

Facts about Fisheries and Aquaculture 2008



NORWEGIAN MINISTRY OF
FISHERIES AND COASTAL AFFAIRS



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Norwegian seafood production – consumption and exports

The Norwegian fishing and aquaculture industry currently supplies seafood to consumers in more than 150 countries worldwide. This is healthy food, produced in a clean ocean environment. The fishing and aquaculture industry is one of Norway's foremost export industries and is vital for settlement and activities along the Norwegian coast. It provides employment in fishing, aquaculture and the fishing industry, and has widespread effects on trade and industry as well as on research and development.

Norway controls some of the world's most productive marine environments, with excellent conditions for conducting environmentally-friendly aquaculture. Aquaculture production could also be increased significantly, and on the basis of many more species than those farmed today.

Norway places great emphasis on gaining knowledge of fish resources, the ocean environment and how the interplay between species functions. Simultaneously there is comprehensive regulation of fishing resources to ensure a sustainable management.

Consumers must have confidence in Norwegian seafood. Food safety throughout the entire production chain is a primary focus, and the levels of foreign substances are documented. The consumer must be able to know with certainty that Norwegian seafood is safe and healthy.

Norwegian consumption of seafood 2001-2007

per person, kilos

	2001	2003	2005	2007*
Purchased	17,9	17,8	17,6	17,5
Caught by consumer/gift	2,5	1,8	1,6	1,3
Institutional household **	3,7	3,5	3,6	3,7
Total consumption	24,0	23,2	22,8	22,5

* The figures are preliminary

*GfK-Norge/Sissel Flesland Markedsinformasjoner AS,
the Norwegian Seafood Export Council*

** Hotels, restaurants etc.

Norwegian consumption of seafood purchased 2001-2007

per person, kilos

Species	2001	2002	2003	2004	2005	2006	2007
Cod	2,80	2,62	2,64	2,73	2,46	2,59	2,63
Atlantic Salmon	1,31	1,76	1,67	1,71	1,79	1,93	2,06
Shrimp	1,85	2,00	1,89	2,13	2,23	2,20	2,00
Saithe	1,48	1,41	1,18	1,30	1,50	1,23	1,20
Mackerel	1,04	1,04	1,02	1,10	1,09	1,14	1,11
Herring	1,25	1,32	1,14	1,18	1,19	1,11	1,03
Rainbow Trout	0,44	0,75	0,76	0,71	0,71	0,68	0,76

GfK-Norge/the Norwegian Seafood Export Council

Seafood production 2006

tonnes

	Catches	Fish-farming	Total
Worldwide	92 007 152	51 671 1101	143 678 253
Norway	2 256 390	708 780	2 965 170

Exclusive of aquatic plants

FAO, the Norwegian Seafood Export Council

Seafood exports 2006

tonnes, 1000 USD

	Quantity	Value
Worldwide	31 322 077	86 370 655
Norway	1 868 625	5 530 335

FAO, the Norwegian Seafood Export Council

Largest seafood production nations – catches and fish-farming 2006

mill tonnes

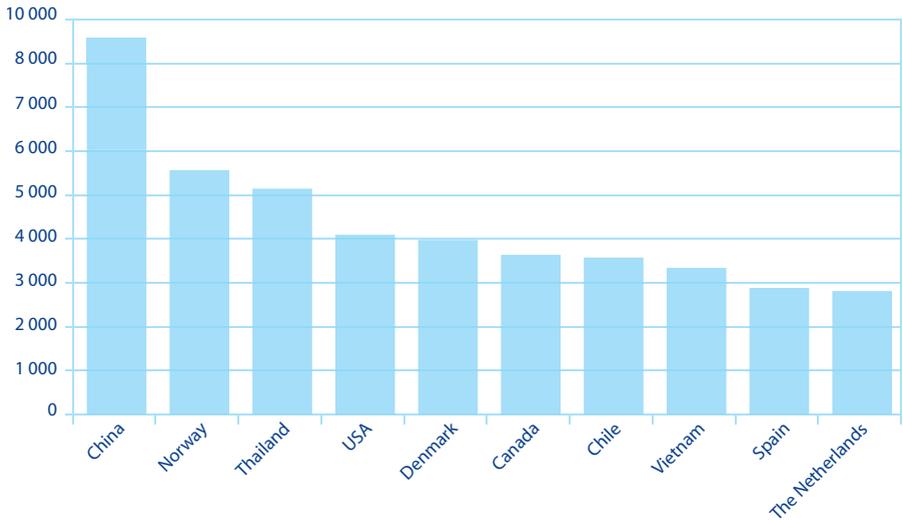
Country	Catches	Fish-farming	Total
China	17 092 146	34 429 157	51 521 303
Peru	7 017 491	28 393	7 045 884
India	3 855 467	3 123 135	6 978 602
Indonesia	4 759 320	1 309 247	6 068 567
USA	4 860 011	465 061	5 325 072
Chile	4 168 461	802 410	4 970 871
Japan	4 188 611	733 891	4 922 502
Thailand	2 776 295	1 385 801	4 162 096
Vietnam	1 959 900	1 657 727	3 617 627
The Russian Federation	3 284 147	105 525	3 389 672
Norway	2 255 513	708 780	2 964 293
Philippines	2 321 722	623 369	2 945 091
Myanmar (Burma)	2 006 790	574 990	2 581 780
Bangladesh	1 436 496	892 049	2 328 545
South Korea	1 749 929	513 568	2 263 497
Malaysia	1 300 415	168 317	1 468 732
Mexico	1 300 183	158 642	1 458 825
Iceland	1 327 063	8 241	1 335 304

Exclusive of aquatic plants

FAO, the Norwegian Seafood Export Council

Largest seafood export nations 2006

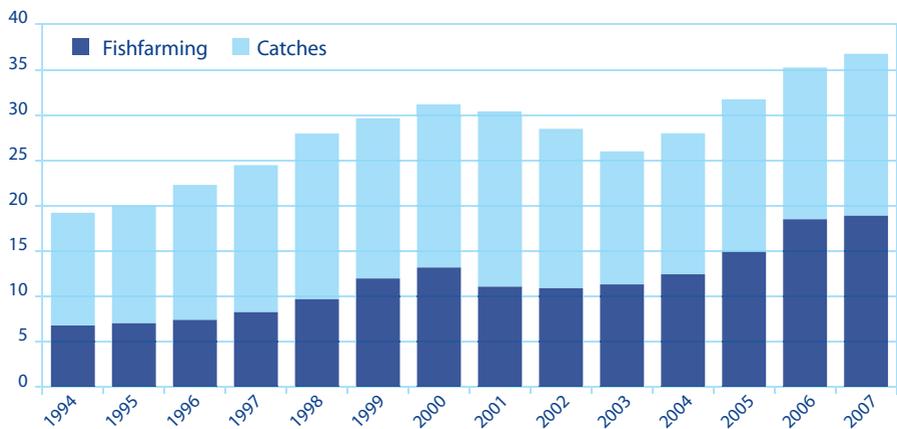
mill USD



FAO, the Norwegian Seafood Export Council

Norwegian seafood exports 1994-2007

1000 mill NOK



Statistics Norway, the Norwegian Seafood Export Council

Main export markets for Norwegian seafood 2007

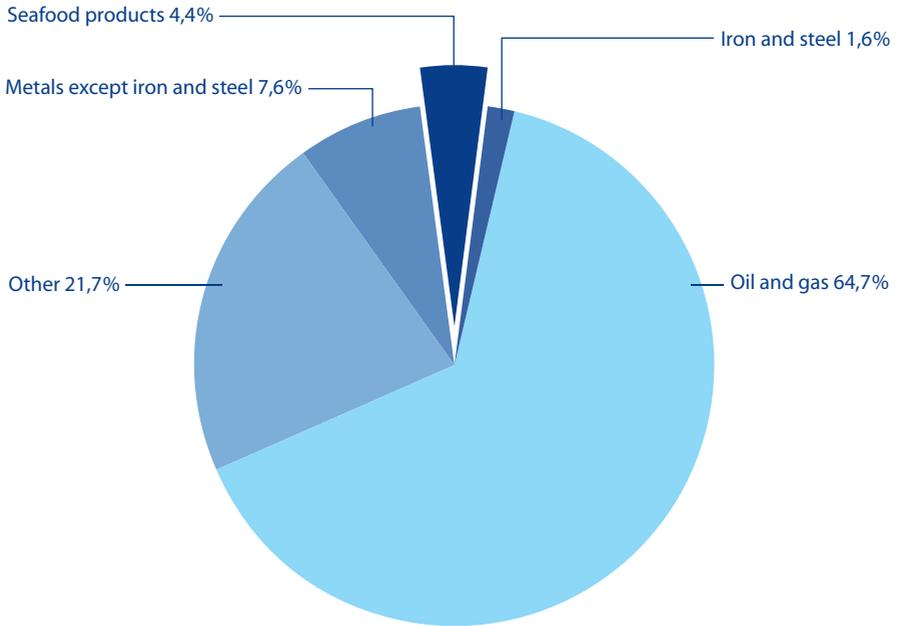
1000 NOK, tonnes

Country	Value	Quantity
France	3 767 930	122 571
The Russian Federation	3 756 120	409 845
Denmark	3 486 885	338 058
Great Britain	2 595 276	114 797
Portugal	2 266 960	47 094
Poland	1 846 093	98 147
Japan	1 727 047	102 309
Sweden	1 679 245	60 338
Spain	1 443 543	47 168
The Netherlands	1 441 868	85 839
Italy	1 320 042	28 856
Germany	1 204 938	55 958
Ukraine	1 144 988	151 778
Brazil	1 129 053	32 408
China	1 050 168	74 697
USA	987 529	28 350
Finland	755 955	44 920
Hong Kong	301 271	11 657
Belgium	296 601	9 369
Turkey	295 118	29 346

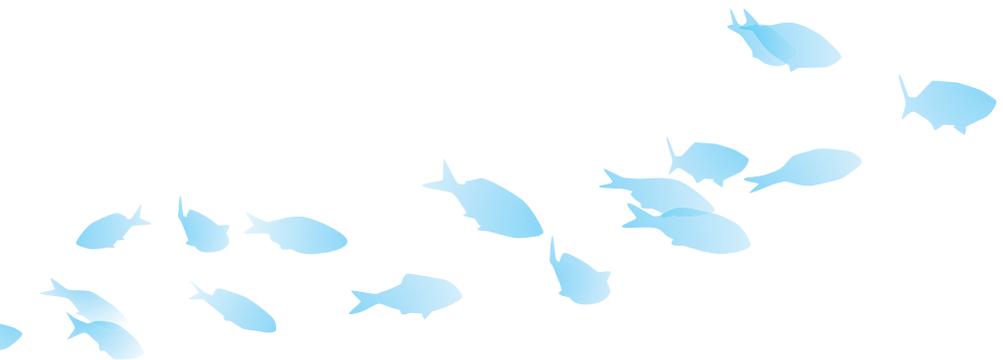
Statistics Norway, the Norwegian Seafood Export Council



Fisheries and aquaculture's share of Norwegian exports 2007



Statistics Norway, the Norwegian Seafood Export Council



Fisheries and catches

Fishing has always been the basis for settlement and employment along the Norwegian coast. The fisherman of today is far more efficient than a few decades ago. Technological facilities and improved fishing methods and vessels mean that today's fishermen catch much larger quantities per man. Strict regulation with set quotas and control mechanisms is therefore necessary for sustainable development that will ensure that future generations can also harvest the wealth of the sea.

Development has moved in the direction of fewer and more efficient fishing boats. At the same time, Norway has a composite fishing fleet with respect to the size and type of fishing equipment – ocean fishing vessels and a large number of larger and smaller coastal vessels. The quality of the products and the markets where these are sold are emphasised concerns throughout the entire chain, from the moment the fish is caught at sea to when it reaches consumers all over the world.

Sustainable resource management is fundamental to the Norwegian fishing policy. Simultaneously, fisheries and fishing will help to safeguard settlements and create new activity along the coast.

Number of fishermen 1940-2007

Year	Sole or main occupatin	Secondary occupation	Total
1940	80 387	41 574	121 961
1950	68 149	30 175	98 324
1960	49 720	20 655	70 375
1970	31 884	11 134	43 018
1980	25 140	9 649	34 789
1990	20 475	7 043	27 517
1995	17 160	6 491	23 651
2000	14 264	5 811	20 075
2001	13 676	5 221	18 896
2002	13 844	4 651	18 495
2003	13 177	3 966	17 143
2004	12 553	2 916	15 469
2005	11 635	2 933	14 568
2006	10 889	2 864	13 753
2007	10 657	2 679	13 336

The Directorate of Fisheries per 12.02.08

Fishing vessels operated all-year-round 2007

by county, length

County	8-9,9 m	10-14,9 m	15-20,9 m	21-27,9 m	28 m and over	Total
Finnmark	48	162	20	15	15	260
Troms	48	125	27	16	11	227
Nordland	105	291	75	48	25	544
Nord- og Sør-Trøndelag	29	75	4	5	3	116
Møre og Romsdal	25	88	6	21	70	210
Sogn og Fjordane	10	24	4	17	19	74
Hordaland	5	24	1	6	43	79
Rogaland	7	32	9	11	17	76
Other counties	16	79	16	11	1	123
Total	293	900	162	150	204	1709

The Directorate of Fisheries

Number of fishermen 2007

by county

County	Sum	Sole or main occupation	Secondary occupation
Finnmark	1 284	996	288
Troms	2 119	1553	566
Nordland	3 185	2653	532
Nord-Trøndelag	318	234	84
Sør-Trøndelag	509	382	127
Møre og Romsdal	2 724	2 341	383
Sogn og Fjordane	787	613	174
Hordaland	984	861	123
Rogaland	566	417	149
Vest-Agder	334	213	121
Aust-Agder	120	87	33
Telemark	67	46	21
Vestfold	83	61	22
Buskerud	11	9	2
Oppland	11	9	2
Hedmark	16	16	-
Akershus	23	20	3
Oslo	44	35	9
Østfold	151	111	40
Total	13 336	10 657	2 679

The Directorate of Fisheries

Registered vessels 2001-2007

by county

County	2001	2002	2003	2004	2005	2006	2007
Finnmark	1 586	1 621	1 368	1 156	1 106	1 048	1 017
Troms	1 982	1 845	1 706	1 391	1 301	1 239	1 200
Nordland	3 191	2 730	2 529	2 128	2 011	1 885	1 792
Nord-Trøndelag	449	335	324	216	199	198	196
Sør-Trøndelag	374	365	348	298	293	307	307
Møre og Romsdal	1 389	1 171	1 127	949	883	812	769
Sogn og Fjordane	648	553	506	401	363	335	315
Hordaland	742	680	675	543	526	503	493
Rogaland	492	489	492	426	398	375	352
Vest-Agder	432	351	343	274	251	236	241
Aust-Agder	174	142	141	118	110	103	102
Telemark	92	83	86	75	75	62	60
Vestfold	132	93	91	69	64	59	60
Buskerud	9	7	8	4	5	5	4
Oppland	-	-	-	-	-	-	1
Hedmark	-	-	-	-	-	-	1
Akershus	28	20	21	16	13	12	12
Oslo	16	10	9	5	3	2	6
Østfold	186	146	141	120	121	118	115
Total	11 922	10 641	9 915	8 189	7 722	7 301	7 041

The Directorate of Fisheries

The Norwegian Economic Zone



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

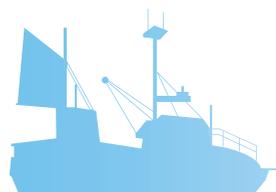
Catches brought ashore by Norwegian fishing vessels 2004-2007

live weight tonnes

Species	2004	2005	2006	2007
Herring	616 221	748 161	710 586	884 738
Sprat	1 526	1 957	11 470	12 933
Mackerel	157 432	119 695	122 011	131 692
Capelin	49 054	67 339	2 047	41 098
Blue whiting	958 768	738 599	642 452	539 588
Sandeel	56 166	17 661	20 151	55 856
Horse mackerel	10 748	25 113	27 224	5 425
Cod	230 746	225 775	221 113	217 473
Saithe	211 267	230 567	256 856	224 502
Haddock	64 932	63 337	71 412	73 060
Tusk	11 897	11 862	14 347	15 284
Ling	14 554	15 133	17 195	19 044
Redfish	16 751	12 960	17 345	13 662
Greenland halibut	16 948	15 632	13 336	10 136
Prawns	58 961	48 311	38 709	37 272
Mussels	774	727	808	876
Seaweed and seatangle	148 322	153 906	145 429	134 671
Other	47 269	49 108	69 310	102 011
Total	2 672 336	2 545 842	2 401 990	2 519 321

Statistics are compiled on information from landings and contract notes sent from Fishermen's Sales Organisations to the Directorate of Fisheries per 26.05.08.

The Directorate of Fisheries



Catches brought ashore by Norwegian fishing vessels 2004-2007

1000 NOK

Species	2004	2005	2006	2007
Herring	2 015 242	2 867 308	2 245 883	2 224 843
Sprat	6 749	9 280	22 014	30 942
Mackerel	1 328 998	1 495 152	975 894	979 458
Capelin	46 602	93 043	4 050	95 091
Blue whiting	763 893	531 798	773 253	847 982
Sandeel	49 966	14 266	27 091	85 396
Horse mackerel	40 258	111 363	115 341	19 006
Cod	2 784 202	2 984 547	3 305 217	3 683 829
Saithe	837 649	1 101 549	1 395 019	1 259 504
Haddock	455 070	524 945	775 560	837 575
Tusk	82 902	88 401	122 280	130 329
Ling	175 984	178 860	229 596	245 811
Redfish	115 012	124 647	165 213	99 986
Greenland halibut	324 609	321 568	282 249	177 055
Prawns	838 167	679 314	617 240	653 417
Mussels	14 398	14 436	16 655	18 100
Seaweed and seatangle	27 885	29 869	28 507	26 678
Other	515 219	517 358	608 389	632 982
Total	10 422 804	11 687 704	11 709 451	12 047 984

Statistics are compiled on information from landings and contract notes sent from Fishermen's Sales Organisations to the Directorate of Fisheries per 26.05.08.

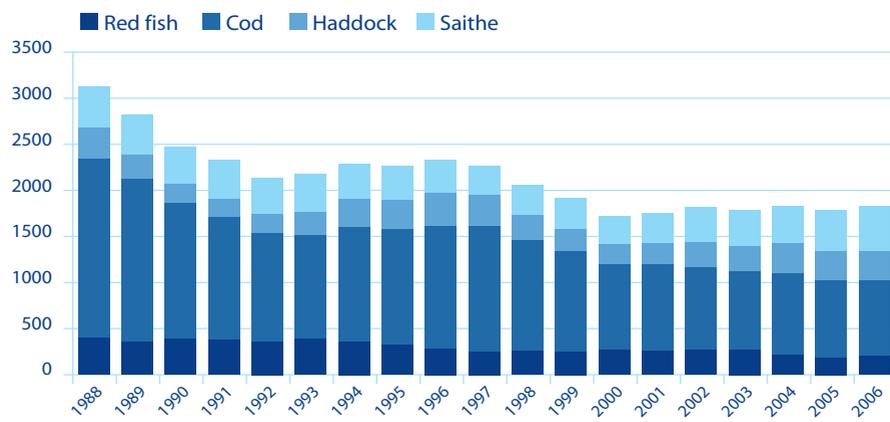
The Directorate of Fisheries



White fish

Catches of whitefish in the North Atlantic 1988-2006

1000 tonnes



FAO, The Directorate of Fisheries

Norwegian exports of whitefish 2007

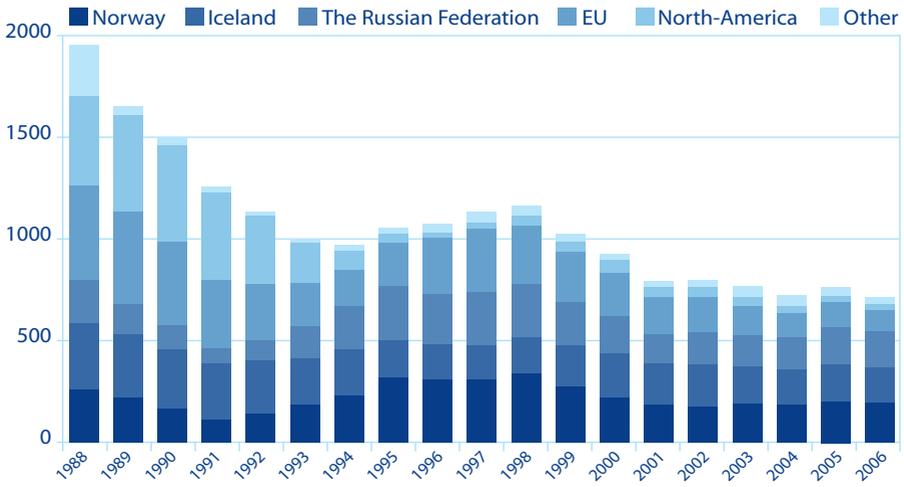
1000 NOK, tonnes

Species	Value	Quantity
Tusk	162 731	4 588
Haddock	1 022 488	45 485
Saithe	1 763 676	112 383
Cod	6 208 136	122 600
Redfish	146 875	10 023
Other	1 061 730	29 937
Total	10 365 636	325 016

Statistics Norway, the Norwegian Seafood Export Council

Catches of cod in the North-Atlantic 1988-2006

1000 tonnes



FAO, the Norwegian Seafood Export Council

Norway's main export markets for cod 2007

1000 NOK, tonnes

Country	Value	Quantity	Country	Value	Quantity
Portugal	2 109 317	40 837	Greece	100 947	2 417
Italy	613 805	5 962	USA	85 701	1 420
France	525 070	8 566	Belgium	78 884	1 600
Brazil	519 405	8 141	Germany	72 413	1 424
Great Britain	512 594	10 609	Switzerland	56 648	915
Denmark	465 551	12 605	Poland	51 301	1 942
Spain	379 100	8 581	Nigeria	41 169	1 374
The Netherlands	163 038	5 071	Mexico	24 751	275
Sweden	151 089	3 372	Kroatia	23 941	176
China	113 234	4 498	Venezuela	15 821	268

Statistics Norway, The Directorate of Fisheries

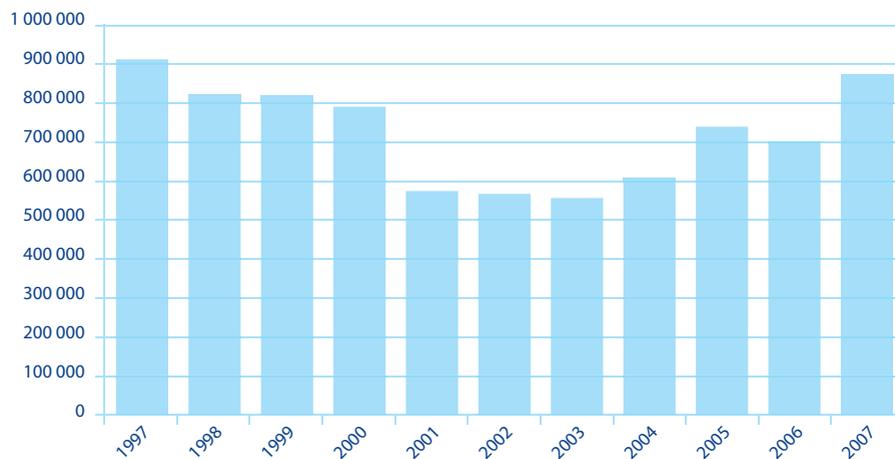
Pelagic fish

Norwegian exports of pelagic fish for consumption 2007 1000 NOK, tonnes

Species	Value	Quantity
Herring	3 356 239	659 147
Mackerel	1 815 646	174 997
Capelin	106 776	23 725
Horse mackerel	79 337	12 335
Blue whiting	515	48
Anchovy	191	2
Blue whiting	30	3
Other pelagic other than tuna	14 375	2 285
Total	5 373 109	872 542

Statistics Norway, the Norwegian Seafood Export Council

Norwegian catches of herring 1997-2007 live weight tonnes



Statistics are compiled on information from landings and contract notes sent from Fishermen's Sales Organisations to the Directorate of Fisheries per 26.05.08.

The Directorate of Fisheries

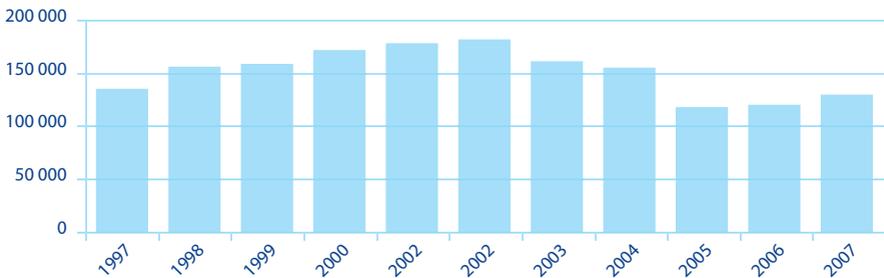
Norway's main export markets for herring 2007

1000 NOK, tonnes

Country	Value	Quantity	Country	Value	Quantity
The Russian Federation	1 396 686	279 889	Kazakhstan	49 771	11 470
Ukraine	512 097	99 374	Great Britain	40 272	12 477
Poland	253 519	35 999	Finland	30 472	2 235
Denmark	234 930	70 549	Japan	30 376	4 745
The Netherlands	209 780	24 487	Egypt	26 696	8 243
Germany	123 488	18 650	France	22 734	3 535
Belarus	101 663	20 393	Latvia	18 300	4 087
Sweden	79 254	9 693	Israel	17 082	2 230
Lithuania	73 208	15 915	Moldova	9 442	2 027
Nigeria	59 945	20 101	Romania	8 467	2 050

Statistics Norway, the Norwegian Seafood Export Council

Catches of mackerel by Norwegian fishing vessels 1997-2007 *live weight tonnes*



Statistics are compiled on information from landings and contract notes sent from Fishermen's Sales Organisations to the Directorate of Fisheries per 26.05.08.

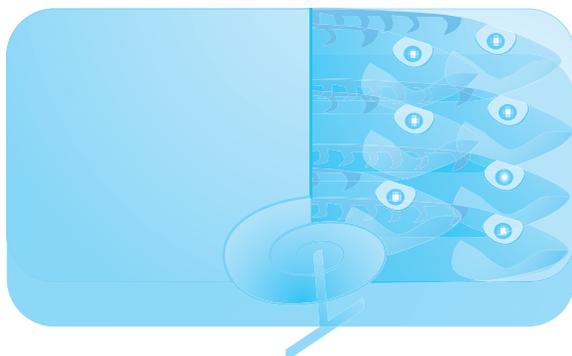
The Directorate of Fisheries

Norway's main export markets for mackerel 2007

1000 NOK, tonnes

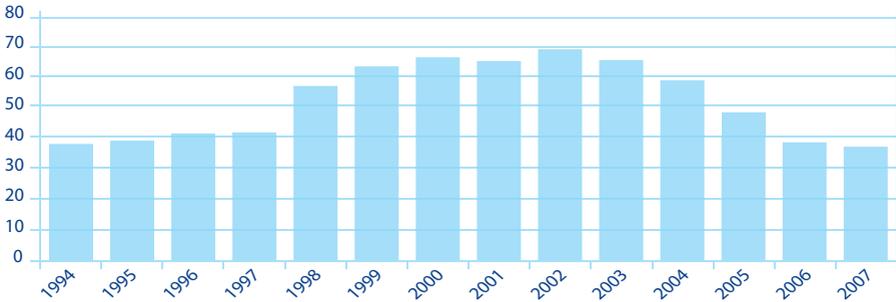
Country	Value	Quantity
Japan	644 859	60 118
China	287 724	30 109
Ukraine	202 144	19 614
The Russian Federation	183 832	17 488
Turkey	100 240	12 998
South Korea	80 063	7 533
USA	46 785	2 908
Great Britain	45 844	4 799
The Netherlands	30 360	2 690
Belarus	30 187	2 805
Sweden	20 225	781
Israel	16 351	1 150
Poland	16 308	2 172
Nigeria	13 947	1 896
Thailand	12 470	1 066
Germany	10 764	786
Lithuania	8 269	929
Denmark	7 812	391
Kazakhstan	7 241	708
France	6 959	516

Statistics Norway, the Norwegian Seafood Export Council



Prawns

Catches of prawns by Norwegian fishing vessels 1994-2007 *live weight tonnes*



Statistics are compiled on information from landings and contract notes sent from Fishermen's Sales Organisations to the Directorate of Fisheries per 26.05.08.

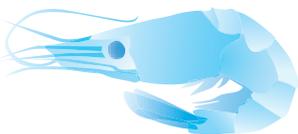
The Directorate of Fisheries

Norway's main export markets for prawns 2007

1000 NOK, tonnes

Country	Value	Quantity	Country	Value	Quantity
Sweden	233 148	5 926	Estland	2 323	56
Storbritannia	1 22 171	3 009	The Russian Federation	2 210	50
Finland	56 512	1 347	Japan	1 751	51
Denmark	50 906	1 324	Singapore	1 602	38
Iceland	48 386	3 620	South Korea	1 517	37
Spain	6 467	102	Saudi-Arabia	819	17
Switzerland	4 837	104	Turkey	531	12
Italy	4 328	58	Austria	479	9
France	4 308	94	South-Africa	364	5
Switzerland	2 866	50	Malaysia	358	9

Statistics Norway, the Norwegian Seafood Export Council



Sea mammals

Norwegian sealing 1980-2007

Year	Hooded seal (The West Ice)	Harp seal (The West Ice)	Harp seal (The East Ice)
1980	9 768	9 983	15 202
1985	338	557	19 007
1990	423	5 508	9 522
1995	933	8 206	6 357
2000	1 936	12 343	6 357
2006	3 647	3 304	10 086
2007	62	7 828	6 153

The Directorate of Fisheries

Norwegian coastal seal hunt 2001-2007

Year	Harbour seal	Gray seal
2001	466	105
2002	498	110
2003	457	353
2004	549	302
2005	614	379
2006	538	272
2007	905	456

The Directorate of Fisheries

Norwegian minke whaling 1996-2007

Year	Vessels	Number of animals
1996	31	388
1997	31	503
1998	34	625
1999	34	591
2000	33	487
2001	33	552
2002	34	634
2003	34	647
2004	34	543
2005	31	639
2006	28	545
2007	28	593

The Directorate of Fisheries

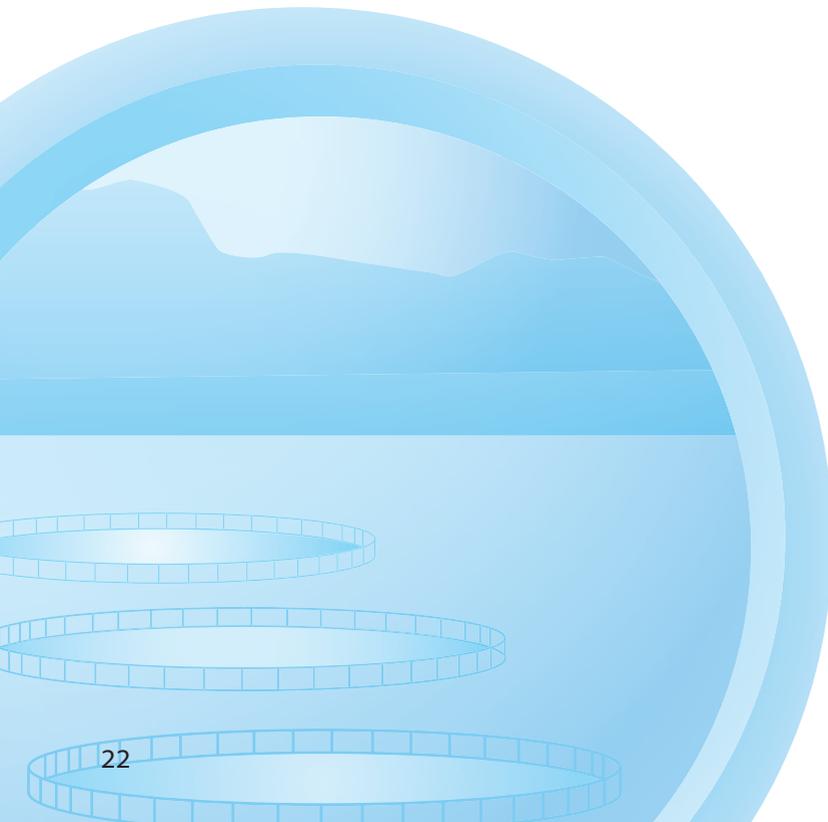


Aquaculture

The Norwegian aquaculture industry is a modern, internationally competitive industry that produces high quality food in an efficient manner. In terms of value, aquaculture products account for almost half of the total Norwegian fish export.

Atlantic salmon and rainbow trout are the dominating species in the aquaculture industry, however, extensive development is taking place with a view toward farming several new species, such as cod, halibut, wolf fish and shellfish.

A licence from the authorities is required to farm fish and shellfish in Norway. Environmental considerations and efforts related to fish health and welfare are given high priority in the industry and public administration, and will be an important condition for the aquaculture industry's ability to compete.



Number of licences for atlantic salmon, rainbow trout and trout 1995 and 2007

by county

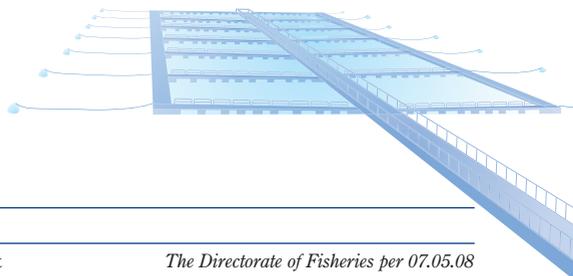
County	1995				2007			
	Smolt	Farmed fish	Brood stock	FoU	Settefisk	Farmed fish	Brood stock	FoU
Finnmark	3	33	1	1	4	83	1	2
Troms	22	65	1	1	15	86	1	4
Nordland	34	131	2	6	39	144	2	10
Nord-Trøndelag	18	55	1	2	18	64	1	3
Sør-Trøndelag	26	76	2	2	26	83	2	3
Møre og Romsdal	51	95	14	4	42	103	6	6
Sogn og Fjordane	39	71	2	1	28	83	1	1
Hordaland	80	135	9	6	63	150	6	7
Rogaland	29	52	4	2	22	62	2	11
Vest-Agder	6	12	-	-	3	16	-	-
Aust-Agder	2	6	-	-	1	2	1	-
Other counties	34	76	5	3	29	53	5	3
Total	344	807	41	28	292	929	28	50

The Directorate of Fisheries per 07.05.08

Number of licences for other species* 1995 and 2007

by county

County	1995	2007
Finnmark	39	53
Troms	24	30
Nordland	71	198
Nord-Trøndelag	15	26
Sør-Trøndelag	27	26
Møre og Romsdal	41	115
Sogn og Fjordane	23	68
Hordaland	92	130
Rogaland	30	78
Vest-Agder	8	7
Aust-Agder	2	9
Other counties	12	13
Total	384	753



* Other species but atlantic salmon and rainbow trout

The Directorate of Fisheries per 07.05.08

Number of licences* for other species 1995 and 2007

species

Species	1995	2007
Haddock	0	17
Halibut	39	126
Hake	0	10
Marine*	75	19
Turbot	3	31
Arctic char	45	55
Wolffish	0	17
Cod	200	547
Eel	14	12
Other	8	127
Total	384	961

In this chart licences are counted several times, and therefore give a higher total than the chart «Number of licences for other species, by county».

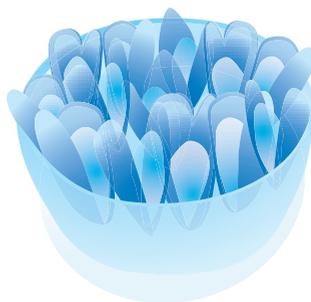
The Directorate of Fisheries per 07.05.08

* Licences that include several species

Number of licences for shellfish 1995 and 2007

by county

County	1995	2007
Finnmark	3	28
Troms	6	30
Nordland	45	191
Nord-Trøndelag	22	49
Sør-Trøndelag	30	47
Møre og Romsdal	36	40
Sogn og Fjordane	8	66
Hordaland	26	111
Rogaland	19	47
Vest-Agder	1	14
Aust-Agder	4	26
Other counties	13	25
Total	213	674



The Directorate of Fisheries per 07.05.08

Number of licences for shellfish 2002-2007

species

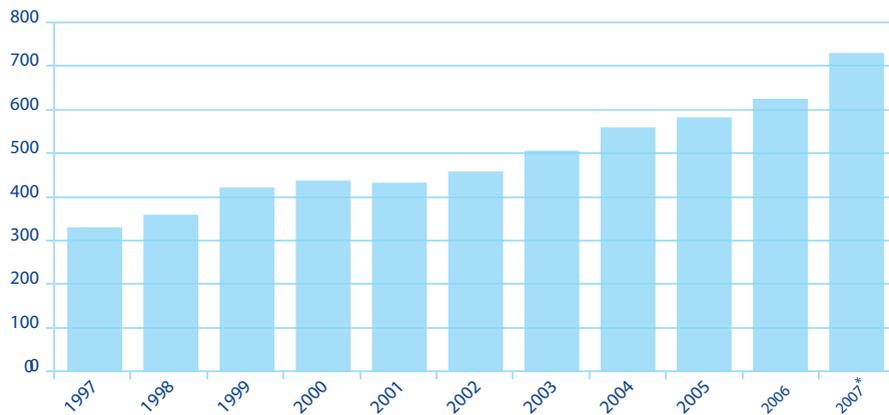
Species	2002	2003	2004	2005	2006	2007
Mussel	656	750	728	668	580	531
Lobster	8	11	15	18	22	22
Scallop	121	127	123	114	104	97
Sea porcupine	27	35	36	26	23	21
Oyster	131	136	130	130	117	108
Other	130	123	116	109	98	99
Total	1 073	1 182	1 148	1 065	944	878

Some licences comprehend several species. In the table above some licences are counted several times. The total number of licences in the table above are therefore higher than total number presented in table specified on counties.

The Directorate of Fisheries per 07.05.08

Sales turnover of Norwegian farmed atlantic salmon 1997-2007

live weight, 1000 tonnes



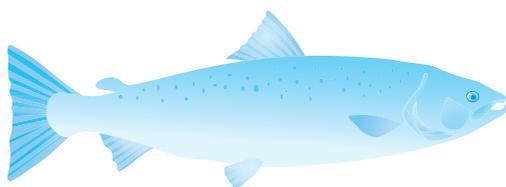
* The figures for 2007 are preliminary per June 2008

The Directorate of Fisheries

Norwegian export of farmed atlantic salmon 1998-2007

1000 NOK, tonnes

Year	Value	Quantity
1998	8 763 296	281 915
1999	10 766 037	337 977
2000	12 269 775	343 031
2001	10 003 588	338 594
2002	9 538 050	360 618
2003	10 043 353	414 412
2004	11 200 585	441 193
2005	13 570 073	476 470
2006	17 082 779	496 933
2007	17 485 419	608 554



Statistics Norway, the Norwegian Seafood Export Council

Norway's main export markets for farmed atlantic salmon 2007

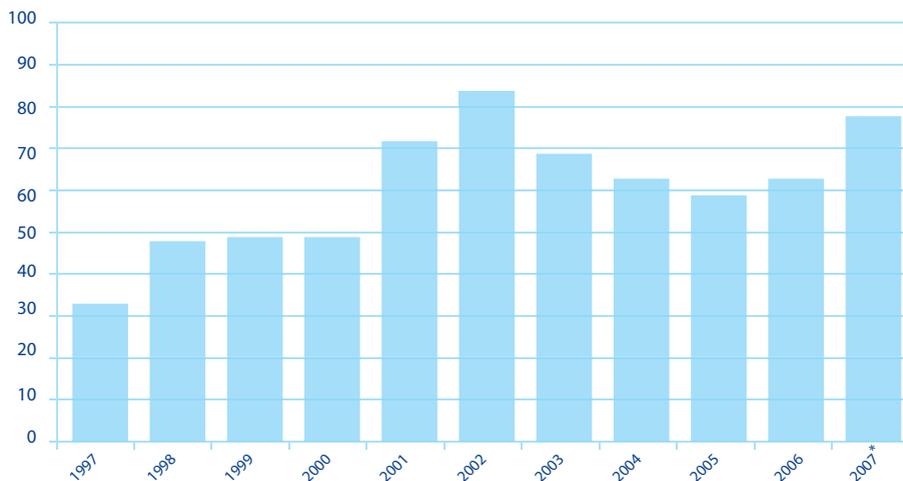
1000 NOK, tonnes

Country	Value	Quantity	Country	Value	Quantity
France	2 907 409	98 925	Italy	576 455	19 274
Denmark	1 952 953	74 802	Finland	545 058	21 409
Poland	1 421 109	51 268	USA	474 454	10 310
The Russian federation	1 355 663	54 622	Hong Kong	282 343	10 912
Great Britain	1 203 092	40 405	Ukraine	209 991	11 326
Sweden	9 05 579	25 952	China	200 989	8 015
Spain	899 903	32 545	South Korea	195 968	6 636z
Germany	812 561	23 683	Thailand	193 592	6 814
Japan	792 422	24 163	Belgium	163 659	5 437
The Netherlands	734 627	25 724	Israel	153 451	5 127

Statistics Norway, the Norwegian Seafood Export Council

Sales turnover of Norwegian farmed rainbow trout 1997-2007

1000 tonnes



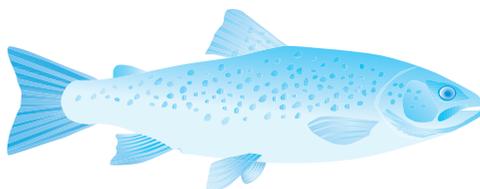
* The figures for 2007 are preliminary per June 2008

Statistics Norway, the Directorate of Fisheries

Norwegian exports of farmed rainbow trout 1998-2007

1000 NOK, tonnes

Year	Value	Quantity
1998	953 654	33 480
1999	1 257 899	35 116
2000	973 441	27 568
2001	1 092 963	45 224
2002	1 361 981	62 076
2003	1 260 056	53 389
2004	1 199 633	47 050
2005	1 245 568	43 424
2006	1 314 926	38 304
2007	1 270 158	49 525



Statistics Norway, the Norwegian Seafood Export Council

Norway's main export markets for farmed rainbow trout 2007

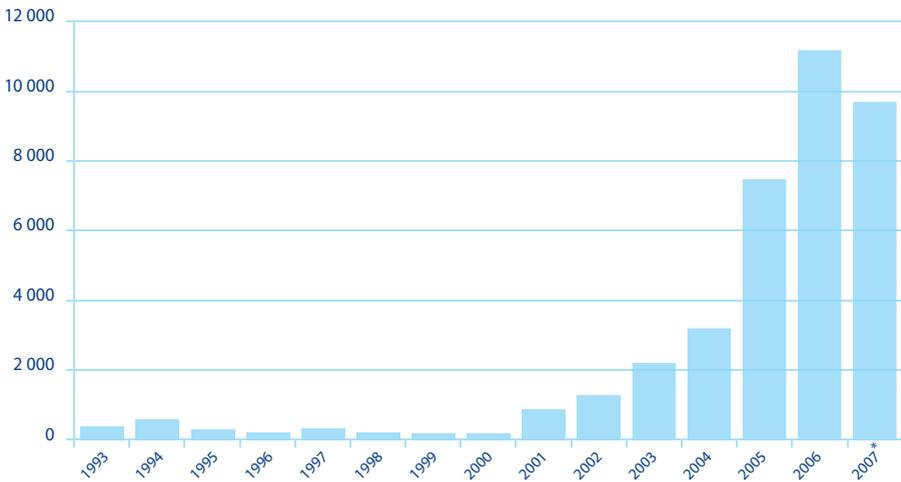
1000 NOK, tonnes

Country	Value	Quantity	Country	Value	Quantity
The Russian Federation	567 806	23 446	Canada	14 992	262
Japan	157 472	5 172	China	14 398	542
Ukraine	90 802	3 825	Estonia	14 206	508
Taiwan	87 659	3 254	Vietnam	12 723	476
Finland	53 612	2 264	Hong Kong	11 296	412
Thailand	44 172	1 588	Turkey	10 248	384
Belarus	39 159	1 442	South-Korea	9 354	350
Denmark	35 652	1 552	Malaysia	7 563	274
Latvia	18 416	828	France	7 165	242
Israel	15 194	726	Sweden	6 333	212

Statistics Norway, the Norwegian Seafood Export Council

Sales turnover of Norwegian farmed cod 1993-2007

1000 tonnes



* The figures for 2007 are preliminary per June 2008

Statistics Norway, the Directorate of Fisheries

Norwegian exports of farmed cod 2002-2007

1000 NOK, tonnes

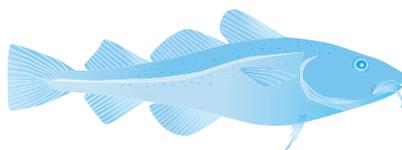
Year	Quantity	Value
2002	257	9 425
2003	604	21 755
2004	865	31 299
2005	2543	89 655
2006	3684	137 256
2007	4092	166 240

Statistics Norway, the Norwegian Seafood Export Council

Norway's main export markets for farmed cod 2007

1000 NOK, tonnes

Country	Value	Quantity
France	43 337	1 050
Denmark	36 968	1 012
Great Britain	22 144	505
The Netherlands	17 429	323
Spain	14 938	430
Belgium	13 860	343
Sweden	6 545	154
Germany	5 308	134
Italy	1 914	48
Portugal	1 530	42
Other	2 268	51
Total	166 241	4 092



Statistics Norway, the Norwegian Seafood Export Council

Research and innovation

Norway is a leader internationally in management-related research. This research provides an important basis for setting quotas for the various types of fish and for questions related to food safety and nutrition.

Industry-related research in the fishing and aquaculture sector is also conducted at a high, international level. Increasingly more knowledge and expertise is required in the marine sector. Increased knowledge and expertise contribute to improved competitive abilities and new employment in existing and new industries. There are many opportunities linked to the better use of by-products, biotechnology and marine resources that have not yet been made use of.

The Norwegian focus on marine industry development through research and education is long-term. More than a billion Norwegian kroner are allocated each year from the Norwegian national budget to marine research. The objective of the new marine research and innovation programme is to ensure that Norwegian companies, to an even greater extent, will be able to offer the kind of seafood the markets demand.

Research vessels from the Institute of Marine Research 2007

Vessel	Cruise days
«G.O. Sars»	301
«Johan Hjort»	309
«Håkon Mosby»	304
«G.M. Dannevig»	195
«Hans Brattstrøm»	231
«Dr. Fridtjof Nansen»	311
«Jan Mayen»	71
«Fangst»	188
Hired vessels	999
Total	2 909



Institute of Marine Research

Research and development expenses and funding source in marine sector 2005

mill NOK and percentage

Field of funding	Universities and colleges	Institutes	Industry and commerce *	Total	Percentage
Governmental funding	392,2	856,6	14,8	1 263,6	71
Private funding	38,6	247,3	218,8	504,7	29
Marine FoU	430,8	1 103,9	233,6	1 768,3	100

* Because of a low percentage of feedback the basis of figures may be somewhat underestimated.

NIFU STEP

Research and development expenses and research area in marine sector 2005

mill NOK and percentage

Marine research and development area	Expenses	Percentage share
Basic marine biology	123,1	7
Marine biodiversity	151,6	9
Oceanography, climate research, ecology, environmental toxicology, environmental poisons and eutrophication	280,5	16
Technology for surveillance and estimates of stocks for marine resources	72	4
Mathematical and numeric models for marine research	146,2	8
Bio economics and bio economical models	15,5	1
Aquaculture, combination of catches and fish-farming	472,9	27
Marine and maritime technology, fisheries, aquaculture and integrated transport solutions	104,2	6
Marine biotechnology	150,9	9
Food processing industry based on marine resources (processing, - technics, hygienics, logistics, quality control and nutrition)	147,9	8
Market, organisation, framework conditions, society, politics and coastal management	103,5	6
Total	1 768,3	100

NIFU STEP



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Norway's official
site on seafood safety
and resource and
aquaculture management

The Norwegian Ministry of Fisheries
and Coastal Affairs

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