

INTERNATIONAL  
WHALING STATISTICS  
LXXXVI

EDITED BY  
THE COMMITTEE FOR WHALING STATISTICS

SANDEFJORD 1980

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## **PREFACE**

This publication, International Whaling Statistics No. LXXXVI, embraces the results of the Antarctic whaling during the season 1979/80.

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

Sandefjord, November 1980.

*Einar Vangstein.*



## INTRODUCTION

At the 31st Annual Meeting of the International Whaling Commission in 1979 the catch limits for the Southern Hemisphere for the 1979/80 pelagic season and the 1980 coastal season were set at 8,102 minke whales, 264 Bryde's whales and 580 sperm whales.

At the meeting it was agreed to forbid the use of a factory ship or whale catchers attached to factory ships for taking, killing or treating of whales, excluding minke whales. The quotas set for Bryde's whales and sperm whales could therefore only be obtained from shore stations.

The quotas set for minke whales were sub-divided on an Area basis, and by agreement between Japan, USSR and Brazil the quota was split into national quotas as follows:

	Catch limit	Japan	National quotas USSR	Brazil
Area I.....	1,060	—	1,060	—
Area II.....	1,370	—	426	944
Area III.....	2,718	1,259	1,459	—
Area IV.....	2,043	1,700	343	—
Area V.....	1,454	524	930	—
Area VI.....	267	217	50	—
<hr/>				
The total catch not to exceed..	8,102	3,279	3,879	944
<hr/>				

Bryde's whales could only be taken in Area I (60° W—120° W), sperm whales could be caught in Divisions 1 (60° W—30° W) and 9 (100° W—60° W), and the quotas were set at 30 and 550 animals respectively.

One Japanese and two USSR floating factories with a total of 17 catchers took part in pelagic whaling operation.

The catch by the pelagic expeditions amounted to:

	Japan	USSR	Total
Area I.....	—	944	944
Area II.....	—	301	301
Area III.....	1,253	1,455	2,708
Area IV.....	1,530	331	1,861
Area V.....	496	848	1,344
Area VI.....	—	—	—
Total .....	3,279	3,879	7,158

In addition 916 killer whales were caught by USSR.

The average size (in English feet) of minke whales and killer whales caught in the different Areas were:

	Minke whales			Killer whales		
	M	F	Total	M	F	Total
Area I .....	27.3	28.9	27.9	—	—	—
Area II .....	27.7	29.7	29.5	25.3	21.0	22.3
Area III .....	27.8	29.3	28.8	21.0	17.9	19.5
Area IV .....	27.7	29.0	28.2	27.5	21.2	24.1
Area V .....	27.7	29.5	28.8	22.9	20.0	21.4
Area VI .....	—	—	—	—	—	—
Total .....	27.7	29.3	28.6	22.6	19.4	20.9

The catch by month was:

	Minke whales			Killer whales		
	M	F	Total	M	F	Total
November.....	240	107	347	—	—	—
December .....	848	984	1,832	—	—	—
January .....	871	1,505	2,376	144	140	284
February .....	1,087	1,323	2,410	110	142	252
March .....	110	83	193	196	184	380
Total .....	3,156	4,002	7,158	450	466	916

Table a shows the catch and production, table b average size, table c whaling results for the various countries and table d the production of by-products. The tables also include data for 1971/72—1978/79 inclusive. Corresponding figures for the seasons 1961/62—1970/71 will be found in publication No. LXVIII. In No. XLVIII tables are published showing catch and production in Antarctic for the seasons 1919/20—1960/61.

Table a. - Pelagic whaling in the Antarctic.

Years	Species of whales caught								Oil production Barrels	Expeditions	
	Blue	Fin	Hump-back	Sei/Bryde's	Minke	Sperm	Others	Total		Floating factories	Catchers
1971/72	—	2,683	3	5,456	3,021	3,366		14,529	387,064	7	89 <sup>1)</sup>
1972/73	7	1,761	5	3,864	5,745	4,203		15,585	345,539	7	82
1973/74	—	1,288	—	4,392	7,713	4,927		18,320	334,065	8	78
1974/75	—	979	—	3,859	7,000	4,162		16,000	292,504	7	75
1975/76	—	206	—	1,821	6,034	2,829		10,890	180,076	5	56
1976/77	—	—	—	1,858	7,900	2,002		11,760	137,460	4	43
1977/78	—	—	—	565	4,978	2,160		7,703	130,004	3	34
1978/79	—	—	—	—	5,466	2,304		7,770	136,761	3	30
1979/80	—	—	—	—	7,158	—	<sup>2)</sup> 916	8,074	32,495	3	17

<sup>1)</sup> Including 1 combined floating factory/catcher. <sup>2)</sup> Killer whales.

Table b. - Average size of whales killed in the Antarctic, by species of whales.

	Fin whales			Sei whales			Minke whales			Sperm whales		
	Males Engl. feet	Fe-males Engl. feet	Total Engl. feet	Males Engl. feet	Fe-males Engl. feet	Total Engl. feet	Males Engl. feet	Fe-males Engl. feet	Total Engl. feet	Males Engl. feet	Fe-males Engl. feet	Total Engl. feet
1971/72	64.3	67.0	65.7	46.4	47.9	47.1	27.3	28.5	28.0	45.0	37.5	44.7
1972/73	64.7	67.7	66.2	46.9	48.2	47.5	26.3	27.1	26.7	45.1	34.8	44.3
1973/74	63.9	66.8	65.5	47.1	48.8	47.9	26.5	27.8	27.3	44.7	34.7	42.2
1974/75	64.5	67.4	66.0	47.3	48.5	47.8	26.9	28.3	27.8	44.9	34.5	42.8
1975/76	64.2	67.6	65.9	47.2	48.5	47.8	27.2	28.3	27.8	46.5	35.0	45.0
1976/77	—	—	—	47.0	48.6	47.7	27.4	28.7	28.2	46.0	34.1	45.2
1977/78	—	—	—	47.7	50.3	49.0	27.4	28.8	28.3	47.0	35.3	46.7
1978/79	—	—	—	—	—	—	27.7	28.8	28.4	48.2	35.0	47.8
1979/80	—	—	—	—	—	—	27.7	29.3	28.6	—	—	—

Table c. - Antarctic, pelagic whaling results for the various countries.

	All countries			Japan			Norway			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	Number of whales killed	Oil production	Catchers employed
		Barrels			Barrels			Barrels			Barrels	
1971/72	14,529	387,064	89	8,711	159,610	41	3	36	1 <sup>1)</sup>	5,815	227,418	47
1972/73	15,585	345,539	82	6,285	119,307	35	—	—	—	9,300	226,232	47
1973/74	18,320	334,065	78	7,087	84,998	31	—	—	—	11,233	249,067	47
1974/75	16,000	292,504	75	6,656	89,547	30	—	—	—	9,344	202,957	45
1975/76	10,890	180,076	56	4,597	43,588	23	—	—	—	6,293	136,488	33
1976/77	11,760	137,460	43	5,316	37,067	18	—	—	—	6,444	100,393	25
1977/78	7,703	130,004	34	2,668	11,864	10	—	—	—	5,035	118,140	24
1978/79	7,770	136,761	30	2,751	7,970	7	—	—	—	5,019	128,761	23
1979/80	8,074	32,495	17	3,979	11,118	7	—	—	—	4,795	21,377	10

<sup>1)</sup> Combined catcher/floating factory.

**Table d. - Production of by-products in the Antarctic.<sup>1)</sup>**

Seasons Countries	Whale meat-meal, bone-meal, grax meal, guano	Whale liver or liver flakes	Liver oil Mill. units Vitamin A	Whale meat, blubber, ventral grooves	Whale solubles	Other products
	L. tons	L. tons		L. tons	L. tons	L. tons
1971/72 .....	13,397	1,791	1,253,000	104,438	1,574	1,211
1972/73 .....	13,423	1,516	1,915,000	87,384	1,624	12,216
1973/74 .....	14,659	1,694	2,092,000	93,338	1,723	3,412
1974/75 .....	14,210	1,700	2,063,000	95,863	1,151	301
1975/76 .....	7,982	1,737	—	66,308	—	155
1976/77 .....	6,565	1,302	—	64,911	—	188
1977/78 .....	5,426	1,396	681 l.t.	46,182	—	39
1978/79 .....	4,740	1,234	—	42,983	—	23
<b>1979/80</b>						
Japan .....	—	—	—	14,276	—	7
USSR .....	2,096	193	85	16,732	—	9
<b>Total .....</b>	<b>2,096</b>	<b>193</b>	<b>85</b>	<b>31,008</b>	<b>—</b>	<b>16</b>

<sup>1)</sup> Including by-products from whales caught north of 40° S.

## TABLES

## Antarctic season 1979/80.

**Table 1. - Whaling results for the various countries in the Antarctic in the season 1979/80.****Pelagic whaling.**

Countries	Species of whales caught			Oil production. Barrels of 170 kg	Expeditions	
	Minke	Killer	Total		Floating factories	Catchers
Japan .....	3,279	—	3,279	11,118	1	7
USSR .....	3,879	916	4,795	<sup>1)</sup> 21,377	2	10
<b>Total</b> .....	<b>7,158</b>	<b>916</b>	<b>8,074</b>	<b>32,495</b>	<b>3</b>	<b>17</b>

<sup>1)</sup> Inclusive 2,241 barrels from killer whales.

**Table 2. — Average size of whales caught in the Antarctic in the season 1979/80.****Pelagic whaling.**

Number of whales measured.	Expedition.	Average size.		
		Males.	Females.	Total.
<b>Minke whales.</b>				
Males 3.156 } Females 4.002 } Total 7,158	No. 1	27.6	28.7	28.0
	2	27.6	29.4	28.8
	3	28.6	29.8	29.5
Average		27.7	29.3	28.6

**Table 3.—Whales caught in the Antarctic in the season 1979/80,  
by species, sex and size.**

**Pelagic whaling.**

**Minke whales.**

Engl. feet	Number of		Total	Engl. feet	Number of		Total
	males	females			males	females	
21	1	3	4	32	1	80	81
22	1	—	1	33	—	8	8
23	23	10	33	34	—	1	1
24	48	25	73	Total	3,156	4,002	7,158
25	131	47	178	Average size: { Males 27.7 feet { Females 29.3 „ { Total 28.6 „  Per cent: { Males 44.1 { Females 55.9			
26	358	84	442				
27	768	222	990				
28	931	565	1,496				
29	705	1,113	1,818				
30	153	1,207	1,360				
31	36	637	673				

**Killer whales.**

Engl. feet	Number of		Total	Engl. feet	Number of		Total
	males	females			males	females	
11	—	1	1	27	9	—	9
12	—	1	1	28	14	—	14
13	1	3	4	29	21	—	21
14	1	6	7	30	1	—	1
15	4	9	13	Total	450	466	916
16	6	25	31	Average size: { Males 22.6 feet { Females 19.4 „ { Total 20.9 „  Per cent: { Males 49.1 { Females 50.9			
17	6	66	72				
18	13	46	59				
19	39	60	99				
20	32	85	117				
21	52	88	140				
22	69	56	125				
23	72	17	89				
24	45	2	47				
25	41	1	42				
26	24	—	24				

**Table 4.—Size of pregnant female whales caught in the Antarctic in the season 1979/80.****Pelagic whaling.****Minke whales.<sup>1)</sup>**

Length	Number of pregnant females	Length	Number of pregnant females	Number of fetuses measured ..... 3,384 of which twin pairs ..... 13 triplets ..... 1
25	1	31	564	
26	26	32	66	
27	134	33	7	
28	469	34	1	
29	1,011	Total	3,369	
30	1,090			

<sup>1)</sup> Exclusive of 78 females with no information of pregnancy.

**Killer whales.**

Length	Number of pregnant females	Length	Number of pregnant females	Number of fetuses measured ..... 143
12	1	20	35	
14	1	21	32	
16	11	22	10	
17	14	23	3	
18	15	Total	143	
19	21			

**Table 5.—Whale fetuses measured in the Antarctic in the season 1979/80, by species and groups of size, in each month.****Pelagic whaling.****Minke whale fetuses.**

Groups of size. Engl. feet	November	December	January	February	March	Total
0'— 0' 11" <sup>1)</sup> .....	41	406	289	138	7	881
1'— 1' 11" .....	37	296	474	289	19	1,115
2'— 2' 11" .....	2	103	301	283	17	706
3'— 3' 11" .....	2	24	125	198	10	359
4'— 4' 11" .....	—	8	68	104	7	187
5'— 5' 11" .....	—	—	15	58	7	80
6'— 6' 11" .....	—	—	9	26	3	38
7'— 7' 11" .....	—	1	1	6	2	10
8'— 8' 11" .....	—	3	—	1	—	4
9'— 9' 11" .....	—	1	2	—	—	3
10'—10' 11" .....	—	1	—	—	—	1
Total .....	82	843	1,284	1,103	72	3,384
Average size .....	0' 10"	1' 1"	1' 9"	2' 5"	2' 9"	1' 9"

<sup>1)</sup> Including very small fetuses (first stage) not measured and fetuses lost.

Table 5 (continued).

## Killer whale foetuses.

Groups of size, Engl. feet	January	February	March	Total
0'—0' 11" <sup>1)</sup> .....	17	15	10	42
1'—1' 11" .....	3	5	2	10
2'—2' 11" .....	1	2	—	3
3'—3' 11" .....	—	—	1	1
4'—4' 11" .....	1	—	1	2
5'—5' 11" .....	2	5	1	8
6'—6' 11" .....	6	6	7	19
7'—7' 11" .....	14	13	13	40
8'—8' 11" .....	8	4	4	16
9'—9' 11" .....	2	—	—	2
Total .....	54	50	39	143
Average size .....	4' 4"	3' 10"	4' 7"	4' 3"

<sup>1)</sup> Including very small foetuses (first stage) not measured and foetuses lost.

**Table 6.—Whale foetuses measured in the Antarctic in the season 1979/80, by species and sex, in each month.**

## Pelagic whaling.

	Number of		Sex not determined	Total	Number of males per 100 females
	males	females			
<b>Minke whale foetuses.</b>					
November .....	36	36	10	82	100
December .....	399	308	136	843	130
January .....	559	631	94	1,284	89
February .....	510	531	62	1,103	96
March .....	36	33	3	72	109
Total .....	1,540	1,539	305	3,384	100
<b>Killer whale foetuses.</b>					
January .....	21	17	16	54	123
February .....	16	19	15	50	84
March .....	9	20	10	39	45
Total .....	46	56	41	143	82

