

DET NORSKE HVALRÅDS STATISTISKE PUBLIKASJONER

INTERNATIONAL  
WHALING STATISTICS

XXI

EDITED BY

THE COMMITTEE FOR WHALING STATISTICS



OSLO 1949

*Price: kr. 2.00.*

DET NORSKE HVALRÅDS STATISTISKE PUBLIKASJONER

INTERNATIONAL  
WHALING STATISTICS

XXI

EDITED BY

THE COMMITTEE FOR WHALING STATISTICS



OSLO 1949

PRINTED BY  
GRØNDAHL & SØN  
OSLO

## CONTENTS

Preface .....	Page 5
Introduction.....	,, 7
Table No. 1.—Whaling in 1946/47 and summer 1947 .....	,, 25
Table No. 2.—Norwegian whaling in 1946/47 and summer 1947 .....	,, 25
Table No. 3.—British whaling in 1946/47 and summer 1947.....	,, 26
Table No. 4.—Whaling results for the various countries in 1946/47 and summer 1947 .....	,, 26
Table No. 5.—Average size of whales caught in the summer-season 1947.....	,, 26
Table No. 6.—Whales caught in the summer-season 1947, by species, sex and size .....	,, 31
Coast of Norway .....	,, 31
Faroe Islands.....	,, 33
Coast of West Greenland.....	,, 34
New Foundland.....	,, 35
Coast of Natal .....	,, 39
Cape Colony .....	,, 40
Coast of Chile .....	,, 44
Coast of Peru, pelagic .....	,, 46
California.....	,, 47
Coast of Japan .....	,, 48
Bonin Island, pelagic .....	,, 49
Coast of West Australia .....	,, 52
Table No. 7.—Average production of oil per “blue-whale equivalent” in the summer-season 1947 .....	,, 53
Table No. 8.—Average production of oil per sperm-whale in the summer-season 1947 .....	,, 53
Table No. 9.—Whale fetuses measured in the summer-season 1947.....	,, 54



## PREFACE

The present publication (No. XXI) contains statistics for the Antarctic season 1946–47 and for the whaling on other grounds during 1947. International Whaling Statistics No. XIX concerned whaling in the Antarctic 1945–46 and on other grounds in 1946, but since its publication the Committee has received additional information concerning the catch from British Columbia, Kamtchatka, the Faroe Islands and New Zealand. These data have been included in the tables in the present volume and the previous totals have been corrected accordingly. In the introduction will be found special remarks about the corrections made.

According to newspaper reports the Sovjet-Russian floating factory “Aleut” has been operating off Kamtchatka during 1947, and a Brazilian company off the coast of Brazil. The Committee has not succeeded in obtaining statistics concerning these operations, but otherwise publication No. XXI should contain complete information about all whaling in the Antarctic 1946–47 and on other grounds for 1947.

The Committee desires once more to request all active whaling companies to send in statistical data on their whaling results and the floating factories and catchers engaged, in accordance with the rules laid down in the International Whaling Agreement.

Oslo, 20th March 1949.

*Gunnar Jahn.*

*Birger Bergersen.*

*Harald B. Paulsen.*



## INTRODUCTION

As mentioned in previous volumes of International Whaling Statistics, preparations to resume the whaling activity were taken up already before the end of the war. The world was greatly in need of fats and it was therefore of the greatest importance to resume the oil production as soon as possible. The floating factories and catchers which survived the war were repaired and re-converted and new factory ships and catchers were built to replace the lost whaling fleet. As the Antarctic whaling yields the largest output of oil, it was natural in the first place to concentrate on the rehabilitation of the Antarctic whaling. In waters outside the Antarctic, whaling activity has been gradually resumed, though at a less rapid rate.

During the season 1945-46 3 shore stations, 9 floating factories and 93 catchers participated in the Antarctic whaling, and 818,652 barrels of oil were produced. During the season 1946-47 3 shore stations, 15 floating factories and 147 catchers were engaged, and the oil production amounted to 1,939,742 barrels. It will be observed that the increase in the oil production is greater than might be expected from the increase in the whaling fleet. This is due to the fact that during the season 1946-47 all floating factories but one commenced operations on the opening day—December 8th—and the factories had practically full equipment of catchers from the start. As regards the season 1945-46, owing to the comprehensive repairs, only one floating factory commenced activity on the opening day—November 24th. Some of the factory ships commenced whaling in December, while one did not start until January 17th. Conditions were even worse in respect to the catchers, as these arrived still later at the grounds. Consequently, several of the floating factories were compelled to operate with a reduced number of catchers for a long period during the season 1945-46. During the season 1946-47 weather conditions in the Antarctic were also particularly favourable, while the weather during the previous season on the whole had been unfavourable.

Publication No. XX comprised the Antarctic whaling 1946-47 and the introduction to this volume contained particulars in respect to the whaling operations.

In waters outside the Antarctic 28 shore stations, 2 floating factories and 77 catchers were operating in 1946, and 129,759 barrels of oil were produced. In 1947 29 shore stations, 5 floating factories and 107 catchers carried on whaling, with a total yield of 243,972 barrels of oil. The increase in the oil output in 1947 amounts to 114,213 barrels, chiefly owing to the increased whaling material. Thus, 2 floating factories commenced sperm-whale catching off Peru in 1947, and produced 105,986 barrels of sperm-oil. Further one company commenced operations from the Cape Colony and one from California. The Depart-



**Table a.—Whaling material in operation in the years 1933/34—1946/47.**

Years. <sup>1</sup>	All whaling grounds.			Antarctic.			Others.		
	Shore stations.	Floating factories.	Catchers.	Shore stations.	Floating factories.	Catchers.	Shore stations.	Floating factories.	Catchers.
1933-34	15	23	199	2	19	126	13	4	73
1934-35	18	30	242	2	23	153	16	7	89
1935-36	37	33	312	2	24	175	35	9	137
1936-37	29	41	354	2	30	196	27	11	158
1937-38	35	35	356	2	31	256	33	4	100
1938-39	14	37	358	2	34	281	12	3	77
1939-40	7	29	305	2	28	240	5	1	65
1940-41	7	14	174	1	11	93	6	3	81
1941-42	7	2	33	2	-	12	5	2	21
1942-43	7	2	29	1	-	6	6	2	23
1943-44	7	1	29	1	1	15	6	-	14
1944-45	8	1	32	1	1	15	7	-	17
1945-46	31	11	170	3	9	93	28	2 $\frac{1}{2}$	77
1946-47	32	20	254	3	15	147	29	5	107

<sup>1)</sup> 1933-34 = Antarctic season 1933-34 and summer 1934, a.s.o.

ment of Commerce and Agriculture in Australia has reported of the activities of one shore station in 1947. Only 4 humpbacks were killed, yielding 40 barrels of oil.

In 1947 whaling was carried on from the following grounds:

Coast of Natal and Cape Colony — Coast of Brazil — Azores — Madeira — Coast of Portugal — Coast of Norway — Faroe Islands — Coast of West Greenland — New Foundland — California — Coast of Chile and Peru — Coast of Kamtchatka — Coast of Japan — Bonin Island — West Australia — New Zealand.

As mentioned in the preface, no statistical reports have been received from the two grounds, coast of Brazil and coast of Kamtchatka.

**Table b.—Whales killed in the years 1927/28—1946/47, by species.**

Years. <sup>1)</sup>	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.	Total of whales.
1927-28.....	9,676	7,203	1,526	2,290	1,804	1,094	23,593
1928-29.....	13,905	9,270	350	1,549	1,862	1,179	28,115
1929-30.....	19,166	14,378	2,036	841	1,212	667	38,300
1930-31.....	29,649	11,367	924	652	517	21	43,130
1931-32.....	6,705	4,158	635	492	632	366	12,988
1932-33.....	19,067	7,089	501	433	1,234	583	28,907
1933-34.....	17,486	8,734	2,289	541	1,847	1,689	32,586
1934-35.....	16,834	14,078	4,088	962	2,238	1,111	39,311
1935-36.....	18,108	12,155	7,776	823	4,853	1,153	44,868
1936-37.....	14,637	17,687	9,853	1,236	7,055	911	51,379
1937-38.....	15,035	29,680	5,125	929	3,308	758	54,835
1938-39.....	14,152	22,622	1,393	815	5,049	1,679	45,710
1939-40.....	11,560	19,722	454	538	4,041	1,316	37,631
1940-41.....	5,028	9,150	2,939	807	5,081	574	23,579
1941-42.....	69	1,751	276	118	3,928	728	6,870
1942-43.....	136	1,494	219	154	3,920	871	6,794
1943-44.....	351	1,828	218	255	895	418	3,965
1944-45.....	1,101	2,448	292	144	861	521	5,367
1945-46.....	3,675	10,980	493	747	3,418	22	19,335
1946-47.....	9,301	16,491	274	1,117	7,395	56	34,634

<sup>1)</sup> 1927-28 = Antarctic season 1927/28 and summer 1928, a.s.o.

Table c.—Whales killed in the different main areas 1933/34—1946/47.

Years.	All areas.		Antarctic.		North Atlantic and Arctic.		Africa.		Pacific, north.		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.
1933-34	32,586	100	26,087	80.1	583	1.8	2,392	7.3	1,019	3.1	1,436	4.4	1,069	3.3
1934-35	39,311	100	31,808	80.9	568	1.4	3,004	7.7	855	2.2	1,787	4.5	1,289	3.3
1935-36	44,868	100	30,991	69.1	722	1.6	3,768	8.4	857	1.9	1,840	4.1	6,690	14.9
1936-37	51,379	100	34,579	67.4	1,910	3.7	3,966	7.7	730	1.4	2,066	4.0	8,128	15.8
1937-38	54,835	100	46,039	84.0	750	1.4	3,044	5.6	483	0.9	1,970	3.6	2,549	4.5
1938-39	45,710	100	38,356	83.9	802	1.8	2,687	5.9	232	0.5	2,280	5.0	1,353	2.9
1939-40	37,631	100	32,900	87.4	78	0.2	1,035	2.8	922	2.4	2,035	5.4	661	1.8
1940-41	23,579	100	16,363	69.4	133	0.6	759	3.2	931	3.9	2,349	10.0	3,044	12.9
1941-42	6,870	100	1,425	20.7	181	2.6	498	7.3	189	2.8	—	—	4,577	66.6
1942-43	6,794	100	998	14.7	315	4.6	724	10.7	120	1.8	—	—	4,637	68.2
1943-44	3,965	100	1,799	45.4	411	10.4	819	20.6	5	0.1	—	—	931	23.5
1944-45	5,367	100	2,891	53.9	585	10.9	729	13.6	—	—	—	—	1,162	21.6
1945-46	19,335	100	13,387	69.2	1,145	5.9	984	5.1	113	0.6	1,750	9.1	1,956	10.1
1946-47	34,634	100	25,593	73.9	1,063	3.1	1,406	4.0	402	1.2	1,642	4.7	4,528	13.1

Table d.—Oil production in the years 1933/34—1946/47.

Years.	All whaling grounds.		Principal grounds.					
			Antarctic.		North Atlantic and Arctic		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. <sup>1)</sup>	Barrels.	Barrels.	Barrels.	Barrels.	Barrels.	Barrels.	Barrels.
1933-34	2,588,335	13,007	2,395,544	19,012	16,038	1,234	82,359	3,922
1934-35	2,692,825	11,127	2,453,999	16,039	15,341	902	117,950	4,369
1935-36	2,873,423	9,210	2,436,338	13,922	22,203	1,009	135,081	3,141
1936-37	3,214,510	9,081	2,658,108	13,562	69,144	1,921	169,772	4,353
1937-38	3,640,248	10,225	3,340,330	13,048	22,097	1,004	139,102	6,323
1938-39	3,010,098	8,408	2,820,771	10,038	26,066	1,241	106,793	5,085
1939-40	2,666,522	8,743	2,544,253	10,601	2,950	2,950	40,419	3,674
1940-41	1,266,455	7,278	1,100,008	11,828	1,855	1,855	26,638	5,328
1941-42	201,570	6,108	77,819	6,485	<sup>2)</sup> 1,855	1,855	19,740	3,948
1942-43	193,473	6,671	50,960	8,493	5,564	2,782	27,373	5,475
1943-44	197,058	6,795	132,001	8,800	8,963	2,241	29,380	5,876
1944-45	297,954	9,311	223,540	14,903	14,121	1,569	23,189	4,638
1945-46	948,411	5,579	818,652	8,803	36,691	2,158	30,552	3,819
1946-47	2,183,714	8,597	1,939,742	13,196	35,757	1,703	47,677	2,649
1933-34	Per cent	100.0	Per cent	92.6	Per cent	0.6	Per cent	3.2
1934-35		100.0		91.1		0.5		4.4
1935-36		100.0		84.8		0.7		4.7
1936-37		100.0		82.7		2.2		5.3
1937-38		100.0		91.8		0.6		3.8
1938-39		100.0		93.7		0.9		3.5
1939-40		100.0		95.4		0.1		1.5
1940-41		100.0		86.9		0.1		2.1
1941-42		100.0		38.6		0.9		9.8
1942-43		100.0		26.3		2.9		14.1
1943-44		100.0		67.0		4.5		14.9
1944-45		100.0		75.0		4.7		7.8
1945-46		100.0		86.3		3.9		3.2
1946-47		100.0		88.8		1.6		2.2

<sup>1)</sup> Barrel =  $\frac{1}{6}$  ton (1 ton = 1,016 kg). <sup>2)</sup> Calculated.

Table e.—Sperm-oil production in the years 1935/36–1946/47.<sup>1)</sup>

Grounds.	<sup>2)</sup> 1935-36	1936-37	1937-38	1938-39	1939-40	1940-41	1945-46	1946-47
	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels
South Georgia . . . . .	126	3,707	2,656	6,971	4,245	1,400	2,686	5,987
Antarctic, pelagic . . . . .	23,629	49,453	48,911	144,775	102,710	44,792	11,059	66,054
Coast of Africa:								
Coast of Natal . . . . .	26,908	14,871	15,623	16,083	14,672	13,573	19,334	14,272
Cape Colony . . . . .	4,350	8,146	—	—	—	—	—	1,485
South of Madagascar . . . . .	—	—	1,210	1,291	—	—	—	—
Coast of Congo . . . . .	1,367	—	—	—	—	—	—	—
Atlantic and Arctic:								
Azores . . . . .	—	—	— <sup>3)</sup>	— <sup>3)</sup>	— <sup>3)</sup>	—	11,917	12,974
Madeira . . . . .	—	—	—	—	—	—	2,565	2,585
Coast of Portugal . . . . .	—	— <sup>3)</sup>	—	—	— <sup>3)</sup>	—	645	1,080
Coast of Norway . . . . .	1,092	1,548	568	737	—	—	1,059	841
Faroe Islands . . . . .	572	695	251	558	—	—	578	621
Iceland . . . . .	257	1,136	1,048	183	—	—	—	—
South of Iceland, pelagic	—	1,690	—	—	—	—	—	—
Davis Strait, pelagic . . . . .	—	11,173	—	—	—	—	—	—
New Foundland . . . . .	914	825	—	840	—	—	649	1,212
Pacific North:								
Alaska . . . . .	3,873	3,365	3,638	2,655	—	—	—	—
British Columbia . . . . .	15,237	13,459	11,522	— <sup>4)</sup> 5,040	<sup>4)</sup> 9,550	—	—	—
California . . . . .	112	—	—	—	—	27	—	140
Pelagic whaling . . . . .	—	—	—	—	6,281	5,570	118	736
Coast of Peru . . . . .	49,880	88,612	12,869	—	—	41,359	—	105,986
Coast of Chile . . . . .	2,640	4,309 <sup>4)</sup>	5,735	4,213	—	—	12,499	19,160
Coast of Kamtchatka . . . . .	5,421 <sup>4)</sup>	9,504	2,968	7,904	—	<sup>4)</sup> 8,000 <sup>5)</sup>	—	—
Coast of Japan . . . . .	25,031	25,793	27,897	10,961	22,280	21,964	3,148	4,862
Coast of West Australia . . . . .	550	117	—	—	—	—	—	—
Total <sup>1)</sup>	161,959	238,403	134,896	197,171	155,228	146,235	66,257	237,995

<sup>1)</sup> During the war years 1941/42—1944/45, for which figures are omitted in this table, the total sperm-oil production was as follows: In 1941-42 85,332 barrels, 1942-43 95,436 barrels, 1943-44 30,999 barrels, and 1944-45 31,303 barrels. <sup>2)</sup> 1935-36 = Antarctic season 1935-36 and summer 1936, a.s.o. <sup>3)</sup> No information received as to production of sperm-oil. <sup>4)</sup> Calculated. <sup>5)</sup> 316 Sperm-whales have been caught, but no information has been received re. sperm-oil production.

Table a, on page 8, shows the number of shore stations, floating factories and catchers operating in the Antarctic and on other grounds from and including 1933-34. As mentioned in the preface supplementary information has been received since the publication of volume No. XIX concerning whaling operations and whaling material engaged during the post-war seasons. This table, as well as later tables in the present publication have been corrected on the basis of the new data. The total participation during the season 1946-47 and the summer 1947 comprised 32 shore stations, 20 floating factories and 254 catchers—an increase, compared to the previous season, of 1 shore station, 9 floating factories and 84 catchers. Of the 20 floating factories 15 were operating in the Antarctic and 5 on other grounds. One of the factories operating in the Antarctic, has, however, also carried on whaling outside Antarctic waters, and has been registered in the number of floating factories in both places. This is also the case in respect to the catchers, a few having operated both in the Antarctic and elsewhere. The same method was also used during the pre-war years, as some of the Antarctic factories operated on other grounds during the summer.

Table f.—Whaling results for the various countries 1933/34—1946/47. All areas.

Number of whales killed.

Years.	All countries	Argentina.	Brazil.	British Empire.	Chile.	Denmark.	Germany.	Iceland.	Japan.	Mexico.	Norway.	Panama.	Portugal.	Sovjet Russia.	Spain.	United States.	Holland.
<i>Absolute figures:</i>																	
1933-34.....	32,586	1,139	—	14,616	367	123	—	—	1,436	—	13,657	—	240	339	—	669	—
1934-35.....	39,311	809	—	17,533	469	117	—	28	2,000	70	16,939	—	276	487	—	583	—
1935-36.....	44,868	944	—	19,919	238	114	—	85	2,479	—	15,670	2,449	480	501	—	1,989	—
1936-37.....	51,379	1,014	—	21,387	168	1,089	920	79	4,025	—	<sup>1)</sup> 15,943	2,389	288	418	—	3,659	—
1937-38.....	54,835	1,062	—	19,542	300	208	5,839	147	7,552	—	<sup>1)</sup> 15,355	1,527	388	265	—	2,650	—
1938-39.....	45,710	1,024	—	14,104	407	178	5,066	130	9,820	—	<sup>1)</sup> 11,871	907	389	476	—	1,338	—
1939-40.....	37,631	705	—	13,207	—	—	—	—	9,698	—	11,040	1,421	552	—	—	1,008	—
1940-41.....	23,579	868	—	4,361	—	—	—	—	12,920	—	4,362	—	501	543	—	24	—
1941-42.....	6,870	1,066	—	1,162	—	—	—	—	—	—	3,456	—	606	554	—	26	—
1942-43.....	6,794	998	—	1,057	—	—	—	—	—	—	3,462	—	770	478	—	29	—
1943-44.....	3,965	962	—	1,171	367	—	—	—	—	—	984	—	476	—	—	5	—
1944-45.....	5,367	1,296	—	1,229	487	—	—	—	—	—	1,787	—	568	—	—	—	—
1945-46.....	19,335	1,082	—	6,682	585	175	—	—	1,863	—	7,687	—	795	466	—	—	—
1946-47.....	34,634	857	—	14,736	790	284	—	—	3,181	—	12,857	—	735	386	—	38	770
<i>Percentage figures:</i>																	
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
1933-34.....	100.0	3.5	—	44.9	1.1	0.4	—	—	4.4	—	41.9	—	0.7	1.0	—	2.1	—
1934-35.....	100.0	2.0	—	44.6	1.2	0.3	—	0.1	5.1	0.2	43.1	—	0.7	1.2	—	1.5	—
1935-36.....	100.0	2.1	—	44.4	0.5	0.3	—	0.2	5.5	—	34.9	5.5	1.1	1.1	—	4.4	—
1936-37.....	100.0	2.0	—	41.6	0.3	2.1	1.8	0.2	7.8	—	31.0	4.7	0.6	0.8	—	7.1	—
1937-38.....	100.0	1.9	—	35.6	0.5	0.4	10.7	0.3	13.8	—	28.0	2.8	0.7	0.5	—	4.8	—
1938-39.....	100.0	2.2	—	30.8	0.9	0.4	11.1	0.3	21.5	—	26.0	2.0	0.9	1.0	—	2.9	—
1939-40.....	100.0	1.9	—	35.1	—	—	—	—	25.8	—	29.3	3.8	1.5	—	—	2.6	—
1940-41.....	100.0	3.7	—	18.5	—	—	—	—	54.8	—	18.5	—	2.1	2.3	—	0.1	—
1941-42.....	100.0	15.5	—	16.9	—	—	—	—	—	—	50.3	—	8.8	8.1	—	0.4	—
1942-43.....	100.0	14.7	—	15.6	—	—	—	—	—	—	51.0	—	11.3	7.0	—	0.4	—
1943-44.....	100.0	24.3	—	29.5	9.3	—	—	—	—	—	24.8	—	12.0	—	—	0.1	—
1944-45.....	100.0	24.1	—	22.9	9.1	—	—	—	—	—	33.3	—	10.6	—	—	—	—
1945-46.....	100.0	5.6	—	34.6	3.0	0.9	—	—	9.6	—	39.8	—	4.1	2.4	—	—	—
1946-47.....	100.0	2.5	—	42.6	2.3	0.8	—	—	9.2	—	37.1	—	2.1	1.1	—	0.1	2.2

<sup>1)</sup> Including the catch of two Norwegian expeditions hired by Germany—in 1936/37 1,756 whales, in 1937/38 2,158 whales, and in 1938/39 1,658 whales.

Table g.—Whaling results for the various countries 1933/34—1946/47. All areas.  
Oil production in barrels.<sup>1)</sup>

Years.	All countries.	Argentina.	Brazil.	British Empire.	Chile.	Denmark.	Germany.	Iceland.	Japan.	Mexico.	Norway.	Panama.	Portugal.	Sovjet Russia.	Spain.	United States.	Holland.
<i>Absolute figures:</i>																	
1933-34	2,588,335	65,790	—	1,192,478	13,626	3,013	—	—	22,766	—	1,253,694	—	—	12,168	—	24,800	—
1934-35	2,692,825	53,100	—	1,290,096	16,633	2,997	—	691	42,133	3,821	1,239,327	—	—	19,398	—	24,629	—
1935-36	2,873,423	75,192	—	1,240,361	8,789	3,605	—	3,415	74,289	—	1,162,742	205,801	—	18,238	—	80,991	—
1936-37	3,214,510	47,377	—	1,287,627	5,925	79,535	61,992	2,862	189,012	—	1,191,772	181,495	—	16,480	—	150,433	—
1937-38	3,640,248	51,766	—	1,308,015	8,279	6,101	369,727	4,920	422,036	—	1,169,069	117,650	7,284	9,102	—	166,299	—
1938-39	3,010,098	66,826	—	1,007,223	5,797	5,197	374,149	3,764	496,260	—	853,867	68,853	6,920	18,854	—	102,388	—
1939-40	2,666,522	39,432	—	938,147	—	—	—	—	593,499	—	909,790	113,000	10,047	—	—	62,607	—
1940-41	1,266,455	44,498	—	274,987	—	—	—	—	674,319	—	244,676	—	9,057	18,235	—	683	—
1941-42	201,570	60,807	—	47,745	—	—	—	—	—	—	64,500	—	13,070	14,500	—	948	—
1942-43	193,473	50,960	—	39,932	—	—	—	—	—	—	72,000	—	13,880	15,941	—	760	—
1943-44	197,058	50,001	—	40,973	13,863	—	—	—	—	—	82,000	—	10,073	—	—	148	—
1944-45	297,954	75,540	—	40,401	20,784	—	—	—	—	—	149,391	—	11,838	—	—	—	—
1945-46	948,411	45,028	—	307,048	17,557	3,981	—	—	5,837	—	536,803	—	16,016	16,141	—	—	—
1946-47	2,183,714	47,830	—	901,597	22,836	6,286	—	—	80,244	—	991,709	—	19,537	35,000	—	1,365	77,310
<i>Percentage figures:</i>	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
1933-34	100.0	2.5	—	46.1	0.5	0.1	—	—	0.9	—	48.4	—	—	0.5	—	1.0	—
1934-35	100.0	2.0	—	47.9	0.6	0.1	—	—	1.6	0.2	46.0	—	—	0.7	—	0.9	—
1935-36	100.0	2.6	—	43.2	0.3	0.1	—	0.1	2.6	—	40.5	7.2	—	0.6	—	2.8	—
1936-37	100.0	1.5	—	40.1	0.2	2.5	1.9	0.1	5.9	—	37.1	5.6	—	0.5	—	4.6	—
1937-38	100.0	1.4	—	35.9	0.2	0.2	10.2	0.1	11.6	—	32.1	3.2	0.2	0.3	—	4.6	—
1938-39	100.0	2.2	—	33.5	0.2	0.2	12.4	0.1	16.5	—	28.4	2.3	0.2	0.6	—	3.4	—
1939-40	100.0	1.5	—	35.2	—	—	—	—	22.3	—	34.1	4.2	0.4	—	—	2.3	—
1940-41	100.0	3.5	—	21.7	—	—	—	—	53.3	—	19.3	—	0.7	1.4	—	0.1	—
1941-42	100.0	30.2	—	23.7	—	—	—	—	—	—	32.0	—	6.5	7.2	—	0.4	—
1942-43	100.0	26.3	—	20.6	—	—	—	—	—	—	37.2	—	7.2	8.3	—	0.4	—
1943-44	100.0	25.4	—	20.8	7.0	—	—	—	—	—	41.6	—	5.1	—	—	0.1	—
1944-45	100.0	25.4	—	13.6	7.0	—	—	—	—	—	50.1	—	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	—	41.3	1.0	0.3	—	—	3.7	—	45.4	—	0.9	1.6	—	0.1	3.5

<sup>1)</sup> Barrel = 1/6 ton (1 ton = 1,016 kg). <sup>2)</sup> The figures include the catch of two Norwegian expeditions hired by Germany—in 1936/37 131,200 barrels, in 1937/38 180,750 barrels, and in 1938/39 118,383 barrels.

**Table h.—Average size of whales killed in the different grounds in the years 1934 to 1939, 1946, and 1947.**

Species of whales and whaling grounds.	1947	1946	1939	1938	1937	1936	1935	1934
<b><u>Blue-whales.</u></b>	Engl. ft.	Engl. ft.	Engl. ft.	Engl. ft.	Engl. ft.	Engl. ft.	Engl. ft.	Engl. ft.
Antarctic:—								
South Georgia . . . . .	77.09	73.41	75.81	70.89	71.79	74.27	74.15	72.67
Pelagic whaling . . . . .	78.29	78.25	78.11	78.42	77.49	77.75	78.57	80.51
Africa:—								
Coast of Natal . . . . .	68.72	64.83	—	67.00	66.23	—	67.43	67.06
Cape Colony . . . . .	71.00	—	—	—	—	—	—	—
North Atlantic and Arctic:								
Coast of Norway . . . . .	70.45	69.41	—	—	—	—	—	—
Faroe Islands . . . . .	70.00	69.60	—	68.00	—	—	64.00	—
Coast of West Greenland	74.75	74.67	—	—	—	—	—	—
New Foundland . . . . .	75.40	72.91	—	—	—	70.70	—	—
Coast of Chile . . . . .	71.09	—	—	—	—	—	—	—
Coast of Japan . . . . .	72.90	69.25	—	—	—	—	—	—
Bonin Island . . . . .	72.00	—	—	—	—	—	—	—
<b><u>Fin-whales.</u></b>								
Antarctic:—								
South Georgia . . . . .	67.54	66.16	65.37	64.52	63.56	64.66	65.76	64.44
Pelagic whaling . . . . .	67.43	67.48	67.21	67.86	67.80	67.72	67.61	68.99
Africa:—								
Coast of Natal . . . . .	60.87	63.51	—	60.14	59.91	—	60.70	60.03
Cape Colony . . . . .	55.93	—	—	—	—	—	—	—
North Atlantic and Arctic:								
Coast of Norway . . . . .	60.03	60.84	} 60.62	62.08	62.11	60.66	59.23	59.65
Faroe Islands . . . . .	59.35	60.00						
Coast of West Greenland	58.33	60.38						
New Foundland . . . . .	61.83	60.48						
Pacific (north):—								
California . . . . .	60.59	—	—	—	—	—	—	—
Coast of Chile . . . . .	56.04	—	—	—	—	—	—	—
Coast of Japan . . . . .	58.33	57.29	—	—	—	—	—	—
<b><u>Humpbacks.</u></b>								
Antarctic:—								
South Georgia . . . . .	38.57	41.47	—	41.53	39.82	40.29	44.19	38.40
Pelagic whaling . . . . .	48.00	—	39.64	41.07	40.59	41.43	40.83	40.09
Coast of Africa:—								
Coast of Natal . . . . .	38.80	36.99	—	36.41	36.53	—	36.51	—
Cape Colony . . . . .	44.40	—	—	—	—	—	—	—
North Atlantic and Arctic,								
total . . . . .	41.22	42.10	—	—	—	—	—	—
Pacific (north):—								
California . . . . .	41.85	—	—	—	—	—	—	—
Coast of Chile . . . . .	44.50	—	—	—	—	—	—	—
Coast of Japan . . . . .	40.25	39.13	—	—	—	—	—	—
Bonin Island . . . . .	44.00	43.00	—	—	—	—	—	—

Species of whales and whaling grounds.	1947	1946	1939	1938	1937	1936	1935	1934
	Engl. ft.	Engl. ft.	Engl. ft.	Engl. ft.	Engl. ft.	Engl. ft.	Engl. ft.	Engl. ft.
<b><u>Sei-whales.</u></b>								
Coast of Africa:—								
Coast of Natal.....	43.18	43.93	—	—	—	—	—	—
Cape Colony.....	46.46	—	—	—	—	—	—	—
North Atlantic and Arctic, total.....	44.90	43.92	—	—	—	—	—	—
Pacific (north):—								
California.....	52.33	—	—	—	—	—	—	—
Coast of Chile.....	46.50	—	—	—	—	—	—	—
Coast of Japan.....	43.68	42.39	—	—	—	—	—	—
Bonin Island.....	41.97	41.31	—	—	—	—	—	—
<b><u>Sperm-whales.</u></b>								
Antarctic:—								
South Georgia.....	45.05	47.74	50.33	50.53	50.82	48.00	50.66	—
Pelagic whaling.....	50.77	51.56	52.88	53.17	53.04	54.06	53.38	53.39
Coast of Africa:—								
Coast of Natal.....	39.20	40.20	—	42.12	38.47	—	—	—
Cape Colony.....	44.04	—	—	—	—	—	—	—
North Atlantic and Arctic:								
Coast of Norway.....	52.50	43.14	} 51.70	53.15	52.67	—	—	—
Faroe Islands.....	48.40	50.29						
Coast of West Greenland	52.67	53.00						
New Foundland.....	54.06	53.00						
Pacific (north):—								
California.....	43.60	—	—	—	—	—	—	—
Coast of Peru.....	43.39	—	—	—	—	—	—	—
Coast of Chile.....	40.26	—	—	—	—	—	—	—
Coast of Japan.....	37.16	36.77	—	—	—	—	—	—
Bonin Island.....	36.82	37.83	—	—	—	—	—	—

Table *b*, page 8, shows the number of whales killed in each year from 1927–28 until 1946–47, and with distribution as to the species of the whales. During these 20 years a total number of 581,900 whales have been killed. During the 80 years' period from the beginning of modern whaling in 1868 until 1946–47, the total catch amounts to 965,620 whales.

Table *c*, on page 9, gives the total number of whales killed in the different main areas from 1933–34 to 1946–47. Of a total catch in 1946–47 of 34,634 whales, 25,593 or 73.9 % were killed in the Antarctic. During the last pre-war seasons more than 80 % of all whales were killed in the Antarctic.

Table *d*, on page 9, registers the production of oil from 1933–34 to 1946–47.

Table i.—North Atlantic and Arctic.

Grounds.	Years.	Species of whales caught.							Oil production.	Expeditions.			
		Blue.	Fin.	Hump-back.	Seal.	Sperm.	Others.	Total of whales.		Shore stations.	Floating factories.	Catchers.	
<i>North Atlantic and Arctic. Total</i>	1934	25	357	5	185	11	—	583	16,038	3	1	13	
	1935	10	385	17	125	25	<sup>1)</sup> 6	568	15,341	7	—	17	
	1936	31	462	15	158	47	<sup>1)</sup> 9	722	22,203	9	—	22	
	1937	57	1,330	25	173	289	<sup>2)</sup> 36	1,910	69,144	9	2	36	
	1938	15	565	2	105	36	<sup>1)</sup> 27	750	22,097	7	—	22	
	1939	26	665	9	59	40	<sup>3)</sup> 3	802	26,066	7	—	21	
	1940	1	64	7	—	6	—	78	2,950	1	—	1	
	1941	3	71	3	51	5	—	133	<sup>5)</sup> 1,855	1	—	1	
	1942	5	120	2	52	2	—	181	<sup>5)</sup> 1,855	1	—	1	
	1943	1	251	8	45	10	—	315	<sup>5)</sup> 5,564	2	—	2	
	1944	5	343	10	32	21	—	411	<sup>5)</sup> 8,963	2	—	4	
	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	
<i>Faroe Islands.</i>	1934	2	74	—	13	7	—	96	3,013	1	—	2	
	1935	3	75	2	3	5	—	88	2,997	1	—	2	
	1936	2	82	—	1	9	—	94	3,605	2	—	5	
	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	<sup>4)</sup> 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	
<i>Iceland.</i>	1934	—	—	—	—	—	—	—	—	—	—	—	
	1935	2	25	—	1	—	—	28	691	1	—	2	
	1936	5	72	—	1	7	—	85	3,415	1	—	2	
	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	
<i>Coast of Norway.</i>	1934	—	132	—	172	4	—	308	6,305	2	—	6	
	1935	1	106	—	108	4	<sup>1)</sup> 6	225	4,488	3	—	10	
	1936	4	147	—	154	17	<sup>1)</sup> 9	331	7,997	4	—	12	
	1937	9	223	—	55	20	<sup>1)</sup> 35	342	9,467	4	—	12	
	1938	4	261	—	94	9	<sup>1)</sup> 27	395	11,076	4	—	12	
	1939	4	282	1	46	14	<sup>3)</sup> 3	350	11,155	3	—	9	
	1940	—	—	—	—	—	—	—	—	—	—	—	
	1941	1	6	—	49	5	—	61	<sup>5)</sup> —	—	—	—	
	1942	1	58	1	48	2	—	110	<sup>5)</sup> —	—	—	—	
	1943	—	110	2	45	6	—	163	<sup>5)</sup> —	—	—	—	
	1944	—	112	—	31	4	—	147	<sup>5)</sup> —	—	—	—	
	1945	3	158	—	27	4	—	192	<sup>5)</sup> 1,391	<sup>6)</sup> 1	—	3	
	1946	17	392	—	11	21	—	441	15,930	3	—	9	
	1947	11	285	—	12	16	—	324	10,871	3	—	9	
<i>Pelagic whaling in Arctic.</i>	1934	21	128	3	—	—	—	152	6,720	—	1	4	
	—	—	—	—	—	—	—	—	—	—	—	—	
	1937	28	461	7	100	218	—	814	32,375	—	2	11	

<sup>1)</sup> Different kinds of small whales. <sup>2)</sup> Different kinds of small whales and 1 right-whale. <sup>3)</sup> 2 Minke-whales and 1 bottlenose. <sup>4)</sup> 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. <sup>5)</sup> 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. <sup>6)</sup> Catch result for the shore station and 3 catchers: 3 blue-whales, 27 fin-whales, and 1,391 barrels of whale oil.



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>Coast of West Greenland.</i>	1934	2	23	2	—	—	—	27	Barrels.	—	—	—	1
	1935	—	23	6	—	—	—	29	—	—	—	—	—
	1936	—	15	5	—	—	—	20	—	—	—	—	—
	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
<i>New Foundland.</i>	1934	—	—	—	—	—	—	—	—	—	—	—	—
	1935	4	156	9	13	16	—	198	7,165	2	—	—	3
	1936	20	146	10	2	14	—	192	7,186	2	—	—	3
	1937	8	439	9	7	19	1)	483	19,075	2	—	—	5
	1938	—	—	—	—	—	—	—	—	—	—	—	—
	1939	7	118	4	2	13	—	144	5,950	1	—	—	2
	1940	1	64	7	—	6	—	78	2,950	1	—	—	1
	1941	2	65	3	2	—	—	72	1,855	1	—	—	1
	1942	4	62	1	4	—	—	71	2) 1,855	1	—	—	1
	1943	1	141	6	—	4	—	152	5,564	2	—	—	2
	1944	5	231	10	1	17	—	264	8,963	2	—	—	4
	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

1) Right-whale. 2) Calculated.

While 73.9 % of the whales were killed in the Antarctic, the oil production in these waters amounted to 88.8 % of the total yield in 1946–47. The higher oil production in the Antarctic as compared with the number of whales killed, is due to greater yield of oil per whale in Antarctic waters. This is not due to a better method of production, but to the fact that the Antarctic whale, especially towards the end of the season is much fatter than the whale in tropical and subtropical waters. It may here be mentioned that when the baleen whale is present in tropical and temperate seas, it consumes the nourishment stored up during the stay in colder areas. Table *d* also gives the average production per catcher per season. In the Antarctic the average yield per catcher in 1946–47 amounted to 13,196 barrels of oil as compared to 8,803 barrels in the preceding season. This considerable increase in the production is, as previously mentioned, due to the earlier arrival of the whaling fleet at the catching grounds and more favourable weather conditions. In the North Atlantic and Arctic the average yield per catcher amounted to 1,703 barrels. This is a slightly lower average than during former seasons. On the African grounds the average production per catcher amounted to 2,649 barrels in 1946–47 as against 3,819 barrels during the preceding season. This decrease is partly due to the fact that one shore station with 5 catchers commenced operations in the middle of July and closed on October 31st, thus operating during half of the season only.

Table j.—Portugal, Azores, and Madeira.

Years	Species of whales caught.							Oil production.	Expeditions.		
	Blue.	Fin.	Hump-back	Sei.	Sperm.	Others.	Total of whales.		Shore stations.	Floating factories.	Catchers. <sup>3)</sup>
1934	—	—	—	—	82	<sup>1)</sup> 158	240	Barrels.	—	—	—
1935	—	—	—	—	136	<sup>3)</sup> 140	276	—	—	—	—
1936	—	—	—	—	172	<sup>3)</sup> 308	<sup>4)</sup> 480	—	—	—	—
1937	—	—	—	—	80	<sup>3)</sup> 208	<sup>5)</sup> 288	—	—	—	—
1938	—	—	—	—	—	<sup>3)</sup> 388	<sup>6)</sup> 388	7,284	—	—	—
1939	—	—	—	—	—	<sup>3)</sup> 389	389	6,920	—	—	—
1940	—	—	—	—	—	<sup>3)</sup> 552	552	10,047	—	—	—
1941	—	—	—	—	—	<sup>3)</sup> 501	501	9,057	—	—	—
1942	—	—	—	—	—	<sup>3)</sup> 606	606	13,070	—	—	—
1943	—	—	—	—	—	<sup>3)</sup> 770	770	13,880	—	—	—
1944	—	38	—	—	20	<sup>3)</sup> 418	476	10,073	—	—	—
1945	—	36	—	—	11	<sup>3)</sup> 521	568	11,838	—	—	—
1946	—	42	—	—	753	—	795	16,016	—	—	—
1947	—	111	—	—	624	—	735	19,537	—	—	—

<sup>1)</sup> Different kinds of small whales. <sup>2)</sup> Whaling is carried on with row-boats on old lines. <sup>3)</sup> No specification. <sup>4)</sup> The whales have been caught during the period  $\frac{1}{2}$  1935— $\frac{31}{12}$  1936. <sup>5)</sup> The whales have been caught during the period  $\frac{1}{11}$ — $\frac{30}{11}$  1937. <sup>6)</sup> Probably a small number of whales has also been caught from the island of São Miguel and perhaps also from some others of the islands of Azores, but no information is available.

Table *e*, on page 10, gives the production of sperm-oil during the years 1935/36–1946/47 specified by the different grounds. When using the term “whale-oil,” this refers to the oil of the baleen whale. The whale-oil consists chiefly of the same type of fat as that of the mammals, and whale-oil is mainly used for the production of margarine. The oil extracted from the sperm-whale is of a nature entirely different from the oil of the baleen whale. The sperm-oil contains substances chemically considered as waxes, closely related to, for inst., bees’ wax and wool fat. The greater part of the sperm-oil is supplied to the textile industry as sulphonates and is also used for cosmetics, medicine and soap.

As will appear from table *e* the total production of sperm-oil in 1946–47 and the summer 1947 amounted to 237,995 barrels. The production during the previous season amounted to 66,257 barrels. This considerable increase in the sperm-oil production in 1946–47 is mainly due to 2 floating factories engaged in sperm-whale catching off the coast of Peru with an output of 105,986 barrels. The production in the Antarctic further increased by 58,296 barrels in 1946–47 as compared to the preceding season.

Tables *f* and *g* on pages 11 and 12 give a distribution of the whaling results in all areas in respect to the various participating countries. The term country in this sense refers to the nation under whose flag operations have taken place.

On the basis of measurement-records received, the average size of the whales killed has been calculated. In table *h*, on pages 13 and 14, the average size of whales killed in 1946–47 and summer 1947 is compared with the corresponding figures from and including 1933–34.

Table k.—Africa.

Grounds.	Years.	Species of whales caught.							Oil production.	Expeditions.			
		Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.	Total of whales.		Barrels.	Shore stations.	Floating factories.	Catchers.
<i>Africa. Total.</i>	1934	71	557	1,238	57	467 <sup>1)</sup>	—	2,392	82,359	3	—	21	
	1935	122	526	1,659	100	595 <sup>1)</sup>	—	2,304	117,950	2	3	27	
	1936	120	1,095	1,168	305	1,073 <sup>2)</sup>	—	7,376	135,081	3	3	43	
	<sup>3)</sup> 1937	128	1,175	1,789	121	710 <sup>4)</sup>	43	3,966	169,772	3	2	39	
	<sup>3)</sup> 1938	40	538	1,927	66	473	—	3,644	139,102	1	1	22	
	<sup>3)</sup> 1939	27	502	200	42	676 <sup>5)</sup>	1,240	2,637	106,793	2	1	?	
	1940	28	324	176	25	482	—	1,035	40,419	1	—	11	
	1941	6	193	79	5	476	—	759	26,638	1	—	5	
	1942	2	204	156	13	123	—	498	19,740	1	—	5	
	1943	10	301	80	34	299	—	724	27,373	1	—	5	
	1944	5	227	115	24	448	—	819	29,380	1	—	5	
	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 <sup>2)</sup>	55	1,406	47,677	2	—	18	
	<i>Coast of Natal.</i>	1934	70	536	514	30	422 <sup>1)</sup>	—	2,157	60,924	2	—	17
		1935	122	526	418	90	595 <sup>1)</sup>	—	2,175	67,008	2	—	17
1936		41	528	301	68	911	—	1,849	64,570	2	—	18	
1937		67	755	240	64	503	—	1,629	67,979	2	—	16	
1938		39	536	175	64	425	—	1,239	54,352	1	—	16	
1939		27	502	200	42	615	—	1,386	51,529	2	—	16	
1940		28	324	176	25	482	—	1,035	40,419	1	—	11	
1941		6	193	79	5	476	—	759	26,638	1	—	5	
1942		2	204	156	13	123	—	498	19,740	1	—	5	
1943		10	301	80	34	299	—	724	27,373	1	—	5	
1944		5	227	115	24	448	—	819	29,380	1	—	5	
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	1	—	13		
<i>Cape Colony.</i>	1936	79	566	27	214	108 <sup>2)</sup>	—	7,100	31,799	1	—	14	
	1937	57	398	28	49	207 <sup>4)</sup>	43	782	34,515	1	—	13	
	1947	1	44	5	39	48 <sup>2)</sup>	55	192	3,403	1	—	5	
<i>Coast of Congo.</i>	1934	1	21	724	27	45	—	818	21,435	1	—	4	
	1935	—	—	1,241	10	—	—	1,251	50,942	—	3	10	
	1936	—	1	840	23	54	—	918	38,712	—	3	11	
	1937	—	—	298	—	—	—	298	13,778	—	1	4	
<i>South of Madagascar.</i>	1937	4	22	1,223	8	—	—	1,257	53,500	—	1	6	
	1938	1	—	1,752	2	48	—	1,805	84,750	—	1	6	
	1939	—	—	—	—	61 <sup>5)</sup>	1,240	1,301	55,264	—	1	?	

<sup>1)</sup> Right-whales. <sup>2)</sup> Bryde-whales. <sup>3)</sup> Including South of Madagascar. <sup>4)</sup> 7 right-whales and 36 Bryde-whales. <sup>5)</sup> No specification.

### Whaling in the various areas outside Antarctic.

Table i, on page 15, covers the whaling operations in the North Atlantic and Arctic. It will appear from International Whaling Statistics No. XIX that 2 shore stations resumed whaling from the Faroe Islands in 1946. The statistics recorded the number of whales killed for both stations, but particulars as to the oil production were lacking for one station. Production-report for 1946 has

Table I.—Pacific North.

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>Pacific North. Total.</i>	1934	—	—	—	—	—	—	1) <sup>1</sup> 1,019	1,019	43,100	4	1	15
	1935	140	117	148	6	253	2) <sup>2</sup> 191	855	38,784	3	2	16	
	1936	44	208	132	—	377	1) <sup>1</sup> 96	857	36,896	4	1	15	
	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) <sup>1</sup> 59	922	39,801	2	1	8	
	1941	41	441	49	7	390	3) <sup>3</sup> 3	931	38,135	3	1	15	
	1942	1	35	19	1	133	—	189	7,098	2	—	4	
	1943	—	34	12	2	72	—	120	3,990	2	—	5	
	1944	—	1	1	2	1	—	5	148	1	—	2	
	1945	—	—	—	—	—	—	—	—	—	—	—	
	1946	—	—	12	29	72	—	113	4) 118	—	1	2	
	1947	4	17	14	161	206	—	402	2,137	1	3	6	
<i>Alaska.</i>	1934	—	—	—	—	—	—	1) <sup>1</sup> 464	464	18,600	2	—	7
	1935	87	94	141	—	70	3) <sup>3</sup> 2	394	19,485	2	—	7	
	1936	41	160	118	—	66	—	385	17,325	2	—	7	
	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>British Columbia.</i>	1934	—	—	—	—	—	—	1) <sup>1</sup> 350	350	18,300	2	—	6
	1935	6	20	1	—	175	—	202	10,334	1	—	4	
	1936	3	48	14	—	311	—	376	16,969	2	—	6	
	1937	1	44	7	—	265	—	317	14,719	2	—	6	
	1938	4	50	4	—	252	—	310	13,157	2	—	6	
	1939	—	—	—	—	—	—	—	—	—	—	—	
	1940	2	90	2	—	126	—	220	8,700	1	—	3	
	1941	1	67	27	—	233	—	328	13,630	2	—	6	
	1942	1	25	7	—	130	—	163	6,150	1	—	3	
1943	—	15	7	—	69	—	91	3,230	1	—	2		
<i>California.</i>	1934	—	—	—	—	—	—	1) <sup>1</sup> 205	205	6,200	—	1	2
	1935	—	—	—	—	—	—	1) <sup>1</sup> 189	189	5,144	—	1	2
	1936	—	—	—	—	—	—	1) <sup>1</sup> 96	96	2,602	—	1	2
	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	
	1942	—	10	12	1	3	—	26	948	1	—	1	
	1943	—	19	5	2	3	—	29	760	1	—	3	
	1944	—	1	1	2	1	—	5	148	1	—	2	
1947	—	17	13	3	5	—	38	1,365	1	—	2		
<i>Coast of Mexico.</i>	1935	47	3	6	6	8	—	70	3,821	—	1	3	
<i>Pelagic whaling.</i>	1940	34	292	108	3	177	1) <sup>1</sup> 59	673	29,494	—	1	4	
	1941	40	367	6	7	156	3) <sup>3</sup> 3	579	23,822	—	1	7	
	—	—	—	—	—	—	—	—	—	—	—	—	
	1946	—	—	12	29	72	—	113	4) 118	—	1	2	
	1947	4	—	1	158	201	—	364	4) 772	—	3	4	

1) No specification. 2) 2 right-whales and 189 without specification. 3) Right-whales. 4) Catch around the Bonin Island. The whale is mainly used for human food.

Table m.—Japan and Corea.

Years.	Species of whales caught.							Oil production.	Expeditions.		
	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.	Total of whales.		Shore stations.	Floating factories.	Catchers.
1934	21	287	59	298	357	<sup>1)</sup> 414	1,436	22,766	—	—	21
1935	21	273	70	380	479	<sup>1)</sup> 564	1,787	29,178	—	—	21
1936	3	241	72	348	549	<sup>1)</sup> 627	1,840	30,144	17	—	23
1937	12	300	68	435	640	<sup>2)</sup> 611	2,066	32,425	8	—	24
1938	4	293	60	553	785	<sup>3)</sup> 275	1,970	33,353	21	—	25
1939	10	241	86	677	1,266	—	2,280	12,784	<sup>4)</sup> —	—	23
1940	15	252	33	429	1,306	—	2,035	25,143	<sup>4)</sup> —	—	45
1941	26	360	40	623	1,298	<sup>5)</sup> 2	2,349	28,084	<sup>4)</sup> —	—	49
—	—	—	—	—	—	—	—	—	—	—	—
1946	8	232	8	545	957	—	1,750	<sup>6)</sup> 5,719	17	—	41
1947	30	257	8	383	964	—	1,642	<sup>6)</sup> 6,177	15	—	38

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

now been received from this station, and table *i* has been corrected accordingly. The same 7 land stations operating in the North Atlantic and Arctic in 1946 also carried on whaling in 1947. The total output of oil was 35,757 barrels against 39,472 in 1946. The production in 1947 is nevertheless higher than the usual yearly pre-war production. The decline in the yield in 1947 is mainly due to the decrease in the catch off the coast of Norway. Owing to the shortage of meat-supplies after the war, the production of whale-meat has increased considerably. All shore stations included in the area "North Atlantic and Arctic" are producing great quantities of whale-meat for human food. Consequently, the oil production is lower than would have been the case if the total catch had been used for that purpose.

Table *j*, page 17, shows the whaling off Portugal, the Azores and Madeira.

The reports received from the Azores and Madeira contain no specification as to the species of whales killed. According to information obtained elsewhere, it appears that the catch in these waters consists entirely of sperm-whales. The number of whales killed has therefore been recorded under this item. The catch off the coast of Portugal consists of fin- and sperm-whales. As will be seen from the table, there is a decrease of 60 in the total number of whales killed as compared with 1946. The output of oil, however, has increased by 3,521 barrels. It is difficult to obtain exact information about the catch and the oil production from the Azores and Madeira, and it is therefore possible that the oil production in previous seasons may have been higher than estimated. It appears from the table that 770 animals were killed in 1943, apparently sperm-whales only. According to the report received 13,880 barrels of oil were extracted from these whales. The production figure recorded is probably too low.

Table *k*, on page 18, gives the whaling on African grounds. As will be seen from the table, whaling has been resumed in 1947 from the Cape Colony. It is an old station, previously belonging to a South-African company, which has

Table n.—Kamtchatka.

Years	Species of whales caught.						Total of whales.	Oil production.	Expeditions.		
	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.			Shore stations.	Float-ing factories.	Catch-ers.
1934	2	150	51	1	74	<sup>1)</sup> 61	339	Barrels. 12,168	—	1	3
1935	1	206	143	—	—	<sup>2)</sup> 137	487	19,398	—	1	3
1936	5	210	68	—	113	<sup>3)</sup> 105	501	18,238	—	1	3
1937	—	142	65	1	198	<sup>4)</sup> 12	418	<sup>5)</sup> 16,480	—	1	3
1938	—	104	43	—	64	<sup>6)</sup> 54	265	9,102	—	1	3
1939	—	238	43	—	154	<sup>7)</sup> 41	476	18,854	—	1	3
1940	—	—	—	—	—	—	—	—	—	—	—
1941	9	254	7	11	194	<sup>8)</sup> 68	543	18,235	—	1	3
1942	2	203	12	—	215	<sup>9)</sup> 122	554	14,500	—	1	3
1943	—	132	29	—	216	<sup>10)</sup> 101	478	15,941	—	1	3
—	—	—	—	—	—	—	—	—	—	—	—
1946	2	117	9	—	316	<sup>2)</sup> 22	466	16,141	—	1	3

<sup>1)</sup> 54 grey-whales, 6 bottlenoses and 1 Minke-whale. <sup>2)</sup> No specification. <sup>3)</sup> 102 grey-whales and 3 without specification. <sup>4)</sup> 11 grey-whales and 1 right-whale. <sup>5)</sup> The quantity of oil has been calculated as no information was to hand re. oil production. <sup>6)</sup> Grey-whales. <sup>7)</sup> 29 grey-whales and 12 without specification. <sup>8)</sup> 2 Minke-whales, 57 grey-whales, 5 bottlenoses, and 4 dolphins. <sup>9)</sup> 3 Minke-whales, 101 grey-whales, 7 bottlenoses, and 11 dolphins. <sup>10)</sup> 99 grey-whales, 1 bottlenose, and 1 dolphin.

now been taken over by a new whaling company. This station has not been active since 1937. That year it produced 34,515 barrels, and employed 13 catchers. The operations in 1947 commenced in the middle of July and closed on October 31st the same year, and the output of oil amounted to 3,403 barrels. Off the coast of Natal whaling was carried on in 1947 from the same shore station as in the preceding years, but 13 catchers were operating as against 8 in 1946 and 5 during the war. In 1947 44,274 barrels of oil were produced as compared to 30,552 barrels in 1946. The increased production is undoubtedly due to the increased number of catchers engaged.

From the specification as to the species it will appear that there is a marked increase in the fin-whale catch, while the sperm-whale catch on the other hand has declined considerably in spite of the larger number of catchers operating.

Table *l*, on page 19, is recording the operations from shore stations in the Pacific North. Since the publication of International Whaling Statistics No. XIX, particulars have been received from British Columbia for 1940, 1941, 1942 and 1943, and the table has been corrected accordingly. Whaling from British Columbia ceased in 1944, but according to information received, operations were resumed in 1948. In 1947 whaling was also resumed from the coast of California, from 1 shore station and 2 catchers.

In 1946 Japanese companies commenced pelagic whaling around the Bonin Island with one small factory ship and 2 catchers. In 1947 3 small floating factories and 4 catchers were operating. The total number of whales killed was 364 and the oil production 772 barrels. In addition to the oil the floating factories brought home to Japan 2,721 metr. tons of meat and blubber.

Along the coast of Japan are situated several shore stations, the majority of which resumed whaling in 1946. From table *m*, on page 20, will be seen that

Table o.—Coast of Chile and Peru.

Years	Species of whales caught.							Oil production.	Expeditions.		
	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.	Total of whales.		Shore stations.	Floating factories.	Catchers.
								Barrels.			
1934	18	117	12	—	185	<sup>1)</sup> 35	367	13,626	3	—	?
1935	40	71	29	85	173	<sup>2)</sup> 71	469	16,633	3	1	5
1936	174	235	18	10	2,109	<sup>3)</sup> 1	2,547	70,642	2	2	19
1937	81	130	18	3	3,888	—	4,120	101,756	<sup>4)</sup> 2	3	<sup>4)</sup> 25
1938	15	56	6	44	767	<sup>3)</sup> 14	902	21,148	<sup>5)</sup> —	<sup>5)</sup> 1	<sup>5)</sup> 8
1939	2	99	7	15	279	<sup>3)</sup> 5	407	5,797	1	1	4
1940	—	—	—	—	—	—	—	—	—	—	—
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
1944	2	61	—	—	304	—	367	13,863	1	—	3
1945	42	80	—	—	365	—	487	20,784	1	—	3
1946	11	224	13	1	336	—	585	17,557	1	—	4
1947	23	85	14	2	3,556	—	3,680	128,822	1	2	20

<sup>1)</sup> 15 right-whales and 20 others. <sup>2)</sup> Different kinds of small whales and 36 right-whales. <sup>3)</sup> Right whales. <sup>4)</sup> The figures for the shore stations on the coast of Chile and the number of catchers attached thereto are not confirmed by the companies. <sup>5)</sup> No information as to the material in operation off the coast of Chile.

15 shore stations and 38 catchers were operating in 1947. The number of whales killed in 1947 declined by 108 animals from 1946, while the oil production increased from 5,719 barrels in 1946 to 6,177 barrels in 1947. Some of the 15 shore stations were operating for a short time only, and the catchers were transferred from one station to another. The catch at the different stations varied from 2 to 584 whales. In addition to the oil, 19,848 metr. tons of meat and blubber were produced.

Table p.—Whaling off the coast of 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.	
								Barrels.				
1934.....	—	—	52	—	—	—	52	1,554	1	—	<sup>1)</sup> —	
1935.....	—	—	57	—	—	—	57	1,542	1	—	<sup>1)</sup> —	
1936.....	—	—	69	—	—	—	69	1,673	1	—	<sup>1)</sup> —	
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	—	—	

<sup>1)</sup> No information as to the number of catchers.

Since the publication of volume No. XIX reports have been received concerning the whaling results of the Sovjet-Russian floating factory, operating off Kamtchatka in 1946. See table *n*, page 21.

As will be seen from this table, the floating factory operated with 3 catchers and killed 466 whales, yielding 16,141 barrels of oil. Whaling has also been carried on in 1944, 1945 and 1947, but the statistical data relating to these years are not yet available.

Whaling from the coast of Chile and Peru in 1947 resulted in 3,680 whales killed, yielding 128,822 barrels of oil. As will appear from table *o*, on page 22, this is an increase in the production, as compared with 1946, of 111,265 barrels. This increase, as previously mentioned, is mainly due to the fact that 2 floating factories were engaged in sperm-whale catching off the coast of Peru in 1947 and produced 105,986 barrels of sperm-oil. The production in 1947 was the greatest ever recorded on these grounds.

Table *p* shows the whaling activities from New Zealand during the period 1934-1947.

It will be observed that the statistics recorded in International Whaling Statistics No. XIX (table *m*, on page 17) is not correct. The Marine Department of New Zealand has now sent in revised figures, included in table *p*, page 22. The tables recording the total catch in the different years have been corrected in accordance with the new data from New Zealand.

In 1948 whaling on grounds outside the Antarctic has been carried on approximately to the same extent as in 1947. One floating factory only has been engaged in sperm-whale catching off the coast of Peru. One company has commenced operations from Spanish Marocco, and on Iceland a new shore station has been established. The statistics concerning the summer season 1948 will be published in International Whaling Statistics No. XXIII.

---





Table No. 1.—Whaling in 1946/47 and summer 1947.

Geographical areas.	Species of whales caught.							Oil production.	Expeditions.		
	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.	Total of whales.		Shore stations.	Floating factories.	Catchers.
South Georgia . . . .	327	1,670	28	391	133 <sup>2)</sup>	1	2,550	Barrel = 1/8 ton. <sup>1)</sup> 145,318	3	—	18
Antarctic, pelagic whaling . . . . .	8,865	12,877	1	2	1,298	—	23,043	1,794,424	—	15	129
Coast of Africa:—											
Coast of Natal . .	18	485	90	119	502	—	1,214	44,274	1	—	13
Cape Colony . . . .	1	44	5	39	48 <sup>3)</sup>	55	192	3,403	1	—	5
Atlantic and Arctic:											
Azores . . . . .	—	—	—	—	465	—	465	12,974	—	—	—
Madeira . . . . .	—	—	—	—	109	—	109	2,585	—	—	—
Coast of Portugal	—	111	—	—	50	—	161	3,978	1	—	3
Coast of Norway . .	11	285	—	12	16	—	324	10,871	3	—	9
Faroe Islands . . .	3	196	—	2	15	—	216	6,286	2	—	4
Coast of West Greenland . . . . .	4	51	5	2	6	—	68 <sup>4)</sup>	—	—	—	1
New Foundland . .	14	413	6	4	18	—	455	18,600	2	—	7
Pacific North:—											
California . . . . .	—	17	13	3	5	—	38	1,365	1	—	2
Coast of Peru, pelagic whaling . .	—	1	2	—	2,887	—	2,890	105,986	—	2	15
Coast of Chile . . . .	23	84	12	2	669	—	790	22,836	1	—	5
Coast of Japan . . . .	30	257	8	383	964	—	1,642	4) 6,177	15	—	38
Bonin Island, pelagic whaling . .	4	—	1	158	201	—	364	4) 772	—	3	4
Coast of West Australia . . . . .	—	—	2	—	—	—	2	40	1	—	1
New Zealand . . . . .	1	—	101	—	9	—	111	3,825	1	—	—
<b>Total</b>	<b>9,301</b>	<b>16,491</b>	<b>274</b>	<b>1,117</b>	<b>7,395</b>	<b>56</b>	<b>34,634</b>	<b>2,183,714</b>	<b>32</b>	<b>20</b>	<b>254</b>

<sup>1)</sup> 1 ton = 1,016 kg. <sup>2)</sup> Right-whale. <sup>3)</sup> Bryde-whales. <sup>4)</sup> The whale is mainly used for human food.

Table No. 2.—Norwegian whaling in 1946/47 and summer 1947.

Geographical areas.	Species of whales caught.							Oil production.	Expeditions.		
	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.	Total of whales.		Shore stations.	Floating factories.	Catchers.
South Georgia . . . . .	88	505	8	139	26	<sup>1)</sup> 1	767	Barrel = 1/8 ton. 43,520	1	—	6
Antarctic, pelagic . .	4,344	6,776	—	—	646	—	11,766	937,318	—	7	57
Coast of Norway . . .	11	285	—	12	16	—	324	10,871	3	—	9
<b>Total</b>	<b>4,443</b>	<b>7,566</b>	<b>8</b>	<b>151</b>	<b>688</b>	<b>1</b>	<b>12,857</b>	<b>991,709</b>	<b>4</b>	<b>7</b>	<b>72</b>

<sup>1)</sup> Right-whale.

**Table No. 3.—British whaling in 1946/47 and summer 1947.**

Geographical areas.	Species of whales caught.							Oil production.	Expeditions.		
	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.	Total of whales.		Shore stations.	Floating factories.	Catchers.
South Georgia . . . .	110	677	10	92	37	—	926	Barrel = 1/6 ton. 53,968	1	—	6
Antarctic, pelagic ..	3,273	5,043	—	2	628	—	8,946	671,501	—	4	44
Coast of Natal . . . .	18	485	90	119	502	—	1,214	44,274	1	—	13
Cape Colony . . . . .	1	44	5	39	48 <sup>1)</sup>	55	192	3,403	1	—	5
New Foundland . . . .	14	413	6	4	18	—	455	18,600	2	—	7
Coast of Peru, pelagic	—	1	2	—	2,887	—	2,890	105,986	—	2	15
New Zealand . . . . .	1	—	101	—	9	—	111	3,825	1	—	—
Coast of West Australia . . . . .	—	—	2	—	—	—	2	40	1	—	1
<b>Total</b>	<b>3,417</b>	<b>6,663</b>	<b>216</b>	<b>256</b>	<b>4,129</b>	<b>55</b>	<b>14,736</b>	<b>901,597</b>	<b>7</b>	<b>6</b>	<b>91</b>

<sup>1)</sup> Bryde-whales.**Table No. 4.—Whaling results for the various countries in 1946/47 and summer 1947.**

Countries.	Species of whales caught.							Oil production.	Expeditions.		
	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.	Total of whales.		Shore stations.	Floating factories.	Catchers.
Norway . . . . .	4,443	7,566	8	151	688 <sup>1)</sup>	1	12,857	Barrel = 1/6 ton. 991,709	4	7	72
British Empire . . . .	3,417	6,663	216	256	4,129 <sup>2)</sup>	55	14,736	901,597	7	6	91
Japan . . . . .	727	735	9	541	1,169	—	3,181	80,244	15	5	54
Holland . . . . .	401	354	—	—	15	—	770	77,310	—	1	8
Argentina . . . . .	129	488	10	160	70	—	857	47,830	1	—	6
Sovjet Russia . . . . .	154	226	1	—	5	—	386	35,000	—	1	8
Chile . . . . .	23	84	12	2	669	—	790	22,836	1	—	5
Portugal . . . . .	—	111	—	—	624	—	735	19,537	1	—	3
Denmark . . . . .	7	247	5	4	21	—	284	6,286	2	—	5
United States . . . . .	—	17	13	3	5	—	38	1,365	1	—	2
<b>Total</b>	<b>9,301</b>	<b>16,491</b>	<b>274</b>	<b>1,117</b>	<b>7,395</b>	<b>56</b>	<b>34,634</b>	<b>2,183,714</b>	<b>32</b>	<b>20</b>	<b>254</b>

<sup>1)</sup> Right-whale. <sup>2)</sup> Bryde-whales.**Table No. 5.—Average size of whales caught in the summer season 1947.**

Geographical areas. Number of whales measured.	Company.	Average size.		
		Males.	Females.	Total animals.
<b>A. Blue-whales.</b>				
<i>Atlantic and Arctic:—</i>				
Coast of Norway . . . . .	No. 1	72.67	76.50	73.63
Males 8 } Total 11.	„ 2	65.00	66.00	65.50
Females 3 }	„ 3	55.00	—	—
Average		69.50	73.00	70.45

Table No. 5 (continued).

Geographical areas. Number of whales measured.	Company.	Average size.		
		Males.	Females.	Total animals.
		Engl. feet.	Engl. feet.	Engl. feet.
Faroe Islands .....	No. 1	66.00	—	—
Males 3.	„ 2	78.00	—	—
Average		70.00	—	—
Coast of West Greenland.....	—	75.00	74.50	74.75
Males 2 } Total 4.				
Females 2 }				
New Foundland .....	No. 1	74.57	77.33	75.40
Males 7 } Total 10.				
Females 3 }				
Atlantic and Arctic, total ....	--	71.90	75.00	72.79
Males 20 } Total 28.				
Females 8 }				
<i>Coast of Africa:—</i>				
Coast of Natal .....	—	68.00	69.00	68.72
Males 5 } Total 18.				
Females 13 }				
Cape Colony .....	—	—	71.00	—
Female 1.				
Coast of Africa, total .....	—	68.00	69.14	68.84
Males 5 } Total 19.				
Females 14 }				
<i>Coast of Chile .....</i>	—	69.37	79.25	71.09
Males 19 } Total 23.				
Females 4 }				
<i>Pacific North:—</i>				
Coast of Japan .....	No. 1	72.00	74.82	74.38
Males 6 } Total 30.	„ 2	69.50	73.40	72.29
Females 24 }	„ 3	66.50	72.63	71.40
Average		69.33	73.79	72.90
Bonin Island, pelagic .....	—	72.00	—	—
Males 4.				
Pacific North, total.....	—	70.40	73.79	72.79
Males 10 } Total 34.				
Females 24 }				
<b><u>B. Fin-whales.</u></b>				
<i>Atlantic and Arctic:—</i>				
Coast of Norway .....	No. 1	57.85	64.06	60.96
Males 138 } Total 285.	„ 2	56.96	62.59	59.75
Females 147 }	„ 3	59.91	59.58	59.73
Average		58.19	61.76	60.03
Faroe Islands .....	No. 1	58.44	61.10	59.58
Males 106 } Total 196.	„ 2	58.08	59.87	58.99
Females 90 }				
Average		58.31	60.57	59.35

Table No. 5 (continued).

Geographical areas. Number of whales measured.	Company.	Average size.		
		Males.	Females.	Total animals.
Coast of West Greenland..... Males 29 } Total 51. Females 22 }	—	Engl. feet. 57.83	Engl. feet. 59.00	Engl. feet. 58.33
New Foundland..... Males 135 } Total 264. Females 129 }	No. 1	60.20	63.53	61.83
Atlantic and Arctic, total.... Males 408 } Total 796. Females 388 }	--	58.86	61.91	60.35
<i>Coast of Africa:—</i>				
Coast of Natal..... Males 259 } Total 485. Females 226 }	--	60.76	61.00	60.87
Cape Colony..... Males 26 } Total 44. Females 18 }	—	56.35	55.33	55.93
Coast of Africa, total..... Males 285 } Total 529. Females 244 }	—	60.35	60.58	60.46
<i>Coast of Chile:—</i>				
Males 49 } Total 84. Females 35 }	—	55.37	56.97	56.04
<i>Coast of Peru, pelagic:—</i>				
Male 1.	—	58.00	—	—
<i>Pacific North:—</i>				
California..... Males 7 } Total 17. Females 10 }	--	59.14	61.60	60.59
Coast of Japan..... Males 128 } Total 257. Females 129 }	No. 1 " 2 " 3	58.59 57.44 57.34	59.00 58.85 58.57	58.79 58.41 57.92
Average		57.88	58.78	58.33
Pacific North, total..... Males 135 } Total 274. Females 139 }	—	57.94	58.99	58.47
<b><u>C. Humpbacks.</u></b>				
Atlantic and Arctic, total..... Males 3 } Total 9. Females 6 }	—	40.67	41.50	41.22
<i>Coast of Africa:—</i>				
Coast of Natal..... Males 51 } Total 90. Females 39 }	—	38.53	39.15	38.80

Table No. 5 (continued).

Geographical areas. Number of whales measured.	Company.	Average size.		
		Males.	Females.	Total animals.
		Engl. feet.	Engl. feet.	Engl. feet.
Cape Colony .....	—	—	44.40	—
Females 5.				
Coast of Africa, total .....	—	38.53	39.75	39.09
Males 51 } Total 95.				
Females 44 }				
<i>Coast of Chile</i> .....	--	46.00	42.40	44.50
Males 7 } Total 12.				
Females 5 }				
<i>Coast of Peru</i> , pelagic.....	—	37.50	—	—
Males 2.				
<i>Pacific North</i> :—				
California .....	--	42.00	41.75	41.85
Males 5 } Total 13.				
Females 8 }				
Coast of Japan.....	No. 1	45.00	36.00	40.50
Males 5 } Total 8.	„ 2	39.25	42.00	40.17
Females 3 }				
Average		40.40	40.00	40.25
Bonin Island, pelagic .....	—	—	44.00	—
Female 1.				
Pacific North, total.....	—	41.20	41.50	41.36
Males 10 } Total 22.				
Females 12 }				
<i>Coast of West Australia</i> .....	—	36.00	39.00	37.50
Male 1 } Total 2.				
Female 1 }				
<b><u>D. Sei-whales.</u></b>				
<i>Atlantic and Arctic</i> , total.....	--	44.92	44.88	44.90
Males 12 } Total 20.				
Females 8 }				
<i>Coast of Africa</i> :—				
Coast of Natal .....	—	42.82	43.61	43.18
Males 65 } Total 119.				
Females 54 }				
Cape Colony .....	—	45.64	46.92	46.46
Males 14 } Total 39.				
Females 25 }				
Coast of Africa, total .....	—	43.32	44.66	43.99
Males 79 } Total 158.				
Females 79 }				
<i>Coast of Chile</i> .....	—	—	46.50	—
Females 2.				

Table No. 5 (continued).

Geographical areas. Number of whales measured.	Company.	Average size.		
		Males.	Females.	Total animals.
<i>Pacific North:—</i>	—	Engl. feet.	Engl. feet.	Engl. feet.
California . . . . .	—	—	52.33	—
Females 3.				
Coast of Japan . . . . .	No. 1	43.54	45.24	44.55
Males 157 } Total 383.	" 2	42.87	44.11	43.54
Females 226 }	" 3	42.04	42.07	42.06
Average		43.01	44.15	43.68
Bonin Island, pelagic . . . . .	—	41.74	42.24	41.97
Males 82 } Total 150.				
Females 68 }				
Pacific North, total . . . . .		42.58	43.79	43.25
Males 239 } Total 536.				
Females 297 }				
<b><u>E. Sperm-whales.</u></b>				
<i>Atlantic and Arctic:—</i>				
Coast of Norway . . . . .	No. 1	53.50	—	—
Males 15 } Total 16.	" 2	52.67	—	—
Females 1 }	" 3	51.00	55.00	51.80
Average		52.33	55.00	52.50
Faroe Islands . . . . .	No. 1	52.00	—	—
Males 15.	" 2	47.85	—	—
Average		48.40	—	—
Coast of West Greenland . . . . .	—	52.67	—	—
Males 6.				
New Foundland . . . . .	No. 1	54.06	—	—
Males 16.				
Atlantic and Arctic, total . . . . .	—	51.77	55.00	51.83
Males 52 } Total 53.				
Females 1 }				
<i>Coast of Africa:—</i>				
Coast of Natal . . . . .	--	43.63	32.82	39.20
Males 296 } Total 502.				
Females 206 }				
Cape Colony . . . . .	—	44.37	36.50	44.04
Males 46 } Total 48.				
Females 2 }				
Coast of Africa, total . . . . .	—	43.73	32.86	39.62
Males 342 } Total 550.				
Females 208 }				
<i>Coast of Chile . . . . .</i>	—	43.06	35.98	40.26
Males 404 } Total 669.				
Females 265 }				

Table No. 5 (continued).

Geographical areas. Number of whales measured.	Company.	Average size.		
		Males.	Females.	Total animals.
<i>Coast of Peru, pelagic</i> .....	No. 1	Engl. feet. 44.55	Engl. feet. 34.94	Engl. feet. 43.50
Males 2,589 } Total 2,887.	" 2	43.39	34.37	42.74
Females 298 }	Average	44.37	34.88	43.39
<i>Pacific North:—</i>				
California .....	—	43.60	—	—
Males 5.				
<i>Coast of Japan</i> .....	No. 1	41.37	33.87	37.38
Males 450 } Total 964.	" 2	41.35	33.45	37.20
Females 514 }	" 3	41.05	33.21	36.64
Average		41.31	33.58	37.16
<i>Bonin Island, pelagic</i> .....	—	39.14	35.83	36.82
Males 58 } Total 195.				
Females 137 }				
<i>Pacific North, total</i> .....	—	41.09	34.01	37.13
Males 513 } Total 1,164.				
Females 651 }				
<b><u>F. Bryde-whales.</u></b>				
<i>Coast of Africa:—</i>				
Cape Colony .....	—	43.10	44.91	44.25
Males 20 } Total 55.				
Females 35 }				

Table No. 6.—Whales caught in the summer season 1947,  
by species, sex, and size.

## I. Coast of Norway.

## Blue-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
55	1	—	1	78	—	—	—
65	1	—	1	79	—	1	1
66	—	1	1	80	—	—	—
67	1	—	1	81	1	—	1
68	1	—	1	Sum	8	3	11
69	—	—	—	Average size { Males: 69.50 feet Females: 73.00 " Total animals: 70.45 "			
70	1	—	1				
71	—	—	—				
72	—	—	—				
73	—	—	—				
74	—	1	1	Per cent { Males: 72.73 Females: 27.27			
75	2	—	2				
76	—	—	—				
77	—	—	—				
77	—	—	—				



Table No. 6 (continued).

## Fin-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
46	-	1	1	65	5	9	14
47	-	-	-	66	3	14	17
48	-	-	-	67	-	10	10
49	-	-	-	68	1	7	8
50	7	6	13	69	1	8	9
51	12	2	14	70	-	5	5
52	5	3	8	71	-	2	2
53	4	3	7	72	-	2	2
54	6	10	16	73	-	1	1
55	6	10	16	74	-	-	-
56	8	6	14	75	-	1	1
57	6	1	7				
58	11	5	16	Sum	138	147	285
59	7	4	11				
60	18	3	21	Average size	Males: 58.19 feet		
61	14	7	21		Females: 61.76 "		
62	8	5	13		Total animals: 60.03 "		
63	13	9	22	Per cent	Males: 48.42		
64	3	13	16		Females: 51.58		

## Sei-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
39	-	1	1				
40	-	-	-				
41	-	-	-				
42	-	1	1	Average size	Males: 44.86 feet		
43	2	-	2		Females: 44.20 "		
44	-	-	-		Total animals: 44.58 "		
45	3	1	4	Per cent	Males: 58.33		
46	1	1	2		Females: 41.67		
47	1	-	1				
48	-	-	-				
49	-	1	1				
Sum	7	5	12				

## Sperm-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
48	2	-	2	58	-	-	-
49	-	-	-	59	1	-	1
50	3	-	3	Sum	15	1	16
51	-	-	-				
52	3	-	3	Average size	Males: 52.33 feet		
53	2	-	2		Females: 55.00 "		
54	2	-	2		Total animals: 52.50 "		
55	2	1	3	Per cent	Males: 93.75		
56	-	-	-		Females: 6.25		
57	-	-	-				

Table No. 6 (continued).

## 2. Faroe Islands.

## Blue-whales.

Engl. feet.	Number of males.
66	2
78	1
Sum	3

Average size:— Males: 70.00 feet

## Fin-whales.

Engl. feet.	Number of		Total animals	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
44	1	1	2	63	4	5	9
45	—	—	—	64	6	4	10
46	—	1	1	65	2	6	8
47	—	—	—	66	2	6	8
48	5	—	5	67	1	4	5
49	1	—	1	68	—	4	4
50	3	5	8	69	—	—	—
51	2	2	4	70	—	2	2
52	1	4	5	71	—	3	3
53	3	—	3	72	—	1	1
54	6	2	8	Sum	106	90	196
55	4	2	6	Average size {			Males: 58.31 feet
56	5	4	9	Average size {			Females: 60.57 "
57	5	3	8	Average size {			Total animals: 59.35 "
58	8	6	14	Per cent {			Males: 54.08
59	7	3	10	Per cent {			Females: 45.92
60	18	7	25				
61	10	9	19				
62	12	6	18				

## Sei-whales.

Engl. feet.	Number of		Total animals.
	males.	females.	
40	1	—	1
44	—	1	1
Sum	1	1	2

Average size: Total animals: 42.00 feet.

Table No. 6 (continued).

## Sperm-whales.

Engl. feet.	Number of males.	Engl. feet.	Number of males.
38	1	48	1
39	1	49	-
40	-	50	3
41	-	51	1
42	-	52	1
43	-	53	-
44	-	54	2
45	1	55	1
46	1		
47	2	Sum	15

Average size:— Males: 48.40 feet.

## 3. Coast of West Greenland.

## Blue-whales.

Engl. feet.	Number of		Total animals.	
	males.	females.		
73	-	1	1	Average size { Males: 75.00 feet Females: 74.50 " Total animals: 74.75 "
74	-	-	-	
75	2	-	2	
76	-	1	1	Per cent { Males: 50.00 Females: 50.00
Sum	2	2	4	

## Fin-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
47	1	-	1	60	3	2	5
48	-	-	-	61	2	3	5
49	-	-	-	62	1	3	4
50	-	1	1	63	1	3	4
51	-	-	-	64	1	-	1
52	-	1	1	Sum	29	22	51
53	-	-	-	Average size { Males: 57.83 feet Females: 59.00 " Total animals: 58.33 "			
54	1	1	2				
55	4	1	5				
56	4	-	4				
57	2	-	2				
58	4	4	8				
59	5	3	8				
				Per cent { Males: 56.86 Females: 43.14			

Table No. 6 (continued).

## Humpbacks.

Engl. feet.	Number of		Total animals.	
	males.	females.		
42	1	—	1	Average size { Males: 43.00 feet Females: 45.33 „ Total animals: 44.40 „
43	—	1	1	
44	1	1	2	
49	—	1	1	
Sum	2	3	5	Per cent { Males: 40.00 Females: 60.00

## Sei-whales.

Engl. feet	Number of males.
48	1
49	1
Sum	2

Average size: Males: 48.50 feet.

## Sperm-whales.

Engl. feet.	Number of males.	Engl. feet.	Number of males.
50	1	54	1
51	2	55	2
52	—	Sum	6
53	—		

Average size:— Males: 52.67 feet.

4. New Foundland.<sup>1)</sup>

## Blue-whales.

Engl. feet.	Number of		Total animals.	
	males.	females.		
66	1	—	1	Average size { Males: 74.57 feet Females: 77.33 „ Total animals: 75.40 „
72	1	—	1	
73	1	—	1	
74	2	—	2	
75	—	1	1	
76	—	—	—	
77	1	—	1	
78	—	1	1	
79	—	1	1	
86	1	—	1	
Sum	7	3	10	Per cent { Males: 70.00 Females: 30.00

<sup>1)</sup> Specification for 1 shore station.

Table No. 6 (continued).

## Fin-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
48	1	—	1	65	15	20	35
49	—	—	—	66	1	11	12
50	2	—	2	67	—	17	17
51	—	—	—	68	—	9	9
52	1	—	1	69	—	4	4
53	—	—	—	70	—	5	5
54	—	—	—	71	—	1	1
55	11	11	22	72	—	1	1
56	8	4	12	Sum	135	129	264
57	5	4	9	Average size	{ Males: 60.20 feet Females: 63.53 " Total animals: 61.83 "		
58	5	3	8	Per cent	{ Males: 51.14 Females: 48.86		
59	12	2	14				
60	24	7	31				
61	18	5	23				
62	14	7	21				
63	8	11	19				
64	10	7	17				

## Humpbacks.

Engl. feet.	Number of		Total animals.	Average size	Per cent
	males.	females.			
35	—	2	2	{ Males: 36.00 feet Females: 37.66 " Total animals: 37.25 "	{ Males: 25.00 Females: 75.00
36	1	—	1		
43	—	1	1		
Sum	1	3	4		

## Sei-whales.

Engl. feet.	Number of		Total animals.	Average size	Per cent
	males.	females.			
42	1	—	1	{ Males: 44.00 feet Females: 47.00 " Total animals: 45.50 "	{ Males: 50.00 Females: 50.00
43	—	1	1		
44	—	—	—		
45	—	—	—		
46	1	—	1		
51	—	1	1		
Sum	2	2	4		

Table No. 6 (continued).

## Sperm-whales.

Engl. feet.	Number of males	Engl. feet	Number of males
49	3	56	1
50	—	57	2
51	—	58	1
52	1	59	—
53	2	60	1
54	3		
55	2	Sum	16

Average size:— Males: 54.06 feet.

## 5. Summary Atlantic and Arctic.

## Blue-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
55	1	—	1	78	1	1	2
65	1	—	1	79	—	2	2
66	3	1	4	80	—	—	—
67	1	—	1	81	1	—	1
68	1	—	1	86	1	—	1
69	—	—	—	Sum	20	8	28
70	1	—	1	Average size { Males: 71.90 feet Females: 75.00 " Total animals: 72.79 "  Per cent { Males: 71.43 Females: 28.57			
71	—	—	—				
72	1	—	1				
73	1	1	2				
74	2	1	3				
75	4	1	5				
76	—	1	1				
77	1	—	1				

## Fin-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
44	1	1	2	64	20	24	44
45	—	—	—	65	22	35	57
46	—	2	2	66	6	31	37
47	1	—	1	67	1	31	32
48	6	—	6	68	1	20	21
49	1	—	1	69	1	12	13
50	12	12	24	70	—	12	12
51	14	4	18	71	—	6	6
52	7	8	15	72	—	4	4
53	7	3	10	73	—	1	1
54	13	13	26	74	—	—	—
55	25	24	49	75	—	1	1
56	25	14	39	Sum	408	388	796
57	18	8	26	Average size { Males: 58.86 feet Females: 61.91 " Total animals: 60.35 "  Per cent { Males: 51.26 Females: 48.74			
58	28	18	46				
59	31	12	43				
60	63	19	82				
61	44	24	68				
62	35	21	56				
63	26	28	54				

Table No. 6 (continued).

## Humpbacks.

Engl. feet.	Number of		Total animals.	
	males.	females.		
35	—	2	2	Average size { Males: 40.67 feet Females: 41.50 " Total animals: 41.22 "
36	1	—	1	
42	1	—	1	
43	—	2	2	
44	1	1	2	
49	—	1	1	
Sum	3	6	9	Per cent { Males: 33.33 Females: 66.67

## Sei-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
39	—	1	1	50	—	—	—
40	1	—	1	51	—	1	1
41	—	—	—	Sum	12	8	20
42	1	1	2	Average size { Males: 44.92 feet Females: 44.88 " Total animals: 44.90 "			
43	2	1	3				
44	—	1	1				
45	3	1	4				
46	2	1	3				
47	1	—	1				
48	1	—	1				
49	1	1	2				
					Per cent { Males: 60.00 Females: 40.00		

## Sperm-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
38	1	—	1	56	1	—	1
39	1	—	1	57	2	—	2
45	1	—	1	58	1	—	1
46	1	—	1	59	1	—	1
47	2	—	2	60	1	—	1
48	3	—	3	Sum	52	1	53
49	3	—	3	Average size { Males: 51.77 feet Females: 55.00 " Total animals: 51.83 "			
50	7	—	7				
51	3	—	3				
52	5	—	5				
53	4	—	4				
54	8	—	8				
55	7	1	8				
					Per cent { Males: 98.11 Females: 1.89		

Table No. 6 (continued).

## 6. Coast of Natal.

## Blue-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
60	-	1	1	79	1	1	2
65	3	2	5	80	-	-	-
66	1	2	3	81	-	1	1
67	-	1	1	Sum	5	13	18
68	-	2	2	Average size {			Males: 68.00 feet
69	-	1	1				Females: 69.00 "
70	-	-	-				Total animals: 68.72 "
71	-	1	1	Per cent {			Males: 27.78
72	-	1	1				Females: 72.22
73	-	-	-				
74	-	-	-				

## Fin-whales.

46	1	-	1	68	10	7	17
47	-	-	-	69	5	1	6
48	1	-	1	70	5	7	12
49	-	1	1	71	4	5	9
50	7	10	17	72	2	4	6
51	11	7	18	73	3	2	5
52	4	10	14	74	-	5	5
53	8	9	17	75	-	-	-
54	14	5	19	76	-	2	2
55	11	13	24	77	-	-	-
56	9	11	20	78	-	1	1
57	13	9	22	79	-	2	2
58	14	11	25	80	-	-	-
59	10	8	18	81	-	1	1
60	14	11	25	Sum	259	226	485
61	16	13	29	Average size {			Males: 60.76 feet
62	15	21	36				Females: 61.00 "
63	19	10	29				Total animals: 60.87 "
64	13	11	24	Per cent {			Males: 53.40
65	21	12	33				Females: 46.60
66	14	13	27				
67	15	4	19				

## Humpbacks.

30	1	1	2	44	2	1	3
31	-	-	-	45	2	2	4
32	3	-	3	46	-	-	-
33	1	-	1	47	1	1	2
34	2	3	5	48	-	2	2
35	7	4	11	49	1	-	1
36	5	3	8	Sum	51	39	90
37	5	3	8	Average size {			Males: 38.53 feet
38	3	6	9				Females: 39.15 "
39	1	1	2				Total animals: 38.80 "
40	8	6	14	Per cent {			Males: 56.67
41	1	1	2				Females: 43.33
42	4	4	8				
43	4	1	5				



Table No. 6 (continued).

## Sei-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
40	18	16	34	51	-	2	2
41	3	7	10	52	-	-	-
42	13	5	18	53	1	2	3
43	6	1	7	Sum	65	54	119
44	11	4	15	Average size { Males: 42.82 feet			
45	4	7	11	{ Females: 43.61 "			
46	5	4	9	{ Total animals: 43.18 "			
47	3	1	4	Per cent { Males: 54.62			
48	1	2	3	{ Females: 45.38			
49	-	1	1				
50	-	2	2				

## Sperm-whales.

30	11	38	49	48	13	-	13
31	1	35	36	49	7	-	7
32	4	27	31	50	29	-	29
33	2	26	28	51	23	-	23
34	7	23	30	52	13	-	13
35	16	39	55	53	7	-	7
36	12	7	19	54	10	-	10
37	20	5	25	55	3	-	3
38	10	4	14	56	1	-	1
39	6	2	8	Sum	296	206	502
40	18	-	18	Average size { Males: 43.63 feet			
41	13	-	13	{ Females: 32.82 "			
42	9	-	9	{ Total animals: 39.20 "			
43	13	-	13	Per cent { Males: 58.96			
44	9	-	9	{ Females: 41.04			
45	13	-	13				
46	15	-	15				
47	11	-	11				

## 7. Cape Colony.

## Blue-whales.

Engl. feet.	Female.
71	1

Table No. 6 (continued).

## Fin-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
44	-	1	1	66	-	-	-
52	5	3	8	67	-	-	-
53	1	4	5	68	-	1	1
54	5	2	7	69	-	-	-
55	1	1	2	70	-	-	-
56	5	2	7	71	1	-	1
57	3	1	4	Sum	26	18	44
58	-	-	-	Average size { Males: 56.35 feet			
59	1	-	1	{ Females: 55.33 "			
60	2	1	3	{ Total animals: 55.93 "			
61	-	-	-	Per cent { Males: 59.09			
62	-	2	2	{ Females: 40.91			
63	2	-	2				
64	-	-	-				
65	-	-	-				

## Humpbacks.

Engl. feet.	Number of females.
36	1
43	2
48	1
52	1
Sum	5

Average size: Females: 44.40 feet.

## Sei-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
40	1	-	1	50	-	3	3
41	-	-	-	51	2	3	5
42	-	1	1	Sum	14	25	39
43	3	3	6	Average size { Males: 45.64 feet			
44	-	2	2	{ Females: 46.92 "			
45	2	3	5	{ Total animals: 46.46 "			
46	4	3	7	Per cent { Males: 35.90			
47	2	2	4	{ Females: 64.10			
48	-	1	1				
49	-	4	4				

Table No. 6 (continued).

## Sperm-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
36	1	1	2	48	2	-	2
37	2	1	3	49	2	-	2
38	1	-	1	50	-	-	-
39	1	-	1	51	5	-	5
40	-	-	-	Sum	46	2	48
41	7	-	7	Average size	{ Males: 44.37 feet Females: 36.50 " Total animals: 44.04 "		
42	5	-	5	Per cent	{ Males: 95.83 Females: 4.17		
43	4	-	4				
44	2	-	2				
45	1	-	1				
46	8	-	8				
47	5	-	5				

## Bryde-whales.

32	1	-	1	46	1	1	2
33	-	1	1	47	1	6	7
34	-	-	-	48	-	4	4
35	2	1	3	49	1	3	4
36	-	-	-	50	-	1	1
37	-	1	1	51	1	1	2
38	-	-	-	Sum	20	35	55
39	-	-	-	Average size	{ Males: 43.10 feet Females: 44.91 " Total animals: 44.25 "		
40	-	-	-	Per cent	{ Males: 36.36 Females: 63.64		
41	1	-	1				
42	2	2	4				
43	2	6	8				
44	4	3	7				
45	4	5	9				

## 8. Summary Coast of Natal and Cape Colony.

## Blue-whales.

60	-	1	1	79	1	1	2
65	3	2	5	80	-	-	-
66	1	2	3	81	-	1	1
67	-	1	1	Sum	5	14	19
68	-	2	2	Average size	{ Males: 68.00 feet Females: 69.14 " Total animals: 68.84 "		
69	-	1	1	Per cent	{ Males: 26.32 Females: 73.68		
70	-	-	-				
71	-	2	2				
72	-	1	1				
73	-	-	-				
74	-	-	-				

Table No. 6 (continued).

## Fin-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
44	—	1	1	67	15	4	19
45	—	—	—	68	10	8	18
46	1	—	1	69	5	1	6
47	—	—	—	70	5	7	12
48	1	—	1	71	5	5	10
49	—	1	1	72	2	4	6
50	7	10	17	73	3	2	5
51	11	7	18	74	—	5	5
52	9	13	22	75	—	—	—
53	9	13	22	76	—	2	2
54	19	7	26	77	—	—	—
55	12	14	26	78	—	1	1
56	14	13	27	79	—	2	2
57	16	10	26	80	—	—	—
58	14	11	25	81	—	1	1
59	11	8	19	Sum	285	244	529
60	16	12	28	Average size			Males: 60.35 feet
61	16	13	29				Females: 60.58 "
62	15	23	38				Total animals: 60.46 "
63	21	10	31	Per cent			Males: 53.88
64	13	11	24				Females: 46.12
65	21	12	33				
66	14	13	27				

## Humpbacks.

30	1	1	2	46	—	—	—
31	—	—	—	47	1	1	2
32	3	—	3	48	—	3	3
33	1	—	1	49	1	—	1
34	2	3	5	50	—	—	—
35	7	4	11	51	—	—	—
36	5	4	9	52	—	1	1
37	5	3	8	Sum	51	44	95
38	3	6	9	Average size			Males: 38.53 feet
39	1	1	2				Females: 39.75 "
40	8	6	14				Total animals: 39.09 "
41	1	1	2	Per cent			Males: 53.68
42	4	4	8				Females: 46.32
43	4	3	7				
44	2	1	3				
45	2	2	4				

## Sei-whales.

40	19	16	35	51	2	5	7
41	3	7	10	52	—	—	—
42	13	6	19	53	1	2	3
43	9	4	13	Sum	79	79	158
44	11	6	17	Average size			Males: 43.32 feet
45	6	10	16				Females: 44.66 "
46	9	7	16				Total animals: 43.99 "
47	5	3	8	Per cent			Males: 50.00
48	1	3	4				Females: 50.00
49	—	5	5				
50	—	5	5				

Table No. 6 (continued).

## Sperm-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.		
	males.	females.			males.	females.			
30	11	38	49	48	15	-	15		
31	1	35	36	49	9	-	9		
32	4	27	31	50	29	-	29		
33	2	26	28	51	28	-	28		
34	7	23	30	52	13	-	13		
35	16	39	55	53	7	-	7		
36	13	8	21	54	10	-	10		
37	22	6	28	55	3	-	3		
38	11	4	15	56	1	-	1		
39	7	2	9	Sum	342	208	550		
40	18	-	18	Average size {				Males:	43.73 feet
41	20	-	20					Females:	32.86 "
42	14	-	14	Per cent {				Total animals:	39.62 "
43	17	-	17					Males:	62.18
44	11	-	11	Per cent {				Females:	37.82
45	14	-	14						
46	23	-	23						
47	16	-	16						

## Bryde-whales.

32	1	-	1	46	1	1	2		
33	-	1	1	47	1	6	7		
34	-	-	-	48	-	4	4		
35	2	1	3	49	1	3	4		
36	-	-	-	50	-	1	1		
37	-	1	1	51	1	1	2		
38	-	-	-	Sum	20	35	55		
39	-	-	-	Average size {				Males:	43.10 feet
40	-	-	-					Per cent {	
41	1	-	1	Per cent {					
42	2	2	4						
43	2	6	8					Females:	63.64
44	4	3	7						
45	4	5	9						

## 9. Coast of Chile.

## Blue-whales.

66	6	-	6	78	-	-	-		
67	3	-	3	79	-	1	1		
68	2	-	2	80	-	1	1		
69	2	-	2	81	1	-	1		
70	2	-	2	82	-	1	1		
71	-	-	-	Sum	19	4	23		
72	-	-	-	Average size {				Males:	69.37 feet
73	1	-	1					Per cent {	
74	-	-	-	Per cent {					
75	-	-	-						
76	1	1	2					Females:	17.39
77	1	-	1						

Table No. 6 (continued).

## Fin-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
39	2	-	2	61	1	1	2
40	-	-	-	62	3	1	4
41	2	-	2	63	1	1	2
42	-	-	-	64	2	-	2
43	-	-	-	65	-	1	1
44	-	1	1	66	2	1	3
45	-	-	-	67	-	-	-
46	1	-	1	68	-	-	-
47	-	-	-	69	1	-	1
48	-	-	-	70	-	-	-
49	4	-	4	71	-	-	-
50	-	-	-	72	-	-	-
51	3	-	3	73	1	1	2
52	2	-	2	Sum	49	35	84
53	-	2	2	Average size	{ Males: 55.37 feet Females: 56.97 " Total animals: 56.04 "		
54	10	9	19	Per cent	{ Males: 58.33 Females: 41.67		
55	3	3	6				
56	2	5	7				
57	2	3	5				
58	3	4	7				
59	3	-	3				
60	1	2	3				

## Humpbacks.

38	-	1	1	52	-	-	-
39	1	-	1	53	1	-	1
40	-	1	1	54	-	-	-
41	2	1	3	55	-	-	-
42	1	-	1	56	1	-	1
43	-	-	-	Sum	7	5	12
44	-	-	-	Average size	{ Males: 46.00 feet Females: 42.40 " Total animals: 44.50 "		
45	-	1	1	Per cent	{ Males: 58.33 Females: 41.67		
46	-	-	-				
47	-	-	-				
48	-	1	1				
49	-	-	-				
50	1	-	1				
51	-	-	-				

## Sei-whales.

Engl. feet.	Females.
42	1
51	1
Sum	2

Average size: Females: 46.50 feet.

Table No. 6 (continued).

Sperm-whales.								
Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.	
	males.	females.			males.	females.		
30	2	7	9	49	15	-	15	
31	1	6	7	50	15	-	15	
32	6	17	23	51	22	-	22	
33	8	16	24	52	9	-	9	
34	13	20	33	53	20	-	20	
35	10	34	44	54	9	-	9	
36	36	57	93	55	4	-	4	
37	36	27	63	56	10	-	10	
38	30	36	66	57	5	-	5	
39	24	35	59	58	4	-	4	
40	11	4	15	Sum	404	265	669	
41	27	3	30	Average size {				Males: 43.06 feet
42	9	-	9	Average size {				Females: 35.98 "
43	24	2	26	Average size {				Total animals: 40.26 "
44	15	1	16	Per cent {				Males: 60.39
45	7	-	7	Per cent {				Females: 39.61
46	11	-	11					
47	10	-	10					
48	11	-	11					

## 10. Coast of Peru, pelagic.

Fin-whales.		Humpbacks.	
Engl. feet.	Male.	Engl. feet.	Males.
58	1	29	1
		46	1

Average size: Males: 37.50 feet.

Sperm-whales.								
Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.	
	males.	females.			males.	females.		
14	1	-	1	49	135	-	135	
29	-	1	1	50	151	-	151	
30	-	5	5	51	127	-	127	
31	-	4	4	52	110	-	110	
32	5	15	20	53	81	-	81	
33	3	14	17	54	69	-	69	
34	3	10	13	55	29	-	29	
35	152	190	342	56	28	-	28	
36	108	35	143	57	-	-	-	
37	92	17	109	58	2	-	2	
38	121	3	124	59	-	-	-	
39	124	4	128	60	1	-	1	
40	170	-	170	Sum	2,589	298	2,887	
41	133	-	133	Average size {				Males: 44.37 feet
42	113	-	113	Average size {				Females: 34.88 "
43	143	-	143	Average size {				Total animals: 43.39 "
44	134	-	134	Per cent {				Males: 89.68
45	166	-	166	Per cent {				Females: 10.32
46	138	-	138					
47	120	-	120					
48	130	-	130					

Table No. 6 (continued).

## II. California.

## Fin-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
52	1	-	1	65	-	-	-
53	-	-	-	66	-	1	1
54	-	1	1	67	-	-	-
55	-	-	-	68	-	1	1
56	1	-	1	Sum	7	10	17
57	-	1	1	Average size { Males: 59.14 feet Females: 61.60 " Total animals: 60.59 "			
58	1	1	2				
59	-	-	-	Per cent { Males: 41.18 Females: 58.82			
60	1	-	1				
61	1	1	2				
62	-	1	1				
63	1	2	3				
64	1	1	2				

## Humpbacks.

38	1	1	2	47	-	-	-
39	-	1	1	48	-	1	1
40	1	-	1	Sum	5	8	13
41	-	2	2	Average size { Males: 42.00 feet Females: 41.75 " Total animals: 41.85 "			
42	1	2	3				
43	-	1	1	Per cent { Males: 38.46 Females: 61.54			
44	1	-	1				
45	-	-	-				
46	1	-	1				

## Sei-whales.

Engl. feet.	Females.
40	1
58	1
59	1
Sum	3

Average size: Females: 52.33 feet.

## Sperm-whales.

Engl. feet.	Number of males.	Engl. feet.	Number of males.
39	1	51	1
40	2	Sum	5
48	1		

Average size: Males: 43.60 feet.



Table No. 6 (continued).

## 12. Coast of Japan.

## Blue-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.				
	males.	females.			males.	females.					
65	-	2	2	79	-	1	1				
66	1	3	4	80	-	2	2				
67	3	2	5	81	-	-	-				
68	-	-	-	82	-	-	-				
69	-	1	1	83	-	1	1				
70	-	-	-	Sum	6	24	30				
71	-	-	-	Average size { Males: 69.33 feet Females: 73.79 " Total animals: 72.90 "							
72	1	-	1								
73	-	2	2								
74	-	1	1								
75	-	-	-								
76	-	1	1								
77	1	2	3								
78	-	6	6								
								Per cent { Males: 20.00 Females: 80.00			

## Fin-whales.

50	12	13	25	65	4	5	9				
51	5	9	14	66	1	7	8				
52	5	8	13	67	-	5	5				
53	5	4	9	68	-	4	4				
54	3	6	9	69	-	2	2				
55	6	4	10	70	-	1	1				
56	12	10	22	71	-	1	1				
57	4	7	11	72	-	1	1				
58	10	3	13	Sum	128	129	257				
59	10	3	13	Average size { Males: 57.88 feet Females: 58.78 " Total animals: 58.33 "							
60	14	7	21								
61	13	2	15								
62	10	6	16								
63	9	11	20								
64	5	10	15								
								Per cent { Males: 49.81 Females: 50.19			

## Humpbacks.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of	Total animals.
	males.	females.				
36	1	1	2	Average size { Males: 40.40 feet Females: 40.00 " Total animals: 40.25 "		
37	1	-	1			
38	-	-	-			
39	1	-	1			
40	-	-	-			
41	-	1	1			
42	-	-	-			
43	-	1	1			
44	-	-	-			
45	2	-	2			
Sum	5	3	8	Per cent { Males: 62.50 Females: 37.50		

## Sei-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
35	5	—	5	49	5	4	9
36	4	7	11	50	1	7	8
37	3	5	8	51	—	8	8
38	9	6	15	52	—	2	2
39	7	7	14	53	—	1	1
40	10	16	26	54	2	1	3
41	10	14	24	Sum	157	226	383
42	16	17	33	Average size { Males: 43.01 feet			
43	19	22	41	{ Females: 44.15 "			
44	16	22	38	{ Total animals: 43.68 "			
45	23	25	48	Per cent { Males: 40.99			
46	9	20	29	{ Females: 59.01			
47	11	28	39				
48	7	14	21				

## Sperm-whales.

27	—	1	1	47	22	—	22
28	—	1	1	48	21	—	21
29	1	2	3	49	14	—	14
30	18	65	83	50	23	—	23
31	13	65	78	51	14	—	14
32	11	69	80	52	7	—	7
33	15	63	78	53	5	1	6
34	19	80	99	54	2	—	2
35	20	62	82	55	1	—	1
36	21	43	64	56	1	—	1
37	29	33	62	61	1	—	1
38	17	11	28	Sum	450	514	964
39	16	4	20	Average size { Males: 41.31 feet			
40	26	3	29	{ Females: 33.58 "			
41	21	6	27	{ Total animals: 37.16 "			
42	26	4	30	Per cent { Males: 46.68			
43	19	—	19	{ Females: 53.32			
44	20	1	21				
45	26	—	26				
46	21	—	21				

## 13. Bonin Island, pelagic.

Blue-whales.	
Engl. feet.	Males.
71	2
72	—
73	2
Sum	4

Humpbacks.	
Engl. feet.	Female.
44	1

Average size: Males: 72.00 feet.

Table No. 6 (continued).

## Sei-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females			males.	females.	
35	2	1	3	47	1	5	6
36	6	4	10	48	3	3	6
37	3	3	6	49	-	2	2
38	4	3	7	59	1	-	1
39	3	8	11				
40	10	2	12	Sum	82	68	<sup>1)</sup> 150
41	11	3	14				
42	12	9	21	Average size	Males: 41.74 feet		
43	7	12	19		Females: 42.24 "		
44	9	5	14		Total animals: 41.97 "		
45	5	6	11	Per cent	Males: 54.67		
46	5	2	7		Females: 45.33		

<sup>1)</sup> 8 sei-whales have been lost.

## Sperm-whales.

27	1	-	1	47	2	-	2
28	-	-	-	48	-	-	-
29	-	1	1	49	3	-	3
30	2	1	3	50	2	-	2
31	1	1	2	51	1	-	1
32	-	-	-	52	-	-	-
33	1	2	3	53	-	-	-
34	2	3	5	54	3	-	3
35	18	39	57	55	-	-	-
36	3	51	54	56	-	-	-
37	8	32	40	57	1	-	1
38	3	7	10				
39	-	-	-	Sum	58	137	<sup>1)</sup> 195
40	1	-	1				
41	3	-	3	Average size	Males: 39.14 feet		
42	2	-	2		Females: 35.83 "		
43	-	-	-		Total animals: 36.82 "		
44	-	-	-	Per cent	Males: 29.74		
45	1	-	1		Females: 70.26		
46	-	-	-				

<sup>1)</sup> 6 sperm-whales have been lost.

## 14. Summary Pacific North.

## Blue-whales.

65	-	2	2	79	-	1	1
66	1	3	4	80	-	2	2
67	3	2	5	81	-	-	-
68	-	-	-	82	-	-	-
69	-	1	1	83	-	1	1
70	-	-	-	Sum	10	24	34
71	2	-	2				
72	1	-	1	Average size	Males: 70.40 feet		
73	2	2	4		Females: 73.79 "		
74	-	1	1		Total animals: 72.79 "		
75	-	-	-	Per cent	Males: 29.41		
76	-	1	1		Females: 70.59		
77	1	2	3				
78	-	6	6				

Table No. 6 (continued).

## Fin-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
50	12	13	25	65	4	5	9
51	5	9	14	66	1	8	9
52	6	8	14	67	-	5	5
53	5	4	9	68	-	5	5
54	3	7	10	69	-	2	2
55	6	4	10	70	-	1	1
56	13	10	23	71	-	1	1
57	4	8	12	72	-	1	1
58	11	4	15	Sum	135	139	274
59	10	3	13	Average size	Males: 57.94 feet		
60	15	7	22		Females: 58.99 "		
61	14	3	17		Total animals: 58.47 "		
62	10	7	17	Per cent	Males: 49.27		
63	10	13	23		Females: 50.73		
64	6	11	17				

## Humpbacks.

36	1	1	2	47	-	-	-
37	1	-	1	48	-	1	1
38	1	1	2	Sum	10	12	22
39	1	1	2	Average size	Males: 41.20 feet		
40	1	-	1		Females: 41.50 "		
41	-	3	3		Total animals: 41.36 "		
42	1	2	3	Per cent	Males: 45.45		
43	-	2	2		Females: 54.55		
44	1	1	2				
45	2	-	2				
46	1	-	1				

## Sei-whales.

35	7	1	8	52	-	2	2
36	10	11	21	53	-	1	1
37	6	8	14	54	2	1	3
38	13	9	22	55	-	-	-
39	10	15	25	56	-	-	-
40	20	19	39	57	-	-	-
41	21	17	38	58	-	1	1
42	28	26	54	59	1	1	2
43	26	34	60	Sum	239	297	536
44	25	27	52	Average size	Males: 42.58 feet		
45	28	31	59		Females: 43.79 "		
46	14	22	36		Total animals: 43.25 "		
47	12	33	45	Per cent	Males: 44.59		
48	10	17	27		Females: 55.41		
49	5	6	11				
50	1	7	8				
51	-	8	8				

Table No. 6 (continued).

## Sperm-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
27	1	1	2	49	17	-	17
28	-	1	1	50	25	-	25
29	1	3	4	51	16	-	16
30	20	66	86	52	7	-	7
31	14	66	80	53	5	1	6
32	11	69	80	54	5	-	5
33	16	65	81	55	1	-	1
34	21	83	104	56	1	-	1
35	38	101	139	57	1	-	1
36	24	94	118	58	-	-	-
37	37	65	102	59	-	-	-
38	20	18	38	60	-	-	-
39	17	4	21	61	1	-	1
40	29	3	32				
41	24	6	30	Sum	513	651	1,164
42	28	4	32				
43	19	-	19	Average size	{ Males: 41.09 feet Females: 34.01 " Total animals: 37.13 "		
44	20	1	21				
45	27	-	27	Per cent	{ Males: 44.07 Females: 55.93		
46	21	-	21				
47	24	-	24				
48	22	-	22				

## 15. Coast of West Australia.

## Humpbacks.

Engl. feet.	Number of		Total animals.
	males.	females.	
36	1	-	1
39	-	1	1
Sum	1	1	2

Average size: Total animals: 37.50 feet.

**Table No. 7.—Average production of oil per “blue-whale equivalent” in the summer season 1947.**

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.	Per blue-whale equivalent.
			Barrels. <sup>1)</sup>	Barrels. <sup>1)</sup>
<i>Atlantic and Arctic:—</i>				
Coast of Norway .....	No. 1	53.3	3,820	71.7
	” 2	43.0	2,701	62.8
	” 3	59.2	3,509	59.3
Faroe Islands .....	” 1	60.8	3,669	60.3
	” 2	40.5	1,996	49.3
New Foundland .....	” 1	79.3	6,490	81.8
	” 2	144.3	10,898	75.5
Coast of Portugal .....	” 1	55.5	2,898	52.2
Average		—	—	67.1
<i>Coast of Africa:—</i>				
Coast of Natal .....	No. 1	316.3	30,002	94.9
Cape Colony .....	” 1	40.7	1,918	47.1
Average		—	—	89.4
<i>Coast of Chile .....</i>	” 1	70.1	3,676	52.4
<i>Pacific North:—</i>				
California .....	” 1	14.2	1,225	86.3

<sup>1)</sup> Barrel = ¼ ton. (1 ton = 1,016 kg).

**Table No. 8.—Average production of oil per sperm-whale in the summer season 1947.**

Geographical areas.	Company.	Number of sperm-whales.	Oil production.	
			Total.	Per sperm-whale.
			Barrels.	Barrels.
<i>Atlantic and Arctic:—</i>				
Coast of Norway .....	No. 1	2	137	68.5
	” 2	5	300	60.0
	” 3	9	404	44.9
Faroe Islands .....	” 1	2	100	50.0
	” 2	13	521	40.1
New Foundland .....	” 1	16	1,102	68.9
	” 2	2	110	55.0
Coast of Portugal .....	” 1	50	1,080	21.6
Azores .....	” 1	465	12,974	27.9
Madeira .....	” 1	109	2,585	23.7
Average		—	—	28.7
<i>Coast of Africa:—</i>				
Coast of Natal .....	No. 1	502	14,272	28.4
Cape Colony .....	” 1	48	1,485	30.9
Average		—	—	28.6

Table No. 8 (continued).

Geographical areas.	Company.	Number of sperm-whales.	Oil production	
			Total.	Per sperm-whale.
<i>Coast of Chile</i> .....	No. 1	669	Parrels. 19,160	Barrels. 28.6
<i>Coast of Peru, pelagic</i> .....	No. 1	2,471	91,782	37.1
	" 2	416	14,204	34.1
Average		—	—	36.7
<i>Pacific North:—</i>				
California .....	No. 1	5	140	28.0

Table No. 9.—Whale fetuses measured in the summer season 1947.

## Blue-whale fetuses

Geographical areas.	Date when measured.	Length.		Sex.	Geographical areas.	Date when measured.	Length.		Sex.
		Mother.	Foetus.				Mother.	Foetus.	
<i>Coast of West Greenland.</i>	26/7	73	4' 0"		<i>Coast of Japan.</i>	7/9	77	17' 0"	M

## Fin-whale fetuses.

<i>Coast of Norway.</i>	9/6	63	5' 0"	M	<i>Coast of West Greenland.</i>	18/6	62	4' 0"		
	13/6	67	8' 0"	F		20/9	63	7' 0"		
	17/7	66	1' 0"	F		30/9	59	3' 0"		
	19/7	66	1' 0"	M		14/10	63	15' 0"		
	27/7	62	5' 0"	M						
		1/8	65	10' 0"						
	5/8	64	1' 6"	M						
	9/8	65	5' 0"	F						
<i>Faroe Islands.</i>	16/5	66	0' 1"		<i>New Foundland.</i>	4/8	66	6' 0"	F	
	22/5	68	5' 0"			5/8	70	5' 0"	M	
	30/5	66	7' 0"			8/8	64	5' 0"	F	
	24/6	71	6' 6"	F		"	67	4' 0"	M	
	25/6	65	2' 6"			"	63	5' 0"	M	
	8/7	65	4' 0"			10/8	72	6' 0"	F	
	10/7	64	8' 0"			18/8	68	11' 0"	F	
						27/8	62	13' 0"	M	
						2/9	68	12' 0"	M	
		2/8	71	10' 0"		M	"	67	10' 0"	F
						"	62	6' 0"	M	
		3/8	61	7' 6"			7/9	70	6' 0"	F
		7/8	71	13' 0"		M	11/9	67	8' 0"	M
		9/8	52	16' 0"		M	14/9	65	8' 0"	F
		12/8	65	14' 0"		F	17/9	66	9' 0"	M
		14/8	72	9' 0"			30/9	68	5' 0"	M
		15/8	62	7' 0"			5/10	67	15' 0"	M
	24/8	60	11' 0"		6/10	63	10' 0"	F		
	30/8	63	5' 0"		7/10	61	15' 0"	M		
	31/8	60	7' 0"	M	"	71	15' 0"	F		
	3/9	62	7' 0"		"	64	12' 0"	M		
	20/9	62	10' 0"		8/10	65	8' 0"	F		
	2/10	68	15' 0"		"	64	12' 0"	M		

Table No. 9 (continued).

Geographical areas.	Date when measured.	Length.		Sex.	Geographical areas.	Date when measured.	Length.		Sex.
		Mother.	Foetus.				Mother.	Foetus.	
<i>California.</i> Average length of foetuses: 9' 2".	$\frac{23}{7}$	68	5' 6"	M	<i>Coast of Japan</i> Average length of foetuses: 10' 7"	$\frac{26}{7}$	66	11' 0"	F
	$\frac{23}{8}$	66	10' 0"	M		$\frac{17}{8}$	64	10' 10"	F
	$\frac{30}{8}$	64	13' 3"	F		$\frac{30}{9}$	53	10' 0"	F
	$\frac{19}{5}$	62	4' 11"	M					
	$\frac{27}{9}$	63	12' 0"	F					

## Humpback-foetuses.

<i>California.</i> Average length of foetuses: 5' 4".	$\frac{4}{9}$	39	5' 8"	M	<i>Coast of Japan.</i>	$\frac{7}{1}$	41	12' 0"	M
	$\frac{25}{10}$	43	5' 0"	M					

## Sei-whale foetuses.

<i>Cape Colony.</i> Average length of foetuses: 1' 7".	$\frac{16}{8}$	45	2' 6"	F	<i>Bonin Island.</i> Average length of foetuses: 2' 4".	$\frac{30}{3}$	44	3' 3"	M
	$\frac{17}{8}$	50	0' 6"			$\frac{5}{4}$	47	1' 7"	M
	$\frac{18}{8}$	46	0' 10"			$\frac{9}{4}$	48	2' 2"	F
	$\frac{31}{8}$	51	2' 3"	F		$\frac{11}{4}$	43	1' 2"	M
	$\frac{31}{8}$	45	0' 6"			$\frac{15}{4}$	43	3' 5"	F
<i>Coast of Japan.</i> Average length of foetuses: 8' 11".	$\frac{49}{8}$	49	1' 7"		$\frac{15}{4}$	42	2' 9"	F	
	$\frac{30}{10}$	47	3' 2"	M	$\frac{16}{4}$	43	2' 6"	F	
	$\frac{26}{6}$	47	6' 5"	F	$\frac{17}{4}$	42	2' 1"	F	
	$\frac{16}{7}$	47	6' 6"	M	$\frac{20}{4}$	43	1' 1"	M	
	$\frac{10}{9}$	47	9' 5"	F	$\frac{1}{5}$	42	2' 11"	F	
	$\frac{13}{9}$	47	8' 0"	F					
	$\frac{21}{9}$	47	11' 0"	F					
	$\frac{46}{9}$	46	8' 0"	M					
	$\frac{23}{9}$	46	10' 0"	M					
	$\frac{45}{9}$	45	12' 0"	M					

## Sperm-whale foetuses.

<i>Coast of Chile.</i> Average length of foetuses: 6' 5".	$\frac{1}{3}$	34	4' 7"	M	<i>Coast of Peru.</i> Average length of foetuses: 10' 3".	$\frac{19}{6}$	37	6' 0"	M
	$\frac{13}{2}$	38	4' 7"	M		$\frac{12}{7}$	32	6' 0"	M
	$\frac{36}{2}$	36	2' 11"	F		$\frac{27}{7}$	36	6' 0"	M
	$\frac{19}{2}$	39	9' 2"	F		$\frac{6}{8}$	37	9' 0"	M
	$\frac{36}{3}$	36	3' 11"	M		$\frac{12}{8}$	33	9' 0"	M
	$\frac{14}{3}$	36	13' 1"	F		$\frac{12}{8}$	35	8' 0"	M
	$\frac{39}{3}$	39	13' 1"	M		$\frac{35}{8}$	35	9' 0"	F
	$\frac{22}{3}$	35	4' 1"	M		$\frac{35}{8}$	35	11' 6"	F
	$\frac{35}{3}$	35	6' 1"	M		$\frac{35}{8}$	35	9' 0"	F
	$\frac{22}{4}$	36	4' 11"	M		$\frac{37}{8}$	37	8' 0"	F
	$\frac{27}{4}$	40	6' 11"	M		$\frac{35}{8}$	35	10' 6"	F
	$\frac{5}{5}$	33	4' 11"	M		$\frac{7}{9}$	32	9' 0"	F
	$\frac{33}{5}$	33	5' 11"	F		$\frac{29}{9}$	35	9' 0"	F
	$\frac{38}{5}$	38	2' 7"	F		$\frac{9}{10}$	36	15' 0"	F
	$\frac{23}{11}$	32	9' 10"	M		$\frac{35}{10}$	35	14' 0"	F
	$\frac{9}{12}$	32	9' 10"	M		$\frac{35}{10}$	35	12' 0"	F
	$\frac{36}{12}$	36	2' 1"	M		$\frac{10}{10}$	36	15' 0"	F



Table No. 9 (continued).

Geographical areas.	Date when measured.	Length.		Sex.	Geographical areas.	Date when measured.	Length.		Sex.	
		Mother.	Foetus.				Mother.	Foetus.		
<i>Coast of Peru</i> (cont.).	10/10	35	12' 0"	F	<i>Coast of Japan</i> (cont.).	6/10	36	5' 0"	M	
	12/10	35	10' 0"	M		17/10	31	10' 5"	M	
	"	35	12' 0"	M		25/10	33	2' 2"	M	
	"	35	14' 0"	F		20/11	31	5' 6"	F	
	"	35	9' 0"	M		22/11	38	6' 6"	F	
	13/10	35	8' 0"	M		29/11	31	4' 9"	M	
	14/10	36	15' 0"	M		"	32	6' 8"	M	
	8/11	35	12' 0"	M		8/12	35	4' 0"	M	
	"	36	8' 0"	M		"	35	7' 0"	M	
	"	37	10' 0"	M						
	9/11	35	10' 0"	M						
	9/12	35	12' 0"	F		<i>Bonin Island.</i>	1/3	36	9' 11"	F
	"	35	11' 0"	M		Average length	5/3	35	6' 5"	M
	"	35	9' 0"	M		of foetuses:	8/3	35	8' 10"	F
	"	35	12' 0"	F		9' 6"	12/3	34	1' 2"	M
	"	35	10' 0"	F		"	35	12' 11"	F	
	"	31	5' 0"			"	36	6' 11"	M	
	"	32	14' 6"			"	38	10' 5"	M	
						"	21/3	35	9' 11"	M
						"	27/3	37	8' 0"	M
<i>Coast of Japan.</i>	5/1	32	8' 0"	M	28/3	37	8' 0"	M		
Average length	20/5	30	12' 0"	M	8/4	36	10' 9"	M		
of foetuses:	"	30	12' 0"	M	12/4	36	0' 2"	M		
6' 2"	14/6	33	13' 0"	F	13/4	35	0' 1"			
	15/6	30	1' 6"	M	"	36	10' 4"	M		
	12/7	31	12' 0"	M	15/4	35	11' 11"	M		
	13/7	34	1' 0"	M	"	35	11' 11"	M		
	"	35	13' 0"	F	17/4	37	11' 3"	F		
	"	30	2' 0"	F	"	36	12' 4"	F		
	"	38	13' 0"	F	"	37	11' 10"	F		
	24/7	36	0' 6"	M	18/4	37	11' 11"	F		
	27/7	34	12' 0"	F	19/4	37	0' 3"	M		
	"	34	1' 9"	F	"	35	2' 0"	F		
	"	37	13' 0"	M	"	36	11' 10"	F		
	18/8	32	3' 5"	M	23/4	36	10' 10"	F		
	27/8	36	4' 0"	F	1/5	35	15' 10"	F		
	"	40	15' 0"	M	4/5	37	9' 11"	M		
	7/9	31	4' 0"	M	"	35	11' 11"	F		
	"	34	1' 0"	F	5/5	35	11' 11"	F		
	"	34	12' 0"	M	8/5	36	12' 11"	F		
	"	32	2' 0"	F	9/5	36	10' 11"	F		
	"	33	3' 0"	M	18/5	35	12' 11"	F		
	"	34	2' 0"	F	"	36	8' 11"	F		
	"	36	3' 0"	M	"	35	9' 11"	F		
	"	30	4' 0"	M	21/5	36	12' 11"	M		
	8/9	36	4' 0"	F	23/5	38	13' 4"	M		
	19/9	34	2' 6"	M	24/5	35	12' 4"	M		
	"	31	3' 6"	F	"	36	13' 1"	M		
	3/10	31	4' 8"	M	"	37	12' 5"	F		
	5/10	33	4' 2"	M	"	36	0' 8"	F		
	6/10	34	9' 0"	M	"					

## Bryde-whale foetuses.

<i>Cape Colony.</i>	22/7	47	13' 7"	M	<i>Cape Colony</i>	20/8	49	4' 7"	
Average length	24/7	45	7' 8"	F	(cont.).	5/9	48	4' 6"	M
of foetuses:	25/7	46	2' 2"	F		7/9	50	7' 3"	M
6' 6".	29/7	45	12' 4"	M		23/9	51	5' 5"	F
	1/8	43	7' 8"	M			49	0' 1 1/2"	

