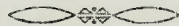


INTERNATIONAL
WHALING STATISTICS

XXXIII

EDITED BY
THE COMMITTEE FOR WHALING STATISTICS



OSLO 1955

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PREFACE

The present publication, International Whaling Statistics No. XXXIII comprises whaling operations in the Antarctic in the season 1952-53 and on grounds outside the Antarctic in 1953.

Information is lacking in respect to the catch and production in 1953 from the two companies "*Ballenera Paracas S.A.*" and "*Consortio Ballenero S.A.*", which during this season have been operating from the Peruvian coast with land stations in Pisco Bay. Otherwise the statistics should, according to the knowledge of the Committee, be complete.

When preparing the introductory tables to this publication the following corrections have been made:

The Committee has received revised statistics on the catch from the Azores, Madeira and Portugal during the period 1937/38-1951/52, and the appropriate corrections have been made conformably with these new statements. The Committee has also received particulars for 1952 from the Spanish company "*Industrial Ballenera de Corcubion*", and the statistics have been corrected accordingly.

Earlier publications recorded the particulars from the Azores, Madeira and Portugal collectively in one table. In this publication the results are specified in three tables.

The catch from Kamtchatka and the Kuril Islands, which likewise was collected into one table, is now specified in two tables.

Oslo, January 1955.

Gunnar Jahn.

Birger Bergersen.

Einar Vangstein.

INTRODUCTION

The present publication comprises the world aggregate whaling operations in 1953. This means whaling in the Antarctic season 1952-53 and on grounds outside the Antarctic in the calendar year 1953. Particulars of the operations in the Antarctic season 1952-53 are given in Publication No. XXXII, while the present publication gives detailed information about the operations outside the Antarctic in 1953.

The usual tables illustrating the development of whaling from 1937-38 to and including 1952-53 have been enclosed on pages 11-27 as an annex to this introduction.

From these tables will be seen that during the post-war years there has been considerably greater whaling activity on grounds outside the Antarctic than in the years prior to 1940. Thus, the whaling material in operation increased each year up to and including 1951. According to table *a*, page 11, 50 shore stations, 7 floating factories, and 210 catchers were employed in these areas in 1951. A heavy fall in the oil prices at the beginning of 1952 resulted, however, in a diminished whaling activity outside the Antarctic. In 1952 the whaling material in operation was reduced to 47 shore stations, 4 floating factories and 143 catchers, and in 1953 it was further reduced to 2 floating factories and 124 catchers — the number of shore stations being, however, unaltered.

Whaling outside the Antarctic was in 1953 carried on by the same number of companies as in the previous year. Two companies, which operated in 1952 — each of them with one floating factory — from French Congo and Bonin Island, respectively, did not resume whaling in 1953. On the other hand, two companies, which did not take part in 1952, resumed whaling in 1953, one from the shore station Lopra on Faroe Islands and the other from a new-built shore station in Pisco Bay on the coast of Peru.

The following grounds outside the Antarctic were operated in 1953:

Africa: Natal, Cape Province, Spanish Morocco.

Brazil: Paraiba, Sta Catarina.

North Atlantic and Arctic: Azores, Madeira, Spain, Norway, Faroe Islands
Iceland, West Greenland, Newfoundland.

Pacific North: British Columbia, Kamtchatka, Kuril Islands, Japan.

Other grounds: Chile, Peru, Australia, New Zealand.

These whaling grounds were the same as those operated in the previous season — apart from the two grounds French Congo and Bonin Island, where whaling was carried on in 1952 but not in 1953.

In the following survey is recorded the number of whales killed on grounds outside the Antarctic during the period 1937/38–1952/53. Figures for the Antarctic are also included in order to give the total world whaling during this period.

Season	Total of whales killed	In Antarctic			On other grounds		
		Total	Baleen whales	Sperm-whales	Total	Baleen whales	Sperm-whales
1937–38.....	54,902	46,039	45,172	867	8,863	5,967	2,896
1938–39.....	45,783	38,356	35,771	2,585	7,427	4,501	2,926
1939–40.....	37,709	32,900	30,962	1,938	4,809	2,076	2,733
1940–41.....	23,638	16,363	15,559	804	7,275	2,438	4,837
1941–42.....	8,014	1,425	1,316	109	6,589	1,741	4,848
1942–43.....	8,372	998	974	24	7,374	1,895	5,479
1943–44.....	6,445	1,799	1,698	101	4,646	2,133	2,513
1944–45.....	5,919	2,891	2,846	45	3,028	1,404	1,624
1945–46.....	19,384	13,387	13,114	273	5,997	2,809	3,188
1946–47.....	34,820	25,593	24,162	1,431	9,227	3,112	6,115
1947–48.....	43,431	31,318	28,696	2,622	12,113	4,885	7,228
1948–49.....	44,002	31,435	27,357	4,078	12,567	7,629	4,938
1949–50.....	45,060	32,396	29,669	2,727	12,664	7,205	5,459
1950–51.....	55,795	33,997	29,029	4,968	21,798	8,502	13,296
1951–52.....	49,832	35,237	29,752	5,485	14,595	8,523	6,072
1952–53.....	43,669	30,653	28,321	2,332	13,016	7,031	5,985

The total number of whales killed on all whaling grounds increased considerably during the post-war years, and during the latest seasons it has kept at approximately the same level as that of the last pre-war seasons. The maximum figure of 55,795 whales, reached in 1950–51, was mainly due to the exceptionally high sperm-whale catch outside the Antarctic waters in this season. During the two succeeding seasons, when the number of sperm-whales killed decreased considerably — in 1951–52 by about 7,000 animals on grounds outside the Antarctic and in 1952–53 by about 3,000 animals in the Antarctic — the aggregate number of whales killed decreased to 49,832 and 43,669, respectively.

Whaling outside the Antarctic has during the post-war years been carried on to a far greater extent than during the last pre-war years, and as will be seen from the above survey, this whaling has constituted a considerably higher share of the total world catch during the post-war years than before the war. This increased activity on grounds outside the Antarctic in recent years applies to baleen- as well as sperm-whale catch. The exceptionally high number of sperm-whales caught in 1951 — 13,296 animals — was a result of the activities of three floating factories operating off the coast of Peru. In each of the seasons 1952 and 1953, when whaling

along the coast of Peru was of minor importance, the number of sperm-whales killed was about 6,000.

The statistical data covering the whaling results on grounds outside the Antarctic in 1953 are not quite complete. As mentioned in the preface, figures are lacking in respect to the catch from 3 shore stations on the coast of Peru. It may be assumed, however, that the results of these operations were relatively small, so that the total yields on grounds outside the Antarctic in 1953 were a little lower than in 1952.

In the annexed tables *j-y*, pages 20-29, particulars are given for a series of years in respect to the individual whaling grounds in each area outside the Antarctic. It will appear from these tables that on most of the grounds there were only small variations in the catch from 1952 to 1953.

From table *j* will be seen that on the whaling grounds in the *North Atlantic and Arctic* the total catch in each of the seasons 1948-1951 was between 1,575 and 1,751 whales. In 1952 and 1953, however, only 780 and 924 whales were killed. This decrease is mainly due to the limited activity on the grounds off Newfoundland in both years.

On the *coast of Africa* the whaling results have also decreased during the last seasons. In 1951 the total number of whales killed amounted to 4,639, but in 1952 it was reduced to 2,945, and in 1953 to 1,708 (see table *o*, page 23). This decrease was primarily caused by the reduced catch on the Congo ground and on the Natal ground. From Cape Province a not insignificant increase was reported in 1952. Great interest attaches to the Congo ground, where operations are mainly concentrated on the humpback catch. Here whaling was resumed in 1949, and already the following year a maximum was reached with 1,404 humpbacks killed by 7 catchers. In 1951, when 14 catchers were employed, only 1,105 humpbacks were killed, and in 1952 265 humpbacks were caught by 7 catchers. In other words the average number of humpbacks killed per catcher was 170 in 1949, 201 in 1950, 79 in 1951 and 38 in 1952. In 1953 no whaling was carried on from the Congo ground. Whaling results from earlier periods of operation on this ground reveal the same trend as reflected in the data recorded for the latest years, i.e. profitable activity may be carried on for a few years only. The stock will then be decimated to such an extent that the ground will need a period of rest before operations can be resumed.

In 1953 whaling off the coast of *Kamtchatka* was carried on — as in 1952 — with 2 floating factories and 9 catchers. The number of whales killed increased from 1,325 animals in 1952 to 1,762 in 1953. In these waters a not insignificant number of blue-whales has been killed during the last two seasons, in 1953 102 against 62 in 1952.

Off the *coasts of Australia and New Zealand* whaling operations in 1953 were maintained from the same shore stations and with about the same

number of catchers as in 1952. A total of 2,000 humpbacks or 222 humpbacks per catcher were killed on the Australian grounds in 1953, as against 1,787 humpbacks or 179 per catcher in the previous season. This higher catch is, however, due to the fact that the Australian shore stations had been allowed a larger quota during the last season.

In the annexed table *y*, page 28, is given a survey for the latest seasons recording the production of *by*-products on all whaling grounds — in the Antarctic as well as on the different grounds outside the Antarctic.

Attention is further drawn to the general tables no. 1-9 for the season 1953, pages 31-72.

Annex.
Supplementary Tables to the Introduction.

Table a.—Whaling material in operation in the years 1937/38—1952/53.

Years. ¹⁾	All whaling grounds.			Antarctic.			Others.		
	Shore stations.	Floating factories.	Catchers.	Shore stations.	Floating factories.	Catchers.	Shore stations.	Floating factories.	Catchers.
1937-38	37	35	357	2	31	256	35	4	101
1938-39	16	37	359	2	34	281	14	3	78
1939-40	9	29	306	2	28	240	7	1	66
1940-41	8	14	175	1	11	93	7	3	82
1941-42	8	2	52	2	—	12	6	2	40
1942-43	8	2	51	1	—	6	7	2	45
1943-44	9	1	63	1	1	15	8	—	48
1944-45	9	1	63	1	1	15	8	—	48
1945-46	38	11	155	3	9	93	35	2	62
1946-47	39	20	243	3	15	147	36	5	96
1947-48	51	21	309	3	17	183	48	4	126
1948-49	49	22	348	3	18	212	46	4	136
1949-50	49	22	382	3	18	237	46	4	145
1950-51	53	26	470	3	19	260	50	7	210
1951-52	50	24	432	3	20	289	47	4	143
1952-53	50	18	375	3	16	251	47	2	124

¹⁾ 1937-38 = Antarctic season 1937-38 and summer 1938, a.s.o.

Table b.—Whales killed in the years 1937/38—1952/53, by species.

Years. ¹⁾	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.	Total of whales.
1937-38	15,035	29,680	5,125	929	3,763	370	54,902
1938-39	14,152	22,622	1,393	815	5,511	1,290	45,783
1939-40	11,560	19,722	454	538	4,671	764	37,709
1940-41	5,028	9,150	2,939	807	5,641	73	23,638
1941-42	81	2,169	306	373	4,957	128	8,014
1942-43	151	1,809	288	506	5,503	115	8,372
1943-44	353	2,204	282	989	2,614	3	6,445
1944-45	1,111	2,617	303	218	1,669	1	5,919
1945-46	3,675	10,984	495	747	3,461	22	19,384
1946-47	9,302	16,495	290	1,131	7,546	56	34,820
1947-48	7,157	24,028	515	1,573	9,850	308	43,431
1948-49	7,781	21,763	3,395	1,855	9,016	192	44,002
1949-50	6,313	22,902	5,063	2,471	8,186	125	45,060
1950-51	7,278	22,819	4,352	3,033	18,264	49	55,795
1951-52	5,436	25,605	4,023	3,123	11,557	88	49,832
1952-53	4,208	25,553	3,322	2,172	8,317	97	43,669

¹⁾ 1937-38 = Antarctic season 1937/38 and summer 1938, a.s.o.

Table c.—Whales killed in the various main areas 1937/38—1952/53.

Years. *	All areas.		Antarctic.		North Atlantic and Arctic. ¹⁾		Africa.		Pacific, north. ²⁾		Japan.		Others.	
	No. of whales killed.	Per cent.	No. of whales killed.	Per cent.	No. of whales killed.	Per cent.	No. of whales killed.	Per cent.	No. of whales killed.	Per cent.	No. of whales killed.	Per cent.	No. of whales killed.	Per cent.
1937-38	54,902	100	46,039	83.9	750	1.4	3,044	5.5	483	0.9	1,970	3.6	2,616	4.7
1938-39	45,783	100	38,356	83.8	802	1.7	2,687	5.9	232	0.5	2,280	5.0	1,426	3.1
1939-40	37,709	100	32,900	87.3	78	0.2	1,035	2.7	922	2.4	2,035	5.4	739	2.0
1942-43	8,372	100	998	11.9	315	3.8	724	8.7	120	1.4	1,491	17.8	4,724	56.4
1943-44	6,445	100	1,799	27.9	411	6.4	819	12.7	5	0.1	2,169	33.6	1,242	19.3
1944-45	5,919	100	2,891	48.8	585	9.9	729	12.3	—	—	531	9.0	1,183	20.0
1945-46	19,384	100	13,387	69.1	1,145	5.9	984	5.1	113	0.6	1,750	9.0	2,005	10.3
1946-47	34,820	100	25,593	73.5	1,063	3.1	1,406	4.0	402	1.2	1,642	4.7	4,714	13.5
1947-48	43,431	100	31,318	72.1	1,693	3.9	2,308	5.3	492	1.1	1,590	3.7	6,030	13.9
1948-49	44,002	100	31,435	71.4	1,575	3.6	4,966	11.3	509	1.2	1,483	3.4	4,034	9.1
1949-50	45,060	100	32,396	71.9	1,698	3.8	4,122	9.1	620	1.4	1,701	3.8	4,523	10.0
1950-51	55,795	100	33,997	61.0	1,751	3.1	4,639	8.3	817	1.5	1,962	3.5	12,629	22.6
1951-52	49,832	100	35,237	70.7	780	1.6	2,945	5.9	895	1.8	1,998	4.0	7,977	16.0
1952-53	43,669	100	30,653	70.2	924	2.1	1,708	3.9	539	1.2	2,048	4.7	7,797	17.9

¹⁾ Exclusive Spain, Portugal, Azores, and Madeira. ²⁾ Exclusive Japan, Korea, Kamtchatka, and Kuril Islands.

* Figures for 1940-41 and 1941-42 are omitted. Total number of whales killed 23,638 and 8,014, respectively.

Table d.—Oil production in the years 1937/38—1952/53.

Years. *	All whaling grounds.		Principal grounds.					
			Antarctic.		North Atlantic and Arctic. ¹⁾		Africa.	
	Total oil output.	Oil output per catcher.	Oil output.	Oil output per catcher.	Oil output.	Oil output per catcher.	Oil output.	Oil output per catcher.
	Barrels. ²⁾	Barrels.	Barrels.	Barrels.	Barrels.	Barrels.	Barrels.	Barrels.
1937-38	3,641,314	10,200	3,340,330	13,048	22,097	1,004	139,102	6,323
1938-39	3,011,813	8,389	2,820,771	10,038	26,066	1,241	106,793	5,085
1939-40	2,668,756	8,721	2,544,253	10,601	2,950	2,950	40,419	3,674
1942-43	212,307	4,163	50,960	8,493	5,564	2,782	27,373	5,475
1943-44	224,207	3,559	132,001	8,800	8,963	2,241	29,380	5,876
1944-45	304,318	4,830	223,540	14,903	14,121	1,569	23,189	4,638
1945-46	948,715	6,121	818,652	8,803	39,472	2,077	30,552	3,819
1946-47	2,186,749	8,999	1,939,742	13,196	35,757	1,703	47,677	2,649
1947-48	2,437,629	7,889	2,104,051	11,498	61,016	2,034	64,308	2,680
1948-49	2,596,131	7,460	2,219,621	10,470	58,840	1,961	185,003	4,512
1949-50	2,548,230	6,671	2,166,489	9,141	63,612	1,988	154,134	3,585
1950-51	2,957,872	6,293	2,303,690	8,860	63,975	1,882	154,736	3,439
1951-52	2,908,850	6,733	2,479,180	8,578	27,427	1,371	93,342	2,667
1952-53	2,522,652	6,727	2,118,097	8,439	29,911	1,300	53,831	2,447
1937-38	Per cent	100.0	Per cent	91.8	Per cent	0.6	Per cent	3.8
1938-39		100.0		93.7		0.9		3.5
1939-40		100.0		95.3		0.1		1.5
1942-43		100.0		24.0		2.6		2.9
1943-44		100.0		58.9		4.0		13.1
1944-45		100.0		73.5		4.6		17.6
1945-46		100.0		86.3		3.9		3.2
1946-47		100.0		88.7		1.6		2.2
1947-48		100.0		86.3		2.5		2.6
1948-49		100.0		85.5		2.3		7.1
1949-50		100.0		85.0		2.5		6.0
1950-51		100.0		77.9		2.2		5.2
1951-52		100.0		85.2		0.9		3.2
1952-53		100.0		84.0		1.2		2.1

¹⁾ Exclusive Spain, Portugal, Azores, and Madeira. ²⁾ Barrel = 170 kg. (Barrel = abt. 1/4 long ton, 1 long ton = 1,016 kg.)

* Figures for 1940-41 and 1941-42 are omitted. Total oil output 1,268,081 and 213,948 barrels, respectively.

Table e.—Sperm-oil production in the years 1938/39—1952/53.¹⁾

Grounds.	²⁾ 1938-39	1946-47	1947-48	1948-49	1949-50	1950-51	1951-52	1952-53
	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels
South Georgia	6,971	5,987	5,816	9,175	7,902	9,944	6,417	6,640
Antarctic, pelagic	144,775	66,054	131,093	202,560	130,400	242,858	279,952	113,887
Africa:—								
Natal	16,083	14,272	20,391	20,009	13,991	25,744	13,238	12,371
Cape Province	—	1,485	2,999	4,380	3,300	4,184	8,715	6,794
Madagascar	1,291	—	—	—	400	—	—	—
French Congo ³⁾	—	—	—	—	—	2,580	—	—
Indian Ocean	—	—	—	—	1,000	—	—	—
Spanish Morocco	—	—	1,335	1,102	1,236	1,177	434	216
Brazil:—								
Paraiba	—	—	—	—	—	—	20	45
North Atlantic and Arctic:								
Azores	6,920	12,974	15,488	9,991	9,949	16,199	16,167	12,661
Madeira	—	2,585	4,096	1,989	387	3,594	3,971	3,079
Spain	—	—	—	—	52	627	1,844	895
Portugal	—	1,080	903	597	143	209	—	—
Norway	737	841	2,766	1,043	3,846	3,734	2,537	2,343
Scotland	—	—	—	—	—	40	—	—
Faroe Islands	558	621	1,595	2,030	1,981	2,856	46	1,916
Iceland	183	—	864	1,425	485	647	94	2,630
West Greenland	—	—	—	88	108	⁴⁾ 130 ⁴⁾	161	112
Newfoundland	840	1,212	757	3,377	1,758	799	—	—
Pacific North:—								
California	—	140	1,221	920	—	979	—	—
British Columbia	—	—	1,170	2,312	1,468	5,108	4,577	9,829
Alaska	2,655	—	—	—	—	—	—	—
Pelagic whaling	—	—	—	—	—	—	—	—
Kamtschatka	7,904	—	23,975	30,651	24,706	29,919	26,305	35,316
Kurul Islands	—	—	9,817	24,042	34,353	36,700	39,722	34,525
Japan	10,961	4,862	11,054	10,060	22,512	23,146	20,804	23,722
Bonin Island, pelagic	—	736	607	724	2,003	1,968	541	—
Peru	—	105,986	88,205	—	—	195,956	725	—
Chile	5,928	21,160	17,533	18,243	22,575	21,115	20,925	16,510
Total ¹⁾	205,806	239,995	341,685	344,718	284,555	630,213	447,195	283,491

¹⁾ During the years 1939/40—1945/46, for which figures are omitted in this table, the total sperm-oil production was as follows: In 1939-40 167,509 barrels, 1940-41 156,918 barrels, 1941-42 106,693 barrels, 1942-43 122,660 barrels, 1943-44 60,357 barrels, 1944-45 46,682 barrels, and in 1945-46 78,957 barrels.

²⁾ 1938-39 = Antarctic season 1938-39 and summer 1939, a.s.o. ³⁾ Incl. St. Thome. ⁴⁾ Calculated.

Table f.—Whaling results for the various countries 1937/38—1952/53. All areas.

Number of whales killed.

Years. *	All countries	Argentina.	Brazil.	British Commonwealth. ¹⁾	Chile.	Denmark.	Germany.	Iceland.	Japan.	Netherlands.	Norway.	Panama.	Portugal.	United States of America	U.S.S.R.
<i>Absolute figures:</i>															
1937-38.....	54,902	1,062	—	19,542	338	208	5,839	147	7,552	—	²⁾ 15,355	1,527	417	2,650	265
1938-39.....	45,783	1,024	—	14,104	469	178	5,066	130	9,820	—	²⁾ 11,871	907	400	1,338	476
1939-40.....	37,709	705	—	13,207	78	—	—	—	9,698	—	11,040	1,421	552	1,008	—
1943-44.....	6,445	962	—	1,171	430	—	—	—	2,169	—	984	—	724	5	—
1944-45.....	5,919	1,296	—	1,229	495	—	—	—	531	—	1,787	—	581	—	—
1945-46.....	19,384	1,082	—	6,682	598	175	—	—	1,863	—	7,687	—	831	—	466
1946-47.....	34,820	857	25	14,736	851	284	—	—	3,181	770	12,857	—	835	38	386
1947-48.....	³⁾ 43,431	814	36	17,150	1,116	302	—	239	3,157	1,294	16,104	—	1,001	67	2,104
1948-49.....	³⁾ 44,002	919	38	14,811	991	335	—	324	3,331	1,366	16,570	1,356	656	49	3,122
1949-50.....	³⁾ 45,060	946	128	12,782	1,093	478	—	265	4,121	1,295	17,234	—	448	—	3,931
1950-51.....	³⁾ 55,795	796	179	13,921	1,094	387	—	339	5,043	1,660	18,024	4,021	1,641	40	4,274
1951-52.....	³⁾ 49,832	798	168	14,277	1,374	44	—	265	6,578	1,650	16,102	1,408	784	—	5,579
1952-53.....	³⁾ 43,669	678	175	13,772	1,198	190	—	332	5,394	1,575	11,620	2,365	637	—	5,605
<i>Percentage figures:</i>															
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
1937-38.....	100.0	1.9	—	35.6	0.6	0.4	10.6	0.3	13.8	—	28.0	2.8	0.7	4.8	0.5
1938-39.....	100.0	2.2	—	30.8	1.0	0.4	11.1	0.3	21.5	—	25.9	2.0	0.9	2.9	1.0
1939-40.....	100.0	1.9	—	35.0	0.2	—	—	—	25.7	—	29.3	3.8	1.4	2.7	—
1943-44.....	100.0	14.9	—	18.2	6.7	—	—	—	33.7	—	15.3	—	11.1	0.1	—
1944-45.....	100.0	21.9	—	20.8	8.3	—	—	—	9.0	—	30.3	—	9.7	—	—
1945-46.....	100.0	5.6	—	34.6	3.1	0.9	—	—	9.6	—	39.7	—	4.2	—	2.3
1946-47.....	100.0	2.5	0.1	42.4	2.4	0.8	—	—	9.1	2.2	36.9	—	2.4	0.1	1.1
1947-48.....	³⁾ 100.0	1.9	0.1	39.5	2.6	0.7	—	0.6	7.3	3.0	37.1	—	2.2	0.1	4.8
1948-49.....	³⁾ 100.0	2.1	0.1	33.7	2.2	0.8	—	0.7	7.6	3.1	37.7	3.1	1.4	0.1	7.1
1949-50.....	³⁾ 100.0	2.1	0.3	28.4	2.4	1.1	—	0.6	9.1	2.9	38.2	—	1.0	—	8.7
1950-51.....	³⁾ 100.0	1.4	0.3	25.0	2.0	0.7	—	0.6	9.0	3.0	32.3	7.2	2.9	0.1	7.7
1951-52.....	³⁾ 100.0	1.6	0.3	28.7	2.8	0.1	—	0.5	13.2	3.3	32.3	2.8	1.6	—	11.2
1952-53.....	³⁾ 100.0	1.6	0.4	31.5	2.7	0.4	—	0.8	12.4	3.6	26.6	5.4	1.5	—	12.8

¹⁾ Specification for countries of the British Commonwealth is given on the second following page. 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⁾ In the total figures for the seasons 1947/48—1952/53 the whaling results for the following countries are included: For France in 1949/50—2,193 whales = 4.9 per cent of all whales killed, in 1950/51—4,079 whales = 7.3 per cent and in 1951/52—436 whales = 0.9 per cent; for Peru in 1950/51—61 whales = 0.1 per cent and in 1951/52—95 whales = 0.2 per cent; for Spain in 1947/48—47 whales = 0.1 per cent, in 1948/49—134 whales = 0.3 per cent, in 1949/50—146 whales = 0.3 per cent, in 1950/51—236 whales = 0.4 per cent, in 1951-52—274 whales = 0.5 per cent, and in 1952/53—128 whales = 0.3 per cent.

* Figures for the years 1940/41-1942/43 are omitted. Total number of whales killed, in 1940-41 23,638, in 1941-42 8,014, in 1942-43 8,372.

Table g.—Whaling results for the various countries 1937/38—1952/53. All areas.
Oil production in barrels.¹⁾

Years.*	All countries.	Argentina.	Brazil.	British Commonwealth. ²⁾	Chile.	Denmark.	Germany.	Iceland.	Japan.	Netherlands.	Norway.	Panama.	Portugal.	United States of America	U.S.S.R.
<i>Absolute figures:</i>															
1937-38	3,641,314	51,766	—	1,308,015	9,345	6,101	369,727	4,920	422,036	— ³⁾	1,169,069	117,650	7,284	166,299	9,102
1938-39	3,011,813	66,826	—	1,007,223	7,512	5,197	374,149	3,764	496,260	— ³⁾	853,867	68,853	6,920	102,388	18,854
1939-40	2,668,756	39,432	—	938,147	2,234	—	—	—	593,499	—	909,790	113,000	10,047	62,607	—
1943-44	224,207	50,001	—	40,973	15,830	—	—	—	25,182	—	82,000	—	10,073	148	—
1944-45	304,318	75,540	—	40,401	21,066	—	—	—	6,082	—	149,391	—	11,838	—	—
1945-46	948,715	45,028	—	307,048	17,861	3,981	—	—	5,837	—	536,803	—	16,016	—	16,141
1946-47	2,186,749	47,830	835	901,597	25,036	6,286	—	—	80,244	77,310	991,709	—	19,537	1,365	35,000
1947-48	2,437,629	44,965	1,060	949,235	28,522	10,277	—	9,000	120,716	85,130	1,064,313	—	23,103	2,350	98,002
1948-49	2,596,131	52,518	1,251	927,729	23,382	10,026	—	11,820	134,408	109,849	1,119,514	56,720	12,859	1,493	132,553
1949-50	2,548,230	41,348	2,132	767,896	30,231	13,776	—	12,292	197,613	82,792	1,122,466	—	11,100	—	165,442
1950-51	2,957,872	40,593	2,925	826,162	30,993	9,303	—	14,012	203,489	103,560	1,150,728	198,532	41,346	1,358	182,606
1951-52	2,908,850	41,825	2,171	877,427	35,406	817	—	9,524	304,499	110,300	1,151,404	97,073	20,275	—	233,916
1952-53	2,522,652	32,187	2,837	822,456	30,169	4,834	—	10,124	267,820	103,710	826,243	164,150	15,814	—	239,348
<i>Per cent figures:</i>															
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
1937-38	100.0	1.4	—	35.9	0.3	0.2	10.2	0.1	11.6	—	32.1	3.2	0.2	4.6	0.2
1938-39	100.0	2.2	—	33.5	0.2	0.2	12.4	0.1	16.5	—	28.4	2.3	0.2	3.4	0.6
1939-40	100.0	1.5	—	35.2	0.1	—	—	—	22.2	—	34.1	4.2	0.4	2.3	—
1943-44	100.0	22.3	—	18.3	7.0	—	—	—	11.2	—	36.6	—	4.5	0.1	—
1944-45	100.0	24.8	—	13.3	6.9	—	—	—	2.0	—	49.1	—	3.9	—	—
1945-46	100.0	4.7	—	32.4	1.9	0.4	—	—	0.6	—	56.6	—	1.7	—	1.7
1946-47	100.0	2.2	—	41.2	1.1	0.3	—	—	3.7	3.5	45.4	—	0.9	0.1	1.6
1947-48	⁴⁾ 100.0	1.8	—	38.9	1.2	0.4	—	0.4	5.0	3.5	43.7	—	1.0	0.1	4.0
1948-49	⁴⁾ 100.0	2.0	—	35.7	0.9	0.4	—	0.5	5.2	4.2	43.1	2.2	0.5	0.1	5.1
1949-50	⁴⁾ 100.0	1.6	0.1	30.1	1.2	0.5	—	0.5	7.8	3.2	44.1	—	0.4	—	6.5
1950-51	⁴⁾ 100.0	1.3	0.1	27.9	1.0	0.3	—	0.5	6.9	3.5	38.9	6.7	1.4	0.1	6.2
1951-52	⁴⁾ 100.0	1.4	0.1	30.2	1.2	—	—	0.3	10.5	3.8	39.6	3.3	0.7	—	8.0
1952-53	⁴⁾ 100.0	1.3	0.1	32.6	1.2	0.2	—	0.4	10.6	4.1	32.8	6.5	0.6	—	9.5

¹⁾ Barrel = 170 kg. (Barrel = abt. $\frac{1}{2}$ long ton, 1 long ton = 1,016 kg). ²⁾ Specification for countries of the British Commonwealth is given on next page. ³⁾ The figures include the catch of two Norwegian expeditions hired by Germany—in 1937/38 180,750 barrels, and in 1938/39 118,383 barrels. ⁴⁾ In the total figures for the seasons 1947/48—1952/53 the whaling results for the following countries are included: For *France* in 1949/50—98,660 barrels of oil = 3.9 per cent of the total oil production, in 1950/51—145,721 barrels = 4.9 per cent, and in 1951/52—16,485 barrels = 0.6 per cent; for *Peru* in 1950/51—2,015 barrels = 0.1 per cent and in 1951/52—1,941 barrels = 0.1 per cent; for *Spain* in 1947/48—956 barrels = 0 per cent, in 1948/49—2,009 barrels = 0.1 per cent, in 1949/50—2,482 barrels = 0.1 per cent, in 1950/51—4,529 barrels = 0.2 per cent, in 1951/52—5,787 barrels = 0.2 per cent, and in 1952-53—2,960 barrels = 0.1 per cent.

* Figures for the years 1940/41-1942/43 are omitted. Total oil production in 1940-41 1,268,081 barrels, in 1941-42 213,948 barrels, in 1942-43 212,307 barrels.

Table h.—Whaling results for countries of the British Commonwealth.
Number of whales killed.

Years*	British Commonwealth	Of which					
		United Kingdom	Union of South Africa	Newfoundland	Canada	New Zealand	Australia
1938-39.....	14,104	9,625	4,398	-	-	81	-
1939-40.....	13,207	9,953	2,925	-	220	109	-
1943-44.....	1,171	199	819	65	-	88	-
1944-45.....	1,229	216	729	177	-	107	-
1945-46.....	6,682	5,409	984	179	-	110	-
1946-47.....	14,736	10,494	3,972	157	-	111	2
1947-48.....	17,150	11,410	5,115	347	182	92	4
1948-49.....	14,811	9,280	4,749	193	255	141	193
1949-50.....	12,782	8,151	3,695	155	314	79	388
1950-51.....	13,921	6,626	5,314	209	437	111	1,224
1951-52.....	14,277	6,938	4,946	19	465	122	1,787
1952-53.....	13,772	6,964	4,137	22	539	109	2,001
<i>In per cent of all countries</i>	%	%	%	%	%	%	%
1938-39.....	30.8	21.0	9.6	-	-	0.2	-
1939-40.....	35.0	26.4	7.7	-	0.6	0.3	-
1943-44.....	18.2	3.1	12.6	1.1	-	1.4	-
1944-45.....	20.8	3.7	12.3	3.0	-	1.8	-
1945-46.....	34.6	28.0	5.1	0.9	-	0.6	-
1946-47.....	42.4	30.2	11.4	0.5	-	0.3	-
1947-48.....	39.5	26.3	11.8	0.8	0.4	0.2	-
1948-49.....	33.7	21.2	10.8	0.4	0.6	0.3	0.4
1949-50.....	28.4	18.1	8.2	0.3	0.7	0.2	0.9
1950-51.....	25.0	11.9	9.5	0.4	0.8	0.2	2.2
1951-52.....	28.7	14.0	9.9	-	0.9	0.3	3.6
1952-53.....	31.5	15.9	9.5	-	1.2	0.3	4.6

Oil production in barrels.¹⁾

1938-39.....	1,007,223	796,796	207,738	-	-	2,689	-
1939-40.....	938,147	766,209	159,329	-	8,700	3,909	-
1943-44.....	40,973	7,200	29,380	1,763	-	2,630	-
1944-45.....	40,401	7,478	23,189	5,252	-	4,482	-
1945-46.....	307,048	265,112	30,552	7,200	-	4,184	-
1946-47.....	901,597	638,576	252,556	6,600	-	3,825	40
1947-48.....	949,235	685,650	242,187	11,790	5,679	3,864	65
1948-49.....	927,729	673,387	226,419	8,506	7,841	5,838	5,738
1949-50.....	767,896	534,629	198,978	5,353	9,598	2,844	16,494
1950-51.....	826,162	490,199	250,946	10,012	14,433	4,482	56,090
1951-52.....	877,427	500,254	261,998	2,325	16,220	4,800	91,830
1952-53.....	822,456	491,012	203,749	2,689	18,255	4,560	102,191
<i>In per cent of all countries</i>	%	%	%	%	%	%	%
1938-39.....	33.5	26.5	6.9	-	-	0.1	-
1939-40.....	35.2	28.7	6.0	-	0.3	0.2	-
1943-44.....	18.3	3.2	13.1	0.8	-	1.2	-
1944-45.....	13.3	2.5	7.6	1.7	-	1.5	-
1945-46.....	32.4	28.0	3.2	0.8	-	0.4	-
1946-47.....	41.2	29.2	11.5	0.3	-	0.2	-
1947-48.....	38.9	28.1	9.9	0.5	0.2	0.2	-
1948-49.....	35.7	26.0	8.7	0.3	0.3	0.2	0.2
1949-50.....	30.1	21.0	7.8	0.2	0.4	0.1	0.6
1950-51.....	27.9	16.6	8.5	0.3	0.5	0.1	1.9
1951-52.....	30.2	17.2	9.0	0.1	0.5	0.2	3.2
1952-53.....	32.6	19.5	8.1	0.1	0.7	0.2	4.0

¹⁾ Barrel = 170 kg. (Barrel = abt. 1/4 long ton, 1 long ton = 1,016 kg.)

* Figures for the years 1940/41-1942/43 are omitted. Total number of whales killed in 1940-41 4,361, in 1941-42 1,162, and in 1942-43 1,057; total oil production 274,987 barrels, 47,745 barrels, and 39,932 barrels, respectively.

Table i.—Average size of whales killed in the different grounds in the years 1938, 1939, and 1948 to 1953.

Species of whales and whaling grounds.	1953	1952	1951	1950	1949	1948	1939	1938
	Engl. ft.	Engl. ft.	Engl. ft.	Engl. ft.	Engl. ft.	Engl. ft.	Engl. ft.	Engl. ft.
Blue-whales.								
Antarctic:—								
South Georgia	74.00	72.00	76.90	74.29	76.29	76.28	75.81	70.89
Pelagic whaling	77.53	78.03	78.28	79.03	79.06	78.42	78.11	78.42
Africa:—								
Natal	70.40	69.13	69.70	68.89	70.29	67.50	—	67.00
Cape Province	66.25	73.00	76.00	69.25	68.00	67.00	—	—
Madagascar	—	—	—	75.00	60.00	—	—	—
Spanish Morocco	—	—	—	—	—	72.00	—	—
Brazil:—								
Paraiba	—	—	—	—	—	70.00	—	—
North Atlantic and Arctic:								
Portugal	—	—	59.00	—	—	—	—	—
Norway	67.29	73.00	69.25	68.67	71.75	73.00	—	—
Scotland	—	—	75.25	71.50	—	—	—	—
Faroe Islands	70.00	—	68.11	69.33	74.21	64.67	—	68.00
Iceland	66.80	71.14	68.91	72.36	67.50	—	—	—
West Greenland	75.00	—	—	—	74.00	77.50	—	—
Newfoundland	—	—	72.88	71.00	73.47	74.93	—	—
Pacific North:—								
British Columbia	69.88	72.31	71.78	72.50	77.50	—	—	—
Kamtchatka	75.84	76.95	74.14	77.40	76.33	—	—	—
Kurul Islands	73.80	74.18	69.22	74.50	—	—	—	—
Japan	70.36	71.48	70.85	73.86	70.79	71.67	—	—
Bonin Island	—	—	—	—	—	62.00	—	—
Peru	—	—	—	—	—	68.00	—	—
Chile	74.11	58.00	74.03	74.27	74.50	74.20	—	—
Fin-whales.								
Antarctic:—								
South Georgia	65.43	65.97	65.98	65.23	65.56	65.76	65.37	64.52
Pelagic whaling	67.27	67.86	66.71	67.46	67.93	67.94	67.21	67.86
Africa:—								
Natal	60.62	62.25	60.50	61.08	61.36	60.54	—	60.14
Cape Province	60.05	60.33	59.84	58.82	59.52	57.17	—	—
Madagascar	—	—	—	66.70	—	—	—	—
French Congo ¹⁾	—	—	60.25	—	—	—	—	—
Spanish Morocco	61.22	61.92	62.25	61.34	—	60.07	—	—
North Atlantic and Arctic:								
Spain	58.72	—	—	61.58	—	—	—	—
Portugal	—	—	54.33	62.32	—	—	—	—
Norway	59.48	58.62	60.08	59.45	60.08	59.28	—	—
Scotland	—	—	59.17	63.52	—	—	—	—
Faroe Islands	59.90	56.67	61.40	60.53	60.43	60.62	60.62	62.08
Iceland	57.30	58.53	59.99	60.13	61.78	—	—	—
West Greenland	60.73	58.56	61.27	59.03	58.05	60.24	—	—
Newfoundland	57.00	63.00	58.61	59.33	59.89	60.18	—	—
Pacific North:—								
California	—	—	63.00	—	63.90	61.68	—	—
British Columbia	58.57	57.65	58.06	57.89	59.66	58.03	—	—
Kamtchatka	61.56	61.34	61.30	59.78	61.08	—	—	—
Kurul Islands	60.66	60.16	61.11	62.43	60.06	—	—	—
Japan	56.91	57.66	56.52	57.81	56.83	57.18	—	—
Bonin Island	—	—	—	—	—	56.67	—	—
Peru	—	—	58.00	—	—	55.50	—	—
Chile	55.87	56.25	57.27	56.19	56.38	57.34	—	—
Australia	63.00	—	—	—	—	—	—	—

¹⁾ Incl. St. Thomé.

Table i (cont.).

Species of whales and whaling grounds,	1953	1952	1951	1950	1949	1948	1939	1938
	Engl. ft.	Engl. ft.	Engl. ft.	Engl. ft.	Engl. ft.	Engl. ft.	Engl. ft.	Engl. ft.
Humpbacks.								
Antarctic:—								
South Georgia	40.11	39.80	40.13	40.04	40.17	41.42	—	41.53
Pelagic whaling	40.94	40.42	40.79	40.63	41.85	46.00	39.64	41.07
Africa:—								
Natal	37.82	38.32	37.62	38.07	37.89	38.79	—	36.41
Cape Province	41.00	40.33	36.78	43.29	44.00	44.86	—	—
Madagascar	—	—	—	40.45	40.39	—	—	—
French Congo ¹⁾	—	39.88	41.26	41.01	43.22	—	—	—
Brazil:—								
Paraiba	39.50	41.56	44.43	—	—	41.33	—	—
Santa Catarina	—	39.00	—	—	—	—	—	—
North Atlantic and Arctic:								
Norway	43.75	39.50	42.00	39.38	43.00	—	—	—
Faroe Islands	39.00	—	—	44.00	49.00	—	—	—
Iceland	38.50	—	44.00	—	42.50	—	—	—
West Greenland	37.00	—	46.00	43.67	42.50	40.00	—	—
Newfoundland	—	39.00	38.66	39.81	42.00	43.13	—	—
Pacific North:—								
California	—	—	43.00	—	42.55	43.00	—	—
British Columbia	39.26	40.41	39.00	39.55	39.75	39.48	—	—
Kamtchatka	41.02	40.49	35.00	38.00	—	—	—	—
Kuril Islands	42.83	39.89	45.88	—	43.29	—	—	—
Japan	41.13	37.67	40.00	41.40	—	41.00	—	—
Bonin Island	—	43.00	—	44.33	40.50	43.67	—	—
Peru	—	—	40.00	—	—	—	—	—
Chile	44.00	45.00	47.00	44.80	46.00	41.50	—	—
Australia	40.01	40.35	40.31	40.47	40.68	37.00	—	—
New Zealand	41.32	40.33	40.52	40.86	40.88	—	—	—
Sei-whales.								
Antarctic:—								
South Georgia	50.11	50.49	50.31	50.01	49.93	49.86	50.89	49.94
Pelagic whaling	51.62	51.00	49.82	51.13	50.69	52.75	51.67	51.00
Africa:—								
Natal	43.21	43.14	44.02	44.40	42.59	43.05	—	—
Cape Province	44.42	45.22	46.94	46.33	45.93	44.76	—	—
Madagascar	—	—	—	42.33	—	—	—	—
French Congo ¹⁾	—	43.89	44.97	—	—	—	—	—
Spanish Morocco	50.22	49.83	45.85	50.50	—	—	—	—
Brazil:—								
Paraiba	49.69	45.01	49.91	—	—	47.90	—	—
Santa Catarina	—	39.25	—	—	—	—	—	—
North Atlantic and Arctic:								
Spain	41.33	—	—	50.63	—	—	—	—
Norway	40.63	43.50	43.45	45.00	44.67	44.60	—	—
Scotland	—	—	47.67	—	—	—	—	—
Faroe Islands	40.78	35.00	45.13	45.00	43.86	44.00	—	—
Iceland	43.49	44.20	46.00	—	43.83	—	—	—
West Greenland	—	—	—	—	—	47.00	—	—
Newfoundland	—	—	44.31	48.44	46.78	45.75	—	—
Pacific North:—								
California	—	—	—	—	—	—	—	—
British Columbia	46.29	44.91	45.40	44.83	41.33	46.50	—	—
Kamtchatka	47.75	46.70	49.94	49.57	45.33	—	—	—
Kuril Islands	46.11	45.45	48.00	49.51	45.68	—	—	—
Japan	43.10	43.35	43.23	43.52	42.31	42.94	—	—
Bonin Island	—	41.89	42.00	42.19	41.97	42.31	—	—
Chile	44.63	—	37.00	—	—	47.00	—	—
New Zealand	—	47.00	—	—	—	—	—	—

¹⁾ Incl. St. Thomé.

Table i (cont.).

Species of whales and whaling grounds.	1953	1952	1951	1950	1949	1948	1939	1938
	Engl. ft.	Engl. ft.	Engl. ft.	Engl. ft.	Engl. ft.	Engl. ft.	Engl. ft.	Engl. ft.
<u>Sperm-whales.</u>								
Antarctic:—								
South Georgia	46.72	48.12	46.88	48.60	46.01	46.74	50.33	50.53
Pelagic whaling	49.90	49.93	50.18	50.13	51.08	51.08	52.86	53.27
Africa:—								
Natal	42.72	43.08	39.04	41.43	39.38	38.07	—	42.12
Cape Province	39.19	39.41	39.39	41.16	41.47	42.97	—	—
Madagascar	—	—	—	39.51	35.00	—	—	—
French Congo ¹⁾	—	—	36.24	—	—	—	—	—
Spanish Morocco	35.69	31.18	38.58	43.92	—	37.74	—	—
Brazil:—								
Paraiba	54.00	45.00	—	—	—	—	—	—
North Atlantic and Arctic:								
Spain	38.32	—	—	50.67	—	—	—	—
Portugal	—	—	37.64	34.40	—	—	—	—
Norway	49.73	47.35	49.49	48.42	49.15	50.57	—	—
Scotland	—	—	47.00	—	—	—	—	—
Faroe Islands	46.27	51.00	48.56	48.65	45.49	49.37	51.70	53.15
Iceland	48.98	50.50	50.77	48.73	48.54	—	—	—
West Greenland	48.50	54.60	50.33	50.40	48.33	45.67	—	—
Newfoundland	—	—	51.67	50.62	53.17	48.93	—	—
Pacific North:—								
California	—	—	43.31	—	42.93	45.39	—	—
British Columbia	42.96	42.61	41.16	44.18	42.35	45.29	—	—
Kamchatka	44.20	43.80	43.36	43.07	43.89	—	—	—
Kuril Islands	38.71	38.21	39.37	39.95	41.07	—	—	—
Japan	37.88	38.55	37.93	38.62	39.98	37.21	—	—
Bonin Island	—	45.67	46.03	42.94	42.64	38.31	—	—
Peru	—	—	41.80	—	—	42.61	—	—
Chile	39.98	49.91	42.33	43.10	38.62	37.69	—	—

Table j.—North Atlantic and Arctic.
(Exclusive Azores, Madeira, Spain, and Portugal.)

Grounds.	Years. *	Species of whales caught.							Oil production. Barrels.	Expeditions.			
		Bluc.	Fin.	Hump- back.	Sci.	Sperm.	Others.	Total of whales.		Shore sta- tions.	Floa- ting fac- to- ries.	Catch- ers.	
<i>North Atlantic and Arctic. Total</i>	1937	57	1,330	25	173	289	²⁾ 36	1,910	69,144	9	2	36	
	1938	15	565	2	105	36	¹⁾ 27	750	22,097	7	—	22	
	1939	26	665	9	59	40	³⁾ 3	802	26,066	7	—	21	
	1945	14	504	9	32	26	—	585	14,121	3	—	9	
	1946	36	1,035	10	12	52	—	1,145	39,472	7	—	19	
	1947	32	945	11	20	55	—	1,063	35,757	7	—	21	
	1948	88	1,368	16	60	112	¹⁾ 49	1,693	61,016	10	—	30	
	1949	79	1,259	17	62	157	⁵⁾ 1	1,575	58,840	9	—	30	
	1950	54	1,422	29	21	170	⁵⁾ 2	1,698	63,612	10	—	32	
	1951	52	1,300	40	181	178	—	1,751	63,975	11	—	34	
	1952	15	635	3	51	59	⁸⁾ 17	780	27,427	7	—	20	
	1953	15	585	8	145	148	⁹⁾ 23	924	29,911	8	—	23	
<i>Norway.</i>	1937	9	223	—	55	20	¹⁾ 35	342	9,467	4	—	12	
	1938	4	261	—	94	9	¹⁾ 27	395	11,076	4	—	12	
	1939	4	282	1	46	14	³⁾ 3	350	11,155	3	—	9	
	1945	3	158	—	27	4	—	192	4,391	⁶⁾ 1	—	3	
	1946	17	392	—	11	21	—	441	15,930	3	—	9	
	1947	11	285	—	12	16	—	324	10,871	3	—	9	
	1948	2	260	—	35	47	—	344	11,261	4	—	11	
	1949	4	342	1	6	20	⁵⁾ 1	374	11,487	4	—	12	
	1950	3	342	8	3	79	—	435	15,979	4	—	13	
	1951	4	321	5	11	76	—	417	14,779	4	—	12	
	1952	1	374	2	24	51	—	452	14,761	4	—	11	
	1953	7	275	4	48	44	⁸⁾ 2	380	12,264	4	—	11	
<i>Scotland.</i>	1950	2	33	—	—	—	—	35	1,057	1	—	1	
	1951	4	13	—	3	1	—	21	791	1	—	1	
<i>Faroe Islands.</i>	1937	7	142	4	11	11	—	175	5,365	2	—	5	
	1938	2	184	1	6	7	—	200	6,101	2	—	6	
	1939	2	153	1	8	9	—	173	5,197	2	—	6	
	—	—	—	—	—	—	—	—	—	—	—	—	
	1946	5	94	1	1	14	—	115	3,981	2	—	3	
	1947	3	196	—	2	15	—	216	6,286	2	—	4	
	1948	3	223	—	15	30	—	271	10,277	2	—	5	
	1949	10	222	1	21	53	—	307	9,541	2	—	7	
	1950	6	377	1	2	46	—	432	13,232	2	—	6	
	1951	9	156	—	126	70	—	361	8,953	2	—	6	
	1952	—	20	—	2	1	—	23	522	1	—	2	
	1953	2	87	1	27	52	—	169	4,557	2	—	5	
<i>Iceland.</i>	1937	1	56	1	—	21	—	79	2,862	1	—	2	
	1938	9	113	—	5	20	—	147	4,920	1	—	3	
	1939	13	109	1	3	4	—	130	3,764	1	—	3	
	—	—	—	—	—	—	—	—	—	—	—	—	
	1948	24	195	—	5	15	—	239	9,000	1	—	4	
	1949	33	249	2	12	28	—	324	11,820	1	—	4	
	1950	28	226	—	—	11	—	265	12,292	1	—	4	
	1951	11	312	1	2	13	—	339	14,012	1	—	4	
	1952	14	224	—	25	2	—	265	9,524	1	—	4	
	1953	5	207	2	70	48	—	332	10,124	1	—	4	

¹⁾ Different kinds of small whales. ²⁾ Different kinds of small whales and 1 right-whale. ³⁾ 2 Minke-whales and 1 bottlenose. ⁴⁾ During the war—owing to shortage of food—a number of licenses were issued for whaling on the Norwegian coast. Fishing boats were used as catchers and the whale meat sold for human food. ⁵⁾ Bottlenose. ⁶⁾ Catch result for the shore station and 3 catchers: 3 blue-whales, 27 fin-whales, and 1,391 barrels of whale oil. ⁷⁾ As no information has been available re. oil production of one shore station, it has been calculated on basis of the output of the other shore station. ⁸⁾ Minke-whales. ⁹⁾ 22 Minke-whales and 1 bottlenose.

* Figures for the years 1940-1944 are omitted.

Table j (cont.).

Grounds.	Years.	Species of whales caught.							Oil production.	Expeditions.			
		Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.	Total of whales.		Shore stations.	Floating factories.	Catchers.	
<i>Arctic, pelagic.</i>	1937	28	461	7	100	218	-	814	32,375	-	2	11	
<i>West Greenland.</i>	1937	4	9	4	-	-	-	17	-	-	-	1	
	1938	-	7	1	-	-	-	8	-	-	-	1	
	1939	-	3	2	-	-	-	5	-	-	-	1	
	1946	3	47	4	-	6	-	60	-	-	-	1	
	1947	4	51	5	2	6	-	68	-	-	-	1	
	1948	2	21	1	1	6	-	31	-	-	-	1	
	1949	2	21	2	-	3	-	28	485	-	-	1	
	1950	-	35	4	-	5	¹⁾ 2	46	544	-	-	1	
	1951	-	15	5	-	6	-	26	²⁾ 350	-	-	1	
	1952	-	16	-	-	5	-	21	²⁾ 295	-	-	1	
	1953	1	15	1	-	4	-	21	277	-	-	1	
<i>Newfoundland.</i>	1937	8	439	9	7	19	³⁾ 1	483	19,075	2	-	5	
	1938	-	-	-	-	-	-	-	-	-	-	-	
	1939	7	118	4	2	13	-	144	5,950	1	-	2	
	1945	11	346	9	5	22	-	393	12,730	2	-	6	
	1946	11	502	5	-	11	-	529	19,561	2	-	6	
	1947	14	413	6	4	18	-	455	18,600	2	-	7	
	1948	57	669	15	4	14	⁴⁾ 49	808	30,478	3	-	9	
	1949	30	425	11	23	53	-	542	25,507	2	-	6	
	1950	15	409	16	16	29	-	485	20,508	2	-	7	
	1951	24	483	29	39	12	-	587	25,090	3	-	10	
	1952	-	1	1	-	-	⁵⁾ 17	19	2,325	1	-	2	
	1953	-	1	-	-	-	⁶⁾ 21	22	2,689	1	-	2	

¹⁾ Bottlenoses. ²⁾ Calculated. ³⁾ Right-whale. ⁴⁾ Different kinds of small whales. ⁵⁾ Minke-whales.
⁶⁾ 20 Minke-whales and 1 bottlenose.

Table k.—Azores.

Years	Species of whales caught.							Oil production.	Expeditions. ¹⁾		
	Blue.	Fin.	Hump-back	Sei.	Sperm.	Others.	Total of whales.		Shore stations.	Floating factories.	Catchers.
								Barrels.			
1937	-	-	-	-	417	-	417	-	-	-	-
1938	-	-	-	-	417	-	417	7,284	-	-	-
1939	-	-	-	-	400	-	400	6,920	-	-	-
1940	-	-	-	-	552	-	552	10,047	-	-	-
1941	-	-	-	-	425	-	425	8,358	-	-	-
1942	-	-	-	-	525	-	525	12,562	-	-	-
1943	-	-	-	-	663	-	663	11,681	-	-	-
1944	-	-	-	-	591	-	591	7,103	-	-	-
1945	-	-	-	-	443	-	443	8,465	-	-	-
1946	-	-	-	-	592	-	592	11,917	-	-	-
1947	-	-	-	-	565	-	565	12,974	-	-	-
1948	-	-	-	-	698	-	698	15,488	-	-	-
1949	-	-	-	-	484	-	484	9,991	-	-	-
1950	-	-	-	-	390	-	390	9,949	-	-	-
1951	-	-	-	-	724	-	724	16,199	-	-	-
1952	-	-	-	-	618	-	618	16,167	-	-	-
1953	-	-	-	-	528	-	528	12,661	-	-	-

¹⁾ Several small shore stations. Whaling is carried on with rowing boats, and the whales are towed to shore by gasoline launches.

Table I.—Madeira.

Years	Species of whales caught.							Oil production.	Expeditions. ¹⁾		
	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.	Total of whales.		Shore stations.	Floating factories.	Catchers.
								Barrels.			
1941	—	—	—	—	76	—	76	699	—	—	—
1942	—	—	—	—	23	—	23	508	—	—	—
1943	—	—	—	—	133	—	133	2,199	—	—	—
1944	—	—	—	—	75	—	75	²⁾ 1,500	—	—	—
1945	—	—	—	—	91	—	91	2,250	—	—	—
1946	—	—	—	—	166	—	166	2,565	—	—	—
1947	—	—	—	—	109	—	109	2,585	—	—	—
1948	—	—	—	—	162	—	162	4,096	—	—	—
1949	—	—	—	—	135	—	135	1,989	—	—	—
1950	—	—	—	—	14	—	14	387	—	—	—
1951	—	—	—	—	182	—	182	3,594	—	—	—
1952	—	6	—	—	160	—	166	4,108	—	—	—
1953	—	2	—	—	107	—	109	3,153	—	—	—

¹⁾ Several small shore stations. Whaling is carried on with rowing boats, and the whales are towed to shore by gasoline launches. ²⁾ Calculated.

Table m.—Spain.

Years.	Species of whales caught.							Oil production.	Expeditions.		
	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.	Total of whales.		Shore stations.	Floating factories.	Catchers.
								Barrels.			
1950	—	19	—	8	3	—	30	688	1	—	2
1951	—	27	—	34	35	—	96	1,763	1	—	1
1952	—	74	—	—	94	¹⁾ 49	217	4,966	2	—	6
1953	—	18	—	12	38	¹⁾ 29	97	2,423	2	—	5

¹⁾ Baleen whales. No specification.

Table n.—Portugal.

Years.	Species of whales caught.							Oil production.	Expeditions.		
	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.	Total of whales.		Shore stations.	Floating factories.	Catchers.
								Barrels.			
1944	—	38	—	—	20	—	58	¹⁾ 1,470	1	—	—
1945	—	36	—	—	11	—	47	1,123	1	—	—
1946	—	42	—	—	31	—	73	1,534	1	—	—
1947	—	111	—	—	50	—	161	3,978	1	—	3
1948	—	106	—	—	35	—	141	3,697	1	—	3
1949	—	14	—	—	23	—	37	879	1	—	3
1950	—	34	—	—	10	—	44	764	1	—	3
1951	1	9	—	—	11	²⁾ 1	22	505	1	—	3

¹⁾ Calculated. ²⁾ Minke-whale.

Table o.—Africa.

Grounds.	Years. *	Species of whales caught.							Oil production. Barrels.	Expeditions.			
		Blue.	Fin.	Hump- back.	Sci.	Sperm.	Others.	Total of whales.		Shore sta- tions.	Floa- ting fac- tories.	Catch- ers.	
<i>Africa. Total.</i>	1937	128	1,175	1,789	121	710	²⁾	43	3,966	169,772	3	2	39
	1938	40	538	1,927	66	473	-	3,044	139,102	2	1	22	
	1939	27	502	200	42	676	³⁾	1,240	2,687	106,793	2	1	21
	1945	3	162	116	34	414	-	729	23,189	1	-	5	
	1946	12	145	93	75	659	-	984	30,552	1	-	8	
	1947	19	529	95	158	550	¹⁾	55	1,406	47,677	3	-	18
	1948	21	632	196	196	1,015	¹⁾	248	2,308	64,308	4	-	24
	1949	23	707	2,894	238	965	¹⁾	139	4,966	185,003	5	2	41
	1950	14	604	2,273	438	693	¹⁾	100	4,122	154,134	5	2	43
	1951	24	1,047	1,217	1,006	1,319	-	26	4,639	154,736	6	1	45
1952	19	766	391	1,043	726	-	2,945	93,342	4	1	35		
1953	9	576	98	400	618	¹⁾	7	1,708	53,831	4	-	22	
<i>Natal.</i>	1937	67	755	240	64	503	-	1,629	67,979	2	-	16	
	1938	39	536	175	64	425	-	1,239	54,352	2	-	16	
	1939	27	502	200	42	615	-	1,386	51,529	2	-	16	
	1945	3	162	116	34	414	-	729	23,189	1	-	5	
	1946	12	145	93	75	659	-	984	30,552	1	-	8	
	1947	18	485	90	119	502	-	1,214	44,274	2	-	13	
	1948	16	426	182	109	846	-	1,579	49,431	2	-	16	
	1949	17	464	190	101	694	-	1,466	51,983	2	-	17	
	1950	9	323	151	101	391	-	975	38,680	2	-	18	
	1951	20	789	103	247	910	⁴⁾	2	2,071	74,446	2	-	20
1952	8	451	111	155	356	-	1,081	45,161	2	-	14		
1953	5	441	89	96	353	-	984	39,313	2	-	14		
<i>Cape Province.</i>	1937	57	398	28	49	207	²⁾	43	782	34,515	1	-	13
	1947	1	44	5	39	48	¹⁾	55	192	3,403	1	-	5
	1948	4	134	14	83	105	¹⁾	238	578	11,700	1	-	6
	1949	5	188	15	119	209	¹⁾	139	675	13,708	1	-	6
	1950	4	242	7	324	161	¹⁾	100	838	15,000	1	-	7
	1951	4	218	9	237	211	¹⁾	23	702	14,589	1	-	7
	1952	11	303	15	711	331	-	1,371	30,875	1	-	12	
	1953	4	126	9	295	252	¹⁾	7	693	13,981	1	-	6
<i>Madagascar.</i>	1937	4	22	1,223	8	-	-	1,257	53,500	-	1	6	
	1938	1	2	1,752	2	48	-	1,805	84,750	-	1	6	
	1939	-	-	-	-	61	³⁾	1240	1,301	55,264	-	1	5
	1949	1	-	1,333	-	1	-	1,335	60,583	-	1	8	
	1950	1	10	711	3	⁵⁾ 64	-	789	34,424	-	1	9	
<i>Congo.⁶⁾</i>	1937	-	-	298	-	-	-	298	13,778	-	1	4	
	1949	-	-	1,356	-	-	-	1,356	56,720	1	1	8	
	1950	-	-	1,404	-	-	-	1,404	64,236	1	1	7	
	1951	-	4	1,105	470	146	⁴⁾	1	1,726	62,935	2	1	14
	1952	-	-	265	171	-	-	436	16,485	-	1	7	
<i>Spanish Morocco.</i>	1948	1	72	-	4	64	¹⁾	10	151	3,177	1	-	2
	1949	-	55	-	18	61	-	134	2,009	1	-	2	
	1950	-	29	-	10	77	-	116	1,794	1	-	2	
	1951	-	36	-	52	52	-	140	2,766	1	-	4	
	1952	-	12	-	6	39	-	57	821	1	-	2	
	1953	-	9	-	9	13	-	31	537	1	-	2	

¹⁾ Bryde-whales. ²⁾ 7 right-whales and 36 Bryde-whales. ³⁾ No specification. ⁴⁾ Right-whales

⁵⁾ 52 sperm-whales caught in the Indian Ocean. ⁶⁾ In 1951 St. Thomé included.

* Figures for the years 1940-1944 are omitted.

Table p.—Pacific North.
(Exclusive Japan, Korea, Kamtchatka, and Kuril Islands.)

Grounds.	Years. *	Species of whales caught.							Total of whales.	Oil production. Barrels.	Expeditions.			
		Blue.	Fin.	Hump- back.	Sci.	Sperm.	Others.	Shore sta- tions.			Float- ing fac- tories.	Catch- ers.		
<i>Pacific North. Total.</i>	1937	54	228	114	13	321	-	730	33,389	4	1	14		
	1938	37	115	16	-	315	-	483	22,891	3	-	11		
	1939	5	93	85	-	49	-	232	9,424	2	-	5		
	1940	36	388	129	3	307	¹⁾ 59	922	39,801	2	1	8		
	1941	41	441	49	7	390	²⁾ 3	931	38,135	3	1	15		
	1946	-	-	12	29	72	-	113	³⁾ 118	-	1	2		
	1947	4	17	14	161	206	-	402	2,137	1	3	6		
	1948	1	59	134	107	191	-	492	8,815	2	2	11		
	1949	2	115	91	119	182	-	509	10,202	2	1	9		
	1950	4	150	95	267	103	⁴⁾ 1	620	12,345	1	1	8		
	1951	9	225	55	285	239	4	817	19,073	2	1	11		
	1952	16	240	62	433	144	-	895	19,002	1	1	10		
	1953	8	181	47	14	275	⁶⁾ 14	539	18,255	1	-	5		
<i>California.</i>	1937	8	14	3	12	-	-	37	1,002	-	1	2		
	1938	-	-	-	-	-	-	-	-	-	-	-		
	1939	-	2	59	-	-	-	61	1,837	1	-	2		
	1940	-	6	19	-	4	-	29	1,607	1	-	1		
	1941	-	7	16	-	1	-	24	683	1	-	2		
	1947	-	17	13	3	5	-	38	1,365	1	-	2		
	1948	-	19	16	-	32	-	67	2,350	1	-	2		
	1949	-	10	11	-	28	-	49	1,493	1	-	2		
	1950	-	-	-	-	-	-	-	-	-	-	-		
	1951	-	9	4	-	26	⁴⁾ 1	40	1,358	1	-	2		
<i>British Columbia.</i>	1937	1	44	7	-	265	-	317	14,719	2	-	6		
	1938	4	50	4	-	252	-	310	13,157	2	-	6		
	1940	2	90	2	-	126	-	220	8,700	1	-	3		
	1941	1	67	27	-	233	-	328	13,630	2	-	6		
	1948	-	37	115	2	28	-	182	5,679	1	-	4		
	1949	2	105	76	3	69	-	255	7,841	1	-	3		
	1950	4	150	95	24	40	⁴⁾ 1	314	9,598	1	-	4		
	1951	9	216	51	5	153	⁵⁾ 3	437	14,433	1	-	6		
	1952	16	240	61	22	126	-	465	16,220	1	-	5		
1953	8	181	47	14	275	⁶⁾ 14	539	18,255	1	-	5			
<i>Alaska.</i>	1937	45	170	104	1	56	-	376	17,668	2	-	6		
	1938	33	65	12	-	63	-	173	9,734	1	-	5		
	1939	5	91	26	-	49	-	171	7,587	1	-	3		
<i>Pelagic whaling.</i>	1940	34	292	108	3	177	¹⁾ 59	673	29,494	-	1	4		
	1941	40	367	6	7	156	²⁾ 3	579	23,822	-	1	7		
<i>Bonin Island, pelagic.</i>	1946	-	-	12	29	72	-	113	³⁾ 118	-	1	2		
	1947	4	-	1	158	201	-	364	³⁾ 772	-	3	4		
	1948	1	3	3	105	131	-	243	³⁾ 786	-	2	5		
	1949	-	-	4	116	85	-	205	³⁾ 868	-	1	4		
	1950	-	-	-	243	63	-	306	2,747	-	1	4		
	1951	-	-	-	280	60	-	340	3,282	-	1	3		
1952	-	-	1	411	18	-	430	2,782	-	1	5			

¹⁾ No specification. ²⁾ Right-whales. ³⁾ The whale is mainly used for human food. ⁴⁾ Bottlenose.
⁵⁾ 1 right-whale, 1 Calif. grey-whale, 1 bottlenose. ⁶⁾ 10 grey-whales and 4 bottlenoses.

* The years 1942-1945 are omitted. Total number of whales killed in 1942 189, in 1943 120, in 1944 5, and in 1945 0.

Table q.—Japan and Korea.

Years.	Species of whales caught.							Oil production.	Expeditions.		
	Blue.	Fin.	Hump-back.	Sel.	Sperm.	Others.	Total of whales.		Shore stations.	Float-ing factories.	Catch-ers.
								Barrels.			
1937	12	300	68	435	640	²⁾ 611	2,066	32,425	8	—	24
1938	4	293	60	553	785	³⁾ 275	1,970	33,353	21	—	25
1939	10	241	86	677	1,266	—	2,280	12,784	⁴⁾ —	—	23
1940	15	252	33	429	1,306	—	2,035	25,143	⁴⁾ —	—	45
1941	26	360	40	623	1,298	⁵⁾ 2	2,349	28,084	⁴⁾ —	—	49
1942	12	418	30	255	427	⁶⁾ 6	1,148	10,832	⁴⁾ —	—	18
1943	15	315	69	352	727	⁵⁾ 13	1,491	16,723	⁴⁾ —	—	21
1944	2	376	64	734	990	⁵⁾ 3	2,169	25,182	⁴⁾ —	—	33
1945	10	169	11	74	266	⁵⁾ 1	531	6,082	⁴⁾ —	—	30
1946	8	232	8	545	957	—	1,750	⁷⁾ 5,719	23	—	25
1947	30	257	8	383	964	—	1,642	⁷⁾ 6,177	19	—	25
1948	49	176	8	533	823	⁵⁾ 1	1,590	⁷⁾ 15,018	20	—	25
1949	14	209	—	759	501	—	1,483	⁷⁾ 14,179	17	—	25
1950	7	141	5	299	1,249	—	1,701	26,112	16	—	25
1951	47	209	4	419	1,283	—	1,962	29,611	17	—	25
1952	27	231	3	666	1,071	—	1,998	28,635	18	—	25
1953	22	246	9	585	1,186	—	2,048	31,362	18	—	25

¹⁾ No specification. ²⁾ Different kinds of small whales and 5 right-whales. ³⁾ Different kinds of small whales and 2 right-whales. ⁴⁾ No information of the number of shore stations in operation. ⁵⁾ Right-whales. ⁶⁾ 1 grey-whale and 5 right-whales. ⁷⁾ The whale is mainly used for human food.

Table r.—Kamtchatka.

Years.	Species of whales caught.							Oil production.	Expeditions.		
	Blue.	Fin.	Hump-back.	Sel.	Sperm.	Others.	Total of whales.		Shore stations.	Float-ing factories.	Catch-ers.
								Barrels.			
1937	—	142	65	1	198	¹⁾ 12	418	²⁾ 16,480	—	1	3
1938	—	104	43	—	64	³⁾ 54	265	9,102	—	1	3
1939	—	238	43	—	154	⁴⁾ 41	476	18,854	—	1	3
1940 ⁵⁾	—	—	—	—	—	—	—	—	—	—	—
1941	9	254	7	11	194	⁶⁾ 68	543	18,235	—	1	3
1942	2	203	12	—	215	⁷⁾ 122	554	14,500	—	1	3
1943	—	132	29	—	216	⁸⁾ 101	478	15,941	—	1	3
1944 ⁵⁾	—	—	—	—	—	—	—	—	—	—	—
1945 ⁵⁾	—	—	—	—	—	—	—	—	—	—	—
1946	2	117	9	—	316	⁹⁾ 22	466	16,141	—	1	3
1947 ⁵⁾	—	—	—	—	—	—	—	—	—	—	—
1948	3	229	8	3	574	¹⁰⁾ 3	820	28,383	—	1	4
1949	3	64	—	21	774	¹¹⁾ 6	868	33,045	—	1	4
1950	5	92	4	7	587	¹²⁾ 4	699	27,046	—	1	4
1951	7	90	1	16	765	¹³⁾ 5	884	32,650	—	1	5
1952	62	447	54	27	731	¹⁴⁾ 4	1,325	48,417	—	2	9
1953	102	615	53	124	865	¹⁵⁾ 3	1,762	70,616	—	2	9

¹⁾ 11 grey-whales and 1 right-whale. ²⁾ Calculated. ³⁾ Grey-whales. ⁴⁾ 29 grey-whales and 12 without specification. ⁵⁾ No returns. ⁶⁾ 2 Minke-whales, 57 grey-whales, 5 bottlenoses, and 4 dolphins. ⁷⁾ 3 Minke-whales, 101 grey-whales, 7 bottlenoses, and 11 dolphins. ⁸⁾ 99 grey-whales, 1 bottlenose, and 1 dolphin. ⁹⁾ No specification. ¹⁰⁾ 2 bottlenoses and 1 whale-killer. ¹¹⁾ 2 Minke-whales and 4 whale-killers. ¹²⁾ Minke-whale and 3 bottlenoses. ¹³⁾ 2 Minke-whales and 3 bottlenoses. ¹⁴⁾ 2 Minke-whales and 2 bottlenoses. ¹⁵⁾ Bottlenoses.

Table s.—Kuril Islands.

Years.	Species of whales caught.							Oil production.	Expeditions.		
	Blue.	Fin.	Hump-back.	Sci.	Sperm.	Others.	Total of whales.		Shore stations.	Floating factories.	Catchers.
1948	—	26	5	36	390 ¹⁾	3	460	11,219	5	—	10
1949	—	53	7	60	986 ²⁾	41	1,147	26,173	5	—	10
1950	2	106	18	49	1,471 ³⁾	12	1,658	35,003	5	—	12
1951	9	156	8	52	1,462 ⁴⁾	12	1,699	40,062	5	—	13
1952	17	241	9	188	1,641 ⁵⁾	9	2,105	51,458	5	—	12
1953	10	179	6	86	1,521 ⁶⁾	16	1,818	42,586	5	—	13

¹⁾ 1 Minke-whale and 2 whale-killers. ²⁾ 6 Minke-whales, 11 bottlenoses, and 24 whale-killers. ³⁾ 3 Minke-whales and 9 bottlenoses. ⁴⁾ 7 Minke-whales and 5 bottlenoses. ⁵⁾ 3 Minke-whales and 6 bottlenoses. ⁶⁾ 5 Minke-whales and 8 bottlenoses.

Table t.—Brazil.

Years.	Species of whales caught.							Oil production.	Expeditions.		
	Blue.	Fin.	Hump-back.	Sci.	Sperm.	Others.	Total of whales.		Shore stations.	Floating factories.	Catchers.
1947	—	—	11	14	—	—	25	835	1	—	1
1948	1	—	21	10	—	1 ¹⁾	36	1,060	2	—	1
1949	—	—	15	18	—	2 ²⁾	38	1,250	2	—	2
1950	—	—	24	98	—	1 ¹⁾	128	2,132	2	—	2
1951	—	—	28	151	—	—	179	2,925	1	—	2
1952	—	—	10	157	1	—	168	2,171	2	—	2
1953	—	—	8	161	1	3 ³⁾	175	2,837	2	—	2

¹⁾ No specification. ²⁾ 1 Minke-whale, 4 not specified. ³⁾ Right-whales.

Table u.—Chile.

Years.	Species of whales caught.							Oil production.	Expeditions.		
	Blue.	Fin.	Hump-back.	Sci.	Sperm.	Others.	Total of whales.		Shore stations.	Floating factories.	Catchers.
1937	29	73	19	—	254	—	375	10,137	4	—	1 ¹⁾ 3
1938	15	56	6	44	203	2 ²⁾ 14	338	9,345	3 ³⁾ 1	—	3 ³⁾ 1
1939	2	99	7	15	341	2 ²⁾ 5	469	7,512	2	1	5
1940	—	—	—	—	78	—	78	2,234	1	—	1
1941	—	—	—	—	59	—	59	1,626	1	—	1
1942	—	—	—	—	54	—	54	1,546	1	—	1
1943	—	—	—	—	60	2 ²⁾ 1	61	2,111	1	—	1
1944	2	61	—	—	367	—	430	15,830	2	—	4
1945	42	80	—	—	373	—	495	21,066	2	—	4
1946	11	228	15	1	343	—	598	17,861	2	—	5
1947	24	88	17	2	720	—	851	25,036	2	—	6
1948	85	289	5	6	731	—	1,116	28,522	2	—	7
1949	35	219	6	—	731	—	991	23,382	2	—	7
1950	45	274	5	—	769	—	1,093	30,231	2	—	7
1951	77	279	3	2	733	—	1,094	30,993	2	—	10
1952	143	424	7	10	790	—	1,374	35,406	2	—	10
1953	172	283	21	24	698	—	1,198	30,169	2	—	8

¹⁾ No information as to catchers re. two companies. ²⁾ Right-whales. ³⁾ No information as to the material in operation re. one company.

Table v.—Peru.

Years.	Species of whales caught.							Oil production.	Expeditions.		
	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.	Total of whales.		Shore stations.	Floating factories.	Catchers.
1937	67	97	9	3	3,776	-	3,952	95,831	-	3	22
1938	-	-	-	-	602	-	602	12,869	-	1	8
1941	-	-	-	-	1,914	-	1,914	41,359	-	1	8
1942	-	-	-	-	3,346	-	3,346	64,500	-	1	8
1943	-	-	-	-	3,299	-	3,299	72,000	-	1	8
1947	-	1	2	-	2,887	-	2,890	105,986	-	2	15
1948	1	2	-	1	2,497	-	2,501	88,205	-	1	7
1951	4	21	23	1	6,365	-	6,414	197,524	1	4	51
1952	7	14	20	17	37	-	95	1,941	1	-	1
1953 ¹⁾	-	-	-	-	-	-	-	-	-	-	-

¹⁾ No information.

Table w.—New Zealand.

Years.	Species of whales caught.							Oil production.	Expeditions.			
	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.	Total of whales.		Shore stations.	Floating factories.	Catchers.	
1937.....	1	-	55	-	-	-	56	1,673	1	-	3	
1938.....	1	-	75	-	1	-	77	2,391	1	-	3	
1939.....	1	-	80	-	-	-	81	2,689	1	-	-	
1940.....	-	-	107	-	2	-	109	3,909	1	-	-	
1941.....	-	-	86	-	-	-	86	3,084	1	-	-	
1942.....	-	-	71	-	-	-	71	2,988	1	-	-	
1943.....	-	-	90	-	-	-	90	3,765	1	-	-	
1944.....	-	-	88	-	-	-	88	2,630	1	-	-	
1945.....	-	-	107	-	-	-	107	4,482	1	-	-	
1946.....	-	-	110	-	-	-	110	4,184	1	-	-	
1947.....	1	-	101	-	9	-	111	3,825	1	-	-	
1948.....	-	-	92	-	-	-	92	3,864	1	-	3	
1949.....	-	-	141	-	-	-	141	5,838	1	-	3	
1950.....	-	-	79	-	-	-	79	2,844	1	-	3	
1951.....	-	-	111	-	-	-	111	4,482	1	-	3	
1952.....	-	-	121	1	-	-	122	4,800	1	-	3	
1953.....	-	-	109	-	-	-	109	4,560	1	-	3	

Table x.—Australia.

Years.	Species of whales caught.							Oil production.	Expeditions.		
	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.	Total of whales.		Shore stations.	Floating factories.	Catchers.
1937	-	1	3,242	-	3	-	3,246	131,763	-	2	14
1938	-	-	917	-	-	-	917	42,550	-	1	6
1947	-	-	2	-	-	-	2	40	1	-	1
1948	-	-	4	-	-	-	4	65	1	-	1
1949	-	-	193	-	-	-	193	5,738	2	-	2
1950	-	-	388	-	-	-	388	16,494	2	-	4
1951	-	-	1,224	-	-	-	1,224	56,090	2	-	6
1952	-	-	1,787	-	-	-	1,787	91,830	4	-	10
1953	-	1	2,000	-	-	-	2,001	102,191	4	-	9

Table y.—Production of by-products in the Antarctic and on other whaling grounds
1945-46—1952-53.

Years) Grounds	By-products	Whale	Whale	Liver-	Liver-	Meat	Whale meat,	Whale	Other
		meat-meal, bone-meal, grax-meal, guano, dehydrated whale meat	liver or liver flakes	oil, vitamin oil	meal	extract, liver extract	blubber, ventral grooves	solubles	by- products ²⁾
		Long tons	L. tons	L. tons	L. tons	L. tons	L. tons	L. tons	L. tons
1945-46	Total	19,606	601	6	38	—	22,771	—	2,616
1946-47	"	26,575	714	81	380	104	47,286	—	4,192
1947-48	"	35,933	1,022	112	495	138	54,134	—	5,446
1948-49	"	37,591	1,291	166	596	88	62,534	670	6,178
<i>1949-50.</i>									
Antarctic	25,852	817	250	573	97	46,824	779	1,532
Africa:—									
Natal	3,263	—	—	—	—	—	—	—
Cape Province	...	2,046	—	—	—	—	—	—	—
French Congo	...	1,880	—	—	—	—	—	—	—
Spanish Morocco	...	61	—	—	—	—	—	—	—
Brazil	671	—	—	—	—	—	—	—
North Atl. and Arctic									
Spain	89	—	—	—	—	—	—	—
Portugal	294	—	—	—	—	65	—	—
Norway	536	—	—	—	—	1,543	—	10
Scotland	—	—	—	—	—	3	—	—
Faroe Islands	...	612	—	—	—	—	197	—	16
Iceland	492	5	—	—	—	110	—	—
Newfoundland	...	1,503	—	—	—	—	—	—	—
Pacific North:—									
British Columbia	1,098	—	—	—	—	—	2,009	—
Kamtchatka	—	—	—	—	—	—	—	³⁾ 148
Kuril Islands	—	—	—	—	—	—	—	³⁾ 1,189
Japan	821	—	—	—	—	10,377	—	4,069
Bonin Island	331	—	—	—	—	2,489	—	160
Chile	419	—	—	—	—	—	—	—
Australia	886	—	—	—	—	—	221	57
New Zealand	80	—	—	—	—	—	—	—
Total		40,934	822	250	573	97	61,608	3,009	7,181
<i>1950-51.</i>									
Antarctic	25,821	841	264	622	44	28,389	2,444	946
Africa:—									
Natal	6,309	—	—	—	—	—	—	—
Cape Province	...	1,800	—	—	—	—	—	—	—
French Congo	...	1,608	—	—	—	—	—	—	—
Spanish Morocco	...	127	—	—	—	—	—	—	—
Brazil	748	—	—	—	—	—	—	—
North Atl. and Arctic									
Portugal	136	—	—	—	—	—	—	—
Norway	709	—	—	—	—	1,909	—	5
Scotland	3	—	—	—	—	2	—	—
Faroe Islands	...	483	—	—	—	—	213	—	10
Iceland ⁴⁾	851	2	—	—	—	159	—	—
Newfoundland	...	1,884	—	—	—	—	—	—	—
Pacific North:—									
California	94	—	—	—	—	—	—	—
British Columbia	1,378	—	—	—	—	—	2,373	—
Kuril Islands	—	—	—	—	—	—	—	³⁾ 1,190
Japan	736	—	—	—	—	12,220	—	5,507
Bonin Island	276	—	—	—	—	2,160	—	196

¹⁾ 1945-46 = Antarctic season 1945-46 and summer 1946, a.s.o. ²⁾ Products such as: Finners, sinews, teeth, baleen, ambergris, pancreas, processed bone, bone fertilizer, protein, whale meat cakes, liver paste, whale hypophyses, internal organs. ³⁾ Not specified. ⁴⁾ In addition 200 tons bone were produced in the seasons 1948-51.

Table y (cont.).

Years Grounds	By-products	Whale	Whale liver	Liver-	Liver-	Meat	Whale meat,	Whale	Other
		meat-meal, bone-meal, grax-meal, guano, dehydrated whale meat	or liver flakes	oil, vitamin oil	meal	extract, liver extract	blubber, ventral grooves	solubles	by- produc ts
		Long tons	L. tons	L. tons	L. tons	L. tons	L. tons	L. tons	L. tons
<i>1950-51 (cont.).</i>									
Chile		534		-	-	-	-	-	-
Australia		1,864		-	-	-	-	3,048	420
New Zealand		100		-	-	-	-	-	-
Total		45,461	843	264	622	44	45,052	7,865	8,274
<i>1951-52.</i>									
Antarctic		24,116	823	195	435	53	28,299	5,760	821
Africa:—									
Natal		4,887	-	-	-	-	-	-	-
Cape Province ...		2,018	-	-	-	-	-	-	-
Spanish Morocco.		53	-	-	-	-	5	-	-
Brazil		326	-	-	-	-	-	-	-
North Atl. and Arctic									
Norway		823	18	-	-	-	3,015	-	28
Faroe Islands ...		23	-	-	-	-	127	-	2
Iceland		508	-	-	-	-	2,073	-	-
Newfoundland ...		-	-	-	-	-	350	-	-
Pacific North:—									
British Columbia.		1,945	-	-	-	-	-	-	-
Kamchatka		-	100	-	-	-	3,819	-	¹⁾ 445
Kuril Islands ...		-	-	-	-	-	-	-	¹⁾ 1,586
Japan		4,467	-	-	-	-	14,928	-	1,610
Bonin Island ...		-	58	-	-	-	1,993	-	25
Chile		32	-	-	-	-	-	-	-
Australia		4,244	-	-	-	-	-	3,290	450
New Zealand		110	-	-	-	-	-	-	-
Total		43,552	999	195	435	53	54,609	9,050	4,967
<i>1952-53.</i>									
Antarctic		25,584	601	155	456	134	28,581	5,390	57
Africa:—									
Natal		3,801	-	-	-	-	-	-	-
Cape Province ...		1,126	-	-	-	34	-	-	10
Spanish Morocco.		16	-	-	-	-	27	-	-
Brazil:—									
Paraiba		340	-	-	-	-	-	-	-
North Atl. and Arctic									
Spain		68	-	-	-	-	85	-	-
Norway		783	37	-	-	-	1,534	-	7
Faroe Islands ...		197	-	-	-	-	552	-	6
Iceland		596	45	-	-	-	1,771	-	-
Newfoundland ...		540	-	-	-	-	-	-	-
Pacific North:—									
British Columbia		1,786	-	-	-	-	609	3,211	-
Kamchatka		-	502	-	-	-	7,074	-	171
Kuril Islands ...		-	195	-	-	-	512	-	589
Japan		3,833	-	-	-	-	13,854	-	2,084
Chile		523	-	31	70	-	101	-	-
Australia		4,942	-	-	-	-	-	1,809	-
New Zealand		90	-	-	-	-	-	-	-
Total		44,225	1,380	186	526	168	54,700	10,410	2,924

¹⁾ Not specified.

Table No. 1.—Whaling in 1952/53 and summer 1953.

Geographical areas.	Species of whales caught.							Oil production.	Expeditions.			
	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.	Total of whales.		Shore stations.	Floating factories.	Catch-ers.	
South Georgia	4	1,670	9	498	147	-	2,328	120,003	3	-	21	
Antarctic, pelagic whaling	3,866	21,197	954	123	2,185	-	28,325	1,998,094	-	16	230	
Africa:—								Barrels ¹⁾				
Natal	5	441	89	96	353	-	984	39,313	2	-	14	
Cape Province	4	126	9	295	252 ²⁾	7	693	13,981	1	-	6	
Spanish Morocco	-	9	-	9	13	-	31	537	1	-	2	
Brazil:—												
Paraiba	-	-	8	161	1	-	170	2,635	1	-	2	
Santa Catarina	-	-	-	-	-	5	5	202	1	-	-	
North Atlantic and Arctic:—												
Azores	-	-	-	-	528	-	528	12,661	-	-	-	
Madeira	-	2	-	-	107	-	109	3,153	-	-	-	
Spain	-	18	-	12	38 ⁴⁾	29	97	2,423	2	-	5	
Norway	7	275	4	48	44 ⁵⁾	2	380	12,264	4	-	11	
Faroe Islands	2	87	1	27	52	-	169	4,557	2	-	5	
Iceland	5	207	2	70	48	-	332	10,124	1	-	4	
West Greenland	1	15	1	-	4	-	21	277	-	-	1	
Newfoundland	-	1	-	-	-	6)	21 ⁷⁾	22	2,689	1	-	2
Pacific North:—												
British Columbia	8	181	47	14	275 ⁸⁾	14	539	18,255	1	-	5	
Kamtschatka, pelagic whaling	102	615	53	124	865 ⁹⁾	3	1,762	70,616	-	2	9	
Kuril Islands	10	179	6	86	1,521	16	1,818	42,586	5	-	13	
Japan	22	246	9	585	1,186	-	2,048	31,362	18	-	25	
Peru ¹⁰⁾	-	-	-	-	-	-	-	-	-	-	-	
Chile	172	283	21	24	698	-	1,198	30,169	2	-	8	
Australia	-	1	2,000	-	-	-	2,001	102,191	4	-	9	
New Zealand	-	-	109	-	-	-	109	4,560	1	-	3	
Total	4,208	25,553	3,322	2,172	8,317	97	43,669	2,522,652	50	18	375	

¹⁾ Barrel = 170 kg. (Barrel = abt. $\frac{1}{8}$ long ton, 1 long ton = 1,016 kg.) ²⁾ Bryde-whales. ³⁾ Right-whales. ⁴⁾ Baleen whales, not specified. ⁵⁾ Minke-whales. ⁶⁾ 20 Minke-whales and 1 bottlenose. ⁷⁾ In addition 3,584 pot-heads were taken. ⁸⁾ 10 grey-whales and 4 bottlenoses. ⁹⁾ Bottlenoses. ¹⁰⁾ No information received from 2 companies.

Table No. 2.—Norwegian whaling in 1952/53 and summer 1953.

Geographical areas.	Species of whales caught.							Oil production.	Expeditions.		
	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.	Total of whales.		Shore stations.	Floating factories.	Catch-ers.
South Georgia	2	680	7	122	48	-	859	46,019	1	-	7
Antarctic, pelagic	1,067	8,742	17	16	539	-	10,381	767,960	-	7	95
Norway	7	275	4	48	44 ¹⁾	2	380	12,264	4	-	11
Total	1,076	9,697	28	186	631	2	11,620	826,243	5	7	113

¹⁾ Minke-whales.

Table No. 3.—Whaling of United Kingdom in 1952/53 and summer 1953.

Geographical areas.	Species of whales caught.							Oil production.	Expeditions.		
	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.	Total of whales.		Shore stations.	Floating factories.	Catchers.
								Barrels			
South Georgia	—	598	1	161	31	—	791	41,797	1	—	7
Antarctic, pelagic . .	1,124	3,377	527	99	1,046	—	6,173	449,215	—	3	46
Total	1,124	3,975	528	260	1,077	—	6,964	491,012	1	3	53

Table No. 4.—Whaling results for the various countries in 1952/53 and summer 1953.

Countries.	Species of whales caught.							Oil production.	Expeditions.		
	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.	Total of whales.		Shore stations.	Floating factories.	Catchers.
								Barrels			
Norway	1,076	9,697	28	186	631 ¹⁾	2	11,620	826,243	5	7	113
British Commonwealth	1,400	6,744	2,787	665	2,134	42	13,772	822,456	11	4	108
United Kingdom	1,124	3,975	528	260	1,077	—	6,964	491,012	1	3	53
Union of South Africa	268	2,586	103	391	782 ²⁾	7	4,137	203,749	3	1	36
Australia	—	1	2,000	—	—	—	2,001	102,191	4	—	9
Canada	8	181	47	14	275 ³⁾	14	539	18,255	1	—	5
New Zealand	—	—	109	—	—	—	109	4,560	1	—	3
Newfoundland	—	1	—	—	—	21 ⁴⁾	22 ⁵⁾	2,689	1	—	2
Japan	652	2,688	64	684	1,306	—	5,394	267,820	18	3	59
U.S.S.R.	159	2,690	159	112	2,466 ⁶⁾	19	5,605	239,348	5	2	32
Panama	388	1,728	60	7	182	—	2,365	164,150	—	1	16
Netherlands	351	993	190	—	41	—	1,575	103,710	—	1	12
Argentina	2	392	1	215	68	—	678	32,187	1	—	7
Chile	172	283	21	24	698	—	1,198	30,169	2	—	9
Portugal	—	2	—	—	635	—	637	15,814	—	—	—
Iceland	5	207	2	70	48	—	332	10,124	1	—	4
Denmark	3	102	2	27	56	—	190	4,834	2	—	6
Brazil	—	—	8	161	1 ⁷⁾	5	175	2,837	2	—	2
Spain	—	27	—	21	51 ⁸⁾	29	128	2,960	3	—	7
Peru ⁹⁾	—	—	—	—	—	—	—	—	—	—	—
Total	4,208	25,553	3,322	2,172	8,317	97	43,669	2,522,652	50	18	375

¹⁾ Minke-whales. ²⁾ Bryde-whales. ³⁾ 10 grey-whales and 4 bottlenoses. ⁴⁾ 20 Minke-whales and 1 bottlenose. ⁵⁾ In addition 3,584 potheads were taken. ⁶⁾ 11 Minke-whales and 8 bottlenoses. ⁷⁾ Right-whales. ⁸⁾ Baleen whales, not specified. ⁹⁾ No information received.

Table No. 5.—Average size of whales caught in the summer season 1953.

Geographical areas. Number of whales measured.	Company.	Average size.		
		Males.	Females.	Total animals.
A. Blue-whales.				
<i>Africa:—</i>				
Natal.....	—	66.50	73.00	70.40
Males 2 } Total 5.				
Females 3 }				
Cape Province.....	—	66.00	66.33	66.25
Male 1 } Total 4.				
Females 3 }				
Africa, total.....	—	66.33	69.67	68.56
Males 3 } Total 9.				
Females 6 }				
<i>North Atlantic and Arctic:—</i>				
Norway.....	No. 1	71.00	—	71.00
Males 3 } Total 7.	" 2	66.00	67.00	66.50
Females 4 }	" 3	—	65.50	65.50
	" 4	—	65.00	65.00
Average		69.33	65.75	67.29
Faroe Islands.....	No. 1	—	68.00	68.00
Females 2.	" 2	—	72.00	72.00
Average		—	70.00	70.00
Iceland.....	—	67.25	65.00	66.80
Males 4 } Total 5.				
Female 1 }				
West Greenland.....	—	—	75.00	75.00
Female 1.				
North Atlantic and Arctic, total	—	68.14	67.88	68.00
Males 7 } Total 15.				
Females 8 }				
<i>Pacific North:—</i>				
British Columbia.....	—	67.50	77.00	69.88
Males 6 } Total 8.				
Females 2 }				
Kamtschatka, pelagic.....	No. 1	74.00	77.50	74.64
Males 59 } Total 101.	" 2	74.76	77.53	75.99
Females 42 }				
Average		74.64	77.52	75.84
Kuril Islands.....	—	73.38	75.50	73.80
Males 8 } Total 10.				
Females 2 }				

Table No. 5 (continued).

Geographical areas. Number of whales measured.	Company.	Average size.		
		Males.	Females.	Total animals.
Japan	No. 1	Engl. feet. 70.00	Engl. feet. 73.25	Engl. feet. 71.44
Males 14 } Total 22.	" 2	72.00	66.00	71.14
Females 8 }	" 3	66.67	65.50	66.20
	" 4	—	76.00	76.00
Average		70.14	70.75	70.36
Pacific North, total.....	—	73.31	76.43	74.50
Males 87 } Total 141.				
Females 54 }				
Chile	—	72.09	76.27	74.11
Males 88 } Total 170.				
Females 82 }				
<u>B. Fin-whales.</u>				
<i>Africa:—</i>				
Natal	—	60.43	60.86	60.62
Males 251 } Total 441.				
Females 190 }				
Cape Province	—	59.98	60.10	60.05
Males 48 } Total 107.				
Females 59 }				
Spanish Morocco.....	—	57.50	64.20	61.22
Males 4 } Total 9.				
Females 5 }				
Africa, total	—	60.32	60.75	60.52
Males 303 } Total 557.				
Females 254 }				
<i>North Atlantic and Arctic:—</i>				
Spain	—	—	—	58.72
Total 18.				
Norway	No. 1	58.31	58.83	58.58
Males 123 } Total 275.	" 2	57.95	61.11	59.76
Females 152 }	" 3	59.45	61.11	60.38
	" 4	59.16	60.20	59.77
Average		58.69	60.12	59.48
Faroe Islands	No. 1	56.09	61.28	58.79
Males 43 } Total 87.	" 2	58.00	60.11	59.03
Females 44 }				
Average		56.98	61.77	59.90
Iceland	—	56.26	58.29	57.30
Males 101 } Total 207.				
Females 106 }				
West Greenland	—	59.71	61.63	60.73
Males 7 } Total 15.				
Females 8 }				

Table No. 5 (continued).

Geographical areas, Number of whales measured.	Company.	Average size.		
		Males.	Females.	Total animals.
Newfoundland Female 1.		Engl. feet. —	Engl. feet. 57.00	Engl. feet. 57.00
North Atlantic and Arctic, total Males 274 } Total 585. ¹⁾ Females 311 }		57.55	59.62	58.65
<i>Pacific North</i> :— British Columbia Males 91 } Total 181. Females 90 }		56.63	60.54	58.57
Kamtschatka, pelagic Males 319 } Total 610. Females 291 }	No. 1 " 2	59.57 60.39	62.22 63.30	60.78 61.79
Average		60.19	63.06	61.56
Kuril Islands Males 100 } Total 178. Females 78 }		59.39	62.28	60.66
Japan Males 142 } Total 246. Females 104 }	No. 1 " 2 " 3 " 4 " 5	57.31 56.20 55.91 53.60 56.50	58.63 57.22 55.69 55.75 50.50	57.86 56.65 55.89 54.56 53.50
Average		56.52	57.45	56.91
Pacific North, total Males 652 } Total 1,215. Females 563 }	—	58.77	61.51	60.04
<i>Chile</i> Males 122 } Total 237. Females 115 }		55.48	56.29	55.87
<i>Australia</i> Male 1.		63.00		63.00
C. Humpbacks.				
<i>Africa</i> :— Natal Males 44 } Total 89. Females 45 }		37.23	38.40	37.82
Cape Province Males 6 } Total 9. Females 3 }		39.67	43.67	41.00
Africa, total Males 50 } Total 98. Females 48 }		37.52	38.73	38.11
<i>Brazil</i> Males 2 } Total 8. Females 6 }		38.50	39.83	39.50

¹⁾ Excluding 18 fin-whales with sex not stated (Spain).

Table No. 5 (continued).

Geographical areas. Number of whales measured.	Company.	Average size.		
		Males.	Females.	Total animals.
		Engl. feet.	Engl. feet.	Engl. feet.
<i>North Atlantic and Arctic:—</i>				
Norway	—	43.00	44.50	43.75
Males 2 } Total 4.				
Females 2 }				
Faroe Islands	—	39.00	—	39.00
Male 1.				
Iceland	—	44.00	33.00	38.50
Male 1 } Total 2.				
Female 1 }				
West Greenland	—	—	37.00	37.00
Female 1.				
North Atlantic and Arctic, total	—	42.25	39.75	41.00
Males 4 } Total 8.				
Females 4 }				
<i>Pacific North:—</i>				
British Columbia.....	—	39.35	39.17	39.26
Males 23 } Total 47.				
Females 24 }				
Kamtschatka, pelagic.....	No. 1	39.71	40.05	40.00
Males 28 } Total 53.	" 2	40.10	42.48	41.29
Females 25 }				
Average		40.00	42.48	41.02
Kuril Islands.....	—	42.25	44.00	42.83
Males 4 } Total 6.				
Females 2 }				
Japan	No. 1	38.33	—	38.33
Males 7 } Total 8.	" 2	41.50	50.00	44.33
Female 1 }	" 3	40.50	—	40.50
Average		39.86	50.00	41.13
Pacific North, total.....	—	39.89	41.00	40.39
Males 62 } Total 114.				
Females 52 }				
<i>Chile</i>	—	44.00	—	44.00
Male 1.				
<i>Australia</i>	No. 1	39.62	40.34	39.96
Males 1,242 } Total 1,995.	" 2	38.93	40.65	39.60
Females 753 }	" 3	39.20	40.77	39.96
Average	" 4	40.31	40.68	40.41
<i>New Zealand</i>	—	41.23	41.42	41.32
Males 57 } Total 109.				
Females 52 }				
D. Sei-whales.				
<i>Africa:—</i>				
Natal	—	42.78	43.76	43.21
Males 54 } Total 96.				
Females 42 }				

Table No. 5 (continued).

Geographical areas. Number of whales measured.	Company.	Average size.		
		Males.	Females.	Total animals.
Cape Province	—	Engl. feet.	Engl. feet.	Engl. feet.
Males 112 } Total 285.		41.66	46.21	44.42
Females 173 }				
Spanish Morocco.....	—	49.50	50.80	50.22
Males 4 } Total 9.				
Females 5 }				
Africa, total.....	—	42.20	45.85	44.26
Males 170 } Total 390.				
Females 220 }				
<i>Brazil</i>	—	48.92	50.86	49.69
Males 97 } Total 161.				
Females 64 }				
<i>North Atlantic and Arctic:—</i>				
Spain	—	—	—	41.33
Total 12.				
Norway	No. 1	38.07	40.16	39.27
Males 22 } Total 48.	" 2	41.00	42.00	41.33
Females 26 }	" 3	41.50	40.00	40.50
Average		40.95	40.35	40.63
Faroe Islands	No. 1	39.50	40.80	40.22
Males 10 } Total 27.	" 2	41.33	40.92	41.06
Females 17 }				
Average		40.60	40.88	40.78
Iceland	—	42.61	43.79	43.49
Males 18 } Total 70.				
Females 52 }				
North Atlantic and Arctic, total	—	41.48	42.33	42.03
Males 50 } Total 145. ¹⁾				
Females 95 }				
<i>Pacific North:—</i>				
British Columbia	—	45.00	46.38	46.29
Male 1 } Total 14.				
Females 13 }				
Kamtschatka, pelagic	No. 1	50.75	50.00	50.36
Males 63 } Total 124.	" 2	45.94	48.28	47.06
Females 61 }				
Average		46.86	48.67	47.75
Kuril Islands.....	—	46.08	46.14	46.11
Males 50 } Total 85.				
Females 35 }				
Japan.....	No. 1	42.81	43.52	43.13
Males 315 } Total 584.	" 2	42.41	43.82	43.06
Females 269 }	" 3	43.24	44.51	43.83
	" 4	42.00	44.33	42.94
	" 5	41.45	42.67	42.12
Average		42.54	43.76	43.10

¹⁾ Excluding 12 sei-whales with sex not stated (Spain).

Table No. 5 (continued).

Geographical areas. Number of whales measured.	Company.	Average size.		
		Males.	Females.	Total animals.
		Engl. feet.	Engl. feet.	Engl. feet.
Pacific North, total.....	—	43.59	44.86	44.19
Males 429 } Total 807.				
Females 378 }				
<i>Chile</i>	—	44.27	44.92	44.63
Males 11 } Total 24.				
Females 13 }				
<u>E. Sperm-whales.</u>				
<i>Africa:—</i>				
Natal	—	43.78	35.07	42.72
Males 310 } Total 353.				
Females 43 }				
Cape Province	—	40.32	35.89	39.19
Males 183 } Total 246.				
Females 63 }				
Spanish Morocco	—	38.62	31.00	35.69
Males 8 } Total 13.				
Females 5 }				
Africa, total	—	42.44	35.35	41.15
Males 501 } Total 612.				
Females 111 }				
<i>Brazil</i>	—	54.00	—	54.00
Male 1.				
<i>North Atlantic and Arctic:—</i>				
Spain	—	—	—	38.32
Total 19.				
Norway	No. 1	49.70	—	49.70
Males 44.	„ 2	49.74	—	49.74
Average		49.73	—	49.73
Faroe Islands	No. 1	44.58	—	44.58
Males 52.	„ 2	49.21	—	49.21
Average		46.27	—	46.27
Iceland	—	48.98	—	48.98
Males 48.				
West Greenland	—	48.50	—	48.50
Males 4.				
North Atlantic and Arctic, total	—	48.24	—	48.24
Males 148. ¹⁾				
<i>Pacific North:—</i>				
British Columbia	—	43.22	34.25	42.96
Males 267 } Total 275.				
Females 8 }				

¹⁾ Excluding 19 sperm-whales with sex not stated (Spain).

Table No. 5 (continued).

Geographical areas. Number of whales measured.	Company.	Average size.		
		Males.	Females.	Total animals.
Kamtschatka, pelagic..... Males 833 } Total 853. Females 20 }	—	Engl. feet. 44.38	Engl. feet. 36.90	Engl. feet. 44.20
Kuril Islands..... Males 1,165 } Total 1,494. Females 329 }	—	39.59	35.60	38.71
Japan..... Males 812 } Total 1,185 Females 373 }	No. 1 " 2 " 3 " 4 " 5	38.57 39.33 37.51 36.94 41.58	35.92 35.90 35.43 36.00 35.76	37.75 38.49 36.52 36.60 39.86
Average		38.83	35.80	37.88
Pacific North, total..... Males 3,077 } Total 3,807. Females 730 }	—	41.00	35.72	38.98
Chile..... Males 359 } Total 584. Females 225 }	—	42.78	35.50	39.98
F. Right-whales.				
Brazil..... Males 2 } Total 5. Females 3 }	—	47.50	41.67	44.00
G. Bryde-whales.				
Africa:— Cape Province..... Males 2 } Total 7. Females 5 }	—	40.50	46.80	45.00

Table No. 6.—Whales caught in the summer season 1953,
by species, sex, and size.

I. Natal.

Blue-whales.

Engl. feet.	Number of		Total animals.	Average size	Per cent
	males.	females.			
66	1	1	2	{ Males: 66.50 feet { Females: 73.00 " { Total animals: 70.40 "	{ Males: 40.00 { Females: 60.00
67	1	—	1		
68	—	1	1		
85	—	1	1		
Sum	2	3	5		

Table No. 6 (continued).

Fin-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
48	2	-	2	68	6	4	10
49	2	1	3	69	4	4	8
50	-	-	-	70	8	3	11
51	1	1	2	71	4	1	5
52	5	3	8	72	-	2	2
53	3	1	4	73	1	3	4
54	-	1	1	74	-	2	2
55	39	38	77	75	1	1	2
56	12	10	22	76	-	1	1
57	15	16	31	77	-	1	1
58	18	10	28	78	-	1	1
59	18	4	22	Sum	251	190	441
60	21	11	32	Average size { Males: 60.43 feet			
61	15	13	28	{ Females: 60.86 "			
62	20	13	33	{ Total animals: 60.62 "			
63	14	10	24	Per cent { Males: 56.92			
64	9	11	20	{ Females: 43.08			
65	9	8	17				
66	15	9	24				
67	9	7	16				

Humpbacks.

31	3	1	4	44	1	-	1
32	-	1	1	45	1	1	2
35	12	10	22	48	-	1	1
36	4	5	9	Sum	44	45	89
37	6	4	10	Average size { Males: 37.23 feet			
38	5	2	7	{ Females: 38.40 "			
39	7	4	11	{ Total animals: 37.82 "			
40	2	7	9	Per cent { Males: 49.44			
41	1	1	2	{ Females: 50.56			
42	-	3	3				
43	2	5	7				

Sei-whales.

35	3	2	5	48	6	1	7
36	1	1	2	49	3	4	7
37	2	3	5	50	2	2	4
38	-	4	4	53	-	4	4
39	4	1	5	54	-	1	1
40	6	2	8	Sum	54	42	96
41	5	4	9	Average size { Males: 42.78 feet			
42	8	3	11	{ Females: 43.76 "			
43	2	2	4	{ Total animals: 43.21 "			
44	7	3	10	Per cent { Males: 56.25			
45	2	1	3	{ Females: 43.75			
46	2	1	3				
47	1	3	4				

Table No. 6 (continued).

Sperm-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.	
	males.	females.			males.	females.		
31	1	1	2	48	22	-	22	
32	3	2	5	49	18	-	18	
33	1	1	2	50	19	-	19	
34	-	2	2	51	8	-	8	
35	18	27	45	52	13	-	13	
36	11	6	17	53	5	-	5	
37	7	2	9	54	3	-	3	
38	18	1	19	55	1	-	1	
39	17	1	18	Sum	310	43	353	
40	20	-	20	Average size {				Males: 43.78 feet
41	19	-	19	Females: 35.07 "				Total animals: 42.72 "
42	14	-	14	Per cent {				Males: 87.82
43	13	-	13	Females: 12.18				
44	13	-	13					
45	29	-	29					
46	15	-	15					
47	22	-	22					

2. Cape Province.

Blue-whales.

Engl. feet.	Number of		Total animals.	Average size {	Males: 66.00 feet	
	males.	females.				
60	-	1	1	Per cent {	Females: 66.33 "	
66	1	-	1			Total animals: 66.25 "
67	-	1	1			
72	-	1	1			
Sum	1	3	4	Males: 25.00		
				Females: 75.00		

Fin-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.	
	males.	females.			males.	females.		
50	1	-	1	70	-	-	-	
55	16	18	34	71	2	1	3	
56	2	8	10	72	1	1	2	
57	2	4	6	73	-	-	-	
58	2	2	4	74	-	1	1	
59	4	2	6	75	-	1	1	
60	3	5	8	76	-	2	2	
61	2	2	4	Sum	48	59	¹⁾ 107	
62	-	2	2	Average size {				Males: 59.98 feet
63	2	1	3	Females: 60.10 "				Total animals: 60.05 "
64	3	4	7	Per cent {				Males: 44.86
65	1	-	1	Females: 55.14				
66	2	1	3					
67	1	2	3					
68	3	1	4					
69	1	1	2					

¹⁾ In addition 19 fin-whales lost.

Table No. 6 (continued).

Humpbacks.

Engl. feet.	Number of		Total animals.	
	males.	females.		
36	1	-	1	Average size { Males: 39.67 feet Females: 43.67 " Total animals: 41.00 "
37	-	1	1	
38	2	-	2	
39	-	-	-	Per cent { Males: 66.67 Females: 33.33
40	1	-	1	
41	1	-	1	
42	-	-	-	
45	1	1	2	
49	-	1	1	
Sum	6	3	9	

Sei-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
35	9	4	13	51	1	12	13
36	4	4	8	52	2	17	19
37	10	9	19	53	-	11	11
38	14	9	23	54	-	5	5
39	7	5	12	55	1	3	4
40	10	13	23	56	-	4	4
41	11	7	18	57	-	1	1
42	7	5	12	Sum	112	173	¹⁾ 285
43	9	6	15	Average size { Males: 41.66 feet Females: 46.21 " Total animals: 44.42 "			
44	3	6	9				
45	2	4	6				
46	1	10	11	Per cent { Males: 39.30 Females: 60.70			
47	1	2	3				
48	11	8	19				
49	3	11	14				
50	6	17	23				

¹⁾ In addition 10 sei-whales lost.

Sperm-whales.

33	-	1	1	49	3	-	3
35	18	30	48	50	5	-	5
36	13	15	28	51	8	-	8
37	32	10	42	52	4	-	4
38	28	6	34	53	1	-	1
39	21	-	21	54	1	-	1
40	20	1	21	56	1	-	1
41	4	-	4	Sum	183	63	¹⁾ 246
42	6	-	6	Average size { Males: 40.32 feet Females: 35.89 " Total animals: 39.19 "			
43	3	-	3				
44	3	-	3				
45	3	-	3	Per cent { Males: 74.39 Females: 25.61			
46	2	-	2				
47	2	-	2				
48	5	-	5				

¹⁾ In addition 6 sperm-whales lost.

Table No. 6 (continued).

Bryde-whales.

Engl. feet.	Number of		Total animals.	
	males.	females.		
40	1	—	1	Average size { Males: 40.50 feet Females: 46.80 " Total animals: 45.00 "
41	1	—	1	
45	—	1	1	
46	—	2	2	Per cent { Males: 28.57 Females: 71.43
47	—	1	1	
50	—	1	1	
Sum	2	5	7	

3. Spanish Morocco.

Fin-whales.

55	1	—	1	Average size { Males: 57.50 feet Females: 64.20 " Total animals: 61.22 "
57	1	1	2	
59	2	1	3	
66	—	1	1	Per cent { Males: 44.44 Females: 55.56
69	—	1	1	
70	—	1	1	
Sum	4	5	9	

Sei-whales.

39	1	—	1	Average size { Males: 49.50 feet Females: 50.80 " Total animals: 50.22 "
46	—	1	1	
49	—	1	1	
52	2	1	3	Per cent { Males: 44.44 Females: 55.56
53	—	1	1	
54	—	1	1	
55	1	—	1	
Sum	4	5	9	

Sperm-whales.

26	—	1	1	Average size { Males: 38.62 feet Females: 31.00 " Total animals: 35.69 "
30	—	2	2	
33	—	1	1	
34	1	—	1	Per cent { Males: 61.54 Females: 38.46
36	2	1	3	
39	3	—	3	
40	1	—	1	
46	1	—	1	
Sum	8	5	13	

Table No. 6 (continued).

Sei-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
35	12	6	18	50	8	19	27
36	5	5	10	51	1	12	13
37	12	12	24	52	4	18	22
38	14	13	27	53	-	16	16
39	12	6	18	54	-	7	7
40	16	15	31	55	2	3	5
41	16	11	27	56	-	4	4
42	15	8	23	57	-	1	1
43	11	8	19	Sum	170	220	1) 390
44	10	9	19	Average size	{	Males:	42.20 feet
45	4	5	9			Females:	45.85 "
46	3	12	15			Total animals:	44.26 "
47	2	5	7	Per cent	{	Males:	43.59
48	17	9	26			Females:	56.41
49	6	16	22				

1) In addition 10 sei-whales lost.

Sperm-whales.

26	-	1	1	47	24	-	24
30	-	2	2	48	27	-	27
31	1	1	2	49	21	-	21
32	3	2	5	50	24	-	24
33	1	3	4	51	16	-	16
34	1	2	3	52	17	-	17
35	36	57	93	53	6	-	6
36	26	22	48	54	4	-	4
37	39	12	51	55	1	-	1
38	46	7	53	56	1	-	1
39	41	1	42	Sum	501	111	1) 612
40	41	1	42	Average size	{	Males:	42.44 feet
41	23	-	23			Females:	35.35 "
42	20	-	20			Total animals:	41.15 "
43	16	-	16	Per cent	{	Males:	81.86
44	16	-	16			Females:	18.14
45	32	-	32				
46	18	-	18				

1) In addition 6 sperm-whales lost.

Bryde-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
40	1	-	1	Average size	{	Males:	40.50 feet
41	1	-	1			Females:	46.80 "
45	-	1	1			Total animals:	45.00 "
46	-	2	2	Per cent	{	Males:	28.57
47	-	1	1			Females:	71.43
50	-	1	1				
Sum	2	5	7				

Table No. 6 (continued).

5. Brazil.
Humpbacks.

Engl. feet.	Number of		Total animals.	
	males.	females.		
35	-	2	2	Average size { Males: 38.50 feet Females: 39.83 " Total animals: 39.50 "
38	1	1	2	
39	1	1	2	Per cent { Males: 25.00 Females: 75.00
42	-	1	1	
50	-	1	1	
Sum	2	6	8	

Sei-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
41	-	2	2	54	-	3	3
44	1	-	1	55	-	3	3
45	2	1	3	56	-	8	8
46	5	2	7	Sum	97	64	161
47	13	5	18	Average size { Males: 48.92 feet Females: 50.86 " Total animals: 49.69 "	Per cent { Males: 60.25 Females: 39.75		
48	15	1	16				
49	28	8	36				
50	11	10	21				
51	16	7	23				
52	6	13	19				
53	-	1	1				

Sperm-whale.

1 male, 54 feet.

Right-whales.

Engl. feet.	Number of		Total animals.	
	males.	females.		
40	1	2	3	Average size { Males: 47.50 feet Females: 41.67 " Total animals: 44.00 "
45	-	1	1	
55	1	-	1	Per cent { Males: 40.00 Females: 60.00
Sum	2	3	5	

6. Azores.

Sperm-whales.

355 males and 173 females, total 528.

Table No. 6 (continued).

Fin-whales.
2 females.

7. Madeira.

Sperm-whales.
81 males and 26 females, total 107.

8. Spain.¹⁾

Fin-whales.	
Engl. feet	Total
55	10
59	3
62	1
63	1
64	—
65	1
66	1
74	1
Sum	18

Average size:
Total 58.72 feet.

Sei-whales.	
Engl. feet	Total
35	5
37	1
39	1
42	2
50	2
51	1
Sum	12

Average size:
Total 41.33 feet.

Sperm-whales.

Engl. feet	Total
35	6
36	5
37	4
38	1
45	1
46	1
51	1
Sum	19

Average size:
Total 38.32 feet.

¹⁾ Sex of whales not stated.—In addition 29 baleen whales not specified and 19 sperm-whales, sex and length not stated.

9. Norway.**Blue-whales.**

Engl. feet.	Number of		Total animals.
	males.	females.	
56	—	1	1
65	—	1	1
66	1	—	1
67	—	1	1
70	1	—	1
72	1	—	1
75	—	1	1
Sum	3	4	7

Average size { Males: 69.33 feet
Females: 65.75 "
Total animals: 67.29 "

Per cent { Males: 42.86
Females: 57.14

Table No. 6 (continued).

Fin-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
40	1	-	1	63	14	7	21
43	-	1	1	64	7	10	17
46	-	1	1	65	4	6	10
47	1	-	1	66	6	10	16
48	-	1	1	67	-	7	7
49	1	-	1	68	1	8	9
50	7	13	20	69	1	6	7
51	3	3	6	70	-	5	5
52	5	5	10	71	-	3	3
53	4	3	7	72	-	1	1
54	5	8	13	73	-	1	1
55	9	5	14	Sum	123	152	275
56	3	10	13	Average size {			Males: 58.69 feet
57	5	3	8	{			Females: 60.12 "
58	8	15	23	{			Total animals: 59.48 "
59	7	4	11	Per cent {			Males: 44.73
60	11	9	20	{			Females: 55.27
61	10	5	15				
62	10	2	12				

Humpbacks.

Engl. feet.	Number of		Total animals.	Average size {	Males: 43.00 feet
	males.	females.			
40	1	-	1	{	Females: 44.50 "
43	-	1	1		Total animals: 43.75 "
46	1	1	2		Per cent {
Sum	2	2	4	{	Females: 50.00

Sei-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
31	-	1	1	46	1	2	3
35	1	-	1	47	-	1	1
36	1	4	5	48	-	1	1
37	3	1	4	Sum	22	26	48
38	2	3	5	Average size {			Males: 40.95 feet
39	2	1	3	{			Females: 40.35 "
40	1	6	7	{			Total animals: 40.63 "
41	1	-	1	Per cent {			Males: 45.83
42	1	3	4	{			Females: 54.17
43	3	1	4				
44	3	2	5				
45	3	-	3				

Table No. 6 (continued).

Sperm-whales.

Engl. feet.	Number of males.
45	1
46	4
47	6
48	2
49	6
50	3
51	10
52	9
53	3
Sum	44

Average size: 49.73 feet.

10. Faroe Islands.**Blue-whales.**

Engl. feet.	Number of		Total animals.
	males.	females.	
68	—	1	1
72	—	1	1
Sum	—	2	2

Average size: Females: 70.00 feet.

Fin-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
47	—	1	1	64	2	4	6
48	1	—	1	65	2	1	3
49	1	—	1	66	—	2	2
50	3	4	7	67	—	1	1
51	2	1	3	68	—	5	5
52	4	—	4	69	1	3	4
53	2	—	2	70	—	1	1
54	1	3	4	71	—	1	1
55	2	4	6	74	—	1	1
56	3	3	6	Sum	43	44	87
57	2	—	2	Average size {			Males: 56.98 feet
58	5	3	8				Females: 61.77 "
59	4	—	4	Per cent {			Total animals: 59.90 "
60	3	—	3				Males: 49.43
61	3	4	7	Females: 50.57			
62	1	—	1				
63	1	2	3				

Humpback.

1 male, 39 feet.

Table No. 6 (continued).

Sei-whales.

Engl. feet.	Number of		Total animals.	
	males.	females.		
36	1	1	2	Average size { Males: 40.60 feet Females: 40.88 " Total animals: 40.78 "
37	1	3	4	
38	1	-	1	
39	-	2	2	Per cent { Males: 37.04 Females: 62.96
40	2	2	4	
41	1	3	4	
42	1	1	2	
43	2	2	4	
45	-	2	2	
46	1	-	1	
49	-	1	1	
Sum	10	17	27	

Sperm-whales.

Engl. feet.	Number of males.	Engl. feet.	Number of males.
37	3	49	4
38	-	50	5
39	2	51	2
40	5	52	2
43	7	53	2
44	1	54	2
45	2	57	1
46	4		
47	5		
48	5	Sum	52

Average size: 46.27 feet.

II. Iceland.

Blue-whales.

Engl. feet.	Number of		Total animals.	
	males.	females.		
55	1	-	1	Average size { Males: 67.25 feet Females: 65.00 " Total animals: 66.80 "
65	-	1	1	
70	1	-	1	
71	1	-	1	Per cent { Males: 80.00 Females: 20.00
73	1	-	1	
Sum	4	1	5	

Table No. 6 (continued).

Fin-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
43	-	1	1	64	-	4	4
47	-	1	1	65	3	2	5
48	3	1	4	66	-	2	2
49	2	-	2	67	-	9	9
50	6	6	12	68	-	-	-
51	3	5	8	69	-	-	-
52	9	4	13	70	-	3	3
53	7	9	16	71	-	2	2
54	10	6	16	Sum	101	106	207
55	4	6	10	Average size {			Males: 56.26 feet
56	7	4	11	{			Females: 58.29 "
57	11	7	18	{			Total animals: 57.30 "
58	6	5	11	Per cent {			Males: 48.79
59	6	6	12	{			Females: 51.21
60	7	7	14				
61	6	7	13				
62	7	7	14				
63	4	2	6				

Humpbacks.

Engl. feet.	Number of		Total animals.	Average size {	Males: 44.00 feet
	males.	females.			
33	-	1	1	Per cent {	Males: 50.00
44	1	-	1		
Sum	1	1	2		

Sei-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
35	-	1	1	48	-	4	4
36	-	4	4	49	-	1	1
37	1	1	2	Sum	18	52	70
38	-	1	1	Average size {			Males: 42.61 feet
39	1	2	3	{			Females: 43.79 "
41	5	4	9	{			Total animals: 43.49 "
42	1	2	3	Per cent {			Males: 25.71
43	3	3	6	{			Females: 74.29
44	2	4	6				
45	3	10	13				
46	2	4	6				
47	-	11	11				

Table No. 6 (continued).

Sperm-whales.

Engl. feet.	Number of males.	Engl. feet.	Number of males
41	1	51	6
42	-	52	4
43	4	53	2
45	2	54	3
46	3	55	1
47	5	56	1
48	6		
49	6	Sum	48
50	4		

Average size: Males: 48.98 feet.

12. West Greenland.**Blue-whale.**

1 female, 75.00 feet.

Fin-whales.

Engl. feet.	Number of		Total animals.	Average size { Males: 59.71 feet Females: 61.63 ,, Total animals: 60.73 ,, Per cent { Males: 46.67 Females: 53.33
	males.	females.		
52	1	-	1	
56	-	1	1	
57	1	-	1	
59	-	1	1	
61	1	-	1	
62	4	4	8	
64	-	1	1	
66	-	1	1	
Sum	7	8	15	

Humpback.

1 female, 37.00 feet.

Sperm-whales.

Engl. feet.	Number of males.
47	2
50	2
Sum	4

Average size: 48.50 feet.

13. Newfoundland.**Fin-whale.**

1 female, 57.00 feet.

Table No. 6 (continued).

14. Summary North Atlantic and Arctic.

(Norway, Faroe Islands, Iceland, West Greenland, and Newfoundland.)

Blue-whales.

Engl. feet.	Number of		Total animals.		
	males.	females.			
55	1	—	1	Average size { Males: 68.14 feet Females: 67.88 „ Total animals: 68.00 „	
56	—	1	1		
65	—	2	2		
66	1	—	1		
67	—	1	1		
68	—	1	1		
69	—	—	—		
70	2	—	2		
71	1	—	1		
72	1	1	2		
73	1	—	1		
75	—	2	2		
Sum	7	8	15		Per cent { Males: 46.67 Females: 53.33

Fin-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
40	1	—	1	65	9	9	18
43	—	2	2	66	6	15	21
46	—	1	1	67	—	17	17
47	1	2	3	68	1	13	14
48	4	2	6	69	2	9	11
49	4	—	4	70	—	9	9
50	16	23	39	71	—	6	6
51	8	9	17	72	—	1	1
52	19	9	28	73	—	1	1
53	13	12	25	74	—	1	1
54	16	17	33	Sum	274	311	585
55	15	15	30	Average size { Males: 57.55 feet Females: 59.62 „ Total animals: 58.65 „			
56	13	18	31				
57	19	11	30				
58	19	23	42				
59	17	11	28				
60	21	16	37				
61	20	16	36				
62	22	13	35				
63	19	11	30				
64	9	19	28				
				Per cent { Males: 46.84 Females: 53.16			

Table No. 6 (continued).

Humpbacks.

Engl. feet.	Number of		Total animals.	Average size	Per cent
	males.	females.			
33	-	1	1	{ Males: 42.25 feet Females: 39.75 " Total animals: 41.00 "	{ Males: 50.00 Females: 50.00
37	-	1	1		
39	1	-	1		
40	1	-	1		
43	-	1	1		
44	1	-	1		
46	1	1	2		
Sum	4	4	8		

Sei-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
31	-	1	1	47	-	12	12
35	1	1	2	48	-	5	5
36	2	9	11	49	-	2	2
37	5	5	10	Sum	50	95	145
38	3	4	7	Average size { Males: 41.48 feet Females: 42.33 " Total animals: 42.03 "			
39	3	5	8				
40	3	8	11				
41	7	7	14				
42	3	6	9				
43	8	6	14				
44	5	6	11				
45	6	12	18				
46	4	6	10				

Sperm-whales.

Engl. feet.	Number of males.	Engl. feet.	Number of males.
37	3	50	14
39	2	51	18
40	5	52	15
41	1	53	7
43	11	54	5
44	1	55	1
45	5	56	1
46	11	57	1
47	18		
48	13	Sum	148
49	16		

Average size: Males: 48.24 feet.

Table No. 6 (continued).

15. British Columbia.
Blue-whales.

Engl. feet.	Number of		Total animals.	
	males.	females.		
57	1	-	1	Average size { Males: 67.50 feet Females: 77.00 " Total animals: 69.88 "
65	1	-	1	
68	1	-	1	Per cent { Males: 75.00 Females: 25.00
69	1	-	1	
71	1	-	1	
75	1	1	2	
79	-	1	1	
Sum	6	2	8	

Fin-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
43	-	1	1	62	10	10	20
45	1	-	1	63	2	9	11
46	1	-	1	64	2	9	11
47	2	-	2	65	2	5	7
48	3	2	5	66	-	8	8
49	1	1	2	67	-	5	5
50	3	2	5	68	-	1	1
51	3	-	3	69	-	1	1
52	4	3	7	Sum	91	90	181
53	3	2	5	Average size { Males: 56.63 feet Females: 60.54 " Total animals: 58.57 "	Per cent { Males: 50.28 Females: 49.72		
54	5	1	6				
55	6	2	8				
56	12	2	14				
57	6	5	11				
58	7	6	13				
59	6	4	10				
60	5	5	10				
61	7	6	13				

Humpbacks.

32	1	1	2	44	-	4	4
33	1	-	1	45	1	-	1
34	1	-	1	47	-	1	1
35	1	4	5	Sum	23	24	47
36	1	3	4	Average size { Males: 39.35 feet Females: 39.17 " Total animals: 39.26 "	Per cent { Males: 48.94 Females: 51.06		
37	2	1	3				
38	3	4	7				
39	-	1	1				
40	2	1	3				
41	1	-	1				
42	6	3	9				
43	3	1	4				

Table No. 6 (continued).

Sei-whales.

Engl. feet.	Number of		Total animals.
	males.	females.	
36	—	1	1
44	—	2	2
45	1	2	3
46	—	1	1
47	—	—	—
48	—	3	3
49	—	1	1
50	—	3	3
Sum	1	13	14

Average size { Males: 45.00 feet
Females: 46.38 „
Total animals: 46.29 „

Per cent { Males: 7.14
Females: 92.86

Sperm-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
31	—	1	1	47	16	—	16
32	1	1	2	48	11	—	11
33	1	—	1	49	11	—	11
34	1	3	4	50	11	—	11
35	4	—	4	51	6	—	6
36	6	2	8	52	4	—	4
37	7	1	8	53	5	—	5
38	18	—	18	Sum	267	8	275
39	26	—	26	Average size { Males: 43.22 feet Females: 34.25 „ Total animals: 42.96 „			
40	17	—	17				
41	18	—	18				
42	21	—	21				
43	25	—	25				
44	22	—	22				
45	19	—	19				
46	17	—	17				
Per cent { Males: 97.09 Females: 2.91							

16. Kamtchatka.

Blue-whales.

70	2	—	2	82	—	1	1
71	1	2	3	83	—	1	1
72	9	1	10	84	—	1	1
73	3	—	3	Sum	59	42	¹⁾ 101
74	11	1	12	Average size { Males: 74.64 feet Females: 77.52 „ Total animals: 75.84 „			
75	15	4	19				
76	8	7	15				
77	4	7	11				
78	3	4	7				
79	3	7	10				
80	—	3	3				
81	—	3	3				
Per cent { Males: 58.42 Females: 41.58							

¹⁾ In addition 1 blue-whale lost.

Table No. 6 (continued).

Fin-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
55	10	2	12	68	2	6	8
56	15	5	20	69	1	3	4
57	21	7	28	70	-	3	3
58	39	8	47	Sum	319	291	1) 610
59	41	15	56	Average size { Males: 60.19 feet Females: 63.06 " Total animals: 61.56 "			
60	52	21	73				
61	48	31	79				
62	32	29	61				
63	32	28	60				
64	15	45	60				
65	8	36	44				
66	1	30	31				
67	2	22	24				

1) In addition 5 fin-whales lost.

Humpbacks.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.				
	males.	females.			males.	females.					
32	-	1	1	46	1	2	3				
35	2	-	2	47	-	1	1				
36	2	-	2	55	-	1	1				
37	1	1	2	Sum	28	25	53				
38	5	2	7	Average size { Males: 40.00 feet Females: 42.16 " Total animals: 41.02 "							
39	1	2	3								
40	5	2	7								
41	2	1	3								
42	5	5	10								
43	2	3	5								
44	2	3	5								
45	-	1	1								
								Per cent { Males: 52.83 Females: 47.17			

Sei-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
42	1	-	1	Average size { Males: 46.86 feet Females: 48.67 " Total animals: 47.75 "			
43	1	1	2				
44	4	1	5				
45	14	1	15				
46	13	3	16				
47	15	9	24				
48	5	12	17				
49	2	14	16				
50	-	10	10				
51	2	7	9				
52	3	2	5				
53	1	1	2				
54	1	-	1				
55	1	-	1				
Sum	63	61	124				

Table No. 6 (continued).

Sperm-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
31	1	-	1	48	45	-	45
32	-	-	-	49	59	-	59
33	1	-	1	50	71	-	71
34	2	2	4	51	24	-	24
35	-	4	4	52	19	-	19
36	-	1	1	53	6	-	6
37	2	-	2	54	2	-	2
38	85	13	98	55	1	-	1
39	46	-	46	Sum	833	20	1) 853
40	52	-	52	Average size	Males: 44.38 feet Females: 36.90 " Total animals: 44.20 "	Males: 97.66 Females: 2.34	
41	61	-	61				
42	48	-	48				
43	62	-	62	Per cent	Males: 97.66 Females: 2.34		
44	64	-	64				
45	73	-	73				
46	44	-	44				
47	65	-	65				

1) In addition 12 sperm-whales lost.

17. Kuril Islands.**Blue-whales.**

Engl. feet.	Number of		Total animals.	Average size	Per cent
	males.	females.			
70	2	-	2	Males: 73.38 feet Females: 75.50 " Total animals: 73.80 "	Males: 80.00 Females: 20.00
71	1	-	1		
72	-	1	1		
73	2	-	2		
74	1	-	1		
77	1	-	1		
79	1	1	2		
Sum	8	2	10		

Fin-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
51	1	-	1	67	-	3	3
52	-	1	1	68	-	5	5
53	-	-	-	69	1	2	3
54	-	-	-	70	-	2	2
55	18	9	27	71	-	-	-
56	5	5	10	72	-	2	2
57	9	1	10	Sum	100	78	1) 178
58	8	2	10	Average size	Males: 59.39 feet Females: 62.28 " Total animals: 60.66 "	Males: 56.18 Females: 43.82	
59	13	6	19				
60	5	4	9				
61	9	5	14	Per cent	Males: 56.18 Females: 43.82		
62	12	4	16				
63	9	6	15				
64	5	5	10				
65	5	6	11				
66	-	10	10				

1) In addition 1 fin-whale lost.

Table No. 6 (continued).

Humpbacks.

Engl. feet.	Number of		Total animals.	Average size	Per cent
	males.	females.			
40	—	1	1	Males: 42.25 feet Females: 44.00 " Total animals: 42.83 "	Males: 66.67 Females: 33.33
41	2	—	2		
42	1	—	1		
45	1	—	1		
48	—	1	1		
Sum	4	2	6		

Sei-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
40	2	2	4	53	1	1	2
41	3	1	4	54	1	—	1
42	4	1	5	55	2	—	2
43	4	3	7	Sum	50	35	1) 85
44	10	5	15	Average size { Males: 46.08 feet Females: 46.14 " Total animals: 46.11 "	Per cent { Males: 58.82 Females: 41.18		
45	4	3	7				
46	4	6	10				
47	2	1	3				
48	5	5	10				
49	1	3	4				
50	3	1	4				
51	1	1	2				
52	3	2	5				

1) In addition 1 sei-whale lost.

Sperm-whales.

32	1	—	1	49	45	—	45
33	4	3	7	50	49	—	49
34	12	4	16	51	34	—	34
35	331	201	532	52	26	—	26
36	249	85	334	53	7	—	7
37	73	11	84	54	5	—	5
38	50	12	62	55	2	—	2
39	40	6	46	56	2	—	2
40	34	2	36	Sum	1,165	329	1) 1,494
41	35	4	39	Average size { Males: 39.59 feet Females: 35.60 " Total animals: 38.71 "	Per cent { Males: 77.98 Females: 22.02		
42	28	1	29				
43	29	—	29				
44	23	—	23				
45	15	—	15				
46	23	—	23				
47	27	—	27				
48	21	—	21				

1) In addition 27 sperm-whales lost.

Table No. 6 (continued).

18. Japan.
Blue-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.	
	males.	females.			males.	females.		
63	1	-	1	78	1	-	1	
65	1	1	2	79	-	1	1	
66	2	4	6	82	-	1	1	
67	2	-	2	Sum	14	8	22	
69	2	-	2	Average size {	Males: 70.14 feet			
72	1	-	1		Females: 70.75 "			
73	1	-	1		Total animals: 70.36 "			
74	1	-	1		Per cent {	Males: 63.64		
76	1	1	2			Females: 36.36		
77	1	-	1					

Fin-whales.

47	1	-	1	63	5	7	12
50	10	12	22	64	1	7	8
51	14	15	29	65	2	11	13
52	20	8	28	66	-	4	4
53	5	9	14	67	-	2	2
54	5	5	10	68	-	1	1
55	1	3	4	71	-	1	1
56	5	1	6	Sum	142	104	246
57	11	1	12	Average size {	Males: 56.52 feet		
58	11	1	12		Females: 57.45 "		
59	10	1	11		Total animals: 56.91 "		
60	19	7	26		Per cent {	Males: 57.72	
61	13	5	18	Females: 42.28			
62	9	3	12				

Humpbacks.

Engl. feet.	Number of		Total animals.	Average size {	Males: 39.86 feet	
	males.	females.			Females: 50.00 "	
36	3	-	3	Total animals: 41.13 "		
37	1	-	1			
43	1	-	1	Per cent {	Males: 87.50	
45	1	-	1		Females: 12.50	
46	1	-	1			
50	-	1	1			
Sum	7	1	¹⁾ 8			

¹⁾ In addition 1 humpback lost.

Table No. 6 (continued).

Sei-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.	
	males.	females.			males.	females.		
35	8	8	16	48	14	21	35	
36	15	5	20	49	7	9	16	
37	14	10	24	50	1	12	13	
38	17	12	29	51	-	4	4	
39	13	12	25	Sum	315	269	1) 584	
40	28	10	38	Average size { Males: 42.54 feet Females: 43.76 " Total animals: 43.10 " Per cent { Males: 53.94 Females: 46.06				
41	21	13	34					
42	24	21	45					
43	32	25	57					
44	34	28	62					
45	41	25	66					
46	23	21	44					
47	23	33	56					

1) In addition 1 sei-whale lost.

Sperm-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.	
	males.	females.			males.	females.		
35	118	151	269	49	9	-	9	
36	214	168	382	50	13	-	13	
37	121	39	160	51	9	-	9	
38	76	10	86	52	8	-	8	
39	63	4	67	53	4	-	4	
40	39	1	40	54	6	-	6	
41	22	-	22	Sum	812	373	1) 1,185	
42	25	-	25	Average size { Males: 38.83 feet Females: 35.80 " Total animals: 37.88 " Per cent { Males: 68.52 Females: 31.48				
43	20	-	20					
44	12	-	12					
45	11	-	11					
46	13	-	13					
47	13	-	13					
48	16	-	16					

1) In addition 1 sperm-whale lost.

Table No. 6 (continued).

19. Summary Pacific North.
(British Columbia, Kamtchatka, Kuril Islands, and Japan.)
Blue-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
57	1	-	1	79	4	10	14
63	1	-	1	80	-	3	3
65	2	1	3	81	-	3	3
66	2	4	6	82	-	2	2
67	2	-	2	83	-	1	1
68	1	-	1	84	-	1	1
69	3	-	3				
70	4	-	4	Sum	87	54	¹⁾ 141
71	3	2	5				
72	10	2	12	Average size	{ Males: 73.31 feet Females: 76.43 " Total animals: 74.50 "		
73	6	-	6	Per cent	{ Males: 61.70 Females: 38.30		
74	13	1	14				
75	16	5	21				
76	9	8	17				
77	6	7	13				
78	4	4	8				

¹⁾ In addition 1 blue-whale lost.**Fin-whales.**

43	-	1	1	63	48	50	98
45	1	-	1	64	23	66	89
46	1	-	1	65	17	58	75
47	3	-	3	66	1	52	53
48	3	2	5	67	2	32	34
49	1	1	2	68	2	13	15
50	13	14	27	69	2	6	8
51	18	15	33	70	-	5	5
52	24	12	36	71	-	1	1
53	8	11	19	72	-	2	2
54	10	6	16	Sum	652	563	¹⁾ 1,215
55	35	16	51				
56	37	13	50	Average size	{ Males: 58.77 feet Females: 61.51 " Total animals: 60.04 "		
57	47	14	61	Per cent	{ Males: 53.66 Females: 46.34		
58	65	17	82				
59	70	26	96				
60	81	37	118				
61	77	47	124				
62	63	46	109				

¹⁾ In addition 6 fin-whales lost.**Humpbacks.**

32	1	2	3	46	2	2	4
33	1	-	1	47	-	2	2
34	1	-	1	48	-	1	1
35	3	4	7	49	-	-	-
36	6	3	9	50	-	1	1
37	4	2	6	55	-	1	1
38	8	6	14	Sum	62	52	¹⁾ 114
39	1	3	4				
40	7	4	11	Average size	{ Males: 39.89 feet Females: 41.00 " Total animals: 40.39 "		
41	5	1	6	Per cent	{ Males: 54.39 Females: 45.61		
42	12	8	20				
43	6	4	10				
44	2	7	9				
45	3	1	4				

¹⁾ In addition 1 humpback lost.

Table No. 6 (continued).

Sei-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
35	8	8	16	49	10	27	37
36	15	6	21	50	4	26	30
37	14	10	24	51	3	12	15
38	17	12	29	52	6	4	10
39	13	12	25	53	2	2	4
40	30	12	42	54	2	-	2
41	24	14	38	55	3	-	3
42	29	22	51	Sum	429	378	1) 807
43	37	29	66	Average size { Males: 43.59 feet			
44	48	36	84	{ Females: 44.86 "			
45	60	31	91	{ Total animals: 44.19 "			
46	40	31	71	Per cent { Males: 53.16			
47	40	43	83	{ Females: 46.84			
48	24	41	65				

1) In addition 2 sei-whales lost.

Sperm-whales.

31	1	1	2	49	124	-	124
32	2	1	3	50	144	-	144
33	6	3	9	51	73	-	73
34	15	9	24	52	57	-	57
35	453	356	809	53	22	-	22
36	469	256	725	54	13	-	13
37	203	51	254	55	3	-	3
38	229	35	264	56	2	-	2
39	175	10	185	Sum	3,077	730	1) 3,807
40	142	3	145	Average size { Males: 41.00 feet			
41	136	4	140	{ Females: 35.72 "			
42	122	1	123	{ Total animals: 39.98 "			
43	136	-	136	Per cent { Males: 80.82			
44	121	-	121	{ Females: 19.18			
45	118	-	118				
46	97	-	97				
47	121	-	121				
48	93	-	93				

1) In addition 40 sperm-whales lost.

20. Chile.

Blue-whales.

65	8	5	13	80	1	9	10
66	4	-	4	81	-	3	3
67	-	1	1	82	1	7	8
68	4	1	5	83	-	2	2
69	4	2	6	84	1	-	1
70	6	1	7	89	-	1	1
71	5	4	9	Sum	88	82	1) 170
72	17	3	20	Average size { Males: 72.09 feet			
73	5	1	6	{ Females: 76.27 "			
74	17	8	25	{ Total animals: 74.11 "			
75	3	4	7	Per cent { Males: 51.76			
76	7	8	15	{ Females: 48.24			
77	4	7	11				
78	-	3	3				
79	1	12	13				

1) In addition 2 blue-whales with length and sex not stated.

Table No. 6 (continued).

Fin-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
49	1	-	1	66	1	1	2
50	10	5	15	68	1	-	1
51	9	11	20	69	-	1	1
52	3	7	10	74	-	2	2
53	16	14	30	76	-	2	2
54	12	9	21	77	-	1	1
55	9	9	18	Sum	122	115	1) 237
56	21	12	33	Average size { Males: 55.48 feet Females: 56.29 .. Total animals: 55.87 ..			
57	10	15	25				
58	4	6	10				
59	11	8	19				
60	7	2	9				
61	3	7	10				
62	3	2	5				
63	1	-	1				
65	-	1	1				

1) In addition 46 fin-whales with length and sex not stated.

Humpbacks.

1 male, 44 feet. (In addition 20 humpbacks with length and sex not stated.)

Sei-whales.

36	1	-	1	50	1	-	1				
37	-	1	1	51	1	1	2				
39	-	1	1	53	-	1	1				
40	1	-	1	Sum	11	13	24				
41	1	-	1	Average size { Males: 44.27 feet Females: 44.92 .. Total animals: 44.63 ..							
43	2	4	6								
44	1	1	2								
45	2	-	2								
46	-	1	1								
47	-	2	2								
48	-	1	1								
49	1	-	1								
								Per cent { Males: 45.83 Females: 54.17			

Sperm-whales.

35	45	139	184	51	17	-	17				
36	28	73	101	52	4	-	4				
37	10	5	15	53	19	-	19				
38	21	5	26	54	7	-	7				
39	31	1	32	55	2	-	2				
40	14	2	16	59	1	-	1				
41	20	-	20	61	1	-	1				
42	11	-	11	Sum	359	225	1) 584				
43	28	-	28	Average size { Males: 42.78 feet Females: 35.50 .. Total animals: 39.98 ..							
44	18	-	18								
45	14	-	14								
46	21	-	21								
47	11	-	11								
48	13	-	13								
49	16	-	16								
50	7	-	7								
								Per cent { Males: 61.47 Females: 38.53			

1) In addition 114 sperm-whales with length and sex not stated.

Table No. 6 (continued).

21. Australia.

Fin-whale.

1 male, 63 feet.

Humpbacks.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
29	—	1	1	45	18	33	51
30	—	2	2	46	4	31	35
31	1	3	4	47	—	19	19
32	3	2	5	48	—	8	8
33	4	2	6	49	—	2	2
34	3	1	4	50	—	1	1
35	59	43	102				
36	71	46	117	Sum	1,242	753	1) 1,995
37	111	45	156				
38	161	68	229	Average size	{ Males: 39.60 feet		
39	192	74	266		{ Females: 40.69 "		
40	169	55	224		{ Total animals: 40.01 "		
41	159	78	237	Per cent	{ Males: 62.26		
42	162	86	248		{ Females: 37.74		
43	88	84	172				
44	37	69	106				

1) In addition 5 humpbacks with sex not stated.

22. New Zealand.

Humpbacks.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
34	—	1	1	46	3	4	7
35	7	6	13	47	1	3	4
36	5	4	9	48	2	2	4
37	1	2	3	49	—	2	2
38	1	—	1	Sum	57	52	109
39	5	2	7				
40	—	8	8	Average size	{ Males: 41.23 feet		
41	3	4	7		{ Females: 41.42 "		
42	8	2	10		{ Total animals: 41.32 "		
43	12	5	17	Per cent	{ Males: 52.29		
44	6	3	9		{ Females: 47.71		
45	3	4	7				

Table No. 7.—Average production of oil per “blue-whale unit” in the summer season 1953.

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 equivalents.	Oil production.	
			Total.	Average per blue-whale equivalent.
			Barrels. ¹⁾	Barrels. ¹⁾
<i>Africa:—</i>				
Natal	No. 1	277.1	26,942	97.2
Cape Province	„ 1	109.8	7,187	65.5
Spanish Morocco	„ 1	6.0	321	53.5
Total		392.9	34,450	87.7
<i>Brazil</i>	No. 1	34.8	2,590	74.4
	„ 2	2.5	202	80.8
Total		37.3	2,792	74.9
<i>North Atlantic and Arctic:—</i>				
Madeira	No. 1	1.0	74	74.0
Spain	„ 1	11.0	524	47.6
	„ 2	—	—	—
Norway	„ 1	28.0	1,829	65.3
	„ 2	57.5	3,569	62.1
	„ 3	36.0	2,592	72.0
	„ 4	32.6	1,931	59.2
Faroe Islands	„ 1	26.5	1,350	50.9
	„ 2	23.9	1,291	54.0
Iceland	„ 1	121.0	7,494	61.9
West Greenland	„ 1	8.9	165	18.5
Newfoundland	„ 1	0.5	35 ³⁾	70.0
Total ⁴⁾		346.9	20,854	60.1
<i>Pacific North:—</i>				
British Columbia	No. 1	119.6	8,426	70.5
Kamtchatka, pelagic	„ 1	358.1	29,123	81.3
	„ 2	89.7	6,177	68.9
Kuril Islands	„ 1	115.6	8,061	69.7
Japan	„ 1	97.4	3,164	32.5
	„ 2	82.0	2,645	32.3
	„ 3	36.5	1,050	28.8
	„ 4	19.5	470	24.1
	„ 5	10.2	311	30.5
Total		928.6	59,427	64.0
<i>Peru</i>	No. 1	— ²⁾	—	—
	„ 2	— ²⁾	—	—
Total		—	—	—
<i>Chile</i>	No. 1	292.9	11,517	39.3
	„ 2	33.0	2,142	—
Total		325.9	13,659	39.3
<i>Australia</i>	No. 1	240.0	30,600	127.5
	„ 2	240.0	30,352	126.5
	„ 3	280.0	36,000	128.6
	„ 4	40.5	5,239	120.0
Total		800.5	102,191	127.9
<i>New Zealand</i>	No. 1	43.6	4,560	104.6

¹⁾ Barrel = 170 kg. (Barrel = abt. $\frac{1}{6}$ long ton, 1 long ton = 1,016 kg.) ²⁾ No information received.

³⁾ Calculated. ⁴⁾ Without figures from the Spanish company no. 2.

**Table No. 8.—Average production of oil per sperm-whale
in the summer season 1953.**

Geographical areas.	Company.	Number of sperm-whales.	Oil production.	
			Total.	Average per sperm-whale.
			Barrels. ¹⁾	Barrels. ¹⁾
<i>Africa:—</i>				
Natal	No. 1	353	12,371	35.0
Cape Province	„ 1	246	6,794	27.6
Spanish Morocco	„ 1	13	216	16.6
Total		612	19,381	31.7
<i>Brazil</i>	No. 1	1	45	45.0
<i>North Atlantic and Arctic:—</i>				
Azores	No. 1	528	12,661	24.0
Madeira	„ 1	107	3,079	28.8
Spain	„ 1	19	355	18.7
	„ 2	²⁾ —	—	—
Norway	„ 1	10	570	57.0
	„ 2	34	1,773	52.1
Faroe Islands	„ 1	33	1,075	32.6
	„ 2	19	841	44.3
Iceland	„ 1	48	2,630	54.8
West Greenland	„ 1	4	112	28.0
Total ³⁾		802	23,096	28.8
<i>Pacific North:—</i>				
British Columbia	No. 1	275	9,829	35.7
Kamtschatka, pelagic	„ 1	853	35,316	41.4
Kuril Islands	„ 1	1,494	34,525	23.1
Japan	„ 1	432	8,781	20.3
	„ 2	422	8,909	21.1
	„ 3	183	2,918	15.9
	„ 4	77	1,423	18.5
	„ 5	71	1,691	23.8
Total		3,807	103,392	27.2
<i>Peru</i>	No. 1	²⁾ —	—	—
	„ 2	²⁾ —	—	—
Total		—	—	—
<i>Chile</i>	No. 1	584	13,324	22.8
	„ 2	—	3,186	—
Total		—	16,510	—

¹⁾ Barrel = 170 kg. (Barrel = abt. $\frac{1}{6}$ long ton, 1 long ton = 1,016 kg.) ²⁾ No information received.

³⁾ Without figures from the Spanish company no. 2.

Table No. 9.—Whale foetuses measured in the summer season 1953.

Blue-whale foetuses.

Geographical areas.	Date when measured.	Length.		Sex.	Geographical areas.	Date when measured.	Length.		Sex.
		Mother.	Foetus.				Mother.	Foetus.	
		Engl. ft.	Engl. ft.				Engl. ft.	Engl. ft.	
<i>Kamchatka.</i>	5/7	76	6' 1"	F	<i>Kamchatka</i>	11/9	82	6' 7"	F
Average length of foetuses:	29/7	76	8' 0"	M	(cont.).	26/9	80	16' 5"	F
10' 2"	30/7	72	6' 8"	M		27/9	81	15' 7"	F
	4/9	76	6' 11"	F		12/7	76	5' 3"	M
	6/9	81	13' 0"	M					
	9/9	79	16' 6"	F	<i>Chile.</i>	13/1	79	8' 10"	M
	11/9	79	10' 8"	F					

Fin-whale foetuses.

	Date when measured.	Length.		Sex.		Date when measured.	Length.		Sex.
		Mother.	Foetus.				Mother.	Foetus.	
		Engl. ft.	Engl. ft.				Engl. ft.	Engl. ft.	
<i>Natal.</i>	2 ¹ / ₈	74	18' 0"	F	<i>British Columbia</i>	30/1	54	0' 6"	F
<i>Cape Province.</i>	11/7	75	11' 3"	F	(cont.).	6/5	66	2' 8"	M
<i>Spanish Morocco.</i>						7/5	62	4' 3"	F
Average length of foetuses:	10/5	66	16' 4"	M		10/5	61	1' 6"	F
19' 7"	7/6	69	22' 10"	F		12/5	64	1' 6"	M
						25/5	63	1' 3"	F
<i>Norway.</i>						28/5	67	3' 6"	F
Average length of foetuses:	12/5	58	2' 7"	M		12/6	65	5' 6"	F
3' 3"	14/5	71	0' 7"	F		18/6	57	1' 0"	F
	3/7	65	3' 8"	F		27/6	63	2' 1"	M
	11/5	53	0' 7"	?		15/7	62	0' 3"	M
	29/6	64	9' 0"	F		23/7	62	4' 11"	M
<i>Faroe Islands.</i>						13/8	59	8' 4"	M
Average length of foetuses:	4/6	61	3' 0"	M		27/8	65	10' 0"	M
3' 11"	8/6	69	6' 0"	M		27/8	67	12' 0"	M
	11/6	69	1' 0"	F		2/9	64	7' 1"	M
	18/6	69	7' 0"	M		7/9	67	13' 6"	F
	23/6	64	0' 4"	M		10/9	62	15' 0"	M
	1/8	66	6' 0"	M		11/9	65	13' 9"	F
<i>Iceland.</i>						12/9	66	7' 4"	M
Average length of foetuses:	3/6	70	2' 6"	M	<i>Kamchatka.</i>	13/9	63	6' 5"	F
5' 6"	3/7	67	8' 0"	M	Average length of foetuses:	14/5	69	3' 11"	F
	18/7	66	6' 0"	M	6' 0"	20/5	66	3' 3"	F
<i>West Greenland.</i>						23/5	60	3' 6"	M
Average length of foetuses:	2/8	62	6' 5"	F		23/5	66	2' 8"	F
5' 8"	28/8	62	4' 2"	M		23/5	66	4' 2"	F
	2/9	52	6' 5"	F		23/5	66	4' 0"	M
<i>British Columbia.</i>						23/5	61	4' 0"	M
Average length of foetuses:	12/1	66	3' 0"	F		23/5	61	3' 0"	M
5' 1"	16/1	59	1' 7"	F		24/5	65	2' 10"	M
	23/1	63	1' 2"	F		24/5	60	2' 10"	M
	21/4	66	3' 4"	M		25/5	67	4' 1"	F
	21/4	63	2' 0"	M		25/5	67	4' 1"	F
	28/4	61	2' 0"	F		26/5	64	1' 1"	F
	28/4	64	1' 1"	M		26/5	64	1' 1"	F
						27/5	59	1' 7"	M
						27/5	64	4' 0"	F
						27/5	62	3' 0"	M
						28/5	61	3' 0"	M
						29/5	69	3' 7"	M

Table No. 9 (continued).

Geographical areas.	Date when measured.	Length.		Sex.	Geographical areas.	Date when measured.	Length.		Sex.
		Mother.	Foetus.				Mother.	Foetus.	
		Engl. ft.	Engl. ft.			Engl. ft.	Engl. ft.		
<i>Kamtchatka</i> (cont.).	31/5	65	4' 6"	F	<i>Kamtchatka</i> (cont.).	8/7	61	8' 0"	F
	"	65	5' 0"	M		"	63	8' 1"	M
	"	67	0' 6"	F		"	60	3' 6"	M
	1/6	61	4' 6"	M		9/7	64	5' 6"	M
	"	61	2' 0"	F		11/7	67	6' 8"	F
	2/6	63	4' 9"	F		12/7	67	4' 10"	M
	"	65	4' 8"	F		"	63	7' 4"	M
	"	70	5' 9"	F		"	62	7' 2"	F
	3/6	60	1' 10"	M		13/7	66	6' 4"	F
	"	66	2' 1"	F		"	67	8' 2"	F
	4/6	66	3' 2"	F		14/7	61	4' 10"	M
	5/6	68	6' 0"	M		18/7	70	8' 3"	F
	"	60	4' 8"	F		"	66	6' 8"	M
	6/6	66	4' 3"	F		19/7	66	4' 0"	F
	7/6	63	5' 2"	F		20/7	63	4' 6"	M
	8/6	63	5' 5"	F		"	65	5' 3"	F
	9/6	64	5' 9"	M		27/7	61	9' 10"	F
	"	67	6' 7"	M		"	63	5' 5"	M
	"	65	3' 7"	M		28/7	66	7' 4"	M
	10/6	64	3' 5"	F		29/7	68	9' 9"	M
	11/6	65	3' 9"	M		"	67	5' 5"	F
	"	64	4' 8"	F		"	62	8' 9"	F
	12/6	66	8' 8"	M		"	65	8' 8"	M
	"	61	1' 4"	M		"	64	10' 6"	F
	"	64	4' 2"	F		"	60	4' 10"	F
	13/6	59	3' 10"	F		30/7	65	2' 10"	M
	14/6	62	5' 7"	M		"	62	6' 6"	F
	15/6	67	4' 5"	M		"	66	{ 11' 5"	M
	"	60	5' 0"	F		2/8	"	{ 9' 4"	F
	"	65	7' 2"	F		3/8	63	8' 5"	M
	16/6	62	5' 2"	F		"	65	9' 2"	M
	"	63	4' 5"	M		"	58	4' 9"	F
	17/6	66	5' 6"	M		"	64	7' 8"	M
	"	60	6' 1"	F		21/8	63	9' 10"	F
	18/6	67	2' 5"	M		25/8	61	10' 5"	M
	"	64	4' 9"	M		28/8	63	11' 6"	F
	20/6	62	4' 8"	M		31/8	63	11' 1"	F
	"	66	2' 11"	M		4/9	59	10' 4"	M
	27/6	66	5' 5"	F		"	65	12' 5"	M
	"	63	6' 11"	F		5/9	64	4' 6"	F
	"	68	6' 8"	M		"	66	7' 6"	F
	"	63	7' 4"	M		8/9	64	13' 5"	F
	"	64	3' 5"	F		11/9	63	5' 4"	M
	28/6	64	5' 9"	M		13/9	65	8' 2"	F
	29/6	65	7' 5"	F		"	66	7' 1"	M
	30/6	59	3' 1"	F		15/9	65	15' 0"	F
	1/7	61	5' 3"	M		"	68	11' 1"	M
"	67	9' 9"	F	"	66	10' 0"	M		
"	59	2' 2"	F	16/9	62	5' 10"	M		
"	65	5' 3"	M	"	66	14' 4"	F		
"	64	4' 6"	F	18/9	60	7' 3"	M		
2/7	61	6' 3"	M	23/9	65	9' 9"	F		
5/7	64	2' 7"	F	26/9	65	14' 2"	F		
6/7	65	5' 7"	M	27/9	67	11' 5"	F		
"	61	5' 4"	F	10/10	64	15' 8"	F		
"	65	6' 3"	M						
7/7	65	5' 5"	F						
"	62	3' 3"	M						

Table No. 9 (continued).

Geographical areas.	Date when measured.	Length.		Sex.	Geographical areas.	Date when measured.	Length.		Sex.
		Mother.	Foetus.				Mother.	Foetus.	
<i>Japan.</i>	18 ⁵ / ₅	64	4' 6"	M	<i>Chile.</i>				
Average length of foetuses:	29 ⁶ / ₆	61	2' 7"	F	Average length of foetuses:	27 ² / ₂	53	19' 0"	M
4' 6"	25 ⁷ / ₇	66	9' 0"	F					
	11 ⁸ / ₈	65	2' 7"	M					
	21 ⁸ / ₈	60	4' 0"	M					

Humpback foetuses.

<i>Natal.</i>	20 ⁷ / ₇	45	15' 0"	F	<i>Australia</i>	24 ⁷ / ₇	43	13' 6"	M
Average length of foetuses:	5 ⁸ / ₈	43	13' 0"	F	(cont.)	"	43	15' 9"	F
14' 0"	9 ⁸ / ₈	42	14' 0"	M		25 ⁷ / ₇	46	15' 3"	F
<i>British Columbia.</i>	9 ⁵ / ₅	44	0' 7"	M		"	45	8' 4"	M
Average length of foetuses:	"	57	0' 7"	F		28 ⁷ / ₇	43	15' 3"	F
2' 1"	17 ⁵ / ₅	42	0' 6"	?		29 ⁷ / ₇	44	10' 8"	M
	14 ⁶ / ₆	43	1' 2"	M		30 ⁷ / ₇	47	14' 9"	M
	27 ⁶ / ₆	47	2' 0"	M		"	47	14' 2"	M
	12 ⁷ / ₇	40	1' 8"	F		"	48	14' 7"	M
	13 ⁷ / ₇	44	1' 9"	F		31 ⁷ / ₇	46	14' 8"	M
	26 ⁷ / ₇	35	3' 8"	M		1 ⁸ / ₈	44	14' 0"	M
	23 ⁹ / ₉	42	6' 10"	F		"	43	12' 6"	F
<i>Kamtchatka.</i>	12 ⁶ / ₆	43	2' 0"	M		2 ⁸ / ₈	39	14' 3"	M
Average length of foetuses:	24 ⁶ / ₆	42	1' 11"	F		4 ⁸ / ₈	42	13' 10"	F
4' 3"	17 ⁷ / ₇	46	4' 3"	M		5 ⁸ / ₈	38	9' 8"	F
	6 ⁹ / ₉	46	5' 1"	M		6 ⁸ / ₈	41	12' 0"	F
	25 ⁹ / ₉	39	8' 0"	M		"	41	13' 2"	F
<i>Australia.</i>	17 ⁶ / ₆	40	12' 8"	M		"	40	14' 8"	F
Average length of foetuses:	19 ⁶ / ₆	41	11' 1"	M		7 ⁸ / ₈	44	13' 7"	M
12' 2"	21 ⁶ / ₆	45	13' 0"	F		8 ⁸ / ₈	42	12' 9"	M
	26 ⁶ / ₆	44	14' 10"	M		9 ⁸ / ₈	44	14' 0"	F
	28 ⁶ / ₆	41	13' 9"	M		"	44	13' 7"	M
	2 ⁷ / ₇	44	14' 5"	F		10 ⁸ / ₈	41	14' 1"	F
	3 ⁷ / ₇	44	14' 0"	F		"	44	13' 6"	F
	"	47	15' 5"	M		12 ⁸ / ₈	42	14' 2"	F
	"	43	12' 0"	M		"	42	13' 6"	M
	6 ⁷ / ₇	44	15' 4"	F		13 ⁸ / ₈	42	14' 6"	M
	"	47	14' 1"	M		14 ⁸ / ₈	43	14' 1"	F
	"	46	12' 9"	F		15 ⁸ / ₈	43	12' 10"	M
	7 ⁷ / ₇	46	14' 5"	M		"	46	15' 0"	F
	8 ⁷ / ₇	44	14' 4"	M		16 ⁸ / ₈	48	14' 4"	F
	"	43	14' 4"	F		18 ⁸ / ₈	44	13' 6"	F
	9 ⁷ / ₇	41	13' 9"	M		20 ⁸ / ₈	45	13' 10"	M
	10 ⁷ / ₇	42	12' 10"	F		21 ⁸ / ₈	43	11' 0"	M
	"	39	12' 0"	F		"	41	14' 0"	M
	11 ⁷ / ₇	43	14' 5"	M		22 ⁸ / ₈	46	14' 3"	M
	"	45	14' 9"	F		"	41	13' 0"	M
	12 ⁷ / ₇	44	12' 3"	M		24 ⁸ / ₈	41	13' 4"	M
	14 ⁷ / ₇	45	11' 0"	M		26 ⁸ / ₈	42	13' 3"	M
	16 ⁷ / ₇	47	14' 9"	M		"	39	11' 5"	F
	17 ⁷ / ₇	46	15' 8"	F		"	38	13' 11"	F
	19 ⁷ / ₇	44	13' 10"	F		28 ⁸ / ₈	43	15' 0"	M
	"	47	11' 9"	F		31 ⁸ / ₈	40	13' 4"	F
	20 ⁷ / ₇	43	12' 3"	M		"	40	0' 1 ² / ₂ "	?
	21 ⁷ / ₇	41	12' 9"	M		1 ⁹ / ₉	49	0' 1 ² / ₂ "	?
	"	41	13' 10"	M		2 ⁹ / ₉	43	0' 3 ² / ₄ "	?
	"	41	13' 10"	M		"	42	0' 3 ² / ₈ "	?
	"	41	13' 10"	M		"	44	13' 9"	M
	"	41	13' 10"	M		3 ⁹ / ₉	45	13' 4"	M
	"	41	13' 10"	M		"	40	15' 3"	M

Table No. 9 (continued)

Geographical areas.	Date when measured.	Length.		Sex.	Geographical areas.	Date when measured.	Length.		Sex.
		Mother.	Foetus.				Mother.	Foetus.	
<i>Australia</i> (cont.).	4/9	44	13' 7"	F	<i>New Zealand.</i> Average length of foetuses: 13' 11"	30/5	47	12' 0"	F
	5/9	44	14' 4"	F		10/7	45	13' 2"	F
	6/9	45	13' 7"	F		11/7	41	12' 2"	M
	"	46	0' 3/8"	?		14/7	45	16' 3"	F
	"	44	0' 3/8"	?		15/7	47	16' 6"	M
	8/9	45	0' 1 1/2"	?		24/7	49	13' 4"	M
	11/9	42	0' 3/16"	?					
	15/9	41	0' 1/4"	?					
	16/9	43	13' 7"	M					

Sperm-whale foetuses.

<i>Natal.</i> Average length of foetuses: 5' 5"	23/5	35	4' 0"	M	<i>Kamtcharka.</i> Average length of foetuses: 11' 10"	27/5	38	11' 10"	F
	3/6	35	3' 0"	M		"	38	10' 2"	M
	10/6	35	4' 0"	F		"	38	13' 6"	M
	25/7	37	7' 0"	M					
	"	36	9' 0"	F					
<i>Cape Province.</i> Average length of foetuses: 7' 4"	10/5	36	6' 6"	?	<i>Japan.</i> Average length of foetuses: 7' 5"	23/4	35	9' 4"	M
	10/6	37	7' 6"	M		27/4	36	10' 0"	F
	"	36	4' 11"	?		28/4	35	11' 5"	F
	"	37	5' 7"	M		6/5	35	5' 5"	F
	2/8	35	9' 3"	M		20/5	35	12' 2"	F
	3/8	38	8' 2"	F		14/6	36	0' 10"	F
	6/8	35	8' 9"	F		28/6	35	0' 10"	M
	"	37	8' 4"	M		22/7	35	13' 4"	F
	11/8	38	4' 3"	M		23/7	36	12' 5"	F
	"	37	9' 6"	F		27/7	35	13' 5"	M
	"	35	7' 8"	F		"	35	11' 0"	M
						1/8	36	3' 0"	F
						24/8	35	1' 8"	F
				26/8	35	10' 5"	F		
<i>British Columbia.</i> Average length of foetuses: 9' 10"	10/5	34	10' 6"	M	28/8	35	1' 9"	M	
	16/5	34	11' 0"	F	22/9	35	3' 9"	M	
	"	36	8' 0"	F	30/9	36	12' 5"	F	
					4/10	37	4' 0"	F	
					17/10	38	4' 5"	F	
					1/11	35	3' 6"	F	
				8/11	36	10' 4"	F		

Sei-whale foetuses.

<i>Cape Province.</i> Average length of foetuses: 1' 5"	5/6	53	7' 3"	F	<i>Cape Province</i> (cont.).	9/9	53	1' 8"	M
	21/6	50	1' 3"	M		11/9	52	0' 10"	F
	1/8	53	0' 7"	M		"	48	0' 2"	M
	"	52	0' 6"	M		18/9	51	1' 1"	F
	16/8	55	8' 0"	F		19/9	53	0' 7"	F
	18/8	50	0' 9"	M		2/10	54	2' 2"	M
	20/8	51	0' 5"	F		3/10	53	1' 6"	M
	23/8	52	0' 8"	M		4/10	52	1' 8"	F
	31/8	49	0' 6"	M		8/10	52	1' 9"	F
	1/9	56	0' 9"	M		10/10	52	0' 9"	M
	"	55	1' 3"	M		"	53	1' 7"	M
	2/9	56	0' 5"	M		"	52	0' 7"	F
	8/9	51	1' 6"	F		12/10	49	1' 0"	M
	"	51	1' 4"	M		13/10	54	1' 9"	M

Table No. 9 (continued).

Geographical areas.	Date when measured.	Length.		Sex	Geographical areas.	Date when measured.	Length.		Sex
		Mother.	Foetus.				Mother.	Foetus.	
<i>Cape Province</i> (cont.).	13/10	51	1' 8"	F	<i>Kamtschatka</i> (cont.).	23/8	47	7' 0"	F
	14/10	52	2' 2"	M		21/8	48	9' 7"	M
	"	56	1' 9"	M		"	47	8' 0"	M
	"	57	0' 4"	M		"	48	6' 6"	F
	15/10	50	0' 6"	F		"	48	6' 4"	F
	"	53	1' 1"	F		"	46	10' 0"	M
<i>Spanish Morocco.</i>	16/10	51	0' 8"	M	"	50	7' 9"	M	
	19/4	49	9' 9"	M	25/8	47	8' 8"	F	
<i>Faroe Islands.</i> Average length of foetuses: 2' 6"	11/6	43	2' 6"	M	"	49	7' 10"	M	
	13/6	49	3' 0"	M	29/8	50	3' 0"	F	
	"	41	2' 0"	M	"	48	9' 0"	M	
	"	45	2' 6"	M	"	47	9' 3"	M	
<i>Iceland.</i>	27/8	45	11' 0"	F	30/8	49	10' 10"	M	
	"	"	"	"	"	49	8' 9"	F	
<i>British Columbia.</i> Average length of foetuses: 2' 2"	5/5	45	0' 6"	?	"	50	8' 1"	F	
	"	44	1' 10"	M	"	48	10' 5"	F	
	"	50	2' 8"	M	31/8	48	9' 2"	M	
	12/5	44	2' 6"	F	18/9	50	11' 8"	F	
	17/5	50	3' 0"	F	26/9	47	10' 4"	F	
<i>Kamtschatka.</i> Average length of foetuses: 8' 4"	23/5	48	1' 10"	M	<i>Japan.</i> Average length of foetuses: 7' 11"	6/5	44	4' 6"	M
	7/6	48	2' 11"	F		17/5	46	1' 6"	M
	4/6	47	1' 9"	M		19/5	44	1' 9"	M
	23/6	49	6' 6"	F		25/6	47	4' 9"	F
	2/7	49	5' 4"	F		9/7	44	13' 0"	M
	3/8	49	8' 9"	M		29/9	45	10' 3"	M
	6/8	51	10' 3"	F		30/9	45	12' 3"	M
	21/8	46	8' 7"	M		2/10	49	9' 0"	M
	23/8	49	9' 7"	M		5/10	44	9' 1"	M
	"	52	10' 8"	F		15/10	48	10' 7"	F
"	48	8' 7"	F	19/10	43	10' 6"	M		
					<i>Chile.</i>	21/2	48	10' 10"	M

Bryde-whale foetus.

Geographical areas.	Date when measured.	Length.		Sex.
		Mother.	Foetus.	
<i>Cape Province.</i>	15/8	46	4' 0"	M