

DET NORSKE HVALRÅDS STATISTISKE PUBLIKASJONER

INTERNATIONAL
WHALING STATISTICS

V

EDITED BY

THE COMMITTEE FOR WHALING STATISTICS
APPOINTED BY THE NORWEGIAN GOVERNMENT



OSLO 1934

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Introduction.

In the "International Whaling Statistics" V we are submitting general statistics of the catch for the season 1932-33 and the summer 1933. We have not succeeded in obtaining the results for Chile for 1933, and we have got no information of the species of whales caught outside Kamtchatka, Alaska and California. This year we have, however, succeeded in getting some informations of the whale-hunting off the Azores. This hunting is not of considerable importance and is not, from a technical point of view, a modern whaling. The Japanese catch has in former years in these statistics been registered by calendar years. From this year the results of the Japanese whaling will be given by seasons, i.e. from October 1st to September 30th.

In Table No. 1-5 are given the results of the whaling in 1932-33, specified for the different species of whales, areas and countries. In Table No. 6-7 and 8 are given the sizes of whales caught, in Table No. 6 by companies and areas, in Table No. 7 the whales are classified by English feet, and in Table No. 8 the whales are grouped according to size, mature and immature whales. In Table No. 9 is given the average production of oil per whale for different companies. In Table No. 10 is given the measurement of whale-foetuses for 13 hunting expeditions in the Antarctic. In "International Whaling Statistics" III the measurements given only refer to shore stations. This year the measurements are given for the floating factories.

The last 3 years of whaling have been influenced by the world economic crisis. In the season 1931-32 there was not carried on any whale-hunting from Norway in the Antarctic. In the two following seasons, 1932-33 and 1933-34, the hunting has been restricted through a production agreement concluded between most of the companies which take part in the Antarctic whaling. Only two English expeditions have not taken part in this agreement. The aim of the agreement for the season 1932-33 was to restrict the production of whale oil. In order to reach this aim, the agreement has fixed quotas of barrels of oil and

quotas of whales for each company. The whale quota, i.e. the number of calculated blue-whales which each of the companies taking part in the agreement was allowed to shoot, was an absolute one, and the companies were under no circumstances allowed to shoot more whales than settled by the quota. The barrel quota, i.e. the number of barrels of oil which each company was allowed to produce, could be increased by a more complete utilisation of the whale itself. The minimum production per calculated blue-whale was fixed to 110 barrels. It was allowed to increase the utilisation of the whale until 10 per cent of the barrel quota. The barrel quota thus settled was given a margin of 1 per cent on the minimum and maximum. Through the production agreement it was settled that no shooting should take place before the 20th of October 1933—the whaling from South Georgia excepted. The whaling there started on October 10th. The shortening of the season was effected in order to raise the production of oil, experience showing that the whale is meagre in the beginning of the season. This agreement was with small modifications renewed for the season 1933-34.

In Table *a* is given the number of whales caught on the different areas from 1920-33.

Table a.

Years. 1)	All areas.	Antarctic.	Arctic.	Africa.	Pacific, north.	Japan.	Others.
1920	11,369	5,441	1,456	1,310	1,763	1,279	120
1921	12,174	8,448	310	1,263	129	1,487	537
1922	13,940	7,023	918	2,335	1,356	1,506	802
1923	18,120	9,910	1,204	3,105	1,363	1,422	1,116
1924	16,839	7,271	1,667	3,649	1,102	1,526	1,624
1925	23,253	10,488	1,523	4,384	1,892	1,875	3,091
1926	28,193	14,219	1,588	4,646	1,804	2,148	3,788
1927	24,175	12,665	1,403	4,144	2,064	1,546	2,353
1928	23,524	13,775	1,561	3,835	1,412	1,607	1,334
1929	27,896	20,341	1,159	3,362	1,241	1,463	330
1930	37,674	30,167	1,472	3,498	975	1,312	250
1931	42,874	40,201	703	823	—	1,147	—
1932	12,797	9,572	827	1,043	319	1,036	—
1933	28,668	24,327	1,257	1,168	591	2) 1,325	—

1) Season 1919-20, 1920-21 etc. 2) A small number of whales caught off Kamtchatka is included.

From this table we learn that 28,668 whales were killed in all areas in 1933. This is the largest number of whales killed in any year except 1930 and 1931. The maximum catch was in 1931 with 42,874 whales. The following year when Norway did not take part in the catch in the Antarctic, the number dropped to 12,797. During the agreement the

catch was increased to 28,668 whales, which is about the same as in 1929. Looking at the figures for the different areas, we observe that in all areas except the Antarctic the number of whales killed has gone down in 1931. The low number in 1932 for the "world catch" is due to the drop in the figures for the Antarctic. It was in these hunting grounds the enormous expansion had taken place from 1928 to 1931. Compared with the results for 1930 and 1931 the catch in 1933 is very moderate, but compared with former years very large.

In Table *b* below we give a survey of the total oil output from 1920-33.

Table b.

Years.	All whaling grounds.		Principal grounds.						All whaling grounds.	Antarctic.
			Antarctic.		Arctic.		Africa.			
	Total oil output.	Oil output per boat.	Oil output.	Oil output per boat.	Oil output.	Oil output per boat.	Oil output.	Oil output per boat.	Oil output per whale.	Oil output per whale.
	Barrels. ¹⁾	Barrel.	Barrels.	Barrels.	Barrels.	Barrels.	Barrels.	Barrels.	Barrels.	Barrels.
1920	407,327	2,645	272,817	6,206	35,989	1,091	51,921	2,077	35.8	50.1
1921	471,141	4,206	390,627	8,311	6,661	1,110	48,453	2,423	38.7	46.2
1922	639,276	4,502	452,517	9,837	23,095	1,216	76,680	3,334	45.9	64.4
1923	817,314	4,697	614,547	10,242	30,446	1,218	99,073	2,607	45.1	62.0
1924	716,246	3,692	464,678	7,041	41,563	1,599	125,732	2,994	42.5	63.9
1925	1,040,408	4,446	697,091	10,724	38,208	1,318	150,985	2,849	44.7	66.5
1926	1,152,536	4,925	783,307	11,190	42,732	1,474	139,754	2,973	40.9	55.1
1927	1,191,922	5,138	872,362	10,904	43,927	1,417	135,031	3,069	49.3	68.9
1928	1,321,313	5,979	1,037,392	12,349	48,854	1,480	135,229	3,005	56.2	75.3
1929	1,886,082	7,826	1,631,340	14,697	39,729	1,282	145,065	3,224	67.6	80.2
1930	2,799,042	8,330	2,546,759	13,128	53,694	1,627	144,446	2,579	74.3	84.4
1931	3,686,976	13,359	3,608,348	15,553	25,268	1,805	37,086	3,709	86.0	89.8
1932	915,842	9,442	808,560	17,968	28,590	1,682	44,112	5,514	71.6	84.5
1933	2,596,778	14,190	2,456,462	20,817	34,833	1,833	53,000	3,786	90.6	101.0

¹⁾ Barrel = $\frac{1}{16}$ ton (1 ton = 1,016 kg.).

The maximum of the oil output was reached in 1931 with 3,686,976 barrels. In 1932 it was 915,842 barrels, and in 1933 2,596,778 barrels, which was only 200,000 barrels less than in 1930. A calculation of the oil output for the Antarctic in the season 1933-34 shows a figure which is about 100,000 barrels less than in 1932-33. The output of oil in the last two years is then, compared with the production of former years in the Antarctic, very large, only the two years 1930 and 1931 showing a greater output. The output of oil in 1933 was 29.6 per cent lower than in 1931, while the number of whales caught in 1933 was 33.1 per cent lower than in 1931. The oil output has thus decreased less than the number of whales caught. The various composition of the whale stock in the two years and the rise in the average production of oil per blue whale unit has made it possible to increase the production of whale oil per whale.

In Table *c* is given a specification of the number of whales caught in the Antarctic by species.

Table c.—Antarctic.

Years.	Species of whales caught.							Oil production.	Expeditions.			Number of whales per boat.
	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.	Total of whales.		Shore stations.	Floating factories.	Catchers.	
								Barrels.				
1919-20	1,874	3,213	261	71	8	1) 14	5,441	272,817	6	6	44	124
1920-21	2,617	5,491	260	36	31	1) 13	8,448	390,627	6	8	47	180
1921-22	4,416	2,492	9	103	3	—	7,023	452,517	6	8	46	153
1922-23	5,683	3,677	517	10	23	—	9,910	614,547	6	13	60	165
1923-24	3,732	3,035	233	193	66	1) 12	7,271	464,678	7	13	66	110
1924-25	5,703	4,366	359	1	59	—	10,488	697,091	6	13	65	161
1925-26	4,697	8,916	364	195	37	1) 10	14,219	783,307	6	15	70	203
1926-27	6,545	5,102	189	778	39	1) 12	12,665	872,362	6	17	80	158
1927-28	8,334	4,459	23	883	72	1) 4	13,775	1,037,392	6	18	84	164
1928-29	12,734	6,689	48	808	62	—	20,341	1,631,340	6	26	111	183
1929-30	17,487	11,539	852	216	73	—	30,167	2,546,759	6	38	194	156
1930-31	29,410	10,017	576	145	51	1) 2	40,201	3,608,348	6	41	232	173
1931-32	6,488	2,871	184	16	13	—	9,572	808,560	2	5	45	213
1932-33	18,891	5,168	159	2	107	—	24,327	2,456,462	1	17	118	206

1) Right-whales.

From this table we learn that the catch of blue-whales in 1932-33 was the next largest in the history of whaling in the Antarctic. In this season 18,891 blue-whales were killed. The maximum catch was in 1931 with 29,410 blue-whales. The number of fin-whales killed was only 21.2 per cent of the total number of whales killed, which is less than in former seasons. The average yield of whales per boat was greater in the season 1931/32—213 whales per boat—than in any other season. The next largest yield was in the season 1932/33—206 whales per boat.

The species of the whales caught by the whaling companies in South Georgia, which is the oldest hunting ground in the Antarctic, are given in Table *d*.

Table d.—South Georgia.

Years.	Species of whales caught.							Oil production.	Expeditions.			Number of whales per boat.
	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.	Total of whales.		Shore stations.	Floating factories.	Catchers.	
								Barrels.				
1919-20	987	1,673	79	71	8	1) 14	2,832	147,029	6	—	26	109
1920-21	856	2,643	103	36	31	1) 13	3,682	177,137	5	—	21	175
1921-22	2,570	710	9	103	3	—	3,395	249,042	5	—	20	170
1922-23	3,569	1,445	320	10	19	—	5,363	347,553	5	1	23	233
1923-24	1,927	1,378	130	191	49	—	3,675	247,463	6	—	23	160
1924-25	3,512	2,019	262	1	24	—	5,818	406,176	5	1	24	242
1925-26	1,855	5,709	236	13	12	—	7,825	404,457	5	1	23	340
1926-27	3,689	1,144	—	365	17	—	5,215	417,292	5	1	23	227
1927-28	2,125	1,357	—	95	60	—	3,637	303,480	5	1	23	158
1928-29	1,560	3,130	15	396	31	—	5,132	348,629	5	1	23	223
1929-30	488	3,396	46	216	39	—	4,185	247,963	5	—	27	155
1930-31	1,085	1,416	66	144	24	1) 1	2,736	187,938	5	—	27	101
1931-32	438	1,735	6	16	10	—	2,205	122,205	2	—	12	184
1932-33	267	727	—	2	—	—	996	54,583	1	—	6	166

1) Right-whales.

In this area the blue-whale catch has been of relatively less importance in the later years. In the last season, when the whaling was carried on only by one shore station with 6 catchers, only 267 whales out of a total 996 were blue-whales. The average yield per boat, which in former years very often was greater in South Georgia than in the other parts of the Antarctic, has in the later years been smaller than in the other hunting grounds of Antarctic.

In Table *e* the result of the whaling, number of whales killed and oil production, is given separately for the Norwegian whaling, the British whaling and the whaling of other countries.

Table e.

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.
1920	4,590	210,659	3,378	137,448	3,401	59,220
1921	6,240	278,590	3,300	141,367	2,634	51,184
1922	6,157	332,039	4,105	196,086	3,678	111,151
1923	8,738	439,401	5,675	286,265	3,707	91,648
1924	7,180	366,963	5,759	258,079	3,900	91,204
1925	12,460	597,040	6,835	347,538	3,958	95,830
1926	14,727	662,641	8,735	380,107	4,731	109,788
1927	12,754	689,425	7,248	389,087	4,173	113,410
1928	11,791	799,361	7,079	400,192	4,654	121,790
1929	14,996	1,210,235	8,230	512,611	4,670	163,236
1930	21,609	1,796,221	12,204	856,797	3,861	146,024
1931	25,952	2,316,962	13,019	1,131,231	3,903	238,783
1932	797	28,590	9,765	803,955	2,235	83,297
1933	12,644	1,317,443	12,940	1,180,526	3,084	98,809

¹⁾ Barrel = $\frac{1}{6}$ ton (1 ton = 1.016 kg.).

The Norwegian and British whaling is by far the most important. Of these two countries Norway has had the lead up to 1932. In this year the Norwegian whaling fleet, which carries on whaling in the Antarctic, was laid up and the Norwegian catch was thus of little importance this year. In 1933 the output of the Norwegian and British whaling was on the same level. This is a result of the above mentioned agreement of production in which all the Norwegian companies in the Antarctic, and all the British companies, but two, took part.

In order to show the degree of the utilisation of the whales in the later years, compared with former years, the figures of the average production of oil per blue-whale unit for South Georgia and other grounds in the Antarctic are given in Table *f*.

Table f.—Average production of oil per blue-whale unit.¹⁾

Years.	South Georgia.	Other grounds in Antarctic.	Years.	South Georgia.	Other grounds in Antarctic.
	Barrels. ²⁾	Barrels.		Barrels.	Barrels.
1924-25.....	87.5	85.0	1929-30.....	110.7	109.6
1925-26.....	84.0	84.8	1930-31.....	100.1	105.6
1926-27.....	96.4	91.1	1931-32.....	92.9	102.6
1927-28.....	106.4	92.8	1932-33.....	86.5	114.6
1928-29.....	108.2	98.3			

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

The figures, showing the average yield for the other grounds in the Antarctic, where the most modern cookeries are operating, are of great interest. According to these figures the average production of oil has gone up from 85 barrels per blue-whale unit in the season 1924-25 to 114.6 barrels in the last season. It was a continuous increase in the yield up to the season 1929-30. Then there was a drop in the season 1930-31—the year of the maximum catch—and a further drop in 1931-32—the year when the Norwegian fleet did not take part in the whaling. In 1932-33 the figure was 114.6 barrels per blue-whale unit. For the companies adjoining the production agreement, the average yield per blue-whale unit was 117.6, for the other companies only 99.95.

Table g.—Average size of blue-whales and fin-whales.

Kind of whale and whaling grounds.	1932-1933.	1931-1932.	1930-1931.	1929-1930.	1928-1929.	1927-1928.	1926-1927.	1925-1926.	1924-1925.	1923-1924.
	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.
<u>Blue-whales.</u>										
South Georgia	70.87	70.90	75.47	74.07	75.30	76.94	78.68	70.89	74.54	—
South Shetland	} 80.40	} 84.03	} 79.84	} 80.19	} 81.11	78.59	76.95	78.21	76.47	—
South Orkney						—	75.07	69.20	74.54	—
Pelagic whaling in Antarctic						—	—	—	—	—
Ross Sea	—	—	82.09	82.10	—	81.56	85.20	—	77.74	—
Coast of Africa:—										
Natal	67.21	66.67	65.34	69.38	—	—	—	—	—	59.00
Hanglip	—	—	—	68.18	—	—	—	—	—	—
Walvis Bay	—	—	—	66.53	—	—	—	—	—	—
Saldanha Bay	—	—	—	66.80	—	—	—	—	—	—
Pelagic whaling in Arctic	74.24	73.47	75.73	73.42	—	—	—	—	—	—
Alaska	—	—	—	74.21	—	—	—	—	—	—

(cont.)

Table g (continued).

Kind of whale and whaling grounds.	1932- 1933.	1931- 1932.	1930- 1931.	1929- 1930.	1928- 1929.	1927- 1928.	1926- 1927.	1925- 1926.	1924- 1925.	1923- 1924.
<u>Fin-whales.</u>	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.	Engl. feet.
South Georgia	63.96	62.16	65.74	66.05	—	66.69	69.12	67.42	66.65	—
South Shetland	} 68.71	69.95	65.46	65.15	}	62.79	64.63	65.75	66.30	—
South Orkney						—	62.36	62.35	66.57	—
Pelagic whaling in Ant- arctic.....						—	—	—	—	—
Ross Sea	—	—	69.89	71.17	—	—	—	—	—	—
Coast of Africa:—										
Natal	60.02	59.69	58.59	62.16	—	—	—	—	—	51.00
Hanglip.....	—	—	—	59.62	—	—	—	—	—	—
Walvis Bay	—	—	—	55.18	—	—	—	—	—	—
Saldanha Bay.....	—	—	—	58.54	—	—	—	—	—	—
North Atlantic and Arctic:										
Pelagic whaling.....	62.35	63.38	62.31	60.36	—	—	—	—	—	—
Whaling from coast..	59.40	—	—	60.16	—	—	—	—	—	—
Alaska	—	—	—	55.93	—	—	—	—	—	—
Japan and Corea	—	—	—	55.15	—	—	—	—	—	—

As shown in Table g, the average size of blue-whales and fin-whales varies from one ground to another. The figures for the last season, however, do not show any marked difference from the former years. In this year as in former years the blue-whales caught by pelagic whaling in the Antarctic are larger than those caught by pelagic whaling in the Arctic. But these again are larger than the whales caught in South Georgia, and these again larger than the blue-whales caught at the coast of Africa. The blue-whales caught in South Georgia seem to have been smaller in the last two seasons than in most of the former seasons recorded.

Oslo, 7th of June 1934.

Gunnar Jahn.

Johan Hjort.

Sigurd Risting.

Table No. 1.—Whaling in 1932/33 and summer 1933.

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	267	727	—	2	—	—	996	Barrel = 1/6 ton. ¹⁾ 54,583	1	—	6
Antarctic, others (pelagic)	18,624	4,441	159	—	107	—	23,331	2,401,879	—	17	112
Coast of Natal	85	602	162	11	306	²⁾ 2	1,168	53,000	2	—	14
North Atlantic and Arctic:—											
Azores ³⁾	—	—	—	—	77	⁴⁾ 176	253	—	—	—	—
Faroe Islands ...	6	91	—	7	3	—	107	3,243	1	—	2
Coast of Norway	7	197	1	22	9	—	236	6,585	2	—	6
Coast of West Greenland.....	3	17	1	—	—	—	21	—	—	—	1
North Atlantic and Arctic, pe- lagic	43	549	7	—	41	—	640	25,005	—	3	10
Pacific (north):—											
Alaska.....	—	—	—	—	—	⁵⁾ 182	182	6,420	1	—	3
British Columbia	1	17	1	—	190	—	209	11,500	1	—	4
California	—	—	—	—	—	⁵⁾ 200	200	6,160	—	1	2
Coast of Kamtchatka	—	—	—	—	—	⁶⁾ 203	203	6,705	—	1	3
Coast of Japan and Corea ⁷⁾	10	299	89	388	331	⁸⁾ 5	1,122	21,698	—	— ⁹⁾ ca.20	
Total	19,046	6,940	420	430	1,064	768	28,668	2,596,778	8	22	183

¹⁾ 1 ton = 1,016 kg. ²⁾ Right-whales. ³⁾ Whaling is carried on with row-boats on old lines. ⁴⁾ Different kinds of small whales. ⁵⁾ No specification. ⁶⁾ No specification, most fin-whales. ⁷⁾ Catch from October 1932 to September 1933. ⁸⁾ 3 right-whales and 2 grey-whales (Calif. Grey). ⁹⁾ Max. 21 catchers, min. 18.

Table No. 2.—Norwegian whaling in 1932/33 and summer 1933.¹⁾

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..	10,128	1,514	59	—	67	—	11,768	Barrel = 1/6 ton. 1,285,853	—	9	58
Coast of Norway ..	7	197	1	22	9	—	236	6,585	2	—	6
North Atlantic and Arctic, pelagic ..	43	549	7	—	41	—	640	25,005	—	3	10
Total	10,178	2,260	67	22	117	—	12,644	1,317,443	2	12	74

¹⁾ By fixing the nationality to which the catch must be referred here has been taken account of the flag worn by the floating factory.

Table No. 3.—British whaling in 1932/33 and summer 1933.

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..	8,496	2,927	100	—	40	—	11,563	Barrel = 1/6 ton. 1,116,026	—	8	54
Coast of Natal....	85	602	162	11	306	¹⁾ 2	1,168	53,000	2	—	14
British Columbia..	1	17	1	—	190	—	209	11,500	1	—	4
Total	8,582	3,546	263	11	536	2	12,940	1,180,526	3	8	72

¹⁾ Right-whales.**Table No. 4.—Whaling of other countries in 1932/33 and summer 1933.**

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.....	267	727	—	2	—	—	996	Barrel = 1/6 ton. 54,583	1	—	6
Azores.....	—	—	—	—	77	¹⁾ 176	253	—	—	—	—
Faroe Islands.....	6	91	—	7	3	—	107	3,243	1	—	2
Coast of West Greenland.....	3	17	1	—	—	—	21	—	—	—	1
Alaska.....	—	—	—	—	—	²⁾ 182	182	6,420	1	—	3
California.....	—	—	—	—	—	²⁾ 200	200	6,160	—	1	—
Coast of Kamchatka	—	—	—	—	—	³⁾ 203	203	6,705	—	1	3
Coast of Japan and Corea.....	10	299	89	388	331	⁴⁾ 5	1,122	21,698	—	—	ca. 20
Total	286	1,134	90	397	411	766	3,084	98,809	3	2	37

¹⁾ Different kinds of small whales. ²⁾ No specification. ³⁾ No specification, most fin-whales. ⁴⁾ 3 right-whales and 2 grey-whales (Calif. Grey).**Table No. 5.—Whaling results for the various countries in 1932/33 and summer 1933.**

Countries.	Species of whales caught.							Oil production.	Expeditions.		
	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.	Total of whales.		Shore stations.	Floating factories.	Catchers.
Norway.....	10,178	2,260	67	22	117	—	12,644	Barrel = 1/6 ton. 1,317,443	2	12	74
British Empire....	8,582	3,546	263	11	536	¹⁾ 2	12,940	1,180,526	3	8	72
Argentina.....	267	727	—	2	—	—	996	54,583	1	—	6
Denmark.....	9	108	1	7	3	—	128	3,243	1	—	3
Japan.....	10	299	89	388	331	²⁾ 5	1,122	21,698	—	—	ca. 20
Portugal (Azores) ..	—	—	—	—	77	³⁾ 176	253	—	—	—	—
Russia.....	—	—	—	—	—	⁴⁾ 203	203	6,705	—	1	3
United States.....	—	—	—	—	—	⁵⁾ 382	382	12,580	1	1	5
Total	19,046	6,940	420	430	1,064	768	28,668	2,596,778	8	22	183

¹⁾ Right-whales. ²⁾ 3 right-whales and 2 grey-whales (Calif. Grey). ³⁾ Different kinds of small whales. ⁴⁾ No specification, most fin-whales. ⁵⁾ No specification.

Table No. 6.—Average size of blue-whales and fin-whales in the season 1932/33 and summer 1933.

Geographical areas. Number of whales measured.	Company.	Average size.		
		Males.	Females.	Total animals.
		Engl. feet.	Engl. feet.	Engl. feet.
A. Blue-whales.				
<i>South Georgia</i>	No. 1	69.55	71.82	70.87
Males 111 } Total 266.				
Females 155 }				
<i>Antarctic, others</i> (pelagic whaling)	No. 1	82.41	84.85	83.58
Males 9,673 } Total 18,580.	" 2	81.55	84.61	82.87
Females 8,907 }	" 3	80.05	83.55	81.57
	" 4	79.26	82.20	80.86
	" 5	79.48	82.10	80.75
	" 6	79.34	82.46	80.67
	" 7	78.89	82.54	80.66
	" 8	78.34	82.47	80.24
	" 9	77.88	82.58	80.18
	" 10	78.00	80.98	79.60
	" 11	78.16	81.01	79.47
	" 12	77.38	81.20	79.26
	" 13	76.83	80.85	79.08
	" 14	77.15	80.74	78.87
	" 15	77.16	80.37	78.72
	" 16	76.88	80.17	78.59
	" 17	76.36	79.22	77.78
Average		78.88	82.06	80.40
<i>Coast of Natal</i>	No. 1	66.29	67.86	67.21
Males 35 } Total 85.				
Females 50 }				
<i>Pelagic whaling in North Atlantic and Arctic</i>	No. 1	70.00	72.50	72.00
Males 30 } Total 42.	" 2	73.67	75.00	73.91
Females 12 }	" 3	73.75	78.33	74.81
Average		73.60	75.83	74.24
B. Fin-whales.				
<i>South Georgia</i>	No. 1	63.42	64.46	63.96
Males 345 } Total 721.				
Females 376 }				

Table No. 6 (continued).

Geographical areas. Number of whales measured.	Company.	Average size.		
		Males.	Females.	Total animals.
		Engl. feet.	Engl. feet.	Engl. feet.
<i>Antarctic, others</i> (pelagic whaling)	No. 1	69.98	73.22	71.77
Males 2,363 } Total 4,434.	" 2	70.47	73.56	71.73
Females 2,071 }	" 3	69.15	71.70	70.49
	" 4	68.54	71.79	70.38
	" 5	68.16	71.29	69.88
	" 6	67.12	71.61	69.80
	" 7	67.42	71.06	69.22
	" 8	67.27	70.32	68.81
	" 9	66.98	70.38	68.71
	" 10	67.01	71.26	68.66
	" 11	66.99	70.55	68.37
	" 12	67.92	68.90	68.36
	" 13	66.41	69.61	67.99
	" 14	66.10	69.40	67.71
	" 15	65.93	69.50	67.61
	" 16	65.86	68.75	67.37
	" 17	64.32	67.63	65.60
Average		67.09	70.56	68.71
<i>Coast of Natal</i>	No. 1	59.72	60.46	60.02
Males 354 } Total 602.				
Females 248 }				
<i>Coast of Norway and Faroe Islands</i>	No. 1	59.19	60.70	59.62
Males 161 } Total 288.	" 2	55.84	60.43	57.86
Females 127 }	" 3	60.62	60.53	60.57
Average		58.50	60.53	59.40
<i>Pelagic whaling in North Atlantic and Arctic</i>	No. 1	65.08	66.37	65.79
Males 293 } Total 541.	" 2	61.11	64.20	62.54
Females 248 }	" 3	59.10	62.45	60.47
Average		60.88	64.10	62.35

Table No. 7.—Whales caught in the season 1932/33 in the Antarctic, by species, sex and size.

Total Antarctic.

Blue-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
52	—	1	1	83	616	605	1,221
57	1	2	3	84	497	643	1,140
58	3	1	4	85	437	768	1,205
59	—	1	1	86	223	635	858
60	19	14	33	87	187	551	738
61	13	22	35	88	114	479	593
62	19	19	38	89	54	305	359
63	25	32	57	90	47	421	468
64	39	34	73	91	17	155	172
65	72	50	122	92	8	127	135
66	72	79	151	93	2	89	91
67	91	67	158	94	1	55	56
68	117	79	196	95	—	39	39
69	176	120	296	96	—	20	20
70	230	189	419	97	2	11	13
71	151	133	284	98	—	11	11
72	204	174	378	99	—	2	2
73	247	190	437	100	—	2	2
74	273	152	425				
75	306	185	491	Sum	9,784	9,062	18,846
76	606	297	903				
77	546	223	769	Average size	{ Males: 78.77 feet		
78	791	294	1,085		{ Females: 81.89 "		
79	678	268	946		{ Total animals: 80.27 "		
80	1,356	568	1,924	Per cent	{ Males: 51.92		
81	770	395	1,165		{ Females: 48.08		
82	774	555	1,329				

Fin-whales.

48	—	1	1	70	267	270	537
50	—	2	2	71	131	142	273
51	6	3	9	72	120	228	348
52	7	8	15	73	76	217	293
53	14	9	23	74	53	163	216
54	14	7	21	75	38	163	201
55	14	10	24	76	17	94	111
56	23	23	46	77	7	66	73
57	31	24	55	78	5	69	74
58	43	35	78	79	1	21	22
59	45	22	67	80	2	24	26
60	87	68	155	81	—	2	2
61	67	39	106	82	—	5	5
62	103	60	163	85	—	1	1
63	109	60	169				
64	135	59	194	Sum	2,708	2,447	5,155
65	202	65	267				
66	304	123	427	Average size	{ Males: 66.62 feet		
67	292	105	397		{ Females: 69.62 "		
68	258	104	362		{ Total animals: 68.04 "		
69	237	155	392	Per cent	{ Males: 52.53		
					{ Females: 47.47		

Table No. 7 (continued).

a. South Georgia.

Blue-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
57	—	1	1	79	1	3	4
60	5	3	8	80	1	—	1
61	1	3	4	81	—	2	2
62	3	7	10	82	—	3	3
63	1	10	11	83	1	5	6
64	4	2	6	84	—	7	7
65	9	3	12	85	—	1	1
66	8	13	21	86	—	2	2
67	8	4	12	87	—	1	1
68	11	6	17	88	—	1	1
69	6	4	10	89	—	1	1
70	13	7	20	90	—	1	1
71	7	19	26	Sum	111	155	266
72	4	9	13	Average size {			Males: 69.55 feet
73	6	11	17	{			Females: 71.82 ..
74	7	8	15	{			Total animals: 70.87 ..
75	2	6	8	Per cent {			Males: 41.73
76	6	4	10	{			Females: 58.27
77	3	4	7				
78	4	4	8				

Fin-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
48	—	1	1	68	11	20	31
50	—	1	1	69	11	29	40
51	1	2	3	70	11	25	36
52	4	4	8	71	6	11	17
53	4	6	10	72	7	16	23
54	5	4	9	73	4	8	12
55	4	3	7	74	4	7	11
56	4	7	11	75	5	4	9
57	11	13	24	76	1	2	3
58	17	13	30	77	—	2	2
59	13	10	23	Sum	345	376	721
60	32	29	61	Average size {			Males: 63.42 feet
61	22	22	44	{			Females: 64.46 ..
62	30	26	56	{			Total animals: 63.96 ..
63	26	23	49	Per cent {			Males: 47.85
64	30	22	52	{			Females: 52.15
65	36	20	56				
66	34	33	67				
67	12	13	25				

Table No. 7 (continued).

b. Antarctic, pelagic whaling.

Blue-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
52	—	1	1	83	615	600	1,215
57	1	1	2	84	497	636	1,133
58	3	1	4	85	437	767	1,204
59	—	1	1	86	223	633	856
60	14	11	25	87	187	550	737
61	12	19	31	88	114	478	592
62	16	12	28	89	54	304	358
63	24	22	46	90	47	420	467
64	35	32	67	91	17	155	172
65	63	47	110	92	8	127	135
66	64	66	130	93	2	89	91
67	83	63	146	94	1	55	56
68	106	73	179	95	—	39	39
69	170	116	286	96	—	20	20
70	217	182	399	97	2	11	13
71	144	114	258	98	—	11	11
72	200	165	365	99	—	2	2
73	241	179	420	100	—	2	2
74	266	144	410				
75	304	179	483	Sum	9,673	8,907	18,580
76	600	293	893				
77	543	219	762				
78	787	290	1,077	Average size	{	Males: 78.88 feet	
79	677	265	942			Females: 82.06 "	
80	1,355	568	1,923			Total animals: 80.40 "	
81	770	393	1,163	Per cent	{	Males: 52.06	
82	774	552	1,326			Females: 47.94	

Fin-whales.

50	—	1	1	71	125	131	256
51	5	1	6	72	113	212	325
52	3	4	7	73	72	209	281
53	10	3	13	74	49	156	205
54	9	3	12	75	33	159	192
55	10	7	17	76	16	92	108
56	19	16	35	77	7	64	71
57	20	11	31	78	5	69	74
58	26	22	48	79	1	21	22
59	32	12	44	80	2	24	26
60	55	39	94	81	—	2	2
61	45	17	62	82	—	5	5
62	73	34	107	85	—	1	1
63	83	37	120				
64	105	37	142	Sum	2,363	2,071	4,434
65	166	45	211				
66	270	90	360	Average size	{	Males: 67.09 feet	
67	280	92	372			Females: 70.56 "	
68	247	84	331			Total animals: 68.71 "	
69	226	126	352	Per cent	{	Males: 53.29	
70	256	245	501			Females: 46.71	

Table No. 8.—Whales caught in the season 1932/33 in the Antarctic, by species, sex and groups of size.

Total Antarctic.

Blue-whales.

	Number of whales.	Per cent.
Group 1. (70 feet and less)	1,587	8.42
„ 2. (71 feet to 85 feet).....	13,702	72.71
„ 3. (above 85 feet).....	3,557	18.87
	18,846	100.00
Immature males	1,479	15.12
„ females	1,841	20.32
„ animals	3,320	17.62
Mature males	8,305	84.88
„ females.....	7,221	79.68
„ animals	15,526	82.38

Fin-whales.

Group 1. (55 feet and less)	95	1.84
„ 2. (56 feet to 65 feet).....	1,300	25.22
„ 3. (above 65 feet).....	3,760	72.94
	5,155	100.00
Immature males	454	16.77
„ females.....	430	17.57
„ animals	884	17.15
Mature males	2,254	83.23
„ females.....	2,017	82.43
„ animals	4,271	82.85

a. South Georgia.

Blue-whales.

Group 1. (70 feet and less)	132	49.62
„ 2. (71 feet to 85 feet).....	128	48.12
„ 3. (above 85 feet).....	6	2.26
	266	100.00
Immature males	86	77.48
„ females	120	77.42
„ animals	206	77.44
Mature males	25	22.52
„ females.....	35	22.58
„ animals	60	22.56

Table No. 8 (continued).

Fin-whales.

	Number of whales.	Per cent.
Group 1. (55 feet and less)	39	5.41
„ 2. (56 feet to 65 feet)	406	56.31
„ 3. (above 65 feet)	276	38.28
	721	100.00
Immature males	147	42.61
„ females	186	49.47
„ animals	333	46.19
Mature males	198	57.39
„ females	190	50.53
„ animals	388	53.81

b. Antarctic, pelagic whaling.**Blue-whales.**

Group 1. (70 feet and less)	1,455	7.83
„ 2. (71 feet to 85 feet)	13,574	73.06
„ 3. (above 85 feet)	3,551	19.11
	18,580	100.00
Immature males	1,393	14.40
„ females	1,721	19.32
„ animals	3,114	16.76
Mature males	8,280	85.60
„ females	7,186	80.68
„ animals	15,466	83.24

Fin-whales.

Group 1. (55 feet and less)	56	1.26
„ 2. (56 feet to 65 feet)	894	20.16
„ 3. (above 65 feet)	3,484	78.58
	4,434	100.00
Immature males	307	12.99
„ females	244	11.78
„ animals	551	12.43
Mature males	2,056	87.01
„ females	1,827	88.22
„ animals	3,883	87.57

Table No. 9.—Average production of oil per blue-whale in the Antarctic in the season 1932/33.

Other whales are reduced to blue-whale equivalents on the following basis:—
1 blue-whale = 2 fin-whales = $2\frac{1}{2}$ humpbacks = 6 sei-whales.

Geographical areas.	Company.	Blue-whale equivalents.	Oil production.	
			Total.	Per blue-whale equivalent.
<i>South Georgia</i>	No. 1	630.9	Barrel = $\frac{1}{6}$ ton. ¹⁾ 54,583	Barrel = $\frac{1}{6}$ ton. ¹⁾ 86.5
<i>Antarctic, others</i> (pelagic whaling)	No. 1	938.4	118,796	126.6
	„ 2	961.5	118,408	123.1
	„ 3	966.0	118,803	123.0
	„ 4	1,058.0	128,958	121.9
	„ 5	887.0	107,492	121.2
	„ 6	1,310.9	156,895	119.7
	„ 7	906.7	107,879	119.0
	„ 8	1,391.5	163,747	117.7
	„ 9	1,360.9	160,150	117.5
	„ 10	1,892.6	222,244	117.4
	„ 11	1,091.0	127,435	116.8
	„ 12	981.9	114,252	116.4
	„ 13	1,011.2	116,150	114.9
	„ 14	1,640.0	179,500	109.4
	„ 15	920.7	95,533	103.8
	„ 16	1,696.2	171,500	101.2
	„ 17	1,893.6	187,300	98.9
Average	—	—	—	114.55
	Companies adjoined the production agreement	17,318.3	2,036,242	117.58
	Companies not adjoined the production agreement (2 British companies)	3,589.8	358,800	99.95

¹⁾ 1 ton = 1,016 kg.

Table No. 10.—Whale foetuses.

I. Blue-whale foetuses
measured in the Southern Seas in the season 1932/33.

Date when measured.	Length.		Date when measured.	Length.		Date when measured.	Length.	
	Mother.	Foetus.		Mother.	Foetus.		Mother.	Foetus.
	Engl. feet.	Engl. feet.		Engl. feet.	Engl. feet.		Engl. feet.	Engl. feet.
21/10 32	90	2' 0"	29/10 32	95	6' 0"	3/11 32	85	{ 6' 0"
" "	90	2' 6"	" "	82	4' 0"	" "	90	{ 6' 0"
" "	90	3' 0"	" "	79	1' 6"	" "	83	{ 4' 0"
" "	84	2' 6"	" "	86	2' 0"	" "	85	{ 7' 6"
" "	81	1' 6"	" "	86	3' 0"	" "	90	{ 6' 0"
" "	96	6' 0"	" "	79	3' 0"	4/11 "	87	{ 5' 0"
22/10 "	90	2' 6"	" "	81	0' 9"	" "	94	{ 4' 0"
" "	82	3' 0"	" "	84	4' 0"	" "	84	{ 2' 0"
" "	83	4' 0"	30/10 "	81	3' 0"	" "	84	{ 7' 0"
23/10 "	90	3' 0"	" "	83	3' 6"	" "	84	{ 4' 0"
" "	84	2' 6"	" "	82	3' 0"	" "	88	{ 5' 6"
" "	87	7' 0"	" "	82	0' 3"	" "	65	{ 6' 5"
" "	89	4' 0"	" "	87	5' 0"	" "	80	{ 6' 0"
24/10 "	82	3' 0"	" "	85	2' 4"	" "	84	{ 3' 0"
" "	84	3' 6"	" "	82	2' 0"	" "	89	{ 4' 0"
" "	90	4' 0"	" "	81	3' 0"	5/11 "	87	{ 4' 0"
25/10 "	81	2' 6"	" "	88	5' 0"	" "	88	{ 1' 9"
" "	92	6' 0"	" "	88	2' 6"	" "	91	{ 0' 6"
" "	86	4' 0"	" "	70	3' 0"	" "	87	{ 7' 0"
" "	91	0' 3"	31/10 "	86	5' 0"	" "	81	{ 6' 0"
" "	90	5' 0"	" "	86	5' 0"	" "	81	{ 6' 0"
" "	88	3' 0"	" "	80	4' 0"	" "	80	{ 3' 5"
" "	71	4' 0"	" "	90	3' 0"	" "	83	{ 2' 1"
26/10 "	85	4' 0"	" "	77	2' 0"	" "	83	{ 4' 3"
" "	86	3' 0"	" "	82	3' 5"	" "	85	{ 4' 0"
" "	91	6' 0"	" "	90	5' 0"	" "	88	{ 8' 0"
" "	83	6' 0"	" "	86	4' 0"	" "	83	{ 6' 6"
27/10 "	84	3' 6"	" "	91	4' 0"	6/11 "	86	{ 3' 6"
" "	86	4' 0"	" "	86	4' 0"	" "	87	{ 3' 0"
" "	84	2' 6"	" "	77	2' 6"	" "	84	{ 4' 0"
" "	89	3' 9"	1/11 "	85	5' 0"	" "	83	{ 4' 0"
" "	84	8' 0"	" "	86	5' 5"	" "	85	{ 3' 0"
" "	83	2' 8"	" "	91	1' 0"	" "	80	{ 5' 0"
" "	82	3' 6"	" "	73	8' 0"	" "	84	{ 6' 0"
" "	84	6' 0"	" "	85	3' 0"	" "	82	{ 3' 0"
" "	76	2' 0"	" "	87	3' 6"	" "	83	{ 3' 1"
" "	84	1' 6"	" "	86	4' 0"	" "	83	{ 3' 1"
" "	91	7' 0"	" "	87	4' 0"	" "	85	{ 7' 0"
" "	85	2' 0"	" "	86	3' 0"	7/11 "	88	{ 4' 0"
" "	71	6' 0"	" "	90	5' 6"	" "	88	{ 2' 9"
" "	83	6' 0"	" "	81	4' 0"	" "	79	{ 4' 0"
28/10 "	80	2' 6"	" "	76	3' 0"	" "	85	{ 2' 0"
" "	84	4' 0"	2/11 "	87	4' 6"	" "	87	{ 5' 2"
" "	93	6' 0"	" "	86	3' 0"	" "	85	{ 5' 0"
" "	85	6' 0"	" "	86	3' 0"	" "	93	{ 6' 0"
" "	88	5' 0"	" "	87	3' 0"	" "	80	{ 3' 5"
" "	84	3' 0"	" "	83	4' 0"	" "	76	{ 1' 9"
" "	89	4' 0"	" "	81	3' 0"	" "	92	{ 5' 0"
" "	84	4' 0"	" "	90	0' 8"	" "	82	{ 5' 0"
29/10 "	87	4' 0"	" "	80	2' 9"	8/11 "	86	{ 3' 6"
" "	83	1' 6"	3/11 "	88	4' 6"	" "	86	{ 3' 6"
" "	90	3' 0"	" "	89	3' 0"	" "	85	{ 5' 0"
" "	83	3' 0"	" "	76	3' 0"	" "	86	{ 3' 0"

Table No. 10 (continued).

Date when measured.	Length.		Date when measured.	Length.		Date when measured.	Length.	
	Mother.	Foetus.		Mother.	Foetus.		Mother.	Foetus.
	Engl. feet.	Engl. feet.		Engl. feet.	Engl. feet.		Engl. feet.	Engl. feet.
8/11 32	83	4' 0"	13/11 32	86	4' 0"	17/11 32	80	5' 0"
" "	84	7' 0"	" "	82	2' 6"	" "	90	3' 0"
" "	79	6' 0"	14/11 "	85	4' 6"	" "	72	7' 0"
" "	84	1' 6"	" "	87	4' 6"	18/11 "	90	5' 0"
" "	84	3' 6"	" "	87	4' 0"	" "	93	5' 6"
" "	92	8' 10"	" "	80	3' 6"	" "	79	1' 0"
" "	88	7' 1"	" "	89	8' 0"	" "	87	5' 0"
" "	84	5' 8"	" "	84	5' 0"	" "	86	6' 0"
" "	75	3' 0"	" "	89	3' 6"	" "	85	8' 0"
" "	82	4' 0"	" "	86	3' 0"	" "	90	5' 0"
9/11 "	80	2' 0"	" "	90	4' 0"	" "	91	2' 0"
" "	86	4' 0"	" "	81	5' 6"	" "	87	3' 6"
" "	88	6' 0"	" "	83	8' 0"	" "	83	6' 6"
" "	86	5' 0"	" "	85	2' 0"	" "	90	6' 0"
" "	80	3' 0"	15/11 "	84	3' 0"	" "	84	7' 0"
" "	82	4' 0"	" "	86	3' 6"	" "	76	3' 0"
" "	82	1' 2"	" "	87	5' 0"	" "	84	6' 0"
" "	88	6' 0"	" "	84	2' 0"	" "	81	6' 0"
" "	87	4' 0"	" "	86	4' 0"	" "	81	1' 0"
" "	79	3' 9"	" "	84	9' 0"	" "	81	3' 6"
" "	81	6' 6"	" "	78	2' 8"	19/11 "	81	3' 0"
10/11 "	85	3' 6"	" "	86	3' 0"	" "	85	3' 0"
" "	88	4' 6"	" "	86	4' 0"	" "	83	3' 6"
" "	84	3' 6"	" "	84	6' 0"	" "	83	9' 0"
" "	72	3' 0"	" "	71	4' 0"	" "	89	4' 0"
" "	87	4' 0"	16/11 "	88	4' 0"	" "	82	3' 0"
" "	82	6' 0"	" "	80	2' 6"	" "	89	6' 0"
" "	76	4' 0"	" "	88	5' 0"	" "	87	4' 0"
" "	87	5' 0"	" "	78	3' 0"	" "	85	8' 0"
" "	81	3' 0"	" "	89	7' 0"	" "	93	5' 6"
" "	75	3' 0"	" "	83	3' 6"	" "	89	3' 0"
11/11 "	83	2' 6"	" "	81	6' 0"	" "	75	2' 0"
" "	90	1' 0"	" "	86	5' 0"	" "	88	3' 0"
" "	86	5' 0"	" "	85	4' 0"	20/11 "	83	8' 0"
" "	88	6' 0"	" "	85	3' 0"	" "	90	9' 0"
" "	94	6' 0"	" "	91	3' 0"	" "	86	4' 0"
" "	81	4' 0"	" "	87	0' 7"	" "	87	15' 0"
" "	83	4' 0"	" "	88	4' 0"	" "	78	6' 6"
" "	81	3' 6"	" "	92	2' 0"	" "	93	9' 0"
" "	81	2' 0"	" "	90	0' 7"	" "	79	4' 0"
" "	79	6' 0"	" "	85	5' 0"	" "	89	5' 0"
" "	85	3' 0"	" "	86	6' 0"	" "	82	5' 0"
" "	79	3' 0"	" "	90	6' 0"	" "	93	7' 0"
12/11 "	80	1' 6"	" "	87	3' 6"	" "	85	3' 0"
" "	90	4' 0"	" "	80	6' 0"	" "	76	7' 0"
" "	88	10' 0"	" "	91	4' 0"	" "	84	3' 4"
" "	82	3' 6"	" "	85	2' 0"	" "	85	0' 2"
" "	83	6' 0"	" "	81	2' 0"	21/11 "	86	4' 6"
" "	91	8' 0"	" "	70	0' 5"	" "	92	5' 0"
" "	79	3' 0"	17/11 "	86	3' 6"	" "	85	4' 0"
" "	89	4' 0"	" "	89	4' 0"	" "	85	0' 6"
" "	83	4' 0"	" "	87	2' 0"	" "	85	6' 6"
13/11 "	90	5' 0"	" "	82	5' 0"	" "	90	7' 0"
" "	80	4' 0"	" "	87	6' 0"	" "	88	4' 0"
" "	94	2' 0"	" "	80	4' 6"	" "	98	4' 0"
" "	82	3' 0"	" "	83	3' 0"	" "	80	7' 0"
" "	85	3' 0"	" "	90	4' 0"	" "	91	5' 0"
" "	88	4' 0"	" "	90	6' 0"	" "	87	5' 0"

Table No. 10 (continued).

Date when measured.	Length.		Date when measured.	Length.		Date when measured.	Length.	
	Mother.	Foetus.		Mother.	Foetus.		Mother.	Foetus.
21/11 32	86	7' 0"	24/11 32	84	5' 0"	29/11 32	85	3' 6"
" "	79	7' 6"	" "	85	5' 0"	" "	87	4' 0"
" "	93	5' 0"	" "	82	7' 0"	" "	90	6' 0"
" "	82	6' 6"	" "	78	3' 0"	" "	86	9' 0"
" "	85	10' 0"	" "	87	2' 0"	" "	94	0' 8"
" "	78	4' 0"	" "	81	5' 0"	" "	86	8' 0"
" "	84	7' 0"	" "	85	3' 0"	" "	81	7' 2"
" "	84	6' 0"	" "	85	5' 6"	" "	81	2' 11"
22/11 "	85	3' 6"	25/11 "	91	5' 6"	" "	87	6' 0"
" "	85	3' 6"	" "	86	5' 0"	" "	86	7' 0"
" "	86	5' 0"	" "	81	4' 0"	" "	89	9' 0"
" "	84	5' 0"	" "	88	2' 0"	" "	87	8' 6"
" "	86	2' 6"	" "	84	6' 0"	" "	88	1' 6"
" "	86	3' 6"	" "	89	8' 6"	" "	68	6' 0"
" "	83	3' 5"	" "	93	9' 0"	" "	70	4' 0"
" "	81	2' 6"	" "	88	4' 0"	" "	80	8' 0"
" "	75	7' 0"	" "	94	8' 0"	" "	81	2' 6"
" "	92	6' 0"	" "	88	7' 0"	30/11 "	87	5' 0"
" "	84	6' 0"	" "	78	6' 0"	" "	83	1' 0"
" "	84	3' 0"	" "	87	8' 6"	" "	88	6' 0"
" "	80	6' 6"	" "	87	5' 0"	" "	86	5' 0"
" "	92	4' 0"	" "	83	4' 6"	" "	95	11' 0"
" "	93	8' 0"	" "	82	5' 0"	" "	83	4' 6"
" "	85	10' 0"	" "	88	9' 0"	" "	80	5' 1"
" "	75	3' 6"	" "	86	2' 0"	" "	82	3' 5"
" "	83	4' 4"	" "	86	2' 4"	" "	78	2' 1"
23/11 "	86	4' 0"	26/11 "	95	6' 0"	" "	88	8' 0"
" "	86	4' 6"	" "	86	4' 6"	" "	88	8' 0"
" "	85	3' 6"	" "	93	4' 0"	" "	91	3' 0"
" "	90	6' 0"	" "	81	4' 0"	" "	89	6' 0"
" "	81	4' 0"	" "	86	1' 0"	" "	82	5' 0"
" "	85	7' 0"	" "	87	7' 0"	" "	89	5' 0"
" "	85	5' 6"	" "	85	3' 0"	" "	87	5' 6"
" "	89	4' 0"	" "	93	4' 6"	" "	83	3' 0"
" "	80	8' 0"	" "	80	4' 6"	" "	80	4' 6"
" "	81	6' 0"	" "	82	5' 0"	" "	88	10' 0"
" "	86	5' 0"	" "	86	7' 0"	" "	83	4' 0"
" "	85	5' 0"	" "	75	2' 0"	" "	85	8' 0"
" "	89	5' 0"	" "	90	5' 6"	1/12 "	80	3' 0"
" "	83	5' 6"	27/11 "	84	2' 0"	" "	88	4' 0"
" "	81	8' 6"	" "	85	8' 0"	" "	85	7' 0"
" "	68	2' 0"	" "	72	3' 0"	" "	82	4' 0"
" "	85	4' 0"	" "	82	4' 0"	" "	84	6' 0"
24/11 "	90	6' 0"	" "	84	5' 5"	" "	83	7' 0"
" "	84	4' 0"	" "	90	5' 0"	" "	82	7' 0"
" "	86	9' 0"	28/11 "	81	8' 6"	" "	90	4' 0"
" "	92	3' 0"	" "	89	5' 0"	" "	90	6' 0"
" "	85	4' 0"	" "	80	5' 0"	" "	81	4' 0"
" "	85	4' 0"	" "	88	5' 0"	" "	88	3' 6"
" "	85	5' 0"	" "	85	6' 0"	" "	84	6' 0"
" "	84	6' 2"	" "	90	8' 0"	" "	81	6' 0"
" "	80	4' 0"	" "	90	4' 0"	" "	84	7' 0"
" "	86	3' 0"	" "	90	14' 0"	" "	87	9' 0"
" "	70	6' 0"	" "	81	3' 0"	" "	89	7' 0"
" "	87	3' 0"	" "	87	3' 0"	" "	83	5' 0"
" "	86	3' 0"	" "	78	4' 0"	" "	87	3' 0"
" "	77	6' 0"	" "	83	7' 0"	2/12 "	86	8' 0"
" "	87	4' 0"	" "	86	4' 0"	" "	82	3' 0"

Table No. 10 (continued).

Date when measured.	Length.		Date when measured.	Length.		Date when measured.	Length.	
	Mother.	Foetus.		Mother.	Foetus.		Mother.	Foetus.
	Engl. feet.	Engl. feet.		Engl. feet.	Engl. feet.		Engl. feet.	Engl. feet.
² / ₁₂ 32	84	6' 0"	⁵ / ₁₂ 32	83	7' 0"	⁸ / ₁₂ 32	89	9' 0"
" "	83	3' 6"	" "	96	6' 0"	" "	88	4' 0"
" "	82	4' 6"	" "	92	8' 0"	" "	90	8' 0"
" "	80	4' 5"	" "	76	4' 0"	" "	91	12' 0"
" "	87	7' 0"	" "	90	2' 0"	" "	81	10' 0"
" "	81	4' 0"	" "	88	5' 0"	" "	92	14' 0"
" "	82	4' 0"	" "	90	6' 0"	" "	88	5' 0"
" "	85	5' 0"	" "	87	1' 3"	" "	88	5' 6"
" "	88	8' 0"	" "	88	9' 6"	" "	87	6' 0"
" "	78	4' 0"	" "	85	7' 0"	" "	90	7' 0"
" "	86	6' 6"	" "	81	6' 0"	" "	78	6' 0"
" "	81	2' 0"	" "	87	3' 6"	" "	82	5' 0"
" "	76	2' 0"	" "	87	5' 0"	" "	84	6' 0"
" "	82	8' 0"	" "	85	11' 0"	" "	84	4' 0"
" "	81	5' 0"	" "	83	6' 0"	" "	72	4' 0"
" "	81	7' 0"	⁶ / ₁₂ "	91	9' 0"	" "	86	3' 0"
³ / ₁₂ "	80	2' 6"	" "	84	10' 0"	" "	87	5' 0"
" "	88	4' 0"	" "	83	6' 0"	⁹ / ₁₂ "	83	8' 0"
" "	88	4' 0"	" "	91	10' 0"	" "	85	9' 0"
" "	83	4' 0"	" "	86	6' 0"	" "	89	10' 0"
" "	88	3' 6"	" "	86	10' 0"	" "	93	15' 0"
" "	90	4' 0"	" "	87	8' 0"	" "	92	4' 0"
" "	76	3' 0"	" "	84	5' 6"	" "	93	6' 0"
" "	81	6' 0"	" "	82	8' 0"	" "	82	9' 0"
" "	88	8' 0"	" "	84	3' 0"	" "	92	9' 0"
" "	89	16' 0"	" "	84	5' 0"	" "	90	4' 0"
" "	90	8' 0"	" "	78	7' 0"	" "	86	3' 0"
" "	93	6' 0"	" "	91	9' 0"	" "	86	7' 0"
" "	82	4' 0"	" "	83	8' 0"	" "	85	9' 0"
" "	89	6' 0"	" "	88	7' 6"	" "	84	5' 0"
" "	88	3' 0"	" "	81	6' 0"	" "	84	7' 0"
" "	85	4' 0"	" "	80	4' 0"	" "	82	4' 3"
" "	80	9' 0"	" "	80	9' 0"	" "	92	6' 0"
" "	88	7' 0"	" "	82	4' 0"	" "	96	6' 0"
" "	81	7' 0"	⁷ / ₁₂ "	87	4' 6"	" "	84	4' 0"
" "	87	3' 0"	" "	83	3' 0"	" "	80	3' 0"
⁴ / ₁₂ "	90	4' 6"	" "	79	5' 0"	" "	83	5' 0"
" "	92	5' 0"	" "	84	5' 0"	" "	91	11' 0"
" "	87	7' 0"	" "	89	8' 0"	" "	88	14' 0"
" "	81	3' 0"	" "	80	6' 0"	" "	86	9' 6"
" "	83	5' 0"	" "	95	6' 0"	" "	90	6' 0"
" "	81	5' 0"	" "	91	6' 0"	" "	86	4' 0"
" "	88	8' 0"	" "	95	6' 0"	" "	81	12' 0"
" "	85	6' 0"	" "	94	6' 0"	" "	86	7' 0"
" "	90	8' 0"	" "	90	6' 0"	" "	90	1' 6"
" "	90	8' 0"	" "	86	7' 0"	¹⁰ / ₁₂ "	92	10' 6"
" "	90	7' 0"	" "	83	8' 0"	" "	88	6' 0"
" "	93	7' 0"	" "	86	9' 0"	" "	85	5' 0"
" "	82	6' 0"	" "	83	5' 0"	" "	86	5' 0"
" "	86	3' 0"	" "	80	2' 0"	" "	88	8' 0"
" "	83	4' 0"	" "	81	5' 0"	" "	87	2' 0"
" "	87	6' 0"	" "	89	7' 0"	" "	95	7' 0"
" "	85	6' 0"	" "	83	7' 0"	" "	90	4' 0"
" "	83	4' 0"	" "	87	2' 0"	" "	88	5' 0"
⁵ / ₁₂ "	89	6' 0"	" "	86	4' 0"	" "	83	6' 0"
" "	91	6' 0"	" "	83	6' 0"	" "	75	3' 0"
" "	87	3' 0"	⁸ / ₁₂ "	86	3' 0"	" "	81	3' 6"
" "	87	8' 0"	" "	90	3' 0"	" "	85	7' 0"

Table No. 10 (continued).

Date when measured.	Length.		Date when measured.	Length.		Date when measured.	Length.	
	Mother.	Foetus.		Mother.	Foetus.		Mother.	Foetus.
	Engl. feet.	Engl. feet.		Engl. feet.	Engl. feet.		Engl. feet.	Engl. feet.
¹⁰ / ₁₂ 32	88	4' 0"	¹³ / ₁₂ 32	88	3' 0"	¹⁵ / ₁₂ 32	81	11' 0"
" "	88	5' 0"	" "	88	3' 0"	¹⁶ / ₁₂ "	88	9' 0"
" "	88	4' 0"	" "	81	6' 0"	" "	86	7' 0"
" "	86	4' 0"	" "	91	10' 0"	" "	87	6' 0"
" "	85	7' 0"	" "	85	3' 0"	" "	85	8' 0"
" "	82	6' 0"	" "	80	6' 0"	" "	90	9' 0"
" "	85	10' 0"	" "	85	2' 6"	" "	82	10' 0"
" "	83	4' 0"	" "	83	6' 0"	" "	84	4' 0"
" "	81	4' 6"	¹⁴ / ₁₂ "	85	2' 0"	" "	88	5' 0"
¹¹ / ₁₂ "	92	9' 6"	" "	82	2' 0"	" "	82	9' 5"
" "	87	6' 0"	" "	85	5' 0"	" "	92	2' 0"
" "	84	3' 0"	" "	84	3' 0"	" "	90	6' 0"
" "	91	4' 0"	" "	93	11' 0"	" "	90	2' 0"
" "	84	5' 0"	" "	91	5' 0"	" "	85	7' 0"
" "	88	4' 6"	" "	81	3' 0"	" "	87	9' 0"
" "	84	10' 0"	" "	82	6' 0"	" "	87	4' 6"
" "	81	7' 0"	" "	82	9' 0"	" "	82	6' 0"
" "	83	6' 0"	" "	85	9' 0"	" "	87	5' 0"
" "	83	4' 0"	" "	85	5' 0"	" "	80	6' 0"
" "	86	1' 0"	" "	89	3' 0"	" "	84	8' 0"
" "	90	4' 0"	" "	92	3' 0"	" "	80	3' 0"
" "	83	4' 0"	" "	90	3' 0"	" "	85	7' 0"
" "	81	5' 0"	" "	90	4' 0"	¹⁷ / ₁₂ "	92	10' 0"
" "	82	8' 0"	" "	80	2' 6"	" "	89	8' 0"
" "	81	6' 0"	" "	90	3' 0"	" "	90	6' 0"
" "	88	9' 0"	" "	84	11' 0"	" "	90	3' 0"
" "	86	9' 0"	" "	86	4' 0"	" "	79	8' 0"
" "	88	2' 0"	" "	91	13' 0"	" "	88	9' 0"
" "	90	4' 0"	" "	87	4' 0"	" "	83	8' 0"
" "	92	11' 0"	" "	82	5' 0"	" "	86	8' 0"
" "	85	4' 6"	" "	85	9' 0"	" "	85	6' 0"
¹² / ₁₂ "	86	5' 0"	¹⁵ / ₁₂ "	84	2' 0"	" "	85	2' 0"
" "	93	6' 0"	" "	88	7' 0"	" "	88	6' 0"
" "	84	5' 0"	" "	87	9' 0"	" "	88	6' 0"
" "	80	4' 1"	" "	92	11' 0"	" "	94	6' 0"
" "	79	10' 0"	" "	85	5' 0"	" "	87	10' 0"
" "	90	4' 0"	" "	86	6' 0"	" "	82	10' 0"
" "	91	9' 0"	" "	83	8' 0"	" "	80	4' 0"
" "	88	9' 0"	" "	86	8' 0"	" "	87	4' 0"
" "	87	7' 0"	" "	92	12' 0"	" "	87	4' 0"
" "	82	4' 0"	" "	79	7' 0"	" "	78	3' 0"
" "	82	5' 0"	" "	83	14' 0"	" "	86	3' 6"
" "	85	7' 0"	" "	86	11' 0"	¹⁸ / ₁₂ "	90	13' 0"
" "	78	7' 0"	" "	84	5' 9"	" "	86	7' 0"
" "	82	6' 0"	" "	90	4' 0"	" "	90	10' 0"
" "	88	5' 0"	" "	90	4' 0"	" "	90	8' 0"
¹³ / ₁₂ "	86	8' 0"	" "	90	4' 0"	" "	85	5' 6"
" "	86	6' 0"	" "	85	3' 0"	" "	86	7' 0"
" "	88	9' 6"	" "	90	4' 0"	" "	85	11' 0"
" "	84	11' 0"	" "	84	2' 6"	" "	87	10' 0"
" "	85	6' 0"	" "	84	3' 0"	" "	84	8' 0"
" "	94	10' 0"	" "	84	5' 0"	" "	80	9' 0"
" "	84	5' 0"	" "	84	9' 0"	" "	85	8' 0"
" "	81	9' 0"	" "	77	8' 0"	" "	84	13' 0"
" "	85	12' 0"	" "	80	2' 0"	" "	86	6' 0"
" "	88	4' 0"	" "	81	5' 0"	" "	89	6' 0"
" "	88	4' 0"	" "	84	8' 0"	" "	86	7' 0"
" "	90	15' 0"	" "	75	8' 0"	" "	80	10' 0"

Table No. 10 (continued).

Date when measured.	Length.		Date when measured.	Length.		Date when measured.	Length.	
	Mother.	Foetus.		Mother.	Foetus.		Mother.	Foetus.
	Engl. feet.	Engl. feet.		Engl. feet.	Engl. feet.		Engl. feet.	Engl. feet.
18/12 32	83	3'0"	20/12 32	86	2'3"	25/12 32	76	7'0"
" "	82	5'0"	" "	85	9'0"	" "	79	4'0"
" "	87	10'0"	21/12 "	98	1'6"	" "	90	12'0"
" "	87	4'0"	" "	80	8'0"	26/12 "	92	4'6"
" "	85	4'0"	" "	87	10'7"	" "	82	8'0"
" "	83	4'0"	" "	83	8'0"	" "	85	1'0"
" "	89	4'0"	" "	76	3'0"	" "	83	6'0"
" "	81	5'0"	" "	80	5'0"	" "	88	3'0"
" "	87	8'0"	" "	84	7'0"	" "	82	12'0"
" "	87	9'0"	" "	87	4'6"	" "	96	4'0"
19/12 "	86	11'0"	" "	86	6'0"	" "	92	8'0"
" "	85	4'0"	" "	90	9'0"	" "	85	4'0"
" "	83	5'0"	" "	82	14'0"	" "	77	5'0"
" "	82	4'0"	" "	75	3'0"	" "	84	9'0"
" "	84	2'0"	22/12 "	85	4'0"	" "	86	12'0"
" "	85	12'0"	" "	86	4'6"	" "	86	7'0"
" "	86	11'0"	" "	85	6'0"	27/12 "	86	10'0"
" "	75	11'0"	" "	86	5'0"	" "	90	11'0"
" "	78	7'0"	" "	85	4'0"	" "	83	5'0"
" "	93	5'0"	" "	87	6'0"	" "	85	4'0"
" "	88	6'0"	" "	84	9'0"	" "	78	3'0"
" "	95	8'0"	" "	78	4'0"	" "	88	13'0"
" "	89	4'0"	" "	87	8'6"	" "	95	3'0"
" "	92	8'0"	" "	92	4'0"	" "	88	4'0"
" "	83	5'0"	" "	88	9'0"	" "	85	12'0"
" "	86	4'0"	" "	92	12'0"	" "	81	7'0"
" "	88	10'0"	" "	84	8'0"	" "	83	5'0"
" "	82	10'0"	" "	85	12'0"	28/12 "	87	4'0"
" "	86	5'0"	" "	92	8'0"	" "	89	5'0"
" "	84	7'0"	" "	87	6'0"	" "	79	1'3"
" "	82	6'0"	" "	85	6'0"	" "	81	11'0"
" "	87	6'0"	" "	91	12'0"	" "	87	9'0"
" "	80	4'0"	" "	92	3'6"	" "	87	7'6"
" "	83	5'0"	23/12 "	88	4'0"	" "	85	9'0"
" "	83	7'0"	" "	89	9'0"	" "	84	7'6"
" "	83	7'4"	" "	94	7'0"	" "	81	11'0"
" "	88	5'0"	" "	89	5'0"	" "	95	8'0"
20/12 "	92	4'0"	" "	85	5'0"	" "	83	10'0"
" "	75	6'3"	" "	89	6'0"	29/12 "	85	4'0"
" "	83	5'6"	" "	86	5'0"	" "	90	7'0"
" "	94	7'0"	" "	87	8'0"	" "	89	4'0"
" "	81	15'0"	" "	87	12'0"	" "	85	5'0"
" "	90	12'0"	" "	85	4'0"	" "	80	10'0"
" "	84	6'0"	" "	85	9'0"	" "	82	10'0"
" "	82	6'0"	" "	81	3'0"	" "	88	1'6"
" "	89	2'0"	" "	84	10'0"	" "	88	6'0"
" "	86	6'0"	" "	80	4'0"	" "	81	7'6"
" "	89	6'0"	" "	84	4'6"	" "	84	5'0"
" "	87	7'0"	" "	76	5'0"	" "	82	3'6"
" "	80	4'0"	24/12 "	86	14'0"	" "	87	1'6"
" "	83	5'0"	" "	81	3'0"	30/12 "	86	5'0"
" "	83	7'0"	" "	82	8'0"	" "	86	4'0"
" "	86	6'0"	" "	70	6'0"	" "	86	8'0"
" "	90	7'0"	" "	84	13'0"	" "	87	10'0"
" "	84	6'0"	" "	84	3'0"	" "	81	7'0"
" "	84	7'0"	" "	83	10'0"	" "	84	12'0"
" "	81	3'0"	" "	81	4'0"	" "	86	7'0"
" "	78	3'0"	25/12 "	88	12'0"	" "	85	14'0"

Table No. 10 (continued).

Date when measured.	Length.		Date when measured.	Length.		Date when measured.	Length.	
	Mother.	Foetus.		Mother.	Foetus.		Mother.	Foetus.
	Engl. feet.	Engl. feet.		Engl. feet.	Engl. feet.		Engl. feet.	Engl. feet.
³⁰ / ₁₂ 32	91	6' 0"	² / ₁ 33	90	9' 0"	⁵ / ₁ 33	89	7' 0"
" "	87	10' 0"	" "	85	4' 0"	" "	84	7' 0"
" "	80	10' 0"	" "	85	10' 0"	⁶ / ₁ "	86	8' 0"
" "	86	6' 0"	" "	96	7' 0"	" "	88	10' 0"
" "	84	8' 0"	" "	89	8' 0"	" "	94	14' 0"
" "	87	14' 0"	" "	82	9' 0"	" "	87	6' 0"
" "	86	10' 0"	" "	91	12' 0"	" "	86	4' 0"
" "	86	5' 0"	³ / ₁ "	85	8' 0"	" "	83	5' 0"
" "	89	9' 6"	" "	86	6' 0"	" "	86	4' 0"
" "	82	9' 0"	" "	89	10' 0"	" "	87	7' 0"
³¹ / ₁₂ "	85	9' 0"	" "	87	7' 0"	" "	94	12' 0"
" "	80	8' 0"	" "	83	11' 0"	" "	84	9' 0"
" "	86	10' 0"	" "	88	7' 0"	" "	82	6' 0"
" "	88	10' 0"	" "	86	4' 0"	" "	88	14' 5"
" "	83	6' 0"	" "	88	10' 0"	" "	84	5' 0"
" "	82	7' 0"	" "	83	14' 0"	" "	82	8' 0"
" "	80	9' 0"	" "	90	8' 0"	⁷ / ₁ "	88	10' 0"
" "	90	11' 0"	" "	85	8' 0"	" "	86	7' 0"
" "	84	9' 0"	" "	72	4' 0"	" "	86	6' 0"
" "	86	7' 0"	" "	86	11' 0"	" "	90	14' 0"
" "	87	12' 0"	" "	84	9' 0"	" "	87	4' 0"
" "	93	10' 0"	" "	86	11' 0"	" "	82	7' 0"
" "	83	6' 4"	" "	86	6' 0"	" "	84	3' 0"
¹ / ₁ 33	86	6' 0"	" "	82	9' 2"	" "	85	7' 6"
" "	84	5' 0"	" "	87	10' 0"	" "	92	8' 0"
" "	85	4' 0"	" "	82	12' 0"	" "	97	12' 0"
" "	89	8' 0"	⁴ / ₁ "	82	6' 0"	" "	86	4' 0"
" "	95	14' 0"	" "	90	10' 0"	" "	86	12' 0"
" "	88	7' 0"	" "	91	11' 0"	" "	87	11' 6"
" "	90	2' 0"	" "	84	6' 0"	" "	86	8' 0"
" "	84	12' 0"	" "	84	6' 0"	⁸ / ₁ "	85	9' 0"
" "	82	8' 0"	" "	85	12' 0"	" "	86	11' 0"
" "	84	4' 0"	" "	87	6' 0"	" "	86	10' 0"
" "	81	7' 0"	" "	82	5' 0"	" "	90	14' 0"
" "	73	3' 0"	" "	89	4' 0"	" "	90	11' 0"
" "	83	4' 0"	" "	85	10' 0"	" "	88	14' 0"
" "	83	8' 4"	" "	85	16' 0"	" "	87	18' 0"
" "	83	5' 6"	" "	93	13' 0"	" "	90	10' 0"
" "	85	7' 4"	" "	93	2' 0"	" "	76	11' 0"
" "	84	8' 9"	" "	85	6' 5"	" "	83	8' 0"
" "	90	12' 1"	" "	79	9' 1"	" "	83	11' 0"
" "	85	11' 0"	" "	86	9' 0"	" "	81	13' 0"
" "	76	8' 0"	" "	72	4' 6"	" "	83	5' 6"
" "	85	9' 0"	" "	87	5' 0"	" "	95	4' 0"
" "	86	18' 0"	" "	87	6' 0"	" "	88	3' 0"
" "	82	10' 6"	⁵ / ₁ "	90	10' 0"	" "	94	2' 0"
² / ₁ "	87	7' 0"	" "	88	14' 0"	" "	90	6' 0"
" "	85	6' 0"	" "	84	7' 0"	" "	83	6' 0"
" "	88	9' 0"	" "	84	6' 0"	" "	86	6' 0"
" "	85	8' 0"	" "	84	15' 0"	" "	84	9' 0"
" "	83	5' 0"	" "	87	8' 6"	" "	87	10' 0"
" "	82	9' 0"	" "	77	18' 0"	" "	87	6' 0"
" "	84	4' 0"	" "	84	3' 0"	" "	79	10' 0"
" "	84	12' 6"	" "	79	6' 0"	" "	83	11' 4"
" "	85	5' 6"	" "	83	4' 6"	⁹ / ₁ "	87	14' 0"
" "	82	10' 0"	" "	85	7' 0"	" "	90	19' 0"
" "	93	14' 0"	" "	88	10' 0"	" "	91	9' 0"
" "	87	8' 0"	" "	84	4' 0"	" "	77	5' 0"

Table No. 10 (continued).

Date when measured.	Length.		Date when measured.	Length.		Date when measured.	Length.	
	Mother.	Foetus.		Mother.	Foetus.		Mother.	Foetus.
	Engl. feet.	Engl. feet.		Engl. feet.	Engl. feet.		Engl. feet.	Engl. feet.
9/1 33	86	13' 0"	12/1 33	84	2' 4"	17/1 33	88	5' 1"
" "	82	10' 0"	13/1 "	85	9' 0"	" "	84	6' 10"
" "	69	6' 0"	" "	91	9' 0"	" "	83	8' 0"
" "	90	4' 0"	" "	84	4' 0"	" "	84	8' 0"
" "	90	8' 0"	" "	87	11' 0"	18/1 "	90	16' 0"
" "	83	11' 6"	" "	80	7' 0"	" "	85	10' 0"
" "	80	8' 0"	" "	83	3' 0"	" "	82	12' 0"
" "	86	9' 0"	" "	73	4' 0"	" "	90	12' 0"
" "	84	8' 6"	" "	79	10' 0"	" "	87	10' 0"
" "	83	6' 4"	" "	84	7' 0"	" "	90	7' 0"
" "	87	4' 0"	" "	87	12' 0"	" "	87	15' 0"
" "	87	1' 3"	" "	88	10' 2"	" "	85	12' 0"
" "	84	2' 1"	" "	86	14' 4"	" "	86	5' 0"
10/1 "	86	7' 0"	" "	87	11' 1"	" "	84	3' 0"
" "	88	10' 0"	" "	80	11' 0"	" "	80	9' 0"
" "	89	11' 0"	14/1 "	90	9' 0"	" "	84	11' 0"
" "	85	9' 0"	" "	91	13' 0"	" "	82	12' 0"
" "	79	5' 0"	" "	85	6' 0"	" "	86	11' 0"
" "	98	10' 0"	" "	78	6' 0"	" "	86	12' 0"
" "	85	12' 0"	" "	85	12' 0"	" "	78	3' 3"
" "	89	14' 0"	" "	88	12' 6"	" "	87	11' 1"
" "	81	6' 0"	" "	88	21' 0"	" "	81	8' 0"
" "	87	12' 0"	" "	97	14' 0"	19/1 "	83	10' 0"
" "	83	14' 0"	" "	81	2' 0"	" "	83	17' 0"
" "	82	9' 0"	" "	77	10' 0"	" "	85	5' 0"
" "	83	14' 0"	" "	87	8' 0"	" "	90	15' 0"
11/1 "	87	4' 0"	" "	87	10' 0"	" "	82	10' 0"
" "	86	7' 0"	15/1 "	85	10' 0"	" "	90	13' 0"
" "	80	7' 0"	" "	90	12' 0"	" "	96	17' 0"
" "	80	3' 0"	" "	81	6' 0"	" "	78	8' 0"
" "	83	12' 0"	" "	79	3' 0"	" "	84	6' 0"
" "	85	15' 0"	" "	79	8' 0"	" "	85	10' 0"
" "	86	7' 0"	" "	87	15' 0"	" "	86	6' 0"
" "	89	10' 0"	" "	78	6' 0"	" "	86	6' 0"
" "	83	11' 0"	" "	89	7' 0"	" "	86	10' 0"
" "	84	17' 1"	" "	82	9' 4"	" "	89	7' 6"
" "	83	14' 0"	" "	79	5' 9"	20/1 "	90	14' 0"
12/1 "	88	11' 0"	" "	88	17' 4"	" "	85	7' 0"
" "	85	7' 0"	16/1 "	96	5' 0"	" "	90	8' 0"
" "	89	10' 0"	" "	83	7' 0"	" "	76	11' 0"
" "	82	5' 0"	" "	85	12' 0"	" "	85	2' 0"
" "	85	8' 0"	" "	88	9' 0"	" "	87	16' 0"
" "	81	7' 0"	" "	84	2' 0"	" "	88	4' 0"
" "	89	1' 6"	" "	88	10' 11"	" "	95	2' 0"
" "	84	5' 0"	17/1 "	80	7' 0"	" "	89	12' 0"
" "	86	10' 0"	" "	83	12' 0"	" "	95	16' 0"
" "	88	14' 0"	" "	88	16' 0"	" "	89	12' 0"
" "	88	20' 0"	" "	80	4' 0"	" "	79	12' 0"
" "	81	6' 0"	" "	81	3' 0"	" "	84	15' 0"
" "	88	15' 0"	" "	90	12' 0"	" "	86	14' 4"
" "	78	12' 0"	" "	90	9' 0"	" "	87	5' 0"
" "	86	10' 0"	" "	79	3' 0"	" "	86	13' 0"
" "	88	10' 0"	" "	88	3' 0"	21/1 "	85	10' 0"
" "	76	10' 4"	" "	80	11' 0"	" "	90	20' 0"
" "	81	12' 1"	" "	87	14' 0"	" "	88	10' 0"
" "	84	10' 1"	" "	80	13' 0"	" "	86	8' 0"
" "	86	11' 6"	" "	71	14' 0"	" "	93	6' 0"
" "	89	14' 11"	" "	83	12' 0"	" "	85	14' 0"

Table No. 10 (continued).

Date when measured.	Length.		Date when measured.	Length.		Date when measured.	Length.	
	Mother.	Foetus.		Mother.	Foetus.		Mother.	Foetus.
	Engl. feet.	Engl. feet.		Engl. feet.	Engl. feet.		Engl. feet.	Engl. feet.
$21\frac{1}{1}$ 33	85	15' 0"	$25\frac{1}{1}$ 33	79	11' 0"	$30\frac{1}{1}$ 33	81	9' 0"
" "	94	6' 0"	" "	91	8' 6"	" "	83	9' 0"
" "	83	6' 0"	" "	87	12' 5"	" "	78	13' 0"
" "	86	11' 5"	" "	80	7' 0"	" "	83	9' 0"
" "	81	10' 0"	" "	87	8' 0"	" "	85	12' 0"
" "	81	10' 0"	$26\frac{1}{1}$ "	85	4' 0"	" "	81	8' 0"
" "	83	5' 0"	" "	88	18' 0"	" "	93	21' 0"
$22\frac{1}{1}$ "	92	14' 0"	" "	88	20' 0"	" "	86	16' 0"
" "	98	11' 0"	" "	81	16' 0"	" "	79	7' 0"
" "	89	5' 0"	" "	80	12' 0"	" "	86	11' 4"
" "	89	15' 0"	" "	81	10' 0"	" "	84	15' 0"
" "	79	5' 0"	" "	84	9' 0"	$31\frac{1}{1}$ "	85	10' 0"
" "	83	6' 0"	" "	87	6' 6"	" "	84	19' 0"
" "	98	5' 6"	" "	85	12' 0"	" "	82	12' 0"
" "	85	6' 0"	" "	85	11' 6"	" "	94	10' 0"
" "	85	12' 0"	" "	91	15' 0"	" "	85	4' 0"
" "	79	10' 0"	" "	77	3' 0"	" "	86	10' 1"
" "	80	12' 0"	" "	82	11' 0"	" "	71	9' 0"
" "	80	7' 0"	" "	85	5' 0"	" "	84	10' 0"
" "	82	8' 0"	" "	83	6' 0"	$1\frac{1}{2}$ "	87	7' 0"
" "	81	11' 0"	" "	90	12' 0"	" "	85	8' 0"
" "	77	7' 0"	$27\frac{1}{1}$ "	87	8' 0"	" "	83	6' 0"
" "	89	15' 0"	" "	85	10' 0"	" "	82	3' 0"
" "	81	7' 0"	" "	88	12' 0"	" "	89	5' 0"
$23\frac{1}{1}$ "	88	12' 0"	" "	83	14' 0"	" "	90	14' 0"
" "	82	13' 0"	" "	84	12' 0"	" "	81	14' 0"
" "	90	15' 0"	" "	76	11' 0"	" "	75	5' 4"
" "	85	10' 0"	" "	86	8' 0"	" "	84	15' 4"
" "	86	5' 0"	" "	88	5' 0"	$2\frac{1}{2}$ "	85	15' 0"
" "	86	10' 0"	" "	87	11' 0"	" "	88	13' 0"
" "	81	11' 0"	" "	81	4' 0"	" "	81	15' 0"
" "	84	11' 0"	" "	89	13' 0"	" "	86	7' 0"
" "	82	11' 6"	" "	87	13' 0"	" "	82	12' 0"
" "	84	9' 6"	" "	86	8' 10"	" "	91	15' 0"
" "	79	8' 0"	" "	86	12' 0"	" "	86	12' 0"
" "	78	9' 0"	$28\frac{1}{1}$ "	85	8' 0"	" "	87	11' 4"
" "	80	10' 0"	" "	86	10' 0"	" "	82	15' 4"
" "	80	11' 6"	" "	91	6' 0"	" "	85	16' 0"
" "	88	4' 2"	" "	81	14' 0"	" "	75	15' 0"
" "	84	18' 0"	" "	87	16' 0"	" "	89	13' 0"
" "	87	20' 0"	" "	89	12' 6"	$3\frac{1}{2}$ "	88	10' 0"
" "	87	6' 0"	" "	80	11' 0"	" "	90	6' 0"
" "	69	10' 0"	" "	91	12' 0"	" "	85	2' 6"
$24\frac{1}{1}$ "	90	8' 0"	" "	80	13' 0"	" "	86	8' 0"
" "	81	7' 0"	" "	88	16' 0"	" "	83	14' 0"
" "	82	10' 0"	" "	87	10' 0"	" "	86	5' 0"
" "	78	4' 0"	" "	88	9' 4"	" "	85	6' 0"
" "	85	13' 0"	" "	82	10' 0"	" "	82	5' 0"
" "	83	10' 0"	" "	74	10' 0"	" "	82	10' 0"
" "	83	11' 0"	" "	89	6' 0"	" "	87	2' 0"
" "	83	5' 0"	$29\frac{1}{1}$ "	83	8' 0"	" "	87	16' 4"
" "	84	10' 1"	" "	91	14' 0"	" "	86	12' 0"
$25\frac{1}{1}$ "	90	13' 0"	" "	83	9' 0"	" "	89	15' 0"
" "	84	12' 0"	" "	86	4' 0"	$4\frac{1}{2}$ "	86	13' 0"
" "	94	14' 0"	" "	87	8' 7"	" "	83	11' 0"
" "	89	14' 0"	" "	89	15' 9"	" "	85	12' 0"
" "	80	12' 6"	" "	79	11' 0"	" "	84	20' 0"
" "	80	9' 0"	$30\frac{1}{1}$ "	85	15' 0"	" "	84	7' 0"

Table No. 10 (continued).

Date when measured.	Length.		Date when measured.	Length.		Date when measured.	Length.	
	Mother.	Foetus.		Mother.	Foetus.		Mother.	Foetus.
	Engl. feet.	Engl. feet.		Engl. feet.	Engl. feet.		Engl. feet.	Engl. feet.
$4\frac{1}{2}$ 33	81	10' 0"	$10\frac{1}{2}$ 33	76	13' 0"	$18\frac{1}{2}$ 33	87	17' 0"
" "	87	16' 0"	" "	92	14' 0"	" "	85	12' 0"
" "	90	15' 0"	$11\frac{1}{2}$ "	89	13' 0"	" "	88	15' 0"
" "	85	14' 0"	" "	85	8' 0"	$19\frac{1}{2}$ "	86	23' 0"
$5\frac{1}{2}$ "	90	12' 0"	" "	88	8' 0"	" "	86	14' 0"
" "	85	12' 0"	" "	80	5' 0"	" "	86	17' 0"
" "	91	10' 0"	" "	78	7' 0"	" "	90	16' 0"
" "	82	15' 0"	" "	86	8' 0"	$20\frac{1}{2}$ "	85	20' 0"
" "	88	16' 0"	" "	89	16' 0"	" "	82	8' 0"
" "	73	7' 0"	" "	83	8' 0"	" "	85	8' 0"
" "	86	14' 0"	" "	85	18' 0"	" "	85	14' 0"
" "	81	9' 0"	" "	85	11' 0"	" "	84	6' 0"
" "	85	14' 0"	" "	81	12' 0"	" "	90	13' 0"
" "	80	12' 0"	" "	89	12' 0"	" "	85	14' 4"
" "	86	8' 0"	" "	84	8' 0"	$21\frac{1}{2}$ "	82	12' 0"
$6\frac{1}{2}$ "	81	13' 0"	" "	85	8' 0"	" "	89	8' 0"
" "	80	14' 0"	$12\frac{1}{2}$ "	82	12' 0"	" "	83	10' 0"
" "	85	17' 0"	" "	85	12' 0"	" "	87	17' 0"
" "	88	15' 0"	" "	89	14' 0"	" "	85	8' 0"
" "	86	{ 11' 0"	" "	83	13' 0"	" "	87	19' 0"
" "	"	{ 13' 0"	" "	93	6' 0"	" "	83	10' 0"
" "	82	10' 0"	$13\frac{1}{2}$ "	87	13' 0"	" "	83	17' 0"
" "	89	16' 0"	" "	89	14' 0"	" "	87	12' 0"
" "	87	16' 0"	" "	82	18' 0"	" "	92	4' 0"
" "	85	15' 0"	" "	91	13' 0"	" "	84	11' 0"
" "	65	11' 0"	" "	90	18' 0"	" "	85	8' 2"
$7\frac{1}{2}$ "	85	14' 0"	" "	79	15' 0"	" "	79	10' 4"
" "	87	20' 0"	" "	80	10' 0"	" "	79	14' 4"
" "	78	8' 0"	" "	87	13' 0"	" "	86	17' 6"
" "	86	14' 0"	" "	84	10' 0"	" "	87	19' 4"
" "	90	11' 0"	" "	87	{ 13' 0"	" "	89	21' 0"
" "	88	14' 0"	" "	"	{ 13' 0"	$22\frac{1}{2}$ "	85	12' 0"
" "	88	14' 0"	" "	90	7' 0"	" "	85	15' 0"
" "	88	{ 17' 0"	" "	86	16' 0"	" "	90	14' 0"
" "	"	{ 18' 0"	" "	88	15' 0"	" "	89	22' 0"
" "	79	8' 0"	" "	87	11' 1"	" "	82	12' 0"
" "	84	10' 4"	$14\frac{1}{2}$ "	82	9' 0"	" "	71	6' 0"
$8\frac{1}{2}$ "	85	8' 0"	" "	86	16' 0"	$23\frac{1}{2}$ "	95	16' 0"
" "	87	13' 0"	" "	89	12' 0"	" "	93	13' 0"
" "	88	8' 0"	" "	83	17' 0"	$24\frac{1}{2}$ "	80	15' 0"
" "	91	19' 0"	" "	84	15' 0"	" "	90	22' 0"
" "	85	15' 0"	" "	85	10' 0"	" "	83	16' 0"
" "	84	11' 0"	$15\frac{1}{2}$ "	82	15' 0"	" "	84	15' 0"
" "	80	5' 0"	" "	85	12' 0"	" "	97	5' 0"
" "	83	8' 0"	" "	90	15' 0"	" "	86	16' 0"
" "	85	11' 0"	" "	80	15' 0"	$25\frac{1}{2}$ "	82	12' 0"
$9\frac{1}{2}$ "	83	12' 0"	" "	89	13' 0"	" "	88	15' 0"
" "	87	8' 0"	" "	76	11' 0"	" "	90	20' 0"
" "	86	16' 0"	$16\frac{1}{2}$ "	83	6' 0"	" "	83	12' 0"
" "	81	12' 0"	" "	87	11' 0"	" "	77	13' 0"
" "	82	14' 0"	" "	87	16' 0"	" "	89	7' 0"
" "	84	10' 0"	" "	84	9' 0"	" "	84	15' 0"
" "	84	10' 0"	$17\frac{1}{2}$ "	89	13' 0"	" "	87	8' 4"
" "	80	10' 0"	" "	88	12' 0"	" "	71	5' 6"
" "	81	9' 0"	" "	90	15' 0"	$26\frac{1}{2}$ "	83	12' 0"
" "	83	12' 0"	" "	88	2' 0"	" "	86	20' 0"
$10\frac{1}{2}$ "	81	7' 0"	" "	90	4' 0"	" "	95	15' 0"
" "	85	14' 0"	$18\frac{1}{2}$ "	88	18' 0"	" "	86	16' 0"

Table No. 10 (continued).

Date when measured.	Length.		Date when measured.	Length.		Date when measured.	Length.	
	Mother.	Foetus.		Mother.	Foetus.		Mother.	Foetus.
	Engl. feet.	Engl. feet.		Engl. feet.	Engl. feet.		Engl. feet.	Engl. feet.
$26/2$ 33	90	16' 0"	$6/3$ 33	86	8' 1"	$19/3$ 33	91	18' 0"
" "	80	5' 0"	" "	78	15' 4"	$20/3$ "	96	8' 0"
" "	87	14' 0"	" "	83	14' 0"	$21/3$ "	81	14' 0"
" "	84	18' 0"	" "	86	20' 0"	$22/3$ "	80	10' 6"
" "	85	6' 2"	$7/3$ "	84	12' 6"	" "	87	25' 6"
" "	88	16' 4"	" "	86	18' 6"	" "	82	19' 6"
" "	82	13' 0"	" "	77	5' 4"	$23/3$ "	85	18' 0"
$27/2$ "	90	12' 0"	" "	85	13' 0"	$24/3$ "	94	23' 0"
" "	90	15' 0"	" "	87	13' 0"	" "	83	10' 3"
" "	91	3' 0"	" "	85	9' 0"	" "	86	17' 1"
" "	87	15' 0"	$8/3$ "	85	18' 0"	" "	87	12' 0"
" "	70	6' 0"	" "	84	15' 0"	$25/3$ "	88	20' 0"
" "	83	16' 0"	$9/3$ "	84	15' 0"	" "	85	17' 0"
$28/2$ "	87	20' 0"	" "	87	21' 0"	" "	81	14' 4"
" "	86	13' 0"	" "	75	8' 0"	" "	89	16' 0"
" "	88	19' 0"	$10/3$ "	84	18' 0"	$27/3$ "	88	26' 0"
" "	89	10' 0"	" "	81	18' 0"	" "	90	20' 0"
$1/3$ "	88	16' 0"	" "	85	16' 0"	$28/3$ "	80	11' 4"
" "	91	21' 0"	$11/3$ "	84	8' 0"	" "	85	15' 0"
" "	84	8' 0"	" "	88	18' 0"	" "	87	20' 0"
" "	79	14' 0"	" "	90	19' 0"	$29/3$ "	89	22' 0"
" "	89	14' 0"	" "	88	7' 0"	" "	80	12' 5"
" "	68	11' 0"	$12/3$ "	86	7' 0"	" "	85	14' 0"
" "	85	20' 6"	$13/3$ "	88	9' 0"	$30/3$ "	85	11' 4"
$2/3$ "	91	24' 0"	" "	83	7' 0"	" "	90	22' 0"
" "	90	21' 0"	" "	85	20' 0"	$31/3$ "	78	11' 0"
" "	85	15' 0"	" "	85	14' 4"	" "	90	22' 0"
" "	93	18' 0"	" "	90	18' 0"	$1/4$ "	83	17' 4"
" "	89	16' 0"	" "	88	20' 0"	" "	75	15' 1"
" "	82	18' 4"	$14/3$ "	82	8' 0"	" "	86	16' 0"
" "	80	9' 1"	" "	82	17' 1"	$2/4$ "	78	14' 4"
" "	87	10' 0"	" "	91	20' 1"	" "	86	15' 0"
$3/3$ "	68	9' 0"	$15/3$ "	86	19' 0"	$3/4$ "	80	14' 4"
" "	85	15' 0"	" "	86	20' 4"	" "	86	24' 0"
" "	72	3' 6"	" "	84	15' 0"	" "	86	15' 0"
" "	81	16' 7"	" "	84	16' 0"	" "	88	18' 0"
$4/3$ "	85	18' 0"	$16/3$ "	86	12' 0"	$5/4$ "	88	22' 0"
" "	80	10' 0"	" "	87	18' 0"	$6/4$ "	87	18' 4"
" "	89	19' 0"	" "	83	10' 0"	" "	80	12' 0"
" "	89	8' 0"	" "	84	12' 0"	" "	84	13' 0"
" "	85	18' 0"	$17/3$ "	83	18' 0"	" "	91	23' 0"
" "	91	20' 0"	" "	85	16' 0"	$7/4$ "	82	18' 0"
" "	76	17' 6"	$18/3$ "	96	5' 0"	" "	87	14' 0"
$5/3$ "	88	19' 0"	" "	84	16' 0"	$8/4$ "	71	12' 0"
" "	80	16' 0"	" "	75	13' 0"	" "	84	18' 0"
" "	80	18' 0"	" "	89	23' 0"	" "	85	18' 0"
" "	89	4' 5"	" "	88	14' 0"	$9/4$ "	91	24' 1"
$6/3$ "	87	7' 0"	" "	84	15' 0"	" "	77	3' 4"
" "	82	6' 0"	" "	88	19' 0"	" "	70	6' 9"
" "	86	16' 6"	" "	86	17' 0"	" "	78	7' 0"
" "	79	7' 1"	" "	88	23' 0"	" "		

Total 1,877 blue-whale foetuses, of which 13 twin-foetuses.

Table No. 10 (continued).

2. Fin-whale foetuses
measured in the Southern Seas in the season 1932/33.

Date when measured.	Length.		Date when measured.	Length.		Date when measured.	Length.	
	Mother.	Foetus.		Mother.	Foetus.		Mother.	Foetus.
	Engl. feet.	Engl. feet.		Engl. feet.	Engl. feet.		Engl. feet.	Engl. feet.
23/10 32	74	3' 6"	13/1 33	75	1' 0"	27/1 33	70	6' 0"
" "	76	4' 0"	" "	58	15' 0"	" "	70	6' 0"
27/10 "	76	2' 0"	14/1 "	66	18' 0"	" "	72	6' 4"
28/10 "	71	3' 0"	" "	85	10' 0"	28/1 "	75	2' 0"
" "	75	4' 0"	" "	70	5' 0"	" "	73	12' 0"
15/11 "	75	3' 0"	15/1 "	76	5' 0"	" "	70	10' 0"
" "	70	4' 0"	" "	76	8' 0"	" "	74	7' 0"
16/11 "	70	0' 1"	" "	72	2' 0"	" "	75	10' 0"
" "	76	4' 0"	17/1 "	70	5' 0"	" "	69	2' 0"
" "	76	5' 0"	" "	68	5' 0"	" "	70	5' 6"
" "	76	6' 0"	" "	79	4' 0"	29/1 "	71	14' 0"
" "	75	3' 6"	" "	78	8' 0"	" "	73	7' 0"
" "	70	3' 0"	" "	72	4' 1"	" "	67	10' 4"
" "	65	6' 0"	" "	74	4' 5"	" "	70	8' 5"
22/11 "	64	19' 6"	18/1 "	74	4' 5"	30/1 "	73	1' 6"
24/11 "	73	4' 0"	19/1 "	76	12' 0"	" "	71	16' 0"
3/12 "	71	5' 0"	" "	70	3' 0"	" "	68	10' 0"
4/12 "	74	3' 6"	" "	69	0' 6"	" "	71	2' 0"
6/12 "	75	5' 0"	" "	80	6' 0"	" "	69	3' 0"
11/12 "	71	10' 0"	" "	78	6' 0"	" "	72	6' 0"
" "	74	3' 6"	" "	70	8' 2"	" "	71	10' 0"
24/12 "	75	7' 0"	20/1 "	69	2' 0"	" "	69	12' 0"
" "	71	7' 0"	" "	70	4' 0"	31/1 "	69	8' 0"
31/12 "	72	11' 0"	" "	73	14' 0"	" "	72	6' 0"
1/1 33	70	5' 0"	21/1 "	77	16' 0"	" "	71	15' 0"
3/1 "	73	1' 0"	" "	70	5' 0"	" "	82	1' 0"
4/1 "	67	5' 0"	" "	73	10' 0"	" "	70	8' 0"
5/1 "	67	12' 0"	" "	75	5' 8"	" "	72	5' 2"
6/1 "	76	6' 0"	22/1 "	70	13' 0"	" "	67	3' 6"
7/1 "	76	4' 0"	" "	64	6' 0"	" "	78	8' 0"
" "	72	7' 0"	" "	64	7' 0"	1/2 "	75	2' 0"
" "	69	1' 2"	" "	78	6' 0"	" "	75	18' 0"
8/1 "	69	15' 0"	" "	70	3' 6"	" "	80	12' 0"
" "	72	12' 0"	23/1 "	77	1' 6"	" "	69	8' 0"
" "	71	6' 0"	" "	78	4' 0"	" "	76	7' 0"
" "	70	5' 0"	" "	78	8' 0"	" "	74	10' 0"
" "	71	9' 5"	24/1 "	74	9' 0"	" "	69	3' 1"
" "	72	8' 6"	" "	76	4' 0"	" "	71	5' 1"
" "	72	8' 6"	" "	80	6' 0"	" "	75	8' 9"
9/1 "	75	7' 0"	" "	73	1' 2"	" "	75	10' 0"
" "	77	2' 0"	25/1 "	73	8' 0"	2/2 "	77	13' 0"
" "	78	10' 0"	" "	75	13' 0"	" "	73	7' 0"
" "	70	4' 4"	" "	77	12' 0"	" "	78	8' 0"
" "	66	4' 1"	" "	74	6' 0"	" "	64	6' 0"
10/1 "	74	0' 5"	26/1 "	68	8' 0"	" "	75	3' 0"
" "	76	1' 0"	" "	65	9' 0"	" "	75	12' 0"
" "	72	5' 0"	" "	72	4' 0"	" "	78	6' 0"
11/1 "	72	5' 0"	" "	74	8' 2"	" "	76	12' 0"
" "	72	9' 4"	" "	72	7' 5"	" "	75	5' 6"
12/1 "	76	10' 0"	27/1 "	70	3' 6"	" "	69	9' 0"
" "	74	7' 6"	" "	68	4' 0"	" "	70	6' 4"
" "	79	2' 0"	" "	74	9' 6"	" "	73	3' 4"
13/1 "	71	6' 0"	" "	72	13' 0"	" "	77	13' 0"
" "			" "	73	8' 0"	" "		

Table No. 10 (continued).

Date when measured.	Length.		Date when measured.	Length.		Date when measured.	Length.	
	Mother.	Foetus.		Mother.	Foetus.		Mother.	Foetus.
	Engl. feet.	Engl. feet.		Engl. feet.	Engl. feet.		Engl. feet.	Engl. feet.
$\frac{2}{2}$ 33	74	8' 9"	$\frac{7}{2}$ 33	71	12' 4"	$\frac{13}{2}$ 33	70	8' 4"
" "	71	7' 6"	" "	70	7' 2"	" "	70	8' 0"
$\frac{3}{2}$ "	73	8' 0"	" "	73	13' 4"	$\frac{14}{2}$ "	74	13' 0"
" "	73	6' 0"	$\frac{8}{2}$ "	70	11' 0"	" "	70	16' 0"
" "	68	16' 0"	$\frac{9}{2}$ "	75	8' 0"	" "	73	9' 0"
" "	75	9' 0"	" "	75	12' 0"	" "	73	8' 0"
" "	75	11' 0"	" "	74	10' 0"	" "	78	4' 0"
" "	68	3' 0"	" "	69	7' 0"	" "	77	6' 0"
" "	72	5' 1"	" "	70	13' 6"	" "	72	10' 0"
" "	75	6' 3"	" "	72	13' 0"	" "	74	14' 0"
" "	70	11' 0"	" "	69	9' 0"	$\frac{15}{2}$ "	70	13' 0"
" "	72	8' 2"	" "	73	3' 0"	" "	77	13' 0"
$\frac{4}{2}$ "	73	7' 0"	" "	76	12' 0"	" "	72	14' 0"
" "	68	5' 0"	" "	74	4' 0"	" "	73	15' 0"
" "	72	6' 0"	" "	69	5' 9"	" "	70	10' 0"
" "	70	4' 0"	" "	72	4' 2"	" "	75	19' 0"
" "	74	6' 0"	" "	73	8' 6"	" "	78	8' 0"
" "	69	4' 0"	" "	74	9' 1"	" "	75	15' 0"
" "	71	12' 0"	" "	71	11' 0"	" "	73	15' 0"
" "	66	6' 9"	$\frac{10}{2}$ "	74	11' 0"	" "	74	15' 0"
" "	71	7' 4"	" "	75	6' 0"	" "	76	14' 0"
" "	69	9' 4"	" "	66	5' 0"	" "	75	14' 0"
" "	70	9' 0"	" "	67	8' 0"	$\frac{16}{2}$ "	77	5' 0"
" "	70	11' 4"	" "	73	18' 0"	" "	72	4' 0"
$\frac{5}{2}$ "	72	8' 0"	" "	73	12' 0"	" "	70	2' 0"
" "	73	3' 0"	" "	69	9' 0"	" "	67	8' 0"
" "	77	12' 0"	" "	67	2' 0"	" "	75	15' 0"
" "	70	2' 0"	" "	68	7' 0"	" "	73	9' 0"
" "	72	7' 0"	" "	72	11' 6"	" "	82	4' 0"
" "	74	10' 0"	$\frac{11}{2}$ "	74	12' 0"	" "	73	12' 0"
" "	73	10' 0"	" "	73	16' 1"	" "	72	3' 0"
" "	68	6' 0"	" "	71	4' 4"	" "	74	9' 0"
" "	73	6' 1"	" "	72	6' 0"	" "	70	5' 6"
" "	78	9' 4"	$\frac{12}{2}$ "	72	8' 0"	" "	75	14' 0"
" "	76	1' 9"	" "	70	6' 0"	" "	72	10' 0"
" "	71	11' 0"	" "	75	8' 0"	" "	79	14' 0"
$\frac{6}{2}$ "	76	7' 0"	" "	74	5' 0"	" "	71	12' 0"
" "	77	8' 0"	" "	73	14' 0"	" "	76	12' 0"
" "	68	3' 0"	" "	70	3' 0"	" "	75	15' 0"
" "	75	7' 0"	" "	72	12' 0"	$\frac{17}{2}$ "	75	10' 0"
" "	74	2' 0"	" "	72	11' 0"	" "	74	8' 0"
" "	72	10' 0"	" "	68	9' 0"	" "	74	18' 0"
" "	70	3' 6"	" "	77	7' 0"	" "	75	6' 0"
" "	73	5' 0"	" "	70	8' 0"	" "	78	2' 0"
" "	69	7' 6"	" "	67	5' 0"	" "	72	9' 6"
" "	75	15' 4"	" "	72	13' 0"	" "	74	11' 0"
$\frac{7}{2}$ "	71	11' 0"	" "	71	7' 0"	" "	75	10' 0"
" "	75	15' 0"	" "	72	11' 4"	" "	71	12' 0"
" "	71	12' 0"	" "	70	8' 6"	" "	74	8' 0"
" "	71	8' 0"	" "	71	9' 4"	" "	75	8' 0"
" "	71	10' 0"	$\frac{13}{2}$ "	77	8' 0"	$\frac{18}{2}$ "	76	14' 0"
" "	78	9' 2"	" "	78	8' 0"	" "	77	16' 0"
" "	64	8' 0"	" "	75	14' 0"	" "	77	10' 0"
" "	73	11' 0"	" "	72	14' 0"	" "	72	5' 0"
" "	75	8' 0"	" "	72	5' 0"	" "	75	5' 0"
" "	65	2' 1"	" "	74	5' 0"	" "	73	10' 0"
" "	74	6' 4"	" "	70	12' 0"	" "	73	15' 0"
" "	70	6' 0"	" "	70	12' 0"	" "	76	14' 0"

Table No. 10 (continued).

Date when measured.	Length.		Date when measured.	Length.		Date when measured.	Length.	
	Mother.	Foetus.		Mother.	Foetus.		Mother.	Foetus.
	Engl. feet.	Engl. feet.		Engl. feet.	Engl. feet.		Engl. feet.	Engl. feet.
$18\frac{1}{2}$ 33	72	9' 0"	$27\frac{1}{2}$ 33	69	3' 0"	$7\frac{1}{3}$ 33	72	9' 0"
" "	69	12' 0"	" "	70	14' 0"	$8\frac{1}{3}$ "	73	15' 0"
" "	74	12' 0"	" "	71	3' 0"	" "	72	12' 0"
" "	76	14' 0"	" "	72	4' 0"	" "	71	8' 0"
" "	73	12' 0"	" "	72	15' 0"	" "	73	9' 0"
$19\frac{1}{2}$ "	73	10' 0"	" "	75	13' 0"	" "	69	7' 0"
" "	72	11' 0"	" "	74	13' 0"	" "	63	7' 0"
" "	72	7' 0"	$28\frac{1}{2}$ "	65	10' 0"	" "	62	18' 4"
" "	71	9' 0"	" "	75	16' 0"	" "	71	8' 1"
" "	76	12' 0"	" "	74	6' 0"	" "	70	14' 0"
" "	72	16' 0"	" "	69	10' 0"	" "	74	9' 0"
" "	70	11' 0"	" "	74	18' 6"	" "	77	8' 0"
$20\frac{1}{2}$ "	71	8' 0"	" "	80	19' 0"	$9\frac{1}{3}$ "	71	9' 0"
" "	70	6' 0"	" "	80	17' 0"	" "	71	11' 0"
" "	70	6' 0"	" "	78	10' 0"	" "	78	6' 0"
" "	80	18' 0"	" "	78	8' 0"	" "	70	5' 0"
" "	73	11' 6"	" "	71	6' 0"	" "	71	7' 0"
" "	72	16' 0"	" "	75	7' 0"	" "	71	10' 0"
" "	75	14' 0"	" "	72	17' 0"	" "	74	17' 1"
" "	76	15' 0"	" "	76	7' 0"	$10\frac{1}{3}$ "	78	6' 0"
" "	72	13' 0"	" "	73	14' 0"	" "	72	6' 0"
" "	72	8' 0"	$1\frac{1}{3}$ "	70	14' 0"	" "	73	10' 0"
$21\frac{1}{2}$ "	70	8' 0"	" "	72	{ 4' 0"	" "	76	6' 0"
" "	70	3' 0"	" "	73	{ 4' 0"	" "	63	8' 0"
" "	74	10' 0"	" "	73	12' 0"	" "	75	8' 0"
" "	70	9' 0"	" "	63	8' 0"	$11\frac{1}{3}$ "	70	12' 0"
" "	73	12' 0"	" "	60	7' 0"	" "	73	4' 0"
" "	72	3' 0"	" "	77	3' 0"	" "	75	18' 0"
" "	73	14' 0"	" "	70	5' 0"	" "	66	12' 0"
" "	74	8' 0"	" "	66	2' 6"	" "	73	14' 0"
" "	74	8' 0"	" "	70	13' 0"	" "	73	8' 0"
$22\frac{1}{2}$ "	77	16' 0"	$2\frac{1}{3}$ "	72	12' 0"	" "	75	10' 0"
" "	68	6' 0"	" "	68	15' 0"	$12\frac{1}{3}$ "	72	12' 0"
" "	70	14' 0"	" "	70	8' 0"	" "	71	11' 0"
" "	69	9' 0"	" "	67	6' 0"	" "	74	15' 0"
" "	68	10' 1"	" "	68	3' 0"	" "	77	{ 16' 0"
$23\frac{1}{2}$ "	66	3' 0"	$3\frac{1}{3}$ "	73	6' 0"	" "	77	{ 12' 0"
" "	66	11' 0"	" "	70	15' 0"	" "	80	{ 8' 0"
" "	73	4' 0"	" "	73	23' 0"	" "	74	{ 5' 6"
" "	75	7' 0"	" "	69	18' 0"	" "	74	9' 0"
$24\frac{1}{2}$ "	70	7' 0"	" "	54	10' 0"	" "	78	17' 0"
" "	67	11' 0"	" "	76	4' 0"	" "	73	3' 6"
" "	74	14' 0"	" "	69	7' 4"	$13\frac{1}{3}$ "	70	8' 0"
" "	76	8' 0"	" "	72	5' 0"	$14\frac{1}{3}$ "	77	12' 0"
" "	74	6' 0"	$4\frac{1}{3}$ "	73	5' 0"	" "	74	19' 0"
" "	73	3' 6"	" "	74	8' 0"	" "	72	11' 0"
$25\frac{1}{2}$ "	70	8' 0"	" "	76	17' 0"	" "	77	11' 0"
" "	73	12' 0"	$5\frac{1}{3}$ "	73	8' 0"	$15\frac{1}{3}$ "	72	15' 0"
" "	72	11' 0"	" "	76	10' 9"	" "	71	11' 9"
" "	76	6' 0"	" "	{ 12' 0"	" "	" "	73	14' 1"
" "	68	12' 0"	$6\frac{1}{3}$ "	75	{ 14' 0"	" "	73	13' 0"
$26\frac{1}{2}$ "	68	8' 0"	" "	65	6' 0"	" "	79	4' 0"
" "	69	15' 0"	" "	68	7' 0"	$16\frac{1}{3}$ "	73	4' 0"
" "	70	5' 0"	$7\frac{1}{3}$ "	70	4' 0"	" "	74	18' 0"
" "	75	18' 0"	" "	72	12' 0"	" "	74	11' 0"
" "	73	14' 0"	" "	77	18' 0"	$17\frac{1}{3}$ "	75	16' 0"
$27\frac{1}{2}$ "	74	8' 0"	" "	70	9' 0"	" "	72	20' 0"
" "	71	15' 0"	" "	72	5' 0"	" "		

Table No. 10 (continued).

Date when measured.	Length.		Date when measured.	Length.		Date when measured.	Length.	
	Mother.	Foetus.		Mother.	Foetus.		Mother.	Foetus.
	Engl. feet.	Engl. feet.		Engl. feet.	Engl. feet.		Engl. feet.	Engl. feet.
17/3 33	77	15' 0"	29/3 33	71	16' 0"	2/4 33	68	7' 1"
" "	74	5' 0"	" "	71	14' 0"	3/4 "	74	19' 4"
18/3 "	72	18' 0"	" "	70	12' 0"	" "	70	9' 0"
" "	72	10' 0"	" "	70	8' 1"	5/4 "	73	13' 0"
19/3 "	73	6' 1"	30/3 "	69	5' 4"	6/4 "	74	14' 0"
" "	75	17' 0"	31/3 "	70	7' 0"	7/4 "	69	9' 0"
22/3 "	74	15' 0"	" "	77	18' 0"	8/4 "	73	17' 0"
24/3 "	63	14' 0"	" "	75	14' 1"	" "	76	13' 0"
26/3 "	72	17' 0"	" "	69	10' 4"	10/4 "	74	12' 0"
27/3 "	73	8' 0"	1/4 "	74	17' 9"	11/4 "	70	18' 0"

Total 537 fin-whale foetuses, of which 6 twin-foetuses.

Table No. 11.—Size of pregnant whale females caught in the Southern Seas, pelagic whaling, in the season 1932/33.

(Measurements from 13 floating factories.)

1. Blue-whale females.

Length of mothers.	Number of pregnant animals.	Length of mothers.	Number of pregnant animals.	
Engl. feet.		Engl. feet.		
65	2	84	164	
68	4	85	206	
69	2	86	192	
70	7	87	164	
71	9	88	149	Number of foetuses measured 1,877,
72	6	89	90	of which twin-pairs 13.
73	4	90	133	
74	1	91	47	
75	17	92	34	Total number of mature
76	21	93	27	blue-whale females killed 5,153,
77	14	94	17	of which pregnant animals
78	32	95	15	1,864 or 36.4 per cent.
79	38	96	9	
80	91	97	3	
81	103	98	5	
82	115			
83	143			
		Sum	1,864	

2. Fin-whale females.

54	1	72	69	
58	1	73	64	
60	1	74	57	Number of foetuses measured 537,
63	4	75	54	of which twin-pairs 6.
64	5	76	33	
65	5	77	25	
66	8	78	19	Total number of mature
67	10	79	4	fin-whale females killed 1,294,
68	19	80	7	of which pregnant animals
69	29	82	2	531 or 41.0 per cent.
70	70	85	1	
71	43			
		Sum	531	

Table No. 12.—Whale foetuses, by species and groups of size, in each month.

1. Blue-whale foetuses

measured in the Southern Seas in the season 1932/33.

Groups of size.	October.	November.	December.	January.	February.	March.	April.	Total.
Engl. feet.								
Less than 1'	3	8	—	—	—	—	—	11
1'—1' 11"	4	12	8	2	—	—	—	26
2'—2' 11"	17	32	21	9	3	—	—	82
3'—3' 11"	22	84	51	13	2	1	1	174
4'—4' 11"	17	85	93	29	2	1	—	227
5'—5' 11"	7	64	67	27	9	2	—	176
6'—6' 11"	10	54	85	41	9	1	1	201
7'—7' 11"	2	25	60	35	8	5	1	136
8'—8' 11"	1	24	49	41	21	7	—	143
9'—9' 11"	—	9	46	33	4	4	—	96
10'—10' 11"	—	4	35	59	17	5	—	120
11'—11' 11"	—	1	17	40	12	4	—	74
12'—12' 11"	—	—	17	46	26	5	2	96
13'—13' 11"	—	—	5	14	21	3	1	44
14'—14' 11"	—	1	7	29	22	8	3	70
15'—15' 11"	—	1	3	15	28	8	3	58
16'—16' 11"	—	—	1	9	19	10	1	40
17'—17' 11"	—	—	—	4	8	5	1	18
18'—18' 11"	—	—	—	5	6	15	5	31
19'—19' 11"	—	—	—	2	4	6	—	12
20'—20' 11"	—	—	—	4	6	10	—	20
21'—21' 11"	—	—	—	2	1	3	—	6
22'—22' 11"	—	—	—	—	2	3	1	6
23'—23' 11"	—	—	—	—	1	3	1	5
24'—24' 11"	—	—	—	—	—	1	2	3
25'—25' 11"	—	—	—	—	—	1	—	1
26'—26' 11"	—	—	—	—	—	1	—	1
Total blue-whale foetuses	83	404	565	459	231	112	23	1,877
Average size of foetuses	3' 8"	4' 8"	6' 5"	9' 5"	12' 3"	15' 1"	15' 7"	8' 0"

2. Fin-whale foetuses

measured in the Southern Seas in the season 1932/33.

Engl. feet.								
Less than 1'	—	1	—	2	—	—	—	3
1'—1' 11"	—	—	—	8	1	—	—	9
2'—2' 11"	1	—	—	7	7	1	—	16
3'—3' 11"	2	3	2	5	16	3	—	31
4'—4' 11"	2	3	—	11	10	7	—	33
5'—5' 11"	—	1	2	13	16	8	—	40
6'—6' 11"	—	2	—	14	25	8	—	49
7'—7' 11"	—	—	2	7	19	7	1	36
8'—8' 11"	—	—	—	13	39	15	—	67
9'—9' 11"	—	—	—	5	19	6	2	32
10'—10' 11"	—	—	1	9	20	7	—	37
11'—11' 11"	—	—	1	—	19	6	—	26

(cont.)

Table No. 12 (continued).

Groups of size.	October.	November.	December.	January.	February.	March.	April.	Total.
Engl. feet.								
12'—12' 11"	—	—	—	6	24	11	1	42
13'—13' 11"	—	—	—	3	12	2	2	19
14'—14' 11"	—	—	—	2	18	9	1	30
15'—15' 11"	—	—	—	3	13	7	—	23
16'—16' 11"	—	—	—	2	8	3	—	13
17'—17' 11"	—	—	—	—	2	5	2	9
18'—18' 11"	—	—	—	1	6	7	1	15
19'—19' 11"	—	1	—	—	2	1	1	5
20'—20' 11"	—	—	—	—	—	1	—	1
21'—21' 11"	—	—	—	—	—	—	—	—
22'—22' 11"	—	—	—	—	—	—	—	—
23'—23' 11"	—	—	—	—	—	1	—	1
Total fin-whale foetuses	5	11	8	111	276	115	11	537
Average size of foetuses	3' 4"	5' 3"	6' 6"	6' 10"	9' 4"	10' 5"	13' 7"	9' 0"

Firm: _____

Manager: _____

Catching fields: _____

Season commenced _____ closed _____

Report on number of whales, oil production, etc. Season 19_____

Month	Catcher: _____ Gunner: _____								Catcher: _____ Gunner: _____								Catcher: _____ Gunner: _____								Total production of oil of the whaling firm						Production of guano and bonemeal	
	Blue-whale	Fin-whale	Hump-back	Sei-whale	Sperm-whale	Right-whale	Total	Blue-whale	Fin-whale	Hump-back	Sei-whale	Sperm-whale	Right-whale	Total	Blue-whale	Fin-whale	Hump-back	Sei-whale	Sperm-whale	Right-whale	Total	No. 0 & 1	No. 2	No. 3	No. 4	Sperm	Total					
January .																																
February																																
March ...																																
April, etc.																																

Report on whales caught from _____

by _____ whaling firm in the season 19 —19

Date	Species of whales	Length ¹⁾ (Ft.)	Contents of stomach	Sex	Females ²⁾			Remarks
					Pregnant	Accompanied by calf	Length of the calf or foetus	

1) The length shall be the length of a straight line taken from the tip of the snout to the notch between the flukes of the tail.
 2) These rubrics must be filled in as exactly as possible.

