

DET NORSKE HVALRÅDS STATISTISKE PUBLIKASJONER

INTERNATIONAL
WHALING STATISTICS

IX

EDITED BY

THE COMMITTEE FOR WHALING STATISTICS
APPOINTED BY THE NORWEGIAN GOVERNMENT



OSLO 1937

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PREFACE

The Committee published separate figures for the whaling in the Antarctic for the season 1935/36 in "International Whaling Statistics VIII". In the present publication, International Whaling Statistics IX, we present the statistics for the whaling in other areas in 1936. Volume IX thus gives a review of the whaling in conformity with the volumes I-VII of the International Whaling Statistics.

Oslo, June 22, 1937.

Gunnar Jahn.

Johan Hjort.

Harald B. Paulsen.

INTRODUCTION

The number of whales killed in all areas was in the last season 44,782, the largest number ever recorded. As mentioned in No. VIII of International Whaling Statistics, the number of whales killed in the Antarctic in the season 1935/36 was lower than in 1934/35. Consequently, more whales have been killed in the areas outside the Antarctic in 1936 than in 1935. In table a. are given the figures of whales killed in all areas in the seasons 1919/20-1935/36.

Table a.—Whales caught in the different areas.

Years.	All areas.	Antarctic.	Arctic.	Africa.	Pacific, north.	Japan.	Kamtchatka	Others.
1919-20	11,369	5,441	1,456	1,310	1,763	1,279	—	120
1920-21	12,174	8,448	310	1,263	129	1,487	—	537
1921-22	13,940	7,023	918	2,335	1,356	1,506	—	802
1922-23	18,120	9,910	1,204	3,105	1,363	1,422	—	1,116
1923-24	16,839	7,271	1,667	3,649	1,102	1,526	—	1,624
1924-25	23,253	10,488	1,523	4,384	1,892	1,875	—	3,091
1925-26	28,193	14,219	1,588	4,646	1,804	2,148	—	3,788
1926-27	24,175	12,665	1,403	4,144	2,064	1,546	—	2,353
1927-28	23,524	13,775	1,561	3,835	1,412	1,607	—	1,334
1928-29	27,896	20,341	1,159	3,362	1,241	1,463	—	330
1929-30	37,674	30,167	1,472	3,498	975	1,312	—	250
1930-31	42,874	40,201	703	823	—	1,147	—	—
1931-32	12,797	9,572	827	1,043	319	1,036	—	—
1932-33	28,668	24,327	1,004	1,168	591	1,122	203	253
1933-34	32,167	26,087	583	2,392	1,019	1,436	339	311
1934-35	39,254	31,808	568	3,004	855	1,787	487	745
1935-36	44,782	30,991	705	3,768	857	1,840	501	6,120

From this table we learn that the areas outside the Antarctic were of great importance up to 1928/29. In table b. we have given the percentage of whales killed in the Antarctic and in other areas from the season 1928/29.

Table b.—Whales caught in the Antarctic and other areas.

Years.	All areas.	Antarctic.		Other areas.	
		Number.	Per cent.	Number.	Per cent.
1928-29.....	27,896	20,341	72.9	7,555	27.1
1929-30.....	37,674	30,167	80.1	7,507	19.9
1930-31.....	42,874	40,201	93.8	2,673	6.2
1931-32.....	12,797	9,572	74.8	3,225	25.2
1932-33.....	28,668	24,327	84.9	4,341	15.1
1933-34.....	32,167	26,087	81.1	6,080	18.9
1934-35.....	39,254	31,808	81.0	7,446	19.0
1935-36.....	44,782	30,991	69.2	13,791	30.8

This table shows that the percentage in 1935/36 of the whaling outside the Antarctic was larger than in the former years here recorded. The importance of this whaling is, as a source of oil production, less than indicated by the percentage of whales killed. This is shown in the following table c., where the oil production in the Antarctic and in other areas is compared.

Table c.—Oil production 1928/29–1935/36.

Years.	All areas. Barrels. ¹⁾	Antarctic.		Other areas.	
		Number of barrels.	Per cent.	Number of barrels.	Per cent.
1928–29.....	1,886,082	1,631,340	86.5	254,742	13.5
1929–30.....	2,799,042	2,546,759	91.0	252,283	9.0
1930–31.....	3,686,976	3,608,348	97.9	78,628	2.1
1931–32.....	915,842	808,560	88.3	107,282	11.7
1932–33.....	2,596,778	2,456,462	94.6	140,316	5.4
1933–34.....	2,573,155	2,395,544	93.1	177,611	6.9
1934–35.....	2,691,283	2,453,999	91.2	237,284	8.8
1935–36.....	2,871,117	2,436,338	84.9	434,779	15.1

¹⁾ Barrel = $\frac{1}{6}$ ton (1 ton = 1,016 kg.).

From these two tables we learn that in 1935/36 30.8 per cent of all whales were killed outside the Antarctic, whereas only 15.1 per cent of the oil production was due to the catch in these areas. The oil production per whale is thus smaller in the areas outside the Antarctic. This is partly due to the different composition by species of whales killed in the Antarctic and in the other areas, and partly to the fact that the output of oil is less for nearly all the species of whales killed in tropical waters than for whales killed in the Antarctic. We also emphasize that many of the whales killed in the areas outside the Antarctic are not only used for oil production.

In the total oil production in 1935/36—2,871,117 barrels—sperm-oil is included. The total production of oil and of sperm-oil separately on the different grounds is given in table d.

Table d.—Oil production in 1935/36 and summer-season 1936.

Grounds.	Total oil production.		Grounds.	Total oil production.	
	Barrels.	Of which sperm-oil. Barrels.		Barrels.	Of which sperm-oil. Barrels.
Sum Antarctic 1935/36 .	2,436,338	23,755	<i>Atlantic and Arctic:—</i>		
Sum outside Antarctic			Portugal (Azores)	—	—
1936	434,779	138,204	Coast of Norway.....	7,997	1,092
Total	2,871,117	161,959	Faroe Islands.....	2,972	572
of which			Iceland	3,415	257
Norwegian production	1,162,742	19,741	Coast of West Greenland	—	—
British production....	1,238,688	101,387	New Foundland.....	7,186	914
Prod. of other countries	469,687	40,831	<i>Pacific (north):—</i>		
<i>South Georgia</i>	143,185	126	Alaska	17,325	3,873
<i>Antarctic, others,</i>			British Columbia.....	16,969	15,237
(pelagic whaling).....	2,293,153	23,629	California.....	2,602	112
<i>Coast of Africa:—</i>			<i>Coast of Peru</i>	61,853	49,880
Coast of Natal.....	64,570	26,908	<i>Coast of Chile</i>	8,789	2,640
Cape Colony.....	31,799	4,350	<i>Coast of Kamtchatka</i>	18,238	5,421
Coast of Congo	38,712	1,367	<i>Japan and Corea</i>	30,144	25,031
			<i>Coast of West Australia</i> ..	122,208	550

The production of sperm-oil is of considerable importance in the areas outside the Antarctic. Of the total production of oil in those areas—434,779 barrels—138,204 barrels were sperm-oil.

Whaling outside the Antarctic has in 1936 been carried on in the North Atlantic and Arctic, off the Azores, off the coast of Africa, in the Pacific North, off Japan, Kamtchatka, Chile and Peru and West Australia.

The whaling in the North Atlantic and Arctic is not of very great importance. In 1936 there were killed 705 whales—137 more than in 1935. Table e. gives the catch distributed by species and grounds for the years 1931–1936.

Table e.—North Atlantic and Arctic.

Grounds.	Years.	Species of whales caught.							Oil production.	Expeditions.			
		Bluc.	Fin.	Hump-back.	Sei.	Spermi.	Others.	Total of whales.		Shore stations.	Float-ing fac-tories.	Catch-es.	
<i>North Atlantic and Arctic. Total</i>	1931	54	541	43	60	5	—	703	25,268	2	2	14	
	1932	62	658	14	83	6	²⁾ 4	827	28,590	3	2	17	
	1933	59	854	9	29	53	—	1,004	34,833	3	3	19	
	1934	25	357	5	185	11	—	583	16,038	3	1	13	
	1935	10	385	17	125	25	¹⁾ 6	568	15,341	7	—	17	
	1936	31	445	15	158	47	¹⁾ 9	705	21,570	8	—	20	
<i>Faroe Islands.</i>	1933	6	91	—	7	3	—	107	3,243	1	—	2	
	1934	2	74	—	13	7	—	96	3,013	1	—	2	
	1935	3	75	2	3	5	—	88	2,997	1	—	2	
	1936	2	65	—	1	9	—	77	2,972	1	—	3	
<i>Iceland.</i>	1935	2	25	—	1	—	—	28	691	1	—	2	
	1936	5	72	—	1	7	—	85	3,415	1	—	2	
<i>Coast of Norway.</i>	1931	2	69	—	52	5	—	128	3,399	2	—	6	
	1932	23	190	1	59	6	—	279	8,431	3	—	9	
	1933	7	197	1	22	9	—	236	6,585	2	—	6	
	1934	—	132	—	172	4	—	308	6,305	2	—	6	
	1935	1	106	—	108	4	¹⁾ 6	225	4,488	3	—	10	
	1936	4	147	—	154	17	¹⁾ 9	331	7,997	4	—	12	
<i>Pelagic whaling in Arctic.</i>	1931	52	456	39	8	—	—	555	21,869	—	2	7	
	1932	38	443	9	24	—	²⁾ 4	518	20,159	—	2	7	
	1933	43	549	7	—	41	—	640	25,005	—	3	10	
	1934	21	128	3	—	—	—	152	6,720	—	1	4	
<i>Coast of West Greenland.</i>	1931	—	16	4	—	—	—	20	—	—	—	1	
	1932	1	25	4	—	—	—	30	—	—	—	1	
	1933	3	17	1	—	—	—	21	—	—	—	1	
	1934	2	23	2	—	—	—	27	—	—	—	1	
	1935	—	23	6	—	—	—	29	—	—	—	—	
	1936	—	15	5	—	—	—	20	—	—	—	—	
<i>New Foundland.</i>	1935	4	156	9	13	16	—	198	7,165	2	—	3	
	1936	20	146	10	2	14	—	192	7,186	2	—	3	

¹⁾ Different kinds of small whales. ²⁾ Right-whales.

According to this table whaling has been carried on in the same areas in 1936 as in 1935. The table shows a rise in the number of whales killed off Iceland and off the coast of Norway. The number of whales killed has declined for the Faroe Islands and for the coast of West Greenland and New Foundland. No pelagic whaling has been carried on in the Arctic in 1935 and 1936. The principal species killed on these grounds are fin-whales, 445 of 705 whales killed. Then come 158 sei-whales. Of sperm-whales there were killed 47, of blue-whales 31 and of humpbacks 15.

The figures for the African whaling from 1931 are given in table f. by species and hunting grounds.

Table f.—Africa.

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>Africa. Total.</i>	1931	122	466	71	29	135	—	823	37,086	1	—	10	
	1932	109	345	309	23	256 ¹⁾	1	1,043	44,112	1	—	8	
	1933	85	602	162	11	306 ¹⁾	2	1,168	53,000	2	—	14	
	1934	71	557	1,238	57	467 ¹⁾	2	2,392	82,359	3	—	21	
	1935	122	526	1,659	100	595 ¹⁾	2	3,004	117,950	2	3	27	
	1936	120	1,095	1,168	305	1,073 ²⁾	7	3,768	135,081	3	3	43	
<i>Coast of Natal.</i>	1931	122	466	71	29	135	—	823	37,086	1	—	10	
	1932	109	345	309	23	256 ¹⁾	1	1,043	44,112	1	—	8	
	1933	85	602	162	11	306 ¹⁾	2	1,168	53,000	2	—	14	
	1934	70	536	514	30	422 ¹⁾	2	1,574	60,924	2	—	17	
	1935	122	526	418	90	595 ¹⁾	2	1,753	67,008	2	—	17	
	1936	41	528	301	68	911	—	1,849	64,570	2	—	18	
<i>Cape Colony.</i>	1936	79	566	27	214	108 ²⁾	7	1,001	31,799	1	—	14	
<i>Coast of Congo.</i>	1934	1	21	724	27	45	—	818	21,435	1	—	4	
	1935	—	—	1,241	10	—	—	1,251	50,942	—	3	10	
	1936	—	1	840	23	54	—	918	38,712	—	3	11	

¹⁾ Right-whales. ²⁾ Bryde-whales.

The number of whales killed off Africa has gone up in the last six seasons. The African whaling was in 1931–33 only carried on off the coast of Natal, in the years 1934–36 off the coast of Natal and of Congo and in 1936 also off the coast of the Cape Colony. The rise in the number of whales killed in the last season is principally due to the catch off the coast of the Cape Colony. The catch off the coast of Natal has gone up in 1936, while the catch off the coast of Congo has declined. The principal species of whales killed off Africa in 1936 are humpbacks—1,168—, fin-whales—1,095—and sperm-whales—1,073. Of sei-whales there were killed 305, of blue-whales 120 and of Bryde-whales 7.

In the Pacific North there were killed 857 whales in 1936, practically the same number as in 1935. The specification of the whales killed by species and hunting grounds is given in table g.

Table g.—Pacific North.

Grounds.	Years.	Species of whales caught.							Oil production.	Expeditions.			
		Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.	Total of whales.		Shore stations.	Float-ing fac-tories.	Catch-ers.	
<i>Pacific North. Total.</i>	1933	1	17	1	—	190 ¹⁾	382	591	24,080	2	1	9	
	1934	—	—	—	—	—	1,019 ¹⁾	1,019	43,100	4	1	15	
	1935	140	117	148	6	253 ²⁾	191	855	38,784	3	2	16	
	1936	44	208	132	—	377 ¹⁾	96	857	36,896	4	1	15	
<i>Alaska.</i>	1933	—	—	—	—	—	182 ¹⁾	182	6,420	1	—	3	
	1934	—	—	—	—	—	464 ¹⁾	464	18,600	2	—	7	
	1935	87	94	141	—	70 ³⁾	2	394	19,485	2	—	7	
	1936	41	160	118	—	66	—	385	17,325	2	—	7	
<i>British Columbia.</i>	1933	1	17	1	—	190	—	209	11,500	1	—	4	
	1934	—	—	—	—	—	350 ¹⁾	350	18,300	2	—	6	
	1935	6	20	1	—	175	—	202	10,334	1	—	4	
	1936	3	48	14	—	311	—	376	16,969	2	—	6	
<i>California.</i>	1933	—	—	—	—	—	200 ¹⁾	200	6,160	—	1	2	
	1934	—	—	—	—	—	205 ¹⁾	205	6,200	—	1	2	
	1935	—	—	—	—	—	189 ¹⁾	189	5,144	—	1	2	
	1936	—	—	—	—	—	96 ¹⁾	96	2,602	—	1	2	
<i>Coast of Mexico.</i>	1935	47	3	6	6	8	—	70	3,821	—	1	3	

¹⁾ No specification. ²⁾ 2 right-whales and 189 without specification. ³⁾ Right-whales.

In the last year the whaling has been carried on off Alaska, British Columbia and California. The principal species killed are sperm-whales—377—, fin-whales—208— and humpbacks—132. Of blue-whales there were killed 44. The catch off California—96 whales—is not specified by species.

In the last three seasons more and more whales have been killed off the coast of Japan and Corea. The whaling by species of whales killed is given in table h.

Table h.—Japan.

Grounds.	Years.	Species of whales caught.							Oil production.	Expeditions.			
		Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.	Total of whales.		Shore stations.	Float-ing fac-tories.	Catch-ers.	
<i>Japan and Corea.</i>	1931	20	337	70	418	283 ¹⁾	19	1,147	16,274	—	—	20	
	1932	17	270	90	370	268 ²⁾	21	1,036	20,230	—	—	20	
	1933	10	299	89	388	331 ³⁾	5	1,122	21,698	—	—	ca.20	
	1934	21	287	59	298	357 ⁴⁾	414	1,436	22,766	—	—	21	
	1935	21	273	70	380	479 ⁴⁾	564	1,787	29,178	—	—	21	
	1936	3	241	72	348	549 ⁴⁾	627	1,840	30,144	17	—	23	

¹⁾ 11 grey-whales and 8 right-whales. ²⁾ 7 grey-whales and 14 right-whales. ³⁾ 2 grey-whales and 3 right-whales. ⁴⁾ No specification.

The principal species killed are sperm-whales—549—, sei-whales—348— and fin-whales—241. There have been killed 72 humpbacks and 3 blue-whales. We have got no specification for 627 whales.

In the last years whaling has been carried on off Kamtchatka. In 1936 there were killed 501 whales, the specification of which is given in table i.

Table i.—Kamtchatka.

Years	Species of whales caught.							Oil production.	Expeditions.		
	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.	Total of whales.		Shore stations.	Floating factories.	Catchers.
1933	—	—	—	—	—	¹⁾ 203	203	Barrels. 6,705	—	1	3
1934	2	150	51	1	74	²⁾ 61	339	12,168	—	1	3
1935	1	206	143	—	—	³⁾ 137	487	19,398	—	1	3
1936	5	210	68	—	113	⁴⁾ 105	501	18,238	—	1	3

¹⁾ No specification, mostly fin-whales. ²⁾ 54 grey-whales, 6 bottlenoses and 1 «Minke-whale». ³⁾ No specification. ⁴⁾ 102 grey-whales and 3 without specification.

The principal species killed in 1936 were fin-whales—210—, sperm-whales—113— and grey-whales—102. Of humpbacks there were killed 68, of blue-whales 5 and for 3 whales there is no specification.

In the last 4 years whaling on a small scale has been carried on off the Azores, the particulars of which are given in table j.

Table j.—Portugal (Azores).

Years	Species of whales caught.							Oil production.	Expeditions.		
	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.	Total of whales.		Shore stations.	Floating factories.	Catchers.
1933	—	—	—	—	77	¹⁾ 176	253	Barrels. —	—	—	²⁾ —
1934	—	—	—	—	82	¹⁾ 158	240	—	—	—	²⁾ —
1935	—	—	—	—	136	³⁾ 140	276	—	—	—	²⁾ —
1936	—	—	—	—	172	³⁾ 308	⁴⁾ 480	—	—	—	²⁾ —

¹⁾ Different kinds of small whales. ²⁾ Whaling is carried on with row-boats on old lines. ³⁾ No specification. ⁴⁾ The whales have been caught during the period ¹⁾/₉ 1935—³¹⁾/₁₂ 1936.

There is a considerable rise in the number of whales killed off the coast of Chile and Peru. A specification of the catch is given in table k.

Table k.—Coast of Chile and Peru.

Years	Species of whales caught.							Oil production.	Expeditions.		
	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.	Total of whales.		Shore stations.	Floating factories.	Catchers.
1927	199	294	22	—	156	¹⁾ 260	931	Barrels. 36,920	1	1	10
1928	—	—	—	—	—	¹⁾ ca. 300	ca. 300	14,019	1	—	4
1929	—	—	—	—	—	¹⁾ ca. 330	ca. 330	18,234	1	—	4
1930	—	—	—	—	—	¹⁾ ca. 250	ca. 250	12,364	1	—	4
1935	40	71	29	85	173	²⁾ 71	469	16,633	3	1	5
1936	174	235	18	10	2,109	³⁾ 1	2,547	70,642	2	2	19

¹⁾ No specification. ²⁾ Different kinds of small whales and 36 right-whales. ³⁾ Right-whale.

The rise in the catch is caused by the whaling off Peru, which has been carried on by 2 floating factories with 16 catchers. The principal catch on these grounds has in the last season been sperm-whales — 2,109 of the total of 2,547.

The whaling off the coast of West Australia was carried on in the years 1925—1928, but no whaling took place in the years 1929—1935. In 1936 2 companies with 2 floating factories and 12 catchers carried on whaling on these grounds. The result of the whaling by the species of whales is given in table 1. The total of whales killed were 3,093, almost exclusively humpbacks.

Table 1.—Coast of West Australia.

Years	Species of whales caught.							Oil production.	Expeditions.		
	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.	Total of whales.		Shore stations.	Floating factories.	Catchers.
1925	—	—	669	—	—	—	669	Barrels. 19,300	1	—	3
1926	5	—	735	—	—	—	740	21,300	1	—	3
1927	3	—	996	—	—	—	999	32,179	1	—	4
1928	1	—	1,033	—	—	—	1,034	35,340	1	—	4
1936	—	7	3,072	—	14	—	3,093	122,208	—	2	12

A survey of the whales killed classified by sex in some of the areas outside the Antarctic is given in table m.

Table m.—Sex of whales caught.

Kind of whale and whaling grounds.		1936.	1935.	1934.	1933.	1932.
Blue-whales.						
<i>Coast of Africa</i>	Males.....	34	59	30	35	53
	Females.....	45	63	40	50	56
	Total animals.....	79	122	70	85	109
	Males per 100 females...	76	94	75	70	95
Fin-whales.						
<i>Coast of Africa</i>	Males.....	293	297	306	354	194
	Females.....	273	229	230	248	151
	Total animals.....	566	526	536	602	345
	Males per 100 females...	107	130	133	143	128
<i>North Atlantic and Arctic</i>	Males.....	211	92	154	454	232
	Females.....	234	110	180	375	209
	Total animals.....	445	202	334	829	441
	Males per 100 females...	90	84	86	121	111
Humpbacks.						
<i>Coast of Africa</i>	Males.....	378	935	—	—	—
	Females.....	489	724	—	—	—
	Total animals.....	867	1,659	—	—	—
	Males per 100 females...	77	129	—	—	—
<i>Coast of West Australia</i>	Males.....	2,138	—	—	—	—
	Females.....	934	—	—	—	—
	Total animals.....	3,072	—	—	—	—
	Males per 100 females...	229	—	—	—	—

The average size of blue-whales, fin-whales and humpbacks for some of the areas outside the Antarctic is given in table n.

Table n.—Average size of whales caught.

Kind of whale and whaling grounds.	1935-1936.	1934-1935.	1933-1934.	1932-1933.	1931-1932.	1930-1931.	1929-1930.
	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.
Blue-whales.							
Coast of Africa:—							
Natal.....	—	67.43	67.06	67.21	66.67	65.34	69.38
Hanglip.....	} 69.04	—	—	—	—	—	68.18
Saldanha Bay.....		—	—	—	—	—	66.80
Walvis Bay.....	—	—	—	—	—	—	66.53
North Atlantic and Arctic:							
Pelagic whaling.....	—	—	75.33	74.24	73.47	75.73	73.42
Faroe Islands.....	—	64.00	—	—	—	—	—
New Foundland.....	70.70	—	—	—	—	—	—
Alaska.....	77.41	—	—	—	—	—	74.21
Coast of Mexico.....	—	65.57	—	—	—	—	—
Coast of Peru.....	73.00	—	—	—	—	—	—
Fin-whales.							
Coast of Africa:—							
Natal.....	—	60.70	60.03	60.02	59.69	58.59	62.16
Hanglip.....	} 57.02	—	—	—	—	—	59.62
Saldanha Bay.....		—	—	—	—	—	—
Walvis Bay.....	—	—	—	—	—	—	55.18
North Atlantic and Arctic:							
Pelagic whaling.....	—	—	61.66	62.35	63.38	62.31	60.36
Whaling from coast....	60.66	59.23	59.65	59.40	—	—	60.16
Alaska and Br. Columbia.	59.23	—	56.44	—	—	—	55.93
Coast of Mexico.....	—	59.33	—	—	—	—	—
Coast of Peru.....	57.65	—	—	—	—	—	—
Japan and Corea.....	—	—	—	—	—	—	55.15
Humpbacks.							
Coast of Africa:—							
Natal.....	—	36.51	—	—	—	—	—
Cape Colony.....	40.59	—	—	—	—	—	—
Coast of Congo.....	39.13	36.66	—	—	—	—	—
Alaska.....	40.67	—	—	—	—	—	—
Coast of West Australia..	38.75	—	—	—	—	—	—

The distribution of the whaling by countries is given in table 5, page 15 and the following table o. gives a survey of the Norwegian whaling, the British whaling and the whaling of other countries for a series of years.

Table o. shows that the result of the whaling of other countries is more than doubled in the season 1935/36. This development of the whaling of other countries is mainly restricted to Japan, Panama and the United States. The development of the whaling of the 2 first countries has taken place in the Antarctic and that of the United States in West Australia.

Table o.

Years.	Norwegian whaling.		British whaling.		Whaling of other countries.	
	Number of whales.	Oil production.	Number of whales.	Oil production.	Number of whales.	Oil production.
		Barrels. ¹⁾		Barrels.		Barrels.
1919-20	4,590	210,659	3,378	137,448	3,401	59,220
1920-21	6,240	278,590	3,300	141,367	2,634	51,184
1921-22	6,157	332,039	4,105	196,086	3,678	111,151
1922-23	8,738	439,401	5,675	286,265	3,707	91,648
1923-24	7,180	366,963	5,759	258,079	3,900	91,204
1924-25	12,460	597,040	6,835	347,538	3,958	95,830
1925-26	14,727	662,641	8,735	380,107	4,731	109,788
1926-27	12,754	689,425	7,248	389,087	4,173	113,410
1927-28	11,791	799,361	7,079	400,192	4,654	121,790
1928-29	14,996	1,210,235	8,230	512,611	4,670	163,236
1929-30	21,609	1,796,221	12,204	856,797	3,861	146,024
1930-31	25,952	2,316,962	13,019	1,131,231	3,903	238,783
1931-32	797	28,590	9,765	803,955	2,235	83,297
1932-33	12,644	1,317,443	12,940	1,180,526	3,084	98,809
1933-34	13,657	1,253,694	14,564	1,190,924	3,946	128,537
1934-35	16,939	1,239,327	17,476	1,288,554	4,839	163,402
1935-36	15,670	1,162,742	19,850	1,238,688	9,262	469,687

¹⁾ Barrel = 1/6 ton (1 ton = 1,016 kg.).

Oslo, June 22, 1937.

Gunnar Jahn.

Table No. 1.—Whaling in 1935/36 and summer 1936.

Geographical areas.	Species of whales caught.							Oil production.	Expeditions.		
	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.	Total of whales.		Shore stations.	Floating factories.	Catchers.
South Georgia	1,221	520	41	—	3	—	1,785	Barrel = 1/8 ton. ¹⁾ 143,185	2	—	10
Antarctic, others (pelagic whaling).	16,510	9,177	3,121	2	396	—	29,206	2,293,153	—	24	165
Coast of Africa:—											
Coast of Natal . .	41	528	301	68	911	—	1,849	64,570	2	—	18
Cape Colony . . .	79	566	27	214	108	²⁾ 7	1,001	31,799	1	—	14
Coast of Congo..	—	1	840	23	54	—	918	38,712	—	3	11
Atlantic and Arctic:											
Portugal (Azores)	—	—	—	—	172	³⁾ 308	⁴⁾ 480	—	—	—	—
Coast of Norway	4	147	—	154	17	⁵⁾ 9	331	7,997	4	—	12
Faroe Islands . . .	2	65	—	1	9	—	77	2,972	1	—	3
Iceland	5	72	—	1	7	—	85	3,415	1	—	2
Coast of West.											
Greenland.	—	15	5	—	—	—	20	—	—	—	—
New Foundland .	20	146	10	2	14	—	192	7,186	2	—	3
Pacific (north):—											
Alaska.	41	160	118	—	66	—	385	17,325	2	—	7
British Columbia	3	48	14	—	311	—	376	16,969	2	—	6
California	—	—	—	—	—	³⁾ 96	96	2,602	—	1	2
Coast of Peru	135	139	4	10	2,021	—	2,309	61,853	—	2	16
Coast of Chile. . . .	39	96	14	—	88	⁶⁾ 1	238	⁷⁾ 8,789	2	—	3
Coast of Kamtchatka	5	210	68	—	113	⁸⁾ 105	501	18,238	—	1	3
Coast of Japan and Corea.	3	241	72	348	549	³⁾ 627	1,840	30,144	17	—	23
Coast of West Australia.	—	7	3,072	—	14	—	3,093	122,208	—	2	12
Total	18,108	12,138	7,707	823	4,853	1,153	44,782	2,871,117	36	33	310

¹⁾ 1 ton = 1,016 kg. ²⁾ Bryde-whales. ³⁾ No specification. ⁴⁾ The whales have been caught during the period 1/9 1935 till 31/12 1936. ⁵⁾ Different kinds of small whales. ⁶⁾ Right-whale. ⁷⁾ The quantity of oil has been calculated as no information was to hand re. oil equivalent for the 88 sperm-whales. ⁸⁾ 102 grey-whales and 3 without specification.

Table No. 2.—Norwegian whaling in 1935/36 and summer 1936.

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..	7,349	4,873	1,908	2	289	—	14,421	Barrel = 1/8 ton. 1,116,033	—	13	82
Coast of Congo	—	1	840	23	54	—	918	38,712	—	3	11
Coast of Norway . .	4	147	—	154	17	¹⁾ 9	331	7,997	4	—	12
Total	7,353	5,021	2,748	179	360	9	15,670	1,162,742	4	16	105

¹⁾ Different kinds of small whales.

Table No. 3.—British whaling in 1935/36 and summer 1936.

Geographical areas.	Species of whales caught.							Oil production. Barrel = 1/8 ton.	Expeditions.		
	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.	Total of whales.		Shore stations.	Floating factories.	Catchers.
South Georgia.....	561	259	19	—	2	—	841	67,993	1	—	—
Antarctic, pelagic..	6,959	3,550	1,131	—	57	—	11,697	927,174	—	8	6
Coast of Natal....	41	528	301	68	911	—	1,849	64,570	2	—	1
Cape Colony.....	79	566	27	214	108	1)	7 1,001	31,799	1	—	1
New Foundland...	20	146	10	2	14	—	192	7,186	2	—	—
British Columbia..	3	48	14	—	311	—	376	16,969	2	—	—
Coast of Peru.....	135	139	4	10	2,021	—	2,309	61,853	—	2	1
Coast of West Australia.....	—	7	1,568	—	10	—	1,585	61,144	—	1	—
Total	7,798	5,243	3,074	294	3,434	7	19,850	1,238,688	8	11	13

1) Bryde-whales.

Table No. 4.—Whaling of other countries in 1935/36 and summer 1936.

Geographical areas.	Species of whales caught.							Oil production. Barrel = 1/8 ton.	Expeditions.		
	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.	Total of whales.		Shore stations.	Floating factories.	Catchers.
South Georgia.....	660	261	22	—	1	—	944	75,192	1	—	—
Antarctic, pelagic..	2,202	754	82	—	50	—	3,088	249,946	—	3	20
Portugal (Azores)..	—	—	—	—	172	1)	308 2)	480	—	—	—
Faroe Islands.....	2	65	—	1	9	—	77	2,972	1	—	—
Iceland.....	5	72	—	1	7	—	85	3,415	1	—	—
West Greenland...	—	15	5	—	—	—	20	—	—	—	—
Alaska.....	41	160	118	—	66	—	385	17,325	2	—	7
California.....	—	—	—	—	—	1)	96	96	—	1	—
Coast of Chile.....	39	96	14	—	88	3)	1 238 4)	8,789	2	—	—
Coast of Kamtchatka	5	210	68	—	113	5)	105 501	18,238	—	1	—
Coast of Japan and Corea.....	3	241	72	348	549	1)	627 1,840	30,144	17	—	23
Coast of West Australia.....	—	—	1,504	—	4	—	1,508	61,064	—	1	—
Total	2,957	1,874	1,885	350	1,059	1,137	9,262	469,687	24	6	74

1) No specification. 2) The whales have been caught during the period 1/6 1935 till 31/12 1936. 3) Right-whale.

4) The quantity of oil has been calculated as no information was to hand re. oil equivalent for the 88 sperm-whales

5) 102 grey-whales and 3 without specification.

Table No. 5.—Whaling results for the various countries in 1935/36 and summer 1936.

Countries.	Species of whales caught.							Oil production.	Expeditions.		
	Blue.	Fin.	Hump-back.	Sci.	Sperm.	Others.	Total of whales.		Shore stations.	Float-ing fac-tories.	Catch-ers.
								Barrel = 1/6 ton.			
Norway.....	7,353	5,021	2,748	179	360	¹⁾ 9	15,670	1,162,742	4	16	105
British Empire	7,798	5,243	3,074	294	3,434	²⁾ 7	19,850	1,238,688	8	11	131
Argentina.....	660	261	22	—	1	—	944	75,192	1	—	5
Chile.....	39	96	14	—	88	³⁾ 1	238	⁴⁾ 8,789	2	—	3
Denmark.....	2	80	5	1	9	—	97	2,972	1	—	3
Iceland.....	5	72	—	1	7	—	85	3,415	1	—	2
Japan.....	459	415	81	348	549	⁵⁾ 627	2,479	74,289	17	1	28
Panama.....	1,746	580	73	—	50	—	2,449	205,801	—	2	15
Portugal.....	—	—	—	—	172	⁵⁾ 308	480	—	—	—	—
Sovjet Russia.	5	210	68	—	113	⁶⁾ 105	501	18,238	—	1	3
United States.	41	160	1,622	—	70	⁵⁾ 96	1,989	80,991	2	2	15
Total	18,108	12,138	7,707	823	4,853	1,153	44,782	2,871,117	36	33	310

¹⁾ Different kinds of small whales. ²⁾ Bryde-whales. ³⁾ Right-whale. ⁴⁾ The quantity of oil has been calculated as no information was to hand re. oil equivalent for the 88 sperm-whales. ⁵⁾ No specification. ⁶⁾ 102 grey-whales and 3 without specification.

Table No. 6.—Average size of whales caught in the summer-season 1936.

Geographical areas. Number of whales measured.	Company.	Average size.		
		Males.	Females.	Total animals.
<u>A. Blue-whales.</u>				
<i>Coast of Africa:</i>				
Cape Colony.....	No. 1	66.47	70.98	69.04
Males 34 } Females 45 }	Total 79.			
<i>Atlantic and Arctic:</i>				
New Foundland.....	No. 1	71.43	72.00	71.73
Males 8 } Females 12 }	" 2	68.00	67.50	67.60
Average		71.00	70.50	70.70
<i>Pacific (north):</i>				
Alaska.....	No. 1	81.50	75.50	78.50
Males 25 } Females 16 }	" 2	75.58	79.60	76.97
Average		77.00	78.06	77.41
<i>Coast of Peru.....</i>				
Males 68 } Females 67 }	No. 1	72.30	73.85	73.05
Total 135.	" 2	71.80	73.96	72.92
Average		72.12	73.90	73.00

Table No. 6 (continued).

Geographical areas. Number of whales measured.	Company.	Average size.		
		Males.	Females.	Total animals.
		Engl. feet.	Engl. feet.	Engl. feet.
B. Fin-whales.				
<i>Coast of Africa:</i>				
Cape Colony	No. 1	56.34	57.76	57.02
Males 293 } Total 566.				
Females 273 }				
<i>Atlantic and Arctic:</i>				
Coast of Norway	No. 1	68.50	66.75	67.33
Males 68 } Total 147.	" 2	59.22	65.10	62.32
Females 79 }	" 3	60.48	62.41	61.63
	" 4	56.97	61.33	58.91
Average		59.24	62.86	61.18
Faroe Islands	No. 1	55.28	61.85	58.62
Males 32 } Total 65.				
Females 33 }				
Iceland	No. 1	62.04	64.27	63.43
Males 27 } Total 72.				
Females 45 }				
Coast of West Greenland.....	No. 1	59.83	61.56	60.87
Males 6 } Total 15.				
Females 9 }				
New Foundland	No. 1	58.95	63.34	61.10
Males 78 } Total 146.	" 2	57.63	57.85	57.73
Females 68 }				
Average		58.36	61.16	59.66
<i>Pacific (north):</i>				
Alaska	No. 1	58.24	60.61	59.29
Males 80 } Total 159.	" 2	57.35	60.88	59.20
Females 79 }				
Average		57.68	60.80	59.23
Coast of Peru	No. 1	60.52	61.15	60.76
Males 79 } Total 139.	" 2	53.54	55.33	54.41
Females 60 }				
Average		57.43	57.95	57.65

Table No. 6 (continued).

Geographical areas. Number of whales measured.	Company.	Average size.		
		Males.	Females.	Total animals.
C. Humpbacks.				
<i>Coast of Africa:</i>				
Cape Colony	No. 1	39.45	41.38	40.59
Males 11 } Total 27.				
Females 16 }				
<i>Coast of Congo, pelagic</i>				
Males 367 } Total 840.	No. 1	40.64	40.56	40.60
Females 473 }	" 2	37.62	39.03	38.42
	" 3	37.22	38.58	38.13
Average		38.81	39.37	39.13
<i>Pacific (north):</i>				
Alaska	No. 1	39.88	41.53	40.69
Males 54 } Total 106.	" 2	39.50	41.60	40.45
Females 52 }				
Average		39.83	41.54	40.67
<i>Coast of West Australia</i>				
Males 2,138 } Total 3,072.	No. 1	40.29	40.21	40.27
Females 934 }	" 2	37.13	37.59	37.30
Average		38.84	38.57	38.75

Table No. 7.—Whales caught in the summer-season 1936, by species, sex and size.

1. Cape Colony.
Blue-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
56	2	2	4	76	—	1	1
57	1	—	1	77	1	—	1
58	—	2	2	79	—	1	1
60	1	2	3	81	1	2	3
61	2	2	4	83	—	1	1
62	1	3	4	84	—	1	1
63	2	5	7	85	—	2	2
64	3	1	4	87	—	2	2
65	3	1	4	88	—	1	1
66	3	2	5	89	—	2	2
67	2	3	5				
68	4	1	5				
69	1	1	2				
70	1	2	3				
71	1	1	2				
72	3	—	3				
73	2	—	2				
74	—	1	1				
75	—	3	3				
				Sum	34	45	79
				Average size	Males: 66.47 feet Females: 70.98 " Total animals: 69.04 "		
				Per cent	Males: 43.04 Females: 56.96		

Table No. 7 (continued).

Fin-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
41	—	1	1	65	6	3	9
43	—	1	1	66	10	7	17
45	1	—	1	67	10	3	13
46	2	—	2	68	9	1	10
47	5	2	7	69	6	2	8
48	6	3	9	70	1	7	8
49	13	9	22	71	3	3	6
50	16	8	24	72	1	5	6
51	28	11	39	73	—	2	2
52	25	24	49	74	1	5	6
53	19	28	47	75	—	1	1
54	26	21	47	76	—	4	4
55	19	9	28				
56	17	19	36	Sum	293	273	566
57	17	19	36				
58	12	19	31				
59	12	12	24	Average size	{ Males: 56.34 feet Females: 57.76 " Total animals: 57.02 "		
60	7	15	22	Per cent	{ Males: 51.77 Females: 48.23		
61	8	10	18				
62	5	9	14				
63	3	4	7				
64	5	6	11				

2. Coast of Congo, pelagic.

Humpbacks.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
25	1	—	1	43	18	34	52
26	1	—	1	44	24	30	54
27	2	2	4	45	11	22	33
28	2	1	3	46	14	27	41
29	3	5	8	47	7	9	16
30	8	18	26	48	3	10	13
31	7	19	26	49	—	11	11
32	14	18	32	50	—	5	5
33	7	17	24	51	1	2	3
34	16	10	26	52	—	3	3
35	17	29	46	Sum	367	473	840
36	34	32	66				
37	22	40	62	Average size	{ Males: 38.81 feet Females: 39.37 " Total animals: 39.13 "		
38	31	27	58	Per cent	{ Males: 43.69 Females: 56.31		
39	27	21	48				
40	36	23	59				
41	42	23	65				
42	19	35	54				

Table No. 7 (continued).

3. Coast of Norway.

Fin-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.			
	males.	females.			males.	females.				
42	-	1	1	66	1	3	4			
44	1	-	1	67	3	5	8			
45	1	-	1	68	3	2	5			
46	-	1	1	69	-	5	5			
50	2	3	5	70	2	3	5			
51	8	3	11	71	1	4	5			
52	1	3	4	72	1	-	1			
53	2	-	2	73	-	1	1			
54	3	1	4	74	-	3	3			
55	2	3	5	75	-	3	3			
56	4	1	5	77	-	1	1			
57	5	-	5	Sum	68	79	147			
58	4	3	7	Average size {			Males: 59.24 feet			
59	-	4	4				Females: 62.86 "			
60	3	6	9				Total animals: 61.18 "			
61	5	1	6	Per cent {			Males: 46.26			
62	3	5	8				Females: 53.74			
63	2	5	7							
64	6	2	8							
65	5	7	12							

4. New Foundland.

Fin-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.			
	males.	females.			males.	females.				
50	5	2	7	65	3	6	9			
51	2	1	3	66	2	6	8			
52	2	4	6	67	1	4	5			
53	3	2	5	68	-	3	3			
54	3	2	5	69	-	2	2			
55	10	5	15	70	-	2	2			
56	1	1	2	72	-	1	1			
57	5	2	7	Sum	78	68	146			
58	6	2	8	Average size {			Males: 58.36 feet			
59	4	1	5				Females: 61.16 "			
60	12	5	17				Total animals: 59.66 "			
61	4	6	10	Per cent {			Males: 53.42			
62	7	5	12				Females: 46.58			
63	4	2	6							
64	4	4	8							

Table No. 7 (continued).

5. Alaska.
Fin-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
42	1	—	1	64	5	3	8
48	—	1	1	65	1	4	5
50	3	2	5	66	2	6	8
51	8	4	12	67	1	3	4
52	3	4	7	68	1	3	4
53	8	4	12	69	1	2	3
54	3	4	7	70	—	4	4
55	2	2	4	72	1	1	2
56	5	2	7	Sum	80	79	159
57	5	—	5	Average size { Males: 57.68 feet Females: 60.80 " Total animals: 59.23 " Per cent { Males: 50.31 Females: 49.69 1 fin-whale has not been measured.			
58	5	5	10				
59	4	3	7				
60	9	11	20				
61	8	3	11				
62	2	4	6				
63	2	4	6				

Humpbacks.

35	3	2	5	48	—	5	5
36	9	7	16	49	1	1	2
37	5	5	10	51	—	3	3
38	5	5	10	54	—	1	1
39	7	3	10	Sum	54	52	106
40	4	2	6	Average size { Males: 39.83 feet Females: 41.54 " Total animals: 40.67 " Per cent { Males: 49.06 Females: 50.94 12 humpbacks have not been measured.			
41	4	8	12				
42	5	3	8				
43	2	1	3				
44	4	1	5				
45	2	1	3				
46	2	4	6				
47	1	—	1				

6. Coast of Peru.

Blue-whales.

48	—	1	1	76	4	7	11
60	—	1	1	77	6	6	12
61	2	—	2	78	1	6	7
62	—	1	1	79	—	2	2
64	—	1	1	80	—	2	2
65	—	1	1	82	—	2	2
67	3	—	3	84	—	2	2
68	4	2	6	Sum	68	67	135
69	—	1	1	Average size { Males: 72.12 feet Females: 73.90 " Total animals: 73.00 " Per cent { Males: 50.37 Females: 49.63			
70	14	3	17				
71	5	4	9				
72	9	7	16				
73	4	3	7				
74	10	7	17				
75	6	8	14				

Table No. 7 (continued).

Fin-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
44	1	—	1	65	5	—	5
46	1	—	1	66	2	3	5
47	1	—	1	67	5	1	6
48	2	1	3	68	1	—	1
49	1	—	1	69	1	1	2
50	7	4	11	70	3	1	4
51	—	2	2	71	1	2	3
52	8	4	12	72	—	2	2
53	8	5	13	73	1	—	1
54	8	5	13	74	—	1	1
55	3	6	9				
56	2	5	7	Sum	79	60	139
57	5	4	9				
58	4	2	6				
59	2	4	6				
60	—	3	3	Average size	Males: 57.43 feet		
61	3	1	4		Females: 57.95 "		
62	—	1	1		Total animals: 57.65 "		
63	1	1	2	Per cent	Males: 56.83		
64	3	1	4		Females: 43.17		

7. Coast of West Australia.

Humpbacks.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
24	1	—	1	44	81	43	124
25	5	—	5	45	44	41	85
27	—	2	2	46	16	32	48
28	4	2	6	47	5	15	20
29	5	2	7	48	4	11	15
30	21	13	34	49	1	5	6
31	30	21	51	50	—	1	1
32	37	32	69	51	—	1	1
33	50	35	85	52	—	2	2
34	53	26	79	Sum	2,138	934	3,072
35	217	128	345				
36	142	88	230				
37	133	82	215	Average size	Males: 38.84 feet		
38	213	85	298		Females: 38.57 "		
39	190	51	241		Total animals: 38.75 "		
40	285	65	350	Per cent	Males: 69.60		
41	253	45	298		Females: 30.40		
42	194	48	242				
43	154	58	212				

**Table No. 8.—Average production of oil per “blue-whale unit”
in the summer-season 1936.**

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

Geographical areas.	Company.	Blue-whale equivalents.	Oil production.	
			Total.	Per blue-whale equivalent.
			Barrels. ¹⁾	Barrels. ¹⁾
<i>Coast of Africa:—</i>				
Coast of Natal	No. 1	436.7	37,662	86.2
Cape Colony	„ 1	412.0	27,449	66.6
Coast of Congo, pelagic	„ 1	80.7	9,669	119.8
	„ 2	120.0	13,127	109.4
	„ 3	139.6	14,549	104.2
Average		—	—	109.7
<i>Atlantic and Arctic:—</i>				
Coast of Norway	No. 1	44.2	3,159	71.5
	„ 2	10.2	691	67.7
	„ 3	30.2	1,909	63.2
	„ 4	18.7	1,146	61.3
Faroe Islands	„ 1	34.7	2,400	69.2
Iceland	„ 1	41.2	3,158	76.7
Average		—	—	66.9
New Foundland	No. 1	60.8	4,587	75.4
	„ 2	36.6	1,685	46.0
Average		—	—	64.5
<i>Pacific, (north):—</i>				
Alaska	No. 1	86.9	7,104	81.7
	„ 2	81.3	6,348	78.1
Average		—	—	80.0
British Columbia	No. 1	21.5	1,150	53.5
	„ 2	11.1	582	52.4
Average		—	—	53.1
Coast of Peru	No. 1	117.4	6,763	57.6
	„ 2	90.4	5,210	57.6
Average		—	—	57.6
Coast of West Australia	No. 1	601.6	61,014	101.4
	„ 2	630.7	60,644	96.2
Average		—	—	98.7

¹⁾ Barrel = 1/6 ton. (1 ton = 1,016 kg.).

