

Minifacts

The Norwegian Ministry of Fisheries
Visiting Address: Grubbegata 1
Postal Address: P.O.Box 8118 Dep., NO-0032 Oslo
Telephone: +47 22 24 90 90
Fax: +47 22 24 95 85
E-mail: postmottak@fid.dep.no
Internet: www.fid.dep.no

Aquaculture and fisheries 2003



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1. NORWEGIAN SEAFOOD PRODUCTION

Seafood production 2001. Tonnes

	Catches	Fish-farming	Total
Worldwide	91 768 963	37 686 473	129 455 436
Norway	2 687 303	512 101	3 199 404

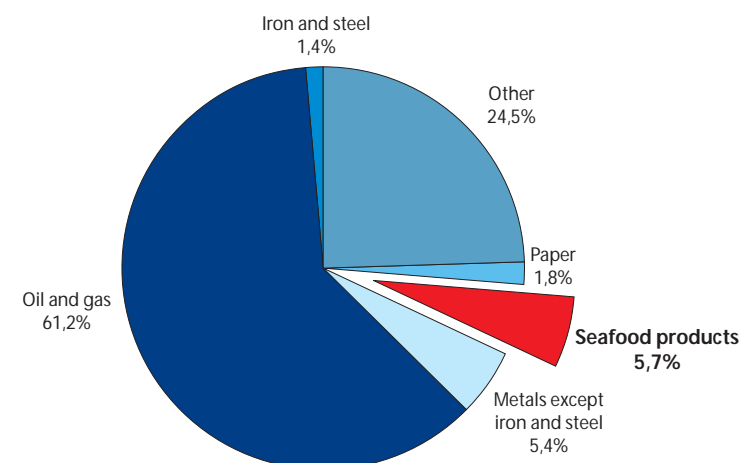
Source: FAO (Food and Agriculture Organization, UN), The Norwegian Seafood Export Council

The world seafood exports 2001

	Tonnes	1000 USD
Worldwide	26 200 474	55 352 337
Norway	1 856 199	3 363 955

Source: FAO (Food and Agriculture Organization, UN), The Norwegian Seafood Export Council

Fisheries and aquacultures share of Norwegian export 2002



Source: Statistics Norway, The Norwegian Seafood Export Council

**Largest seafood production nations - catches and fish-farming 2001.
Million tonnes**

Country	Quantity
China	42.6
Peru	8.0
India	6.0
Japan	5.5
USA	5.4
Indonesia	5.1
Chile	4.4
Russia	3.7
Thailand	3.6
Norway	3.2

Source: FAO (Food and Agriculture Organization, UN), The Norwegian Seafood Export Council

Largest seafood export nations 2001.

Country	USD Mill.	NOK Mill.	Exchange rate
Thailand	4 039	36 300	8.98749
China	3 999	35 941	
Norway	3 364	30 234	
USA	3 316	29 803	
Canada	2 798	25 147	
Denmark	2 666	23 961	
Chile	1 939	17 427	
Spain	1 848	16 609	
Taiwan	1 821	16 366	
Vietnam	1 781	16 007	

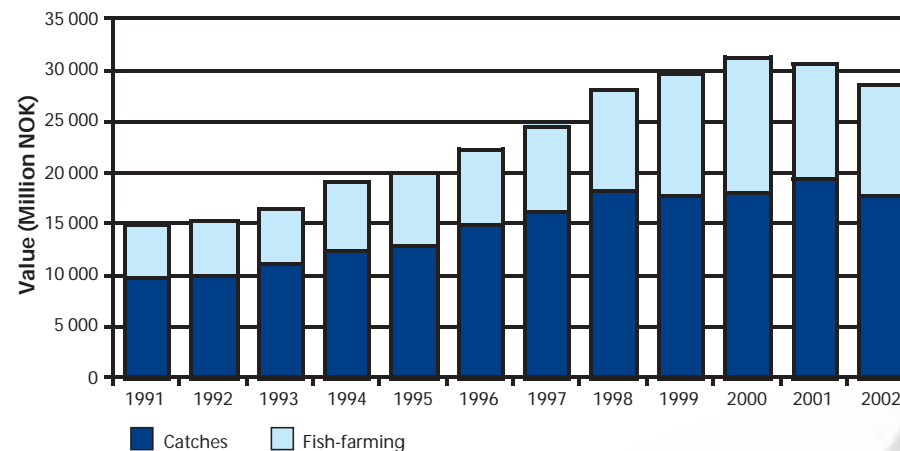
Source: FAO (Food and Agriculture Organization, UN), The Norwegian Seafood Export Council

Largest seafood import nations 2001

Country	USD Mill.	NOK Mill.	Exchange rate
Japan	13 453	120 908	8.98749
USA	10 291	92 490	
Spain	3 724	33 469	
France	3 063	27 529	
Italy	2 722	24 464	
Germany	2 354	21 157	
Great Britain	2 242	20 150	
China	1 806	16 231	
Hong Kong	1 768	15 890	
Denmark	1 737	15 611	

Source: FAO (Food and Agriculture Organization, UN), The Norwegian Seafood Export Council

Norwegian seafood exports 1991-2002. Million NOK



Source: The Norwegian Seafood Export Council

Norwegian seafood exports 1991-2002. Tonnes

Year	Catches	Fish-farming	Total
1991	973 709	138 316	1 112 025
1992	1 103 528	137 519	1 241 047
1993	1 246 649	147 787	1 394 435
1994	1 274 251	179 824	1 454 075
1995	1 421 476	214 791	1 636 267
1996	1 584 092	252 928	1 837 020
1997	1 734 142	283 419	2 017 562
1998	1 632 512	315 579	1 948 091
1999	1 710 949	373 238	2 084 187
2000	1 772 976	370 608	2 143 583
2001	1 650 022	383 980	2 034 002
2002	1 687 447	423 100	2 110 546

Source: The Norwegian Seafood Export Council

Main markets for Norwegian seafood 2002. Billion NOK, tonnes

Country	Value	Quantity
Japan	3.7	251 666
Denmark	2.9	380 960
France	2.2	89 755
Great Britain	2.0	128 647
Russia	1.8	236 684
Portugal	1.7	50 272
Sweden	1.5	59 779
Germany	1.4	72 993
USA	1.3	48 563
Italy	1.1	26 654

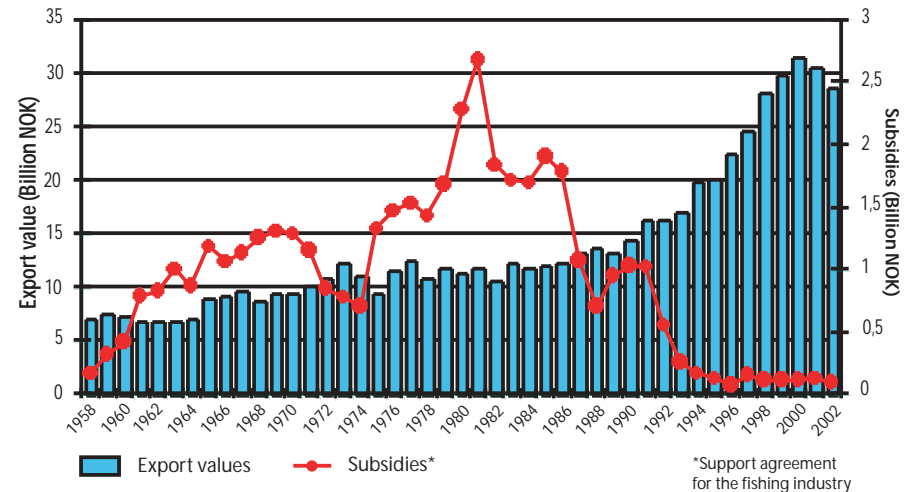
Source: The Norwegian Seafood Export Council

Main suppliers of seafood to Norway 2002. Billion NOK, tonnes

Country	Value	Quantity
Russia	1.28	1 544 439
Denmark	1.02	846 311
Great Britain	0.59	790 571
Iceland	0.50	789 031
Peru	0.26	409 416
USA	0.26	285 952
Faroe Islands	0.24	232 088
Canada	0.18	194 665
Sweden	0.15	164 699
Holland	0.14	56 148

Source: The Norwegian Seafood Export Council

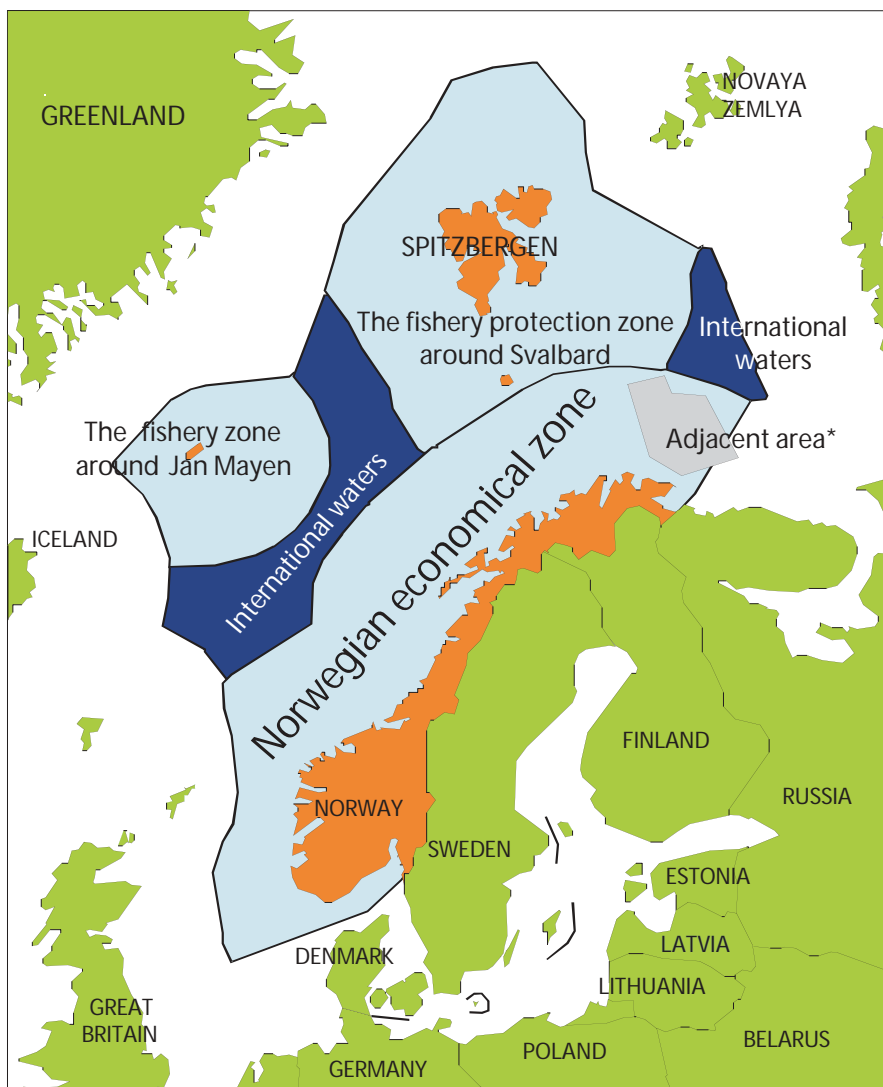
Export values and subsidies in the Norwegian fishing industry



Source: The Norwegian Ministry of Fisheries, Statistics Norway, The Norwegian Seafood Export Council

2. NORWEGIAN FISHERIES AND CATCHES

Norwegian zones



*Adjacent area in the Barents Sea which is covered by a temporary agreement between Norway and Russia.

Research vessels 2002

Vessel	Cruise day	Person cruise days
"G.O. Sars"	249	1 422
"Johan Hjort"	303	1 774
"Michael Sars"	265	1 092
"G.M. Dannevig"	163	551
"Fangst"	135	334
"Dr. Fridtjof Nansen"	302	657
Leased vessels	371	482
Total	1 808	6 446

Source: Institute of Marine Research

Catches brought ashore in Norway 1999-2002. Tonnes

Species	1999	2000	2001	2002
Herring	829 008	799 946	581 161	569 800
Sprat	22 214	6 425	12 465	2 600
Mackerel	161 046	174 225	180 603	184 200
Capelin	91 813	373 986	482 834	531 600
Blue whiting	534 570	553 478	573 686	558 100
Sandeel	238 713	171 927	214 582	202 000
Horse mackerel	46 657	2 084	7 988	36 700
Cod	256 555	219 192	208 767	227 600
Saithe	198 387	169 729	169 490	202 300
Haddock	53 243	45 935	51 642	54 900
Tusk	23 274	21 915	18 777	18 100
Ling	19 761	17 733	14 583	16 100
Redfish	30 856	26 274	28 656	16 300
Greenland halibut	19 704	13 019	15 152	11 500
Prawns	63 538	66 520	65 314	66 600
Mussels	445	597	691	700
Seaweed and seatangle	178 542	192 426	175 210	182 600
Other	40 205	38 000	58 514	28 500
Total	2 808 531	2 893 411	2 860 115	2 910 200

The figures for 2000, 2001 and 2002 are preliminary.

Source: The Directorate of Fisheries

Catches brought ashore in Norway 1999-2002. Value 1000 NOK

Species	1999	2000	2001	2002
Herring	1 202 500	1 435 433	2 243 454	2 027 800
Sprat	32 300	20 725	23 583	11 900
Mackerel	865 529	985 414	1 336 185	1 361 200
Capelin	190 881	368 473	535 185	649 700
Blue whiting	288 870	323 803	400 869	551 500
Sandeel	131 261	104 283	165 623	185 600
Horse mackerel	106 723	4 859	45 410	97 600
Cod	3 324 833	2 930 358	2 903 495	2 863 100
Saithe	1 012 460	739 300	82 226	931 300
Haddock	591 078	533 668	616 593	553 700
Tusk	191 344	178 308	178 351	154 200
Ling	228 231	224 469	234 039	209 500
Redfish	201 066	175 830	201 691	109 600
Greenland halibut	284 852	236 579	260 652	172 900
Prawns	902 867	1 028 998	824 959	791 700
Mussels	8 484	11 101	13 138	12 900
Seaweed and seatangle	28 423	35 800	32 517	33 400
Other	384 243	429 082	577 178	290 900
Total	9 975 951	9 766 483	11 415 148	11 008 500

The figures for 2000, 2001 and 2002 are preliminary.

Source: The Directorate of Fisheries

Number of fishermen 1948-2002

Year	Sole or main occupation	Secondary occupation	Total
1948	68 400	17 100	85 500
1960	45 200	15 700	60 900
1971	30 819	10 562	41 381
1975	25 388	9 874	35 262
1980	25 140	9 649	34 789
1995	17 160	6 493	23 653
1999	15 326	5 948	21 274
2000	14 259	5 835	20 094
2001	13 700	5 267	18 967
2002	13 913	4 735	18 648

Source: The Directorate of Fisheries

Number of fishermen in sole or main occupation 1992-2002. By age

Year	U. 20	20-29	30-39	40-49	50-59	60 and old.	Total
1992	866	5 390	4 104	4 145	2 967	2 293	19 765
1993	779	5 286	4 027	4 115	3 032	1 829	19 068
1994	541	4 053	3 522	3 625	2 942	1 759	16 442
1995	544	4 386	3 735	3 648	3 067	1 780	17 160
1996	465	4 251	3 765	3 627	3 170	1 809	17 087
1997	436	3 896	3 727	3 503	3 242	1 857	16 661
1998	425	3 105	3 395	3 189	3 223	1 804	15 141
1999	458	3 010	3 447	3 180	3 330	1 901	15 326
2000	445	2 587	3 245	3 032	3 273	1 677	14 259
2001	425	2 287	3 165	2 931	3 165	1 727	13 700
2002	385	2 442	3 335	3 007	3 117	1 627	13 913

Source: The Directorate of Fisheries

Registered fishermen in main and secondary occupations 2002. By counties

County	Sole or main occupation	Secondary occupation
Finnmark	1 291	515
Troms	2 016	953
Nordland	3 396	974
Nord-Trøndelag	313	129
Sør-Trøndelag	412	154
Møre og Romsdal	3 311	959
Sogn og Fjordane	859	215
Hordaland	987	217
Rogaland	536	222
Vest-Agder	274	190
Aust-Agder	105	59
Telemark	55	42
Vestfold	80	22
Buskerud	22	3
Akershus	25	8
Oslo	79	6
Østfold	152	67
Total	13 913	4 735
Total number of fishermen	18 648	

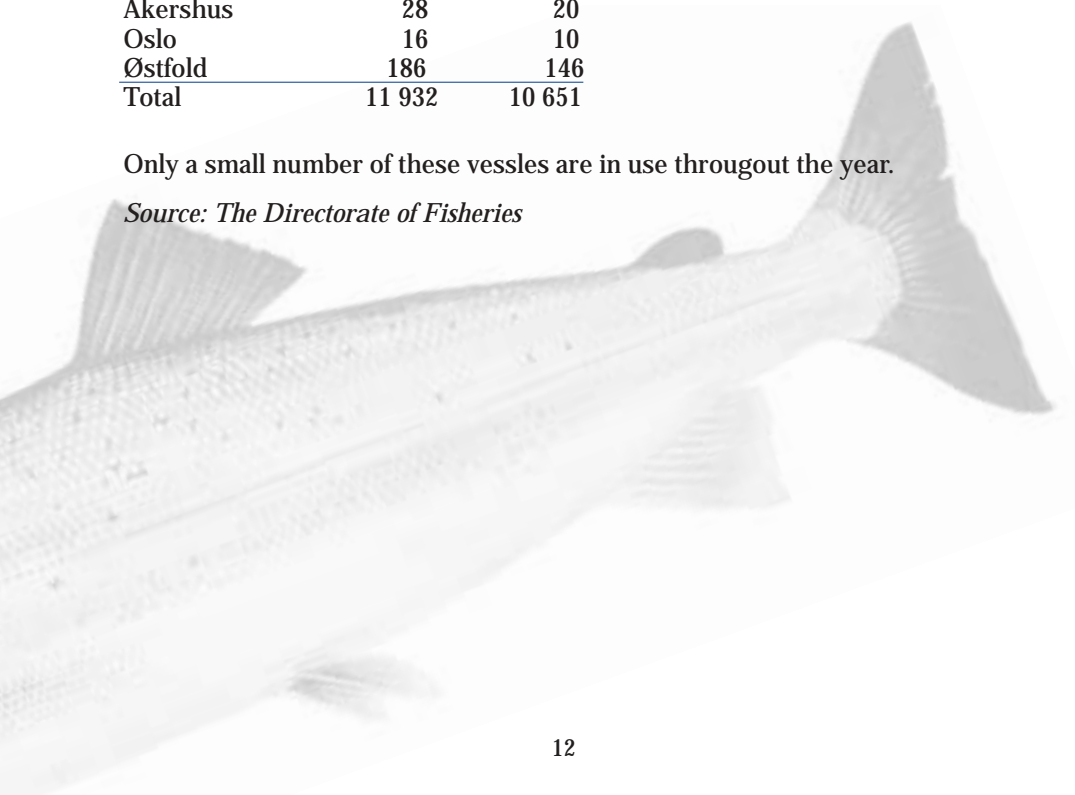
Source: The Directorate of Fisheries

Number of vessels in Norway 2001-2002

Vessel	2001	2002
Covered vessels	8 173	7 804
Open vessels	3 759	2 847
Number of vessels by counties		
Finnmark	1 586	1 621
Troms	1 982	1 844
Nordland	3 192	2 729
Nord-Trøndelag	446	332
Sør-Trøndelag	375	366
Møre og Romsdal	1 391	1 173
Sogn og Fjordane	650	557
Hordaland	743	681
Rogaland	491	488
Vest-Agder	435	355
Aust-Agder	176	144
Telemark	94	85
Vestfold	132	93
Buskerud	9	7
Akershus	28	20
Oslo	16	10
Østfold	186	146
Total	11 932	10 651

Only a small number of these vessels are in use throughout the year.

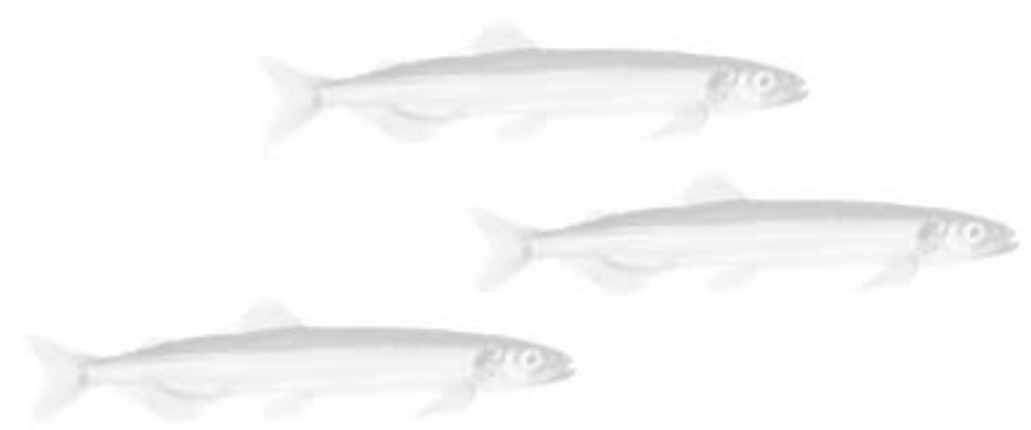
Source: The Directorate of Fisheries



Fulltime fishing vessels 2002. By length and county

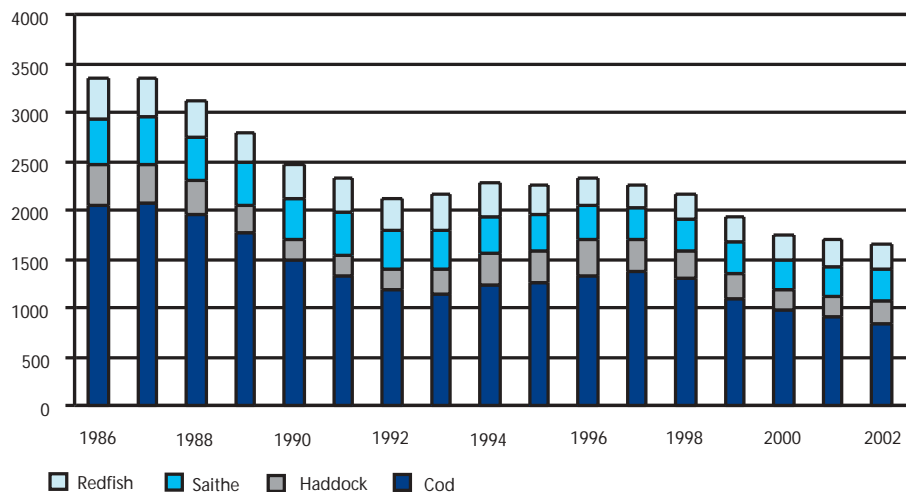
County	8 - 12,9 m	13-20,9 m	21-30,9 m	31-40,9 m	41 m and over	Total
Finnmark	210	88	21	3	19	131
Troms	184	94	27	6	19	146
Nordland	390	233	66	3	28	330
Trøndelag	75	29	7	3	4	43
Møre og Romsdal	109	42	27	37	65	171
Sogn og Fjordane	29	19	24	11	8	62
Hordaland	31	9	9	9	39	66
Rogaland	32	26	10	9	6	51
Agder/Østlandet	67	58	16	5	0	79
Total	1 127	598	207	86	188	1 079

Source: The Directorate of Fisheries



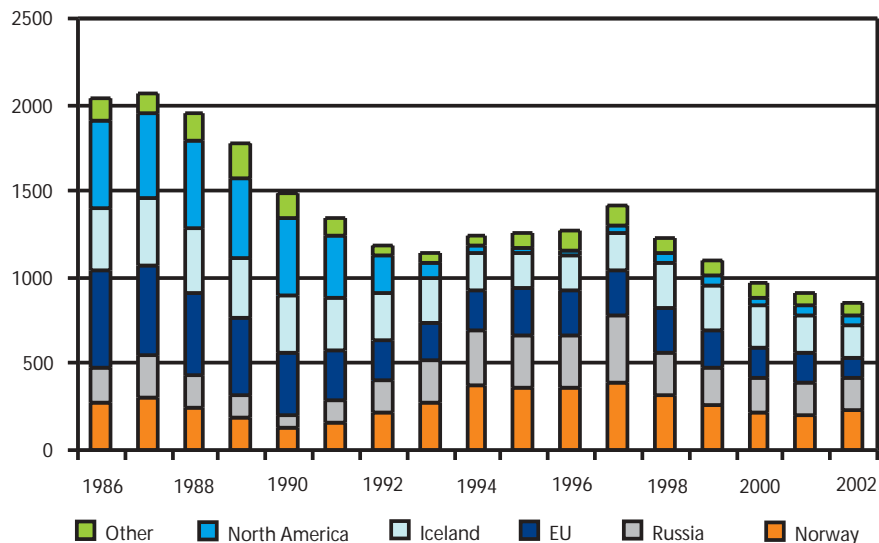
3. TYPE OF FISH – CATCHES AND EXPORT

Catches of whitefish in the North Atlantic 1986-2002. 1000 tonnes



Source: The Norwegian Seafood Export Council, FAO, Hagstofa, Eurodat, NMFS

Catches of cod in the North Atlantic 1986-2002. 1000 tonnes



Source: The Norwegian Seafood Export Council, FAO, Hagstofa, NMFS, DFO, Eurostat

Norwegian whitefish exports 2002. Billion NOK

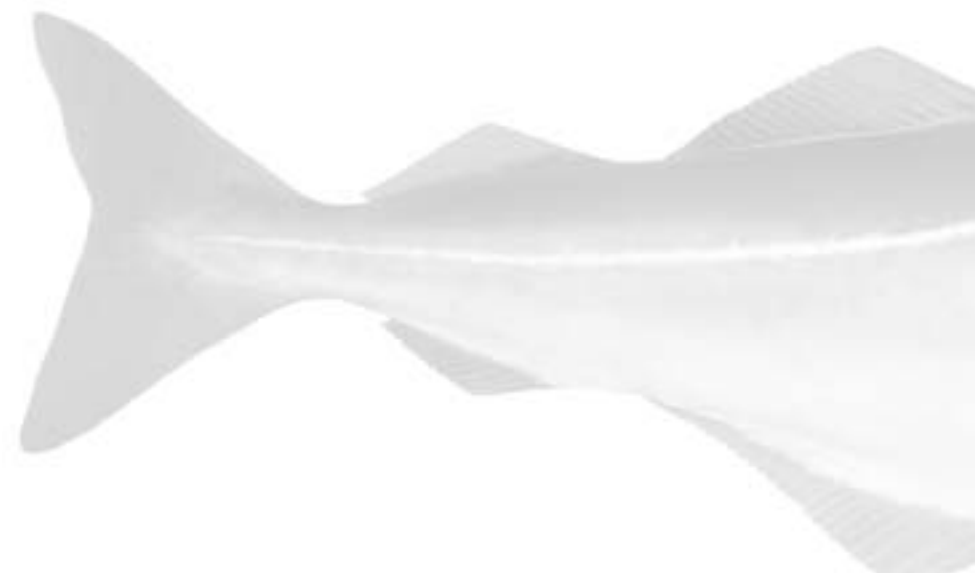
Species	Value
Cod	5.12
Saithe	1.31
Haddock	0.76
Tusk	0.28
Ling	0.20
Redfish	0.15
Other	0.14
Total	7.96

Source: The Norwegian Seafood Export Council

Norwegian cod exports 2002. Billion NOK

Product	Value
Clipfish	1.61
Frozen fillet	1.20
Salted	0.83
Stockfish	0.49
Fresh	0.44
Frozen	0.40
Other	0.16

Source: The Norwegian Seafood Export Council

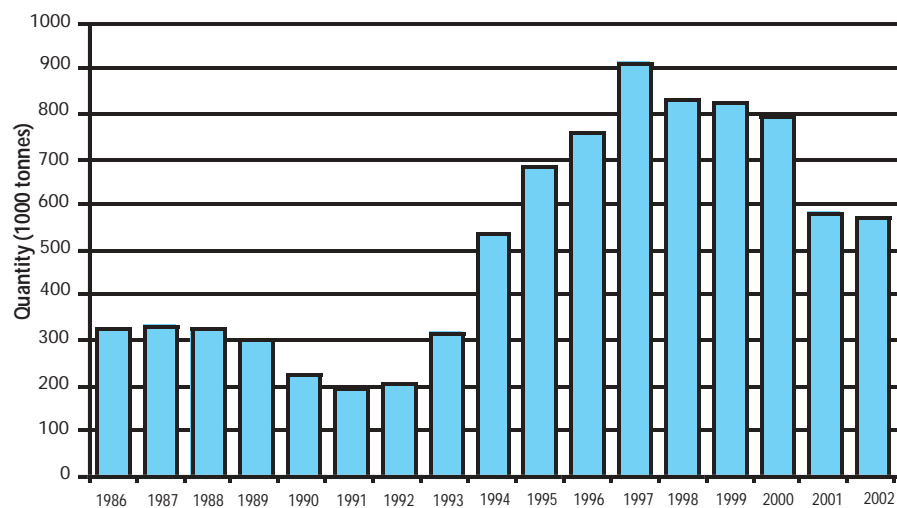


Main markets for cod 2002. Million NOK, tonnes

Product	Main markets	Value (Mill. NOK)	Quantity (tonnes)	Share of total value	Share of total quantity
Clipfish	Portugal	991	22 150	62%	67%
	Brazil	269	4 281	17%	13%
Frozen filet	Great Brit.	482	12 081	40%	43%
	USA	230	4 643	19%	17%
Salted	Portugal	476	13 983	58%	57%
	Spain	178	5 591	22%	23%
Stockfish	Italy	386	3 023	88%	84%
	Croatia	19	187	4%	5%
Frozen	Portugal	196	10 605	40%	39%
	Canada	77	4 345	16%	16%
Fresh	Denmark	250	11 961	62%	65%
	France	71	3 073	18%	17%

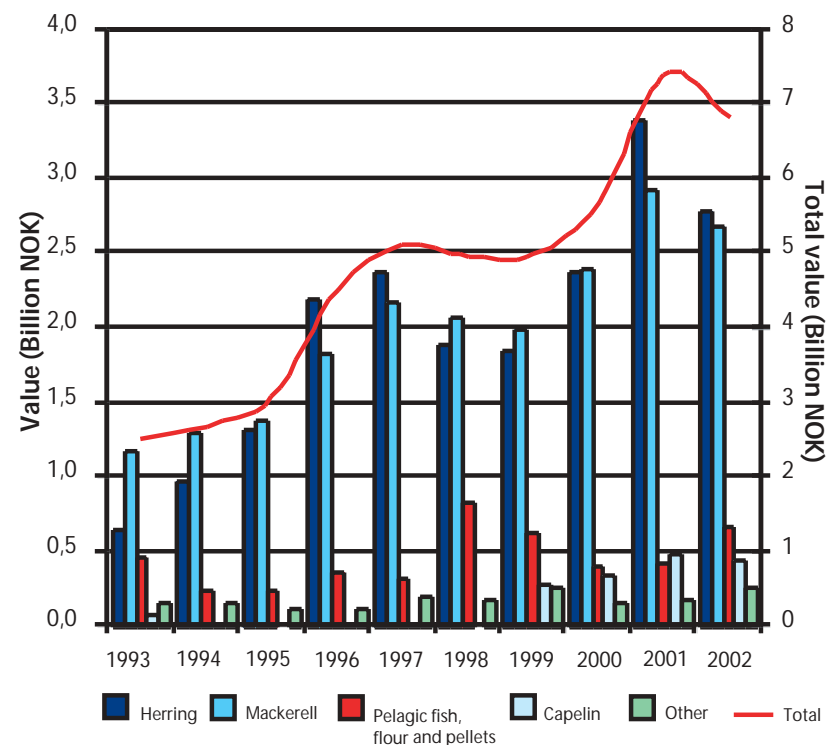
Source: The Directorate of Fisheries

Norwegian herring catches 1986-2002. 1000 tonn



Source: The Directorate of Fisheries

Norwegian exports of pelagic fish 1993-2002. Billion NOK



Source: The Norwegian Seafood Export Council

Main markets for herring 2002. Million NOK

Country	Value
Russia	901
Ukraine	466
Poland	273
Denmark	221
Germany	152
Sweden	130
Holland	126
USA	67
Belarus	66
Lithuania	58

Source: The Norwegian Seafood Export Council

Main markets for Norwegian mackerel 2002. Million NOK

Country	Value
Japan	1 289
China	326
Ukraine	210
Russia	186
Poland	179
Rep. of Korea	88
Thailand	57
USA	49
Great Britain	45
Holland	44

Source: The Norwegian Seafood Export Council

Norwegian prawn exports 2002. Million NOK

Product	Value
Frozen peeled	645
Frozen raw	73
Peeled in brine	74
Other	175

Source: The Norwegian Seafood Export Council

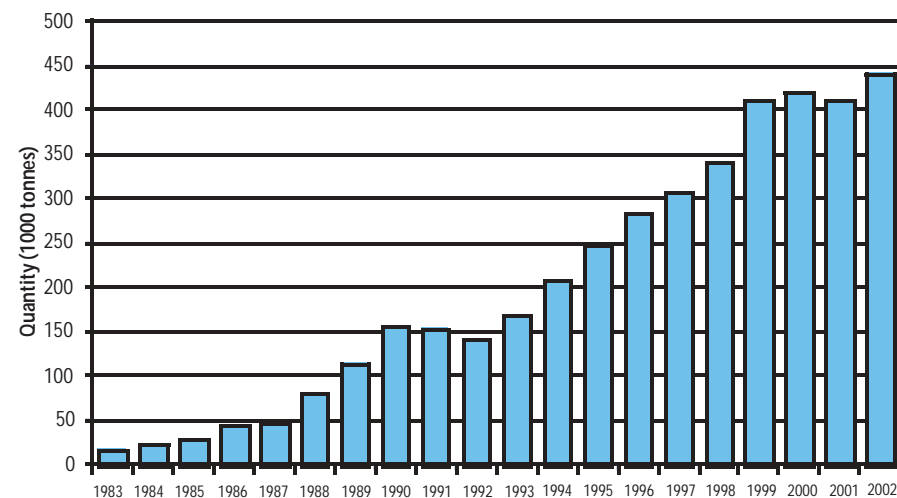
Main markets for Norwegian prawns 2002. Million NOK

Country	Value
Sweden	302
Great Britain	272
Denmark	124
Finland	82
Iceland	74
Japan	27
France	21
Switzerland	20
Germany	9
Italy	6

Source: The Norwegian Seafood Export Council

4. AQUACULTURE IN NORWAY

Norwegian production of salmon 1983-2002. 1000 tonnes

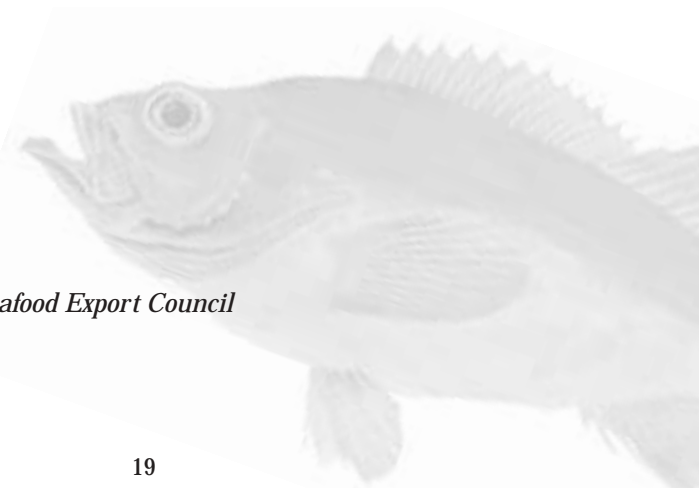


Source: The Norwegian Seafood Export Council, The Directorate of Fisheries, Kontali analysis

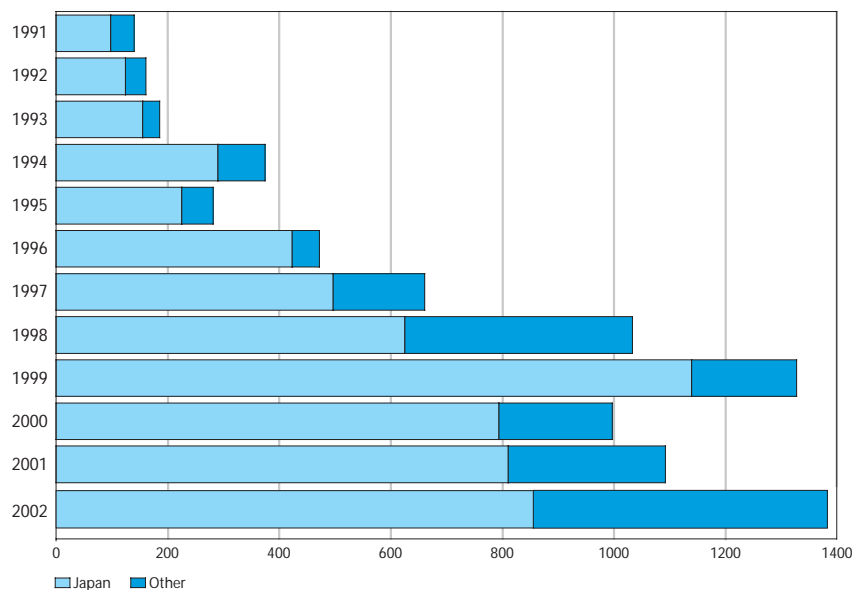
Main markets for Norwegian salmon 2002. 1000 NOK

Country	Value
France	1 517 493
Denmark	1 422 051
Japan	1 050 173
Germany	833 084
Sweden	485 349
Spain	474 249
USA	448 831
Russia	421 332
Holland	359 086
Italy	351 969

Source: The Norwegian Seafood Export Council



Norwegian trout exports 1991-2002. Million NOK



Source: The Norwegian Seafood Export Council

Licences for salmon and trout per 31.12.2002. By counties

County	Smolt		Farmed fish		Brood stock	
	Licences	1000 pcs	Licences	Volume m ³	Licences	Volume m ³
Finnmark	5	8 300	71	852 000	1	12 000
Troms	21	12 550	72	864 000	1	12 000
Nordland	37	35 780	129	1 579 000	2	24 000
Nord-Trøndelag	18	15 605	56	661 500	1	3 000
Sør-Trøndelag	24	13 514	77	936 600	2	24 000
Møre og Romsdal	43	19 973	95	1 142 000	6	43 000
Sogn og Fjordane	31	19 130	72	870 000	2	15 000
Hordaland	70	53 946	140	1 810 300	6	41 000
Rogaland	26	20 220	55	638 740	3	13 050
Vest-Agder	3	1 250	16	192 000		
Aust-Agder	1	12 000				
Telemark	2	503	2	6 000		
Vestfold						
Østfold						
Oppland	3	615	30	40 765	2	
Hedmark	11	356	30	60 908	1	
Oslo						
Akershus	1	100				
Buskerud	1	400	1	3 000		
Total	295	202 142	848	9 668 913	27	187 050

Source: The Directorate of Fisheries

Licences for other species¹⁾ and shellfish 31.12.2002

County	Other species	Shellfish
Finnmark	27	50
Troms	26	65
Nordland	198	282
Nord-Trøndelag	16	46
Sør-Trøndelag	17	66
Møre og Romsdal	53	37
Sogn og Fjordane	42	74
Hordaland	98	106
Rogaland	53	77
Vest-Agder	5	12
Aust-Agder	3	20
Telemark	1	13
Vestfold	2	1
Østfold		20
Oppland		
Hedmark	4	
Oslo		
Akershus		1
Buskerud		
Cencus ²⁾	32	
Total	545	870

¹⁾Other species than salmon and trout.

²⁾Licences reserved for fishermen. Max 1000 m² per licence, for storage of caught fish over a short period of time.

Source: The Directorate of Fisheries

Licences issued, by species 2002

Species	Number of licences
Perch	2
Anglerfish	1
Spotted wolffish	2
Atlantic wolffish	2
Seabass	3
Haddock	17
Atlantic halibut	178
Wrasse	1
Hake	7
Mackerel	4
Marine*	28
Turbot	26
Lump fish	1
Goldbutt	5
Arctic Char	47
Saithe	16
Wolffish	37
Cod	373
Sole	3
Eel	25
Total	778

*Licences that includes several species.

Source: The Directorate of Fisheries

Sales of other farmed species 1994-2001

Year	Fish			Mussels		
	Cod	Arctic char	Halibut	Oysters	Blue mussel	Great scallop
1994	569	262	63	1 085	542	14
1995	284	273	134	325	388	206
1996	191	221	138	526	184	92
1997	304	350	113	147	502	159
1998	199	190	290	510	309	169
1999	157	498	451	650	662	335
2000	169	129	548	134	851	188
2001	846	317	377	22	920	111

Quantities in tonnes for fish and blue mussel. Quantities for other shellfish per 1000.

Source: The Directorate of Fisheries

Employment in production of salmon and trout 1998-2001

Year	Farmed fish, brood stock		Hatcheries- and smolt		Total	
	Individuals	Hours	Individuals	Hours	Individuals	Hours
1998	2 528	3 555 869	1 030	1 320 442	3 558	4 876 311
1999	2 515	3 735 367	1 072	1 375 759	3 587	5 111 126
2000	2 559	3 668 649	1 041	1 326 290	3 600	4 994 939
2001	2 639	4 691 965	1 042	1 351 728	3 681	6 043 693

One man-labour year is calculated to about 1.800 hours.

Source: The Directorate of Fisheries

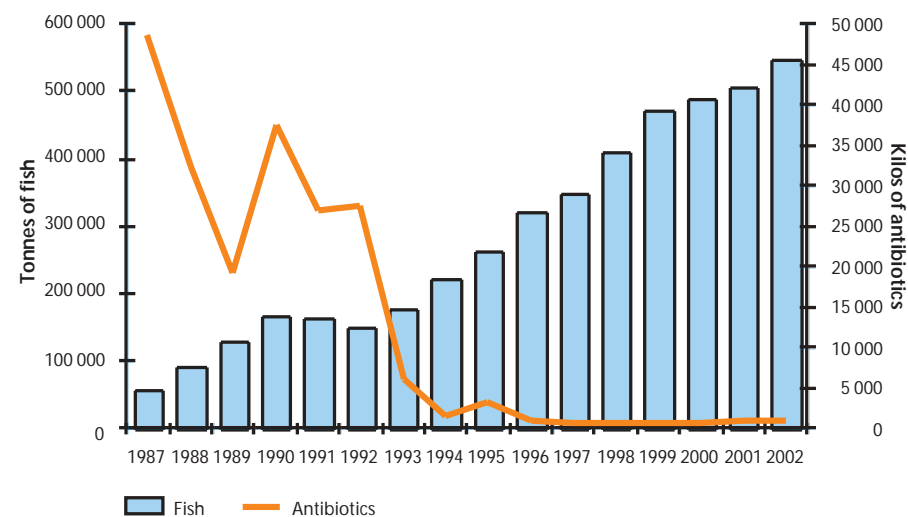
Employment in production of other species¹⁾ and shellfish 1999-2001

Year	Other species				Shellfish			
	Individuals		Hours		Individuals		Hours	
	Men	Women	Men	Women	Men	Women	Men	Women
1999	260	45	136 200	25 837	382	72	79 617	19 263
2000	291	45	178 907	38 696	284	71	83 497	26 636
2001	282	37	157 868	25 598	421	90	126 285	31 168

¹⁾Other species than salmon and trout.

Source: The Directorate of Fisheries

Antibiotics used in Norwegian fishfarming of trout and salmon



Source: The Norwegian Medicinal Depot, The Directorate of Fisheries

Escaped fish (salmon and trout) 2002. Per county, quantity 1000s

County	Total
Finnmark	101
Troms	56
Nordland	214
Trøndelag	63
Møre og Romsdal	19
Sogn og Fjordane	57
Hordaland	76
Rogaland	30
Agder/Østlandet	0
Total	614

Source: The Directorate of Fisheries

Norwegian producers of fish feed 1999-2002. Tonnes

	1999	2000	2001	2002
FHL fiskefôr	589 742	696 180	687 783	715 550
Other	16 000	16 000	16 000	20 000 (ca)
Import	3 736	3 819	6 260	17 336
Total	609 478	715 999	710 043	752 886

Source: FHL fishfeed
(BioMar AS, Ewos AS og Skretting AS)

5. SEALS AND WHALES

Norwegian seal-hunt 1980-2002

Year	The West Ice		The Eastice	Total
	Hooded seal	Harp seal	Harp seal	
1980	9 768	9 983	15 202	34 953
1985	338	557	19 007	19 902
1990	423	5 508	9 522	15 453
1995	1 301	8 206	6 842	16 349
2001	3 820	2 992	5 200	12 012
2002	7 116	1 227	2 348	10 691

Source: The Directorate of Fisheries

Norwegian minke whaling 1995 - 2002

Year	Vessels	Number of animals	Quantity (tonnes)	Value (Mill. NOK)
1995	33	217	456	13.0
1996	31	388	680	15.3
1997	31	503	779	22.0
1998	34	625	1 144	27.3
1999	34	589	995	24.2
2000	33	487	809	21.6
2001	33	552	1 141	27.0
2002	34	671	974	27.6

Source: The Directorate of Fisheries

