pelagic	12	1,907	—	22	285	2,226	126,488	—	1	12
Argentina:—										
South Georgia . . .	1	523	—	342	57	923	39,430	1	—	7
Total	1,192	27,128	2,394	2,421	5,652	38,787	2,152,659	3	20	256

¹⁾ Barrel = 170 kg. (Barrel = abt. $\frac{1}{8}$ long ton, 1 long ton = 1,016 kg.) ²⁾ In addition 1 Minke-whale. ³⁾ In addition 102 Minke-whales and 110 killer-whales.

Table No. 3.—Average size of whales caught in the Antarctic in the season 1958/59.

Geographical areas. Number of whales measured.	Company.	Average size.		
		Males.	Females.	Total animals.
<u>Blue-whales.</u>				
<i>South Georgia</i>	No. 1	Engl. feet. 64.00	Engl. feet. —	Engl. feet. 64.00
Males 1				
<i>Antarctic, pelagic whaling</i>	No. 1	76.73	86.78	82.21
Males 530	" 2	77.52	83.95	80.50
Females 657	" 3	74.33	82.29	79.90
Total 1,187.	" 4	76.12	80.17	78.47
	" 5	76.27	79.52	77.97
	" 6	74.50	80.06	77.64
	" 7	76.21	78.33	77.32
	" 8	75.86	78.18	77.28
	" 9	74.71	80.80	77.25
	" 10	75.13	78.00	77.15
	" 11	74.75	79.37	77.12
	" 12	76.40	77.57	77.08
	" 13	73.29	79.13	77.06
	" 14	75.67	78.00	77.00
	" 15	74.17	80.20	76.91
	" 16	70.20	78.40	76.76
	" 17	72.30	79.00	76.42
	" 18	75.63	76.17	75.95
	" 19	72.00	77.50	74.75
	" 20	75.00	70.00	73.33
Average		75.95	80.17	78.28
<u>Fin-whales.</u>				
<i>South Georgia</i>	No. 1	63.91	68.09	66.25
Males 572	" 2	63.76	67.89	66.15
Females 704	" 3	63.09	67.06	65.09
Total 1,276.				
Average		63.61	67.75	65.89
<i>Antarctic, pelagic whaling</i>	No. 1	66.78	70.03	68.38
Males 12,630	" 2	66.28	69.74	68.00
Females 13,057	" 3	65.65	69.66	67.84
Total 25,687.	" 4	65.37	69.54	67.74
	" 5	65.94	69.45	67.71
	" 6	65.71	68.53	67.32
	" 7	65.17	68.52	66.80
	" 8	65.42	68.09	66.73
	" 9	64.87	68.32	66.62
	" 10	65.20	67.08	66.13
	" 11	64.71	67.48	66.04
	" 12	64.19	67.51	65.94
	" 13	64.75	67.42	65.94
	" 14	64.44	67.21	65.87
	" 15	63.93	67.56	65.69
	" 16	64.30	66.80	65.61
	" 17	64.20	66.91	65.59
	" 18	64.52	66.83	65.57
	" 19	63.59	66.29	65.02
	" 20	63.18	65.46	64.27
Average		64.81	67.82	66.30

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	Engl. feet	Engl. feet	Engl. feet
Males 1,150 } Total 2,393	" 2	—	43.00	43.00
Females 1,243 }	" 3	41.75	43.63	43.00
	" 4	42.29	43.00	42.67
	" 5	40.50	43.56	42.33
	" 6	40.52	42.34	41.72
	" 7	41.25	41.67	41.43
	" 8	40.37	41.37	40.80
	" 9	40.17	41.08	40.50
	" 10	39.40	41.40	40.40
	" 11	41.00	39.25	40.13
	" 12	39.00	40.56	39.87
	" 13	38.78	40.33	39.65
	" 14	38.73	39.86	39.28
	" 15	38.42	39.43	38.88
	" 16	38.51	40.33	39.49
	" 17	37.72	39.53	38.57
	" 17	37.00	38.53	37.81
Average		39.15	40.70	39.95
<u>Sei-whales.</u>				
<i>South Georgia</i>	No. 1	47.65	51.30	49.96
Males 411 } Total 1,012	" 2	47.80	50.88	49.71
Females 601 }	" 3	47.71	50.86	49.57
Average		47.84	51.05	49.75
<i>Antarctic, pelagic whaling</i>	No. 1	—	53.50	53.50
Males 312 } Total 1,394.	" 2	59.00	52.95	53.23
Females 1,082 }	" 3	50.00	53.00	52.00
	" 4	—	51.67	51.67
	" 5	—	51.25	51.25
	" 6	49.93	51.50	51.15
	" 7	48.89	51.95	51.06
	" 8	47.13	51.61	51.00
	" 9	48.67	51.33	50.83
	" 10	48.76	51.59	51.07
	" 11	48.85	51.33	50.79
	" 12	49.00	51.50	50.67
	" 13	48.36	51.33	50.66
	" 14	48.45	51.36	50.63
	" 15	49.74	50.74	50.37
	" 16	46.00	51.20	49.71
	" 17	—	49.20	49.20
Average		48.83	51.41	50.83
<u>Sperm-whales.</u>				
<i>South Georgia</i>	No. 1	47.12	—	47.12
Males 215.	" 2	46.91	—	46.91
	" 3	45.76	—	45.76
Average		46.47	—	46.47

Table No. 3 (continued).

Geographical areas. Number of whales measured.	Company.	Average size.		
		Males.	Females.	Total animals.
<i>Antarctic, pelagic whaling</i> Males 5,428.	No. 1	Engl. feet 49.00	Engl. feet —	Engl. feet 49.00
	" 2	48.78	—	48.78
	" 3	48.66	—	48.66
	" 4	48.27	—	48.27
	" 5	48.01	—	48.01
	" 6	47.98	—	47.98
	" 7	47.79	—	47.79
	" 8	47.74	—	47.74
	" 9	47.57	—	47.57
	" 10	47.56	—	47.56
	" 11	47.46	—	47.46
	" 12	47.33	—	47.33
	" 13	47.32	—	47.32
	" 14	47.03	—	47.03
	" 15	46.96	—	46.96
	" 16	46.83	—	46.83
	" 17	46.72	—	46.72
	" 18	45.59	—	45.59
	" 19	45.55	—	45.55
	" 20	44.54	—	44.54
	Average		47.20	—	47.20

Table No. 4.—Whales caught in the Antarctic in the season 1958/59,
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.	
59	1	—	1	83	9	44	53
60	—	—	—	84	21	25	46
61	—	—	—	85	8	42	50
62	—	—	—	86	4	41	45
63	2	1	3	87	5	35	40
64	1	3	4	88	—	28	28
65	3	3	6	89	—	26	26
66	7	2	9	90	—	13	13
67	3	6	9	91	—	12	12
68	2	2	4	92	—	6	6
69	1	3	4	93	—	4	4
70	38	39	77	94	—	2	2
71	33	29	62	95	—	1	1
72	36	33	69	96	—	1	1
73	49	24	73	Sum	531	657	1,188
74	47	24	71	Average size {			Males: 75.92 feet
75	42	15	57	Females: 80.17 "			Total animals: 78.27 "
76	44	35	79	Per cent {			Males: 55.30
77	25	10	35	Females: 44.70			
78	33	28	61				
79	33	31	64				
80	39	20	59				
81	26	31	57				
82	19	38	57				

Table No. 4 (continued).

Fin-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
45	1	—	1	69	889	699	1,588
46	—	—	—	70	771	947	1,718
47	1	—	1	71	422	855	1,277
48	1	1	2	72	252	959	1,211
49	4	2	6	73	112	836	948
50	7	2	9	74	53	830	883
51	7	6	13	75	23	737	760
52	31	17	48	76	10	495	505
53	30	28	58	77	1	269	270
54	68	43	111	78	2	162	164
55	47	57	104	79	—	84	84
56	35	29	64	80	—	47	47
57	432	414	846	81	1	15	16
58	503	386	889	82	—	7	7
59	539	445	984	83	—	4	4
60	689	619	1,308	84	—	1	1
61	657	505	1,162	Sum	13,202	13,761	26,963
62	830	542	1,372	Average size	Males: 64.76 feet		
63	850	553	1,403		Females: 67.81 "		
64	977	614	1,591		Total animals: 66.28 "		
65	1,232	656	1,888	Per cent	Males: 48.96		
66	1,198	594	1,792		Females: 51.04		
67	1,342	637	1,979				
68	1,185	664	1,849				

Humpbacks.

28	—	1	1	45	19	75	94
29	—	1	1	46	7	50	57
30	4	2	6	47	5	33	38
31	—	4	4	48	4	14	18
32	4	4	8	49	1	11	12
33	3	2	5	50	—	5	5
34	5	2	7	51	—	1	1
35	83	65	148	52	—	—	—
36	107	76	183	53	—	1	1
37	130	80	210	Sum	1,150	1,243	2,393
38	153	106	259	Average size	Males: 39.15 feet		
39	169	133	302		Females: 40.70 "		
40	144	131	275		Total animals: 39.95 "		
41	106	137	243	Per cent	Males: 48.06		
42	109	122	231		Females: 51.94		
43	69	103	172				
44	28	84	112				

Sei-whales.

38	1	—	1	54	3	144	147
40	1	1	2	55	1	82	83
41	3	1	4	56	2	21	23
42	2	3	5	57	—	8	8
43	6	3	9	58	—	2	2
44	13	6	19	59	1	1	2
45	29	14	43	61	—	1	1
46	86	20	106	Sum	723	1,683	2,406
47	123	55	178	Average size	Males: 48.27 feet		
48	133	104	237		Females: 51.28 "		
49	118	124	242		Total animals: 50.38 "		
50	105	222	327	Per cent	Males: 30.05		
51	66	287	353		Females: 69.95		
52	21	339	360				
53	9	245	254				

Table No. 4 (continued).

Sperm-whales.			
Engl. feet.	Number of males.	Engl. feet.	Number of males.
36	1	52	247
37	1	53	134
38	10	54	79
39	71	55	40
40	110	56	12
41	125	57	5
42	192	58	—
43	259	59	—
44	351	60	—
45	481	61	—
46	608	62	1
47	688		
48	640	Sum	5,643
49	578		
50	606	Average size:	
51	404	Males: 47.17	

a. South Georgia.

Blue-whales.

1 male: 64.00 feet.

Fin-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
49	2	—	2	69	23	35	58
50	1	—	1	70	28	52	80
51	—	1	1	71	11	54	65
52	6	6	12	72	7	58	65
53	2	3	5	73	4	55	59
54	7	7	14	74	2	42	44
55	8	5	13	75	3	47	50
56	4	4	8	76	1	20	21
57	35	31	66	77	—	16	16
58	27	17	44	78	—	6	6
59	32	27	59	79	—	3	3
60	37	31	68	80	—	4	4
61	32	28	60				
62	35	18	53	Sum	572	704	1,276
63	40	26	66				
64	35	18	53	Average size	{ Males: 63.61 feet Females: 67.75 " Total animals: 65.89 "		
65	42	23	65	Per cent	{ Males: 44.83 Females: 55.17		
66	43	22	65				
67	55	21	76				
68	50	24	74				

Table No. 4 (continued).

Sei-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
38	1	—	1	52	8	111	119
40	1	1	2	53	3	77	80
41	3	1	4	54	—	48	48
42	2	2	4	55	—	37	37
43	4	2	6	56	—	9	9
44	12	4	16	57	—	3	3
45	21	6	27	Sum	411	601	1.012
46	54	12	66	Average size	Males: 47.84 feet		
47	75	24	99		Females: 51.05 "		
48	80	49	129		Total animals: 49.75 "		
49	70	43	113	Per cent	Males: 40.61		
50	50	80	130		Females: 59.39		
51	27	92	119				

Sperm-whales.

Engl. feet.	Number of males.	Engl. feet.	Number of males.
41	5	49	13
42	20	50	14
43	24	51	9
44	24	52	7
45	16	53	6
46	23	54	4
47	21	55	1
48	28	Sum	215

Average size: Males: 46.47 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.	
59	1	—	1	83	9	44	53
60	—	—	—	84	21	25	46
61	—	—	—	85	8	42	50
62	—	—	—	86	4	41	45
63	2	1	3	87	5	35	40
64	—	3	3	88	—	28	28
65	3	3	6	89	—	26	26
66	7	2	9	90	—	13	13
67	3	6	9	91	—	12	12
68	2	2	4	92	—	6	6
69	1	3	4	93	—	4	4
70	38	39	77	94	—	2	2
71	33	29	62	95	—	1	1
72	36	33	69	96	—	1	1
73	49	24	73				
74	47	24	71	Sum	530	657	1,187
75	42	15	57				
76	44	35	79				
77	25	10	35				
78	33	28	61	Average size	{ Males: 75.95 feet Females: 80.17 " Total animals: 78.28 "		
79	33	31	64	Per cent	{ Males: 44.65 Females: 55.35		
80	39	20	59				
81	26	31	57				
82	19	38	57				

Fin-whales.

45	1	—	1	70	743	895	1,638
46	—	—	—	71	411	801	1,212
47	1	—	1	72	245	901	1,146
48	1	1	2	73	108	781	889
49	2	2	4	74	51	788	839
50	6	2	8	75	20	690	710
51	7	5	12	76	9	475	484
52	25	11	36	77	1	253	254
53	28	25	53	78	2	156	158
54	61	36	97	79	—	81	81
55	39	52	91	80	—	43	43
56	31	25	56	81	1	15	16
57	397	383	780	82	—	7	7
58	476	369	845	83	—	4	4
59	507	418	925	84	—	1	1
60	652	588	1,240	Sum	12,630	13,057	25,687
61	625	477	1,102				
62	795	524	1,319				
63	810	527	1,337	Average size	{ Males: 64.81 feet Females: 67.82 " Total animals: 66.30 "		
64	942	596	1,538	Per cent	{ Males: 49.17 Females: 50.83		
65	1,190	633	1,823				
66	1,155	572	1,727				
67	1,287	616	1,903				
68	1,135	640	1,775				
69	866	664	1,530				

Table No. 4 (continued).

Humpbacks.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.			
	males.	females.			males.	females.				
28	—	1	1	45	19	75	94			
29	—	1	1	46	7	50	57			
30	4	2	6	47	5	33	38			
31	—	4	4	48	4	14	18			
32	4	4	8	49	1	11	12			
33	3	2	5	50	—	5	5			
34	5	2	7	51	—	1	1			
35	83	65	148	52	—	—	—			
36	107	76	183	53	—	1	1			
37	130	80	210	Sum	1,150	1,243	2,393			
38	153	106	259	Average size	Males: 39.15 feet.	Females: 40.70 "	Total animals: 39.95 "			
39	169	133	302					Per cent	Males: 48.06	Females: 51.94
40	144	131	275							
41	106	137	243							
42	109	122	231							
43	69	103	172							
44	28	84	112							

Sei-whales.

42	—	1	1	56	2	12	14			
43	2	1	3	57	—	5	5			
44	1	2	3	58	—	2	2			
45	8	8	16	59	1	1	2			
46	32	8	40	61	—	1	1			
47	48	31	79	Sum	312	1,082	1,394			
48	53	55	108	Average size	Males: 48.83 feet.	Females: 51.41 "	Total animals: 50.83 "			
49	48	81	129					Per cent	Males: 22.38	Females: 77.62
50	55	142	197							
51	39	195	234							
52	13	228	241							
53	6	168	174							
54	3	96	99							
55	1	45	46							

Sperm-whales.

Engl. feet.	Number of males.	Engl. feet.	Number of males
36	1	48	612
37	1	49	565
38	10	50	592
39	71	51	395
40	110	52	240
41	120	53	128
42	172	54	75
43	235	55	39
44	327	56	12
45	465	57	5
46	585	62	1
47	667	Sum	5,428

Average size: Males: 47.20 feet.

**Table No. 5.—Whales caught in the Antarctic in the season 1958/59,
by species, sex and groups of size.**

Total Antarctic.

Blue-whales.

	Number of whales.	Per cent.
Group 1. (70 feet and less).....	117	9.85
" 2. (71 feet to and incl. 85 feet)	893	75.17
" 3. (above 85 feet).....	178	14.98
	1,188	100.00
Immature males	176	33.15
" females	219	33.33
" animals	395	33.25
Mature males	355	66.85
" females	438	66.67
" animals	793	66.75

Fin-whales.

	Number of whales.	Per cent.
Group 1. (55 feet and less)	353	1.31
" 2. (56 feet to and incl. 65 feet).....	11,507	42.68
" 3. (above 65 feet).....	15,103	56.01
	26,963	100.00
Immature males.....	3,882	29.40
" females.....	4,263	30.98
" animals.....	8,145	30.21
Mature males	9,320	70.60
" females.....	9,498	69.02
" animals	18,818	69.79

a. South Georgia.

Blue-whales.

	Number of whales.	Per cent.
Group 1. (70 feet and less).....	1	100.00
" 2. (71 feet to and incl. 85 feet).....	—	—
" 3. (above 85 feet).....	—	—
	1	100.00
Immature males.....	1	100.00
" females	—	—
" animals.....	1	100.00
Mature males	—	—
" females	—	—
" animals	—	—

Table No. 5 (continued).

Fin-whales.

	Number of whales.	Per cent.
Group 1. (55 feet and less)	48	3.76
„ 2. (56 feet to and incl. 65 feet)	542	42.48
„ 3. (above 65 feet)	686	53.76
	1,276	100.00
Immature males	228	39.86
„ females	222	31.53
„ animals	450	35.27
Mature males	344	60.14
„ females	482	68.47
„ animals	826	64.73

b. Antarctic, pelagic whaling.

Blue-whales.

	Number of whales.	Per cent.
Group 1. (70 feet and less)	116	9.77
„ 2. (71 feet to and incl. 85 feet)	893	75.23
„ 3. (above 85 feet)	178	15.00
	1,187	100.00
Immature males	175	33.02
„ females	219	33.33
„ animals	394	33.19
Mature males	355	66.98
„ females	438	66.67
„ animals	793	66.81

Fin-whales.

	Number of whales.	Per cent.
Group 1. (55 feet and less)	305	1.19
„ 2. (56 feet to and incl. 65 feet)	10,965	42.69
„ 3. (above 65 feet)	14,417	56.12
	25,687	100.00
Immature males	3,654	28.93
„ females	4,041	30.95
„ animals	7,695	29.96
Mature males	8,976	71.07
„ females	9,016	69.05
„ animals	17,992	70.04

Table No. 6.—Average production of oil per blue-whale unit in the Antarctic in the season 1958/59.

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	261.5	31,094	118.9
	„ 2	318.3	36,220	113.8
	„ 3	227.9	24,799	108.8
	Total	807.7	92,113	114.0
<i>Antarctic, pelagic whaling</i>	No. 1	936.1	135,432	144.7
	„ 2	468.8	66,205	141.2
	„ 3	470.7	64,315	136.6
	„ 4	613.3	82,018	133.7
	„ 5	1,600.5	200,540	125.3
	„ 6	876.2	105,560	120.5
	„ 7	545.9	65,569	120.1
	„ 8	722.2	86,723	120.1
	„ 9	280.0	33,508	119.7
	„ 10	951.2	112,704	118.5
	„ 11	890.0	102,982	115.7
	„ 12	730.2	84,270	115.4
	„ 13	978.5	111,882	114.3
	„ 14	629.0	70,649	112.3
	„ 15	604.3	66,441	109.9
	„ 16	835.5	91,677	109.7
	„ 17	665.4	70,993	106.7
	„ 18	785.5	81,600	103.9
	„ 19	935.0	95,706	102.4
	„ 20	701.8	69,673	99.3
Total		15,220.1	1,798,447	118.2

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

Table No. 7.—Size of pregnant whale females caught in the Antarctic in the season 1958/59.

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.		
64	1	83	25	Total number of blue-whale females measured 657, of which pregnant animals 230, or 35.01 per cent.
70	1	84	15	
72	2	85	26	
74	1	86	19	
75	1	87	19	
76	8	88	19	
77	4	89	17	
78	6	90	6	
79	8	91	10	
80	6	92	6	
81	15	93	3	
82	12			
		Total	230	

Table No. 7 (continued).

Fin-whale females.

Length of mothers.	Number of pregnant animals.	Length of mothers.	Number of pregnant animals.	Number of foetuses measured
Engl. feet.		Engl. feet.		
57	1	72	598	5,308
59	2	73	554	of which twin pairs 48
60	3	74	552	» » quadruplets 1
61	9	75	478	» » octuples 1
62	15	76	330	Total number of fin-whale females measured 12,630, of which pregnant animals 5,250, or 41.57 per cent.
63	38	77	177	
64	76	78	115	
65	133	79	51	
66	153	80	28	Total number of mature fin-whale females (above 64 feet) measured 9,498, of which pregnant animals 5,106, or 53.76 per cent.
67	219	81	11	
68	281	82	6	
69	359	83	4	
70	546			
71	511	Total	5,250	

Humpback females.

Length of mothers.	Number of pregnant animals.	Length of mothers.	Number of pregnant animals.	Number of foetuses measured
Engl. feet.		Engl. feet.		
36	4	45	49	527
37	8	46	23	of which twin pairs 2
38	23	47	19	Total number of humpback females measured 1,242, of which pregnant animals 525, or 42.27 per cent.
39	46	48	5	
40	64	49	4	Total number of mature humpback females (above 40 feet) measured 607, of which pregnant animals 380, or 62.60 per cent.
41	69	50	4	
42	79			
43	72	Total	525	
44	56			

Sei-whale females.

Length of mothers.	Number of pregnant animals.	Length of mothers.	Number of pregnant animals.	Number of foetuses measured
Engl. feet.		Engl. feet.		
42	1	53	135	865
45	1	54	87	of which twin pairs 9
46	2	55	45	
47	13	56	10	
48	52	57	2	
49	54	58	2	
50	110	59	1	
51	152			
52	189	Total	856	

Table No. 8.—Whale fetuses measured in the Antarctic in the season 1958/59, by species and groups of size, in each month.

Blue-whale fetuses.

Groups of size. Engl. feet.	February	March	Total
2'—2' 11".....	1	—	1
3'—3' 11".....	1	1	2
4'—4' 11".....	3	1	4
5'—5' 11".....	1	—	1
6'—6' 11".....	4	1	5
7'—7' 11".....	8	2	10
8'—8' 11".....	7	3	10
9'—9' 11".....	10	1	11
10'—10' 11".....	12	1	13
11'—11' 11".....	15	2	17
12'—12' 11".....	18	8	26
13'—13' 11".....	7	5	12
14'—14' 11".....	20	5	25
15'—15' 11".....	13	7	20
16'—16' 11".....	19	9	28
17'—17' 11".....	6	15	21
18'—18' 11".....	3	4	7
19'—19' 11".....	3	3	6
20'—20' 11".....	5	1	6
21'—21' 11".....	—	1	1
22'—22' 11".....	1	—	1
23'—23' 11".....	2	—	2
24'—24' 11".....	1	—	1
Total blue-whale fetuses.....	160	70	230
Average size of fetuses.....	12' 10"	14' 7"	13' 4"

Fin-whale fetuses.

Groups of size. Engl. feet.	Oct.	Nov.	Dec.	Jan.	Febr.	March	Total
Less than 1'.....	6	3	4	25	4	1	43
1'—1' 11".....	15	6	—	90	24	4	139
2'—2' 11".....	20	8	3	136	53	25	245
3'—3' 11".....	13	8	7	203	85	29	345
4'—4' 11".....	6	9	5	264	115	38	437
5'—5' 11".....	1	9	10	319	144	55	538
6'—6' 11".....	—	4	7	311	159	60	541
7'—7' 11".....	—	4	7	279	145	80	515
8'—8' 11".....	—	—	4	240	175	71	490
9'—9' 11".....	—	1	5	197	141	57	401
10'—10' 11".....	—	—	3	189	180	85	457
11'—11' 11".....	—	—	—	85	128	65	278
12'—12' 11".....	—	—	—	50	140	80	270
13'—13' 11".....	—	—	—	26	95	83	204
14'—14' 11".....	—	—	—	10	94	71	175
15'—15' 11".....	—	—	—	6	53	60	119
16'—16' 11".....	—	—	—	—	24	35	59
17'—17' 11".....	—	—	—	1	7	20	28
18'—18' 11".....	1	—	—	—	5	11	17
19'—19' 11".....	—	—	—	—	—	3	3
20'—20' 11".....	—	—	—	—	2	1	3
23'—23' 11".....	—	—	—	—	—	1	1
Total fin-whale fetuses.....	62	52	55	2,431	1,773	935	5,308
Average size of fetuses.....	2' 5"	3' 8"	5' 5"	6' 5"	8' 8"	10' 1"	7' 9"

Table No. 8 (continued).

Humpback foetuses.	
Groups of size.	February.
Engl. feet.	
Less than 1'	6
1'— 1' 11"	65
2'— 2' 11"	177
3'— 3' 11"	193
4'— 4' 11"	73
5'— 5' 11"	10
6'— 6' 11"	3
Total humpback foetuses	527
Average size of foetuses	2' 11"

Sei-whale foetuses.

Groups of size	Jan.	Febr.	March.	Total.
Engl. feet.				
1'— 1' 11"	—	1	—	1
2'— 2' 11"	1	1	1	3
3'— 3' 11"	14	2	1	17
4'— 4' 11"	9	7	5	21
5'— 5' 11"	17	25	11	53
6'— 6' 11"	26	33	13	72
7'— 7' 11"	35	58	29	122
8'— 8' 11"	28	83	39	150
9'— 9' 11"	9	90	60	159
10'—10' 11"	—	57	76	133
11'—11' 11"	—	24	56	80
12'—12' 11"	1	7	31	39
13'—13' 11"	—	—	8	8
14'—14' 11"	—	—	3	3
15'—15' 11"	—	—	4	4
Total sei-whale foetuses	140	388	337	865
Average size of foetuses	6' 8"	8' 5"	9' 7"	8' 7"

Table No. 9.—Whale foetuses measured in the Antarctic in the season 1958/59, 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	76	84	—	160	90.48
March	29	41	—	70	70.73
Total	105	125	—	230	84.00

Table No. 9 (continued).

Kind of foetuses. Months.	Number of		Sex not stated.	Total foetuses.	Number of males per 100 females.
	males.	females.			
Fin-whale foetuses.					
October.....	34	28	—	62	121.43
November.....	28	24	—	52	116.67
December.....	29	26	—	55	111.54
January.....	1 255	1,167	9	2,431	107.54
February.....	890	880	3	1,773	101.14
March.....	472	463	—	935	101.94
Total	2,708	2,588	12	5,308	104.64
Humpback foetuses.					
February.....	262	264	1	527	99.24
Sei-whale foetuses.					
January.....	75	65	—	140	115.38
February.....	184	204	—	388	90.20
March.....	152	185	—	337	82.16
Total	411	454	—	865	90.53

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