

INTERNATIONAL
WHALING STATISTICS

XLVII

EDITED BY
THE COMMITTEE FOR WHALING STATISTICS



OSLO 1962

DET NORSKE HVALRÅDS STATISTISKE PUBLIKASJONER

INTERNATIONAL
WHALING STATISTICS

XLVII

EDITED BY
THE COMMITTEE FOR WHALING STATISTICS



OSLO 1962

PRINTED BY
GRØNDAHL & SØN, OSLO

CONTENTS

Preface	Page 5
Introduction	,, 7
Supplementary tables to the introduction	,, 13
Catch of small whales in the years 1955/56—1959/60.....	,, 33
Table No. 1.—Whaling in 1959/60 and summer 1960	,, 39
Table No. 2.—Norwegian whaling in 1959/60 and summer 1960	,, 40
Table No. 3.—Whaling of United Kingdom in 1959/60 and summer 1960	,, 40
Table No. 4.—Whaling of Japan in 1959/60 and summer 1960	,, 40
Table No. 5.—Whaling of U.S.S.R. in 1959/60 and summer 1960	,, 40
Table No. 6.—Whaling results for the various countries in 1959/60 and summer 1960	,, 41
Table No. 7.—Average size of whales caught in the summer-season 1960	,, 41
Table No. 8.—Whales caught in the summer-season 1960, by species, sex and size	,, 48
Natal	,, 48
Cape Province	,, 50
South Atlantic Ocean, pelagic	,, 53
Brazil	,, 54
Azores, Madeira, Spain	,, 55
Norway	,, 55
Iceland	,, 56
Newfoundland.....	,, 57
California	,, 59
North Pacific Ocean and Bering Sea, pelagic	,, 60
Kamchatka, pelagic	,, 61
Kuril Islands	,, 63
Japan	,, 64
Ryukyu Islands	,, 65
Peru	,, 68
Australia	,, 68
New Zealand	,, 69
Table No. 9.—Average production of oil per „blue-whale equivalent” in the summer-season 1960	,, 70
Table No. 10.—Average production of oil per sperm-whale in the summer-season 1960	,, 71
Table No. 11.—Whale fetuses measured in the summer-season 1960	,, 72



PREFACE

The present publication, International Whaling Statistics No. XLVII, comprises the whaling operations in the Antarctic during the season 1959-60 and on grounds outside the Antarctic in the calendar year 1960.

The Committee has not succeeded in obtaining statistics concerning the whaling operations in 1960 from

San Miguel and San Jorge, Azores.

Further, statistical data relating to the size of the whales killed have not been received from the following grounds and companies:

Azores,

Madeira,

“Industria Ballenera S.A.”, Spain,

“Consorcio Ballenero S.A.”, Peru,

“Compania Ballenera del Norte S.A.”, Peru,

“Compania Industrial”, Chile,

“Macaya Hnos. y Cia”, Chile.

With these exceptions the statistics, to the best knowledge of the Committee, include all operations carried on in 1960.

O s l o , December 1961.

Gunnar Jahn.

Birger Bergersen.

Einar Vangstein.

INTRODUCTION

This publication comprises the world aggregate whaling results for 1960, i.e. the catch in the Antarctic during the season 1959–60 and the catch on grounds outside the Antarctic during the calendar year 1960. The Antarctic whaling results during the season 1959–60 were given in detail in International Whaling Statistics No. XLVI, while the present volume gives specifications of the operations on grounds outside the Antarctic in 1960.

In 1960 the following alterations took place in respect to the participation in the operations outside the Antarctic:

“*Sociedade de Pesca Taiyo Ltd.*”, which is owned by the Japanese whaling company Taiyo Gyogyo K.K. and Brazilian interests, commenced whaling from a shore station at Cabo Frio, Brazil.

“*Aukra Hval A/S*” resumed whaling from the shore station Hestnes on the west coast of Norway.

On the other hand the following companies were not operating in 1960:

“*Société des Pêcheries Cotieres à la Baleine*”, (*Sopecoba*), Cape Lopez, Gabon (earlier French Congo).

“*José Lopez Gutierrez*”, Algeciras, Spain.

“*Hawke Harbour Whaling Co. Ltd.*”, Newfoundland.

“*British Columbia Packers Ltd.*”, Vancouver, British Columbia.

It should also be mentioned that one of the Antarctic floating factories in 1960 caught 34 sperm-whales in the South Atlantic Ocean on its voyages to and from the Antarctic whaling grounds.

In 1960 whaling outside the Antarctic was carried on from the following grounds:

Africa: Natal, Cape Province.

North Atlantic and Arctic: Azores, Madeira, Spain, Norway, Iceland.

Pacific North: California, North Pacific Ocean and Bering Sea, Kamtchatka, Kuril Islands, Japan, Ryukyu Islands.

Other grounds: Brazil, Peru, Chile, Australia, New Zealand, South Atlantic Ocean.

These whaling grounds are mainly the same as those operated in the previous season, except that no whaling was carried on in 1960 from Gabon, Newfoundland and British Columbia.

The total catch of whales in the Antarctic and on grounds outside the Antarctic has increased in recent years, and the number of whales killed of 64,600 in the season 1957–58, 64,500 in the season 1958–59 and 63,600 in

the season 1959-60, are the largest ever recorded. In this survey the figures concerning the catch in the Antarctic are not analysed, the catch on the other grounds being the object of these statistics.

From table *a*, page 13, it will be seen that whaling on grounds outside the Antarctic during the year 1960 was carried on from 51 shore stations, 3 floating factories and with 158 catchers. This is the same number of floating factories, but two shore stations and 6 catchers less than in 1959. The number of shore stations operated on grounds outside the Antarctic in 1958, 1959 and 1960 were the highest ever recorded, and only in one previous season a higher number of catchers than in 1958-1960 has been engaged outside the Antarctic, namely in 1951 with the maximum figure of 208 catchers.

In the survey below is recorded the number of whales killed on grounds outside the Antarctic during the period 1937/38-1959/60. Figures for the Antarctic whaling are also included in order to give the total world whaling results during this period.

Season	Total of whales killed	In Antarctic			On other grounds		
		Total	Baleen whales	Sperm-whales	Total	Baleen whales	Sperm-whales
1937-38.....	54,902	46,039	45,172	867	8,863	5,967	2,896
1938-39.....	45,783	38,356	35,771	2,585	7,427	4,501	2,926
1939-40.....	37,709	32,900	30,962	1,938	4,809	2,076	2,733
1940-41.....	23,638	16,363	15,559	804	7,275	2,438	4,837
1941-42.....	8,014	1,425	1,316	109	6,589	1,741	4,848
1942-43.....	8,372	998	974	24	7,374	1,895	5,479
1943-44.....	6,445	1,799	1,698	101	4,646	2,133	2,513
1944-45.....	5,919	2,891	2,846	45	3,028	1,404	1,624
1945-46.....	19,384	13,387	13,114	273	5,997	2,809	3,188
1946-47.....	34,820	25,593	24,162	1,431	9,227	3,112	6,115
1947-48.....	43,382	31,318	28,696	2,622	12,064	4,836	7,228
1948-49.....	44,002	31,435	27,357	4,078	12,567	7,629	4,938
1949-50.....	45,093	32,396	29,669	2,727	12,697	7,205	5,492
1950-51.....	55,812	33,997	29,029	4,968	21,815	8,502	13,313
1951-52.....	49,816	35,237	29,752	5,485	14,579	8,506	6,073
1952-53.....	44,988	30,653	28,321	2,332	14,335	7,090	7,245
1953-54.....	53,642	34,872	31,993	2,879	18,770	8,106	10,664
1954-55.....	55,062	37,654	31,864	5,790	17,408	7,605	9,803
1955-56.....	58,126	38,580	31,606	6,974	19,546	7,930	11,616
1956-57.....	59,056	36,115	31,686	4,429	22,941	8,214	14,727
1957-58.....	64,586	39,896	33,361	6,535	24,690	9,379	15,311
1958-59.....	64,489	38,890	33,238	5,652	25,599	9,953	15,646
1959-60.....	63,616	38,892	34,665	4,227	24,724	8,707	16,017

On the grounds outside the Antarctic the total catch has increased considerably during the postwar seasons. The increase in the later years is, however, principally a result of the large catch of sperm-whales. Since the 1949-season the catch of sperm-whales outside the Antarctic has increased from about 5,000 animals in 1949 to 16,000 in 1960. The number of baleen whales killed has since 1949 varied between 7,100 and 9,900 only.

In order to be able to analyse the statistics, the figures must be studied in respect to the various grounds as well as in respect to the species of whales killed.

In the *North Atlantic and Arctic* whaling has been carried on continually during the post-war seasons from Norway, the Faroe Islands, Iceland (from 1948), and Greenland. From Faroe Islands and Greenland, however, there was no whaling in 1959 and 1960. Whaling from Newfoundland and Labrador was of considerable importance during the years 1946–1951. Later the stations were closed, but since 1956 whaling has been resumed on a considerably reduced scale.

The whaling operations off the coast of Norway, which are mainly based upon the catch of fin-whales, have been reduced in recent years. (See table *i*, page 24, with post-war figures from and including 1949.) Up till 1955 4 shore stations with 11–12 catchers were active, but in 1957–1959 whaling was carried on from 2 shore stations with 6 catchers only. The aggregate number of baleen whales killed as well as the number of whales killed per catcher thus declined in 1958 to 129 and 21 whales, respectively. The corresponding figures increased, however, in 1959 to 184 whales and 31 whales, but declined again in 1960 to 130 and 14 whales, respectively. In 1960 3 shore stations with 9 catchers were in activity.

The baleen whale catch off the Faroe Islands has declined since 1951. In later years the catch has varied considerably from one year to another. In 1956 49 baleen whales were killed, in 1957 142, in 1958 17 and since 1958 no whaling has taken place off the Faroe Islands.

The catch of baleen whales off Iceland has declined in the two last years, from 385 in 1958 to 251 in 1959 and 202 in 1960. From and including the summer 1955 the taking of blue-whales in the North Atlantic and Arctic was prohibited for a period of 5 years, but Denmark and Iceland have protested against this prohibition and were thus free to kill blue-whales. The prohibition was in 1960 extended for a further period of 5 years, and neither Denmark nor Iceland have now protested against it. The prohibition is thus complete for the North Atlantic and Arctic.

From Greenland and Newfoundland whaling in later years has been carried on with one single catcher, and it is impossible to draw any definite conclusion as to the decline of the catch or to the diminishing of the stock.

Whaling has also been carried on in the south eastern part of the Atlantic from the *Azores*, *Madeira* and *Spain* in later years (see tables *j–l*, page 25). This whaling is chiefly restricted to the catch of sperm-whales. The figures recorded for the baleen whale catch have declined.

The whaling off the *African* coast (see table *o*, page 27) during the latest seasons has been carried on off Natal and Cape Province only, Natal being the only ground continually operated in all postwar years. The

catch of sperm-whales has been of considerable importance in these years. As to baleen whales, the catch of humpbacks was of major importance to the whaling off the coasts of Madagascar and French Congo. The activities off the coast of Madagascar stopped in 1950. During that year the catch of humpbacks was 711 against 1,333 in 1949. The whaling off the coast of French Congo stopped in 1952, when the number of humpbacks killed had decreased to 265, from 1,105 in 1951. On the Congo ground the catch of sei-whales was of some importance in 1951 and 1952. In 1959 whaling was resumed from this ground –now named “Gabon”–, and the number of humpbacks killed was 160. The baleen whale catch off Natal in later years has been based upon the catch of fin-whales. Next to this species comes the sei-whale. The catch of humpbacks has declined considerably. Whaling off the Cape Province was resumed in 1957, and the results recorded show that the baleen whales killed in later years are sei- and fin-whales. Only a few blue-whales and humpbacks have been killed.

Whaling in the *Pacific North* (see table *p*, page 28) has been carried on in 1960 from California and the Ryukyu Islands. The pelagic whaling from Bonin Island stopped in 1952, while the whaling station on the coast of British Columbia has been operating in all postwar years up to and including 1959. Most of the baleen whales killed off British Columbia during the later years have been fin-whales.

The figures for the whaling carried on from the shore stations on the coasts of *Japan* (see table *q*, page 29) show that the catch of sperm-whales has become increasingly important. The catch of baleen whales has shown some variations from year to year, but as a whole the figures show that the catch of the more valuable species, blue-whales and fin-whales, has declined while the catch of sei-whales has become more and more important.

The whaling in the *North Pacific Ocean and Bering Sea* (see table *r*, page 29) has been carried on since 1955 from 2 floating factories with 13–17 catchers. During these years the catch of sperm-whales has been of great importance, the catch of fin-whales has been stable, the catch of sei-whales has risen, while the blue-whale catch has been restricted to 70 animals per season.

Whaling from *Kamtchatka* (see table *s*, page 29) is based on the catch of sperm-whales, the catch of baleen whales being of less importance in later years. In 1957 and 1958 one floating factory with 7 catchers and in 1959 and 1960 one floating factory with 9 catchers were in operation.

Whaling off the *Kuril Islands* (see table *t*, page 30) has been carried on during the last 5 seasons from 4 shore stations and with 13–22 catchers.

The majority of the whales killed were sperm-whales, although the baleen whale catch is of some importance, including some few blue-whales.

Whaling off *Brazil* (see table *u*, page 30) has been carried on from 1-2 shore stations with 2-3 catchers only, and the whales killed are almost exclusively sei-whales. In the last season, when 5 catchers were employed, the sei-whale catch increased to 750 animals.

In *Peru* whaling is carried on from 2-3 shore stations (see table *v*, page 30) and the whales killed during the last 4 seasons have been exclusively sperm-whales. In former years there were also killed some baleen whales, the number of which declined rapidly from and including 1955.

In *Chile* (see table *w*, page 31) whaling has been carried on in 1958-1960 from 3 shore stations with 13, 14 and 16 catchers, respectively. Most of the whales killed on the Chilean ground are sperm-whales, but the baleen whale catch has also been of some importance. During the last 4 seasons, however, the fin-whale catch has been strongly reduced, while the number of blue-whales killed has varied from 209 in 1956 to 100 in 1957, to 166 in 1958, to 80 in 1959 and to 131 in 1960. Compared with the previous seasons back to 1951 there is no tendency to any decrease in this blue-whale catch.

Whaling off *Australia and New Zealand* (see tables *z* and *z*¹, page 31) is mainly restricted to humpbacks, although a few of the other species of baleen whales have been killed. In the last years also some sperm-whales have been taken off Australia.

Table *z*², page 32, shows the production of by-products in the Antarctic and on the individual grounds outside the Antarctic during the last two seasons.

The chief by-products are whale meat and whale meal, of which the total production in 1959-60 were 143,434 tons and 84,168 tons, respectively. Of these quanta 95,997 tons whale meat and 53,024 tons whale meal were produced in the Antarctic.

In some tables *z*³⁻¹⁰, pages 33-38, is recorded the catch of small whales on the various grounds outside the Antarctic during the last 6 seasons.

Annex.

Supplementary Tables to the Introduction.

Table a.—Whaling matériel in operation in the years 1937/38—1959/60.

Years. ¹⁾	All whaling grounds.			Antarctic.			Others.		
	Shore stations.	Floating factories.	Catchers.	Shore stations.	Floating factories.	Catchers.	Shore stations.	Floating factories.	Catchers.
1937-38	37	35	357	2	31	256	35	4	101
1938-39	16	37	362	2	34	281	14	3	81
1942-43	8	2	54	1	-	6	7	2	48
1943-44	9	1	66	1	1	15	8	-	51
1944-45	9	1	66	1	1	15	8	-	51
1945-46	38	11	158	3	9	93	35	2	65
1946-47	39	20	246	3	15	147	36	5	99
1947-48	50	21	307	3	17	183	47	4	124
1948-49	49	22	348	3	18	212	46	4	136
1949-50	50	22	382	3	18	237	47	4	145
1950-51	53	26	468	3	19	260	50	7	208
1951-52	50	24	430	3	20	289	47	4	141
1952-53	53	18	379	3	16	251	50	2	128
1953-54	50	21	368	3	17	227	47	4	141
1954-55	49	22	386	3	19	254	46	3	132
1955-56	53	22	419	3	19	278	50	3	141
1956-57	52	23	395	3	20	246	49	3	149
1957-58	56	23	417	2	20	257	54	3	160
1958-59	56	23	420	3	20	256	53	3	164
1959-60	54	23	399	3	20	241	51	3	158

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

Table b.—Whales killed in the years 1937/38—1959/60, by species.

Years. ¹⁾	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.	Total of whales.
1937-38	15,035	29,680	5,125	929	3,763	370	54,902
1938-39	14,152	22,622	1,393	815	5,511	1,290	45,783
1942-43	151	1,809	238	506	5,503	115	8,372
1943-44	353	2,204	282	939	2,614	3	6,445
1944-45	1,111	2,617	303	218	1,669	1	5,919
1945-46	3,675	10,981	495	747	3,461	22	19,384
1946-47	9,302	16,495	290	1,131	7,546	56	34,820
1947-48	7,157	24,028	515	1,573	9,850	259	43,382
1948-49	7,781	21,763	3,395	1,855	9,016	192	44,002
1949-50	6,313	22,902	5,063	2,471	8,219	125	45,093
1950-51	7,278	22,819	4,352	3,033	18,281	49	55,812
1951-52	5,436	25,605	4,023	3,123	11,558	71	49,816
1952-53	4,218	25,581	3,328	2,208	9,577	76	44,988
1953-54	3,009	31,335	3,155	2,491	13,543	109	53,642
1954-55	2,495	32,185	2,713	1,940	15,593	136	55,062
1955-56	1,987	31,496	3,880	2,076	18,590	97	58,126
1956-57	1,775	31,626	3,196	3,138	19,156	165	59,056
1957-58	1,995	31,537	2,923	5,670	21,846	565	64,586
1958-59	1,442	30,942	5,055	5,539	21,298	213	64,489
1959-60	1,465	30,985	3,575	7,035	20,244	312	63,616

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

Table c.—Whales killed in the various main areas 1937/38—1959/60.

Years.	All areas.		Antarctic.		Africa.		North Atlantic and Arctic. ¹⁾		Pacific, north. ²⁾		Japan	
	No. of whales killed.	Per cent.	No. of whales killed.	Per cent.	No. of whales killed.	Per cent.	No. of whales killed.	Per cent.	No. of whales killed.	Per cent.	No. of whales killed.	Per cent.
1937-38.....	54,902	100	46,039	83.9	3,044	5.5	750	1.4	483	0.9	1,970	3.6
1938-39.....	45,783	100	38,356	83.8	2,687	5.9	802	1.7	232	0.5	2,280	5.0
1939-40.....	37,709	100	32,900	87.3	1,035	2.7	78	0.2	249	0.7	2,035	5.4
1945-46.....	19,384	100	13,387	69.1	984	5.1	1,145	5.9	113	0.6	1,750	9.0
1946-47.....	34,820	100	25,593	73.5	1,406	4.0	1,063	3.1	402	1.2	1,642	4.7
1947-48.....	43,382	100	31,318	72.2	2,308	5.3	1,644	3.8	492	1.1	1,590	3.7
1948-49.....	44,002	100	31,435	71.4	4,966	11.3	1,575	3.6	509	1.2	1,483	3.4
1949-50.....	45,093	100	32,396	71.9	4,122	9.1	1,698	3.8	620	1.4	1,701	3.8
1950-51.....	55,812	100	33,997	60.9	4,639	8.3	1,751	3.1	817	1.5	1,962	3.5
1951-52.....	49,816	100	35,237	70.7	2,945	5.9	763	1.5	895	1.8	1,998	4.1
1952-53.....	44,988	100	30,653	68.1	1,708	3.8	903	2.0	539	1.2	2,048	4.5
1953-54.....	53,642	100	34,872	65.0	1,088	2.0	788	1.5	630	1.2	2,354	4.5
1954-55.....	55,032	100	37,654	68.4	1,310	2.4	864	1.6	630	1.1	2,387	4.3
1955-56.....	58,126	100	38,580	66.4	1,229	2.1	858	1.5	520	0.9	3,284	5.6
1956-57.....	59,056	100	36,115	61.1	2,536	4.3	979	1.7	895	1.5	3,109	5.3
1957-58.....	64,586	100	39,896	61.8	3,026	4.7	890	1.4	1,325	2.0	3,644	5.6
1958-59.....	64,489	100	38,890	60.3	3,609	5.6	606	0.9	1,402	2.2	3,580	5.5
1959-60.....	63,616	100	38,892	61.1	3,523	5.5	595	0.9	453	0.7	3,029	4.8
	North Pacific Ocean and Bering Sea (pelagic).		Kamchatka and Kuril Islands.		Chile.		Peru.		Australia and New Zealand.		Others.	
1937-38.....	-	-	265	0.5	338	0.6	602	1.1	994	1.8	417	0.7
1938-39.....	-	-	476	1.0	469	1.0	-	-	81	0.2	400	0.9
1939-40.....	673	1.8 ³⁾	-	-	78	0.2	-	-	109	0.3	552	1.4
1945-46.....	-	-	466	2.4	598	3.1	-	-	110	0.5	831	4.3
1946-47.....	-	- ³⁾	-	-	851	2.4	2,890	8.3	113	0.3	860	2.5
1947-48.....	-	-	1,280	2.9	1,116	2.6	2,501	5.8	96	0.2	1,037	2.4
1948-49.....	-	-	2,015	4.6	991	2.2	-	-	334	0.7	694	1.6
1949-50.....	-	-	2,357	5.2	1,093	2.4	-	-	467	1.0	639	1.4
1950-51.....	-	-	2,583	4.6	1,094	2.0	6,414	11.5	1,335	2.4	1,220	2.2
1951-52.....	319	0.6	3,111	6.2	1,374	2.8	95	0.2	1,909	3.8	1,170	2.4
1952-53.....	701	1.6	2,879	6.4	1,198	2.7	1,340	3.0	2,110	4.7	909	2.0
1953-54.....	2,217	4.1	2,745	5.1	1,328	2.5	4,175	7.8	2,219	4.1	1,226	2.3
1954-55.....	2,652	4.8	3,031	5.5	1,298	2.4	1,887	3.4	1,936	3.6	1,383	2.5
1955-56.....	3,168	5.4	3,298	5.7	1,633	2.8	2,027	3.5	2,210	3.8	1,319	2.3
1956-57.....	3,341	5.7	3,513	5.9	2,512	4.3	2,381	4.0	2,286	3.9	1,389	2.3
1957-58.....	3,255	5.0	4,375	6.8	2,317	3.6	2,554	4.0	2,278	3.5	1,026	1.6
1958-59.....	3,352	5.2	4,146	6.4	2,233	3.5	3,400	5.3	2,131	3.3	1,140	1.8
1959-60.....	3,466	5.5	4,403	6.9	2,084	3.3	3,451	5.4	2,170	3.4	1,550	2.5

¹⁾ Excluding Spain, Portugal, Azores, and Madeira. ²⁾ Excluding Japan, Korea, North Pacific Ocean and Bering Sea, Kamchatka and Kuril Islands.

Years.	All areas.			Antarctic.			Africa.			North Atlantic and Arctic. ¹⁾			Pacific North. ²⁾			Japan		
	Total oil output.	%	Oil output per catcher.	Total oil output.	%	Oil output per catcher.	Total oil output.	%	Oil output per catcher.	Total oil output.	%	Oil output per catcher.	Total oil output.	%	Oil output per catcher.	Total oil output.	%	Oil output per catcher.
	Barrels. ³⁾		Barrels.	Barrels.		Barrels.	Barrels.		Barrels.	Barrels.		Barrels.	Barrels.		Barrels.	Barrels.		Barrels.
1937-38..	3,641,314	100	10,200	3,340,330	91.7	13,048	139,102	3.8	6,325	22,097	0.6	1,004	22,891	0.6	2,081	33,353	0.9	1,334
1938-39..	3,011,813	100	8,320	2,820,771	93.7	10,038	106,793	3.5	5,086	26,066	0.9	1,241	9,424	0.3	1,885	12,784	0.4	556
1947-48..	2,437,545	100	7,940	2,104,051	86.3	11,498	64,308	2.6	2,680	60,932	2.5	2,176	8,815	0.4	801	15,018	0.6	601
1948-49..	2,596,131	100	7,460	2,219,621	85.5	10,470	185,003	7.1	4,512	53,840	2.3	1,961	10,202	0.4	1,134	14,179	0.5	567
1949-50..	2,548,230	100	6,671	2,166,489	85.0	9,141	154,134	6.0	3,585	63,612	2.5	1,988	12,345	0.5	1,543	26,112	1.0	1,044
1950-51..	2,955,532	100	6,315	2,303,690	77.9	8,860	151,736	5.2	3,439	61,635	2.1	1,926	19,073	0.6	1,734	29,611	1.0	1,184
1951-52..	2,906,544	100	6,759	2,479,180	85.3	8,578	93,342	3.2	2,667	25,172	0.9	1,398	19,002	0.7	1,900	23,635	1.0	1,145
1952-53..	2,542,110	100	6,707	2,118,097	83.3	8,439	53,831	2.1	2,447	27,261	1.1	1,298	18,255	0.7	3,651	31,362	1.2	1,254
1953-54..	2,862,408	100	7,778	2,285,720	79.9	10,069	43,936	1.5	3,138	25,507	0.9	1,417	17,507	0.6	2,918	33,163	1.2	1,327
1954-55..	2,760,856	100	7,152	2,242,555	81.2	8,829	45,206	1.6	3,477	27,753	1.0	1,542	18,164	0.7	3,027	34,421	1.2	1,377
1955-56..	2,911,616	100	6,949	2,307,171	79.2	8,299	51,105	1.8	3,931	31,174	1.1	1,641	18,488	0.6	1,681	46,233	1.6	1,849
1956-57..	2,929,085	100	7,415	2,246,922	76.7	9,134	83,956	2.9	5,597	33,802	1.2	1,988	28,386	1.0	2,581	44,427	1.5	1,777
1957-58..	3,048,969	100	7,312	2,317,638	76.0	9,018	89,401	2.9	5,538	32,971	1.1	2,061	34,948	1.2	2,330	60,966	2.0	2,439
1958-59..	2,914,647	100	6,940	2,152,659	73.9	8,409	102,370	3.5	5,687	24,153	0.8	2,196	38,536	1.3	2,267	52,648	1.8	2,194
1959-60..	2,881,630	100	7,222	2,148,438	74.6	8,915	102,786	3.6	6,046	26,188	0.9	2,014	12,586	0.4	899	48,403	1.7	1,936

	North Pacific Ocean and Bering Sea (pelagic).			Kamchatka and Kuril Islands.			Chile.			Peru.			Australia and New Zealand.			Others.		
1937-38..	-	-	-	9,102	0.3	3,034	9,345	0.3	-	12,869	0.4	1,609	44,941	1.2	4,993	7,284	0.2	.
1938-39..	-	-	-	18,854	0.6	6,285	7,512	0.2	1,502	-	-	-	2,689	0.1	896	6,920	0.3	.
1947-48..	-	-	-	39,602	1.6	2,829	28,522	1.2	4,075	88,205	3.6	12,601	3,929	0.2	982	24,163	1.0	.
1948-49..	-	-	-	59,218	2.3	4,230	23,382	0.9	3,340	-	-	-	11,576	0.4	2,315	14,110	0.6	.
1949-50..	-	-	-	62,049	2.4	3,878	30,231	1.2	4,319	-	-	-	19,338	0.8	2,763	13,920	0.6	.
1950-51..	-	-	-	72,712	2.5	4,040	30,993	1.0	3,099	197,524	6.7	3,873	60,572	2.0	6,730	24,986	1.0	.
1951-52..	13,605	0.5	3,402	86,269	3.0	5,075	35,406	1.2	3,541	1,941	0.1	1,941	96,630	3.3	7,433	27,361	0.8	.
1952-53..	29,123	1.1	7,281	84,079	3.3	4,671	30,169	1.2	3,771	22,108	0.9	3,685	106,751	4.2	8,893	21,074	0.9	.
1953-54..	103,218	3.6	10,322	85,658	3.0	4,759	27,885	1.0	2,324	104,168	3.6	5,483	109,335	3.8	9,111	26,311	0.9	.
1954-55..	111,917	4.1	8,609	82,227	3.0	4,568	36,108	1.3	2,778	31,335	1.1	5,223	101,397	3.7	8,450	29,773	1.1	.
1955-56..	146,600	5.0	10,471	94,820	3.3	4,515	41,751	1.4	3,479	32,604	1.1	5,434	110,932	3.8	7,395	30,738	1.1	.
1956-57..	148,824	5.1	9,922	101,697	3.5	4,843	44,688	1.5	3,438	45,745	1.6	5,718	116,709	4.0	7,294	33,929	1.0	.
1957-58..	145,436	4.8	9,696	122,491	4.0	4,224	48,301	1.6	3,715	56,315	1.8	7,039	116,080	3.8	7,255	24,422	0.8	.
1958-59..	160,224	5.5	9,425	128,172	4.4	4,578	44,851	1.5	3,204	74,785	2.6	9,348	110,649	3.8	5,824	25,600	0.9	.
1959-60..	150,529	5.2	10,035	141,122	4.9	6,415	41,443	1.4	2,590	75,426	2.6	9,428	104,550	3.6	5,228	30,159	1.1	.

¹⁾ Excluding Spain, Portugal, Azores and Madeira. ²⁾ Excluding Japan, Korea, North Pacific Ocean and Bering Sea, Kamchatka and Kuril Islands. ³⁾ Barrel = 170 kg. (Barrel = abt. 1/4 long ton.)

Table e.—Whaling results for the various countries in the
Number of whales killed.

Years.	All countries.	Argentina.	Australia.	Brazil.	Canada.	Chile.	Denmark.	France.	Germany.	Iceland.	Japan.
<i>Absolute figures:</i>											
1937-38..	54,902	1,062	—	—	310	338	208	—	5,839	147	7,552
1938-39..	45,783	1,024	—	—	—	469	178	—	5,066	130	9,820
1939-40..	37,709	705	—	—	220	78	—	—	—	—	9,698
1945-46..	19,384	1,082	—	—	179	598	175	—	—	—	1,863
1946-47..	34,820	857	2	25	157	851	284	—	—	—	3,181
1947-48..	43,382	814	4	36	480	1,116	302	—	—	239	3,157
1948-49..	44,002	919	193	38	448	991	335	—	—	324	3,331
1949-50..	45,093	946	388	128	469	1,093	478	2,193	—	265	4,121
1950-51..	55,812	796	1,224	179	646	1,094	387	4,079	—	339	5,043
1951-52..	49,816	798	1,787	168	467	1,374	44	436	—	265	6,578
1952-53..	44,988	678	2,001	175	540	1,198	190	—	—	332	5,394
1953-54..	53,642	1,083	2,039	202	630	1,328	62	—	—	334	8,789
1954-55..	55,062	947	1,854	213	632	1,298	196	—	—	400	10,997
1955-56..	58,126	812	2,051	217	397	1,633	190	—	—	440	12,914
1956-57..	59,056	1,108	2,100	122	677	2,512	250	—	—	517	14,614
1957-58..	64,586	1,860	2,095	128	840	2,317	94	—	—	508	18,662
1958-59..	64,489	923	1,811	315	889	2,233	—	178	—	371	19,490
1959-60..	63,616	932	1,809	813	2	2,084	—	—	—	379	18,854
<i>Percentage figures:</i>	%	%	%	%	%	%	%	%	%	%	%
1937-38..	100.0	1.9	—	—	0.6	0.6	0.4	—	10.6	0.3	13.8
1938-39..	100.0	2.2	—	—	—	1.0	0.4	—	11.1	0.3	21.5
1939-40..	100.0	1.9	—	—	0.6	0.2	—	—	—	—	25.7
1945-46..	100.0	5.6	—	—	0.9	3.1	0.9	—	—	—	9.6
1946-47..	100.0	2.5	—	0.1	0.5	2.4	0.8	—	—	—	9.1
1947-48..	100.0	1.9	—	0.1	1.1	2.6	0.7	—	—	0.6	7.3
1948-49..	100.0	2.1	0.4	0.1	1.0	2.2	0.8	—	—	0.7	7.6
1949-50..	100.0	2.1	0.9	0.3	1.0	2.4	1.1	4.9	—	0.6	9.1
1950-51..	100.0	1.4	2.2	0.3	1.2	2.0	0.7	7.3	—	0.6	9.0
1951-52..	100.0	1.6	3.6	0.3	0.9	2.8	0.1	0.9	—	0.5	13.2
1952-53..	100.0	1.5	4.4	0.4	1.2	2.7	0.4	—	—	0.7	12.0
1953-54..	100.0	2.0	3.8	0.4	1.2	2.5	0.1	—	—	0.6	16.4
1954-55..	100.0	1.7	3.4	0.4	1.1	2.4	0.3	—	—	0.7	20.0
1955-56..	100.0	1.4	3.5	0.4	0.7	2.8	0.3	—	—	0.8	22.2
1956-57..	100.0	1.9	3.6	0.2	1.1	4.3	0.4	—	—	0.9	24.8
1957-58..	100.0	2.9	3.2	0.2	1.3	3.6	0.1	—	—	0.8	28.9
1958-59..	100.0	1.4	2.8	0.5	1.4	3.5	—	0.3	—	0.6	30.2
1959-60..	100.0	1.5	2.8	1.3	—	3.3	—	—	—	0.6	29.6

1) Including the catch of two Norwegian expeditions hired by Germany—in 1937/38 2,153 whales, and 1

years 1937/38—1939/40, and 1945/46—1959/60. All areas.

Number of whales killed.

Years.	Netherlands	New Zealand.	Norway.	Faamaa.	Peru.	Portugal.	Spain.	Union of South Africa.	United Kingdom.	United States of America.	U.S.S.R.
<i>Absolute figures:</i>											
1937-38..	-	77 ¹⁾	15,355	1,527	-	417	-	5,869	13,286	2,650	265
1938-39..	-	81 ¹⁾	11,871	907	-	400	-	3,857	10,166	1,338	476
1939-40..	-	109	11,040	1,421	-	552	-	2,925	9,953	1,008	-
1945-46..	-	110	7,687	-	-	831	-	984	5,409	-	466
1946-47..	770	111	12,857	-	-	835	-	3,972	10,494	38	386
1947-48..	1,294	92	16,104	-	-	1,001	47	5,115	11,410	67	2,104
1948-49..	1,366	141	16,570	1,356	-	656	134	4,749	9,280	49	3,122
1949-50..	1,295	79	17,234	-	-	481	146	3,695	8,151	-	3,931
1950-51..	1,660	111	18,024	4,021	61	1,658	236	5,314	6,626	40	4,274
1951-52..	1,650	122	16,102	1,408	95	785	274	4,946	6,938	-	5,579
1952-53..	1,575	109	11,620	2,365	1,340	637	128	4,137	6,964	-	5,605
1953-54..	1,711	180	15,320	2,348	1,827	807	282	3,249	7,620	-	5,831
1954-55..	848	112	14,793	2,512	1,887	839	292	3,006	7,912	-	6,321
1955-56..	1,665	159	14,716	2,854	2,027	705	273	3,413	7,444	145	6,071
1956-57..	1,434	186	15,241	-	2,381	842	301	4,132	6,266	260	6,113
1957-58..	1,867	183	13,527	-	2,554	701	181	3,026	7,080	551	8,412
1958-59..	2,226	320	14,296	-	3,400	572	237	3,431	5,431	533	7,833
1959-60..	2,081	361	11,572	-	3,451	506	197	3,523	5,165	453	11,434
<i>Percentage figures:</i>	%	%	%	%	%	%	%	%	%	%	%
1937-38..	-	0.1	28.0	2.8	-	0.7	-	10.7	24.2	4.8	0.5
1938-39..	-	0.2	25.9	2.0	-	0.9	-	8.4	22.2	2.9	1.0
1939-40..	-	0.3	29.3	3.8	-	1.4	-	7.7	26.4	2.7	-
1945-46..	-	0.6	39.7	-	-	4.2	-	5.1	28.0	-	2.3
1946-47..	2.2	0.3	36.9	-	-	2.4	-	11.4	30.2	0.1	1.1
1947-48..	3.0	0.2	37.1	-	-	2.3	0.1	11.8	26.3	0.1	4.8
1948-49..	3.1	0.3	37.7	3.1	-	1.4	0.3	10.8	21.2	0.1	7.1
1949-50..	2.9	0.2	38.2	-	-	1.0	0.3	8.2	18.1	-	8.7
1950-51..	3.0	0.2	32.3	7.2	0.1	2.9	0.4	9.5	11.9	0.1	7.7
1951-52..	3.3	0.3	32.3	2.8	0.2	1.6	0.6	9.9	13.9	-	11.2
1952-53..	3.5	0.2	25.8	5.3	3.0	1.4	0.3	9.2	15.5	-	12.5
1953-54..	3.2	0.3	28.5	4.4	3.4	1.5	0.5	6.1	14.2	-	10.9
1954-55..	1.5	0.2	26.9	4.6	3.4	1.5	0.5	5.5	14.4	-	11.5
1955-56..	2.9	0.3	25.3	4.9	3.5	1.2	0.5	5.9	12.8	0.2	10.4
1956-57..	2.4	0.3	25.8	-	4.0	1.4	0.5	7.0	10.6	0.4	10.4
1957-58..	2.9	0.3	20.9	-	4.0	1.1	0.3	4.7	11.0	0.8	13.0
1958-59..	3.4	0.5	22.2	-	5.3	0.9	0.4	5.3	8.4	0.8	12.1
1959-60..	3.3	0.6	18.2	-	5.4	0.8	0.3	5.5	8.1	0.7	18.0

in 1938/39 1,658 whales.

Table f.—Whaling results for the various countries in the
Oil production in barrels.¹⁾

Years.	All countries.	Argentina.	Australia.	Brazil.	Canada.	Chile.	Denmark.	France.	Germany.	Iceland.	Japan.
<i>Absolute figures:</i>											
1937-38..	3,641,314	51,766	—	—	13,157	9,345	6,101	—	369,727	4,920	422,036
1938-39..	3,011,813	66,826	—	—	—	7,512	5,197	—	374,149	3,764	496,260
1939-40..	2,668,756	39,432	—	—	8,700	2,234	—	—	—	—	593,499
1945-46..	948,715	45,028	—	—	7,200	17,861	3,981	—	—	—	5,837
1946-47..	2,186,749	47,830	40	835	6,600	25,036	6,286	—	—	—	80,244
1947-48..	2,437,545	44,965	65	1,060	17,385	28,522	10,277	—	—	9,000	120,716
1948-49..	2,596,131	52,518	5,738	1,251	16,347	23,382	10,026	—	—	11,820	134,408
1949-50..	2,548,230	41,348	16,494	2,132	14,951	30,231	13,776	98,660	—	12,292	197,613
1950-51..	2,955,532	40,593	56,090	2,925	22,105	30,993	9,303	145,721	—	14,012	203,489
1951-52..	2,906,544	41,825	91,830	2,171	16,290	35,406	817	16,485	—	9,524	304,499
1952-53..	2,542,110	32,187	102,191	2,837	18,294	30,169	4,834	—	—	10,124	267,820
1953-54..	2,862,408	53,478	100,515	3,636	17,507	27,885	1,419	—	—	10,506	389,058
1954-55..	2,760,856	50,568	96,377	3,530	18,241	36,108	6,164	—	—	13,229	513,253
1955-56..	2,911,616	43,376	104,607	3,596	13,595	41,751	6,402	—	—	17,141	601,686
1956-57..	2,929,085	51,330	108,069	1,300	21,001	44,688	7,380	—	—	18,800	688,212
1957-58..	3,048,969	94,199	107,845	2,524	23,753	48,301	3,475	—	—	20,335	834,251
1958-59..	2,914,647	39,430	94,311	4,736	23,522	44,851	—	8,280	—	15,511	859,002
1959-60..	2,881,630	40,500	89,366	10,800	27	41,443	—	—	—	17,536	816,073
<i>Percentage figures:</i>	%	%	%	%	%	%	%	%	%	%	%
1937-38..	100.0	1.4	—	—	0.4	0.3	0.2	—	10.2	0.1	11.6
1938-39..	100.0	2.2	—	—	—	0.2	0.2	—	12.4	0.1	16.5
1939-40..	100.0	1.5	—	—	0.3	0.1	—	—	—	—	22.2
1945-46..	100.0	4.7	—	—	0.8	1.9	0.4	—	—	—	0.6
1946-47..	100.0	2.2	—	—	0.3	1.1	0.3	—	—	—	3.7
1947-48..	100.0	1.8	—	—	0.7	1.2	0.4	—	—	0.4	5.0
1948-49..	100.0	2.0	0.2	—	0.6	0.9	0.4	—	—	0.5	5.2
1949-50..	100.0	1.6	0.6	0.1	0.6	1.2	0.5	3.9	—	0.5	7.8
1950-51..	100.0	1.4	1.9	0.1	0.7	1.0	0.3	4.9	—	0.5	6.9
1951-52..	100.0	1.4	3.2	0.1	0.6	1.2	—	0.6	—	0.3	10.5
1952-53..	100.0	1.3	4.0	0.1	0.7	1.2	0.2	—	—	0.4	10.5
1953-54..	100.0	1.9	3.5	0.1	0.6	1.0	0.1	—	—	0.4	13.6
1954-55..	100.0	1.8	3.5	0.1	0.7	1.3	0.2	—	—	0.5	18.6
1955-56..	100.0	1.5	3.6	0.1	0.5	1.4	0.2	—	—	0.6	20.7
1956-57..	100.0	1.8	3.7	0.1	0.7	1.5	0.3	—	—	0.6	23.5
1957-58..	100.0	3.1	3.5	0.1	0.8	1.6	0.1	—	—	0.7	27.4
1958-59..	100.0	1.4	3.2	0.2	0.8	1.5	—	0.3	—	0.5	29.5
1959-60..	100.0	1.4	3.1	0.4	—	1.4	—	—	—	0.6	28.3

¹⁾ Barrel = 170 kg. (Barrel = abt. $\frac{1}{8}$ long ton, 1 long ton = 1,016 kg.) ²⁾ The figures include the catch

years 1937/38—1939/40 and 1945/46—1959/60. All areas.

Oil production in barrels.¹⁾

Years.	Nether-lands.	New Zealand.	Norway.	Panama.	Peru.	Portugal.	Spain.	Union of South Africa.	United Kingdom.	United States of America.	U.S.S.R.
<i>Absolute figures:</i>											
1937-38.	—	2,391	²⁾ 1,169,069	117,650	—	7,284	—	332,775	959,692	166,299	9,102
1938-39.	—	2,689	²⁾ 853,867	68,853	—	6,920	—	207,738	796,796	102,388	18,854
1939-40.	—	3,909	909,790	113,000	—	10,047	—	159,329	766,209	62,607	—
1945-46.	—	4,184	536,803	—	—	16,016	—	30,552	265,112	—	16,141
1946-47.	77,310	3,825	991,709	—	—	19,537	—	252,556	638,576	1,365	35,000
1947-48.	85,130	3,864	1,064,313	—	—	23,103	956	242,187	685,650	2,350	98,002
1948-49.	109,849	5,838	1,119,514	56,720	—	12,859	2,009	226,419	673,387	1,493	132,553
1949-50.	82,792	2,844	1,122,466	—	—	11,100	2,482	198,978	534,629	—	165,442
1950-51.	103,560	4,482	1,150,728	198,532	2,015	41,346	4,529	250,946	490,199	1,358	182,606
1951-52.	110,300	4,800	1,151,404	97,073	1,941	20,224	5,787	261,998	500,254	—	233,916
1952-53.	103,710	4,560	826,243	164,150	22,108	15,814	2,960	203,749	491,012	—	239,348
1953-54.	97,596	8,820	1,041,389	73,000	31,168	19,283	4,375	190,224	537,774	—	254,775
1954-55.	64,739	5,020	878,359	147,880	31,335	20,158	5,250	145,015	471,315	—	254,315
1955-56.	103,465	6,325	859,246	164,778	32,604	18,843	4,481	160,644	474,760	5,760	248,556
1956-57.	94,193	8,640	1,011,085	—	45,745	21,374	6,247	170,542	381,931	9,145	239,403
1957-58.	116,497	8,235	861,806	—	56,315	17,173	4,310	89,401	400,705	12,775	347,069
1958-59.	126,488	16,338	834,143	—	74,785	15,295	5,260	94,090	293,760	15,759	349,086
1959-60.	143,050	15,184	690,944	—	75,426	13,107	5,263	102,786	288,117	12,586	519,422
<i>Percentage figures:</i>	%	%	%	%	%	%	%	%	%	%	%
1937-38.	—	0.1	32.1	3.2	—	0.2	—	9.1	26.3	4.6	0.2
1938-39.	—	0.1	28.4	2.3	—	0.2	—	6.9	26.5	3.4	0.6
1939-40.	—	0.2	34.1	4.2	—	0.4	—	6.0	28.7	2.3	—
1945-46.	—	0.4	56.6	—	—	1.7	—	3.2	28.0	—	1.7
1946-47.	3.5	0.2	45.4	—	—	0.9	—	11.5	29.2	0.1	1.6
1947-48.	3.5	0.2	43.7	—	—	1.0	—	9.9	28.1	0.1	4.0
1948-49.	4.2	0.2	43.1	2.2	—	0.5	0.1	8.7	26.0	0.1	5.1
1949-50.	3.2	0.1	44.1	—	—	0.4	0.1	7.8	21.0	—	6.5
1950-51.	3.5	0.1	38.9	6.7	0.1	1.4	0.2	8.5	16.6	0.1	6.2
1951-52.	3.8	0.2	39.6	3.3	0.1	0.7	0.2	9.0	17.2	—	8.0
1952-53.	4.1	0.2	32.5	6.5	0.9	0.6	0.1	8.0	19.3	—	9.4
1953-54.	3.4	0.3	36.4	2.5	1.1	0.7	0.1	6.6	18.8	—	8.9
1954-55.	2.3	0.2	31.8	5.4	1.1	0.7	0.2	5.3	17.1	—	9.2
1955-56.	3.6	0.2	29.5	5.7	1.1	0.6	0.2	5.5	16.3	0.2	8.5
1956-57.	3.2	0.3	34.5	—	1.6	0.7	0.2	5.8	13.0	0.3	8.2
1957-58.	3.8	0.3	28.3	—	1.8	0.6	0.1	2.9	13.1	0.4	11.4
1958-59.	4.3	0.6	28.6	—	2.6	0.5	0.2	3.2	10.1	0.5	12.0
1959-60.	5.0	0.5	24.0	—	2.6	0.5	0.2	3.6	10.0	0.4	18.0

of two Norwegian expeditions hired by Germany—in 1937/38 180,750 barrels, and in 1938/39 118,383 barrels.

Table g.—Sperm-oil production in the years 1938/39 and 1953/54—1959/60.

Grounds.	¹⁾ 1938-39	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60
	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels
South Georgia	6,971	8,677	4,154	4,119	3,907	10,723	10,305	4,399
Antarctic, pelagic	144,775	135,890	281,722	337,739	214,893	301,059	251,794	191,517
Africa:—								
Natal	16,083	14,858	16,447	15,007	22,412	21,701	22,866	27,510
Cape Province	—	—	—	—	11,159	13,750	14,900	17,890
Madagascar	1,291	—	—	—	—	—	—	—
Gabon ²⁾	—	—	—	—	—	—	230	—
Spanish Morocco	—	625	—	—	—	—	—	—
South Atlantic, pelagic	—	—	⁴⁾ 835	⁴⁾ 3,738	⁴⁾ 2,554	⁴⁾ 415	⁴⁾ 309	⁴⁾ 989
Brazil	—	45	15	51	35	144	86	608
North Atlantic and Arctic:—								
Azores	6,920	16,761	15,871	14,244	16,536	13,958	12 148	⁵⁾ 9,294
Madeira	—	2,479	4,287	4,568	4,730	3,215	3,052	3,813
Spain	—	1,505	3,075	3,873	5,203	3,533	3,980	3,275
Portugal	—	—	—	—	—	—	—	—
Norway	737	4,776	2,070	2,930	1,337	3,968	1,271	4,104
Scotland	—	—	—	—	—	—	—	—
Faroe Islands	558	452	3,245	4,430	2,636	2,093	—	—
Iceland	183	2,894	1,100	5,676	5,065	7,682	7,617	10,471
West Greenland	—	224	396	567	1,035	664	—	—
Newfoundland	840	—	—	598	760	285	82	19
Pacific North:—								
California	—	—	—	232	529	241	457	450
British Columbia	—	7,738	11,284	4,697	5,957	3,086	7,394	—
Alaska	2,655	—	—	—	—	—	—	—
Bering Sea	—	23,882	47,905	73,994	76,442	75,430	84,806	87,441
Kamtschatka	7,904	26,929	35,369	37,565	44,720	58,370	68,621	91,202
Kuril Islands	—	35,082	36,324	40,374	40,525	49,426	41,562	34,309
Japan	10,961	26,568	25,580	36,051	37,614	51,050	40,484	40,923
Bonin Island, pelagic	—	—	—	—	—	—	—	—
Ryukyu Islands	—	—	—	—	—	—	127	249
Indian Ocean	—	—	—	—	⁴⁾ 742	—	—	—
South Pacific Ocean	—	—	—	—	⁴⁾ 1,712	—	—	—
Peru	—	102,925	30,667	32,441	45,745	56,315	74,781	75,426
Chile	5,928	17,194	18,929	25,517	38,169	37,478	38,801	33,166
Australia and New Zealand	—	—	243	2,699	5,334	10,598	5,906	11,337
Total	205,806	429,504	539,518	651,110	589,651	725,184	691,579	648,392
<i>Of which produced by:</i>								
Norway	{ In Antarctic 65,976	{ 35,252	{ 139,729	{ 132,469	{ 99,666	{ 121,704	{ 88,354	{ 63,791
	{ Outside „ 737	{ 4,776	{ 2,905	{ 2,930	{ 2,187	{ 4,383	{ 1,480	{ 5,093
United Kingdom	{ In Antarctic 16,729	{ 50,498	{ 56,902	{ 65,795	{ 29,149	{ 40,514	{ 40,535	{ 22,002
	{ Outside „ 840	{ —	{ —	{ —	{ —	{ —	{ 100	{ —
Union of South Africa	{ In Antarctic 1,711	{ 8,320	{ 16,978	{ 28,860	{ 4,019	{ —	{ —	{ —
	{ Outside „ 17,374	{ 14,858	{ 16,447	{ 15,007	{ 33,571	{ 35,451	{ 37,766	{ 45,400
Japan	{ In Antarctic 35,797	{ 31,853	{ 51,894	{ 69,964	{ 72,870	{ 105,745	{ 95,842	{ 65,877
	{ Outside „ 10,961	{ 50,450	{ 73,485	{ 110,045	{ 116,510	{ 126,430	{ 125,290	{ 128,364
U.S.S.R.	{ In Antarctic —	{ 9,788	{ 10,029	{ 10,565	{ 6,571	{ 24,880	{ 20,374	{ 40,397
	{ Outside „ 7,904	{ 62,011	{ 71,693	{ 77,939	{ 85,245	{ 107,796	{ 110,183	{ 125,511
Netherlands ..	{ In Antarctic —	{ 6,957	{ 6,404	{ 18,272	{ 4,846	{ 12,656	{ 13,784	{ 2,019
	{ Outside „ —	{ —	{ —	{ —	{ 1,704	{ —	{ —	{ —
Panama	{ In Antarctic 3,078	{ —	{ 2,190	{ 14,540	{ —	{ —	{ —	{ —
	{ Outside „ —	{ 73,000	{ —	{ 3,738	{ —	{ —	{ —	{ —
Argentina	{ In Antarctic 4,942	{ 1,899	{ 1,750	{ 1,393	{ 1,579	{ 6,233	{ 3,210	{ 1,830
Canada	{ Outside „ —	{ 7,738	{ 11,284	{ 5,295	{ 6,717	{ 3,371	{ 7,476	{ 19
Portugal	{ Outside „ 6,920	{ 19,240	{ 20,158	{ 18,812	{ 21,266	{ 17,173	{ 15,200	{ ⁵⁾ 13,107

(Cont. on next page.)

¹⁾ 1938-39 = Antarctic season 1938-39 and summer 1939, a.s.o. ²⁾ In earlier publications French Congo.
³⁾ Calculated. ⁴⁾ Produced by floating factories on their voyage to and from the Antarctic. ⁵⁾ Excl. the production from San Jorge and San Miguel, Azores.

Table h (cont.).

Species of whales and whaling grounds.	1960	1959	1958	1957	1956	1955	1954	1938
	Engl. ft.	Engl. ft.	Engl. ft.	Engl. ft.	Engl. ft.	Engl. ft.	Engl. ft.	Engl. ft.
Norway	59.88	60.46	59.31	58.93	59.23	57.89	59.20	} 62.08
Faroe Islands	—	—	59.19	59.57	59.79	58.95	58.00	
Iceland	61.01	60.51	59.54	59.13	58.94	59.43	58.56	
West Greenland	—	—	62.13	61.24	62.71	60.86	59.77	
Newfoundland	53.00	56.79	58.07	60.57	60.29	57.50	—	
Pacific North:—								
California	60.94	61.07	61.28	61.59	58.33	—	—	—
British Columbia	—	58.15	59.20	59.11	57.42	57.76	57.19	—
Bering Sea	60.52	61.98	61.29	61.44	61.20	61.46	61.94	—
Kamtschatka	61.91	61.42	61.64	61.60	61.68	61.12	60.67	—
Kuril Islands	60.46	60.93	61.64	61.73	62.78	61.37	60.06	—
Japan	56.78	56.15	56.15	56.22	56.97	57.22	56.47	—
Peru	—	—	—	—	51.00	—	—	—
Chile	—	57.86	56.51	54.55	54.46	54.38	57.23	—
Australia	—	50.00	—	—	67.00	—	—	—
Humpbacks.								
Antarctic:—								
South Georgia	—	—	—	—	—	40.00	39.36	41.53
Pelagic whaling	40.93	39.95	41.52	41.43	39.99	41.05	40.34	41.07
Africa:—								
Natal	37.36	39.05	38.38	38.41	38.03	39.29	37.41	36.41
Cape Province	45.75	39.57	44.50	39.00	—	—	—	—
Gabon ¹⁾	—	39.88	—	—	—	—	—	—
Brazil:—								
Paraiba	39.60	41.75	43.20	—	41.50	43.00	40.39	—
Santa Catarina	—	—	—	—	—	39.00	—	—
Cabo Frio	38.00	—	—	—	—	—	—	—
North Atlantic and Arctic:								
Madeira	—	—	—	38.00	—	—	—	—
Norway	—	—	—	—	—	42.00	39.83	—
Faroe Islands	—	—	—	40.00	46.33	—	—	—
Iceland	—	—	—	—	—	—	44.00	—
West Greenland	—	—	—	—	—	—	—	—
Newfoundland	—	—	41.00	—	—	—	—	—
Pacific North:—								
California	41.33	39.99	41.27	40.74	40.89	—	—	—
British Columbia	—	40.04	40.83	40.73	40.11	39.08	39.68	—
Bering Sea	—	—	41.54	—	40.27	39.88	40.96	—
Kamtschatka	41.37	40.86	40.30	40.98	39.23	40.49	38.90	—
Kuril Islands	45.67	38.00	39.25	39.00	39.10	44.87	41.25	—
Japan	36.00	41.75	44.25	38.60	41.57	39.22	39.63	—
Bonin Island	—	—	—	—	—	—	—	—
Ryukyu Islands	39.50	40.24	38.85	40.22	—	—	—	—
Peru	—	—	—	—	38.00	—	—	—
Chile	—	—	—	41.00	—	45.00	—	—
Australia	40.37	40.45	40.95	40.84	41.21	40.90	39.90	—
New Zealand	40.09	40.36	40.62	40.37	40.59	40.54	40.28	—
Sei-whales.								
Antarctic:—								
South Georgia	49.53	49.75	50.05	49.50	49.95	50.00	49.25	49.94
Pelagic whaling	50.45	50.83	50.33	50.38	50.42	46.48	49.20	51.00
Africa:—								
Natal	44.03	44.13	44.05	43.20	41.91	43.78	43.94	—
Cape Province	47.11	45.72	45.12	45.81	—	—	—	—
Gabon ¹⁾	—	44.75	—	—	—	—	—	—
Spanish Morocco	—	—	—	—	—	—	51.29	—
South Atlantic, pelagic:—	—	—	—	—	45.00	—	—	—

¹⁾ In earlier publications French Congo.

Table h (cont.).

Species of whales and whaling grounds.	1960	1959	1958	1957	1956	1955	1954	1938
	Engl. ft.	Engl. ft.	Engl. ft.	Engl. ft.	Engl. ft.	Engl. ft.	Engl. ft.	Engl. ft.
Brazil:—								
Paraiba	50.81	50.29	50.53	50.93	49.94	50.31	50.68	—
Cabo Frio	47.22	—	—	—	—	—	—	—
Santa Catarina	—	—	—	—	—	47.00	—	—
North Atlantic and Arctic:								
Spain	—	—	—	—	—	—	—	—
Norway	39.50	46.25	42.83	35.00	44.94	44.30	44.65	—
Faroe Islands	—	—	41.00	—	44.33	42.36	43.33	—
Iceland	44.14	44.01	43.33	42.68	44.13	42.99	42.27	—
West Greenland	—	—	—	50.00	45.00	51.67	—	—
Newfoundland	—	43.00	—	49.80	48.50	—	—	—
Pacific North:—								
California	43.94	45.74	46.50	51.00	—	—	—	—
British Columbia	—	43.94	44.49	44.47	44.16	44.23	43.84	—
Bering Sea	46.90	49.00	47.08	46.61	46.36	47.89	47.11	—
Kamtchatka	47.56	47.04	47.79	50.28	49.69	47.10	48.73	—
Kuril Islands	46.34	47.05	46.52	45.63	46.55	47.22	48.09	—
Japan	41.10	42.48	42.41	42.40	41.54	42.69	42.55	—
Bonin Island	—	—	—	—	—	—	—	—
Chile	—	38.67	45.93	44.26	42.71	42.17	45.50	—
New Zealand	—	45.00	—	43.50	44.00	—	—	—
Sperm-whales.								
Antarctic:—								
South Georgia	47.58	46.47	47.12	45.69	46.83	48.72	46.97	50.53
Pelagic whaling	47.26	47.20	47.52	48.67	48.39	48.91	49.20	53.27
Africa:—								
Natal	38.96	38.57	39.66	40.03	40.72	39.54	43.57	42.12
Cape Province	39.05	37.64	36.89	39.41	—	—	—	—
Gabon ¹⁾	—	35.14	—	—	—	—	—	—
Spanish Morocco	—	—	—	—	—	—	35.12	—
South Atlantic, pelagic ...	40.00	38.31	43.50	41.68	40.99	38.38	—	—
Brazil:—								
Paraiba	53.00	40.00	44.75	35.50	41.00	40.00	49.00	—
Cabo Frio	37.75	—	—	—	—	—	—	—
North Atlantic and Arctic:								
Azores	—	37.16	37.83	37.39	38.99	—	—	—
Madeira	—	44.30	34.53	39.23	39.57	—	—	—
Spain	—	—	—	—	—	—	—	—
Norway	50.37	48.61	48.36	48.03	48.47	46.73	49.63	—
Faroe Islands	—	—	49.80	46.40	47.12	46.83	49.45	—
Iceland	51.15	50.85	51.70	51.78	50.85	48.65	48.70	53.15
West Greenland	—	—	50.69	51.50	55.21	52.56	50.11	—
Newfoundland	51.00	54.00	47.29	55.71	51.62	—	—	—
Pacific North:—								
California	43.38	42.59	45.75	44.43	43.22	—	—	—
British Columbia	—	40.31	39.71	40.89	41.56	42.48	42.61	—
Bering Sea	46.06	45.72	46.05	44.79	45.55	42.99	47.52	—
Kamtchatka	44.58	45.64	44.75	44.46	43.65	45.59	44.40	—
Kuril Islands	38.27	38.65	38.13	39.02	39.71	38.35	40.33	—
Japan	37.01	36.49	36.47	36.31	36.70	36.92	37.43	—
Ryukyu Islands	39.93	39.29	—	—	—	—	—	—
Bonin Island	—	—	—	—	—	—	—	—
South Pacific Ocean, pel... ..	—	—	—	43.67	—	—	—	—
Indian Ocean, pel.	—	—	—	43.77	—	—	—	—
Peru	38.01	—	—	—	39.80	—	—	—
Chile	—	37.04	38.24	37.95	37.96	39.71	38.46	—
Australia	42.94	44.08	42.61	42.86	44.85	47.00	—	—
New Zealand	—	—	—	—	48.50	—	—	—

¹⁾ In earlier publications French Congo.

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

Grounds.	Years.	Species of whales caught.							Oil production.	Expeditions.			
		Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.	Total of whales		Shore stations.	Float-ing factories.	Catch-ers.	
<i>North Atlantic and Arctic. Total</i>	1939	26	665	9	59	40	²⁾ 3	802	26,066	7	—	21	
	1949	79	1,259	17	62	157	³⁾ 1	1,575	58,840	9	—	30	
	1950	54	1,422	29	21	170	³⁾ 2	1,698	63,612	11	—	32	
	1951	52	1,300	40	181	178	—	1,751	61,635	11	—	32	
	1952	15	635	3	51	59	—	763	25,172	7	—	18	
	1953	15	585	8	145	148	⁴⁾ 2	903	27,261	8	—	21	
	1954	11	486	7	116	168	—	788	25,507	7	—	18	
	1955	13	550	1	158	142	—	864	27,733	6	—	18	
	1956	9	475	3	94	277	—	858	31,174	7	—	19	
	1957	11	672	1	85	210	—	979	33,802	6	—	17	
	1958	5	491	4	98	288	4	890	32,971	6	—	16	
	1959	6	372	—	76	152	—	606	24,153	4	—	11	
	1960	—	289	—	44	262	—	595	26,188	4	—	13	
<i>Norway.</i>	1939	4	282	1	46	14	²⁾ 3	350	11,155	3	—	9	
	1949	4	342	1	6	20	³⁾ 1	374	11,487	4	—	12	
	1950	3	342	8	3	79	—	435	15,979	4	—	13	
	1951	4	321	5	11	76	—	417	14,779	4	—	12	
	1952	1	374	2	24	51	—	452	14,761	4	—	11	
	1953	7	275	4	48	44	⁴⁾ 2	380	12,234	4	—	11	
	1954	2	270	6	20	94	—	392	13,532	4	—	11	
	1955	1	210	1	10	44	—	266	8,283	3	—	8	
	1956	—	132	—	16	58	—	206	6,764	3	—	8	
	1957	—	139	—	1	30	—	170	5,862	2	—	6	
	1958	—	123	—	6	92	⁴⁾ 1	222	7,581	2	—	6	
1959	—	180	—	4	31	—	215	7,897	2	—	6		
1960	—	128	—	2	84	—	214	8,625	3	—	9		
<i>Scotland.</i>	1950	2	33	—	—	—	—	35	1,057	1	—	1	
	1951	4	13	—	3	1	—	21	791	1	—	1	
<i>Faroe Islands.</i>	1939	2	153	1	8	9	—	173	5,197	2	—	6	
	1949	10	222	1	21	53	—	307	9,541	2	—	7	
	1950	6	377	1	2	46	—	432	13,232	2	—	6	
	1951	9	156	—	126	70	—	361	8,953	2	—	6	
	1952	—	20	—	2	1	—	23	522	1	—	2	
	1953	2	87	1	27	52	—	169	4,557	2	—	5	
	1954	—	17	—	3	11	—	31	942	1	—	2	
	1955	1	80	—	11	69	—	161	5,395	1	—	5	
	1956	—	43	3	3	97	—	146	5,460	1	—	5	
	1957	—	141	1	—	57	—	199	6,016	1	—	5	
1958	—	16	—	1	40	—	57	2,424	1	—	4		
<i>Iceland.</i>	1939	13	109	1	3	4	—	130	3,764	1	—	3	
	1949	33	249	2	12	28	—	324	11,820	1	—	4	
	1950	28	226	—	—	11	—	265	12,292	1	—	4	
	1951	11	312	1	2	13	—	339	14,012	1	—	4	
	1952	14	224	—	25	2	—	265	9,524	1	—	4	
	1953	5	207	2	70	48	—	332	10,124	1	—	4	
	1954	9	177	1	93	54	—	334	10,506	1	—	4	
	1955	10	236	—	134	20	—	400	13,229	1	—	4	
	1956	8	265	—	72	95	—	440	17,141	1	—	4	
	1957	10	348	—	78	81	—	517	18,800	1	—	4	

(Cont. on next page.)

¹⁾ Barrel = 170 kg. (Barrel = abt. $\frac{1}{8}$ long ton). ²⁾ 2 Minke-whales and 1 bottlenose. ³⁾ Bottlenose. ⁴⁾ Minke-whales. ⁵⁾ 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.

Table i (cont.).

Grounds.	Years.	Species of whales caught.							Oil production.	Expeditions.			
		Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.	Total of whales.		Shore stations.	Floating factories.	Catchers.	
<i>Iceland (cont.)</i>	1958	5	289	-	91	123	-	508	20,335	1	-	4	
	1959	6	178	-	67	120	-	371	15,511	1	-	4	
	1960	-	160	-	42	177	-	379	17,536	1	-	4	
<i>West Greenland.</i>	1939	-	3	2	-	-	-	5	-	-	-	1	
	1949	2	21	2	-	3	-	28	485	-	-	1	
	1950	-	35	4	-	5	1) 2	46	544	1	-	1	
	1951	-	15	5	-	6	-	26	350	1	-	1	
	1952	-	16	-	-	5	-	21	295	1	-	1	
	1953	1	15	1	-	4	-	21	277	1	-	1	
	1954	-	22	-	-	9	-	31	477	1	-	1	
	1955	1	22	-	3	9	-	35	769	1	-	1	
	1956	1	28	-	1	14	-	44	942	1	-	1	
	1957	1	21	-	1	28	-	51	1,364	1	-	1	
	1958	-	8	-	-	26	1) 3	37	1,051	1	-	1	
<i>Newfoundland and Labrador.³⁾</i>	1939	7	118	4	2	13	-	144	5,950	1	-	2	
	1949	30	425	11	23	53	-	542	25,507	2	-	6	
	1950	15	409	16	16	29	-	485	20,508	2	-	7	
	1951	24	483	29	39	12	-	587	22,750	2	-	8	
	1952	-	1	1	-	-	-	2	70	-	-	-	
	1953	-	1	-	-	-	-	1	39	-	-	-	
	1954	-	-	-	-	-	-	-	-	-	-	-	
	1955	-	2	-	-	-	-	2	77	-	-	-	
	1956	-	7	-	2	13	-	22	867	1	-	1	
	1957	-	23	-	5	14	-	42	1,760	1	-	1	
	1958	-	55	4	-	7	-	66	1,580	1	-	1	
1959	-	14	-	5	1	-	20	745	1	-	1		
1960	-	1	-	-	1	-	2	27	-	-	-		

¹⁾ Bottlenoses. ²⁾ Calculated. ³⁾ From and including 1947 some Minke-whales, bottlenoses and a great number of pilot whales (potheads) have been taken by one station and 2 whale catchers. In some seasons a few "long whales" have also been taken. These long whales together with a calculated oil production have been included in the tables. The matériel is, however, not included.

Table j.—Azores.

Years	Species of whales caught.							Oil production.	Expeditions. ¹⁾		
	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.	Total of whales.		Shore stations.	Floating factories.	Catchers.
								Barrels.			
1939	-	-	-	-	400	-	400	6,920	-	-	-
1947	-	-	-	-	565	-	565	12,974	-	-	-
1948	-	-	-	-	698	-	698	15,488	-	-	-
1949	-	-	-	-	484	-	484	9,991	-	-	-
1950	-	-	-	-	423	-	423	9,949	-	-	-
1951	-	-	-	-	741	-	741	16,199	-	-	-
1952	-	-	-	-	623	-	623	16,116	-	-	-
1953	-	-	-	-	528	-	528	12,661	-	-	-
1954	-	-	-	-	683	-	683	16,761	-	-	-
1955	-	-	-	-	664	-	664	15,871	-	-	-
1956	-	-	-	-	536	-	536	14,244	-	-	-
1957	-	-	-	-	671	-	671	16,536	-	-	-
1958	-	-	-	-	527	-	527	13,958	-	-	-
1959	-	-	-	-	485	-	485	12,148	-	-	-
1960 ²⁾	-	-	-	-	338	-	338	9,294	-	-	-

¹⁾ Several small shore stations. Whaling is carried on with rowing boats, and the whales are towed to shore by gasoline launches. ²⁾ Excluding the catch from San Miguel and San Jorge.

Table k.—Madeira.

Years	Species of whales caught.							Oil production.	Expeditions. ¹⁾		
	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.	Total of whales.		Shore stations.	Floating factories.	Catchers.
1950	—	—	—	—	14	—	14	Barrels. 387	—	—	—
1951	—	—	—	—	182	—	182	3,594	—	—	—
1952	—	6	—	—	156	—	162	4,108	—	—	—
1953	—	2	—	—	107	—	109	3,153	—	—	—
1954	—	2	—	—	122	—	124	2,522	—	—	—
1955	—	—	—	—	175	—	175	4,287	—	—	—
1956	—	1	—	—	168	—	169	4,599	—	—	—
1957	—	2	1	—	168	—	171	4,838	—	—	—
1958	—	—	—	—	174	—	174	3,215	—	—	—
1959	—	—	—	—	86	²⁾ 1	87	3,147	—	—	—
1960	—	—	—	—	168	—	168	3,813	—	—	—

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

Table l.—Spain.

Years.	Species of whales caught.							Oil production.	Expeditions.		
	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.	Total of whales.		Shore stations.	Floating factories.	Catchers.
1950	—	19	—	8	3	—	30	Barrels. 688	1	—	2
1951	—	27	—	34	35	—	96	1,763	1	—	2
1952	—	74	—	—	94	¹⁾ 49	217	4,966	2	—	6
1953	—	18	—	12	38	¹⁾ 29	97	2,423	2	—	5
1954	—	30	—	—	105	¹⁾ 82	217	3,392	2	—	5
1955	—	36	—	—	158	¹⁾ 98	292	5,250	2	—	6
1956	—	5	—	6	234	¹⁾ 28	273	4,481	3	—	5
1957	—	—	—	—	241	¹⁾ 60	301	6,247	3	—	5
1958	—	4	—	3	149	¹⁾ 25	181	4,310	3	—	5
1959	—	—	—	—	182	¹⁾ 55	237	5,260	3	—	5
1960	—	—	—	—	122	¹⁾ 75	197	5,263	2	—	3

¹⁾ Baleen whales. No specification.

Table m.—Portugal.

Years.	Species of whales caught.							Oil production.	Expeditions.		
	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.	Total of whales.		Shore stations.	Floating factories.	Catchers.
1944	—	38	—	—	20	—	58	Barrels. ¹⁾ 1,470	1	—	—
1945	—	36	—	—	11	—	47	1,123	1	—	—
1946	—	42	—	—	31	—	73	1,534	1	—	—
1947	—	111	—	—	50	—	161	3,978	1	—	3
1948	—	106	—	—	35	—	141	3,519	1	—	3
1949	—	14	—	—	23	—	37	879	1	—	3
1950	—	34	—	—	10	—	44	764	1	—	3
1951	1	9	—	—	11	²⁾ 1	22	505	1	—	3

¹⁾ Calculated. ²⁾ Minke-whale.

Table n.—South Atlantic Ocean. (North of 40° South Lat.)

Catch by floating factories on voyage to and from the Antarctic whaling grounds.

1955	—	—	—	—	39	—	39	835	—	¹⁾ (2)	¹⁾ —
1956	—	—	—	3	121	—	124	3,818	—	¹⁾ (1)	¹⁾ —
1957	—	—	—	—	53	—	53	2,554	—	¹⁾ (2)	¹⁾ —
1958	—	—	—	—	16	—	16	415	—	¹⁾ (1)	¹⁾ —
1959	—	—	—	—	16	—	16	309	—	¹⁾ (3)	¹⁾ —
1960	—	—	—	—	34	—	34	989	—	¹⁾ (1)	¹⁾ —

¹⁾ The matériel is included in the Antarctic statistics.

Table o.—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>	1939	27	502	200	42	676	²⁾ 1,240	2,637	106,793	2	1	21	
	1949	23	707	2,894	238	965	¹⁾ 139	4,966	185,003	5	2	41	
	1950	14	604	2,273	438	693	¹⁾ 100	4,122	154,134	5	2	43	
	1951	24	1,047	1,217	1,006	1,319	26	4,639	154,736	6	1	45	
	1952	19	766	391	1,043	726	—	2,945	93,342	4	1	35	
	1953	9	576	98	400	618	¹⁾ 7	1,708	53,831	4	—	22	
	1954	15	527	27	78	441	—	1,088	43,936	2	—	14	
	1955	6	477	49	176	602	—	1,310	45,206	1	—	13	
	1956	5	613	36	101	474	—	1,229	51,105	1	—	13	
	1957	9	901	37	323	1,232	¹⁾ 34	2,536	83,956	2	—	15	
	1958	7	943	41	577	1,432	¹⁾ 26	3,026	89,401	2	—	16	
	1959	3	964	205	908	1,489	¹⁾ 40	3,609	102,370	3	—	18	
1960	7	993	40	681	1,793	¹⁾ 9	3,523	102,786	2	—	17		
<i>Natal.</i>	1939	27	502	200	42	615	—	1,386	51,529	2	—	16	
	1949	17	464	190	101	694	—	1,466	51,983	2	—	17	
	1950	9	323	151	101	391	—	975	38,680	2	—	18	
	1951	20	789	103	247	910	³⁾ 2	2,071	74,446	2	—	20	
	1952	8	451	111	155	356	—	1,081	45,161	2	—	14	
	1953	5	441	89	96	353	—	984	39,313	2	—	14	
	1954	10	515	27	71	400	—	1,023	42,953	1	—	12	
	1955	6	477	49	176	602	—	1,310	45,206	1	—	13	
	1956	5	613	36	101	474	—	1,229	51,105	1	—	13	
	1957	5	758	34	60	763	—	1,620	63,883	1	—	11	
	1958	3	674	39	172	738	—	1,626	59,801	1	—	11	
	1959	3	607	38	379	824	—	1,851	60,440	1	—	11	
1960	6	738	36	183	1,024	—	1,987	68,736	1	—	11		
<i>Cape Province.</i>	1949	5	188	15	119	209	¹⁾ 139	675	13,708	1	—	6	
	1950	14	242	7	324	161	¹⁾ 100	838	15,000	1	—	7	
	1951	4	218	9	237	211	¹⁾ 23	702	14,589	1	—	7	
	1952	1	303	15	711	331	—	1,371	30,875	1	—	12	
	1953	4	126	9	295	252	¹⁾ 7	693	13,981	1	—	6	
	1957	4	143	3	263	469	¹⁾ 34	916	20,073	1	—	4	
	1958	4	269	2	405	694	¹⁾ 26	1,400	29,600	1	—	5	
	1959	—	357	7	525	651	¹⁾ 40	1,580	33,650	1	—	5	
1960	1	255	4	498	769	¹⁾ 9	1,536	34,050	1	—	6		
<i>Madagascar.</i>	1939	—	—	—	—	61	²⁾ 1,240	1,301	55,264	—	1	5	
	1949	1	—	1,333	—	1	—	1,335	60,583	—	1	8	
	1950	1	10	711	3	⁴⁾ 64	—	789	34,424	—	1	9	
<i>Gabon⁵⁾</i>	1949	—	—	1,356	—	—	—	1,356	56,720	1	1	8	
	1950	—	—	1,404	—	—	—	1,404	64,236	1	1	7	
	1951	—	4	1,105	470	146	³⁾ 1	1,726	62,935	2	1	14	
	1952	—	—	265	171	—	—	436	16,485	—	1	7	
	1959	—	—	160	4	14	—	178	8,280	1	—	2	
<i>Spanish Morocco.</i>	1949	—	55	—	18	61	—	134	2,009	1	—	2	
	1950	—	29	—	10	77	—	116	1,794	1	—	2	
	1951	—	36	—	52	52	—	140	2,766	1	—	4	
	1952	—	12	—	6	39	—	57	821	1	—	2	
	1953	—	9	—	9	13	—	31	537	1	—	2	
	1954	5	12	—	7	41	—	65	983	1	—	2	

¹⁾ Bryde-whales. ²⁾ No specification. ³⁾ Right-whales. ⁴⁾ 52 sperm-whales caught in the Indian Ocean. ⁵⁾ In earlier publications French Congo. In 1951 St. Thomé included.

Table p.—Pacific North.
(Exclusive Japan, Korea, Bering Sea, Kamchatka, and Kuril Islands.)

Grounds.	Years.	Species of whales caught.							Oil production.	Expeditions.			
		Blue.	Fin.	Hump-back.	Sel.	Sperm.	Others.	Total of whales.		Barrels.	Shore stations.	Floating factories.	Catchers.
<i>Pacific North. Total.</i>	1939	5	93	85	—	49	—	232	9,424	2	—	5	
	1947	4	17	14	161	206	—	402	2,137	1	3	6	
	1948	1	59	134	107	191	—	492	8,815	2	2	11	
	1949	2	115	91	119	182	—	509	10,202	2	1	9	
	1950	4	150	95	267	103	²⁾ 1	620	12,345	1	1	8	
	1951	9	225	55	285	239	4	817	19,073	2	1	11	
	1952	16	240	62	433	144	—	895	19,002	1	1	10	
	1953	8	181	47	14	275	⁴⁾ 14	539	18,255	1	—	5	
	1954	11	150	106	134	226	²⁾ 3	630	17,507	1	—	6	
	1955	11	120	37	139	320	²⁾ 3	630	18,164	1	—	6	
	1956	14	171	161	37	136	²⁾ 1	520	18,488	2	—	8	
	1957	15	306	271	94	204	5	895	28,386	3	—	11	
	1958	34	682	445	41	120	3	1,325	34,948	6	—	15	
1959	33	475	384	224	284	²⁾ 2	1,402	38,536	6	—	17		
1960	1	138	234	48	30	²⁾ 2	453	12,586	5	—	14		
<i>California.</i>	1939	—	2	59	—	—	—	61	1,837	1	—	2	
	1947	—	17	13	3	5	—	38	1,365	1	—	2	
	1948	—	19	16	—	32	—	67	2,350	1	—	2	
	1949	—	10	11	—	28	—	49	1,493	1	—	2	
	1950	—	—	—	—	—	—	—	—	—	—	—	
	1951	—	9	4	—	26	²⁾ 1	40	1,358	1	—	2	
	—	—	—	—	—	—	—	—	—	—	—	—	
	1956	—	3	133	—	9	—	145	5,760	1	—	2	
	1957	—	22	199	1	14	²⁾ 1	237	8,741	1	—	3	
	1958	26	109	115	2	8	²⁾ 1	261	8,518	2	—	4	
1959	5	106	140	39	17	²⁾ 2	309	10,430	2	—	5		
1960	1	138	67	47	16	²⁾ 2	271	8,743	2	—	5		
<i>British Columbia.</i>	1948	—	37	115	2	28	—	182	5,679	1	—	4	
	1949	2	105	76	3	69	—	255	7,841	1	—	3	
	1950	4	150	95	24	40	²⁾ 1	314	9,598	1	—	4	
	1951	9	216	51	5	153	³⁾ 3	437	14,433	1	—	6	
	1952	16	240	61	22	126	—	465	16,220	1	—	5	
	1953	8	181	47	14	275	⁴⁾ 14	539	18,255	1	—	5	
	1954	11	150	106	134	226	²⁾ 3	630	17,507	1	—	6	
	1955	11	120	37	139	320	²⁾ 3	630	18,164	1	—	6	
	1956	14	168	28	37	127	²⁾ 1	375	12,728	1	—	6	
	1957	15	284	49	93	190	²⁾ 4	635	19,241	1	—	6	
1958	8	573	40	39	112	²⁾ 2	774	22,173	1	—	6		
1959	28	369	27	185	260	—	869	22,777	1	—	6		
<i>Alaska.</i>	1937	45	170	104	1	56	—	376	17,668	2	—	6	
	1938	33	65	12	—	63	—	173	9,734	1	—	5	
	1939	5	91	26	—	49	—	171	7,587	1	—	3	
<i>Bonin Island, pelagic.</i>	1947	4	—	1	158	201	—	364 ¹⁾	772	—	3	4	
	1948	1	3	3	105	131	—	243 ¹⁾	786	—	2	5	
	1949	—	—	4	116	85	—	205 ¹⁾	868	—	1	4	
	1950	—	—	—	243	63	—	306	2,747	—	1	4	
	1951	—	—	—	280	60	—	340	3,282	—	1	3	
1952	—	—	1	411	18	—	430	2,782	—	1	5		
<i>Ryukyu Islands (Okinawa)</i>	1957	—	—	23	—	—	—	23	404	1	—	2	
	1958	—	—	290	—	—	—	290	4,257	3	—	5	
	1959	—	—	217	—	7	—	224	5,329	3	—	6	
	1960	—	—	167	1	14	—	182	3,843	3	—	9	

¹⁾ The whale is mainly used for human food. ²⁾ Baird's beaked whales. ³⁾ 1 right-whale, 1 Calif. Grey-whale, 1 Baird's beaked whale. ⁴⁾ 10 grey-whales and 4 Baird's beaked whales.

Table q.—Japan and Korea.

Years.	Species of whales caught.							Oil production.	Expeditions.		
	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.	Total of whales.		Shore stations.	Floating factories.	Catchers.
								Barrels.			
1939	10	241	86	677	1,266	—	2,280	12,784	1) —	—	23
1948	49	176	8	533	823	2) 1	1,590	15,018	20	—	25
1949	14	209	—	759	501	—	1,483	14,179	17	—	25
1950	7	141	5	299	1,429	—	1,701	26,112	16	—	25
1951	47	209	4	419	1,283	—	1,962	29,611	17	—	25
1952	27	231	3	666	1,071	—	1,998	28,635	18	—	25
1953	22	246	9	585	1,186	—	2,048	31,362	18	—	25
1954	16	197	8	646	1,487	—	2,354	33,163	18	—	25
1955	30	354	9	488	1,506	—	2,387	34,421	19	—	25
1956	14	347	14	782	2,125	2) 2	3,284	46,233	20	—	25
1957	5	260	5	478	2,361	—	3,109	44,427	17	—	25
1958	7	222	4	823	2,538	—	3,644	60,966	20	—	25
1959	5	127	4	1,340	2,104	—	3,580	52,648	19	—	24
1960	1	131	2	788	2,107	—	3,029	48,403	19	—	25

1) No information of the number of shore stations in operation. 2) Right-whales.

Table r.—North Pacific Ocean and Bering Sea.

Years.	Species of whales caught.							Oil production.	Shore stations.	Floating factories.	Catchers.
	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.	Total of whales.				
								Barrels.			
1940	34	292	108	3	177	1) 59	673	29,494	—	1	4
1941	40	367	6	7	156	2) 3	579	23,822	—	1	7
—	—	—	—	—	—	—	—	—	—	—	—
1952	55	213	37	14	—	—	319	13,606	—	1	4
1953	91	470	42	98	—	—	701	29,123	—	1	4
1954	145	1,316	136	129	491	—	2,217	103,218	—	2	10
1955	70	1,360	117	21	1,084	—	2,652	111,917	—	2	13
1956	70	1,415	37	48	1,598	—	3,168	146,600	—	2	14
1957	70	1,405	—	166	1,700	—	3,341	148,824	—	2	15
1953	70	1,331	24	330	1,500	—	3,255	145,436	—	2	15
1959	70	1,450	—	32	1,800	—	3,352	160,224	—	2	17
1960	70	1,393	—	203	1,800	—	3,466	150,529	—	2	15

1) No specification. 2) Right-whales.

Table s.—Kamtschatka.

Years.	Species of whales caught.							Oil production.	Shore stations.	Floating factories.	Catchers.
	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.	Total of whales.				
								Barrels.			
1939	—	238	43	—	154	2) 41	476	18,854	—	1	3
1940 ³⁾	—	—	—	—	—	—	—	—	—	—	—
1941	9	254	7	11	194	4) 68	543	18,235	—	1	3
1942	2	203	12	—	215	5) 122	554	14,500	—	1	3
1943	—	132	29	—	216	6) 101	478	15,941	—	1	3
— ³⁾	—	—	—	—	—	—	—	—	—	—	—
1946	2	117	9	—	316	7) 22	466	16,141	—	1	3
1947 ³⁾	—	—	—	—	—	—	—	—	—	—	—
1948	3	229	8	3	574	8) 3	820	28,383	—	1	4
1949	3	64	—	21	774	9) 6	868	33,045	—	1	4
1950	5	92	4	7	587	10) 4	699	27,046	—	1	4
1951	7	90	1	16	765	11) 5	884	32,650	—	1	5
1952	7	234	17	13	731	12) 4	1,006	34,811	—	1	5
1953	11	145	11	26	865	13) 3	1,061	41,493	—	1	5
1954	12	238	21	22	816	14) 3	1,112	36,264	—	1	5
1955	4	79	8	28	996	15) 1	1,116	38,248	—	1	5
1956	7	65	31	16	998	16) 2	1,119	40,571	—	1	6
1957	9	81	50	36	1,174	17) 1	1,351	49,282	—	1	7
1958	—	39	10	19	1,430	18) 2	1,500	60,013	—	1	7
1959	22	132	74	93	1,560	—	1,831	76,029	—	1	9
1960	—	128	57	59	2,223	—	2,472	96,090	—	1	9

1) Grey-whales. 2) 29 grey-whales and 12 without specification. 3) No returns. 4) 2 Minke-whales 57 grey-whales, 5 bottlenoses, and 4 dolphins. 5) 3 Minke-whales, 101 grey-whales, 7 bottlenoses, and 11 dolphins. 6) 93 grey-whales, 1 bottlenose, and 1 dolphin. 7) No specification. 8) 2 bottlenoses and 1 whale-killer. 9) 2 Minke-whales and 4 whale-killers. 10) 1 Minke-whale and 3 bottlenoses. 11) 2 Minke-whales and 3 bottlenoses. 12) 2 Minke-whales and 2 bottlenoses. 13) Bottlenoses. 14) 1 Minke-whale and 2 bottlenoses. 15) 1 Minke-whale and 1 bottlenose.

Table t.—Kuril Islands.

Years.	Species of whales caught.							Oil production.	Expeditions.		
	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.	Total of whales.		Shore stations.	Floating factories.	Catchers.
								Barrels.			
1948	—	26	5	36	390	¹⁾ 3	460	11,219	5	—	10
1949	—	53	7	60	986	²⁾ 41	1,147	26,173	5	—	10
1950	2	106	18	49	1,471	³⁾ 12	1,658	35,003	5	—	12
1951	9	156	8	52	1,462	⁴⁾ 12	1,699	40,062	5	—	13
1952	17	241	9	188	1,641	⁵⁾ 9	2,105	51,458	5	—	12
1953	10	179	6	86	1,521	⁶⁾ 16	1,818	42,586	5	—	13
1954	23	266	8	126	1,192	⁷⁾ 18	1,633	49,394	5	—	13
1955	27	219	23	128	1,494	⁸⁾ 24	1,915	43,979	5	—	13
1956	45	241	10	171	1,693	⁹⁾ 19	2,179	54,249	4	—	15
1957	44	173	2	108	1,821	¹⁰⁾ 14	2,162	52,415	4	—	14
1958	14	328	4	336	2,184	¹¹⁾ 9	2,875	62,478	4 ?	—	22
1959	19	223	5	131	1,878	¹²⁾ 9	2,265	52,143	4 ?	—	19
1960	14	265	3	140	1,487	¹³⁾ 22	1,931	45,032	4 ?	—	13

¹⁾ 1 Minke-whale and 2 whale-killers. ²⁾ 6 Minke-whales, 11 bottlenoses, and 24 whale-killers. ³⁾ 3 Minke-whales and 9 bottlenoses. ⁴⁾ 7 Minke-whales and 5 bottlenoses. ⁵⁾ 3 Minke-whales and 6 bottlenoses. ⁶⁾ 8 Minke-whales and 8 bottlenoses. ⁷⁾ 9 Minke-whales and 9 bottlenoses. ⁸⁾ 9 Minke-whales, 5 bottlenoses, and 10 Southern Right-whales. ⁹⁾ 10 Minke-whales and 9 bottlenoses. ¹⁰⁾ 6 Minke-whales, 8 bottlenoses. ¹¹⁾ 4 Minke-whales and 5 bottlenoses. ¹²⁾ 1 Minke-whale and 8 bottlenoses. ¹³⁾ 4 Minke-whales and 18 bottlenoses.

Table u.—Brazil.

Years.	Species of whales caught.							Oil production.	Expeditions.		
	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.	Total of whales.		Shore stations.	Floating factories.	Catchers.
								Barrels.			
1948	1	—	21	10	—	¹⁾ 4	36	1,060	2	—	1
1949	—	—	15	18	—	²⁾ 5	38	1,251	2	—	2
1950	—	—	24	98	—	¹⁾ 6	128	2,132	2	—	2
1951	—	—	28	151	—	—	179	2,925	1	—	2
1952	—	—	10	157	1	—	168	2,171	2	—	2
1953	—	—	8	161	1	³⁾ 5	175	2,837	2	—	2
1954	—	—	18	183	1	—	202	3,636	1	—	2
1955	—	—	9	200	1	⁴⁾ 3	213	3,530	2	—	2
1956	—	1	14	196	3	¹⁾ 3	217	3,596	2	—	3
1957	—	—	—	215	2	¹⁾ 5	122	1,300	2	—	3
1958	—	1	5	118	4	—	128	2,524	1	—	2
1959	—	—	8	294	11	⁵⁾ 2	315	4,736	1	—	3
1960	—	21	13	750	29	—	813	10,800	2	—	5

¹⁾ No specification. ²⁾ 1 Minke-whale, 4 not specified. ³⁾ Right-whales. ⁴⁾ 1 right-whale, 2 Minke-whales. ⁵⁾ Minke-whales.

Table v.—Peru.

								Barrels.			
1947	—	1	2	—	2,887	—	2,890	105,986	—	2	15
1948	1	2	—	1	2,497	—	2,501	88,205	—	1	7
—	—	—	—	—	—	—	—	—	—	—	—
1951	4	21	23	1	6,365	—	6,414	197,524	1	4	51
1952	7	14	20	17	37	—	95	1,941	1	—	1
1953	10	28	6	36	1,260	—	1,340	22,108	3	—	6
1954	8	30	1	2	4,134	—	4,175	104,168	3	1	19
1955	8	7	2	1	1,869	—	1,887	31,335	2	—	6
1956	—	1	7	—	2,019	—	2,027	32,604	2	—	6
1957	—	—	—	—	2,381	—	2,381	45,745	3	—	8
1958	—	—	—	—	2,554	—	2,554	56,315	3	—	8
1959	—	—	—	1	3,399	—	3,400	74,785	3	—	8
1960	—	—	—	—	3,451	—	3,451	75,426	3	—	8

Table w.—Chile.

Years.	Species of whales caught.							Oil production.	Expeditions.		
	Blue.	Fin.	Hump-back.	Sci.	Sperm.	Others.	Total of whales.		Shore stations-	Floating factories-	Catchers.
								Barrels.			
1948	85	289	5	6	731	—	1,116	28,522	2	—	7
1949	35	219	6	—	731	—	991	23,382	2	—	7
1950	45	274	5	—	769	—	1,093	30,231	2	—	7
1951	77	279	3	2	733	—	1,094	30,993	2	—	10
1952	143	424	7	10	790	—	1,374	35,406	2	—	10
1953	172	283	21	24	698	—	1,198	30,169	2	—	8
1954	70	434	—	26	798	—	1,328	27,885	2	—	12
1955	150	359	5	32	746	¹⁾ 6	1,298	36,108	2	—	13
1956	209	202	3	48	1,171	—	1,633	41,751	2	—	12
1957	100	69	5	39	2,299	—	2,512	44,688	2	—	13
1958	166	73	—	16	2,062	—	2,317	48,301	3	—	13
1959	80	70	3	17	2,062	¹⁾ 1	2,233	44,851	3	—	14
1960	131	52	2	13	1,886	—	2,084	41,443	3	—	16

¹⁾ Right-whales.Table x.—South Pacific Ocean. (North of 40° South Lat.)¹⁾

1957	—	—	—	—	48	—	48	1,712	—	²⁾ (1)	²⁾ —
------	---	---	---	---	----	---	----	-------	---	-------------------	-----------------

¹⁾ Catch by fl. factory on voyage to the Antarctic grounds. ²⁾ Incl. in the Antarctic statistics.Table y.—Indian Ocean. (North of 40° South Lat.)¹⁾

1957	—	—	—	—	23	—	23	742	—	²⁾ (2)	²⁾ —
------	---	---	---	---	----	---	----	-----	---	-------------------	-----------------

¹⁾ Catch by fl. factories on voyage to the Antarctic grounds. ²⁾ Incl. in the Antarctic statistics.

Table z.—Australia.

								Barrels.			
1948	—	—	4	—	—	—	4	65	1	—	1
1949	—	—	193	—	—	—	193	5,738	2	—	2
1950	—	—	388	—	—	—	388	16,494	2	—	4
1951	—	—	1,224	—	—	—	1,224	56,090	2	—	6
1952	—	—	1,787	—	—	—	1,787	91,830	4	—	10
1953	—	1	2,000	—	—	—	2,001	102,191	4	—	9
1954	1	—	2,038	—	—	—	2,039	100,515	5	—	9
1955	—	—	1,846	—	7	¹⁾ 1	1,854	96,377	5	—	9
1956	—	1	1,989	—	61	—	2,051	104,607	5	—	11
1957	—	—	1,961	—	139	—	2,100	108,069	5	—	12
1958	2	—	1,807	—	283	²⁾ 3	2,095	107,845	5	—	13
1959	12	1	1,660	—	138	—	1,811	94,311	5	—	13
1960	2	—	1,525	—	282	—	1,809	89,366	5	—	14

¹⁾ Minke-whale. ²⁾ Bryde-whales.Table z¹.—New Zealand.

								Barrels.			
1948	—	—	92	—	—	—	92	3,864	1	—	3
1949	—	—	141	—	—	—	141	5,838	1	—	3
1950	—	—	79	—	—	—	79	2,844	1	—	3
1951	—	—	111	—	—	—	111	4,482	1	—	3
1952	—	—	121	1	—	—	122	4,800	1	—	3
1953	—	—	109	—	—	—	109	4,560	1	—	3
1954	—	—	180	—	—	—	180	8,820	1	—	3
1955	—	—	112	—	—	—	112	5,020	1	—	3
1956	—	—	143	14	2	—	159	6,325	2	—	4
1957	—	—	184	2	—	—	186	8,640	2	—	4
1953	—	—	183	—	—	—	183	8,235	1	—	3
1959	—	—	318	2	—	—	320	16,338	2	—	6
1960	—	—	361	—	—	—	361	15,184	2	—	6

Table 2.—Production of by-products in the Antarctic and on other whaling grounds 1955/56—1959/60.

Year Grounds	By-products	Whale meat-meal, bone-meal, grax-meal, guano,	Whale liver	Liver- oil, vitamin oil	Liver- meal	Whale meat, blubber for food, ventral grooves	Whale solubles	Other by- products
		Long tons	L. tons	L. tons	L. tons	L. tons	L. tons	L. tons
1955-56 Total		69,442	1,280	354	162	87,936	11,383	7,157
1956-57 „		71,201	1,335	369	156	113,804	9,743	10,021
1957-58 „		78,353	1,137	337	113	128,385	12,792	18,786
<i>1958-59.</i>								
Antarctic		41,284	645	187	138	78,658	2,153	21,280
Africa:—Natal		5,621	—	17	—	60	1,051	347
Cape Province		2,877	—	—	—	80	—	317
Gabon ²⁾		322	—	—	—	—	—	—
Brazil		1,372	—	—	—	450	—	—
North Atl. and Arctic								
Azores		351	—	—	—	—	—	—
Madeira		120	—	—	—	—	—	—
Spain		444	—	—	—	225	—	—
Norway		576	47	—	—	1,812	—	6
Iceland		1,504	—	—	—	2,015	—	—
Newfoundland		29	—	—	—	17	—	—
Pacific North:—								
California		1,680	—	—	—	1,662	—	—
British Columbia		3,624	—	—	—	4,862	—	—
Bering Sea		97	—	103	—	18,081	—	4,543
Kamtschatka		—	232	—	—	—	—	251
Kuril Islands		213	247	—	—	495	—	1,533
Japan		6,634	—	—	—	15,715	—	1,995
Ryukyu Islands		257	37	1	—	1,757	—	930
Peru		3,744	—	—	—	—	—	—
Chile		2,068	—	—	—	38	—	—
Australia		4,858	—	—	—	652	2,457	—
New Zealand		120	10	—	—	440	—	—
Total		77,795	1,218	308	138	127,019	5,661	31,202
<i>1959-60.</i>								
Antarctic		53,024	1,316	131	—	95,997	1,038	22,651
Africa:—Natal		6,077	—	16	—	—	2,583	403
Cape province		3,144	—	—	—	963	—	100
Brazil, Paraiba		382	5	—	—	1,260	—	—
Cabo Frio		383	—	1	—	1,349	—	6
North Atl. and Arctic								
Azores ³⁾		—	—	—	—	—	—	—
Madeira		132	—	—	—	—	—	—
Spain		552	—	—	—	313	—	—
Norway		473	27	—	—	1,428	—	—
Iceland		1,729	16	—	—	1,834	—	—
Newfoundland		—	—	—	—	7	—	—
Pacific North:—								
California		1,328	—	—	—	1,790	—	—
Bering Sea		—	—	104	—	21,189	—	5,560
Kamtschatka		—	264	—	—	39	—	36
Kuril Islands		1,019	248	—	—	1,467	—	458
Japan		4,805	—	—	—	12,448	—	2,047
Ryukyu Islands		196	14	2	—	2,297	—	48
Peru		5,045	—	—	—	—	—	—
Chile		1,080	—	—	—	7	—	—
Australia		4,454	—	—	—	445	2,591	—
New Zealand		345	20	—	—	601	—	—
Total		84,168	1,910	254	—	143,434	6,212	31,309

¹ In addition 650,000 M.U. (Vitamin oil) were produced. ² In earlier publications French Congo. ³ No information received.

**Table Z³.—Catch of small whales in the years 1955/56—1959/60,
by species and whaling grounds.**

Years ¹⁾ Grounds	Species of whales caught						
	Minke- whales	Bottle- noses	Pilot- whales	Killer- whales	White- whales	Baird's beaked whales	Others or unspecified whales
<i>1955—56.</i>							
Norway	3,658	267	1	40	446	—	—
Faroe Islands ²⁾
Newfoundland	57	—	9,799	—	—	—	—
Gulf of St. Lawrence..	—	—	—	—	12	—	—
Hudson Bay	—	—	—	—	422	—	—
British Columbia	—	—	—	—	—	1	—
Japan	532	—	297	38	—	297	46
U.S.S.R.	11	10	—	73	—	—	—
Antarctic	42	—	—	33	—	—	—
Total	4,300	277	10,097	184	880	298	46
<i>1956—57.</i>							
Norway	3,644	163	80	48	294	—	—
Faroe Islands .....	..	..	..	..	..	..	..
Newfoundland	37	—	7,797	—	—	—	—
Gulf of St. Lawrence..	—	—	—	—	1	—	—
Hudson Bay	—	—	—	—	517	—	—
British Columbia	—	—	—	—	—	4	—
Japan	423	—	174	78	—	186	37
U.S.S.R.	6	9	—	30	—	—	—
Antarctic	46	—	—	54	—	—	—
Total	4,156	172	8,051	210	182	190	37
<i>1957—58.</i>							
Norway	4,341	145	216	39	50	—	—
Faroe Islands .....	..	..	..	..	..	..	..
Newfoundland	42	—	789	—	—	—	—
Gulf of St. Lawrence..	—	—	—	—	2	—	—
Hudson Bay	—	—	—	—	708	—	—
British Columbia	—	—	—	—	—	2	—
Japan	512	—	197	73	—	229	178
U.S.S.R.	4	7	—	21	—	—	—
Antarctic	493	—	—	75	—	—	—
Total	5,392	152	1,202	208	760	231	178
<i>1958—59.</i>							
Norway	3,091	94	224	69	—	—	—
Faroe Islands	—	—	1,422	—	—	—	—
Greenland	19	—	—	—	—	—	—
Newfoundland	18	—	1,725	—	—	—	—
Hudson Bay	—	—	—	—	268	—	—
Japan	280	—	144	36	—	186	391
U.S.S.R.	1	8	—	36	—	—	—
Antarctic	103	—	—	110	—	—	—
Total	3,512	102	3,515	251	268	186	391
<i>1959—60.</i>							
Norway	3,429	193	331	82	—	—	—
Faroe Islands	22	..	1,680	..	..	..	40
Greenland	21	..	..	..	..	..	..
Newfoundland	11	—	1,957	—	—	—	—
Hudson Bay	—	—	—	—	385	—	—
Japan	253	—	168	48	—	147	178
U.S.S.R.	4	18	—	45	—	—	—
Antarctic	204	—	—	55	—	—	—
Total	3,944	211	4,136	230	385	147	218

¹ 1955—56=Antarctic season 1955—56 and summer 1956, a. s. o. ² No information received.

Table Z⁴.—Catch of Minke-whales (*Balaenoptera Acutorostrata*) 1955—1960, by months and whaling grounds.

Grounds	Months													Total
	Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Des.	
Norway:—														
Total	1955	—	—	19	139	806	2,034	568	706	56	—	—	—	4,328
	1956	—	—	16	213	941	1,294	359	589	246	—	—	—	3,658
	1957	—	—	17	145	1,035	1,191	441	722	93	—	—	—	3,644
	1958	—	—	38	200	936	1,824	494	743	106	—	—	—	4,341
	1959	—	—	4	208	803	1,161	353	486	76	—	—	—	3,091
	1960	—	—	21	132	690	1,458	444	574	110	—	—	—	3,429
Of which:														
Coastal districts ¹⁾	1955	—	—	19	116	384	743	555	658	56	—	—	—	2,531
	1956	—	—	16	132	530	456	349	511	239	—	—	—	2,233
	1957	—	—	17	69	278	419	419	674	91	—	—	—	1,967
	1958	—	—	35	62	234	530	438	695	104	—	—	—	2,098
	1959	—	—	—	—	—	—	—	—	—	—	—	—	1,271
	1960	—	—	—	—	—	—	—	—	—	—	—	—	1,428
Barents Sea, Spitzbergen and Bear Island ²⁾	1955	—	—	—	23	371	1,219	—	—	—	—	—	—	1,613
	1956	—	—	—	39	383	816	—	—	—	—	—	—	1,238
	1957	—	—	—	50	613	714	—	—	—	—	—	—	1,377
	1958	—	—	—	130	539	1,109	43	12	—	—	—	—	1,833
	1959	—	—	—	—	—	—	—	—	—	—	—	—	1,355
	1960	—	—	—	—	—	—	—	—	—	—	—	—	1,503
Shetland ¹⁾	1955	—	—	—	—	51	72	13	48	—	—	—	—	184
	1956	—	—	—	42	28	22	10	78	7	—	—	—	187
	1957	—	—	—	26	144	58	22	48	2	—	—	—	300
	1958	—	—	3	8	163	185	13	36	2	—	—	—	410
	1959	—	—	—	—	—	—	—	—	—	—	—	—	465
	1960	—	—	—	—	—	—	—	—	—	—	—	—	498
Denmark:—														
Faroe Islands....	1960	—	—	—	22	—	—	—	—	—	—	—	—	22
Greenland	1959	—	—	—	—	—	6	7	2	3	1	—	—	19
	1960	—	—	—	—	6	7	1	—	1	1	1	—	³⁾ 21
United Kingdom:—														
Antarctic	1955/56	—	—	—	—	—	—	—	—	—	—	—	—	1
	1958/59	—	—	—	—	—	—	—	—	—	—	—	—	1
	1959/60	—	—	—	—	—	—	—	—	—	—	—	—	1
Canada:—														
Newfoundland ..	1955	—	—	—	—	—	10	3	—	—	—	—	—	13
	1956	—	—	—	—	3	37	16	1	—	—	—	—	57
	1957	—	—	—	—	—	15	22	—	—	—	—	—	37
	1958	—	—	—	—	2	30	8	—	2	—	—	—	42
	1959	—	—	—	—	2	5	10	1	—	—	—	—	18
	1960	—	—	—	—	—	3	6	1	1	—	—	—	11
Japan:—														
Coastal districts..	1955	1	3	15	77	137	107	56	17	9	5	—	—	427
	1956	1	3	17	52	191	112	76	35	30	15	—	—	532
	1957	4	9	25	102	124	76	38	11	21	13	—	—	423
	1958	2	6	18	74	214	135	26	11	22	4	—	—	512
	1959	—	2	12	33	82	42	59	36	9	5	—	—	280
	1960	—	—	13	69	77	44	33	10	6	1	—	—	253
U.S.S.R.:—														
Kamtchatka.....	1956	—	—	—	—	—	—	—	1	—	—	—	—	1
Kuril Islands....	1955	—	—	—	—	—	—	5	3	1	—	—	—	9
	1956	—	—	—	—	—	2	5	1	1	1	—	—	10
	1957	—	—	—	—	1	1	3	—	1	—	—	—	6
	1958	—	—	—	—	—	1	1	1	—	1	—	—	4
	1959	—	—	—	—	—	—	—	1	—	—	—	—	1
	1960	—	—	—	—	1	—	1	2	—	—	—	—	4

¹ Catching period permitted: March 15th—June 30th and July 22th—September 14th, both days included.

² Catching period permitted: March 15th—June 30th, both days included.

³ Incl. 4 Minke-whales without specification for months.

Table Z⁴. (cont.)

Grounds	Year	Months												Total
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
Antarctic	1954/55	-	-	-	-	-	-	-	-	-	-	-	-	-
	1955/56	-	-	7	-	-	-	-	-	-	-	-	34	41
	1956/57	-	-	46	-	-	-	-	-	-	-	-	-	46
	1957/58	4	-	481	-	-	-	-	-	-	-	-	8	493
	1958/59	9	-	-	-	-	-	-	-	-	-	38	55	102
	1959/60	-	-	-	-	-	-	-	-	-	-	63	140	203

Table Z⁵.—Catch of Bottlenoses (*Hyperoodon Rostrata*) 1955—1960, by months and whaling grounds.

Grounds	Year	Months												Total
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
Norway:—														
Total	1955	-	-	-	1	89	31	1	-	2	-	-	-	124
	1956	-	-	1	39	176	29	1	-	15	6	-	-	267
	1957	-	-	-	41	65	32	24	1	-	-	-	-	163
	1958	-	-	-	5	81	32	11	2	6	8	-	-	145
	1959	-	-	-	8	29	49	2	1	1	4	-	-	94
	1960	-	-	-	30	110	51	-	2	-	-	-	-	193
Of which:														
Coastal districts ¹⁾ . .	1955	-	-	-	1	7	31	-	-	2	-	-	-	41
	1956	-	-	1	2	1	24	-	-	15	6	-	-	49
	1957	-	-	-	11	31	4	-	1	-	-	-	-	47
	1958	-	-	-	-	5	16	-	1	6	8	-	-	36
	1959	-	-	-	-	-	-	-	-	-	-	-	-	24
	1960	-	-	-	-	-	-	-	-	-	-	-	-	43
Barents Sea, Spitzbergen and Bear Island ²⁾	1955	-	-	-	-	82	-	-	-	-	-	-	-	82
	1956	-	-	-	37	175	5	-	-	-	-	-	-	217
	1957	-	-	-	30	34	28	-	-	-	-	-	-	92
	1958	-	-	-	5	76	16	-	-	-	-	-	-	97
	1959	-	-	-	-	-	-	-	-	-	-	-	-	69
	1960	-	-	-	-	-	-	-	-	-	-	-	-	150
Shetland ¹⁾	1955	-	-	-	-	-	-	1	-	-	-	-	-	1
	1956	-	-	-	-	-	-	1	-	-	-	-	-	1
	1957	-	-	-	-	-	-	24	-	-	-	-	-	24
	1958	-	-	-	-	-	-	11	1	-	-	-	-	12
	1959	-	-	-	-	-	-	-	-	-	-	-	-	1
	1960	-	-	-	-	-	-	-	-	-	-	-	-	-
U.S.S.R.:—														
Kamchatka	1955	-	-	-	-	-	-	1	-	-	-	-	-	1
	1956	-	-	-	-	-	-	-	1	-	-	-	-	1
	1957	-	-	-	-	1	-	-	-	-	-	-	-	1
	1958	-	-	-	-	-	1	-	-	1	-	-	-	2
	1959	-	-	-	-	-	-	-	-	-	-	-	-	-
Kuril Islands	1955	-	-	-	-	-	2	2	-	-	1	-	-	5
	1956	-	-	-	-	-	1	1	2	4	1	-	-	9
	1957	-	-	-	-	2	3	1	1	1	-	-	-	8
	1958	-	-	-	-	1	2	-	2	-	-	-	-	5
	1959	-	-	-	1	1	3	-	2	1	-	-	-	8
	1960	-	-	-	-	-	4	-	1	1	12	-	-	18

¹⁾, ²⁾ See notes 1 and 2, page 34.

**Table. Z⁶.—Catch of Pilot-whales (*Globicephala Melaena*) 1955—1960,
by months and whaling grounds.**

Grounds	Year	Months												Total
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
Norway:—														
Total	1955	—	—	—	—	—	—	—	13	—	—	—	—	13
	1956	—	—	—	—	—	—	—	1	—	—	—	—	1
	1957	—	—	—	—	6	—	4	52	18	—	—	—	80
	1958	—	—	2	—	—	—	64	150	—	—	—	—	216
	1959	—	—	—	—	—	2	19	191	12	—	—	—	224
	1960	—	—	—	—	22	—	37	266	6	—	—	—	331
Of which:														
Coastal districts ¹⁾	1955	—	—	—	—	—	—	—	7	—	—	—	—	7
	1956	—	—	—	—	—	—	—	1	—	—	—	—	1
	1957	—	—	—	—	3	—	3	14	18	—	—	—	38
	1958	—	—	2	—	—	—	—	32	—	—	—	—	34
	1959	—	—	—	—	—	—	—	—	—	—	—	—	56
	1960	—	—	—	—	—	—	—	—	—	—	—	—	52
Shetland ¹⁾	1955	—	—	—	—	—	—	—	6	—	—	—	—	6
	1957	—	—	—	—	3	—	1	38	—	—	—	—	42
	1958	—	—	—	—	—	—	64	118	—	—	—	—	182
	1959	—	—	—	—	—	—	—	—	—	—	—	—	168
	1960	—	—	—	—	—	—	—	—	—	—	—	—	279
Denmark:—														
Faroe Islands .	1959	129	—	—	—	123	355	381	434	—	—	—	—	1,422
	1960	—	—	—	90	—	367	710	306	207	—	—	—	1,680
Canada:—														
Newfoundland	1955	—	—	—	—	—	—	620	885	3,150	1,957	—	—	6,612
	1956	—	—	—	—	—	—	1,240	2,379	2,769	2,944	467	—	9,799
	1957	—	—	—	—	—	—	382	5,110	1,985	320	—	—	7,797
	1958	—	—	—	—	—	—	—	516	158	115	—	—	789
	1959	—	—	—	—	—	—	263	390	815	157	100	—	1,725
	1960	—	—	—	—	—	141	107	807	902	—	—	—	1,957
Japan:—														
Coastal	1955	—	1	—	4	15	10	3	2	20	1	5	—	61
districts	1956	1	1	2	2	32	40	16	34	30	71	17	51	297
	1957	13	1	13	5	12	45	20	19	5	13	15	13	174
	1958	4	1	—	8	36	57	23	13	9	13	21	12	197
	1959	—	1	13	19	18	52	7	2	4	10	15	3	144
	1960	5	8	9	13	13	36	14	22	9	17	10	12	168

¹ See note 1 page 34.

Table Z⁷.—Catch of Killer-whales (*Orcinus orca*) 1955—1960, by months and whaling grounds.

Grounds	Year	Months												Total
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
Norway:—														
Total	1955	—	—	—	3	5	8	—	10	—	—	—	—	26
	1956	—	—	—	7	8	9	4	4	8	—	—	—	40
	1957	—	—	—	14	11	10	—	12	1	—	—	—	48
	1958	—	—	7	11	16	4	—	—	1	—	—	—	39
	1959	—	—	—	9	14	17	—	25	4	—	—	—	69
	1960	—	—	3	18	23	10	5	17	6	—	—	—	82
Of which:														
Coastal districts ¹⁾ ...	1955	—	—	—	3	5	7	—	2	—	—	—	—	17
	1956	—	—	—	5	3	7	—	1	2	—	—	—	18
	1957	—	—	—	14	10	7	—	2	—	—	—	—	33
	1958	—	—	7	9	8	3	—	—	1	—	—	—	28
	1959	—	—	—	—	—	—	—	—	—	—	—	—	13
	1960	—	—	—	—	—	—	—	—	—	—	—	—	40
Barents Sea, Spitzbergen and Bear Island ²⁾	1955	—	—	—	—	—	1	—	1	—	—	—	—	2
	1956	—	—	—	2	5	2	—	—	—	—	—	—	9
	1957	—	—	—	—	—	2	—	—	—	—	—	—	2
	1958	—	—	—	2	8	1	—	—	—	—	—	—	11
	1959	—	—	—	—	—	—	—	—	—	—	—	—	24
	1960	—	—	—	—	—	—	—	—	—	—	—	—	14
Shetland ¹⁾	1955	—	—	—	—	—	—	—	7	—	—	—	—	7
	1956	—	—	—	—	—	—	4	3	6	—	—	—	13
	1957	—	—	—	—	1	1	—	10	1	—	—	—	13
	1959	—	—	—	—	—	—	—	—	—	—	—	—	32
	1960	—	—	—	—	—	—	—	—	—	—	—	—	28
Canada:—														
Newfoundland	1955	—	—	—	—	—	1	—	—	—	—	—	—	1
Japan:														
Coastal districts ..	1955	—	—	—	9	21	17	7	1	1	8	18	3	85
	1956	—	1	3	1	7	4	2	5	6	6	3	—	38
	1957	—	—	2	5	4	10	21	5	9	11	8	3	78
	1958	—	7	2	—	8	25	3	5	4	7	8	4	73
	1959	—	3	—	4	1	3	2	3	8	6	6	—	36
	1960	2	—	—	2	2	4	7	6	10	3	10	2	48
U.S.S.R.:—														
Kamtschatka.....	1955	—	—	—	—	—	—	2	—	—	2	—	—	4
	1956	—	—	—	—	15	7	2	1	1	—	—	—	26
	1957	—	—	—	—	—	—	—	3	—	—	—	—	3
	1958	—	—	—	—	—	—	4	3	—	—	—	—	7
	1959	—	—	—	—	—	—	—	—	—	—	—	—	—
	1960	—	—	—	—	—	—	8	—	—	—	—	—	8
Kuril Islands	1955	—	—	—	—	4	—	4	3	—	—	—	—	11
	1956	—	—	—	—	3	18	16	2	8	—	—	—	47
	1957	—	—	—	—	3	9	7	3	5	—	—	—	27
	1958	—	—	—	—	—	5	5	5	—	3	—	—	18
	1959	—	—	—	—	25	8	—	3	—	—	—	—	36
	1960	—	—	—	2	3	—	15	1	3	21	—	—	45
Antarctic	1954-55	1	—	—	—	—	—	—	—	—	—	7	3	11
	1955-56	2	—	16	—	—	—	—	—	—	—	8	7	33
	1956-57	6	—	—	—	—	—	—	—	—	—	—	48	54
	1957-58	4	—	—	—	—	—	—	—	—	—	16	55	75
	1958-59	—	—	—	—	—	—	—	—	—	—	36	74	110
	1959-60	—	—	—	—	—	—	—	—	—	—	25	30	55

¹⁾, ²⁾ See notes 1 and 2, page 34.

Table Z⁸.—Catch of White-whales, (*Delphinapterus leucas*) 1955—1960, by months and whaling grounds.

Grounds	Year	Months												Total
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
Norway:—														
West Spitzbergen ¹ .	1955	—	—	—	—	97	—	—	—	—	—	—	—	97
	1956	—	—	—	—	446	—	—	—	—	—	—	—	446
	1957	—	—	—	—	294	—	—	—	—	—	—	—	294
	1958	—	—	—	—	50	—	—	—	—	—	—	—	50
Canada:—														
Hudson Bay	1955	—	—	—	—	—	—	328	156	—	—	—	—	484
	1956	—	—	—	—	—	19	80	171	152	—	—	—	422
	1957	—	—	—	—	—	26	234	130	127	—	—	—	517
	1958	—	—	—	—	—	—	—	338	370	—	—	—	708
	1959	—	—	—	—	—	—	—	—	—	—	—	—	268
	1960	—	—	—	—	—	—	—	—	—	—	—	—	385
Gulf of														
St. Lawrence	1956	—	—	—	—	—	—	—	—	—	—	—	—	12
	1957	—	—	—	—	—	—	—	—	—	—	—	—	1
	1958	—	—	—	—	—	—	—	—	—	—	—	—	2

¹ See note 2, page 34.

Table Z⁹.—Catch of Baird's beaked whales (*Berardius bairdii*) 1955—1960, by months and whaling grounds.

Grounds	Year	Months												Total
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
Canada:—														
British Columbia . .	1955	—	—	—	—	—	1	—	2	—	—	—	—	3
	1956	—	—	—	—	1	—	—	—	—	—	—	—	1
	1957	—	—	—	—	2	—	—	2	—	—	—	—	4
	1958	—	—	—	—	—	—	—	2	—	—	—	—	2
Japan:—														
Coastal districts . . .	1955	—	—	—	4	1	9	98	117	17	6	5	1	258
	1956	—	—	—	—	3	7	117	124	30	12	4	—	297
	1957	—	—	—	—	3	13	72	75	11	2	10	—	186
	1958	—	—	—	—	—	5	81	110	25	8	—	—	229
	1959	—	—	—	1	1	11	66	51	32	20	4	—	186
	1960	—	—	—	—	—	9	49	33	33	13	9	1	147

Table Z¹⁰.—Catch of others or unspecified small whales 1955—1960, by months and whaling grounds.

Grounds	Year	Months												Total
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
Denmark:—														
Faroe Islands	1960	—	—	—	—	—	—	40	—	—	—	—	—	40
Japan:—														
Coastal districts . . .	1955	—	1	—	—	7	19	3	7	1	—	—	2	40
	1956	1	—	—	—	10	12	4	7	9	—	3	—	46
	1957	—	—	—	2	8	3	4	15	3	1	1	—	37
	1958	56	28	3	6	6	3	9	16	2	3	1	45	178
	1959	87	13	74	86	19	5	53	13	10	4	8	19	391
	1960	84	5	7	7	5	2	14	21	20	8	1	4	178

TABLES

Antarctic season 1959/60 and summer season 1960.

Table No. 1.—Whaling in 1959/60 and summer 1960.

Geographical areas.	Species of whales caught.							Oil production.	Expeditions.		
	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.	Total of whales.		Shore stations.	Floating factories.	Catchers.
								Barrels ⁸⁾			
South Georgia	9	1,160	—	1,075	89	—	2,333	97,546	3	—	21
Antarctic, pelagic whaling	1,230	26,415	1,338	3,234	4,138	¹⁾ 204	36,559	2,050,892	—	20	220
Africa:—											
Natal	6	738	36	183	1,024	—	1,987	68,736	1	—	11
Cape Province ...	1	255	4	498	769	²⁾ 9	1,536	34,050	1	—	6
South Atlantic, pelagic whaling..	—	—	—	—	34	—	34	989	—	³⁾ —	³⁾ —
Brazil:—											
Paraiba	—	21	13	750	29	—	813	10,800	2	—	5
North Atlantic and Arctic:—											
Azores ⁷⁾	—	—	—	—	338	—	338	9,294	—	—	—
Madeira	—	—	—	—	168	—	168	3,813	—	—	—
Spain	—	—	—	—	122	⁴⁾ 75	197	5,263	2	—	3
Norway	—	128	—	2	84	—	214	8,625	3	—	9
Iceland	—	160	—	42	177	—	379	17,536	1	—	4
Newfoundland...	—	1	—	—	1	—	2	27	—	—	—
Pacific North:—											
California	1	138	67	47	16	⁵⁾ 2	271	8,743	2	—	5
N. Pacific Ocean and Bering Sea, pelagic whaling..	70	1,393	—	203	1,800	—	3,466	150,529	—	2	15
Kamtchatka, pelagic whaling	—	128	57	59	2,228	—	2,472	96,090	—	1	9
Kuril Islands....	14	265	3	140	1,487	⁶⁾ 22	1,931	45,032	4(?)	—	13
Japan	1	131	2	788	2,107	—	3,029	48,403	19	—	25
Ryukyu Islands ..	—	—	167	1	14	—	182	3,843	3	—	9
Peru	—	—	—	—	3,451	—	3,451	75,426	3	—	8
Chile	131	52	2	13	1,886	—	2,084	41,443	3	—	16
Australia	2	—	1,525	—	282	—	1,809	89,366	5	—	14
New Zealand	—	—	361	—	—	—	361	15,184	2	—	6
Total	1,465	30,985	3,575	7,035	20,244	312	63,616	2,881,630	54	23	399

¹⁾ Minke-whales. In addition 55 killer-whales. ²⁾ Bryde-whales. ³⁾ Floating factory on voyage to and from the Antarctic whaling grounds. ⁴⁾ Baleen whales, not specified. ⁵⁾ Baird's beaked whales. ⁶⁾ 4 Minke-whales and 18 bottlenoses. ⁷⁾ Excluding the catch from San Miguel and San Jorge. ⁸⁾ Barrel=170 kg. (Barrel=abt. $\frac{1}{6}$ long ton, 1 long ton=1,016 kg.)

Table No. 2.—Norwegian whaling in 1959/60 and summer 1960.

Geographical areas.	Species of whales caught.							Oil production.	Expeditions.		
	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.	Total of whales.		Shore stations.	Floating factories.	Catchers.
Antarctic, pelagic whaling	115	8,696	137	301	1,407	—	10,656	655,033	—	8	70
South Georgia	—	318	—	333	17	—	668	26,297	1	—	7
South Atlantic, pelagic whaling . .	—	—	—	—	34	—	34	989	—	¹⁾ —	¹⁾ —
Norway	—	128	—	2	84	—	214	8,625	3	—	9
Total	115	9,142	137	636	1,542	—	11,572	690,944	4	8	86

¹⁾ Floating factory on voyage to and from the Antarctic whaling grounds.**Table No. 3.—Whaling of United Kingdom in 1959/60 and summer 1960.**

Geographical areas.	Species of whales caught.							Oil production.	Expeditions.		
	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.	Total of whales.		Shore stations.	Floating factories.	Catchers.
Antarctic, pelagic whaling	104	3,364	123	392	448	¹⁾ 1	4,432	257,368	—	3	31
South Georgia	3	375	—	316	39	—	733	30,749	1	—	7
Total	107	3,739	123	708	487	1	5,165	288,117	1	3	38

¹⁾ Minke-whale.**Table No. 4.—Whaling of Japan in 1959/60 and summer 1960.**

Geographical areas.	Species of whales caught.							Oil production.	Expeditions.		
	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.	Total of whales.		Shore stations.	Floating factories.	Catchers.
Antarctic, pelagic whaling	431	8,897	280	1,351	1,400	—	12,359	617,141	—	6	69
North Pacific Ocean and Bering Sea, pelagic whaling . .	70	1,393	—	203	1,800	—	3,466	150,529	—	2	15
Japan	1	131	2	788	2,107	—	3,029	48,403	19	—	25
Total	502	10,421	282	2,342	5,307	—	18,854	816,073	19	8	109

Table No. 5.—Whaling of U.S.S.R. in 1959/60 and summer 1960.

Geographical areas.	Species of whales caught.							Oil production.	Expeditions.		
	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.	Total of whales.		Shore stations.	Floating factories.	Catchers.
Antarctic, pelagic whaling	526	3,554	720	1,188	840	¹⁾ 203	7,031	378,300	—	2	37
Kamtchatka, pelagic whaling . .	—	128	57	59	2,228	—	2,472	96,090	—	1	9
Kuril Islands	14	265	3	140	1,487	²⁾ 22	1,931	45,032	4(?)	—	13
Total	540	3,947	780	1,387	4,555	225	11,434	519,422	4	3	59

¹⁾ Minke-whales. ²⁾ 4 Minke-whales and 18 bottlenoses.

Table No. 6.—Whaling results for the various countries in 1959/60 and summer 1960.

Countries.	Species of whales caught.							Oil production. Barrels ¹⁾	Expeditions.		
	Blue.	Fin.	Hump-back.	Sci.	Sperm.	Others.	Total of whales.		Shore stations.	Floating factories.	Catchers.
Japan	502	10,421	282	2,342	5,307	—	18,854	816,073	19	8	109
Norway	115	9,142	137	636	1,542	—	11,572	690,944	4	8	86
U.S.S.R.	540	3,947	780	1,387	4,555	²⁾ 225	11,434	519,422	4	3	59
United Kingdom ...	107	3,739	123	708	487	³⁾ 1	5,165	288,117	1	3	38
Netherlands	54	1,904	78	2	43	—	2,081	143,050	—	1	13
Union of South Africa	7	993	40	681	1,793	⁴⁾ 9	3,523	102,786	2	—	17
Australia	2	—	1,525	—	282	—	1,809	89,366	5	—	14
Peru	—	—	—	—	3,451	—	3,451	75,426	3	—	8
Chile	131	52	2	13	1,886	—	2,084	41,443	3	—	16
Argentina	6	467	—	426	33	—	932	40,500	1	—	7
Iceland	—	160	—	42	177	—	379	17,536	1	—	4
New Zealand	—	—	361	—	—	—	361	15,184	2	—	6
Portugal ⁷⁾	—	—	—	—	506	—	506	13,107	—	—	—
United States	1	138	234	48	30	⁵⁾ 2	453	12,586	5	—	14
Brazil	—	21	13	750	29	—	813	10,800	2	—	5
Spain	—	—	—	—	122	⁶⁾ 75	197	5,263	2	—	3
Canada	—	1	—	—	1	—	2	27	—	—	—
Total	1,465	30,985	3,575	7,035	20,244	312	63,616	2,881,630	54	23	399

¹⁾ Barrel = 170 kg. (Barrel = $\frac{1}{6}$ long ton, 1 long ton = 1,016 kg.) ²⁾ 207 Minke-whales, and 18 bottlenoses. ³⁾ Minke-whales. ⁴⁾ Bryde whales. ⁵⁾ Baird's beaked whales ⁶⁾ Baleen whales, not specified. ⁷⁾ No information received from San Miguel and San Jorge, Azores.

Table No. 7.—Average size of whales caught in the summer season 1960.

Geographical areas. Number of whales measured.	Company.	Average size.		
		Males.	Females.	Total animals.
A. Blue-whales.		Engl. feet.	Engl. feet.	Engl. feet.
<i>Africa:—</i>				
Natal	—	68.33	71.33	69.83
Males 3 } Total 6.				
Females 3 }				
Cape Province	—	—	61.00	61.00
Female 1.				
Africa, total	—	68.33	68.75	68.57
Males 3 } Total 7.				
Females 4 }				
<i>Pacific North:—</i>				
California	—	67.00	—	67.00
Male 1.				

Table No. 7 (continued).

Geographical areas. Number of whales measured.	Company.	Average size.		
		Males.	Females.	Total animals.
		Engl. feet.	Engl. feet.	Engl. feet.
North Pacific Ocean and Bering Sea	—	75.12	79.21	76.76
Males 42 } Females 28 } Total 70.				
Kuril Islands	—	72.56	74.60	73.29
Males 9 } Females 5 } Total 14.				
Japan	—	65.00	—	65.00
Male 1.				
Pacific North, total	—	74.34	78.52	75.94
Males 53 } Females 33 } Total 86.				
<i>Australia</i>	—	—	68.50	68.50
Females 2.				
<u>B. Fin-whales.</u>				
<i>Africa</i> :—				
Natal	—	60.31	61.51	60.92
Males 361 } Females 369 } Total 730.				
Cape Province	—	61.55	63.14	62.38
Males 121 } Females 134 } Total 255.				
Africa, total	—	60.62	61.94	61.30
Males 482 } Females 503 } Total 985.				
<i>Brazil</i>	--	63.17	66.11	64.43
Males 12 } Females 9 } Total 21.				
<i>North Atlantic and Arctic</i> :—				
Norway	No. 1	57.92	61.93	60.15
Males 63 } Females 65 } Total 128.	" 2	58.68	62.05	60.00
	" 3	59.50	58.73	59.00
Average		58.49	61.23	59.88
Iceland	—	60.27	61.76	61.01
Males 81 } Females 79 } Total 160.				
Newfoundland	--	53.00	—	53.00
Male 1.				
North Atlantic and Arctic, total	—	59.45	61.52	60.48
Males 145 } Females 144 } Total 289.				

Table No. 7 (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	No. 1	59.42	61.59	60.57
Males 64 } Total 138.	" 2	60.25	62.39	61.41
Females 74 }				
Average		59.78	61.95	60.94
North Pacific Ocean and Bering Sea	—	59.34	61.66	60.52
Males 684 } Total 1,393.				
Females 709 }				
Kamtchatka, pelagic	—	60.23	63.45	61.91
Males 61 } Total 128.				
Females 67 }				
Kuril Islands	—	59.22	61.80	60.46
Males 138 } Total 265.				
Females 127 }				
Japan	No. 1	57.00	53.20	55.73
Males 67 } Total 131.	" 2	56.14	60.00	58.20
Females 64 }	" 3	52.95	57.47	54.89
	" 4	55.68	59.63	57.86
	" 5	50.00	50.00	50.00
Average		55.07	58.56	56.78
Pacific North, total.....	—	59.13	61.62	60.39
Males 1,014 } Total 2,055.				
Females 1,041 }				
<u>C. Humpbacks.</u>				
<i>Africa:—</i>				
Natal	—	36.83	37.89	37.36
Males 18 } Total 36				
Females 18 }				
Cape Province	—	44.50	47.00	45.75
Males 2 } Total 4.				
Females 2 }				
Africa, total.....	—	37.60	38.80	38.20
Males 20 } Total 40.				
Females 20 }				
<i>Brazil</i>	No. 1	40.43	37.67	39.60
Males 10 } Total 13.	" 2	38.00	—	38.00
Females 3 }				
Average		39.70	37.67	39.23
<i>Pacific North:—</i>				
California	No. 1	41.25	41.13	41.18
Males 31 } Total 67.	" 2	41.00	42.15	41.54
Females 36 }				
Average		41.13	41.50	41.33

Table No 7 (continued).

Geographical areas. Number of whales measured.	Company.	Average size.		
		Males.	Females.	Total animals.
		Engl. feet.	Engl. feet.	Engl. feet.
Kamtschatka, pelagic whaling. Males 24 } Total 57. Females 33 }	—	39.33	42.85	41.37
Kuril Islands..... Males 3.	—	45.67	—	45.67
Japan Males 1 } Total 2. Females 1 }	No. 1 " 2	35.00 —	— 37.00	35.00 37.00
Average		35.00	37.00	36.00
Ryukyu Islands Males 64 } Total 167. Females 103 }	No. 1 " 2 " 3	37.74 38.93 38.00	39.38 41.24 39.82	38.71 40.30 39.33
Average		38.31	40.23	39.50
Pacific North, total..... Males 123 } Total 296 Females 173 }	--	39.37	40.98	40.31
<i>Australia</i> Males 873 } Total 1,525. Females 652 }	No. 1 " 2 " 3 " 4 " 5	40.41 41.62 38.03 38.23 40.55	41.84 42.42 39.45 39.94 41.76	40.94 42.00 38.57 39.13 41.02
Average		39.84	41.08	40.37
<i>New Zealand</i> Males 227 } Total 361. Females 134 }	No. 1 " 2	39.05 39.97	42.42 40.60	39.82 40.26
Average		39.55	41.02	40.09
<u>D Sei-whales.</u>				
<i>Africa</i> :—				
Natal..... Males 98 } Total 175. Females 77 }	—	43.92	44.18	44.03
Cape Province..... Males 152 } Total 498. Females 346 }	—	46.32	47.46	47.11
Africa, total..... Males 250 } Total 673. Females 423 }	—	45.38	46.87	46.31
<i>Brazil</i> :..... Males 420 } Total 750. Females 330 }	No. 1 " 2	46.10 49.55	48.18 52.78	47.22 50.81
Average		48.60	50.90	49.61

Table No. 7 (continued).

Geographical areas. Number of whales measured.	Company.	Average size.		
		Males.	Females.	Total animals.
		Engl. feet.	Engl. feet.	Engl. feet.
<i>North Atlantic and Arctic:—</i>				
Norway	—	39.50	—	39.50
Males 2.				
Iceland	—	43.25	44.69	44.14
Males 16 } Total 42.				
Females 26 }				
North Atlantic and Arctic, total	—	42.83	44.69	43.93
Males 18 } Total 44.				
Females 26 }				
<i>Pacific North:—</i>				
California	No. 1	42.63	44.38	43.42
Males 19 } Total 47.	„ 2	43.73	45.17	44.48
Females 28 }				
Average		43.26	44.39	43.94
North Pacific Ocean and Bering Sea	—	46.25	48.08	46.90
Males 131 } Total 203.				
Females 72 }				
Kamtchatka, pelagic	—	47.03	48.28	47.56
Males 34 } Total 59.				
Females 25 }				
Kuril Islands.....	—	46.31	46.39	46.34
Males 86 } Total 140.				
Females 54 }				
Japan.....	No. 1	40.01	40.80	40.41
Males 381 } Total 789.	„ 2	41.09	41.53	41.32
Females 408 }	„ 3	40.26	42.56	41.53
	„ 4	42.13	42.74	42.44
	„ 5	40.85	42.31	41.50
Average		40.66	41.52	41.10
Ryukyu Islands	—	40.00	—	40.00
Male 1.				
Pacific North, total.....	—	42.93	43.20	43.06
Males 652 } Total 1,239.				
Females 587 }				
<u>E. Sperm-whales.</u>				
<i>Africa:—</i>				
Natal	—	41.05	35.40	38.96
Males 641 } Total 1,017.				
Females 376 }				
Cape Province.....	—	40.24	36.12	39.05
Males 548 } Total 769				
Females 221 }				

Table No. 7 (continued).

Geographical areas. Number of whales measured.	Company.	Average size.		
		Males.	Females.	Total animals.
		Engl. feet.	Engl. feet.	Engl. feet.
Africa, total.....	—	40.68	35.67	39.00
Males 1,189 } Total 1,786				
Females 597 }				
<i>South Atlantic Ocean</i> , pelagic ...				
Males 23 } Total 34	No. 1	43.07	33.00	40.95
Female 11 }	„ 2	43.75	33.14	38.80
Average		43.30	33.09	40.00
<i>Brazil</i>				
Males 11 } Total 29.	No. 1	40.90	36.00	37.75
Females 18 }	„ 2	53.00	—	53.00
Average		42.00	36.00	38.28
<i>North Atlantic and Arctic</i> :—				
Norway				
Males 83	No. 1	51.67	—	51.67
	„ 2	49.85	—	49.85
Average		50.37	—	50.37
Iceland	—	51.15	—	51.15
Males 177.				
Newfoundland.....	—	51.00	—	51.00
Male 1.				
North Atlantic and Arctic, total	—	50.90	—	50.90
Males 261.				
<i>Pacific North</i> :—				
California				
Males 14 } Total 16.	No. 1	45.63	34.00	43.30
Females 2 }	„ 2	43.60	—	43.60
Average		44.71	34.00	43.38
North Pacific Ocean and				
Bering Sea				
Males 1,798 } Total 1,799.	No. 1	45.30	41.00	45.28
Females 1 }	„ 2	46.16	—	46.16
Average		46.06	41.00	46.06
Kamtchatka, pelagic	—	44.71	37.68	44.58
Males 2,188 } Total 2,228				
Females 40 }				
Kuril Islands.....	—	38.68	36.20	38.27
Males 1,241 } Total 1,485.				
Females 244 }				
Japan.....				
Males 994 } Total 2,107.	No. 1	37.72	36.00	36.90
Females 1,113 }	„ 2	39.49	36.20	37.52
	„ 3	37.37	35.57	36.15
	„ 4	39.43	35.55	37.81
	„ 5	38.01	35.40	36.53
Average		38.29	35.86	37.01

Table No. 7 (continued).

Geographical areas. Number of whales measured.	Company.	Average size.		
		Males.	Females.	Total animals.
		Engl. feet.	Engl. feet.	Engl. feet.
Ryukyu Islands	No. 1	38.40	—	38.40
Males 14.	" 2	40.50	—	40.50
	" 3	43.00	—	43.00
Average		39.93	—	39.93
Pacific North, total.....	—	42.87	35.98	41.61
Males 6,249 } Total 7,649.				
Females 1,400 }				
Peru	—	41.20	30.37	38.01
Males 91 } Total 129.				
Females 38 }				
Australia.....	—	43.20	35.90	42.94
Males 272 } Total 282				
Females 10 }				
<u>F. Bryde-whales.</u>				
Africa:—				
Cape Province.....	—	48.40	50.50	49.33
Males 5 } Total 9.				
Females 4 }				

**Table No. 8.—Whales caught in the summer season 1960,
by species, sex, and size.**

I. Natal.

Blue-whales.

Engl. feet.	Number of		Total animals.	
	males.	females.		
66	1	1	2	Average size { Males: 68.33 feet Females: 71.33 " Total animals: 69.83 "
68	1	—	1	
71	1	—	1	
72	—	1	1	
76	—	1	1	
Sum	3	3	6	Per cent { Males: 50.00 Females: 50.00

Fin-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
49	1	2	3	69	9	7	16
50	6	2	8	70	4	13	17
51	3	3	6	71	7	10	17
52	5	2	7	72	1	11	12
53	—	2	2	73	1	7	8
55	31	37	68	74	1	4	5
56	24	35	59	75	1	5	6
57	46	46	92	76	—	3	3
58	47	23	70	77	—	3	3
59	29	22	51	78	—	2	2
60	27	24	51	Sum	361	369	¹⁾ 730
61	17	22	39	Average size { Males: 60.31 feet Females: 61.51 " Total animals: 60.92 "	Per cent { Males: 49.45 Females: 50.55		
62	11	21	32				
63	13	15	28				
64	23	9	32				
65	14	13	27				
66	17	9	26				
67	15	6	21				
68	8	11	19				

¹⁾ In addition 8 fin-whales lost.

Humpbacks.

Engl. feet.	Number of		Total animals.	
	males.	females.		
35	6	2	8	Average size { Males: 36.83 feet Females: 37.89 " Total animals: 37.36 "
36	5	2	7	
37	1	6	7	
38	2	2	4	
39	1	1	2	
40	2	3	5	Per cent { Males: 50.00 Females: 50.00
41	1	1	2	
42	—	1	1	
Sum	18	18	36	

Table No. 8 (continued).

Sei-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.		
	males.	females.			males.	females.			
35	2	1	3	50	3	5	8		
36	—	1	1	51	1	4	5		
37	4	1	5	52	1	4	5		
38	1	1	2	53	—	1	1		
39	—	2	2	54	—	1	1		
40	12	12	24	56	—	1	1		
41	10	16	26	Sum	98	77	¹⁾ 175		
42	8	4	12	Average size	Males: 43.92 feet	Females: 44.18 "	Total animals: 44.03 "		
43	6	5	11					Per cent	Males: 56.00	Females: 44.00
44	8	1	9						
45	8	5	13						
46	14	4	18						
47	7	4	11						
48	11	3	14						
49	2	1	3						

¹⁾ In addition 8 sei-whales lost.

Sperm-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.		
	males.	females.			males.	females.			
28	2	—	2	47	29	—	29		
29	1	1	2	48	15	—	15		
31	2	8	10	49	9	—	9		
32	2	7	9	50	14	—	14		
33	—	6	6	51	6	—	6		
34	1	—	1	52	6	—	6		
35	28	174	202	53	4	—	4		
36	65	144	209	55	1	—	1		
37	80	29	109	Sum	641	376	¹⁾ 1,017		
38	44	7	51	Average size	Males: 41.05 feet	Females: 35.40 "	Total animals: 38.96 "		
39	41	—	41					Per cent	Males: 63.03	Females: 36.97
40	51	—	51						
41	36	—	36						
42	55	—	55						
43	48	—	48						
44	51	—	51						
45	26	—	26						
46	24	—	24						

¹⁾ In addition 7 sperm-whales lost.

Table No. 8 (continued).

2. Cape Province.

Blue-whales.

1 female. — Average size: 61.00 feet.

Fin-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
47	1	—	1	71	1	3	4
48	—	1	1	72	—	1	1
52	2	—	2	73	2	—	2
55	6	15	21	74	1	6	7
56	6	9	15	75	2	3	5
57	22	9	31	76	—	5	5
58	7	10	17	77	—	1	1
59	8	10	18	78	—	3	3
60	16	7	23	79	—	1	1
61	3	6	9	Sum	121	134	255
62	7	7	14	Average size { Males: 61.55 feet			
63	3	8	11	{ Females: 63.14 "			
64	3	3	6	{ Total animals: 62.38 "			
65	6	4	10	Per cent { Males: 47.45			
66	5	3	8	{ Females: 52.55			
67	3	6	9				
68	2	—	2				
69	8	9	17				
70	7	4	11				

Humpbacks.

42	1	—	1	Average size { Males: 44.50 feet			
44	—	1	1	{ Females: 47.00 "			
47	1	—	1	{ Total animals: 45.75 "			
50	—	1	1	Per cent { Males: 50.00			
Sum	2	2	4	{ Females: 50.00			

Sei-whales.

32	1	—	1	51	17	32	49
34	—	1	1	52	9	35	44
36	1	5	6	53	7	34	41
37	2	4	6	54	1	12	13
38	8	7	15	55	—	14	14
39	6	5	11	56	1	7	8
40	9	24	33	57	—	2	2
41	8	23	31	Sum	152	346	498
42	3	21	24	Average size { Males: 46.32 feet			
43	9	15	24	{ Females: 47.46 "			
44	5	10	15	{ Total animals: 47.11 "			
45	3	16	19	Per cent { Males: 30.52			
46	8	9	17	{ Females: 69.48			
47	13	15	28				
48	14	9	23				
49	12	20	32				
50	15	26	41				

Table No. 8 (continued).

Sperm-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
30	1	—	1	49	5	—	5
31	1	1	2	50	5	—	5
32	1	2	3	51	4	—	4
33	—	1	1	52	3	—	3
35	39	75	114	53	4	—	4
36	36	72	108	54	2	—	2
37	52	40	92	55	1	—	1
38	60	18	78	56	1	—	1
39	87	9	96	57	1	—	1
40	81	1	82				
41	40	1	41	Sum	548	221	769
42	32	1	33				
43	22	—	22	Average size	{ Males: 40.24 feet		
44	20	—	20		{ Females: 36.12 "		
45	21	—	21		{ Total animals: 39.05 "		
46	10	—	10	Per cent	{ Males: 71.26		
47	11	—	11		{ Females: 28.74		
48	8	—	8				

Bryde-whales.

44	1	—	1				
45	1	—	1				
47	—	1	1				
48	1	—	1	Average size	{ Males: 48.40 feet		
50	1	—	1		{ Females: 50.50 "		
51	—	1	1		{ Total animals: 49.33 "		
52	—	2	2	Per cent	{ Males: 55.56		
55	1	—	1		{ Females: 44.44		
Sum	5	4	9				

3. Summary Africa.

(Natal and Cape Province.)

Blue-whales.

Engl. feet.	Number of		Total animals.	
	males.	females.		
61	—	1	1	
66	1	1	2	Average size
68	1	—	1	{ Males: 68.33 feet
71	1	—	1	{ Females: 68.75 "
72	—	1	1	{ Total animals: 68.57 "
76	—	1	1	Per cent
Sum	3	4	7	{ Males: 42.86
				{ Females: 57.14

Table No. 8 (continued).

Fin-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
47	1	-	1	68	10	11	21
48	-	1	1	69	17	16	33
49	1	2	3	70	11	17	28
50	6	2	8	71	8	13	21
51	3	3	6	72	1	12	13
52	7	2	9	73	3	7	10
53	-	2	2	74	2	10	12
55	37	52	89	75	3	8	11
56	30	44	74	76	-	8	8
57	68	55	123	77	-	4	4
58	54	33	87	78	-	5	5
59	37	32	69	79	-	1	1
60	43	31	74	Sum	482	503	¹⁾ 985
61	20	28	48	Average size	Males: 60.62 feet Females: 61.94 " Total animals: 61.30 "		
62	18	28	46	Per cent	Males: 48.93 Females: 51.07		
63	16	23	39				
64	26	12	38				
65	20	17	37				
66	22	12	34				
67	18	12	30				

¹⁾ In addition 8 fin-whales lost.

Humpbacks.

				Engl. feet.			
36	5	2	7	50	-	1	1
37	1	6	7	Sum	20	20	40
38	2	2	4	Average size	Males: 37.60 feet Females: 38.80 " Total animals: 38.20 "		
39	1	1	2	Per cent	Males: 50.00 Females: 50.00		
40	2	3	5				
41	1	1	2				
42	1	1	2				
44	-	1	1				

Sei-whales.

				Engl. feet.			
34	-	1	1	51	18	36	54
35	2	1	3	52	10	39	49
36	1	6	7	53	7	35	42
37	6	5	11	54	1	13	14
38	9	8	17	55	-	14	14
39	6	7	13	56	1	8	9
40	21	36	57	57	-	2	2
41	18	39	57	Sum	250	423	¹⁾ 673
42	11	25	36	Average size	Males: 45.38 feet Females: 46.87 " Total animals: 46.31 "		
43	15	20	35	Per cent	Males: 37.15 Females: 62.85		
44	13	11	24				
45	11	21	32				
46	22	13	35				
47	20	19	39				
48	25	12	37				
49	14	21	35				

¹⁾ In addition 8 sei-whales lost.

Table No. 8 (continued).

Sperm-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.	
	males.	females.			males.	females.		
28	2	—	2	47	40	—	40	
29	1	1	2	48	23	—	23	
30	1	—	1	49	14	—	14	
31	3	9	12	50	19	—	19	
32	3	9	12	51	10	—	10	
33	—	7	7	52	9	—	9	
34	1	—	1	53	8	—	8	
35	67	249	316	54	2	—	2	
36	101	216	317	55	2	—	2	
37	132	69	201	56	1	—	1	
38	104	25	129	57	1	—	1	
39	128	9	137	Sum	1,189	597	¹⁾ 1,786	
40	132	1	133	Average size { Males: 40.68 feet Females: 35.67 " Total animals: 39.00 " Per cent { Males: 66.57 Females: 33.43				
41	76	1	77					
42	87	1	88					
43	70	—	70					
44	71	—	71					
45	47	—	47					
46	34	—	34					

¹⁾ In addition 7 sperm-whales lost.

Bryde-whales.

44	1	—	1	Average size { Males: 48.40 feet Females: 50.50 " Total animals: 49.33 " Per cent { Males: 55.56 Females: 44.44				
45	1	—	1					
47	—	1	1					
48	1	—	1					
50	1	—	1					
51	—	1	1					
52	—	2	2					
55	1	—	1					
Sum	5	4	9					

4. South Atlantic Ocean, pelagic.

(Catch by floating factory on voyage to and from the Antarctic whaling grounds.)
North of 40° South Latitude.

Sperm-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.	
	males.	females.			males.	females.		
30	—	2	2	47	—	—	—	
32	—	2	2	48	1	—	1	
33	—	1	1	49	—	—	—	
34	2	4	6	50	1	—	1	
35	1	1	2	51	1	—	1	
36	—	1	1	52	1	—	1	
40	2	—	2	Sum	23	11	34	
41	2	—	2	Average size { Males: 43.30 feet Females: 33.09 " Total animals: 40.00 " Per cent { Males: 67.65 Females: 32.35				
42	2	—	2					
43	1	—	1					
44	4	—	4					
45	3	—	3					
46	2	—	2					

Table No. 8 (continued).

5. Brazil.

Fin-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
55	1	1	2	68	1	1	2
56	2	—	2	69	2	—	2
57	—	1	1	71	1	—	1
58	—	1	1	75	—	3	3
60	1	—	1	Sum	12	9	21
61	1	—	1	Average size {	Males: 63.17 feet		
63	1	—	1		Females: 66.11 "		
64	1	—	1		Total animals: 64.43 "		
65	—	1	1		Per cent {	Males: 57.14	
66	1	—	1			Females: 42.86	
67	—	1	1				

Humpbacks.

35	4	2	6	Average size {	Males: 39.70 feet	
36	1	—	1		Females: 37.67 "	
38	1	—	1		Total animals: 39.23 "	
40	1	—	1		Per cent {	Males: 76.92
41	1	—	1	Females: 23.08		
43	—	1	1			
51	2	—	2			
Sum	10	3	13			

Sei-whales.

32	—	1	1	52	47	35	82
35	5	2	7	53	18	52	70
36	2	4	6	54	7	33	40
37	3	3	6	55	6	33	39
38	2	1	3	56	—	17	17
39	2	2	4	57	—	5	5
40	4	3	7	58	1	5	6
41	3	3	6	Sum	420	330	750
42	—	1	1	Average size {	Males: 48.60 feet		
43	4	2	6		Females: 50.90 "		
44	9	9	18		Total animals: 49.61 "		
45	15	5	20		Per cent {	Males: 56.00	
46	26	7	33			Females: 44.00	
47	47	13	60				
48	58	14	72				
49	64	13	77				
50	60	27	87				
51	37	40	77				

Table No. 8 (continued).

Sperm-whales.

Engl. feet.	Number of		Total animals.	
	males.	females.		
35	—	8	8	
36	—	4	4	
37	3	4	7	
38	—	2	2	
39	2	—	2	
40	1	—	1	
43	1	—	1	
45	2	—	2	
47	1	—	1	
53	1	—	1	
Sum	11	18	29	

Average size { Males: 42.00 feet
Females: 36.00 „
Total animals: 38.28 „

Per cent { Males: 37.93
Females: 62.07

6. Azores.

(Excl. San Miguel and San Jorge.)

Sperm-whales.

338. Length and sex not stated.

7. Madeira.**Sperm-whales.**

168. Length and sex not stated.

8. Spain.

Baleen whales,

not specified: 47 males and 28 females, total 75.

Sperm-whales: 115 „ „ 7 „ „ 122.**9. Norway.****Fin-whales.**

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
50	3	1	4	67	2	3	5
51	6	3	9	68	—	3	3
52	4	4	8	69	—	3	3
53	5	1	6	70	1	3	4
54	1	—	1	71	—	2	2
55	3	3	6	74	—	1	1
56	1	1	2	75	—	1	1
57	5	5	10				
58	4	3	7				
59	2	4	6	Sum	63	65	128
60	5	8	13				
61	—	4	4				
62	5	4	9				
63	5	2	7				
64	1	3	4				
65	7	1	8				
66	3	2	5				

Average size { Males: 58.49 feet
Females: 61.23 „
Total animals: 59.88 „

Per cent { Males: 49.22
Females: 50.78

Table No. 8 (continued).

Sei-whales.

Engl. feet.	Number of		Total animals.
	males	females	
36	1	—	1
43	1	—	1
Sum	2	—	2

Average size: Males: 39.50 ft.

Sperm-whales.

Engl. feet.	males.
44	1
45	1
47	6
48	8
49	14
50	19
51	10
52	8
53	6
54	5
55	4
56	1
Sum	¹⁾ 83

Average size:
Males: 50.37 feet.

¹⁾ In addition 1 sperm-whale lost.

10. Iceland.

Fin-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
48	—	1	1	66	2	6	8
50	1	1	2	67	—	6	6
51	1	2	3	68	—	6	6
52	2	1	3	69	—	3	3
53	2	2	4	70	—	—	—
54	1	6	7	71	—	3	3
55	2	2	4	72	—	1	1
56	4	2	6	Sum	81	79	160
57	4	3	7	Average size { Males: 60.27 feet Females: 61.76 „ Total animals: 61.01 „ Per cent { Males: 50.63 Females: 49.37			
58	5	2	7				
59	4	3	7				
60	7	4	11				
61	12	6	18				
62	11	5	16				
63	13	4	17				
64	6	5	11				
65	4	5	9				

Table No 8 (continued).

Sei-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
36	—	1	1	49	—	1	1
37	—	1	1	50	—	1	1
40	2	1	3	Sum	16	26	42
41	—	1	1	Average size { Males: 43.25 feet Females: 44.69 " Total animals: 44.14 " Per cent { Males: 38.10 Females: 61.90			
42	2	1	3				
43	4	2	6				
44	4	3	7				
45	4	3	7				
46	—	4	4				
47	—	6	6				
48	—	1	1				

Sperm-whales.

Engl feet	Males
41	6
43	5
44	4
45	3
46	1
47	3
48	5
49	11
50	14
51	24
52	30
53	27
54	26
55	13
56	4
57	1
Sum	177

Average size: Males: 51.15 feet.

11. Newfoundland.

Fin-whales.

1 male of 53 feet.

Sperm-whales.

1 male of 51 feet.

Table No. 8 (continued).

12. Summary North Atlantic and Arctic.

(Norway, Iceland and Newfoundland.)

Fin-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
48	—	1	1	67	2	9	11
50	4	2	6	68	—	9	9
51	7	5	12	69	—	6	6
52	6	5	11	70	1	3	4
53	8	3	11	71	—	5	5
54	2	6	8	72	—	1	1
55	5	5	10	74	—	1	1
56	5	3	8	75	—	1	1
57	9	8	17				
58	9	5	14	Sum	145	144	289
59	6	7	13				
60	12	12	24				
61	12	10	22	Average size	{	Males: 59.45 feet	
62	16	9	25			Females: 61.52 "	
63	18	6	24			Total animals: 60.48 "	
64	7	8	15	Per cent	{	Males: 50.17	
65	11	6	17			Females: 49.83	
66	5	8	13				

Sei-whales.

36	1	1	2	49	—	1	1
37	—	1	1	50	—	1	1
40	2	1	3	Sum	18	26	44
41	—	1	1				
42	2	1	3	Average size	{	Males: 42.83 feet	
43	5	2	7			Females: 44.69 "	
44	4	3	7			Total animals: 43.93 "	
45	4	3	7	Per cent	{	Males: 40.91	
46	—	4	4			Females: 59.09	
47	—	6	6				
48	—	1	1				

Sperm-whales.

Engl. feet.	Males
41	6
43	5
44	5
45	4
46	1
47	9
48	13
49	25
50	33
51	35
52	38
53	33
54	31
55	17
56	5
57	1
Sum	¹⁾ 261

Average size: Males:
50.90 feet.¹⁾ In addition 1 sperm-whale lost.

Table No. 8 (continued).

13. California.

Blue-whales.

1 male of 67 feet.

Fin-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
49	1	—	1	66	1	7	8
50	2	1	3	67	—	5	5
51	2	3	5	68	—	2	2
52	2	1	3	69	—	3	3
54	2	2	4	70	—	4	4
55	1	—	1	73	—	2	2
56	2	6	8				
57	1	3	4	Sum	64	74	138
58	5	3	8				
59	3	5	8				
60	7	6	13	Average size	{	Males: 59.78 feet	
61	11	3	14			Females: 61.95 "	
62	8	6	14			Total animals: 60.94 "	
63	8	6	14	Per cent	{	Males: 46.38	
64	5	4	9			Females: 53.62	
65	3	2	5				

Humpbacks.

35	3	6	9	47	—	4	4
36	1	1	2	49	—	1	1
37	—	1	1	50	—	1	1
38	2	2	4	Sum	31	36	67
39	4	3	7				
40	3	3	6	Average size	{	Males: 41.13 feet	
41	5	1	6			Females: 41.50 "	
42	2	3	5			Total animals: 41.33 "	
43	2	3	5	Per cent	{	Males: 46.27	
44	2	2	4			Females: 53.73	
45	3	3	6				
46	4	2	6				

Sei-whales.

35	1	—	1	49	—	3	3
37	—	1	1	50	—	1	1
40	—	3	3	Sum	19	28	47
41	3	4	7				
42	2	—	2	Average size	{	Males: 43.26 feet	
43	2	3	5			Females: 44.39 "	
44	5	2	7			Total animals: 43.94 "	
45	4	6	10	Per cent	{	Males: 40.43	
46	1	1	2			Females: 59.57	
48	1	4	5				

Table No. 8 (continued).

Sperm-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals
	males.	females.			males.	females.	
33	—	1	1	51	1	—	1
35	—	1	1	54	1	—	1
38	1	—	1	Sum	14	2	16
39	1	—	1	Average size { Males: 44.71 feet Females: 34.00 „ Total animals: 43.38 „ Per cent { Males: 87.50 Females: 12.50			
43	4	—	4				
44	2	—	2				
45	1	—	1				
46	2	—	2				
47	1	—	1				

14. North Pacific Ocean and Bering Sea, pelagic.

Blue-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
70	2	1	3	83	1	2	3
71	3	2	5	84	—	3	3
72	4	—	4	85	—	1	1
73	6	1	7	Sum	42	28	70
74	5	—	5	Average size { Males: 75.12 feet Females: 79.21 „ Total animals: 76.76 „ Per cent { Males: 60.00 Females: 40.00			
75	6	—	6				
76	3	1	4				
77	3	2	5				
78	2	2	4				
79	4	3	7				
80	1	6	7				
81	2	1	3				
82	—	3	3				

Fin-whales.

52	2	1	3	67	4	35	39
53	2	7	9	68	2	21	23
54	1	1	2	69	1	21	22
55	64	44	108	70	—	5	5
56	54	35	89	71	—	4	4
57	78	40	118	72	—	2	2
58	77	57	134	Sum	684	709	1,393
59	83	53	136	Average size { Males: 59.34 feet Females: 61.66 „ Total animals: 60.52 „ Per cent { Males: 49.10 Females: 50.90			
60	76	55	131				
61	90	45	135				
62	68	62	130				
63	39	45	84				
64	26	67	93				
65	9	60	69				
66	8	49	57				

Table No. 8 (continued).

Sei-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
40	1	1	2	52	—	6	6
41	1	2	3	53	—	3	3
42	2	—	2	Sum	131	72	203
43	5	3	8	Average size { Males: 46.25 feet Females: 48 08 „ Total animals: 46 90 „ Per cent { Males: 64.53 Females: 35.47			
44	15	2	17				
45	16	4	20				
46	24	7	31				
47	35	11	46				
48	20	8	28				
49	10	9	19				
50	2	8	10				
51	—	8	8				

Sperm-whales.

38	22	—	22	52	78	—	78
39	48	—	48	53	26	—	26
40	80	—	80	54	11	—	11
41	98	1	99	55	1	—	1
42	124	—	124	Sum	1,798	1	1) 1,799
43	134	—	134	Average size { Males: 46.06 feet Females: 41.00 „ Total animals: 46.06 „ Per cent { Males: 99.94 Females: 0.06			
44	146	—	146				
45	118	—	118				
46	158	—	158				
47	165	—	165				
48	161	—	161				
49	158	—	158				
50	155	—	155				
51	115	—	115				

1) In addition 1 sperm-whale lost.

15. Kamtchatka.

Fin-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
49	—	1	1	67	2	9	11
55	10	2	12	68	1	6	7
56	9	4	13	69	6	4	10
57	4	1	5	82	—	1	1
58	3	2	5	Sum	61	67	128
59	2	4	6	Average size { Males: 60 23 feet Females: 63 45 „ Total animals: 61 91 „ Per cent { Males: 47 66 Females: 52 34			
60	3	2	5				
61	8	4	12				
62	9	7	16				
63	2	2	4				
64	—	9	9				
65	—	4	4				
66	2	5	7				

Table No. 8 (continued).

Humpbacks.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
31	1	—	1	48	1	4	5
33	1	2	3	49	—	2	2
35	5	4	9	50	—	1	1
38	2	1	3	52	—	1	1
39	7	3	10	Sum	24	33	57
40	1	2	3	Average size { Males: 39.33 feet Females: 42.85 " Total animals: 41.37 " Per cent { Males: 42.11 Females: 57.89			
41	—	2	2				
42	2	1	3				
43	—	2	2				
44	1	—	1				
45	—	1	1				
46	1	3	4				
47	2	4	6				

Sei-whales.

41	1	—	1	51	5	3	8
43	4	—	4	52	1	—	1
44	2	—	2	Sum	34	25	59
45	5	2	7	Average size { Males: 47.03 feet Females: 48.28 " Total animals: 47.56 " Per cent { Males: 57.63 Females: 42.37			
46	7	3	10				
47	—	3	3				
48	—	4	4				
49	6	7	13				
50	3	3	6				

Sperm-whales.

32	1	1	2	50	205	—	205
33	2	2	4	51	120	—	120
35	1	—	1	52	53	—	53
36	1	—	1	53	17	—	17
37	3	—	3	54	3	—	3
38	196	34	230	Sum	2,188	40	2,228
39	214	3	217	Average size { Males: 44.71 feet Females: 37.68 " Total animals: 44.58 " Per cent { Males: 98.20 Females: 1.80			
40	131	—	131				
41	129	—	129				
42	93	—	93				
43	168	—	168				
44	116	—	116				
45	107	—	107				
46	133	—	133				
47	125	—	125				
48	147	—	147				
49	223	—	223				

Table No. 8 (continued).

16. Kuril Islands.**Blue-whales.**

Engl. feet.	Number of		Total animals.	
	males.	females.		
70	3	—	3	Average size { Males: 72.56 feet Females: 74.60 „ Total animals: 73.29 „
71	2	1	3	
72	1	—	1	
73	—	—	—	Per cent { Males: 64.29 Females: 35.71
74	—	1	1	
75	—	1	1	
76	2	1	3	
77	1	1	2	
Sum	9	5	14	

Fin-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
51	1	—	1	68	1	4	5
55	33	18	51	69	1	7	8
56	14	6	20	70	2	4	6
57	9	5	14	71	—	1	1
58	10	6	16	74	2	—	2
59	13	6	19	Sum	138	127	265
60	12	5	17	Average size { Males: 59.22 feet Females: 61.80 „ Total animals: 60.46 „	Per cent { Males: 52.08 Females: 47.92		
61	10	14	24				
62	9	7	16				
63	5	12	17				
64	10	11	21				
65	3	8	11				
66	1	10	11				
67	2	3	5				

Humpbacks.

1 male of 35 feet and 2 males of 51 feet.
Average size: Males: 45.67 feet.

Sei-whales.

40	4	5	9	52	2	1	3
41	1	3	4	53	2	1	3
42	3	1	4	54	—	1	1
43	7	4	11	Sum	86	54	140
44	5	1	6	Average size { Males: 46.31 feet Females: 46.39 „ Total animals: 46.34 „	Per cent { Males: 61.43 Females: 38.57		
45	14	5	19				
46	12	2	14				
47	12	13	25				
48	11	6	17				
49	4	4	8				
50	4	4	8				
51	5	3	8				

Table No. 8 (continued).

Sperm-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
32	—	1	1	50	25	—	25
33	1	—	1	51	28	—	28
34	2	2	4	52	10	—	10
35	319	97	416	53	12	—	12
36	228	70	298	54	3	—	3
37	161	31	192	55	2	—	2
38	137	20	157	56	1	—	1
39	73	15	88	Sum	1,241	244	¹⁾ 1,485
40	45	3	48	Average size {			Males: 38.68 feet
41	48	3	51	{			Females: 36.20 „
42	23	2	25	{			Total animals: 38.27 „
43	28	—	28	Per cent {			Males: 83.57
44	18	—	18	{			Females: 16.43
45	15	—	15				
46	15	—	15				
47	11	—	11				
48	18	—	18				
49	18	—	18				

¹⁾ In addition 2 sperm-whales lost.

17. Japan.

Blue-whales.

1 male of 65 feet.

Fin-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
50	7	6	13	65	1	3	4
51	11	8	19	66	—	5	5
52	12	5	17	67	—	2	2
53	4	3	7	68	—	1	1
54	3	2	5	69	—	1	1
55	1	2	3	73	—	1	1
56	4	1	5	Sum	67	64	131
57	3	1	4	Average size {			Males: 55.07 feet
58	5	2	7	{			Females: 58.56 „
59	2	—	2	{			Total animals: 56.78 „
60	4	4	8	Per cent {			Males: 51.15
61	5	1	6	{			Females: 48.85
62	2	6	8				
63	3	8	11				
64	—	2	2				

Humpbacks.

1 male of 35 feet and 1 female of 37 feet.

Average size: 36 feet.

Table No. 8 (continued).

Sei-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
35	29	34	63	48	8	14	22
36	32	40	72	49	3	13	16
37	29	17	46	50	-	4	4
38	22	20	42	51	-	3	3
39	32	19	51	52	-	1	1
40	47	26	73	Sum	381	408	789
41	32	37	69	Average size	Males:	40.66 feet	
42	40	34	74			Females:	41.52 "
43	32	51	83				Total animals:	41.10 "
44	26	33	59	Per cent	Males: 48.29		
45	21	28	49		Females: 51.71		
46	18	21	39				
47	10	13	23				

Sperm-whales.

28	-	1	1	47	15	-	15
30	1	-	1	48	13	-	13
32	-	1	1	49	14	-	14
33	1	6	7	50	9	-	9
34	1	8	9	51	12	-	12
35	160	485	645	52	6	-	6
36	241	372	613	53	2	-	2
37	180	160	340	54	2	-	2
38	115	42	157	Sum	994	1,113	2,107
39	96	22	118	Average size	Males:	38.29 feet	
40	49	12	61			Females:	35.86 "
41	11	3	14				Total animals:	37.01 "
42	13	1	14	Per cent	Males: 47.18		
43	15	-	15		Females: 52.82		
44	13	-	13				
45	13	-	13				
46	12	-	12				

18. Ryukyu Islands.
Humpbacks.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
28	-	1	1	45	2	9	11
31	1	-	1	46	-	7	7
32	2	2	4	47	2	2	4
33	2	1	3	48	-	2	2
34	2	3	5	49	-	1	1
35	8	9	17	51	-	1	1
36	11	10	21	Sum	64	103	167
37	6	8	14	Average size	Males:	38.31 feet	
38	5	5	10			Females:	40.23 "
39	4	8	12				Total animals:	39.50 "
40	3	4	7	Per cent	Males: 38.32		
41	5	11	16		Females: 61.68		
42	4	8	12				
43	6	4	10				
44	1	7	8				

Table No. 8 (continued).

Sei-whales.

1 male of 40 feet.

Sperm-whales.

Engl. feet.	Number of males.
38	3
39	3
40	3
41	3
42	1
43	1
Sum	14

Average size: Males: 39.93 feet.

19. Summary Pacific North.

(California, North Pacific Ocean and Bering Sea, Kamtchatka, Kuril Islands, Japan and Ryukyu Islands.)

Blue-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
65	1	—	1	81	2	1	3
67	1	—	1	82	—	3	3
70	5	1	6	83	1	2	3
71	5	3	8	84	—	3	3
72	5	—	5	85	—	1	1
73	6	1	7	Sum	53	33	86
74	5	1	6	Average size {			Males: 74.34 feet
75	6	1	7	Females: 78.52 „			Total animals: 75.94 „
76	5	2	7	Per cent {			Males: 61.63
77	4	3	7	Females: 38.37			
78	2	2	4				
79	4	3	7				
80	1	6	7				

Fin-whales.

49	1	1	2	67	8	54	62
50	9	7	16	68	4	34	38
51	14	11	25	69	8	36	44
52	16	7	23	70	2	13	15
53	6	10	16	71	—	5	5
54	6	5	11	72	—	2	2
55	109	66	175	73	—	3	3
56	83	52	135	74	2	—	2
57	95	50	145	82	—	1	1
58	100	70	170	Sum	1,014	1,041	2,055
59	103	68	171	Average size {			Males: 59.13 feet
60	102	72	174	Females: 61.62 „			Total animals: 60.39 „
61	124	67	191	Per cent {			Males: 49.34
62	96	88	184	Females: 50.66			
63	57	73	130				
64	41	93	134				
65	16	77	93				
66	12	76	88				

Table No. 8 (continued).

Humpbacks.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.	
	males.	females.			males.	females.		
28	—	1	1	46	5	12	17	
31	2	—	2	47	4	10	14	
32	2	2	4	48	1	6	7	
33	3	3	6	49	—	4	4	
34	2	3	5	50	—	2	2	
35	18	19	37	51	2	1	3	
36	12	11	23	52	—	1	1	
37	6	10	16	Sum	123	173	296	
38	9	8	17	Average size {				Males: 39.37 feet
39	15	14	29	{				Females: 40.98 "
40	7	9	16	{				Total animals: 40.31 "
41	10	14	24	Per cent {				Males: 41.55
42	8	12	20	{				Females: 58.45
43	8	9	17					
44	4	9	13					
45	5	13	18					

Sei-whales.

35	30	34	64	49	23	36	59	
36	32	40	72	50	9	20	29	
37	29	18	47	51	10	17	27	
38	22	20	42	52	3	8	11	
39	32	19	51	53	2	4	6	
40	53	35	88	54	—	1	1	
41	38	46	84	Sum	652	587	1,239	
42	47	35	82	Average size {				Males: 42.93 feet
43	50	61	111	{				Females: 43.20 "
44	53	38	91	{				Total animals: 43.06 "
45	60	45	105	Per cent {				Males: 52.62
46	62	34	96	{				Females: 47.38
47	57	40	97					
48	40	36	76					

Sperm-whales.

28	—	1	1	48	339	—	339	
30	1	—	1	49	413	—	413	
32	1	3	4	50	394	—	394	
33	4	9	13	51	276	—	276	
34	3	10	13	52	147	—	147	
35	480	583	1,063	53	57	—	57	
36	470	442	912	54	20	—	20	
37	344	191	535	55	3	—	3	
38	474	96	570	56	1	—	1	
39	435	40	475	Sum	6,249	1,400	1) 7,649	
40	308	15	323	Average size {				Males: 42.87 feet
41	289	7	296	{				Females: 35.98 "
42	254	3	257	{				Total animals: 41.61 "
43	350	—	350	Per cent {				Males: 81.70
44	295	—	295	{				Females: 18.30
45	254	—	254					
46	320	—	320					
47	317	—	317					

1) In addition 3 sperm-whales lost.

Table No. 8 (continued).

20. Peru.

Sperm-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
22	—	1	1	44	5	—	5
26	1	1	2	45	2	—	2
27	—	1	1	46	4	—	4
28	1	5	6	47	—	—	—
29	2	2	4	48	9	—	9
30	3	11	14	49	2	—	2
31	1	3	4	50	7	—	7
32	5	9	14	51	1	—	1
33	5	1	6	52	6	—	6
34	6	3	9	53	1	—	1
35	1	1	2	Sum	91	38	¹⁾ 129
36	3	—	3	Average size	{	Males:	41.20 feet
37	3	—	3			Females:	30.37 "
38	1	—	1			Total animals:	38.01 "
39	2	—	2	Per cent	{	Males:	70.54
40	7	—	7			Females:	29.46
41	2	—	2				
42	8	—	8				
43	3	—	3				

¹⁾ In addition 3,322 sperm-whales caught, sex and length not stated.

21. Australia.

Blue-whales.

1 female of 68 feet and 1 female of 69 feet.

Average size: 68.50 feet.

Humpbacks.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
21	—	1	1	45	14	44	58
32	1	2	3	46	7	28	35
33	6	5	11	47	4	21	25
34	4	3	7	48	1	5	6
35	22	17	39	49	—	4	4
36	38	27	65	50	—	2	2
37	92	43	135	Sum	873	652	1,525
38	114	55	169	Average size	{	Males:	39.84 feet
39	128	52	180			Females:	41.08 "
40	118	68	186			Total animals:	40.37 "
41	119	74	193	Per cent	{	Males:	57.25
42	93	79	172			Females:	42.75
43	75	76	151				
44	37	46	83				

Table No. 8 (continued).

Sperm-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
35	6	3	9	49	15	—	15
36	11	5	16	50	7	—	7
37	5	2	7	51	6	—	6
38	19	—	19	52	4	—	4
39	18	—	18	53	1	—	1
40	26	—	26	Sum	272	10	282
41	19	—	19	Average size { Males: 43.20 feet Females: 35.90 „ Total animals: 42.94 „ Per cent { Males: 96.45 Females: 3.55			
42	15	—	15				
43	21	—	21				
44	33	—	33				
45	13	—	13				
46	17	—	17				
47	16	—	16				
48	20	—	20				

22. New Zealand.

Humpbacks.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
34	1	—	1	47	2	1	3
35	11	6	17	48	1	1	2
36	32	9	41	49	—	2	2
37	26	9	35	Sum	227	134	361
38	26	16	42	Average size { Males: 39.55 feet Females: 41.02 „ Total animals: 40.09 „ Per cent { Males: 62.88 Females: 37.12			
39	20	9	29				
40	23	12	35				
41	27	12	39				
42	17	16	33				
43	20	7	27				
44	13	9	22				
45	7	13	20				
46	1	12	13				

Table No. 9.—Average production of oil per “blue-whale unit” in the summer season 1960.

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

Geographical areas.	Company.	Blue-whale equivalents.	Oil production.	
			Total.	Average per blue-whale equivalent.
<i>Africa:—</i>				
Natal	No. 1	414.6	41,226	99.4
Cape Province	„ 1	214.6	16,160	75.3
Total		629.2	57,386	91.2
<i>Brazil.....</i>				
	No. 1	87.3	6,307	72.2
	„ 2	53.4	3,885	72.8
Total		140.7	10,192	72.4
<i>North Atlantic and Arctic:—</i>				
<i>Spain.....</i>				
	No. 1	²⁾ —	(793)	—
	„ 2	²⁾ —	(1,195)	—
<i>Norway.....</i>				
	„ 1	27.3	1,997	73.2
	„ 2	25.5	1,754	68.8
	„ 3	11.5	770	67.0
<i>Iceland.....</i>	„ 1	87.0	7,065	81.2
<i>Newfoundland.....</i>	„ 1	0.5	8	16.0
Total		151.8	11,594	76.4
<i>Pacific North:—</i>				
<i>California.....</i>				
	No. 1	59.1	4,218	71.4
	„ 2	45.5	4,075	89.6
<i>Bering Sea, pelagic.....</i>	„ 1	800.3	63,088	78.8
<i>Kamtchatka, pelagic.....</i>	„ 1	96.6	4,888	50.6
<i>Kuril Islands.....</i>	„ 1	171.0	10,723	62.7
<i>Japan.....</i>	„ 1	62.4	2,582	41.4
	„ 2	55.7	2,200	39.5
	„ 3	32.0	1,295	40.5
	„ 4	40.4	1,127	27.9
	„ 5	8.0	276	34.5
<i>Ryukyu Islands.....</i>	„ 1	26.4	1,410	53.4
	„ 2	28.6	1,464	51.2
	„ 3	12.0	720	60.0
Total		1,438.0	98,066	68.2
<i>Chile.....</i>				
	No. 1	137.7	7,450	54.1
	„ 2	22.3	826	37.0
Total		160.0	8,276	51.7
<i>Australia.....</i>				
	No. 1	264.0	36,500	138.3
	„ 2	60.0	7,805	130.1
	„ 3	44.0	5,073	115.3
	„ 4	176.0	20,678	117.5
	„ 5	68.0	8,606	126.6
Total		612.0	78,662	128.5
<i>New Zealand.....</i>				
	No. 1	54.0	6,684	123.8
	„ 2	90.4	8,500	94.0
Total		144.4	15,184	105.2

¹⁾ Barrel = 170 kg. (Barrel = abt. ¼ long ton, 1 long ton = 1,016 kg.) ²⁾ The baleen whales are not specified.

**Table No. 10.—Average production of oil per sperm-whale
in the summer season 1960.**

Geographical areas.	Company.	Number of sperm-whales.	Oil production.	
			Total.	Average per sperm-whale.
			Barrels. ¹⁾	Barrels. ¹⁾
<i>Africa:—</i>				
Natal	No. 1	1,017	27,510	27.1
Cape Province	„ 1	769	17,890	23.3
Total		1,786	45,400	25.4
<i>South Atlantic Ocean, pelagic....</i>	No. 1	19	575	30.3
	„ 2	15	414	27.6
Total		34	989	29.1
<i>Brazil</i>	No. 1	1	25	25.0
	„ 2	28	583	20.9
Total		29	608	21.0
<i>North Atlantic and Arctic:—</i>				
Azores ²⁾	No. 1	338	9,294	27.5
Madeira	„ 1	168	3,813	22.7
Spain	„ 1	57	1,740	30.5
	„ 2	65	1,535	23.6
Norway	„ 1	24	1,519	63.3
	„ 2	59	2,585	43.8
Iceland	„ 1	177	10,471	59.2
Newfoundland	„ 1	1	19	19.0
Total		889	30,976	34.8
<i>Pacific North:—</i>				
California	No. 1	10	287	28.7
	„ 2	6	163	27.2
Bering Sea, pelagic	„ 1	1,599	77,888	48.7
	„ 2	200	9,553	47.8
Kamtchatka, pelagic	„ 1	2,228	91,202	40.9
Kuril Islands	„ 1	1,485	34,309	23.1
Japan	„ 1	934	18,395	19.7
	„ 2	417	8,008	19.2
	„ 3	286	5,975	20.9
	„ 4	278	4,841	17.4
	„ 5	192	3,704	19.3
Ryukyu Islands	„ 1	5	100	20.0
	„ 2	8	124	15.5
	„ 3	1	25	25.0
Total		7,649	254,574	33.3
<i>Peru</i>	No. 1	3,451	75,426	21.9
	„ 2			
	„ 3			
<i>Chile</i>	No. 1	1,504	23,978	15.9
	„ 2	382	9,188	24.1
Total		1,886	33,166	17.6
<i>Australia</i>	No. 1	282	11,337	40.2

¹⁾ Barrel = 170 kg. (Barrel = abt. $\frac{1}{6}$ long ton, 1 long ton = 1,016 kg.) ²⁾ Excl. San Miguel and San Jorge.

Table No. 11.—Whale foetuses measured in the summer season 1960.

Blue-whale foetuses.

Geographical areas.	Date when measured.	Length.		Sex.	Geographical areas.	Date when measured.	Length.		Sex.
		Mother.	Foetus.				Mother.	Foetus.	
		Engl. ft.	Engl. ft.				Engl. ft.	Engl. ft.	
<i>Bering Sea</i>	6/7	83	9' 10"	M	<i>Bering Sea</i>	11/7	83	9' 7"	M
Average length of foetuses:	7/7	80	7' 9"	M	cont.)	"	80	6' 11"	M
8' 9"	"	84	8' 0"	F		12/7	79	6' 7"	M
	8/7	80	11' 6"	M		13/7	78	8' 7"	F
	"	77	7' 5"	M		15/7	80	9' 6"	F
	9/7	80	10' 6"	F		18/7	82	9' 0"	M
	10/7	80	8' 11"	F					

Fin-whale foetuses.

<i>Natal</i>					<i>Bering Sea</i>				
Average length of foetuses:	1/7	72	12' 0"	M	cont.)	30/5	60	2' 0"	F
4' 5"	16/7	72	13' 0"	F		31/5	63	3' 9"	F
	4/8	75	0' 4 1/2"	F		"	61	3' 9"	F
	5/8	68	0' 5"	M		"	66	5' 5"	M
	1/9	77	0' 3 3/4"	?		1/6	64	1' 2"	F
	15/9	75	0' 7"	M		"	67	5' 3"	F
<i>Cape Province</i>						"	58	2' 6"	M
Average length of foetuses:	20/7	75	12' 0"	F		"	64	6' 3"	M
14' 0"	31/7	78	8' 0"	M		"	64	4' 5"	F
	12/8	76	22' 0"	F		2/6	61	1' 6"	M
<i>Norway</i>						"	65	5' 4"	M
	25/7	68	8' 0"	F		"	63	3' 3"	M
<i>Iceland</i>						"	63	3' 3"	M
Average length of foetuses:	3/6	66	5' 0"	M		4/6	67	8' 6"	M
7' 8"	7/6	69	4' 0"	F		5/6	68	5' 4"	M
	12/6	67	1' 6"	F		"	65	1' 9"	M
	10/7	61	4' 6"	F		"	62	1' 0"	M
	20/8	66	9' 0"	F		6/6	66	4' 8"	F
	26/8	72	13' 0"	M		"	63	4' 6"	M
	16/9	71	16' 6"	M		"	62	2' 9"	F
<i>California</i>						"	67	7' 3"	M
Average length of foetuses:	5/5	56	1' 6"	F		"	68	3' 11"	F
7' 6"	3/7	67	1' 6"	F		"	68	1' 8"	M
	10/8	69	9' 0"	M		7/6	66	2' 11"	M
	18/8	67	12' 0"	F		"	66	5' 3"	M
	30/8	70	14' 0"	F		8/6	59	4' 2"	M
	12/9	62	7' 0"	M		"	66	6' 11"	M
<i>Bering Sea</i>						"	64	5' 1"	M
Average length of foetuses:	27/5	60	3' 8"	F		"	59	0' 11"	F
5' 7"	"	64	5' 11"	M		"	61	2' 6"	F
	"	65	4' 7"	M		10/6	63	3' 2"	M
	"	64	3' 11"	M		"	70	7' 10"	F
	"	63	6' 7"	F		"	66	4' 9"	M
	"	66	5' 7"	M		12/6	63	6' 1"	F
	28/5	61	2' 1"	F		"	68	3' 7"	M
	"	66	4' 2"	M		13/6	64	1' 8"	M
						"	57	2' 4"	M
						14/6	64	5' 2"	F
						"	57	0' 7"	M
						"	59	5' 1"	F
						"	58	4' 4"	F
						15/6	61	1' 11"	M

Table No. 11 (continued).

Geographical areas.	Date when measured.	Length.		Sex.	Geographical areas.	Date when measured.	Length.		Sex.
		Mother.	Foetus.				Mother.	Foetus.	
		Engl. ft.	Engl. ft.				Engl. ft.	Engl. ft.	
<i>Bering Sea</i> (cont.).	15/6	58	4' 2"	F	<i>Bering Sea</i> (cont.).	28/6	61	6' 3"	F
	"	60	5' 7"	F		"	65	8' 9"	M
	"	66	5' 9"	F		"	69	7' 3"	M
	16/6	64	3' 3"	M		29/6	61	3' 9"	M
	17/6	65	2' 3"	F		"	62	8' 0"	M
	"	64	6' 7"	M		30/6	63	3' 10"	F
	"	64	4' 4"	F		"	67	5' 7"	F
	18/6	67	7' 3"	M		1/7	61	4' 8"	F
	"	59	4' 5"	M		"	59	4' 6"	F
	"	65	2' 6"	M		"	63	6' 1"	M
	"	60	3' 10"	F		"	69	5' 7"	M
	"	62	5' 0"	M		"	67	8' 10"	M
	19/6	65	7' 7"	F		"	68	6' 7"	M
	"	69	7' 3"	M		"	67	8' 0"	F
	"	62	1' 6"	F		"	66	7' 7"	M
	"	70	5' 8"	F		"	64	3' 9"	M
	20/6	66	4' 11"	F		2/7	64	7' 3"	M
	"	65	6' 3"	F		"	62	5' 4"	F
	"	69	5' 10"	F		"	61	7' 7"	F
	"	65	7' 1"	F		3/7	66	3' 5"	F
	"	62	3' 7"	M		"	65	4' 11"	M
	21/6	60	4' 11"	F		"	66	4' 3"	F
	"	64	4' 0"	F		"	60	4' 3"	F
	"	64	5' 5"	M		5/7	66	7' 7"	F
	"	69	6' 4"	M		"	67	6' 0"	F
	"	65	6' 2"	M		"	68	6' 5"	F
	"	65	4' 5"	F		"	65	6' 6"	M
	22/6	61	2' 7"	M		"	63	6' 7"	F
	"	62	2' 6"	F		"	64	6' 11"	F
	23/6	69	7' 10"	F		6/7	59	5' 11"	M
	"	58	5' 1"	M		8/7	65	5' 0"	M
	"	68	6' 9"	F		"	67	10' 2"	M
	"	62	4' 6"	M		9/7	67	2' 7"	F
	"	64	4' 0"	M		11/7	65	8' 3"	F
	"	65	8' 0"	F		12/7	66	4' 9"	M
	"	67	4' 3"	M		"	67	6' 11"	F
	"	68	5' 7"	F		"	65	4' 10"	F
	"	66	4' 4"	M		13/7	60	8' 2"	F
	"	68	4' 3"	F		14/7	58	4' 4"	M
	24/6	70	1' 4"	M		16/7	65	5' 2"	M
	"	63	6' 6"	M		19/7	65	8' 11"	F
	25/6	59	1' 10"	M		"	65	4' 2"	M
	"	66	5' 3"	F		21/7	59	4' 7"	F
	"	63	2' 4"	M		22/7	64	6' 4"	M
	26/6	60	6' 3"	M		"	67	9' 4"	M
	"	61	5' 7"	M		23/7	64	9' 6"	M
	"	65	7' 3"	F		24/7	60	2' 9"	M
	"	65	6' 1"	F		"	60	7' 11"	F
	"	66	3' 3"	M		"	64	5' 10"	M
	"	64	5' 3"	M		"	57	7' 5"	F
27/6	68	6' 4"	M	25/7	71	10' 10"	F		
"	66	6' 5"	M	"	66	12' 10"	M		
"	60	3' 9"	M	"	69	12' 8"	M		
"	60	4' 5"	M	"	60	5' 9"	F		
"	66	3' 7"	F	26/7	62	5' 5"	M		
28/6	67	2' 7"	F	"	65	6' 7"	F		
"	60	9' 6"	F	"	65	9' 9"	M		
"	64	7' 7"	M	"	66	5' 10"	F		

Table No. 11 (continued).

Geographical areas.	Date when measured.	Length.		Sex.	Geographical areas.	Date when measured.	Length.		Sex.
		Mother.	Foetus.				Mother.	Foetus.	
<i>New Zealand</i> (cont.).	19/7	44	14' 0"	F	<i>New Zealand</i> (cont.).	22/7	41	11' 7"	M
	"	45	14' 7"	F		23/7	48	13' 3"	F
	20/7	41	9' 11"	F		26/7	42	13' 5"	M
	"	42	11' 8"	F		27/7	45	10' 9"	M
	21/7	42	13' 5"	M					

Sei-whale foetuses.

<i>Natal</i> Average length of foetuses: 2' 9"	7/6	51	10' 0"	F	<i>Bering Sea</i> (cont.).	4/7	49	6' 7"	F
	5/9	54	0' 9"	M		"	47	5' 11"	F
	"	49	1' 0"	M		"	51	6' 11"	M
	9/9	48	1' 0"	F		"	49	4' 7"	F
	12/9	50	1' 2"	M		"	51	2' 6"	F
<i>Cape Province</i> Average length of foetuses: 3' 4"	30/5	53	9' 0"	M	5/7	50	6' 1"	F	
	26/8	52	9' 0"	M	"	46	5' 5"	M	
	14/9	53	1' 6"	M	8/7	47	6' 3"	M	
	"	51	0' 10"	M	"	52	7' 1"	F	
	"	46	1' 6"	F	"	52	4' 5"	M	
	"		1' 0"	F	9/7	49	6' 9"	F	
	3/10	49	1' 8"	F	"	49	5' 11"	M	
	24/10	53	3' 0"	F	11/7	53	6' 4"	M	
<i>Iceland</i>	2/9	44	9' 0"	F	13/7	48	6' 5"	F	
					14/7	47	7' 7"	F	
					"	50	6' 9"	M	
<i>California</i> Average length of foetuses: 5' 5"	26/7	49	4' 0"	M	"	48	3' 10"	M	
	25/8	44	5' 0"	M	"	49	6' 0"	M	
	"	48	9' 0"	F	"	48	5' 5"	M	
	26/8	44	3' 8"	M	"	49	6' 1"	F	
					15/7	50	8' 8"	F	
					"	53	8' 2"	F	
					"	51	8' 4"	F	
<i>Japan</i> Average length of foetuses: 9' 0"	2/6	43	8' 0"	F	"	52	6' 9"	F	
	14/6	45	6' 0"	M	16/7	48	7' 4"	M	
	14/9	40	12' 0"	F	"	48	7' 11"	M	
	17/9	42	10' 0"	F	"	47	5' 1"	F	
					17/7	47	5' 10"	M	
<i>Bering Sea</i> Average length of foetuses: 6' 2"	4/7	47	5' 11"	M	"	46	4' 10"	F	
	"	49	4' 11"	M	19/7	51	9' 2"	F	
	"	47	4' 7"	M	"	48	6' 1"	M	
	"	51	6' 7"	F	"	48	5' 10"	F	
	"	45	5' 9"	F	"	51	7' 6"	F	
	"	52	7' 1"	M	"	47	4' 6"	M	
				<i>Kamtschatka</i>	14/8	49	6' 7"	M	
				<i>Kuril Islands</i>	12/6	40	8' 0"	F	

Sperm-whale foetuses.

<i>Natal</i> Average length of foetuses: 4' 11"	4/4	35	2' 0"	F	<i>Natal</i> (cont.).	10/5	35	1' 6"	F
	14/4	35	11' 0"	F		"	36	1' 6"	M
	"	36	2' 6"	F		"	36	3' 6"	F
	6/5	36	4' 0"	M		13/5	36	10' 0"	F
	"	37	5' 0"	F		20/5	35	4' 0"	F
	"	37	5' 0"	F		"	36	2' 0"	F
	7/5	35	1' 6"	M		29/5	36	4' 6"	M

Table No. 11 (continued).

Geographical areas	Date when measured.	Length.		Sex.	Geographical areas.	Date when measured.	Length.		Sex.	
		Mother.	Foetus.				Mother.	Foetus.		
<i>Kuril Islands</i> (cont.).		Engl. ft.	Engl. ft.		<i>Kuril Islands</i> (cont.).		Engl. ft.	Engl. ft.		
	8/8	36	1' 4"	M		18/9	36	2' 0"	M	
	12/8	39	3' 11"	F		19/9	36	13' 2"	F	
	18/9	35	3' 3"	M		6/10	35	4' 7"	M	
	"	35	2' 7"	F						
	"	35	4' 0"	M						
	"	36	3' 3"	M	<i>Australia</i>	31/5	35	3' 8"	?	

Bryde-whale foetuses.

Geographical areas	Date when measured.	Length.		Sex.
		Mother	Foetus	
<i>Cape Province</i> Average length of foetuses: 6' 6"		Eng. ft.	Eng. ft.	
	16/10	51	9' 0"	M
	17/10	52	1' 7"	M
	"	52	9' 0"	M

