

DET NORSKE HVALRÅDS STATISTISKE PUBLIKASJONER

INTERNATIONAL
WHALING STATISTICS
LXII

EDITED BY
THE COMMITTEE FOR WHALING STATISTICS

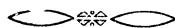


OSLO 1969

DET NORSKE HVALRÅDS STATISTISKE PUBLIKASJONER

INTERNATIONAL
WHALING STATISTICS
LXII

EDITED BY
THE COMMITTEE FOR WHALING STATISTICS



OSLO 1969

PRINTED BY
GRØNDAL & SØN OSLO

C O N T E N T S

	Page
Preface	5
Introduction	7
Table No. 1.—Whaling results for the various countries in the Antarctic in the season 1967/68.....	29
Table No. 2.—Average size of whales caught in the Antarctic in the season 1967/68.....	29
Table No. 3.—Whales caught in the Antarctic in the season 1967/68, by species, sex and size.....	30
Table No. 4.—Whales caught in the Antarctic in the season 1967/68, by species, sex and groups of size	32
Table No. 5.—Average production of whale oil per blue-whale unit in the Antarctic in the season 1967/68	32
Table No. 6.—Size of pregnant whale females caught in the Antarctic in the season 1967/68.....	33
Table No. 7.—Whale foetuses measured in the Antarctic in the season 1967/68, by species and groups of size, in each month	34
Table No. 8.—Whale foetuses measured in the Antarctic in the season 1967/68, by species and sex, in each month	35

P R E F A C E

The present publication, International Whaling Statistics No. LXII, embraces the results of the Antarctic whaling during the season 1967–68.

The statistical data in this publication are based on the reports sent in to the Bureau of International Whaling Statistics, Sandefjord.

Oslo, December 1968.

Gunnar Jahn.

Birger Bergersen.

Einar Vangstein.

INTRODUCTION

Regulative provisions.

At its eighteenth meeting the International Whaling Commission agreed that the Antarctic pelagic catch in the 1966-67 season should not exceed 3,500 blue-whale units, and that the total catch for 1967-68 should be less than the combined sustainable yields of the fin- and sei-whale stocks as determined on the basis of more precise scientific evidence. The Commission's Scientific Committee advised that their best estimate of the present sustainable yields of fin- and sei-whale for the whole Antarctic was 3,100 to 3,600 blue-whale units. The Commission decided at its last meeting that the pelagic catch limit for the 1967-68 Antarctic season should be reduced from 3,500 to 3,200 blue-whale units.

The national quota allocation for the season 1967-68 was as follows:

Japan	1,493	blue-whale units
U.S.S.R.	976	—»—
Norway	731	—»—
<hr/>		
Total	3,200	blue-whale units

The most important regulations governing the pelagic whaling in the Antarctic season 1967-68 were as follows:

1. The open season for the taking of fin- and sei-whales was from December 12th to April 7th, both days inclusive.
2. The open season for taking of sperm-whales was 8 months.
3. It was forbidden to take fin-whales under 57 feet, sei-whales under 40 feet and sperm-whales under 38 feet. Further it was forbidden to kill blue-whales, humpback whales, right-whales, grey-whales and female whales accompanied by a calf.
4. The number of baleen whales taken during the open season in waters south of 40° South Latitude by whale catchers attached to factory ships under jurisdiction of the Contracting Governments should not exceed 3,200 blue-whale units in 1967-68. (As one blue-whale unit is reckoned 2 fin-whales or 6 sei-whales.)

Whaling period.

The survey below shows the whaling period for baleen whales in the season 1967-68, specified for each expedition:

Expeditions	Whaling period	Catching days
Japanese:		
Kyokuyo Maru No. 3	December 12th-March 20th	99
Nisshin Maru.....	December 12th-March 14th	94
Nisshin Maru No. 3.....	December 25th-March 16th	83
Tonan Maru No. 2	December 12th-March 12th	92
U.S.S.R.:		
Juri Dolgorukij	December 16th-March 30th	106
Sovietskaya Rossia	December 14th-March 27th	105
Sovietskaya Ukraina	December 12th-March 29th	109
Norwegian:		
Kosmos IV.....	December 12th-April 7th	<u>118</u>
		Average <u>101</u>

The whaling period and number of catching days for the pelagic baleen whaling operations in the seasons 1960/61-1967/68 will be seen from the following survey:

Seasons	Whaling period	Catching days
1960-61.....	December 28th-April 7th	101
1961-62.....	December 12th-April 7th	117
1962-63.....	December 12th-April 7th	117
1963-64.....	December 12th-April 7th	118
1964-65.....	December 12th-April 7th	117
1965-66.....	December 12th-April 7th	117
1966-67.....	December 12th-April 7th	117
1967-68.....	December 12th-April 7th	118

In these eight seasons some of the the expeditions closed their baleen whaling operations at an earlier date. The average catching periods were therefore as follows:

Seasons	Average catching period
1960-61	95 days
1961-62	115 »
1962-63	110 »
1963-64	111 »
1964-65	104 »
1965-66	103 »
1966-67	97 »
1967-68	101 »

Whaling matériel.

In the pelagic whaling during the Antarctic season 1967–68 8 floating factories with a total of 97 catching boats were in operation. This was one floating factory less than in the previous season, as the Norwegian factory ship «Thorshavet» was not taking part this season.

The number of floating factories and catchers operated by the respective countries during the last 3 seasons was as follows:

Countries	Season 1965–66		Season 1966–67		Season 1967–68	
	Floating factories	Catchers	Floating factories	Catchers	Floating factories	Catchers
Japan	5	52	4	44	4	43
U. S. S. R.	3	55	3	55	3	49
Norway	2	21	2	21	1	5
Total	10	128	9	120	8	97

Table a.—Number and gross tonnage of floating factories and catchers engaged in pelagic whaling in the Antarctic 1949/50—1967/68.

Seasons	Floating factories			Catchers			
	Number	Gross tonnage	Average gross tonnage per fl. factory	Number	Gross tonnage	Average per catcher of:	
						Gross tonnage	I.H.P.
1949–50....	18	257,112	14,284	216	91,499	424	1,582
1950–51....	19	271,646	14,297	239	108,493	454	1,705
1951–52 ¹⁾ ..	19	289,120	15,217	263	124,374	473	1,774
1952–53....	16	238,448	14,903	230	113,608	494	1,862
1953–54....	17	261,898	15,406	206	102,525	498	1,874
1954–55....	19	286,205	15,063	233	119,011	511	1,933
1955–56....	19	305,765	16,093	257	131,881	513	1,945
1956–57....	20	320,268	16,013	225	122,569	545	2,073
1957–58....	20	321,656	16,083	237	135,024	570	2,190
1958–59....	20	329,136	16,457	235	140,755	599	2,390
1959–60....	20	357,574	17,879	220	139,266	633	2,557
1960–61....	21	378,835	18,040	252	161,808	642	2,614
1961–62....	21	406,402	19,352	261	170,870	657	2,723
1962–63....	17	354,581	20,858	201	141,327	703	2,957
1963–64....	16	339,132	21,196	190	134,751	709	3,011
1964–65....	15	312,302	20,820	172	123,005	715	3,041
1965–66....	10	217,112	21,711	128	95,122	743	3,226
1966–67....	9	197,793	21,977	120	90,788	757	3,270
1967–68....	8	178,625	22,328	97	74,630	769	3,377

¹⁾ Excl. fl.f. "Baikal Maru" with 5 catchers. Catch of sperm-whales only.

Table a, above, gives the number of floating factories and catchers engaged in pelagic whaling since the season 1949–50. The table also shows the average gross tonnage of the floating factories and the average tonnage and engine power of the catchers.

From the following survey will be seen the number of floating factories, the number of catchers and the average number of catchers engaged per floating factory from and including the season 1950-51.

Seasons	Number of floating factories	Number of catchers	Average number of catchers per floating factory	Seasons	Number of floating factories	Number of catchers	Average number of catchers per floating factory
1950-51	19	239	12.6	1959-60	20	220	11.0
1951-52	19	263	13.8	1960-61	21	252	12.0
1952-53	16	230	14.4	1961-62	21	261	12.4
1953-54	17	206	12.1	1962-63	17	201	11.8
1954-55	19	233	12.3	1963-64	16	190	11.9
1955-56	19	257	13.5	1964-65	15	172	11.5
1956-57	20	225	11.3	1965-66	10	128	12.8
1957-58	20	237	11.9	1966-67	9	120	13.3
1958-59	20	235	11.8	1967-68	8	97	12.1

The following survey shows the average number of catchers per floating factory specified for each country during the last three seasons:

Countries	Average number of catchers per floating factory		
	Season 1965-66	Season 1966-67	Season 1967-68
Japan	10.4	11.0	10.8
U.S.S.R.	18.3	18.3	16.3
Norway	10.5	10.5	5.0
Average	12.8	13.3	12.1

Catch results.

During the Antarctic season 1967-68 the pelagic expeditions caught in all 15,080 whales, of which 10 were lost. Thus the number of whales actually processed was 15,070, as will be seen from the following survey:

Species of whales	Whales captured	Lost whales	Processed whales	Captured whales in blue-whale units
Fin-whales	2,155	3	2,152	1,077.5
Sei-whales	10,357	7	10,350	1,726.2
Total baleen whales	12,512	10	12,502	2,803.7
Sperm-whales	2,568	-	2,568	-
Total of whales	1) 15,080	10	15,070	2,803.7

¹⁾ In addition a total of 605 minke-whales, 1 bottlenose and 2 killer-whales were caught.

The pelagically caught baleen whales (excl. small whales) converted into blue-whale units amounted to 2,803.7 units in the season 1967-68. The survey on next page shows the total catch in blue-whale units and the agreed global quota from and including the season 1960-61:

Seasons	Catch in blue-whale units	Agreed global quota Blue-whale units
1960-61	16,433.5	1)
1961-62	15,252.6	1)
1962-63	11,306.1	15,000
1963-64	8,429.0	10,000
1964-65	6,986.1	8,000
1965-66	4,090.9	4,500
1966-67	3,511.8	3,500
1967-68	2,803.7	3,200

¹⁾ No global quota.

In the season 1967-68 the pelagic expeditions in the Antarctic processed 2,801.0 blue-whale units yielding 321,953 barrels of whale-oil, and 2,568 sperm-whales yielding 104,544 barrels of sperm-oil.

The pelagic catch in blue-whale units in the last three seasons apportioned between the individual countries was as follows:

Countries	Catch in blue-whale units		
	Season 1965-66	Season 1966-67	Season 1967-68
Japan	2,340.1	1,639.2	1,493.0
U.S.S.R.	921.6	1,071.1	1,018.7
Norway	829.2	801.5	292.0
Total	4,090.9	3,511.8	2,803.7

The total whaling results in the Antarctic from 1949-50 up to and including 1967-68 are given in table b, below. In table c, page 12, the pelagic results during the same period have been recorded separately.

Table b.—Total whaling in the Antarctic.

Years.	Species of whales caught.						Total of whales.	Oil production.	Expeditions.			Number of whales per boat.
	Blue.	Fin.	Hump-back.	Sel.	Sperm.	Others.			Shore stations.	Floating factories.	Catchers.	
1949-50	6,182	20,060	2,143	1,284	2,727	-	32,396	Barrels. 2,166,489	3	18	237	137
1950-51	7,048	19,456	1,638	886	4,968	-	33,996	2,303,690	3	19	260	131
1951-52	5,130	22,527	1,556	530	5,485	-	35,228	2,479,180	3	20	289	122
1952-53	3,870	22,867	963	621	2,332	-	30,653	2,118,097	3	16	251	122
1953-54	2,697	27,659	605	1,029	2,879	-	34,869	2,285,720	3	17	227	154
1954-55	2,176	28,624	495	569	5,790	-	37,654	2,242,555	3	19	254	148
1955-56	1,614	27,958	1,432	560	6,974	-	38,538	2,307,171	3	19	278	139
1956-57	1,512	27,757	679	1,692	4,429	-	36,069	2,246,922	3	20	246	147
1957-58	1,690	27,473	396	3,309	6,535	-	39,403	2,317,638	2	20	257	153
1958-59	1,192	27,128	2,394	2,421	5,652	-	38,787	2,152,659	3	20	256	152
1959-60	1,239	27,575	1,338	4,309	4,227	-	38,688	2,148,438	3	20	241	161
1960-61	1,744	28,761	718	5,102	4,800	¹⁾ 2	41,127	2,232,884	3	21	268	153
1961-62	1,118	27,099	309	5,196	4,829	¹⁾ 1	38,552	2,051,776	1	21	269	143
1962-63	947	18,668	270	5,503	4,771	-	30,159	1,495,779	-	17	201	150
1963-64	112	14,422	2	8,695	6,711	-	29,942	1,340,758	2	16	194	154
1964-65	20	7,811	-	20,380	4,352	-	32,563	1,063,416	2	15	177	184
1965-66	1	2,536	1	17,587	4,555	-	24,680	644,263	1	10	128	193
1966-67	4	2,893	-	12,368	4,960	-	20,225	600,666	-	9	120	169
1967-68	-	2,155	-	10,357	2,568	-	15,080	426,497	-	8	97	155

¹⁾ Right-whales.

Table c.—Pelagic whaling in the Antarctic.

Years.	Species of whales caught.						Total of whales.	Oil production.	Expeditions.			Number of whales per boat.
	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Others.			Shore stations.	Floating factories.	Catchers.	
1949-50	6,168	18,061	2,117	101	2,570	-	29,017	Barrels. 2,019,368	-	18	216	134
1950-51	6,966	17,474	1,630	367	4,742	-	31,179	2,152,498	-	19	239	130
1951-52	5,124	20,520	1,546	32	5,344	-	32,566	2,334,805	-	20	268	122
1952-53	3,866	21,197	954	123	2,185	-	28,325	1,998,094	-	16	230	123
1953-54	2,684	24,986	594	251	2,700	-	31,215	2,100,884	-	17	206	152
1954-55	2,163	25,878	493	146	5,708	-	34,388	2,061,789	-	19	233	148
1955-56	1,611	25,289	1,432	276	6,881	-	35,489	2,134,808	-	19	257	138
1956-57	1,505	25,700	679	712	4,345	-	32,941	2,098,854	-	20	225	146
1957-58	1,684	25,222	396	2,385	6,310	-	35,997	2,146,206	-	20	237	152
1958-59	1,191	25,837	2,394	1,402	5,437	-	36,261	2,050,241	-	20	235	154
1959-60	1,230	26,415	1,338	3,234	4,138	-	36,355	2,050,892	-	20	220	165
1960-61	1,740	27,374	718	4,310	4,666	¹⁾ 2	38,810	2,123,157	-	21	252	154
1961-62	1,118	26,438	309	4,749	4,743	¹⁾ 1	37,358	2,001,961	-	21	261	143
1962-63	947	18,668	270	5,503	4,771	-	30,159	1,495,779	-	17	201	150
1963-64	112	13,870	2	8,286	6,651	-	28,921	1,299,476	-	16	190	152
1964-65	20	7,308	-	19,874	4,211	-	31,413	1,017,611	-	15	172	183
1965-66	1	2,318	1	17,583	4,538	-	24,441	634,299	-	10	128	191
1966-67	4	2,893	-	12,368	4,960	-	20,225	600,666	-	9	120	169
1967-68	-	2,155	-	10,357	2,568	-	15,080	426,497	-	8	97	155

¹⁾ Right-whales.

Of sperm-whales a total of 2,568 animals was in 1967-68 caught in the Antarctic (South of 40° S.). In addition the pelagic expeditions captured 1,288 sperm-whales in waters north of 40° South Latitude. The survey below shows the total catch of sperm-whales on voyage to the Antarctic, in the Antarctic (i.e. south of 40° South Lat.) and on voyage from the Antarctic, specified for each country during each of the last 3 seasons:

Seasons Countries	Number of sperm-whales caught in the pelagic whaling				
	On voyage to the Antarctic N. of 40° S.	In the Antarctic S. of 40° S.	On voyage from the Antarctic N. of 40° S.	Total	
1967-68					
Japan	10	104	—	114	
U.S.S.R.	1,256	2,390	22	3,668	
Norway	—	74	—	74	
Total	1,266	2,568	22	3,856	
1966-67					
Japan	85	357	5	447	
U.S.S.R.	1,108	4,008	81	5,197	
Norway	55	595	—	650	
Total	1,248	4,960	86	6,294	
1965-66					
Japan	160	264	58	482	
U.S.S.R.	704	3,622	628	4,954	
Norway	16	652	—	668	
Total	880	4,538	686	6,104	

Table d, page 14, illustrates the relation between the various species of whales killed in pelagic whaling in the Antarctic from 1949–50. During the three last seasons 1967–68, 1966–67 and 1965–66 the fin-whale catch represented 14, 14 and 10 per cent of the total catch compared with 23, 48 and 62 per cent during the three preceding seasons. On the other hand the sei-whale catch increased from about 29 per cent in 1963–64 to 72 per cent in 1965–66. In 1967–68 the sei-whale catch amounted to 69 per cent of the total catch. The catch of sperm-whales in the Antarctic (i.e. south of 40° South Latitude) amounted to about 17 per cent last season as against 24 and 19 per cent in the two preceding seasons.

Table e, page 14, gives i.a. the average daily production of whale oil per floating factory as well as per catcher. The average daily production of whale-oil per floating factory in 1967–68 amounted to 399 barrels as against 439 and 433 barrels in the two preceding seasons. During the ten seasons 1949/50–1958/59 the corresponding figures varied between 1,266 and 1,690 barrels of whale-oil.

The average daily production of whale-oil per catcher in 1966–67 and 1967–68 was 33 barrels, which is the lowest result ever recorded in pelagic whaling. During the seasons 1949/50–1958/59 the average daily production per catcher varied between 103 and 126 barrels.

In tables f and g, pages 15 and 16, the monthly catch of the various species of whales is recorded in absolute and percentage figures for a series of years.

The survey below shows the catch between each 10 degrees latitude in the Antarctic for the seasons 1958–59 and 1964/65–1967/68. Between 40°–50° South Lat. the catch in 1967/68 resulted in 1,115 blue-whale units, and this represents about 40 per cent of the total catch, as compared with about 58 per cent in the season 1966–67 and about 70 per cent in 1965–66.

	Catch in blue-whale units											
	Season 1958/59		Season 1964/65		Season 1965/66		Season 1966/67		Season 1967/68		Per cent	
	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent		
40°–50° S. Lat...	—	—	2,695	38	2,868	70	2,029	58	1,115	40		
50°–60° » ..	5,299	35	4,006	57	639	16	543	15	1,065	38		
60°–70° » ..	9,194	60	351	5	578	14	894	26	621	22		
70°–80° » ..	741	5	—	—	—	—	41	1	—	—		
Total	15,234	100	7,052	100	4,085	100	3,507	100	2,801	100		

(To be continued on page 17.)

Table d.—Whales caught in the pelagic whaling. Percentage figures.

Years.	Species of whales caught.					
	Blue.	Fln.	Hump-back.	Sei.	Sperm.	Total.
	Per cent.	Per cent.	Per cent.	Per cent.	Per cent.	Per cent.
1949-50.....	21.3	62.2	7.3	0.3	8.9	100
1950-51.....	22.3	56.1	5.2	1.2	15.2	100
1951-52.....	15.7	63.0	4.8	0.1	16.4	100
1952-53.....	13.7	74.8	3.4	0.4	7.7	100
1953-54.....	8.6	80.0	1.9	0.8	8.7	100
1954-55.....	6.3	75.3	1.4	0.4	16.6	100
1955-56.....	4.5	71.3	4.0	0.8	19.4	100
1956-57.....	4.6	78.0	2.0	2.2	13.2	100
1957-58.....	4.7	70.1	1.1	6.6	17.5	100
1958-59.....	3.3	71.2	6.6	3.9	15.0	100
1959-60.....	3.4	72.6	3.7	8.9	11.4	100
1960-61.....	4.5	70.5	1.9	11.1	12.0	100
1961-62.....	3.0	70.8	0.8	12.7	12.7	100
1962-63.....	3.1	61.9	0.9	18.3	15.8	100
1963-64.....	0.4	48.0	—	28.6	23.0	100
1964-65.....	—	23.3	—	63.3	13.4	100
1965-66.....	—	9.5	—	71.9	18.6	100
1966-67.....	—	14.3	—	61.2	24.5	100
1967-68.....	—	14.3	—	68.7	17.0	100

Table e.—Average production per floating factory and catcher in the pelagic whaling in Antarctic 1958/59—1967/68.**I. Floating factories:**

Seasons.	Total production of whale oil.	Total number of fl. fact.	Average production per fl. fact.	Catching days.		Total production per day for the whole fleet.	Average production per floating factory's day-work.
				Total.	Aver-		
	Barrels.		Barrels.			Barrels.	Barrels.
1958-59.....	1,798,447	20	89,922	1,385	69	26,064	1.299
1959-60.....	1,859,375	20	92,969	1,973	99	18,782	942
1960-61.....	1,915,118	21	91,196	2,004	95	20,159	956
1961-62.....	1,797,178	21	85,580	2,415	115	15,628	744
1962-63.....	1,293,491	17	76,088	1,878	110	11,759	689
1963-64 ¹⁾	1,016,670	15	67,778	1,663	111	9,159	611
1964-65.....	844,457	15	56,297	1,554	104	8,120	543
1965-66.....	448,020	10	44,802	1,034	103	4,350	433
1966-67.....	383,888	9	42,654	874	97	3,958	439
1967-68.....	321,953	8	40,244	806	101	3,188	399

II. Catchers:

Seasons.	Total production of whale oil.	Total number of catchers.	Average production per catcher.	Catching days.		Average oil production per catcher's day-work.	Average number of whales caught ²⁾ per catcher's day-work
				Total.	Average per catcher.		
	Barrels.		Barrels.			Barrels.	
1958-59....	1,798,447	235	7,653	16,275	69	111	1.89
1959-60....	1,859,375	220	8,452	21,356	97	87	1.51
1960-61....	1,915,118	252	7,600	23,998	95	80	1.42
1961-62....	1,797,178	261	6,886	29,952	115	60	1.09
1962-63....	1,293,491	201	6,435	22,504	112	57	1.13
1963-64 ¹⁾ ...	1,016,670	180	5,646	19,876	110	51	1.10
1964-65....	844,457	172	4,910	17,475	102	48	1.56
1965-66....	448,020	128	3,500	13,122	103	34	1.52
1966-67....	383,888	120	3,199	11,760	98	33	1.30
1967-68....	321,953	97	3,319	9,785	101	33	1.28

¹⁾ Excl. one expedition, which mostly caught sperm-whales. ²⁾ Not including sperm-whales.

Table f.—Antarctic, pelagic whaling. Catch by months in absolute figures.

Species of whales, and seasons.	Nov.	Dec.	Jan.	Feb.	March.	April.	Total.	The Whaling Statistics' total figures.	
Total animals.	1958-59..	731	3,477	12,628	12,800	6,453	-	36,089	36,261
	1959-60..	359	4,464	12,917	10,710	6,584	1,144	36,178	36,355
	1960-61..	1,086	4,104	12,445	11,491	8,559	996	38,681	38,808
	1961-62..	1,356	5,431	10,135	9,458	9,857	985	37,222	37,357
	1962-63..	1,307	4,988	7,805	8,499	6,223	1,267	30,089	30,159
	1963-64..	1,158	4,534	8,874	7,840	5,331	1,125	28,862	28,921
	1964-65..	365	4,192	10,035	10,096	5,856	822	31,366	31,413
	1965-66..	178	4,328	7,443	6,513	4,711	1,231	24,404	24,441
	1966-67..	368	4,207	5,462	5,795	3,225	1,142	20,199	20,225
	1967-68..	10	2,326	4,641	4,189	2,892	1,012	15,070	15,080
Blue- whales.	1958-59..	-	-	-	780	407	-	1,187	1,191
	1959-60..	-	2	-	485	716	25	1,228	1,230
	1960-61..	-	1	-	1,267	457	14	1,739	1,740
	1961-62..	-	-	1	690	319	106	1,116	1,118
	1962-63..	-	-	-	227	490	227	944	947
	1963-64..	-	-	-	29	49	34	112	112
	1964-65..	-	-	-	11	8	1	20	20
	1965-66..	-	-	-	-	1	-	1	1
	1966-67..	-	1	2	1	-	-	4	4
	1967-68..	-	-	-	-	-	-	-	-
Fin- whales.	1958-59..	-	7	11,818	8,615	5,247	-	25,687	25,837
	1959-60..	2	1,892	10,721	8,153	4,579	924	26,271	26,415
	1960-61..	73	2,074	10,714	7,871	5,983	584	27,299	27,374
	1961-62..	-	4,100	8,408	7,002	6,647	207	26,364	26,438
	1962-63..	-	3,477	6,099	5,639	3,228	193	18,636	18,668
	1963-64..	-	2,732	4,338	4,164	2,482	137	13,853	13,870
	1964-65..	-	2,452	2,353	1,328	1,083	90	7,306	7,308
	1965-66..	-	327	624	403	878	82	2,314	2,318
	1966-67..	-	380	690	1,329	484	2	2,885	2,893
	1967-68..	-	260	676	648	567	1	2,152	2,155
Hump- backs.	1958-59..	-	-	-	2,393	-	-	2,393	2,394
	1959-60..	-	-	1,257	74	1	-	1,332	1,338
	1960-61..	-	7	698	4	-	-	709	718
	1961-62..	-	1	306	-	-	2	309	309
	1962-63..	-	1	269	-	-	-	270	270
	1963-64..	-	-	-	-	-	2	2	2
	1964-65-66	-	-	-	-	-	-	-	-
	1966-67..	-	-	-	-	1	-	1	1
	1967-68..	-	-	-	-	-	-	-	-
	1958-59..	-	-	205	586	603	-	1,394	1,402
Sei- whales.	1959-60..	-	22	556	1,532	1,010	99	3,219	3,234
	1960-61..	-	4	602	1,901	1,583	190	4,280	4,310
	1961-62..	-	198	598	1,336	2,242	342	4,716	4,749
	1962-63..	-	392	659	1,954	2,112	365	5,482	5,503
	1963-64..	-	552	3,204	2,451	1,867	182	8,256	8,286
	1964-65..	-	1,001	7,116	7,690	3,870	161	19,838	19,874
	1965-66..	-	3,202	5,701	5,579	2,923	153	17,558	17,583
	1966-67..	-	3,168	3,615	3,673	1,880	24	12,360	12,368
	1967-68..	-	1,812	3,351	3,055	2,113	19	10,350	10,357
	1958-59..	731	3,470	605	426	196	-	5,428	5,437
Sperm- whales.	1959-60..	357	2,548	383	466	278	96	4,128	4,138
	1960-61..	1,013	2,018	431	448	536	208	4,654	4,666
	1961-62..	1,356	1,132	822	430	649	328	4,717	4,743
	1962-63..	1)1,307	1,118	778	679	393	482	4,757	4,771
	1963-64..	1,158	1,250	1,332	1,196	933	770	6,639	6,651
	1964-65..	365	739	566	1,067	895	2)570	4,202	4,211
	1965-66..	178	799	1,120	531	908	996	4,532	4,538
	1966-67..	368	658	1,155	792	861	3)1,116	4,950	4,960
	1967-68..	10	254	614	486	212	992	2,568	2,568

¹⁾ Of which 101 caught in October. ²⁾ Of which 190 caught in May. ³⁾ Of which 288 caught in May.

⁴⁾ Of which 140 caught in May.

Table g.—Antarctic, pelagic whaling. Catch by months in percentage figures.

Species of whales. Seasons.	Nov.	Dec.	Jan.	Feb.	March.	April.	Total.	The Whal- ing Statistics' total figures.	
<i>Total animals</i>	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
1958-59	.	.	.	6.1	6.3	-	3.3	3.3	
1959-60	.	.	.	4.5	10.9	2.2	3.4	3.4	
1960-61	.	.	.	11.0	5.3	1.4	4.5	4.5	
<i>Blue-whales</i>	1961-62	-	-	7.3	3.2	10.8	3.0	3.0	
1962-63	-	-	-	2.7	7.9	17.9	3.1	3.1	
1963-64	-	-	-	0.3	0.9	3.0	0.4	0.4	
1964-65	-	-	-	-	0.1	0.1	-	-	
1965-66	-	-	-	-	0.1	-	-	-	
1966-67-68	-	-	-	-	-	-	-	-	
<i>Fin-whales</i>	1958-59	-	0.2	93.6	67.3	81.3	-	71.2	71.2
1959-60	0.6	42.4	83.0	76.1	69.5	80.8	72.6	72.6	
1960-61	6.7	50.5	86.1	68.5	69.9	58.6	70.6	70.5	
1961-62	-	75.5	83.0	74.0	67.4	21.0	70.8	70.8	
1962-63	-	69.7	78.1	66.3	51.9	15.2	62.0	61.9	
1963-64	-	60.3	48.9	53.1	46.6	12.2	48.0	48.0	
1964-65	-	58.5	23.5	13.2	18.5	10.9	23.3	23.3	
1965-66	-	7.5	8.4	6.2	18.6	6.7	9.5	9.5	
1966-67	-	9.0	12.6	22.9	15.0	0.2	14.3	14.3	
1967-68	-	11.2	14.6	15.5	19.6	0.1	14.3	14.3	
<i>Hump-backs</i>	1958-59	-	-	18.7	-	-	6.6	6.6	
1959-60	-	-	9.7	0.7	0.1	-	3.7	3.7	
1960-61	-	0.2	5.6	0.1	-	-	1.8	1.9	
1961-62	-	-	3.0	-	-	0.2	0.8	0.8	
1962-63	-	-	3.5	-	-	-	0.9	0.9	
1963-64	-	-	-	-	-	0.2	-	-	
1964-65	-	-	-	-	-	-	-	-	
1967-68	-	-	-	-	-	-	-	-	
<i>Sei-whales</i>	1958-59	-	-	1.6	4.6	9.4	-	3.9	3.9
1959-60	-	0.5	4.3	14.3	15.3	8.6	8.9	8.9	
1960-61	-	0.1	4.8	16.5	18.5	19.1	11.1	11.1	
1961-62	-	3.6	5.9	14.1	22.8	34.7	12.7	12.7	
1962-63	-	7.9	8.4	23.0	33.9	28.8	18.2	18.3	
1963-64	-	12.2	36.1	31.3	35.0	16.2	28.6	28.6	
1964-65	-	23.9	70.9	76.2	66.1	19.6	63.3	63.3	
1965-66	-	74.0	76.6	85.7	62.0	12.4	71.9	71.9	
1966-67	-	75.3	66.2	63.4	58.3	2.1	61.2	61.2	
1967-68	-	77.9	72.2	72.9	73.1	1.9	68.7	68.7	
<i>Sperm-whales</i>	1958-59	100.0	99.8	4.8	3.3	3.0	-	15.0	15.0
1959-60	99.4	57.1	3.0	4.4	4.2	8.4	11.4	11.4	
1960-61	93.3	49.2	3.5	3.9	6.3	20.9	12.0	12.0	
1961-62	100.0	20.9	8.1	4.6	6.6	33.3	12.7	12.7	
1962-63	100.0	22.4	10.0	8.0	6.3	38.1	15.8	15.8	
1963-64	100.0	27.5	15.0	15.3	17.5	68.4	23.0	23.0	
1964-65	100.0	17.6	5.6	10.6	15.3	69.4	13.4	13.4	
1965-66	100.0	18.5	15.0	8.1	19.3	80.9	18.6	18.6	
1966-67	100.0	15.7	21.2	13.7	26.7	97.7	24.5	24.5	
1967-68	100.0	10.9	13.2	11.6	7.3	98.0	17.0	17.0	

The distribution of the various species of whales caught in the season 1967-68 was as follows:

Catch between each 10 degrees latitude in the Antarctic.

	Fin-whales		Sei-whales		Sperm-whales		Total of whales	
	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent
40°-50° S. Lat.	525	24	5,114	49	1,203	47	6,842	46
50°-60° » »	1,006	47	3,373	33	340	13	4,719	31
60°-70° » »	621	29	1,863	18	1,025	40	3,509	23
70°-80° » »	—	—	—	—	—	—	—	—
Total	2,152	100	10,350	100	2,568	100	15,070	100

Catch in the different areas.

For the purpose of obtaining more detailed information on the pelagic activities in the Antarctic the area round the South Pole Cap has been divided into the following 6 areas:-

Area I	I	between	120° West	and	60° West	
" II	"	60° "	"	"	0°	
" III	"	0°	"	"	70° East	
" IV	"	70° East	"	"	130° "	
" V	"	130° "	"	"	170° West	
" VI	"	170° West	"	"	120° "	

From the following survey will be seen the whaling results in blue-whale units in the individual areas during the last 8 seasons:

Seasons	Area I Blue-whale units	Area II Blue-whale units	Area III Blue-whale units	Area IV Blue-whale units	Area V Blue-whale units	Area VI Blue-whale units	Total blue-whale units						
	Per cent	Per cent	Per cent	Per cent	Per cent	Per cent							
1960-61..	241	1.5	2,929	17.9	7,885	48.1	1,211	7.4	1,887	11.5	2,222	13.6	16,375
1961-62..	1,809	11.9	3,729	24.5	6,488	42.6	1,792	11.8	693	4.5	718	4.7	15,229
1962-63..	853	7.5	3,109	27.5	5,491	48.6	1,010	8.9	586	5.2	257	2.3	11,306
1963-64..	22	0.3	4,368	51.7	2,808	33.2	367	4.4	882	10.4	—	—	8,447
1964-65..	40	0.6	4,918	69.8	687	9.7	658	9.3	749	10.6	—	—	7,052
1965-66..	14	0.4	2,439	59.7	963	23.6	106	2.6	361	8.8	202	4.9	4,085
1966-67..	23	0.6	299	8.5	1,922	54.8	659	18.8	272	7.8	332	9.5	3,507
1967-68..	—	—	119	4.2	782	27.9	753	26.9	554	19.8	593	21.2	2,801

From this survey it will be seen that the catch was carried on more eastwards in the last season. Thus, the catch in Areas II and III (between 60° West-70° East) amounted to 32 per cent of the total catch in 1967-68 as compared with 63 and 83 per cent in the two previous seasons. On the other hand the catch in Areas IV and V (between 70° East-170° West) was 47 per cent as against 27 and 11 per cent in 1966-67 and 1965-66, respectively.

Table h, page 18, records the number and average size of blue-whales, fin-whales and humpbacks killed in the different areas for a series of years.

Table h.—Number and average size of whales caught

No.	Species of whales. Seasons.	Area II (60° W.-0°)			Area III (0°-70° E.)			Area IV (70° E.-130° E.)		
		Number of whales caught.	Per cent.	Average size of the whales.	Number of whales caught.	Per cent.	Average size of the whales.	Number of whales caught.	Per cent.	Average size of the whales
Blue-whales.										
1	1931/32-1939/40	¹⁾ 24,101	19.7	78.9	53,314	43.6	78.3	43,511	35.6	79.9
2	1940/41-1944/45	2,106	90.8	77.9	214	9.2	78.5	—	—	—
3	1945/46-1950/51	8,592	21.7	78.0	13,695	34.5	78.6	8,624	21.8	78.6
4	1951-52	447	8.8	78.2	1,836	36.0	79.2	1,199	23.5	77.7
5	1952-53	727	18.9	78.9	1,454	37.8	77.7	837	21.8	77.0
6	1953-54	542	20.3	78.1	1,569	58.8	78.2	356	13.4	77.2
7	1954-55	470	21.8	79.0	685	31.8	78.1	310	14.4	77.6
8	1955-56	439	27.3	77.1	300	18.6	78.8	322	20.0	77.7
9	1956-57	330	21.9	76.9	275	18.3	78.4	80	5.3	78.5
10	1957-58	236	14.0	77.8	620	36.9	77.4	186	11.1	76.7
11	1958-59	57	4.8	80.5	373	31.4	79.0	335	28.2	78.0
12	1959-60	58	4.7	79.2	231	18.8	77.4	403	32.8	73.3
13	1960-61	128	7.4	79.7	1,152	66.2	72.6	151	8.7	71.8
14	1961-62	189	16.9	77.6	477	42.8	72.9	97	8.7	74.0
15	1962-63	14	1.5	83.8	741	78.5	71.2	40	4.2	74.7
16	1963-64	—	—	—	93	83.0	70.6	19	17.0	69.7
17	1964-65	—	—	—	11	55.0	69.2	9	45.0	70.3
1931/32-1966/67		²⁾ 38,437	20.3	78.6	⁷⁾ 77,042	40.7	78.2	⁷⁾ 56,481	29.9	79.5
Fin-whales.										
1	1931/32-1939/40	³⁾ 30,987	39.3	67.7	39,179	38.5	67.5	20,487	20.2	68.3
2	1940/41-1944/45	2,039	97.7	66.6	49	2.3	67.4	—	—	—
3	1945/46-1953/54	51,099	32.4	67.5	59,317	37.6	67.5	24,012	15.2	67.1
4	1954-55	4,963	19.4	67.3	13,607	53.1	66.4	2,790	10.9	66.4
5	1955-56	6,619	26.4	66.2	7,088	28.2	66.8	3,208	12.8	66.5
6	1956-57	10,697	41.9	67.4	3,812	15.0	67.2	291	1.1	64.6
7	1957-58	5,211	20.8	67.3	9,197	36.7	66.7	3,579	14.3	65.6
8	1958-59	4,298	16.7	67.1	9,385	36.6	66.4	7,277	28.3	66.5
9	1959-60	4,920	18.7	66.9	9,307	35.4	66.7	6,501	24.8	66.3
10	1960-61	5,223	19.1	66.6	13,269	48.6	67.5	2,086	7.7	65.7
11	1961-62	6,650	25.2	67.5	11,847	44.9	66.7	3,129	11.9	64.8
12	1962-63	5,570	29.9	67.0	8,977	48.2	65.9	1,725	9.3	65.4
13	1963-64	7,319	52.8	67.4	4,753	34.3	66.0	603	4.4	64.5
14	1964-65	4,528	62.0	65.6	1,199	16.4	65.7	766	10.5	64.6
15	1965-66	636	27.5	64.5	1,008	43.6	66.4	64	2.8	64.5
16	1966-67	81	2.8	65.6	1,554	53.9	66.4	372	12.9	67.0
17	1967-68	173	8.0	65.4	780	36.2	66.0	749	34.8	68.3
1931/32-1967/68		160,013	31.0	67.3	194,328	37.7	67.0	77,639	15.1	66.9
Humpbacks.										
1	1931/32-1940/41	⁴⁾ 1,288	9.3	41.3	6,257	45.3	40.8	6,243	45.2	40.6
2	1946/47-1948/49	6	37.5	44.0	9	56.3	41.7	1	6.2	45.0
3	1949-50	172	8.2	41.0	251	11.9	41.7	779	37.0	40.4
4	1950-51	2	0.1	38.5	20	1.2	38.8	1,112	68.5	40.5
5	1951-52	33	2.2	42.9	189	12.3	42.0	1,127	73.6	39.9
6	1952-53	14	1.5	44.6	218	23.2	41.2	191	20.3	39.1
7	1953-54	13	2.2	41.2	172	29.0	41.0	258	43.5	39.3
8	1954-55	2	0.4	42.5	142	28.9	41.4	—	—	—
9	1955-56	—	—	—	64	4.5	41.1	824	57.8	39.8
10	1956-57	—	—	—	8	1.2	40.8	—	—	—
11	1957-58	—	—	—	116	29.3	41.0	—	—	—
12	1958-59	—	—	—	95	4.0	42.4	1,796	75.0	39.6
13	1959-60	—	—	—	156	11.7	41.5	66	5.0	39.6
14	1960-61	3	0.4	37.3	117	16.5	41.1	4	0.6	47.5
15	1961-62	3	1.0	42.7	33	10.7	42.1	56	18.1	39.6
16	1962-63	—	—	—	32	11.9	41.6	—	—	—
1931/32-1966/67		⁶⁾ 1,537	5.4	41.3	⁵⁾ 7,881	27.5	40.9	12,457	43.5	40.3

¹⁾ Incl. 608 blue-whales, length not stated. ²⁾ Incl. 1 blue-whale caught in Area II in 1965/66. ³⁾ Incl. 198 in 1963/64. ⁴⁾ Incl. 1 humpback caught in Area II in 1965/66. ⁵⁾ Incl. 2 blue-whales caught in 1966/67.

in the different areas of Antarctic. Pelagic whaling.

Area V (130° E.-170° W.)			Area VI (170° W.-120° W.)			Area I (120° W.-60° W.)			All areas			The Whaling Statistics' total figures for whales caught.	No.
Number of whales caught.	Per cent.	Average size of the whales.	Number of whales caught.	Per cent.	Average size of the whales	Number of whales caught.	Per cent.	Average size of the whales	Number of whales caught.	Per cent.	Average size of the whales.		
		Eng. ft.			Eng. ft.			Eng. ft.			Eng. ft.		
1,326	1.1	79.9	1	—	82.0	10	—	72.9	122,263	100	79.0	128,191	1
—	—	—	—	—	—	—	—	—	2,320	100	77.9	6,161	2
6,878	17.3	79.1	1,822	4.6	79.2	45	0.1	77.7	39,656	100	78.6	39,786	3
1,462	28.6	76.9	157	3.1	77.5	—	—	—	5,101	100	78.0	5,124	4
512	13.3	76.4	317	8.2	76.9	—	—	—	3,847	100	77.5	3,866	5
83	3.1	78.2	117	4.4	76.7	—	—	—	2,667	100	78.0	2,684	6
561	26.0	76.4	128	6.0	77.0	—	—	—	2,154	100	77.8	2,163	7
15	0.9	79.1	281	17.4	76.2	254	15.8	76.3	1,611	100	77.3	1,611	8
—	—	—	617	41.0	76.3	203	13.5	76.9	1,505	100	77.0	1,505	9
76	4.5	76.9	439	26.1	76.9	125	7.4	76.1	1,682	100	77.1	1,684	10
176	14.9	78.5	246	20.7	76.9	—	—	—	1,187	100	78.3	1,191	11
391	31.8	76.6	127	10.4	76.9	18	1.5	78.7	1,228	100	75.9	1,230	12
90	5.2	78.6	213	12.2	78.0	5	0.3	77.0	1,739	100	74.0	1,740	13
74	6.6	77.4	58	5.2	76.4	221	19.8	78.2	1,116	100	75.3	1,118	14
115	12.2	82.1	25	2.6	77.9	9	1.0	75.6	944	100	73.1	947	15
—	—	—	—	—	—	—	—	—	112	100	70.4	112	16
—	—	—	—	—	—	—	—	—	20	100	69.7	20	17
11,759	6.2	78.6	4,548	2.4	77.8	890	0.5	76.9	189,157	100	78.6	199,138	
1,993	2.0	68.1	—	—	—	77	—	64.7	101,723	100	67.7	108,883	1
—	—	—	—	—	—	—	—	—	2,088	100	66.6	8,289	2
13,551	8.6	67.6	9,100	5.8	67.7	560	0.4	68.2	157,639	100	67.4	159,044	3
3,021	11.8	66.0	1,227	4.8	66.4	—	—	—	25,608	100	66.5	25,878	4
1,494	5.9	66.0	2,585	10.3	66.2	4,108	16.4	67.1	25,102	100	66.5	25,289	5
23	0.1	65.0	5,064	19.9	65.9	5,615	22.0	66.8	25,502	100	66.9	25,700	6
1,130	4.5	64.4	4,107	16.4	65.1	1,843	7.3	66.1	25,067	100	66.2	25,222	7
2,625	10.2	65.6	2,102	8.2	64.6	—	—	—	25,687	100	66.3	25,837	8
4,730	18.0	66.8	401	1.5	65.1	412	1.6	64.5	26,271	100	66.6	26,415	9
3,174	11.6	66.9	3,174	11.6	64.9	373	1.4	65.2	27,299	100	66.8	27,374	10
1,098	4.2	65.5	1,120	4.2	64.9	2,520	9.6	66.0	26,364	100	66.5	26,438	11
645	3.5	66.7	346	1.8	64.8	1,373	7.3	65.7	18,636	100	66.2	18,668	12
1,144	8.3	67.5	—	—	—	34	0.2	65.9	13,853	100	66.8	13,870	13
747	10.2	65.5	—	—	—	66	0.9	62.8	7,306	100	65.5	7,308	14
385	16.6	65.7	204	8.8	67.1	17	0.7	62.3	2,314	100	65.8	2,318	15
304	10.5	66.1	530	18.4	66.2	44	1.5	62.0	2,885	100	66.3	2,893	16
223	10.4	67.1	227	10.6	66.4	—	—	—	2,152	100	66.9	2,155	17
36,287	7.0	66.9	30,187	5.9	66.1	17,042	3.3	66.5	515,496	100	67.1	531,581	
28	0.2	40.3	—	—	—	—	—	—	3) 13,816	100	40.7	16,225	1
—	—	—	—	—	—	—	—	—	16	100	42.8	16	2
903	42.9	40.5	—	—	—	—	—	—	2,105	100	40.6	2,117	3
162	10.0	42.0	66	4.1	41.2	262	16.1	41.5	1,624	100	40.8	1,630	4
146	9.5	41.6	37	2.4	41.7	—	—	—	1,532	100	40.4	1,546	5
505	53.6	41.3	13	1.4	45.3	—	—	—	941	100	40.9	954	6
14	2.4	42.7	136	22.9	41.2	—	—	—	593	100	40.3	594	7
171	34.8	39.8	177	35.9	41.9	—	—	—	492	100	41.1	493	8
194	13.6	39.4	329	23.1	40.3	14	1.0	43.3	1,425	100	40.0	1,432	9
—	—	—	10	1.5	42.3	655	97.3	41.4	673	100	41.4	679	10
23	5.8	41.0	167	42.2	41.8	90	22.7	41.9	396	100	41.5	396	11
502	21.0	40.7	—	—	—	—	—	—	2,393	100	40.0	2,394	12
931	69.9	40.8	—	—	—	179	13.4	41.8	1,332	100	40.9	1,338	13
293	41.3	40.9	210	29.6	41.7	82	11.6	42.5	709	100	41.4	718	14
—	—	—	92	29.8	41.1	125	40.4	42.1	309	100	41.4	309	15
188	69.6	41.6	1	0.4	41.0	49	18.1	41.6	270	100	41.6	270	16
4,060	14.2	40.8	1,238	4.3	41.3	1,456	5.1	41.7	5) 28,629	100	40.7	5) 31,114	

fin-whales, length not stated. *) Incl. 2 humpbacks, length not stated. *) Incl. 2 humpbacks caught in Area III

The total number of sei-whales and sperm-whales killed in the different areas during the seasons 1966–67 and 1967–68 were as follows:

Areas	Sei-whales caught				Sperm-whales caught							
	Season 1966/67	Number	Per cent	Season 1967/68	Number	Per cent	Season 1966/67	Number	Per cent	Season 1967/68	Number	Per cent
Total	12,360	100.0		10,350	100.0		4,950	100.0		2,568	100.0	
Of which in:												
Area I ..	3	—	—	—	—	—	1	—	—	—	—	—
» II ..	1,553	12.6		194	1.9		499	10.1		201	7.8	
» III ..	6,860	55.5		2,352	22.7		1,151	23.3		489	19.1	
» IV ..	2,825	22.9		2,271	22.0		777	15.7		376	14.6	
» V ..	717	5.8		2,653	25.6		2,091	42.2		1,430	55.7	
» VI ..	402	3.2		2,880	27.8		431	8.7		72	2.8	

Table i, below, contains a summary of the number of whales killed by species in each area during the period 1931/32—1967/68. Of a total catch of 927,075 whales during this period about 56 per cent have been fin-whales, 20 per cent blue-whales, 11 per cent sperm-whales, 10 per cent sei-whales and 3 per cent humpbacks. About 64 per cent of the total catch have been taken in Areas II and III, i.e. from 60° West eastwards to 70° East Longitude.

Table i.—Number of whales killed during the seasons 1931/32—1967/68.

— 1 —

Areas	Blue-whales		Fin-whales		Humpbacks		Sei-whales		Sperm-whales		Total	
	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent
II...	38,437	20.3	160,013	31.0	1,537	5.4	40,624	44.1	21,633	21.3	262,244	28.3
III...	77,042	40.7	194,328	37.7	7,881	27.5	17,005	18.5	33,013	32.4	329,269	35.5
IV ..	56,481	29.9	77,639	15.1	12,457	43.5	9,819	10.5	21,216	20.8	177,612	19.2
V ...	11,759	6.2	36,287	7.0	4,060	14.2	12,436	13.5	20,484	20.1	85,026	9.2
VI ..	4,548	2.4	30,187	5.9	1,238	4.3	8,499	9.2	3,056	3.0	47,528	5.1
I....	890	0.5	17,042	3.3	1,456	5.1	3,635	4.0	2,373	2.4	25,396	2.7
Total	189,157	100.0	515,496	100.0	28,629	100.0	92,018	100.0	101,775	100.0	927,075	100.0

— 2 —

Species of whales	Area II		Area III		Area IV		Area V		Area VI		Area I		Total	
	No. of whales	Per cent												
Blue.....	38,437	14.7	77,042	23.4	56,481	31.8	11,759	13.8	4,548	9.6	890	3.5	189,157	20.4
Fin.....	160,013	61.0	194,328	59.0	77,639	43.7	36,287	42.7	30,187	63.5	17,042	67.1	515,496	55.6
Humpback	1,537	0.6	7,881	2.4	12,457	7.0	4,060	4.8	1,238	2.6	1,456	5.7	28,629	3.1
Sei	40,624	15.5	17,005	5.2	9,819	5.5	12,436	14.6	8,499	17.9	3,635	14.3	92,018	9.9
Sperm	21,633	8.2	33,013	10.0	21,216	12.0	20,484	24.1	3,056	6.4	2,373	9.4	101,775	11.0
Total	262,244	100.0	329,269	100.0	177,612	100.0	85,026	100.0	47,528	100.0	25,396	100.0	927,075	100.0

Table j.—Average size of whales killed in the Antarctic, by whaling grounds and species of whales 1958/59—1967/68.

Whaling grounds and species of whales.	1958 -59	1959 -60	1960 -61	1961 -62	1962 -63	1963 -64	1964 -65	1965 -66	1966 -67	1967 -68
Pelagic whaling.										
<i>Blue-whales.</i>	Engl. feet.	Engl. feet.								
Males	76.0	74.5	72.8	73.8	72.9	69.7	66.2	—	59.8	—
Females	80.2	77.0	75.2	76.7	73.3	71.2	71.2	86.0	—	—
Total animals	78.3	75.9	74.0	75.3	73.1	70.4	69.7	86.0	59.8	—
<i>Fin-whales.</i>										
Males	64.8	65.0	65.1	64.4	64.1	64.7	63.6	64.0	64.7	65.1
Females	67.8	68.1	68.4	68.2	67.8	68.6	67.1	67.2	67.8	68.4
Total animals	66.3	66.6	66.8	66.5	66.2	66.8	65.5	65.8	66.3	66.9
<i>Humpbacks.</i>										
Males	39.2	39.8	40.6	40.4	39.9	—	—	43.0	—	—
Females	40.7	41.8	42.2	41.9	42.7	40.0	—	—	—	—
Total animals	40.0	40.9	41.4	41.4	41.6	40.0	—	43.0	—	—
<i>Sei-whales.</i>										
Males	48.8	48.7	48.6	48.7	48.4	48.5	48.3	47.5	47.0	47.3
Females	51.4	51.3	51.4	51.3	50.9	50.8	50.5	48.9	48.9	49.2
Total animals	50.8	50.5	50.2	50.3	49.8	49.6	49.3	48.0	47.9	48.2
<i>Sperm-whales.</i>										
Males	47.2	47.3	46.8	46.3	46.5	45.7	45.8	46.3	¹⁾ 46.4	45.3
Females	—	39.0	—	41.0	38.6	38.6	38.2	37.8	¹⁾ 36.4	36.3
Total animals	47.2	47.3	46.8	46.3	46.4	45.3	45.6	45.3	¹⁾ 46.4	45.1
South Georgia.										
<i>Blue-whales, total</i>	64.0	73.0	72.8	—	—	—	—	—	—	—
<i>Fin-whales, total</i>	65.9	66.4	64.0	62.9	—	66.9	66.9	64.1	—	—
<i>Sei-whales, total</i>	49.8	49.5	49.3	48.6	—	49.8	49.8	53.0	—	—
<i>Sperm-whales, total</i>	46.5	47.6	46.9	46.7	—	48.7	48.4	46.4	—	—

¹⁾ Excl. 51 sperm-whales caught for scientific purposes. The average size of those whales was: Males 25.00 feet. Females 31.00 feet. Total animals 29.47 feet.

Average size of the whales killed.

Table j, above, gives the average size of whales killed in the pelagic whaling operations and from South Georgia in the seasons 1958/59—1967/68.

As will be seen from this table the average size of the fin-whales killed in 1967–68 increased by 0.6 feet to 66.9 feet. The average size of sei-whales killed was 48.2 feet, i.e. an increase of 0.3 feet as compared with the previous season. The average size of sperm-whales killed decreased by about one foot and was approximately the same as in the seasons 1963/64–1965/66.

Mature and immature whales.

Table k, page 22, gives particulars of the catch of mature and immature whales in absolute and relative figures during a series of seasons.

Whales regarded as mature, see page 23.

Table l, page 23, gives a survey of the pelagic whaling results of the individual participating countries as from 1958–59 regarding the number of whales killed, oil production and number of catchers employed.

Table k.—Antarctic, pelagic whaling. Catch of immature and mature whales 1958/59—1967/68.

	1958—59.		1959—60.		1960—61.		1961—62.		1962—63.		1963—64.		1964—65.		1965—66.		1966—67.		1967—68.	
	Number of whales.	Per cent.																		
Blue-whales.																				
Immature																				
males	175	33.0	267	46.5	618	71.3	310	61.0	356	76.6	—	—	—	—	—	—	—	—	—	
females	219	33.3	351	56.7	629	72.1	347	57.1	403	84.1	—	—	—	—	—	—	—	—	—	
animals	394	33.2	618	50.3	1,247	71.7	657	58.9	759	80.4	—	—	—	—	—	—	—	—	—	
Mature																				
males	355	67.0	307	53.5	249	28.7	198	39.0	109	23.4	—	—	—	—	—	—	—	—	—	
females	438	66.7	303	43.3	243	27.9	261	42.9	76	15.9	—	—	—	—	—	—	100.0	—	—	
animals	793	66.8	610	49.7	492	28.3	459	41.1	185	19.6	—	—	—	—	—	—	100.0	—	—	
Fin-whales.																				
Immature																				
males	3,654	28.9	3,445	27.0	3,575	27.4	4,083	34.3	3,113	37.5	2,096	32.8	1,433	42.8	418	39.8	354	25.7	230	23.3
females	4,041	31.0	3,816	28.2	3,996	28.1	4,335	30.0	3,410	33.0	2,072	27.8	1,478	37.3	451	35.7	391	25.9	244	20.9
animals	7,695	30.0	7,261	27.6	7,571	27.7	8,418	31.9	6,523	35.0	4,168	30.1	2,911	39.8	869	37.6	745	25.8	474	22.0
Mature																				
males	8,976	71.1	9,290	73.0	9,494	72.6	7,816	65.7	5,187	62.5	4,303	67.2	1,915	57.2	632	60.2	1,021	74.3	757	76.7
females	9,016	69.0	9,720	71.8	10,234	71.9	10,130	70.0	6,926	67.0	5,382	72.2	2,480	62.7	813	64.3	1,119	74.1	921	79.1
animals	17,992	70.0	19,010	72.4	19,728	72.3	17,946	68.1	12,113	65.0	9,685	69.9	4,395	60.2	1,445	62.4	2,140	74.2	1,678	78.0
Humpbacks.																				
Immature																				
males	658	57.2	271	47.7	140	37.8	40	35.7	57	52.8	—	—	—	—	—	—	—	—	—	
females	607	48.8	287	37.6	109	32.2	64	32.5	44	27.2	—	—	—	—	—	—	—	—	—	
animals	1,265	52.9	558	41.9	249	35.1	104	33.7	101	37.4	—	—	—	—	—	—	—	—	—	
Mature																				
males	492	42.8	297	52.3	230	62.2	72	64.3	51	47.2	—	—	—	—	—	—	100.0	—	—	
females	636	51.2	477	62.4	230	67.8	133	67.5	118	72.8	2	100.0	—	—	—	—	—	—	—	
animals	1,128	47.1	774	58.1	460	64.9	205	66.3	169	62.6	2	100.0	—	—	—	—	100.0	—	—	

Table I.—Antarctic, pelagic whaling results for the various countries 1958/59—1967/68.

Seasons	All countries			Norway			United Kingdom		
	Number of whales killed	Oil production	Catchers employed	Number of whales killed	Oil production	Catchers employed	Number of whales killed	Oil production	Catchers employed
1958-59	36,261	2,050,241	235	13,292	796,986	93	4,600	259,723	37
1959-60	36,355	2,050,892	220	10,656	655,033	70	4,431	257,368	31
1960-61	38,810	2,123,157	252	12,490	743,298	81	3,496	196,472	22
1961-62	37,358	2,001,961	261	9,304	568,768	71	3,130	162,552	22
1962-63	30,159	1,495,779	201	4,582	224,199	32	1,552	79,222	9
1963-64	28,921	1,299,476	190	5,631	247,432	33	—	—	—
1964-65	31,413	1,017,611	172	7,470	226,357	36	—	—	—
1965-66	24,441	634,299	128	4,751	126,696	21	—	—	—
1966-67	20,225	600,666	120	3,685	104,683	21	—	—	—
1967-68	15,080	426,497	97	1,106	34,240	5	—	—	—

Seasons	Japan			Netherlands			U.S.S.R.		
	Number of whales killed	Oil production	Catchers employed	Number of whales killed	Oil production	Catchers employed	Number of whales killed	Oil production	Catchers employed
1958-59	12,558	Barrels 646,130	69	2,226	Barrels 126,488	12	3,585	Barrels 220,914	24
1959-60	12,359	617,141	69	2,081	143,050	13	6,828	378,300	37
1960-61	13,592	667,350	83	2,212	139,774	14	7,020	376,263	52
1961-62	14,351	735,895	86	1,628	90,305	15	8,945	444,441	67
1962-63	13,617	716,838	79	1,301	79,515	11	9,107	396,005	70
1963-64	12,398	625,394	78	1,182	63,382	11	9,710	363,268	68
1964-65	15,465	504,023	71	—	—	—	8,478	287,231	65
1965-66	12,484	246,644	52	—	—	—	7,206	260,959	55
1966-67	9,429	192,477	44	—	—	—	7,111	303,506	55
1967-68	7,836	173,336	43	—	—	—	6,138	218,921	49

¹⁾ Barrel = 170 kg. (Barrel = abt. 1/6 long ton. 1 long ton = 1,016 kg.)

Whales of the following sizes are regarded as mature:

Blue-whales: Female	77 feet and over
Male	74 —, —
Fin-whales: Female	65 —, —
Male	63 —, —
Humpbacks: Female	41 —, —
Male	40 —, —

Catch results in relation to the whaling matériel and whaling period.

From the survey on next page it will be seen that there has been a great decline in the average result of blue-whale units per catcher day during the latest seasons. Thus the catch in blue-whale units per catcher day amounted to 0.68 in 1960-61 and only 0.29 in the last season.

Seasons	Area I	Area II	Average result of Area III	blue-whale units per Area IV	Area V	catcher day Area VI	All areas
1960–61	0.47	0.59	0.74	0.85	0.61	0.64	0.68
1961–62	0.53	0.45	0.57	0.57	0.39	0.38	0.51
1962–63	0.36	0.51	0.59	0.36	0.46	0.42	0.50
1963–64	0.23	0.52	0.42	0.19	0.27	—	0.41
1964–65	0.54	0.47	0.38	0.29	0.25	—	0.40
1965–66	0.32	0.38	0.39	0.17	0.14	0.21	0.31
1966–67	0.56	0.28	0.37	0.29	0.15	0.25	0.30
1967–68	—	0.20	0.29	0.30	0.24	0.32	0.29

South Georgia.

There were no whaling operations from South Georgia during the seasons 1962–63, 1966–67 and 1967–68. Otherwise, whaling has been carried on from South Georgia ever since the Antarctic whaling commenced in 1904–05.

Details on the whaling results from South Georgia during the 3 later seasons 1963–64, 1964–65 and 1965–66, when the catch was carried on, are given in the earlier publications of the International Whaling Statistics No. LVIII and No. LX.

Oil production by participating countries.

In table m, page 25, the total whaling results in the Antarctic during the seasons 1958/59–1967/68 have been distributed in respect to the individual participating countries. During the last 5 seasons the percentage proportion of the oil production of the individual countries has been as follows:

Countries	Oil production during the last 5 seasons				
	1963/64 Per cent	1964/65 Per cent	1965/66 Per cent	1966/67 Per cent	1966/68 Per cent
Japan	49.7	51.7	39.8	32.1	40.7
Netherlands	4.7	—	—	—	—
Norway	18.5	21.3	19.7	17.4	8.0
U.S.S.R.	27.1	27.0	40.5	50.5	51.3
Total	100.0	100.0	100.0	100.0	100.0

Oil production per blue-whale unit.

The average output of oil per blue-whale unit from and including the season 1958–59 has been recorded in table n, page 26. For the pelagic expeditions the average output was 114.9 barrels in 1967–68 against 109.5 and 109.7 barrels during the two preceding seasons.

Table m.—Antarctic whaling results for the various countries 1958/59—1967/68.

Years	All countries.		Norway		United Kingdom		Japan.		Argentina.		Netherlands.		U.S.S.R.	
	Number of whales.	Oil production.	Number of whales	Oil production.	Number of whales.	Oil production.	Number of whales.	Oil production.	Number of whales.	Oil production.	Number of whales.	Oil production.	Number of whales.	Oil production.
		Barrels. ¹⁾		Barrels.		Barrels.		Barrels.		Barrels.		Barrels.		Barrels.
1958-59.	38,787	2,152,659	14,071	826,037	5,424	293,660	12,558	646,130	923	39,430	2,226	126,488	3,585	220,914
1959-60.	38,688	2,148,438	11,324	681,330	5,164	288,117	12,359	617,141	932	40,500	2,081	143,050	6,828	378,300
1960-61.	41,127	2,232,884	12,490	743,298	²⁾ 5,813	²⁾ 306,199	13,592	667,350	—	—	2,212	139,774	7,020	376,263
1961-62.	38,552	2,051,776	9,304	568,768	²⁾ 4,324	²⁾ 212,367	14,351	735,895	—	—	1,628	90,305	8,945	444,441
1962-63.	30,159	1,495,779	4,582	224,199	1,552	79,222	13,617	716,838	—	—	1,301	79,515	9,107	396,005
1963-64.	29,942	1,340,758	5,631	247,432	—	—	13,419	666,676	—	—	1,182	63,382	9,710	363,268
1964-65.	32,563	1,063,416	7,470	226,357	—	—	16,615	549,828	—	—	—	—	8,478	287,231
1965-66.	24,680	644,263	4,751	126,696	—	—	12,723	256,608	—	—	—	—	7,206	260,959
1966-67.	20,225	600,666	3,685	104,683	—	—	9,429	192,477	—	—	—	—	7,111	303,506
1967-68.	15,080	426,497	1,106	34,240	—	—	7,836	173,336	—	—	—	—	6,138	218,921
<i>In per cent</i>		%	%	%	%	%	%	%	%	%	%	%	%	%
1958-59.	100.0	100.0	36.3	38.4	14.0	13.6	32.4	30.0	2.4	1.8	5.7	5.9	9.2	10.3
1959-60.	100.0	100.0	29.3	31.7	13.4	13.4	31.9	28.7	2.4	1.9	5.4	6.7	17.7	17.6
1960-61.	100.0	100.0	30.4	33.3	²⁾ 14.1	²⁾ 13.7	33.0	29.9	—	—	5.4	6.3	17.1	16.8
1961-62.	100.0	10.00	24.2	27.7	²⁾ 11.2	²⁾ 10.4	37.2	35.9	—	—	4.2	4.4	23.2	21.6
1962-63.	100.0	100.0	15.3	15.0	5.2	5.3	44.8	47.9	—	—	4.3	5.3	30.3	26.5
1963-64.	100.0	100.0	18.7	18.5	—	—	45.0	49.7	—	—	4.0	4.7	32.4	27.1
1964-65.	100.0	100.0	23.0	21.3	—	—	51.0	51.7	—	—	—	—	26.0	27.0
1965-66.	100.0	100.0	19.2	19.7	—	—	51.6	39.8	—	—	—	—	29.2	40.5
1966-67.	100.0	100.0	18.2	17.4	—	—	46.6	32.1	—	—	—	—	35.2	50.5
1967-68.	100.0	100.0	7.3	8.0	—	—	52.0	40.7	—	—	—	—	40.7	51.3

¹⁾ Barrel = 170 kg. (Barrel = abt. $\frac{1}{6}$ long ton. 1 long ton = 1,016 kg.) ²⁾ Including the catch and production of one British company registered at Falkland Islands, in 1960-61 1,262 whales and 58,016 barrels of oil or 3.1 and 2.6 per cent, respectively, in 1961-62 1,194 whales and 49,815 barrels of oil or 3.1 and 2.4 per cent, respectively.

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

Years.	South Georgia.	Pelagic whaling.	Years.	South Georgia.	Pelagic whaling.
	Barrels ²⁾	Barrels ²⁾		Barrels	Barrels
1958-59.....	114.0	118.2	1963-64.....	112.1	122.0
1959-60.....	123.0	120.5	1964-65.....	117.9	121.0
1960-61.....	127.2	116.9	1965-66.....	84.1	109.7
1961-62.....	112.9	118.1	1966-67.....	—	109.5
1962-63.....	—	114.6	1967-68.....	—	114.9

¹⁾ Other whales are reduced to blue-whale units on the following basis: — 1 blue-whale = 2 fin-whales = 2½ humpbacks = 6 sei-whales. ²⁾ Barrel = 170 kg. (Barrel = abt. ¼ long ton. 1 long ton = 1,016 kg.)

The average output of oil per blue-whale unit per area from and including the season 1960-61 has been recorded in the survey below:

Seasons	Average oil output per blue-whale unit during the last 8 seasons						Total Barrels
	Area I Barrels	Area II Barrels	Area III Barrels	Area IV Barrels	Area V Barrels	Area VI Barrels	
1960-61 ..	108.5	140.3	112.8	101.9	115.1	110.1	116.9
1961-62 ..	125.0	136.7	111.5	95.8	114.7	120.7	118.1
1962-63 ..	114.4	131.0	106.1	105.9	122.8	103.2	114.6
1963-64 ..	—	130.3	112.8	101.4	109.9	—	122.0
1964-65 ..	134.3	123.7	110.5	103.9	114.7	—	121.0
1965-66 ..	109.7	105.5	108.7	116.7	119.2	139.9	109.7
1966-67 ..	—	102.6	103.1	126.7	116.0	114.2	109.5
1967-68 ..	—	119.9	108.8	114.3	108.7	128.7	114.9

Table o, below, is recording the average weekly production of whaleoil per blue-whale unit for the pelagic expeditions during the last two seasons.

Table o.—Average weekly production of whale-oil per blue-whale unit in the pelagic whaling 1966-67 and 1967-68.

Season 1966-67.			Season 1967-68.				
Week ending	Production of whale-oil.	Number of blue-whale units worked up.	Prod. per blue-whale unit.	Week ending	Production of whale-oil.	Number of blue-whale units worked up.	Prod. per blue-whale unit.
	Barrels.		Barrels.		Barrels.		Barrels.
17/12 1966	21,344	246.4	86.6	16/12 1967	7,562	100.6	75.2
24/12 "	25,936	258.5	100.3	23/12 "	13,224	152.2	86.9
31/12 "	21,485	214.1	100.4	30/12 "	18,089	165.1	109.6
7/1 1967	18,413	183.0	100.6	6/1 1968	16,325	165.4	98.7
14/1 "	26,159	231.0	112.9	13/1 "	21,361	202.7	129.1
21/1 "	21,900	217.7	100.6	20/1 "	23,051	198.3	116.2
28/1 "	20,912	205.4	101.8	27/1 "	25,843	231.4	111.7
4/2 "	28,564	253.9	112.5	3/2 "	24,091	202.0	119.3
11/2 "	32,142	284.2	113.1	10/2 "	24,020	188.8	127.2
18/2 "	38,210	338.8	113.1	17/2 "	20,953	173.6	120.7
25/2 "	43,748	394.9	110.8	24/2 "	31,146	238.0	130.9
4/3 "	30,487	237.4	128.4	2/3 "	26,243	229.8	114.2
11/3 "	31,620	254.6	124.2	9/3 "	31,505	250.6	125.7
18/3 "	10,625	87.4	121.6	16/3 "	25,753	199.5	129.1
25/3 "	7,299	65.4	111.6	23/3 "	8,729	68.7	127.1
1/4 "	3,622	28.2	128.4	30/3 "	3,229	26.6	121.4
7/4 "	509	5.0	101.8	7/4 "	829	7.7	107.7
Total	382,975	3,506.5	109.2	Total	321,953	2,801.0	114.9

**Table p.—Production of by-products in the Antarctic whaling in the seasons
1949/50—1967/68.**

By-products Seasons Countries	Whale meat-meal, bone-meal, grax meal, guano	Whale liver or liver flakes	Liver- oil	Liver meal	Whale meat, blubber, ventral grooves	Whale solubles	Other by- products ¹⁾
1949-50 Total	Long tons 25,852	L. tons 817	L. tons 250	L. tons 573	L. tons 46,824	L. tons 779	L. tons 1,629
1950-51 Total	25,821	841	264	622	28,389	2,444	990
1951-52 Total	24,116	823	195	435	28,299	5,760	874
1952-53 Total	25,584	601	155	456	28,581	5,390	191
1953-54 Total	35,660	185	199	385	34,792	9,885	2,072
1954-55 Total	35,519	669	218	115	42,681	8,508	3,956
1955-56 Total	43,189	755	252	162	45,835	7,546	2,815
1956-57 Total	42,735	692	255	156	70,720	6,526	4,871
1957-58 Total	44,914	595	238	113	85,595	9,633	12,100
1958-59 Total	41,284	645	187	138	78,658	2,153	21,280
1959-60 Total	53,024	1,316	131	—	95,997	1,038	22,651
1960-61 Total	56,031	1,937	134	—	124,698	2,169	29,718
1961-62 Total	47,696	2,336	102	—	178,670	—	39,985
1962-63.							
Norway	2,815	—	—	—	21,643	—	52
United Kingdom	4,942	—	—	—	—	—	406
Netherlands	1,275	334	—	—	7,793	—	60
U.S.S.R.	19,139	1,160	—	—	13,229	—	—
Japan	7,332	196	87	—	121,023	—	28,174
Total	35,503	1,690	87	—	163,688	—	28,692
1963-64.							
Norway	4,260	—	—	—	21,125	—	968
Netherlands	977	317	—	—	6,922	—	48
U.S.S.R.	18,142	2,178	—	—	14,742	—	—
Japan	8,276	197	97	—	130,947	—	26,657
Total	31,655	2,692	97	—	173,736	—	27,673
1964-65.							
Norway	5,374	148	—	—	7,142	—	2,452
Japan	10,090	522	12	—	147,721	—	24,211
U.S.S.R.	18,214	2,542	²⁾ —	—	16,799	—	2
Total	33,678	3,212	12	—	171,662	—	26,665
1965-66.							
Norway	2,559	315	—	—	13,547	—	1,242
Japan	3,561	406	—	—	107,130	—	17,102
U.S.S.R.	12,638	1,603	³⁾ —	—	15,822	—	108
Total	18,758	2,324	—	—	136,499	—	18,452
1966-67.							
Norway	1,329	293	—	—	21,417	—	449
Japan	1,277	299	—	—	90,968	193	14,616
U.S.S.R.	14,122	1,543	⁴⁾ —	—	16,643	—	59
Total	16,728	2,135	—	—	129,028	193	15,124
1967-68.							
Norway	—	—	—	—	7,630	—	—
Japan	2,020	—	—	—	79,526	2,444	10,711
U.S.S.R.	11,962	985	⁵⁾ —	—	16,826	—	128
Total	13,982	985	—	—	103,982	2,444	10,839

¹⁾ Products such as: Teeth, baleen, ambergris, pancreas, processed bone, bone fertilizer, protein, hypophyses, internal organs, blubber for leather, gelatin material, tail flukes, whale meat-extract etc. ²⁾ In addition 1,168,000 Mill. units of Vitamin A (Liver oil) were produced. ³⁾ In addition 865,000 Mill. units of Vitamin A (Liver oil) were produced. ⁴⁾ In addition 1,118,000 Mill. units of Vitamin A (Liver oil) were produced. ⁵⁾ In addition 885,000 Mill. units of Vitamin A (Liver oil) were produced.

By-products.

In table p, page 27, detailed information is given on the production of by-products in the Antarctic during the seasons 1949/50–1967/68. From and including the season 1962–63 the figures are distributed in respect to the individual countries.

TABLES

Antarctic season 1967/68.

Table No. 1.—Whaling results for the various countries in the Antarctic in the season 1967/68.

Pelagic whaling.

Countries. Geographical areas.	Species of whales caught.						Oil production.	Expeditions.		
	Blue.	Fin.	Hump-back.	Sei.	Sperm.	Total of whales.		Shore stations.	Floating factories.	Catchers.
Japan:— Antarctic, pelagic	—	613	—	7,119	104 ²⁾	7,836	173,336	—	4	43
U.S.S.R.:— Antarctic, pelagic	—	1,182	—	2,566	2,390 ³⁾	6,138	218,921	—	3	49
Norway:— Antarctic, pelagic	—	360	—	672	74	1,106	34,240	—	1	5
Total	—	2,155	—	10,357	2,568	15,080	426,497	—	8	97

¹⁾ Barrel = 170 kg. (Barrel = abt. $\frac{1}{4}$ long ton, 1 long ton = 1,016 kg.)

²⁾ In addition 597 Minke-whales were caught.

³⁾ In addition 8 Minke-whales, 1 bottlenose and 2 Killer-whales were caught.

Table No. 2.—Average size of whales caught in the Antarctic in the season 1967/68.

Pelagic whaling.

Geographical areas. Number of whales measured.	Company.	Average size.		
		Males.	Females.	Total animals.
		Engl. feet.	Engl. feet.	Engl. feet.
Fin-whales.				
<i>Antarctic, pelagic whaling</i>	No. 1	68.23	71.54	70.31
<i>Males 987</i>	” 2	66.56	69.50	68.43
<i>Females 1,165</i>	” 3	65.92	69.66	68.20
<i>Total 2,152.</i>	” 4	65.01	67.69	66.48
	” 5	64.39	67.52	65.95
	” 6	64.67	67.23	65.95
	” 7	64.38	67.43	65.89
Average		65.14	68.42	66.92

Table No. 2 (continued).

Geographical areas. Number of whales measured.	Company.	Average size.		
		Males.	Females.	Total animals.
		Engl. feet.	Engl. feet.	Engl. feet.
Sei-whales.				
<i>Antarctic, pelagic whaling</i>	No. 1	48.66	51.38	49.94
Males 5,649}	" 2	48.55	50.34	49.41
Females 4,701}	Total 10,350.	47.93	50.27	49.02
	" 3	47.52	49.16	48.26
	" 4	47.15	49.29	48.23
	" 5	47.13	49.12	47.95
	" 6	47.00	48.23	47.54
	" 7	45.48	46.30	45.85
Average		47.32	49.18	48.16
Sperm-whales.				
<i>Antarctic, pelagic whaling</i>	No. 1	48.50	—	48.50
Males 2,511}	" 2	46.19	37.47	45.67
Females 57}	Total 2,568.	47.06	—	47.06
	" 3	44.31	34.93	44.20
	" 4	43.99	—	43.99
	" 5	43.52	—	43.52
	" 6	43.41	—	43.41
Average		45.28	36.84	45.09

Table No. 3.—Whales caught in the Antarctic in the season 1967/68, by species, sex and size.

Pelagic whaling.**Fin-whales.**

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
54	3	2	5	71	36	81	117
55	4	—	4	72	18	77	95
56	2	2	4	73	8	91	99
57	31	26	57	74	5	62	67
58	35	18	53	75	—	50	50
59	26	12	38	76	—	35	35
60	30	32	62	77	1	12	13
61	44	31	75	78	—	11	11
62	55	38	93	79	—	3	3
63	57	38	95	82	—	1	1
64	86	45	131	Sum		987	1,165
65	132	56	188				2,152
66	106	69	175	Average size		Males: 65.14 feet	
67	98	78	176			Females: 68.42 "	
68	90	96	186			Total animals: 66.92 "	
69	66	101	167			Males: 45.86	
70	54	98	152	Per cent		Females: 54.14	

Table No. 3 (continued).

Sei-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
38	1	1	2	53	17	356	373
39	2	4	6	54	4	166	170
40	97	96	193	55	2	93	95
41	130	119	249	56	—	23	23
42	135	110	245	57	—	6	6
43	169	130	299	58	—	1	1
44	250	119	369	Sum	5,649	4,701	10,350
45	365	172	537				
46	654	219	873				
47	869	280	1,149	Average size	Males:	47.32 feet	
48	944	343	1,287		Females:	49.18 "	
49	901	481	1,382		Total animals:	48.16 "	
50	668	612	1,280	Per cent	Males:	54.58	
51	317	653	970		Females:	45.42	
52	124	717	841				

Sperm-whales.

Engl. feet.	Number of		Total animals.	Engl. feet.	Number of		Total animals.
	males.	females.			males.	females.	
33	—	2	2	49	206	—	206
34	1	3	4	50	144	—	144
35	2	9	11	51	102	—	102
36	5	9	14	52	75	—	75
37	9	9	18	53	32	—	32
38	39	15	54	54	9	—	9
39	138	10	148	56	1	—	1
40	132	—	132	Sum	2,511	57	2,568
41	176	—	176				
42	158	—	158				
43	187	—	187	Average size	Males:	45.28 feet	
44	172	—	172		Females:	36.84 "	
45	248	—	248		Total animals:	45.09 "	
46	238	—	238	Per cent	Males:	97.78	
47	244	—	244		Females:	2.22	
48	193	—	193				

**Table No. 4.—Whales caught in the Antarctic in the season 1967/68,
by species, sex and groups of size.**

Antarctic, pelagic whaling.

Fin-whales.

	Number of whales.	Per cent.
Group 1. (55 feet and less)	9	0.42
" 2. (56 feet to and incl. 65 feet)	796	36.99
" 3. (above 65 feet)	1,347	62.59
	2,152	100.00
Immature males	230	23.30
" females	244	20.94
" animals	474	22.03
Mature males	757	76.70
" females	921	79.06
" animals	1,678	77.97

**Table No. 5.—Average production of whale oil per blue-whale unit in
the Antarctic in the season 1967/68.**

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

Geographical areas.	Expedition.	Blue-whale units. ¹⁾	Oil production.	
			Total.	Average per blue-whale unit.
<i>Antarctic, pelagic whaling</i>	No. 1	360.0	45,508	126.4
	" 2	413.0	50,106	121.3
	" 3	368.0	42,360	115.1
	" 4	288.4	32,947	114.2
	" 5	425.0	47,706	112.2
	" 6	425.0	47,118	110.9
	" 7	291.8	31,720	108.7
	" 8	229.8	24,488	106.6
	Total	2,801.0	321,953	114.9

¹⁾ This refers to whales worked up.

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

Table No. 6.—Size of pregnant whale females caught in the Antarctic in the season 1967/68.

Antarctic, pelagic whaling.

Fin-whale females.

Length of mothers. Engl. feet.	Number of pregnant animals.	Length of mothers. Engl. feet.	Number of pregnant animals.	
62	2	73	64	
63	7	74	38	
64	7	75	30	
65	15	76	21	
66	36	77	6	
67	43	78	6	
68	51	79	2	
69	58	82	1	
70	54			
71	50	Total	540	
72	49			

Sei-whale females.

Length of mothers. Engl. feet.	Number of pregnant animals.	Length of mothers. Engl. feet.	Number of pregnant animals.	
40	5	51	328	
42	2	52	419	
43	3	53	209	
44	7	54	109	
45	20	55	57	
46	49	56	14	
47	83	57	5	
48	145			
49	225	Total	2,013	
50	333			

Sperm-whale females.

Engl. feet.			
33	1		
35	5		
36	2		
Total	8		Total number of sperm-whale females measured 14, of which pregnant animals 8, or 57.14 per cent.

Table No. 7.—Whale foetuses measured in the Antarctic in the season 1967/68, by species and groups of size, in each month.

Antarctic, pelagic whaling.

Fin-whale foetuses.

Groups of size. Engl. feet.	Dec.	Jan.	Febr.	March	Total
0'— 0' 11"	3	4	—	—	7
1'— 1' 11"	4	18	3	3	28
2'— 2' 11"	6	21	7	8	42
3'— 3' 11"	11	16	6	8	41
4'— 4' 11"	13	31	11	18	73
5'— 5' 11"	9	24	15	7	55
6'— 6' 11"	7	12	10	9	38
7'— 7' 11"	1	19	19	5	44
8'— 8' 11"	4	9	18	9	40
9'— 9' 11"	1	13	12	10	36
10'—10' 11"	—	8	17	11	36
11'—11' 11"	—	7	15	11	33
12'—12' 11"	1	—	7	18	26
13'—13' 11"	—	—	6	8	14
14'—14' 11"	—	—	3	6	9
15'—15' 11"	—	—	4	9	13
16'—16' 11"	—	—	2	4	6
17'—17' 11"	—	—	—	1	1
21'—21' 11"	1	—	—	—	1
Total fin-whale foetuses	61	1) 183	155	145	1) 544
Average size of foetuses	4' 8"	5' 5"	8' 5"	9' 1"	7' 2"

¹⁾ Incl. 1 fin-whale foetus, length not stated.

Sei-whale foetuses.

Groups of size. Engl. feet.	Dec.	Jan.	Febr.	March.	April.	Total.
0'— 0' 11"	2	—	—	—	—	2
1'— 1' 11"	11	2	—	—	—	13
2'— 2' 11"	29	8	6	—	—	43
3'— 3' 11"	55	46	15	1	—	117
4'— 4' 11"	94	76	26	7	—	203
5'— 5' 11"	65	106	57	17	—	245
6'— 6' 11"	32	182	94	29	1	338
7'— 7' 11"	5	143	113	18	—	279
8'— 8' 11"	1	68	156	54	—	279
9'— 9' 11"	3	19	134	75	—	231
10'—10' 11"	3	5	70	88	—	166
11'—11' 11"	1	—	16	76	—	93
12'—12' 11"	—	1	3	17	—	21
13'—13' 11"	—	—	—	12	1	13
14'—14' 11"	—	—	—	1	—	1
15'—15' 11"	—	—	—	2	—	2
Total sei-whale foetuses	301	1) 657	690	397	2	1) 2,047
Average size of foetuses	4' 7"	6' 4"	7' 11"	9' 8"	9' 6"	7' 3"

¹⁾ Incl. 1 sei-whale foetus, length not stated.

Table No. 7 (continued).

Sperm-whale foetuses.

Groups of size, Engl. feet.	April	May	Total
4'—4' 11"	3	—	3
5'—5' 11"	1	—	1
6'—6' 11"	2	—	2
9'—9' 11"	—	1	1
13'—11' 13"	1	—	1
Total sperm-whale foetuses	7	1	8
Average size of foetuses	6' 3"	9' 7"	6' 8"

Table No. 8.—Whale foetuses measured in the Antarctic in the season 1967/68, by species and sex, in each month.

Antarctic, pelagic whaling.

Kind of foetuses. Months.	Number of		Sex not stated.	Total foetuses.	Number of males per 100 females.
	males.	females.			
Fin-whale foetuses.					
December	29	29	3	61	100.00
January	70	87	26	183	80.45
February	84	70	1	155	120.00
March	64	81	—	145	79.01
Total	247	267	30	544	92.51
Sei-whale foetuses.					
December	118	136	47	301	86.76
January	343	307	7	657	111.73
February	341	349	—	690	97.71
March	181	215	1	397	84.19
April	1	1	—	2	100.00
Total	984	1,008	55	2,047	97.62
Sperm-whale foetuses.					
April	2	5	—	7	40.00
May	1	—	—	1	—
Total	3	5	—	8	60.00

