



Facts about Fisheries and Aquaculture 2013



**NORWEGIAN MINISTRY OF
FISHERIES AND COASTAL AFFAIRS**

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Norwegian seafood production

– consumption and export

The Norwegian fishing and aquaculture industry currently supplies seafood to consumers in more than 130 countries worldwide. This is healthy food, produced in a cold 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. 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 2007–2012

per person, kilos

	2007	2008	2009	2010	2011	2012
Purchased	17,5	17,1	17,2	16,7	16,1	16,7
Caught by consumer	1,1	1,3	1,1	0,7	0,4	0,9*
Gift	0,2	0,3	0,3	0,2	0,2	0,3
Total consumption at home	18,8	18,6	18,6	17,6	16,8	17,8
Institutional household*	4,0	4,0	3,8	3,8	4,0	**
Total consumption	22,8	22,6	22,5	21,4	20,8	**

Source: GfK-Norge, Sissel Flesland Markedsinformasjoner, Norwegian Seafood Council

* Preliminary number for 2012

** The figures will be published autumn 2013

Norwegian consumption of seafood purchased 2005–2012

per person, kilos

Species	2005	2006	2007	2008	2009	2010	2011	2012
Cod	2,59	2,71	2,63	2,79	2,88	2,67	2,53	2,75
Shrimp	2,20	2,00	2,00	1,74	1,74	1,63	1,52	1,50
Atlantic Salmon	1,93	1,88	2,06	2,17	2,18	2,20	2,47	3,00
Saithe	1,23	1,39	1,20	1,09	1,04	0,97	0,84	0,80
Herring	1,11	1,10	1,03	1,02	0,94	0,93	0,87	0,92
Mackerel	1,14	1,06	1,11	1,15	1,17	1,22	1,24	1,18
Rainbow Trout	0,68	0,70	0,76	0,82	0,76	0,53	0,54	0,48

Source: GfK-Norge, Norwegian Seafood Council

Seafood production 2011

tonnes

	Catches	Fish-farming	Total
Worldwide	94 593 679	83 729 313	178 322 992
Norway	2 433 811	1 138 797	3 572 608

Source: FAO, Norwegian Seafood Council

Seafood exports 2009

tonnes, 1000 USD

	Quantity	Value
Worldwide	32 540 331	96 692 082
Norway	2 581 145	7 107 237

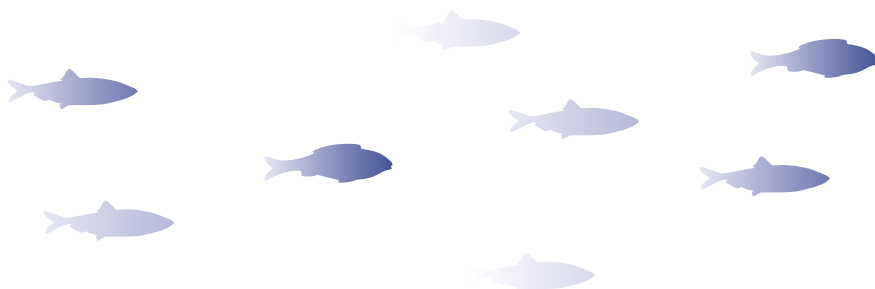
Source: FAO, Norwegian Seafood Council

Largest seafood production nations – catches and fish-farming 2011

mill tonnes

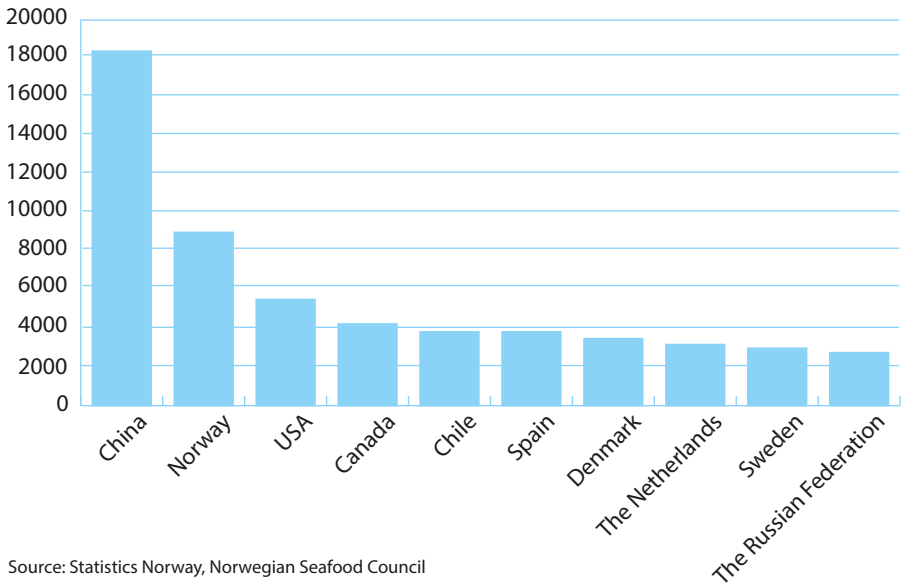
Country	Quantity
China	66,2
Indonesia	13,7
India	8,9
Peru	8,3
USA	5,6
Vietnam	5,6
Philippines	5,0
Japan	4,8
Chile	4,4
The Russian Federation	4,4
Myanmar	4,2
Norway	3,6
Korea	3,3
Bangladesh	3,1
Thailand	2,9

Source: FAO, Norwegian Seafood Council



Largest seafood export nations 2012

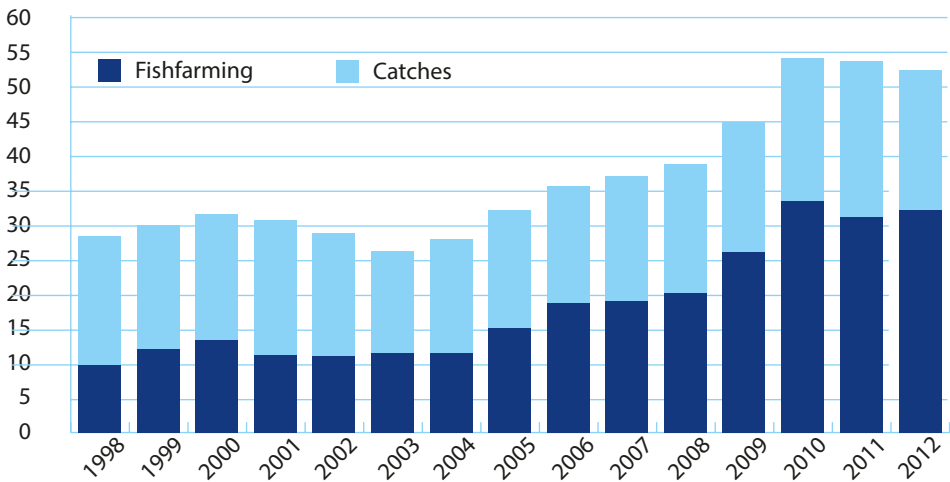
1000 USD



Source: Statistics Norway, Norwegian Seafood Council

Norwegian seafood exports 1998–2012

bill. NOK



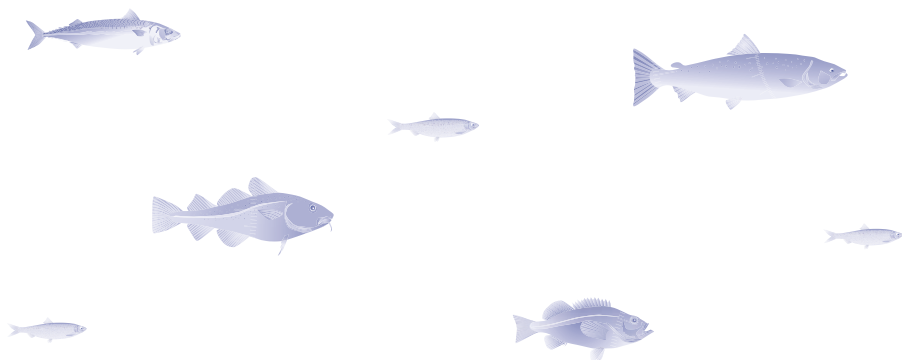
Source: Statistics Norway, Norwegian Seafood Council

Main export markets for Norwegian seafood 2012

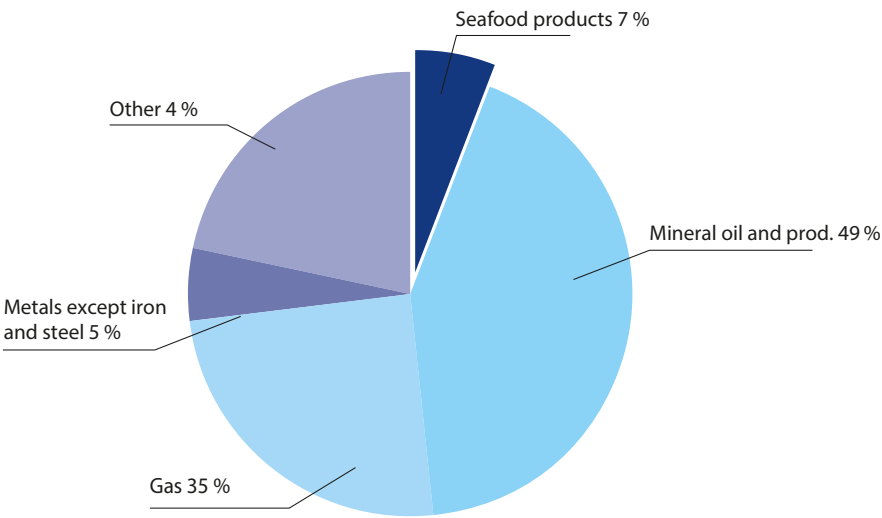
1000 NOK, tonnes

Country	Value	Quantity
The Russian Federation	5 961 867	324 068
France	4 884 431	164 178
Poland	3 863 332	160 523
Denmark	3 401 093	211 706
Sweden	2 445 349	75 902
Great Britain	2 405 897	120 717
China	2 182 390	155 883
Japan	2 169 758	104 967
Germany	2 120 913	96 810
Portugal	1 937 854	55 251
Spain	1 729 687	63 922
The Netherlands	1 664 490	92 383
Ukraine	1 417 241	111 544
USA	1 349 385	35 592
Italy	1 325 892	36 953
Lithuania	1 226 880	88 344
Brazil	1 114 029	29 217
Finland	1 064 158	59 302
Hong Kong	596 605	20 383
Nigeria	576 859	45 185
Turkey	523 398	45 155
Vietnam	499 871	20 656

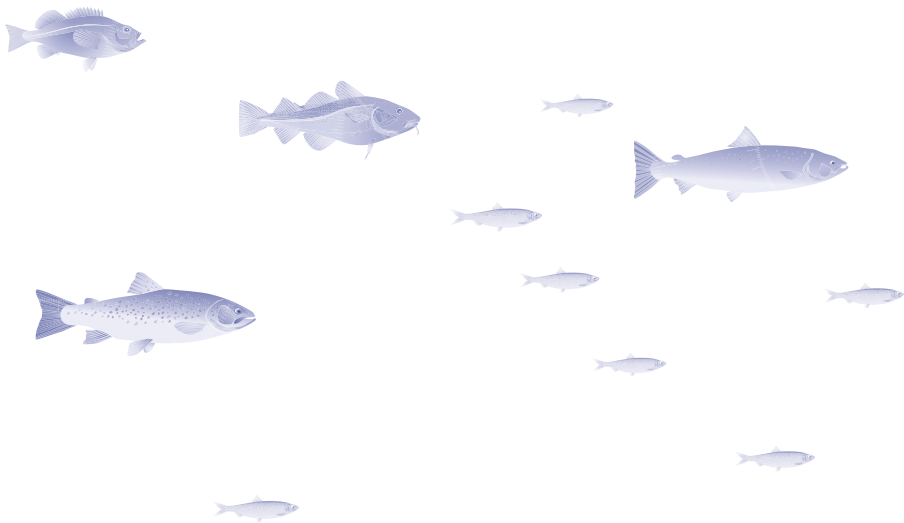
Source: Statistics Norway, Norwegian Seafood Council



Fisheries and aquaculture's share of Norwegian exports 2012



Source: Statistics Norway, Norwegian Seafood Council

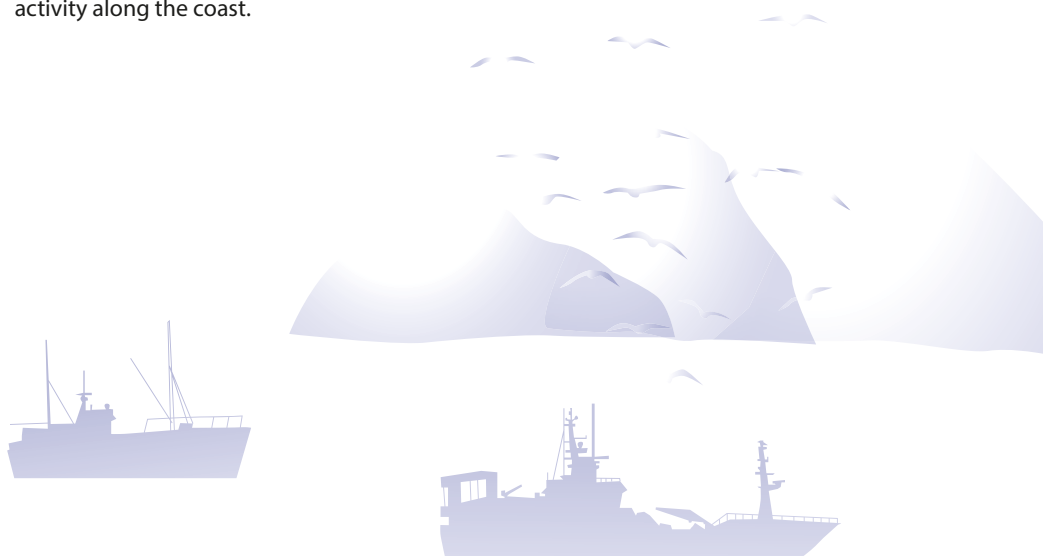


Fisheries and catches

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.



Fishing vessels¹⁾ operated all-year-round 2012

by county, length

County	0 – 11 m	11 – 14,9 m	15 – 20,9 m	21 – 27,9 m	28 m and over	Total
Finnmark	687	100	23	9	15	834
Troms	617	99	19	17	23	775
Nordland	1 052	239	79	47	31	1 448
Nord- og Sør-Trøndelag	350	56	5	5	7	423
Møre og Romsdal	410	74	9	14	74	581
Sogn og Fjordane	177	20	5	10	25	237
Hordaland	288	30	7	9	49	383
Rogaland	203	27	4	12	17	263
Other counties	373	57	8	12	6	456
Total	4 157	702	159	135	247	5 400

Source: The Directorate of Fisheries

Statistics are based on information from landing and contract notes sent from Fishermen's Sales Organisations to the Directorate of Fisheries per 19.03.2013

1) Vessels registered by catch value with the Directorate of Fisheries

Number of fishermen 1940–2012

Year	Sole or main occupation	Secondary occupation	Total
1940	80 387	41 574	121 961
1950	68 149	30 175	98 324
1960	49 720	20 655	70 375
1990	20 475	7 043	27 518
2000	14 264	5 811	20 075
2001	13 674	5 221	18 895
2002	13 841	4 651	18 492
2003	13 821	4 830	18 651
2004	13 150	4 192	17 342
2005	12 216	3 316	15 532
2006	11 475	3 253	14 728
2007	11 018	3 016	14 034
2008	10 619	2 918	13 537
2009	10 465	2 764	13 229
2010	10 325	2 668	12 993
2011	10 220	2 548	12 768
2012 ¹⁾	9 825	2 226	12 051

Source: The Directorate of Fisheries

1) The figures for 2012 are updated as of 20.02.2013

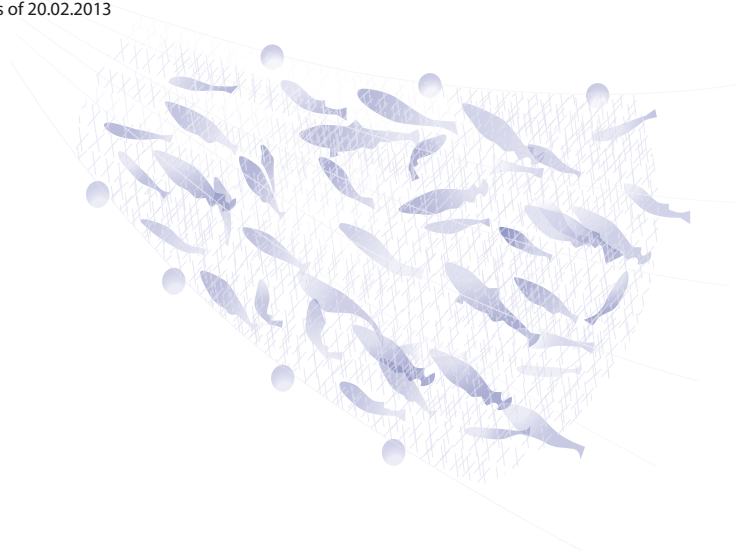
Number of fishermen 2012¹⁾

by county

County	Sum	Sole or main occupation	Secondary occupation
Finnmark	1 408	1 099	309
Troms	1 515	1 171	344
Nordland	2 878	2 349	529
Nord-Trøndelag	293	211	82
Sør-Trøndelag	504	383	121
Møre og Romsdal	2 435	2 170	265
Sogn og Fjordane	692	576	116
Hordaland	972	861	111
Rogaland	532	401	131
Vest-Agder	314	215	99
Aust-Agder	104	65	39
Telemark	66	51	15
Vestfold	76	57	19
Buskerud	18	16	2
Oppland	18	16	2
Hedmark	17	16	1
Akershus	34	33	1
Oslo	41	34	7
Østfold	134	101	33
Total	12 051	9 825	2 226

Source: The Directorate of Fisheries

1) The figures are updated as of 20.02.2013



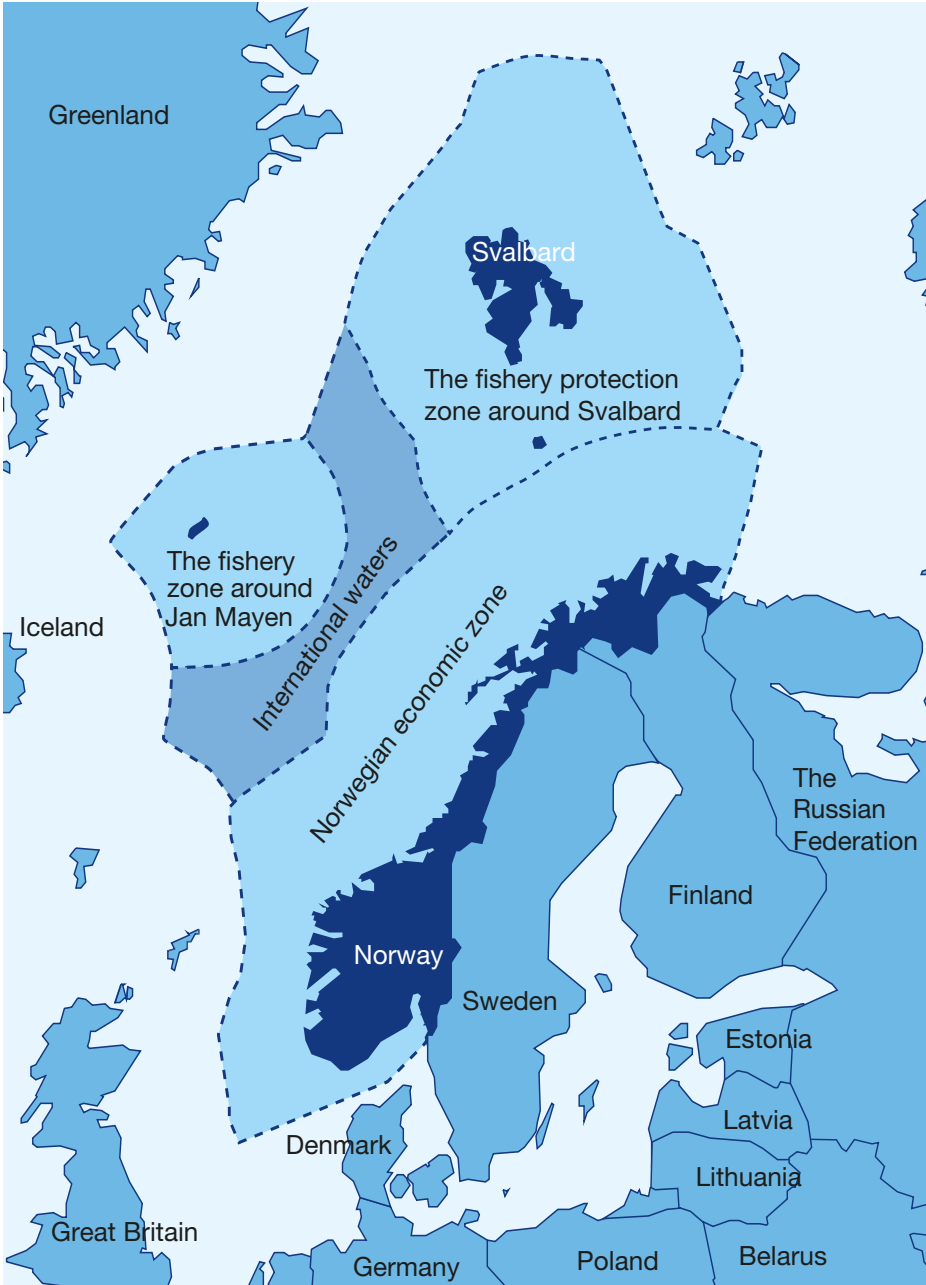
Registered vessels 1990–2012

by county

County	1990	2005	2009	2010	2011	2012 ¹⁾
Finnmark	1 883	1 106	922	910	935	940
Troms	3 242	1 301	1 095	1 006	936	916
Nordland	4 200	2 011	1 631	1 580	1 583	1 610
Nord-Trøndelag	523	199	191	192	195	180
Sør-Trøndelag	921	293	304	305	303	317
Møre og Romsdal	1 946	883	707	700	688	668
Sogn og Fjordane	1 316	363	286	288	272	272
Hordaland	1 265	526	450	427	446	459
Rogaland	727	398	339	338	330	324
Vest-Agder	614	251	239	239	235	222
Aust-Agder	207	110	97	88	90	88
Telemark	116	75	58	56	53	48
Vestfold	136	64	61	66	64	60
Buskerud	21	5	5	4	6	4
Oppland	0	0	0	0	0	0
Hedmark	0	0	0	0	0	0
Oslo	12	3	5	5	4	7
Akershus	25	13	13	11	14	14
Østfold	237	121	103	95	96	85
Total	17 391	7 722	6 506	6 310	6 250	6 214

Source: The Directorate of Fisheries

1) The figures are updated as of 27.02.2013



Catches landed by Norwegian fishing vessels 2008–2012

live weight, tonnes

Species	2008	2009	2010	2011	2012 ¹⁾
Herring	1 027 873	1 077 250	923 741	633 103	610 718
Sardines	4 453	11 469	14 647	12 357	10 364
Mackerel	121 496	121 229	233 957	207 955	176 109
Capelin	40 907	233 005	273 782	362 368	268 495
Blue whiting	418 289	225 996	194 318	20 540	118 831
Sandeel	88 203	64 711	143 682	112 192	47 077
Horse mackerel	12 244	72 619	12 655	21 135	3 380
Cod	215 444	243 659	283 481	340 167	357 945
Saithe	227 295	202 377	228 114	190 344	176 413
Haddock	74 299	106 324	124 696	159 550	160 945
Cusk	16 197	13 763	17 013	14 754	13 439
Ling	19 887	17 108	18 939	16 139	16 074
Redfish	8 117	8 296	13 339	9 799	10 276
Greenland halibut	9 017	10 176	9 789	10 232	12 717
Shrimp	30 741	27 325	22 123	24 467	18 735
Crab/ Red King Crab	10 494	10 585	7 680	7 104	6 450
Mussels	918	775	767	745	680
Antarctic krill	69 542	49 216	119 072	119 488	92 913
Seaweed and kelp	154 215	160 361	158 516	152 382	140 336
Other	41 330	41 252	37 360	36 465	38 177
Total	2 590 961	2 697 496	2 837 671	2 451 286	2 280 074

Source: The Directorate of Fisheries

Statistics are based on information from landing and contract notes sent from Fishermen's Sales Organisations to the Directorate of Fisheries

1) Preliminary numbers for 2012 per 29.05.2013



The value of catches landed by Norwegian fishing vessels 2008–2012

1000 NOK

Species	2008	2009	2010	2011	2012 ¹⁾
Herring	2 805 632	2 686 017	2 746 236	3 333 322	3 560 694
Sardines	18 522	31 955	38 540	34 870	28 937
Mackerel	1 290 264	960 129	1 817 270	2 560 516	1 290 074
Capelin	98 599	378 513	529 686	786 105	459 681
Blue whitting	423 999	316 242	363 131	65 731	276 742
Sandeel	101 874	91 836	269 079	201 772	98 155
Horse mackerel	101 754	279 090	71 211	173 168	23 070
Cod	3 533 105	2 823 277	2 971 242	3 959 421	3 834 174
Saithe	1 266 539	1 207 616	1 603 338	1 492 686	1 352 369
Haddock	647 339	828 500	1 043 066	1 335 609	1 311 582
Cusk	128 873	97 010	137 381	119 956	105 323
Ling	239 273	174 790	203 343	181 244	179 669
Redfish	66 477	62 010	124 332	111 359	103 798
Greenland halibut	182 243	200 849	220 735	260 292	295 416
Shrimp	588 037	554 072	518 244	597 888	509 486
Crab/ Red king crab	177 343	167 901	135 525	199 228	163 970
Mussels	19 137	16 241	16 061	15 444	14 392
Antarctic krill	22 259	16 642	43 005	56 345	47 468
Seaweed and kelp	33 461	*	*	28 222	25 875
Other	447 068	417 884	496 620	548 551	525 599
Total	12 191 798	11 310 574	13 348 046	16 061 729	14 206 474

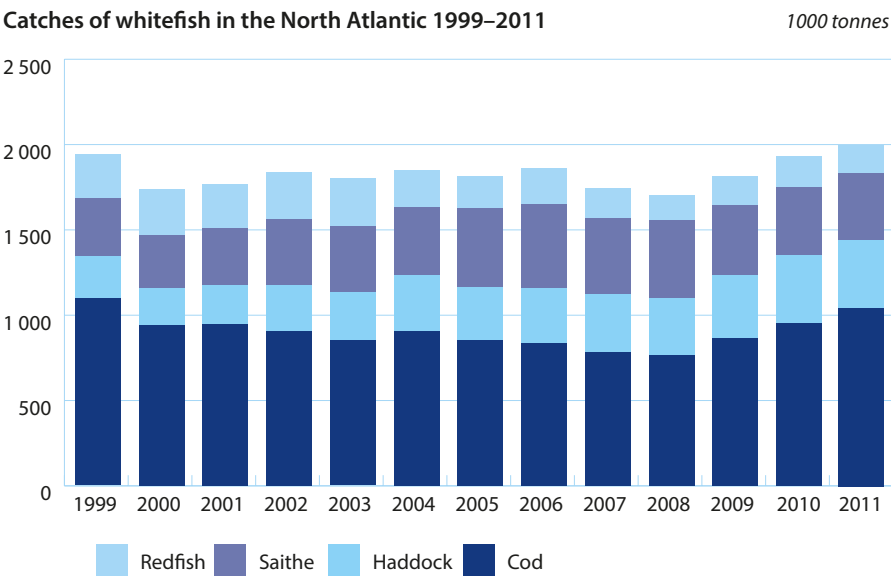
Source: The Directorate of Fisheries

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

1) Preliminary numbers for 2012 per 29.05.2013

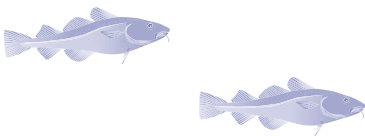
* Due to few units, this number will not be presented statistically

Whitefish



Source: FAO, Norwegian Seafood Council

Norwegian exports of whitefish 2012 1000 NOK, tonnes

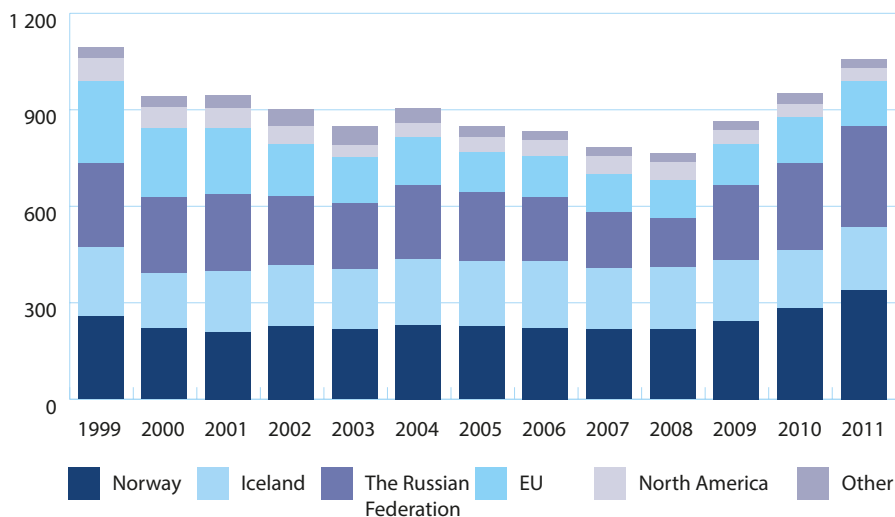


Species	Value	Quantity
Cod	5 636 131	168 860
Saithe	1 676 408	74 878
Haddock	1 459 390	95 467
Greenland halibut	304 645	9 416
Ling	231 503	6 084
Cusk	179 843	5 187
Atlantic halibut	129 069	1 871
Monkfish	90 780	1 821
Other	331 565	16 057
Total	10 039 333	379 640

Source: Statistics Norway, Norwegian Seafood Council

Catches of cod in the North-Atlantic 1999–2011

1000 NOK



Source: FAO, Norwegian Seafood Council

Norway's main export markets for cod 2012

1000 NOK, tonnes

Country	Value	Quantity	Country	Value	Quantity
Portugal	1 575 694	42 455	Poland	94 124	5 336
Denmark	642 857	23 926	Germany	93 849	2 735
Brazil	481 516	9 085	Lithuania	89 326	4 985
France	435 217	9 422	The Netherlands	76 797	3 709
China	426 223	25 055	USA	63 810	1 556
Italy	412 275	4 192	Greece	48 668	1 481
Great Britain	316 530	10 255	Venezuela	39 466	713
Spain	257 668	8 532	Switzerland	34 608	664
Sweden	227 094	6 281	Canada	30 874	1 058
Nigeria	96 530	1 427	Mexico	28 176	509

Source: Statistics Norway, Norwegian Seafood Council

Pelagic fish

Norwegian exports of pelagic fish 2012

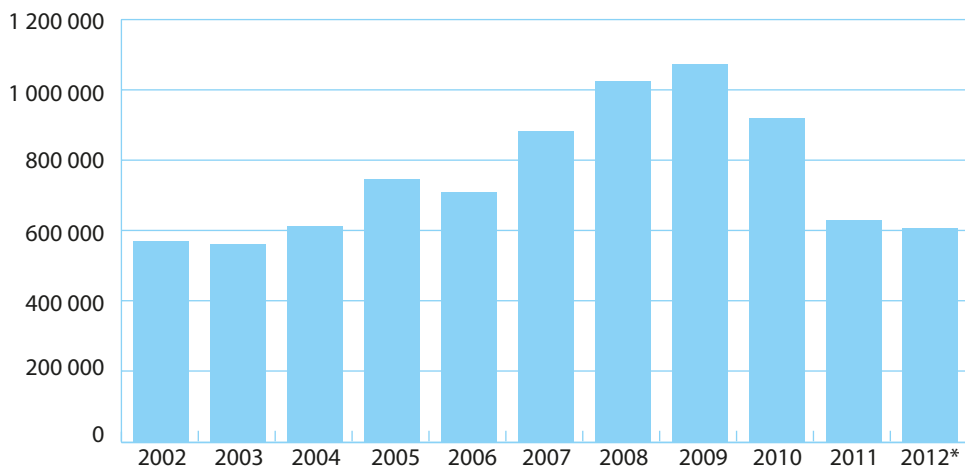
1000 NOK, tonnes

Species	Value	Quantity
Herring	4 191 582	392 530
Mackerel	3 007 380	274 987
Capelin	374 429	89 394
Blue whitting	266 108	102 645
Horse Mackerel	60 607	5 849
Other pelagic fish (not counting tuna)	7 322	1 094
Other tuna/boritos	2 754	95
Anchovy	116	3
Albacore	40	1
Yellowfin tuna	23	0,2
Total	7 910 363	866 598

Source: Statistics Norway, Norwegian Seafood Council

Norwegian catches of herring

live weight tonnes



Source: The Directorate of Fisheries

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

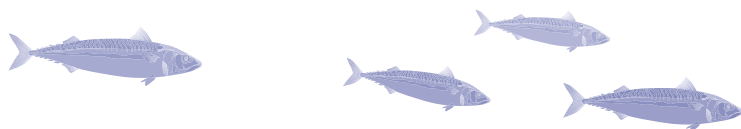
* Preliminary numbers for 2012 per 29.05.2013

Norway's main export markets for herring 2012

1000 NOK, tonnes

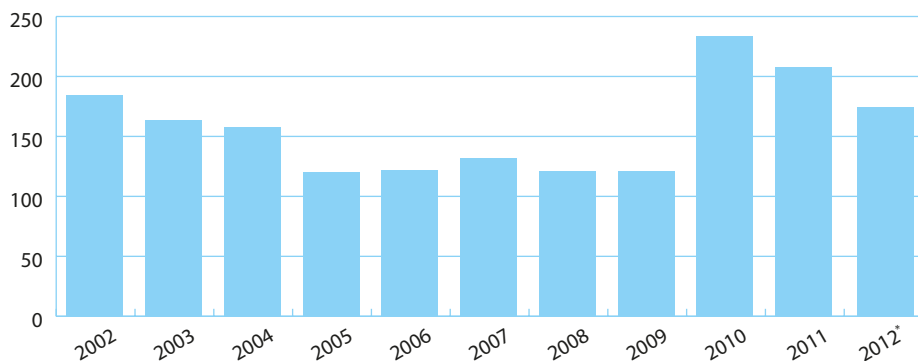
Country	Value	Quantity	Country	Value	Quantity
The Russian Federation	908 477	90 847	France	69 048	5 505
Germany	756 186	53 313	Japan	56 900	5 190
Ukraine	495 964	60 714	Great Britain	54 479	9 791
Lithuania	325 680	35 199	Finland	51 088	2 346
Poland	265 611	19 922	Nigeria	39 061	6 686
Denmark	248 959	25 169	Latvia	34 203	4 420
The Netherlands	200 910	15 454	Israel	30 178	2 308
Sweden	198 625	10 211	Kazakhstan	25 418	3 353
Belarus	183 165	13 364	Canada	20 830	1 500
Egypt	110 868	15 315	New Zealand	17 897	2 108

Source: Statistics Norway, Norwegian Seafood Council



Catches of mackerel by Norwegian fishing vessels 2002-2012

live weight, 1000 tonnes



Source: The Directorate of Fisheries

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

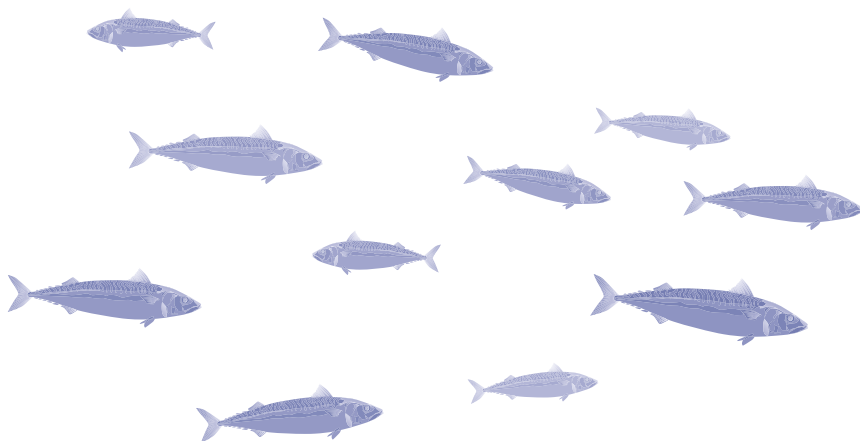
* Preliminary numbers for 2012 per 29.05.2013

Norway's main export markets for mackerel 2012

1000 NOK, tonnes

Country	Value	Quantity
Japan	567 450	48 183
China	502 085	48 244
The Russian Federation	250 209	19 620
Nigeria	236 109	27 461
The Netherlands	190 576	18 523
Turkey	181 121	18 990
South-Korea	161 559	13 691
Lithuania	97 373	8 603
Taiwan	93 699	7 217
Ukraine	87 988	7 386
Poland	75 402	7 485
Sweden	75 115	2 783
Great Britain	61 573	7 688
USA	43 945	2 858
Thailand	42 618	3 817
Georgia	31 218	3 144
Egypt	27 141	3 415
Vietnam	24 031	2 358
Singapore	23 161	1 601
Germany	23 061	1 507

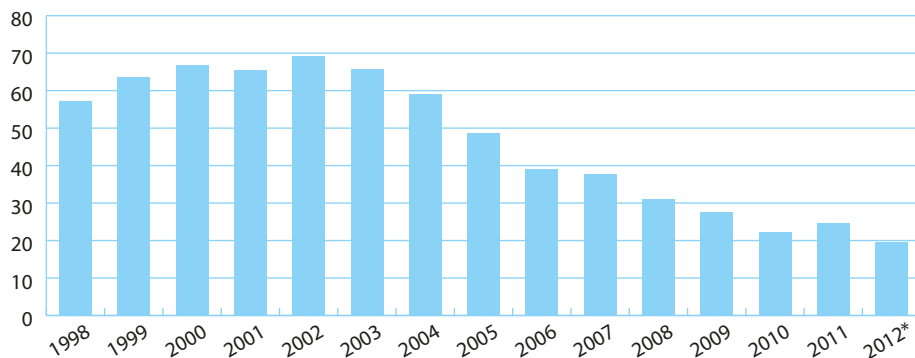
Source: Statistics Norway, Norwegian Seafood Council



Shrimp

Catches of shrimp by Norwegian fishing vessels 1998-2012

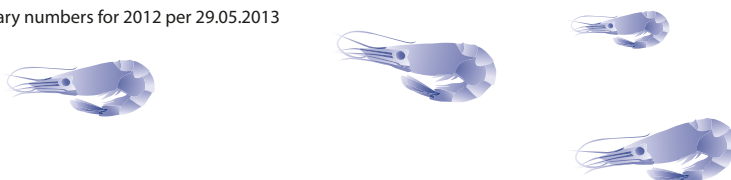
live weight, tonnes



Source: The Directorate of Fisheries

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

* Preliminary numbers for 2012 per 29.05.2013



Norway's main export markets for shrimp 2012

1000 NOK, tonnes

Country	Value	Quantity	Country	Value	Quantity
Sweden	254 647	4 213	South-Korea	3 063	55
Great Britain	111 348	1 922	Ireland	2 752	51
Finland	108 178	1 866	Turkey	2 418	40
France	23 678	409	China	2 110	70
Denmark	13 778	378	Japan	930	16
Iceland	13 713	801	Estonia	815	15
Italy	12 032	228	Latvia	546	9
Germany	5 833	97	South Africa	385	3
Singapore	4 526	84	Abu Dhabi	301	5
Switzerland	3 662	57	Saudia-Arabia	199	3

Source: Statistics Norway, Norwegian Seafood Council

Marine mammals

Norwegian sealing 1980–2012

No. of animals

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	6 842
2000	1 936	12 343	6 357
2008	0	1 263	0
2009	402 ¹⁾	8 035	0
2010	178 ¹⁾	4 678 ²⁾	115 ³⁾
2011	21 ⁴⁾	7 452	200
2012	21 ⁵⁾	5 593 ⁶⁾	0

Source: The Directorate of Fisheries

1) Scientific catch

2) Scientific catch constitutes 20 animals

3) Scientific catch constitutes 10 animals

4) Scientific catch constitutes 19 animals

5) Scientific catch constitutes 21 animals

6) Scientific catch constitutes 1 animal

Norwegian coastal seal hunt 2000–2012

Year	Harbour seal	Grey seal
2000	359	176
2001	466	105
2002	412	110
2003	457	353
2004	549	302
2005	614	379
2006	660	329
2007	905	456
2008	900	458
2009	585	516
2010	159	363
2011	230	111
2012	355	64

Source: The Directorate of Fisheries

Norwegian minke whaling 2000–2012

Year	Wessels	Animals
2000	33	487
2001	33	552
2002	34	634
2003	34	647
2004	34	543
2005	31	639
2006	28	545
2007	28	593
2008	27	535
2009	21	483
2010	18	468
2011	19	533
2012	18	465

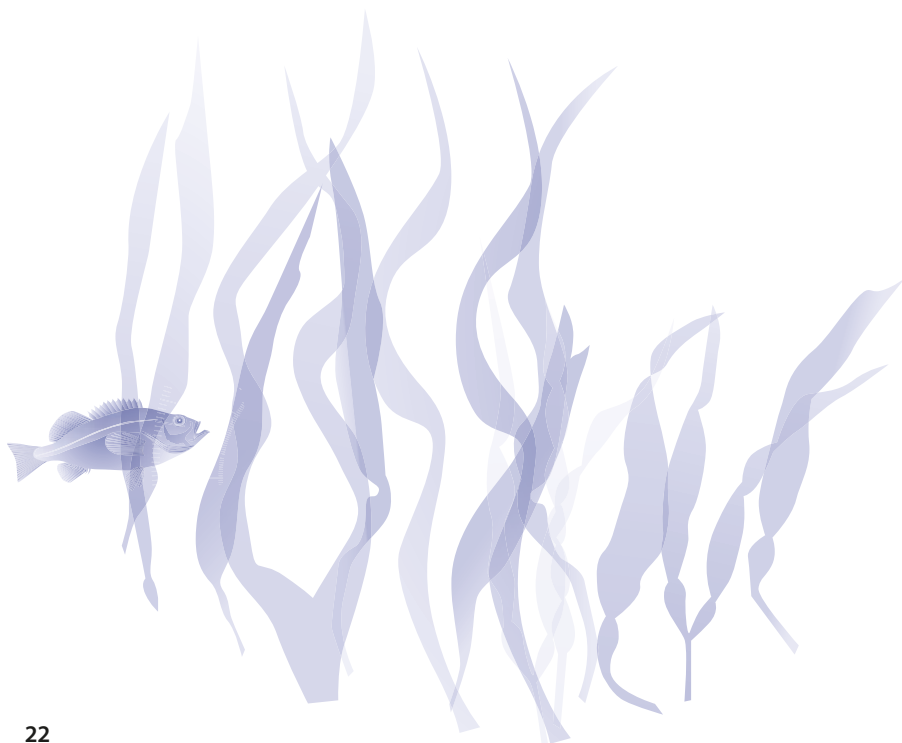
Source: The Directorate of Fisheries

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 approximately 60 % of the total Norwegian seafood 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 2012

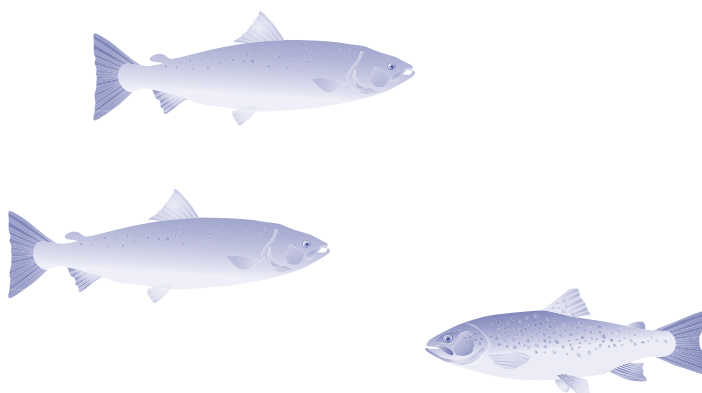
by county

County	1995				2012 ¹⁾			
	Smolt	Farmed fish	Brood stock	R&D*	Smolt	Farmed fish	Brood stock	R&D*
Finnmark	3	33	1	1	4	90	0	1
Troms	22	65	1	1	11	95	1	3
Nordland	34	131	2	6	32	161	4	8
Nord-Trøndelag	18	55	1	2	16	70	0	4
Sør-Trøndelag	26	76	2	2	21	93	6	5
Møre og Romsdal	51	95	14	4	35	110	6	4
Sogn og Fjordane	39	71	2	1	23	88	3	1
Hordaland	80	135	9	6	62	156	5	6
Rogaland	29	52	4	2	18	59	4	10
Vest-Agder	6	12	0	0	3	16	0	0
Aust-Agder	2	6	0	0	1	3	1	0
Other counties	34	76	5	3	9	22	3	2
Total	344	807	41	28	235	963	33	44

Source: The Directorate of Fisheries

1) The figures are updated as of 31.01.2013

* Research and development



Number of licences for other species* 1995 and 2012 *by county*

County	1995	2012 ¹⁾
Finnmark	39	25
Troms	24	16
Nordland	71	118
Nord-Trøndelag	15	20
Sør-Trøndelag	27	17
Møre og Romsdal	41	41
Sogn og Fjordane	23	31
Hordaland	92	59
Rogaland	30	48
Vest-Agder	8	5
Aust-Agder	2	6
Other counties	12	7
Total	384	393

Source: The Directorate of Fisheries

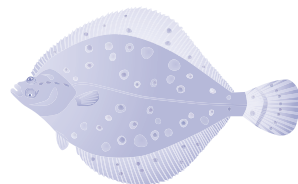
1) The figures are updated as of 31.01.2013

* Other species but atlantic salmon and rainbow trout



Number of licences for other species 1995 and 2012 *species*

Species	1995	2012 ¹⁾
Haddock	–	19
Atlantic Halibut	39	83
Wrasse	–	114
Hake	–	9
Marin	75	–
Turbot	3	32
Lumpfish	–	27
Char	45	39
Wolffish	–	58
Cod	200	249
Eel	14	16
Other	8	250
Total	384	896



Source: The Directorate of Fisheries

1) The figures are updated as of 31.01.2013

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.

Number of licences for shellfish 1995 and 2012

by county

County	1995	2012 ¹⁾
Finnmark	3	6
Troms	6	8
Nordland	45	39
Nord-Trøndelag	22	28
Sør-Trøndelag	30	23
Møre og Romsdal	36	15
Sogn og Fjordane	8	28
Hordaland	26	61
Rogaland	19	26
Vest-Agder	1	8
Aust-Agder	4	23
Other counties	13	19
Total	213	284

Source: The Directorate of Fisheries

1) The figures are updated as of 31.01.2013

Number of licences for shellfish 2006–2012

Species	2006	2007	2008	2009	2010	2011	2012 ¹⁾
Blue mussel	580	531	417	351	283	247	212
Lobster	22	22	27	29	25	28	29
Scallop	104	97	98	90	78	73	61
Sea porcupine	23	21	16	26	7	8	34
Oyster	117	108	117	116	95	90	80
Other	98	99	132	117	134	156	148
Total	944	878	807	729	622	602	564

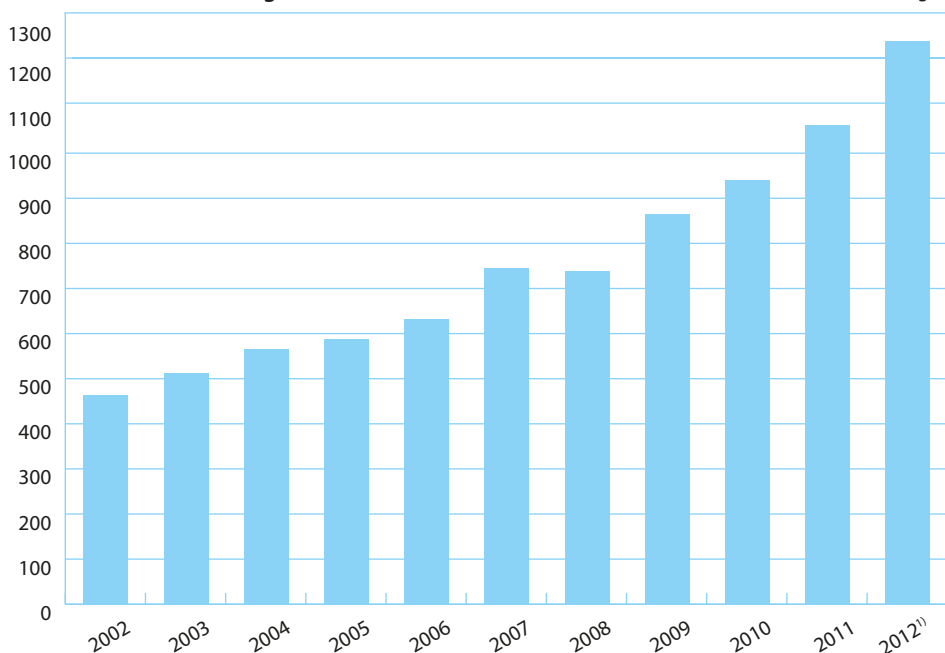
Source: The Directorate of Fisheries

1) The figures are updated as of 31.01.2013

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.

Sales turnover of Norwegian farmed atlantic salmon 2002–2012

1000 tonnes, live weight



Source: Statistics Norway, The Directorate of Fisheries

1) Preliminary numbers for 2012 per June 2013



Norway's main export markets for farmed atlantic salmon 2012

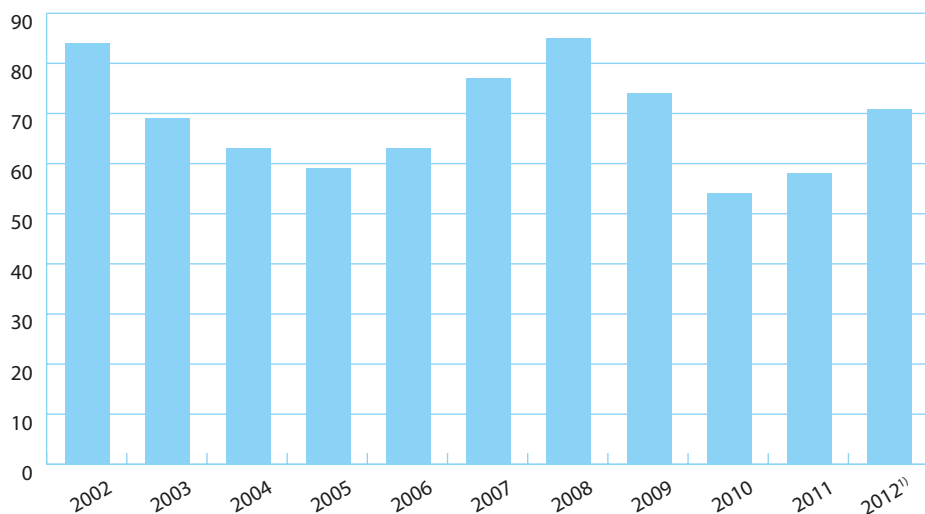
1000 NOK, tonnes

Country	Value	Quantity	Country	Value	Quantity
France	4 082 252	136 566	Italy	853 173	29 357
The Russian Federation	3 577 296	132 700	USA	850 364	16 163
Poland	3 227 102	116 067	Finland	825 529	31 705
Denmark	1 856 019	70 722	Ukraine	668 332	27 372
Sweden	1 415 421	38 298	Lithuania	631 065	24 154
Spain	1 388 099	49 158	Hong Kong	556 424	18 874
Japan	1 312 664	36 079	Vietnam	423 324	13 777
Great Britain	1 234 294	40 372	China	384 602	12 720
Germany	1 055 255	30 779	Israel	355 572	10 563
The Netherlands	950 831	33 613	Taiwan	352 744	11 362

Source: Statistics Norway, Norwegian Seafood Council

Sales turnover of Norwegian farmed rainbow trout 2002–2012

1000 tonnes, live weight



Source: Statistics Norway, Norwegian Seafood Council

1) Preliminary numbers for 2012 per June 2013



Norwegian export of farmed atlantic salmon 2002–2012

1000 NOK, tonnes

Year	Value	Quantity
2002	9 540 393	360 656
2003	10 046 042	414 422
2004	11 203 408	441 186
2005	13 573 378	476 516
2006	17 088 537	496 989
2007	17 438 400	606 711
2008	17 906 141	618 107
2009	23 623 729	710 433
2010	31 285 695	783 179
2011	29 183 133	838 307
2012	29 600 698	996 499

Source: Statistics Norway, Norwegian Seafood Council

Norwegian exports of farmed rainbow trout 2002–2012

1000 NOK, tonnes

Year	Value	Quantity
2002	1 362 092	62 077
2003	1 260 135	53 391
2004	1 199 648	47 051
2005	1 245 623	43 425
2006	1 314 955	38 304
2007	1 255 258	48 866
2008	1 821 537	73 727
2009	1 934 934	61 123
2010	1 608 106	39 842
2011	1 411 860	38 912
2012	1 695 891	55 781

Source: Statistics Norway, Norwegian Seafood Council

Norway's main export markets for farmed rainbow trout 2012

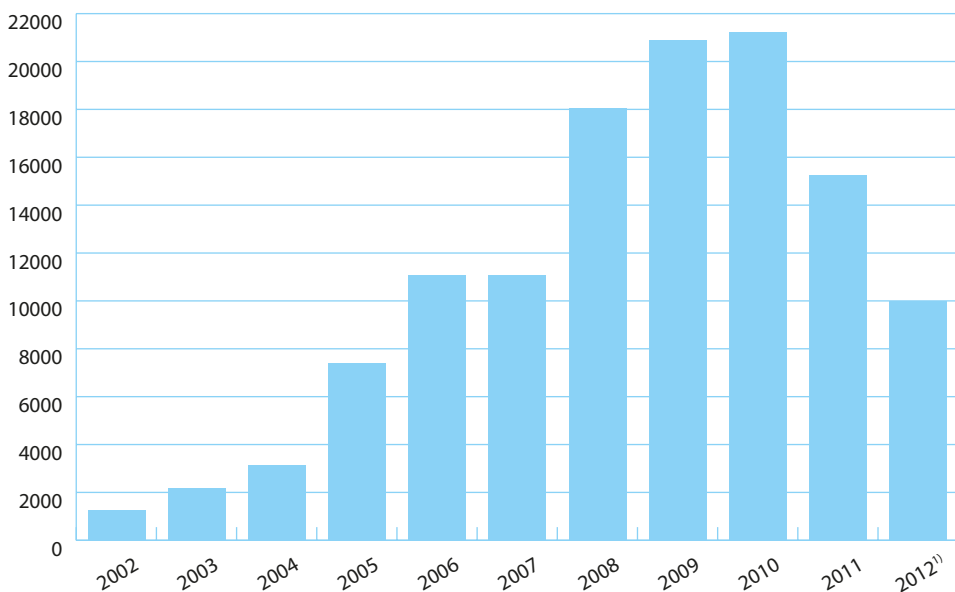
1000 NOK, tonnes

Country	Value	Quantity	Country	Value	Quantity
The Russian Federation	946 649	31 978	Germany	19 036	546
Japan	125 883	3 890	Canada	16 599	212
Belarus	117 172	3 751	Denmark	16 037	712
Ukraine	83 645	2 840	Sweden	12 179	236
Thailand	59 927	1 905	Finland	11 647	515
China	44 029	1 387	Lithuania	11 425	376
Poland	32 791	1 184	Singapore	11 137	332
Taiwan	29 159	933	Estonia	10 791	473
Hong Kong	28 083	916	Latvia	9 136	322
France	22 744	671	Malaysia	8 770	272

Source: Statistics Norway, Norwegian Seafood Council

Sales turnover of Norwegian farmed cod 2002–2012

1000 tonnes



Source: Statistics Norway, The Directorate of Fisheries

1) Preliminary numbers for 2012 per June 2013

Norwegian exports of farmed cod 2005–2012 *1000 NOK, tonnes*

Year	Value	Quantity
2005	89 655	2 543
2006	137 256	3 684
2007	165 243	4 056
2008	218 283	6 189
2009	275 400	9 464
2010	297 005	11 059
2011	233 763	8 117
2012	122 344	4 503



Source: Statistics Norway, Norwegian Seafood Council



Norway's main export markets for farmed cod 2012 *1000 NOK, tonnes*

Country	Value	Quantity
Denmark	26 844	996
Sweden	22 735	945
Germany	21 766	823
Spain	18 600	690
France	10 293	305
Belgium	6 740	215
Portugal	4 074	175
Abu Dhabi	2 623	56
Ukraine	2 065	61
Great Britain	1 800	71
Poland	1 392	58
Israel	1 214	33
Latvia	475	30
Japan	433	6
Total	122 344	4 503



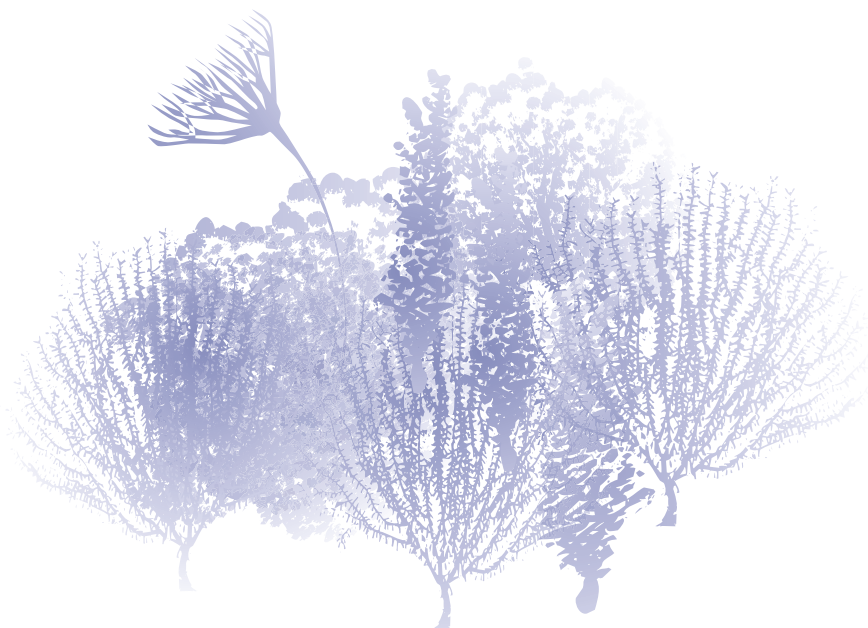
Source: Statistics Norway, Norwegian Seafood Council

Research and innovation

Norway is internationally leading 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 of the Institute of Marine Research 2012

Vessels	Cruisedays
G.O. Sars	280
Johan Hjort	208
G.M. Dannevig	178
Håkon Mosby	256
Dr. Fridtjof Nansen	278
Hans Brattström	212
Fangst	186
Helmer Hansen	61
Rented vessels	555
Total	2 214



Source: Institute of Marine Research

Research and development expenses and funding sources in the marine sector 2011

mill NOK and percentage

Fields of funding	Universities and colleges	Institutes	Industry and commerce	Total	%
Governmental funding	543	1 431	53	2 027	64
Private funding	52	425	685	1 162	36
Total	595	1 856	738	3 189	100

Source: NIFU, Statistics Norway



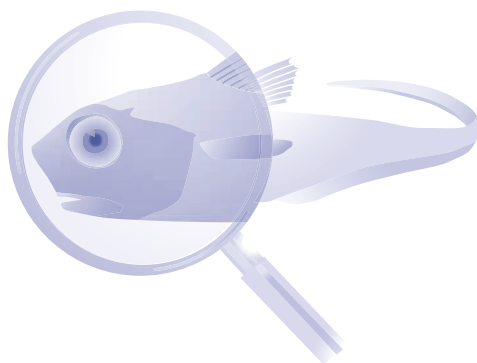
Research and development expenses and research area in marine sector 2011

mill NOK, percentage

Marine research and development area	U&C*	Institutes	Commerce	Total	%
Basic marine biology	129	220	24	372	12
Marine biodiversity	43	164	10	216	7
Oceanography, climate research, ecology, environmental toxicology, environmental poisons and eutrophication	126	381	8	515	16
Technology for surveillance and estimates of stocks for marine resources	8	123	1	132	4
Mathematical and numeric models for marine research	23	103	0	127	4
Bio economics and bio economical models	13	8	0	20	1
Aquaculture, combination of catches and fish-farming	69	472	446	988	31
Marine and maritime technology, fisheries, aquaculture and integrated transport solutions	13	102	41	155	5
Marine biotechnology	112	49	99	260	8
Food processing industry based on marine resources (processing, quality control and nutrition)	18	155	104	277	9
Market, organisation, framework conditions, society, politics and coastal management	41	79	6	126	4
Total	595	1 856	738	3 189	100

Source: NIFU

* Universities and colleges



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