



Facts about Fisheries and Aquaculture 2012



NORWEGIAN MINISTRY OF
FISHERIES AND COASTAL AFFAIRS

Contents

Norwegian seafood production – consumption and export	2
Fisheries and catches	8
Whitefish	15
Pelagic fish	17
Shrimp	20
Marine mammals	21
Aquaculture	22
Research and innovation	30



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 2006–2011

per person, kilos

	2006	2007	2008	2009	2010	2011
Purchased	17,9	17,5	17,1	17,2	17,2	16,1
Caught by consumer	1,0	1,1	1,2	1,1	0,74	0,4
Gift	0,3	0,2	0,3	0,3	0,17	0,2
Total consumption at home	19,2	18,8	18,6	18,6	18,1	16,8
Institutional household**	3,7	4,2	4,3	4,4	3,8	3,8*
Total consumption	22,9	23,0	22,8	23,0	21,4	16,8

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

* The figures are preliminary

** Hotels, restaurants etc.

Norwegian consumption of seafood purchased 2004–2011

per person, kilos

Species	2004	2005	2006	2007	2008	2009	2010	2011
Cod	2,46	2,59	2,71	2,63	2,79	2,88	2,69	2,53
Shrimp	2,23	2,20	2,00	2,00	1,74	1,74	1,66	1,52
Atlantil Salmon	1,79	1,93	1,88	2,06	2,17	2,18	2,16	2,47
Saithe	1,50	1,23	1,39	1,20	1,09	1,04	1,00	0,84
Herring	1,19	1,11	1,10	1,03	1,02	0,94	0,94	0,87
Mackerel	1,09	1,14	1,06	1,11	1,15	1,17	1,24	1,24
Rainbow Trout	0,71	0,68	0,70	0,76	0,82	0,76	0,54	0,54

Source: GfK-Norge, Norwegian Seafood Council

Seafood production 2010

tonnes

	Catches	Fish-farming	Total
Worldwide	88 609 798	59 557 871	148 167 668
Norway	2 675 292	1 008 010	3 683 302

Source: FAO, Norwegian Seafood Council

Seafood exports 2009

tonnes, 1000 USD

	Quantity	Value
Worldwide	32 138 660	96 062 431
Norway	2 580 040	7 105 500

Source: FAO, Norwegian Seafood Council

Largest seafood production nations – catches and fish-farming 2010

mill tonnes

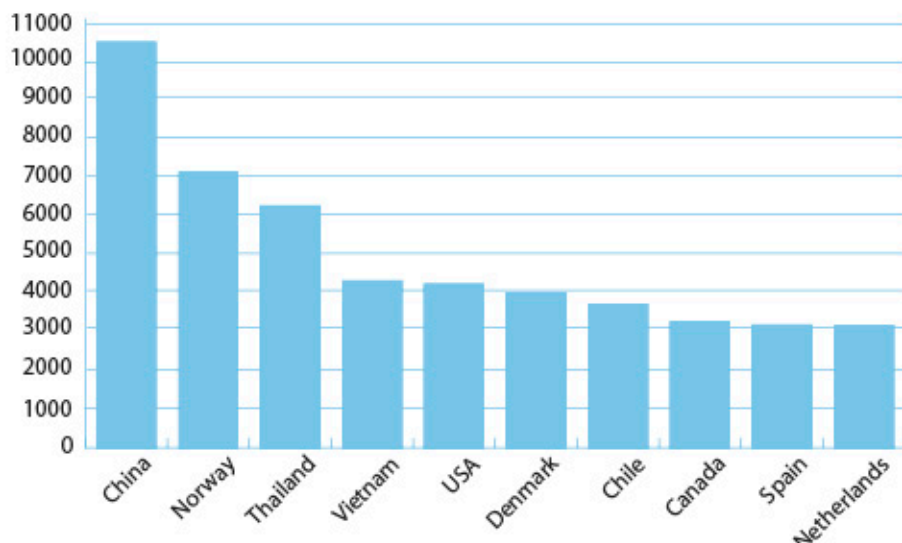
Country	Quantity
China	51,9
India	9,3
Indonesia	7,7
Vietnam	5,1
USA	4,8
Japan	4,8
Peru	4,4
The Russian Federation	4,2
Myanmar (Burma)	3,9
Norway	3,7
Chile	3,4
Philippines	3,4
Thailand	3,1
Bangladesh	3
Korea	2,2

Source: FAO, Norwegian Seafood Council



Largest seafood export nations 2009

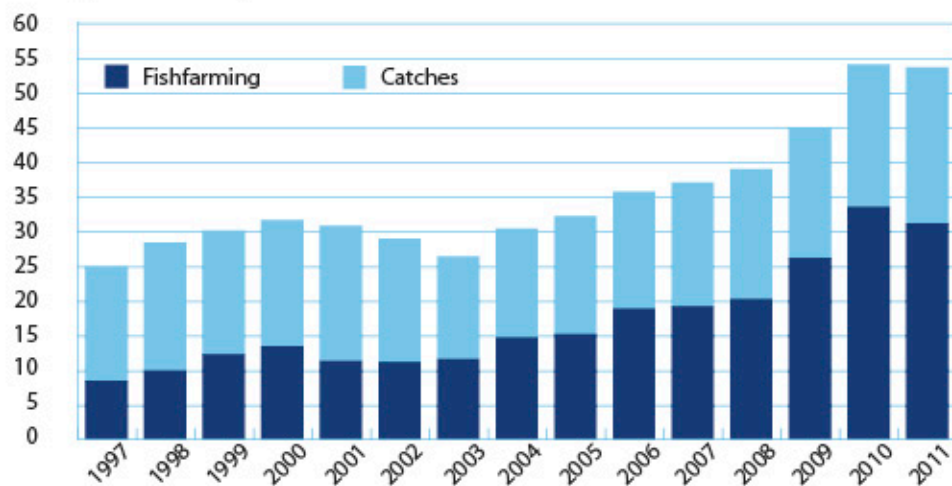
thousand USD



Source: FAO, Norwegian Seafood Council

Norwegian seafood exports 1997–2011

mrd NOK



Source: Statistics Norway, Norwegian Seafood Council

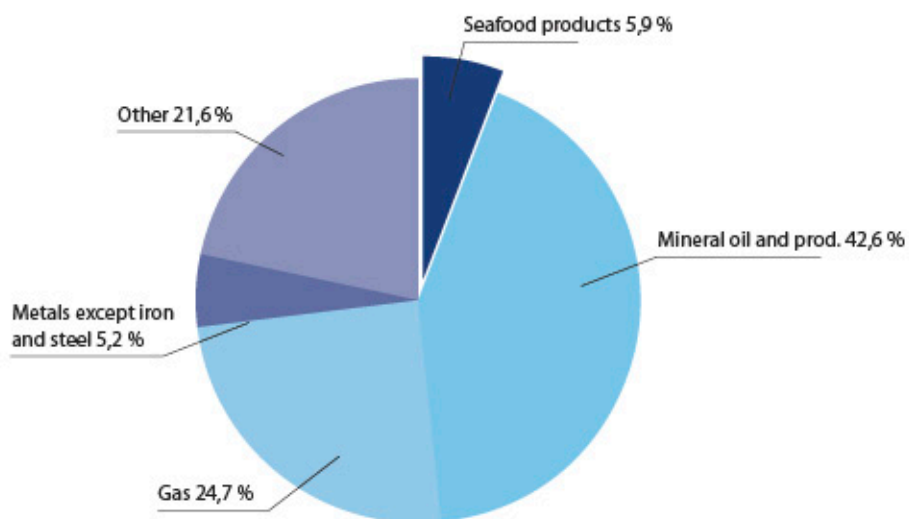
Main export markets for Norwegian seafood 2011*1000 NOK, tonnes*

Country	Value	Quantity
The Russian Federation	5 179 280	299 177
France	5 099 540	148 403
Denmark	3 597 571	176 349
Poland	3 524 274	135 541
Japan	2 871 447	139 899
China	2 524 537	166 632
Great Britain	2 405 003	93 161
Sweden	2 373 746	71 718
Germany	2 281 709	104 832
Portugal	2 257 036	57 493
Spain	1 915 995	59 540
The Netherlands	1 878 076	96 990
USA	1 681 082	39 179
Brazil	1 332 252	34 332
Italy	1 327 773	31 139
Ukraine	1 179 870	109 547
Finland	1 134 810	51 155
Lithuania	1 031 408	72 323
Hong Kong	578 010	17 224
South-Korea	567 258	23 936
Vietnam	560 595	19 887
Nigeria	540 555	54 804

Source: Statistics Norway, Norwegian Seafood Council



Fisheries and aquaculture's share of Norwegian exports 2011



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 vessels operated all-year-round 2011¹⁾

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	665	105	25	16	15	826
Troms	619	99	23	16	21	778
Nordland	1 018	241	86	46	35	1 426
Nord- og Sør-Trøndelag	361	57	5	4	7	434
Møre og Romsdal	423	74	8	16	81	602
Sogn og Fjordane	177	17	7	12	29	242
Hordaland	282	26	8	9	44	369
Rogaland	201	31	6	11	18	267
Andre fylker	379	61	10	14	6	470
Total	4 125	711	178	144	256	5 414

Source: Directory of Fisheries

1) Vessels registered by catch value with the Directory of Fisheries. Statistics are compiled on information from landings and contract notes sent from Fishermen's Sales Organisations to the Directorate of Fisheries per January 2012.

Number of fishermen 1940–2011

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
1995	17 160	6 491	23 651
2000	14 264	5 811	20 075
2001	13 674	5 221	18 896
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 ¹⁾	10 235	2 556	12 791

Vessels registered by catch value with the Directory of Fisheries. Statistics are compiled on information from landings and contract notes sent from Fishermen's Sales Organisations to the Directorate of Fisheries per January 2011.

1) The figures for 2010 are preliminary per 22.02.2012)

Number of fishermen 2011¹⁾

by county

County	Sum	Sole or main occupation	Secondary occupation
Finnmark	1 384	1061	323
Troms	1 770	1307	463
Nordland	2 957	2419	538
Nord-Trøndelag	321	219	102
Sør-Trøndelag	538	404	134
Møre og Romsdal	2 635	2289	346
Sogn og Fjordane	771	623	148
Hordaland	1 007	894	113
Rogaland	555	398	157
Vest-Agder	316	211	105
Aust-Agder	108	69	39
Telemark	74	57	17
Vestfold	81	58	23
Buskerud	19	17	2
Oppland	17	15	2
Hedmark	20	19	1
Akershus	34	33	1
Oslo	43	36	7
Østfold	141	106	35
Total	12 791	10 235	2 556

Source: The Directorate of Fisheries

1) The figures are preliminary per February 2012



Registered vessels 1990–2011

by county

County	1990	2000	2005	2009	2010	2011 ¹⁾
Finnmark	1 883	1 685	1 106	922	910	935
Troms	3 242	2 376	1 301	1 095	1 006	936
Nordland	4 200	3 342	2 011	1 631	1 580	1 583
Nord-Trøndelag	523	453	199	191	192	195
Sør-Trøndelag	921	463	293	304	305	303
Møre og Romsdal	1 946	1 471	883	707	700	689
Sogn og Fjordane	1 316	715	363	286	288	272
Hordaland	1 265	764	526	450	427	447
Rogaland	727	611	398	339	338	330
Vest-Agder	614	454	251	239	239	235
Aust-Agder	207	196	110	97	88	90
Telemark	116	97	75	58	56	53
Vestfold	136	141	64	61	66	64
Buskerud	21	10	5	5	4	6
Oppland	0	0	0	0	0	0
Hedmark	0	0	0	0	0	0
Oslo	12	14	3	5	5	4
Akershus	25	36	13	13	11	14
Østfold	237	189	121	103	95	96
Total	17 391	13 017	7 722	6 506	6 310	6 252

Source: The Directorate of Fisheries

1) The figures are preliminary per February 2012



Catches landed by Norwegian fishing vessels 2007–2011

live weight tonnes

Species	2007	2008	2009	2010	2011 ¹⁾
Herring	884 593	1 027 873	1 077 250	923 741	633 581
Sardines	12 933	4 453	11 469	14 647	12 357
Mackerel	131 698	121 496	121 229	233 957	208 080
Capelin	41 098	40 907	233 005	273 782	360 629
Blue whiting	539 589	418 289	225 996	194 318	20 540
Sandeel	55 857	88 203	64 711	143 682	112 192
Horse mackerel	5 425	12 244	72 619	12 655	21 135
Cod	217 789	215 444	243 659	283 481	340 234
Saithe	225 464	227 295	202 377	228 114	190 386
Haddock	73 286	74 299	106 324	124 696	159 557
Tusk	15 293	16 197	13 763	17 013	14 836
Ling	19 049	19 887	17 108	18 939	16 201
Redfish	13 722	8 117	8 296	13 339	9 771
Greenland halibut	10 163	9 017	10 176	9 789	10 233
Shrimp	37 401	30 741	27 325	22 123	24 467
Crab/ Red King Crab	9 782	10 494	10 585	7 680	7 104
Mussels	876	918	775	767	745
Antarctic krill	53 861	69 542	49 216	119 072	111 737
Seaweed and seatangle	145 429	154 215	*	*	152 382
Other	45 658	41 330	41 252	37 360	36 172
Total	2 538 966	2 590 961	2 537 135	2 679 155	2 442 339

Source: The Directorate of Fisheries

1) Statistics are compiled on information from landings and contract notes sent from Fishermen's Sales Organisations to the Directorate of Fisheries per 21.5.2012.

* Because of few units, this number will not be presented statistically.



Catches landed by Norwegian fishing vessels 2007–2011

1000 NOK

Species	2007	2008	2009	2010	2011 ¹⁾
Herring	2 224 846	2 805 632	2 686 017	2 746 236	3 332 168
Sardines	30 942	18 522	31 955	38 540	34 870
Mackerel	979 479	1 290 264	960 129	1 817 270	2 560 511
Capelin	95 091	98 599	378 513	529 686	786 105
Blue whiting	847 982	423 999	316 242	363 131	65 731
Sandeel	85 396	101 874	91 836	269 079	201 772
Horse mackerel	19 006	101 754	279 090	71 211	173 168
Cod	3 693 230	3 533 105	2 823 277	2 971 242	3 958 043
Saithe	1 264 863	1 266 539	1 207 616	1 603 338	1 491 710
Haddock	840 534	647 339	828 500	1 043 066	1 335 921
Tusk	130 399	128 873	97 010	137 381	119 916
Ling	245 860	239 273	174 790	203 343	181 195
Redfish	100 230	66 477	62 010	124 332	111 249
Greenland halibut	177 496	182 243	200 849	220 735	260 294
Shrimp	663 698	588 037	554 072	518 244	596 651
Crab/ Red king crab	128 356	177 343	167 901	135 525	199 228
Mussels	18 100	19 137	16 241	16 061	15 444
Antarctic krill	17 077	22 259	16 642	43 005	56 345
Seaweed and seatangle	26 678	33 461	*	*	28 222
Other	488 036	447 068	417 884	496 620	547 484
Total	12 077 300	12 191 798	11 310 574	13 348 046	16 056 027

Source: The Directorate of Fisheries.

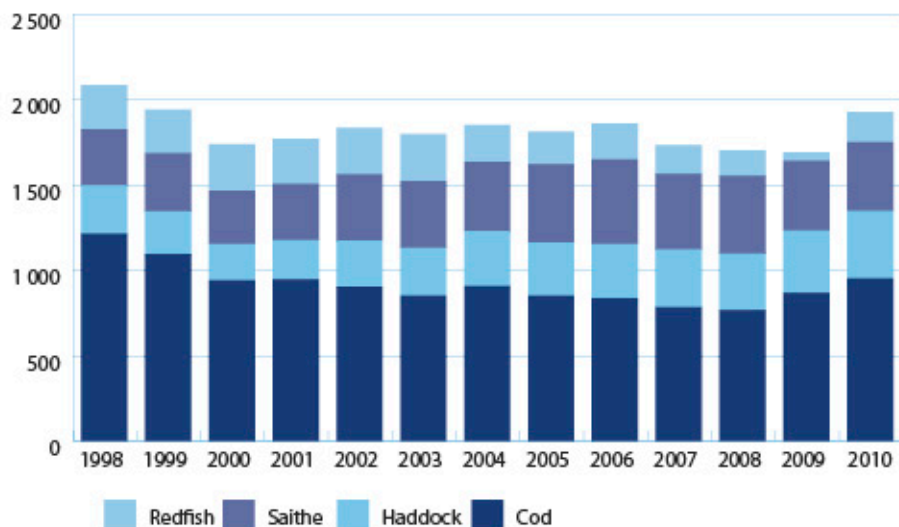
1) Statistics are compiled on information from landings and contract notes sent from Fishermen's Sales Organisations to the Directorate of Fisheries per 21.05.2012.

* Because of few units, this number will not be presented statistically.

Whitefish

Catches of whitefish in the North Atlantic 1998–2010

1000 tonnes



Source: FAO, Norwegian Seafood Council

Norwegian exports of whitefish 2011 1000 NOK, tonnes

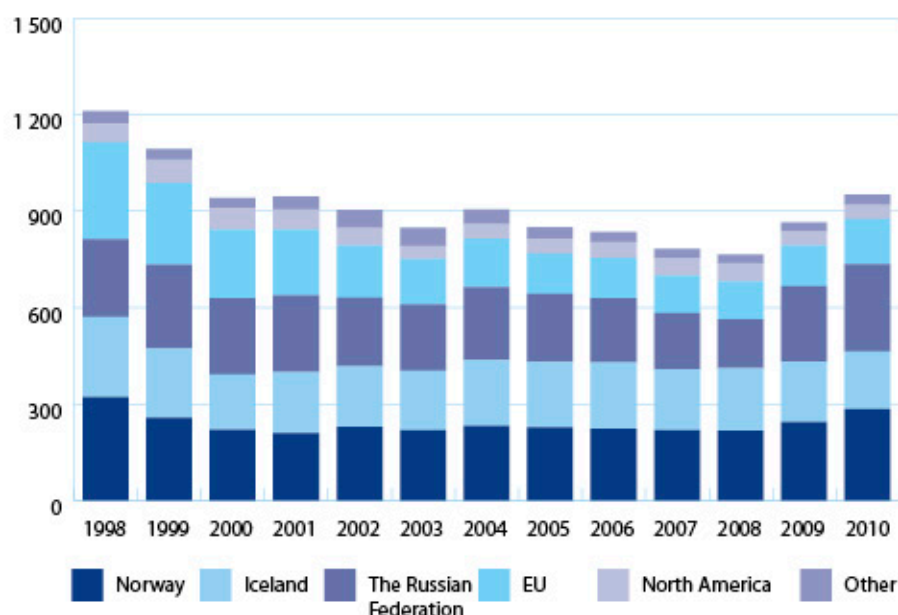


Species	Value	Quantity
Cod	6 123 265	165 536
Saithe	2 152 478	101 704
Haddock	1 545 826	98 050
Greenland halibut	317 460	9 346
Ling	292 027	7 209
Tusk	180 827	5 387
Greenland halibut	151 041	2 164
Monkfish	132 610	2 553
Other	329 260	16 758
Total	11 224 793	408 708

Source: Statistics Norway, Norwegian Seafood Council

Catches of cod in the North-Atlantic 1998–2010

1000 NOK



Source: FAO, Norwegian Seafood Council

Norway's main export markets for cod 2011

1000 NOK, tonnes

Country	Value	Quantity	Country	Value	Quantity
Portugal	1 936 282	47 525	Poland	100 657	5 148
Denmark	645 653	20 185	Germany	98 621	2 886
Brazil	581 415	9 788	The Netherlands	66 568	2 624
Italy	475 850	5 087	Greece	64 785	1 779
Great Britain	403 843	13 443	Lithuania	49 843	2 582
France	390 546	8 419	U S A	48 537	815
China	369 092	19 257	Switzerland	44 104	758
Spain	294 496	9 490	Belgium	35 354	877
Sweden	218 191	6 289	Canada	32 059	1 268
Nigeria	142 153	4 332	Croatia	26 292	218

Source: Statistics Norway, Norwegian Seafood Council

Pelagic fish

Norwegian exports of pelagic fish 2011

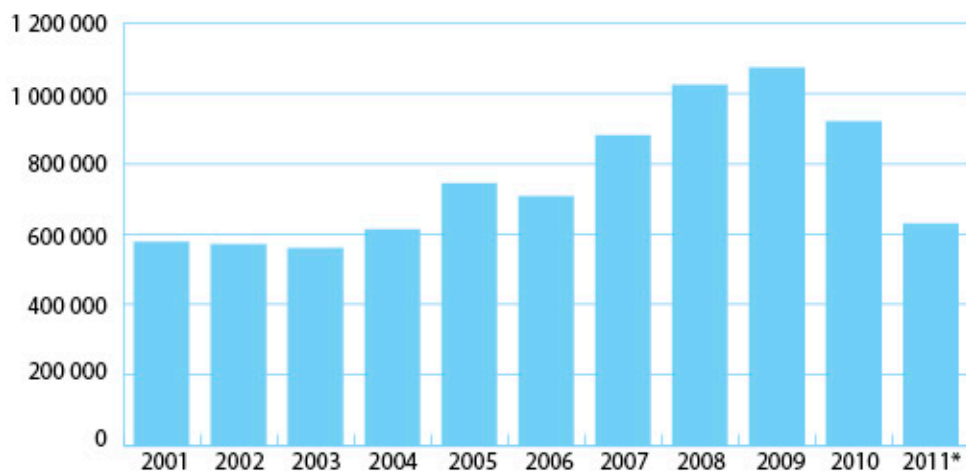
1000 NOK, tonnes

Species	Value	Quantity
Herring	4 158 679	458 202
Mackerel	3 456 134	244 444
Capelin	545 630	105 336
Horse Mackerel	205 994	19 956
Other pelagic fish (without Tuna)	25 965	3 165
Blue whiting	549	109
Yellowfin tuna	79	1
Anchovy	73	0
Total	8 393 103	831 213

Source: Statistics Norway, Norwegian Seafood Council

Norwegian catches of herring

live weight tonnes



Source: The Directorate of Fisheries

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

* The figures are preliminary per May 2012

Norway's main export markets for herring 2011

1000 NOK, tonnes

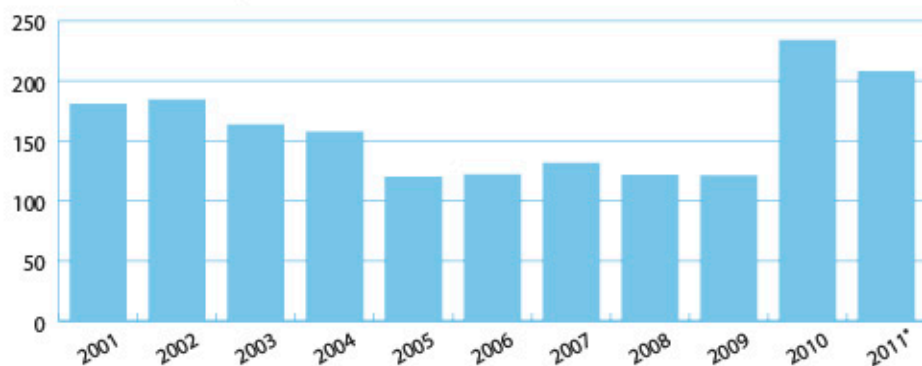
Country	Value	Quantity	Country	Value	Quantity
The Russian Federation	908 711	111 634	Egypt	94 258	16 325
Germany	756 527	61 384	Kazakhstan	74 667	10 699
Ukraine	454 158	61 456	Great Britain	61 771	7 886
The Netherlands	311 487	25 541	France	48 316	4 067
Poland	291 062	24 122	Finland	47 266	2 839
Lithuania	247 920	31 741	Japan	38 072	3 957
Nigeria	243 658	44 719	Latvia	34 777	5 113
Sweden	142 051	8 795	Israel	26 182	2 594
Denmark	120 188	8 487	Moldova	19 125	2 708
Belarus	107 172	9 139	Belgium	15 932	1 163

Source: Statistics Norway, Norwegian Seafood Council



Catches of mackerel by Norwegian fishing vessels

live weight 1000 tonnes



Source: The Directorate of Fisheries

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

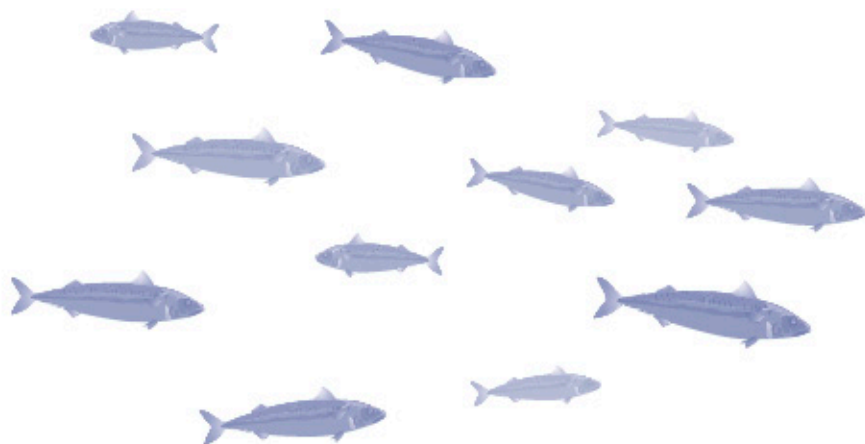
* The figures are preliminary per May 2012

Norway's main export markets for mackerel 2011

1000 NOK, tonnes

Country	Value	Quantity
Japan	1 154 029	75 110
China	777 071	56 895
South-Korea	234 447	15 009
The Russian Federation	228 100	18 183
Turkey	207 880	19 205
The Netherlands	149 000	10 872
Ukraine	132 664	9 401
Sweden	61 369	2 521
Poland	59 231	5 807
Taiwan	55 094	3 001
USA	55 070	2 849
Lithuania	42 971	3 459
Thailand	36 841	2 409
Germany	29 559	1 783
Vietnam	27 153	1 950
Nigeria	26 576	3 090
Belarus	17 555	1 409
Singapore	16 517	992
Kazakhstan	16 377	1 128
Great Britain	15 924	1 344

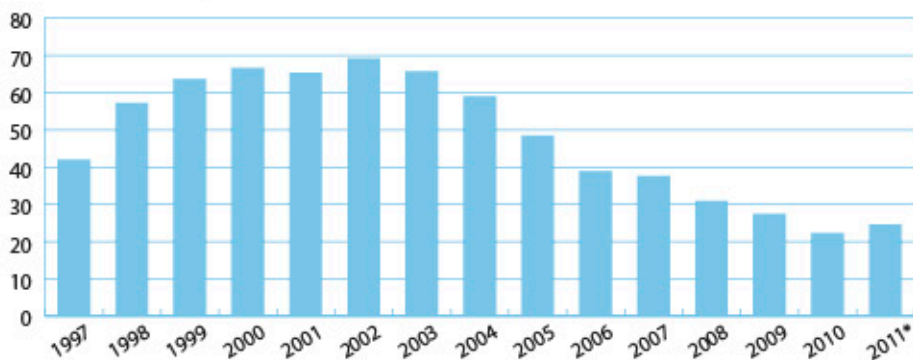
Source: Statistics Norway, Norwegian Seafood Council



Shrimp

Catches of shrimp by Norwegian fishing vessels

live weight tonnes



Source: The Directorate of Fisheries

Statistics are compiled on information from landings and contract notes sent from Fishermen's Sales Organisations to the Directorate of Fisheries per May 2012

* The figures are preliminary per May 2012



Norway's main export markets for shrimp 2011

1000 NOK, tonnes

Country	Value	Quantity	Country	Value	Quantity
Sweden	223 591	4 158	Ireland	2 408	54
Great Britain	137 287	2 825	Germany	2 384	38
Finland	94 131	1 894	Turkey	1 954	35
Iceland	60 872	3 536	South-Korea	1 921	43
Denmark	27 753	672	Estonia	1 701	34
France	20 912	389	Japan	1 131	22
Italy	11 749	215	The Netherlands	1 117	19
Switzerland	5 169	90	China	737	50
Spain	3 271	56	Abu Dhabi	454	8
Singapore	2 563	54	South Africa	364	4

Source: Statistics Norway, Norwegian Seafood Council

Marine Mammals

Norwegian sealing 1980–2011

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
2007	62	7 828	6 153
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

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

Norwegian coastal seal hunt 1999–2011

Year	Harbour seal	Gray seal
1999	308	130
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

Source: The Directorate of Fisheries

Norwegian minke whaling 1999–2011

Year	Wessels	Animals
1999	34	589
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

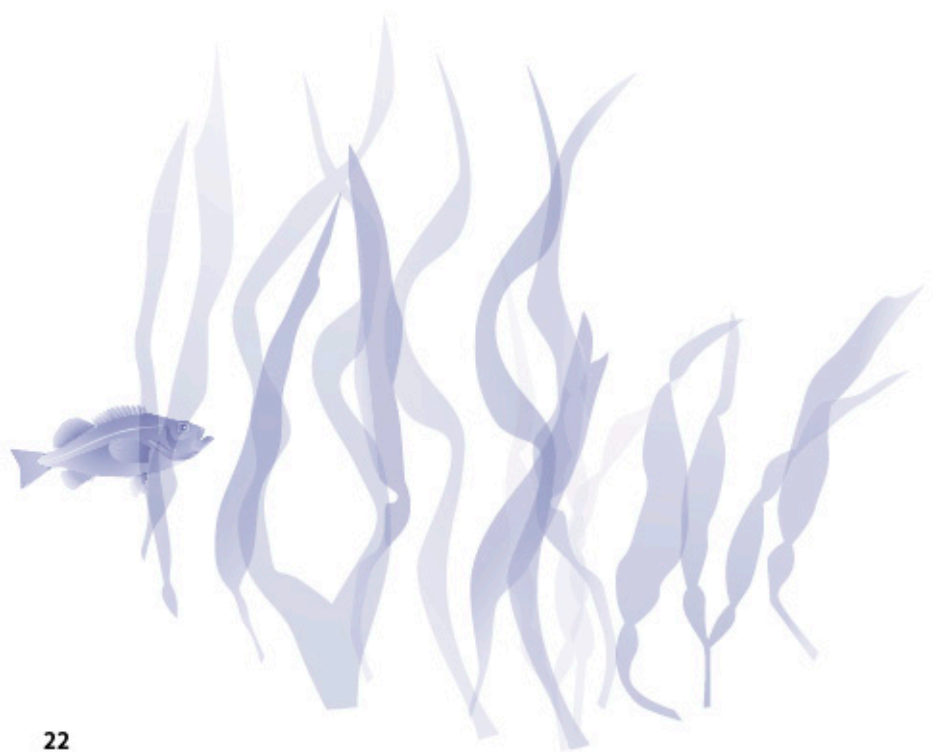
Source: The Directorate of Fisheries

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 almost half 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.

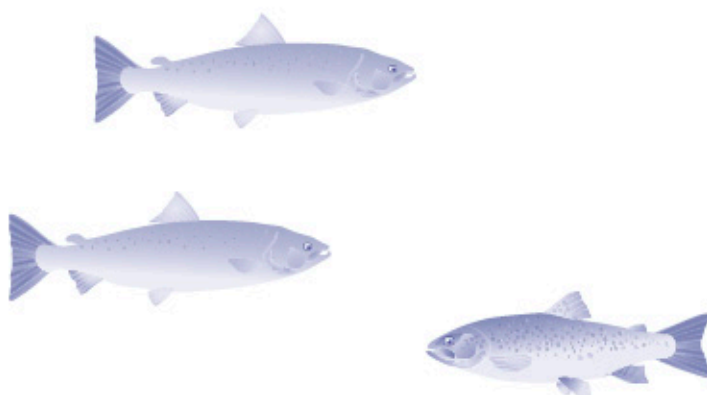


Number of licences for atlantic salmon, rainbow trout and trout 1995 and 2011

by county

County	1995				2011			
	Smolt	Farmed fish	Brood stock	R&D	Smolt	Farmed fish	Brood stock	R&D
	Number	Number	Number	Number	Number	Number	Number	Number
Finnmark	3	33	1	1	3	90	0	1
Troms	22	65	1	1	11	94	1	3
Nordland	34	131	2	6	32	161	4	7
Nord-Trøndelag	18	55	1	2	16	70	0	3
Sør-Trøndelag	26	76	2	2	20	93	6	5
Møre og Romsdal	51	95	14	4	36	110	6	4
Sogn og Fjordane	39	71	2	1	23	89	3	1
Hordaland	80	135	9	6	61	157	5	7
Rogaland	29	52	4	2	20	61	5	10
Vest-Agder	6	12	0	0	3	16	0	0
Aust-Agder	2	6	0	0	1	2	1	0
Other counties	34	76	5	3	21	47	3	2
Total	344	807	41	28	247	990	34	43

Source: The Directorate of Fisheries per 26.01.2012



Number of licences* for other species 1995 and 2011 *by county*

County	1995	2011
Finnmark	39	26
Troms	24	20
Nordland	71	141
Nord-Trøndelag	15	19
Sør-Trøndelag	27	15
Møre og Romsdal	41	60
Sogn og Fjordane	23	51
Hordaland	92	71
Rogaland	30	46
Vest-Agder	8	5
Aust-Agder	2	6
Other counties	12	7
Total	384	467

Source: The Directorate of Fisheries

* Other species but atlantic salmon and rainbow trout



Number of licences for other species 1995 and 2011 *species*

Species	1995	2011
Haddock	–	20
Halibut	39	89
Hake	–	9
Marin	75	–
Turbot	3	35
Char	45	41
Wolffish	–	58
Cod	200	329
Eel	14	16
Other	8	373
Total	384	970

Source: The Directorate of Fisheries per 26.01.2012

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 2011*by county*

County	1995	2011
Finnmark	3	7
Troms	6	6
Nordland	45	47
Nord-Trøndelag	22	35
Sør-Trøndelag	30	24
Møre og Romsdal	36	22
Sogn og Fjordane	8	34
Hordaland	26	79
Rogaland	19	26
Vest-Agder	1	8
Aust-Agder	4	24
Other counties	13	23
Total	213	335

Source: The Directorate of Fisheries per 26.01.2012

Number of licences for shellfish 2005–2011*species*

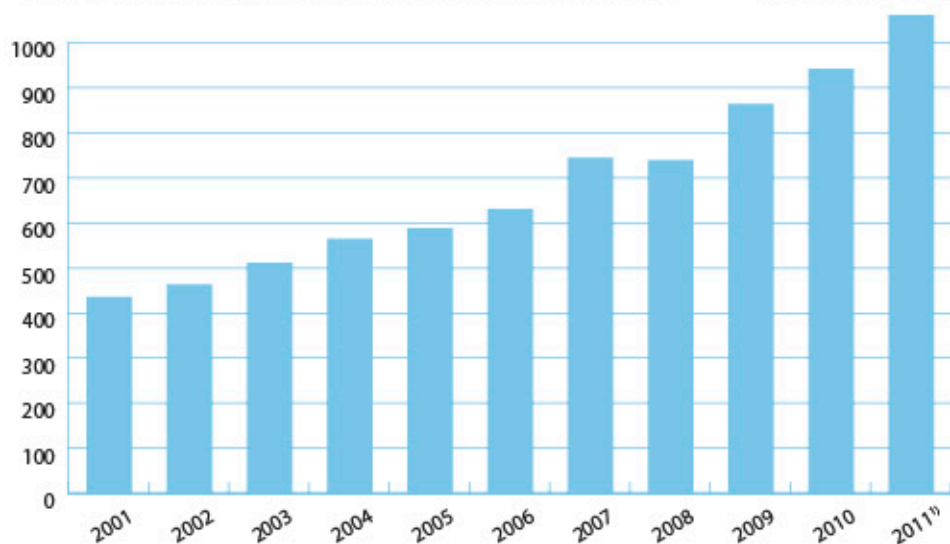
Species	2005	2006	2007	2008	2009	2010	2011
Mussel	668	580	531	417	351	283	247
Lobster	18	22	22	27	29	25	28
Scallop	114	104	97	98	90	78	73
Sea porcupine	26	23	21	16	26	7	8
Oyster	130	117	108	117	116	95	90
Other	109	98	99	132	117	134	156
Total	1 065	944	878	807	729	622	602

Source: The Directorate of Fisheries per 26.01.2012

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 2001–2011

live weight 1000 tonnes



Source: Statistics Norway, The Directorate of Fisheries

1) The figures for 2011 are preliminary per June 2012



Norway's main export markets for farmed atlantic salmon 2011

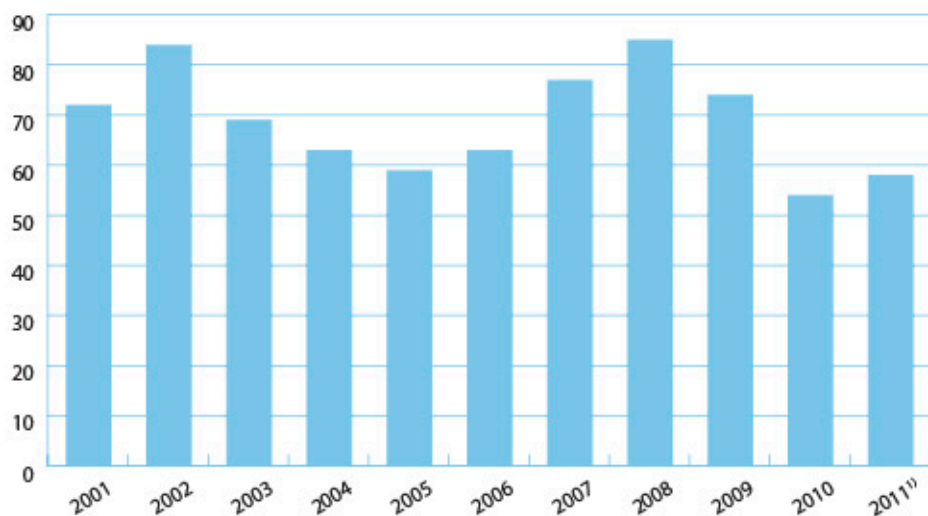
1000 NOK, tonnes

Country	Value	Quantity	Country	Value	Quantity
France	4 357 009	121 996	The Netherlands	1 052 603	30 312
The Russian Federation	3 063 556	103 899	Finland	891 008	29 481
Poland	2 857 974	88 055	Italy	786 056	22 981
Denmark	2 072 797	67 265	Lithuania	594 916	19 059
Spain	1 514 412	44 468	Hong Kong	555 053	15 853
Sweden	1 417 585	34 211	Vietnam	500 357	16 077
Japan	1 238 176	27 968	Israel	425 809	10 807
Germany	1 201 063	29 933	Ukraine	423 483	18 148
U S A	1 171 835	19 039	South-Korea	306 536	7 634
Great Britain	1 143 938	31 411	Taiwan	295 546	8 770

Source: Statistics Norway, Norwegian Seafood Council

Sales turnover of Norwegian farmed rainbow trout 2001–2011

1000 tonnes, live weight



Source: Statistics Norway, Norwegian Seafood Council

1) The figures for 2011 are preliminary per June 2012



Norwegian export of farmed atlantic salmon 2001–2011

1000 NOK, tonnes

Year	Value	Quantity
2001	10 003 588	338 594
2002	9 537 958	360 617
2003	10 042 778	414 376
2004	11 199 414	441 132
2005	13 570 065	476 470
2006	17 083 827	496 934
2007	17 434 334	606 666
2008	17 901 562	618 056
2009	23 622 235	710 419
2010	31 282 969	782 772
2011	29 196 627	838 731

Source: Statistics Norway, Norwegian Seafood Council

Norwegian exports of farmed rainbow trout 2001–2011

1000 NOK, tonnes

Year	Value	Quantity
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	1 314 918	38 304
2007	1 255 237	48 866
2008	1 821 128	73 722
2009	1 934 934	61 123
2010	1 608 933	39 867
2011	1 413 760	38 964

Source: Statistics Norway, Norwegian Seafood Council

Norway's main export markets for farmed rainbow trout 2011

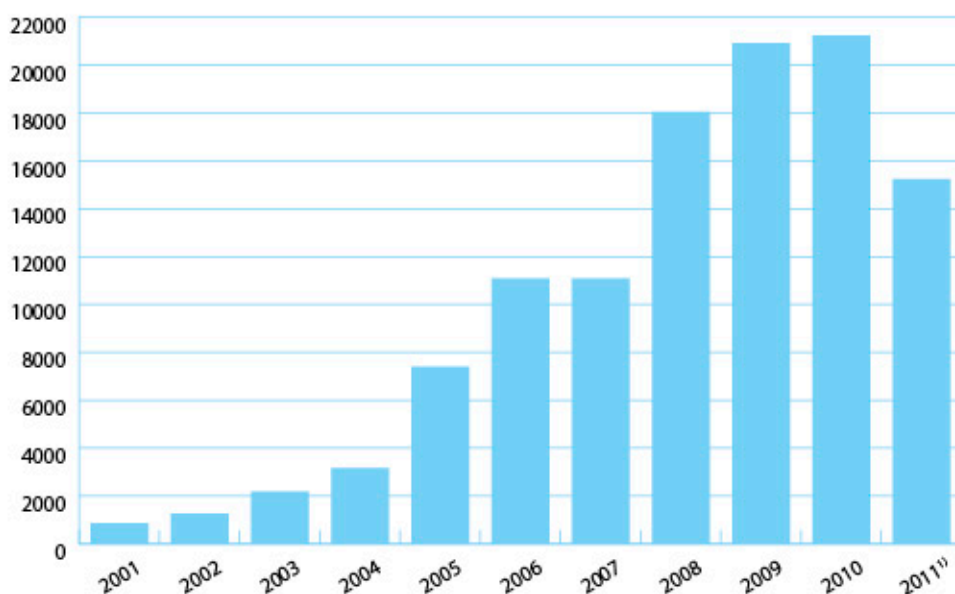
1000 NOK, tonnes

Country	Value	Quantity	Country	Value	Quantity
The Russian Federation	680 942	19 955	Sweden	18 786	321
Japan	134 946	3 240	Germany	16 226	371
China	106 034	2 596	Vietnam	11 651	365
Belarus	75 280	2 006	Estonia	9 804	259
Ukraine	63 647	1 797	Canada	9 582	112
Thailand	47 305	1 288	South-Korea	9 359	265
Poland	44 348	1 192	Denmark	9 189	283
Finland	36 589	1 127	Kazakhstan	8 131	237
Taiwan	27 436	725	Malaysia	7 855	209
France	18 818	502	Turkey	7 776	196

Source: Statistics Norway, Norwegian Seafood Council

Sales turnover of Norwegian farmed cod 2001–2011

1000 tonnes



Source: Statistics Norway, The Directorate of Fisheries

1) The figures are preliminary per June 2012

Norwegian exports of farmed cod 2004–2011 *1000 NOK, tonnes*

Year	Value	Quantity
2004	31 299	865
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	294 823	11 019
2011	233 141	8 096



Source: Statistics Norway, Norwegian Seafood Council



Norway's main export markets for farmed cod 2011 *1000 NOK, tonnes*

Country	Value	Quantity
Spain	54 817	2 076
Sweden	37 358	1 578
Denmark	36 530	1 166
Germany	36 380	1 310
France	36 236	1 063
Belgium	15 044	365
The Netherlands	3 503	147
Abu Dhabi	2 590	56
Poland	1 812	85
Ukraine	1 671	47
Israel	1 320	40
The Russian Federation	1 037	31
U S A	1 007	35
Switzerland	593	7
Total	233 141	8 096



Source: Statistics Norway, Norwegian Seafood 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 of the Institute of Marine Research 2011

Vessels	Cruisedays
G.O. Sars	223
Johan Hjort	295
G.M. Dannevig	142
Håkon Mosby	276
Dr. Fridtjof Nansen	284
Hans Brattström	208
Fangst	169
Helmer Hansen	74
Other vessels	598
Total	2 269



Source: Institute of Marine Research

Research and development expenses and funding sources in the marine sector 2009.

mill NOK and percentage

Fields of funding	Universities and colleges	Institutes	Industry and commerce	Total	%
Governmental funding	456	1 282	50	1 788	63
Private funding	48	396	616	1 060	37
Total	504	1 677	666	2 848	100

Source: NIFU Step



Research and development expenses and research area in marine sector 2009

mill NOK and percentage

Marine research and development area	UoH	Institutes	Commerce	Total	%
Basic marine biology	96	188	17	301	11
Marine biodiversity	42	179	12	232	8
Oceanography, climate research, ecology, environmental toxicology, environmental poisons and eutrophication	91	319	7	417	15
Technology for surveillance and estimates of stocks for marine resources	14	119	1	134	5
Mathematical and numeric models for marine research	41	135	0	176	6
Bio economics and bio economical models	5	2	0	7	0
Aquaculture, combination of catches and fish-farming	68	427	363	858	30
Marine and maritime technology, fisheries, aquaculture and integrated transport solutions	13	73	49	135	5
Marine biotechnology	84	45	96	225	8
Food processing industry based on marine resources (processing, technics, hygienics, logistics, quality control and nutrition)	15	98	111	224	8
Market, organisation, framework conditions, society, politics and coastal management	35	93	11	139	5
Total	504	1 677	666	2 848	100

Source: NIFU



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