



FISKERIDIREKTORATET

Nøkkeltall fra norsk havbruksnæring

2016

Key figures from aquaculture
industry



Livet i havet – vårt felles ansvar



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Foreword:

In this publication, the Norwegian Directorate of Fisheries presents key figures from the Norwegian Aquaculture industry in 2016. The Directorate of Fisheries provide main part of the statistical material in this report, but some statistics is by external sources.

The report contains information about all species farmed in the Norwegian Aquaculture industry. Information is in four groups. One group contains information about Atlantic salmon and Rainbow trout. Another group contains information about other marine fish species, a third group contains information about molluscs, crustaceans and echinoderms and finally the fourth group contains information about algae.

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Licences

Source: The Directorate of Fisheries

Figure 1. The number of licences 2006-2016

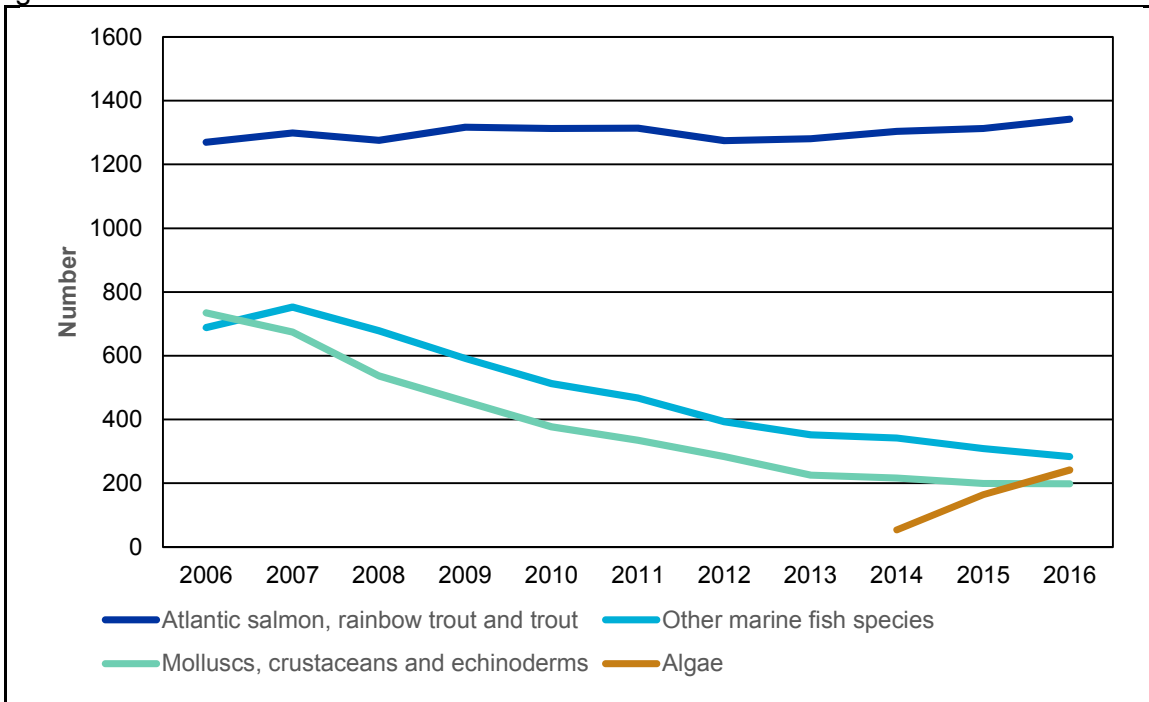
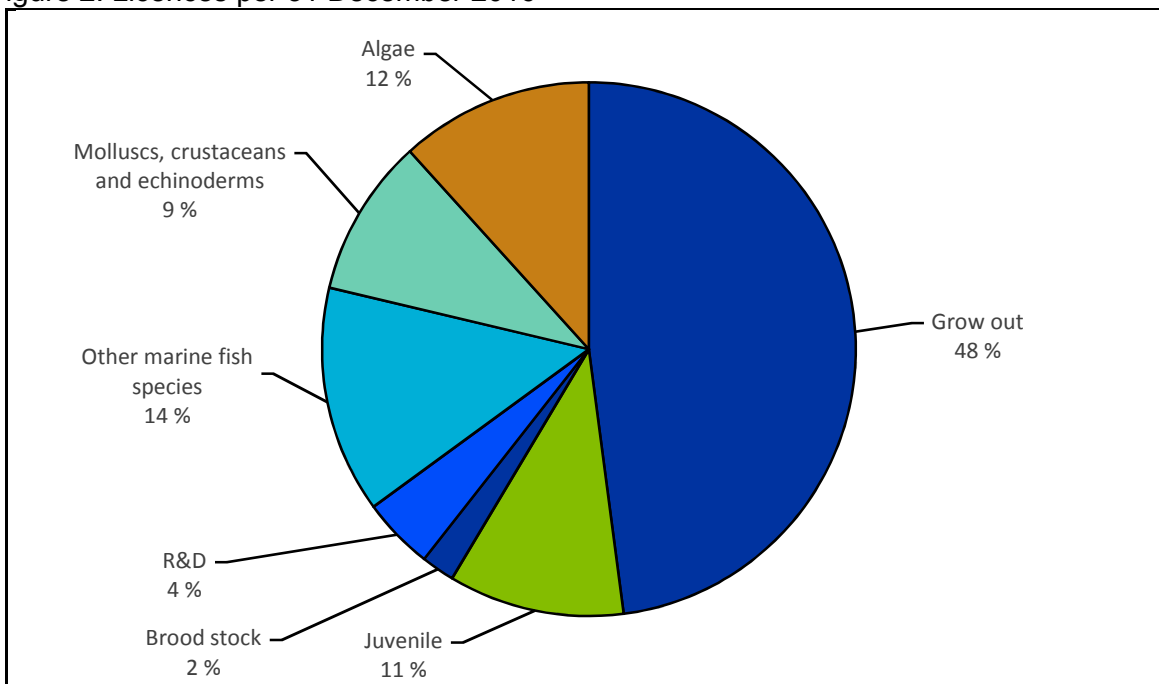


Figure 2. Licences per 31 December 2016



Be aware that grow out production, juvenile, brood stock and research (R&D) are licences for production of Atlantic salmon, rainbow trout and trout.

Table 1. The number of licenses per 31 December 2016, Atlantic salmon, rainbow trout and trout

County	Juvenile Number of licenses	Grow out Number of licenses	Brood stock Number of licenses	R & D ¹⁾ Number of licenses
Finnmark	6	92	0	4
Troms	13	103	2	6
Nordland	32	168	8	20
Nord-Trøndelag	16	71	2	11
Sør-Trøndelag	18	96	7	5
Møre og Romsdal	32	114	6	7
Sogn og Fjordane	20	87	3	4
Hordaland	56	164	6	15
Rogaland	18	59	5	15
Vest-Agder	3	16	0	0
Aust-Agder	1	3	1	0
Øvrige Fylker	5	17	2	3
Total	220	990	42	90

1) Research (R&D)

Table 2. The number of licenses per 31 December 2016, other marine fish species, molluscs, crustaceans, echinoderms, sea ranching and algae

County	Fish Number of licenses	Molluscs, crustaceans and echinoderms Number of licenses	Sea Ranching Number of licenses	Algae Number of licenses
Finnmark	16	5	0	0
Troms	18	8	0	0
Nordland	45	33	2	108
Nord-Trøndelag	19	23	0	11
Sør-Trøndelag	20	18	3	7
Møre og Romsdal	32	11	1	1
Sogn og Fjordane	25	9	0	33
Hordaland	55	39	0	81
Rogaland	38	19	4	1
Vest-Agder	4	4	2	0
Aust-Agder	3	22	0	0
Øvrige Fylker	9	7	0	0
Total	284	198	12	242

Table 3. The number of licenses per 31 December 2016 for other marine fish species, molluscs, crustaceans and echinoderms and algae distributed by species

Other marine fish species		Molluscs, crustaceans and echinoderms		Algae	
Species	No.	Species	No.	Species	No.
Atlantic haddock	19	Blue mussel	134	Sea belts	41
Atlantic halibut	71	European lobster	24	Tangle	36
Turbot	119	Great Atlantic scallop	42	Dabber locks	38
Wrasse	28	Sea urchin	18	Dulse	27
Lumpfish	65	Flat and cupped oyster	51	Other species	132
Arctic char	42	Other species	178		
Wolf fish	54				
Atlantic cod	113				
Other species	327				

The licenses for marine fish species, molluscs, crustaceans and echinoderms are comprised of several species. In Table 3. licenses are counted several times. The total number of licenses in Table 3 is therefore higher than the total number presented in Table 2.

2. Sites

Source: The Directorate of Fisheries

Table 4. The number of sites in seawater per 31 December 2016

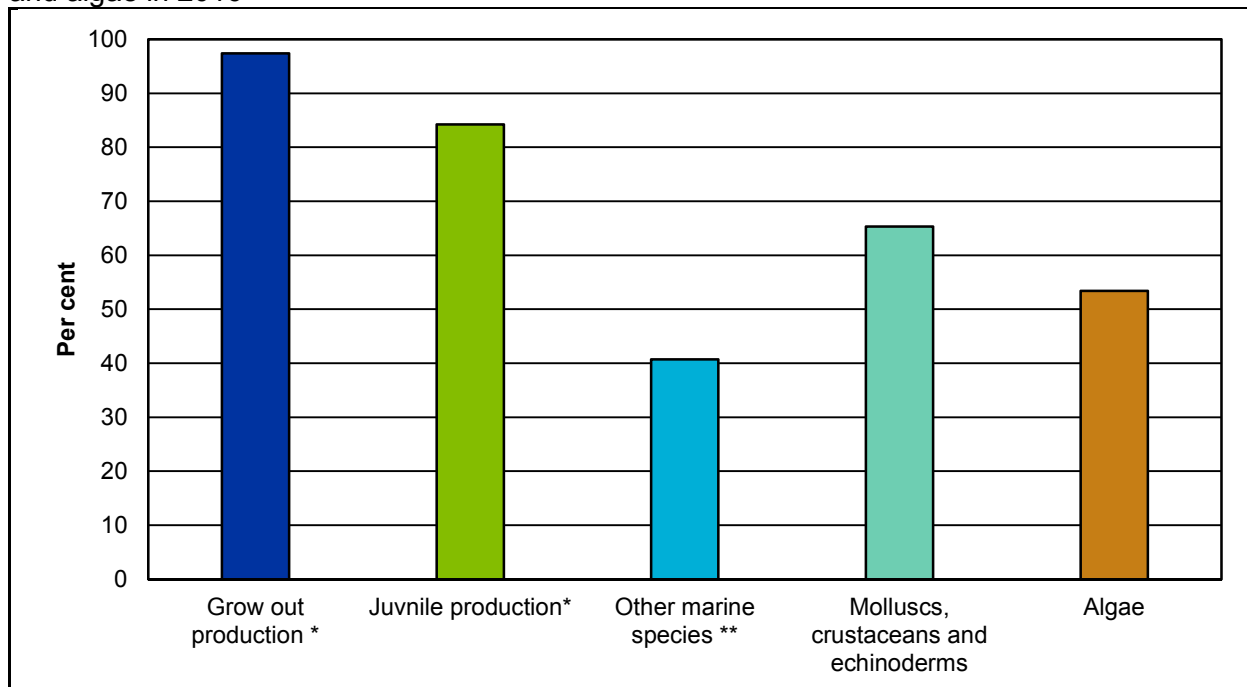
	Atlantic salmon and rainbow trout	Other marine fish species	Molluscs, crustaceans and echinoderms
County	Number	Number	Number
Finnmark	75	4	0
Troms	101	7	3
Nordland	213	15	29
Nord-Trøndelag	61	5	21
Sør-Trøndelag	95	3	16
Møre og Romsdal	88	7	3
Sogn og Fjordane	85	8	9
Hordaland	180	8	37
Rogaland	68	10	7
Vest-Agder	10	0	3
Aust-Agder	2	0	21
Øvrige fylker	0	2	1
Total	978	69	150

3. Licenses and companies with production

Source: The Directorate of Fisheries

Preliminary figures for 2016 (per May 2017)

Figure 3. The percentage of licenses with production of fish, molluscs, crustaceans, echinoderms and algae in 2016



* Atlantic salmon, rainbow trout and trout

** Grow out production

Table 5. The number of companies with production of fish in 2016

County	Atlantic salmon, rainbow trout and trout		Other marine fish species	
	Grow out	Juvenile	Grow out	Juvenile
Finnmark	5	4	2	2
Troms	18	8	1	4
Nordland	32	15	13	9
Nord-Trøndelag	10	10	4	3
Sør-Trøndelag	8	8	1	1
Møre og Romsdal	15	18	5	7
Sogn og Fjordane	15	12	5	2
Hordaland	30	26	5	8
Rogaland	16	10	5	2
Øvrige fylker	13	6	7	3
Total	162	117	48	41

Table 6. The number of companies with production of molluscs, crustaceans, echinoderms and algae in 2016

County	Molluscs, crustaceans and echinoderms	Algae
Finnmark	0	0
Troms	3	0
Nordland	6	4
Nord-Trøndelag	8	1
Sør-Trøndelag	4	2
Møre og Romsdal	4	0
Sogn og Fjordane	4	1
Hordaland	16	3
Rogaland	5	0
Øvrige fylker	7	0
Total	57	11

4. Employment

Source: The Directorate of Fisheries

Preliminary figures for 2016 (per May 2017)

Figure 4. Number of employees working with production of fish, molluscs, crustaceans and echinoderms 2006-2016

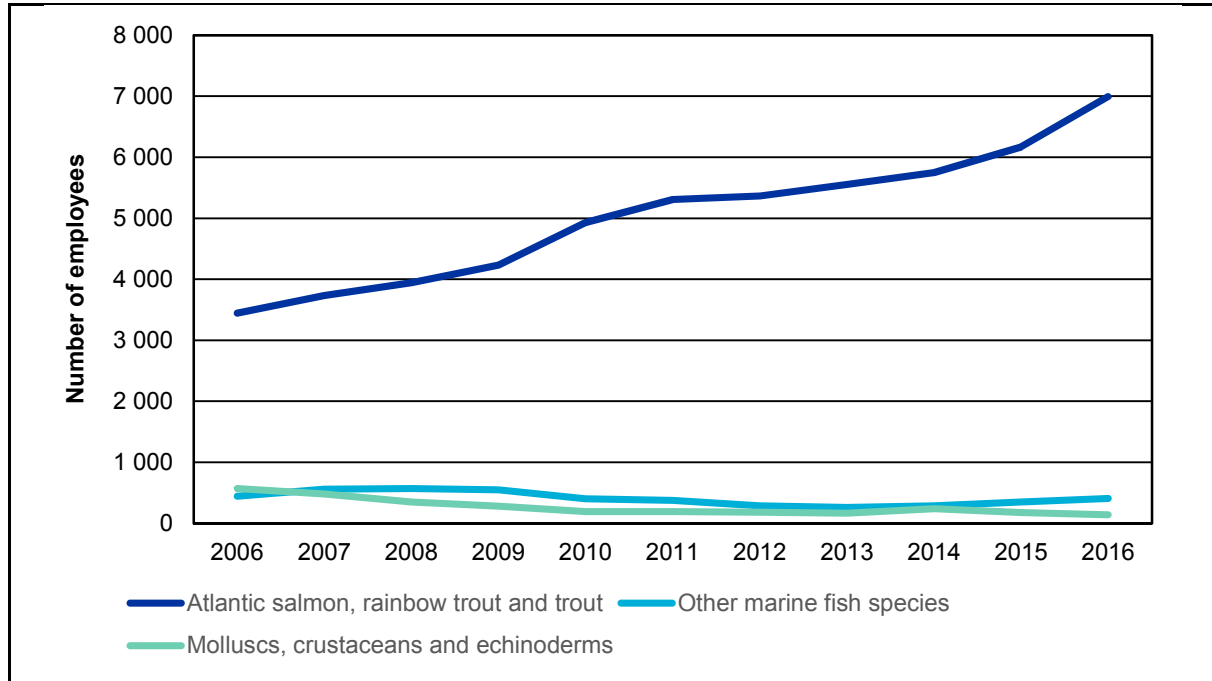
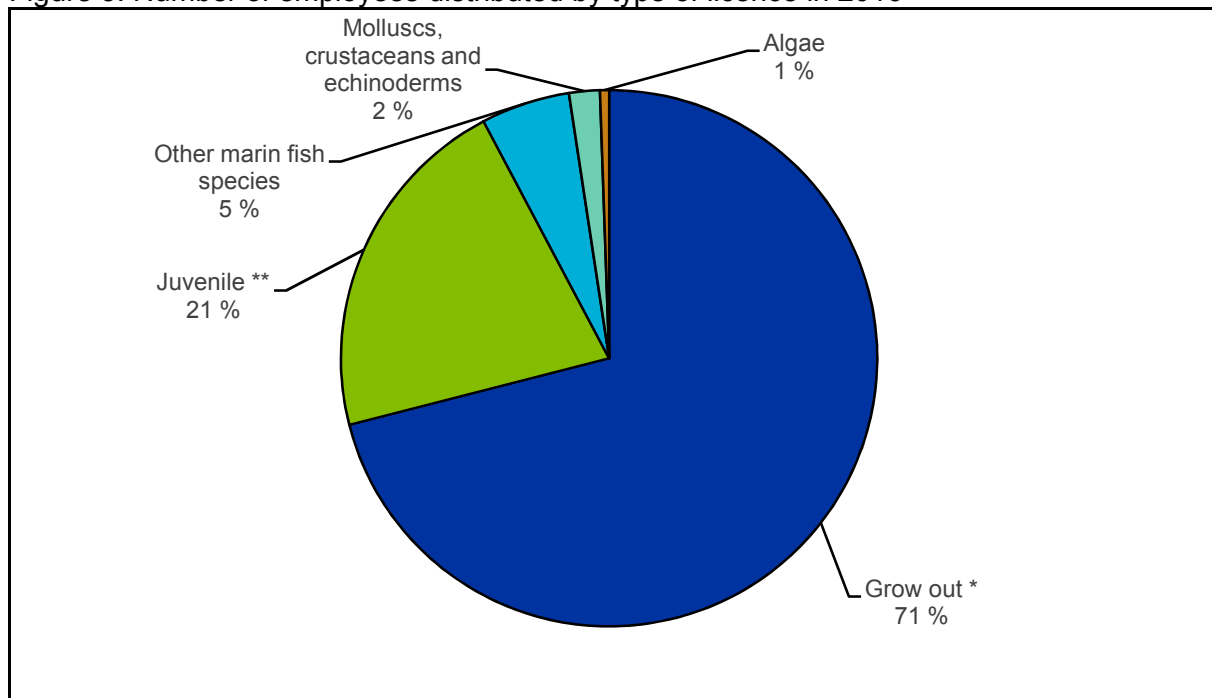


Figure 5. Number of employees distributed by type of licence in 2016



* Grow out production of Atlantic salmon, rainbow trout and trout

** Juvenile production of Atlantic salmon, rainbow trout and trout

Atlantic salmon and rainbow trout

Preliminary figures for 2016 (per May 2017)

Table 7. Employment in the production of Atlantic salmon, rainbow trout and trout in 2016

County	Grow out fish, brood stock, R&D		Juvenile fish	
	Men	Women	Men	Women
Finnmark	370	51	42	19
Troms	557	92	47	13
Nordland	772	109	201	82
Nord-Trøndelag	361	65	102	27
Sør-Trøndelag	474	54	85	38
Møre og Romsdal	523	45	178	69
Sogn og Fjordane	341	57	77	43
Hordaland	994	149	261	158
Rogaland	264	41	89	50
Øvrige fylker	58	7	23	8
Total	4 713	669	1 103	506

Table 8. Man-Hours¹⁾ in the production of Atlantic salmon, rainbow trout and trout in 2016

County	Grow out fish, brood stock R&D		Juvenile fish	
	Men	Women	Men	Women
Finnmark	561 463	61 136	66 328	24 086
Troms	813 182	91 567	76 186	14 875
Nordland	1 078 473	117 160	307 749	101 425
Nord-Trøndelag	557 057	55 460	171 078	38 289
Sør-Trøndelag	798 910	83 438	122 624	55 803
Møre og Romsdal	851 726	64 903	252 790	69 164
Sogn og Fjordane	471 482	72 923	92 543	32 205
Hordaland	1 261 801	137 534	337 237	120 941
Rogaland	366 371	41 731	134 542	51 424
Øvrige fylker	75 658	2 325	23 972	6 350
Total	6 836 123	728 177	1 585 049	514 562

1) The Directorate of Fisheries define the number of man-hour per year as 1845 hours

Other marine fish species

Preliminary figures for 2016 (per May 2017)

Table 9. Employment in the production of other marine fish species in 2016

County	Grow out production		Juvenile	
	Men	Women	Men	Women
Finnmark og Troms	6	0	19	20
Nordland	15	5	32	11
Trøndelag	7	0	22	10
Møre og Romsdal	7	1	37	24
Sogn og Fjordane	11	1	9	3
Hordaland	17	7	42	23
Rogaland og øvrige fylker	32	8	21	17
Total	95	22	181	108

Table 10. Man-Hours¹⁾ in the production of other marine fish species in 2016

County	Grow out production		Juvenile	
	Men	Women	Men	Women
Finnmark og Troms	7 000	0	25664	24611
Nordland	12 150	3 880	40 959	11 526
Trøndelag	9 444	0	40 877	17 165
Møre og Romsdal	13 100	1 820	54 407	24 631
Sogn og Fjordane	20 250	1 850	16 125	5 415
Hordaland	18 810	7 860	62 661	31 378
Rogaland og øvrige fylker	42 106	6 398	33 134	24 036
Total	122 860	21 808	273 827	138 762

1) The Directorate of Fisheries defines the number of man-hour per year as 1845 hours

Molluscs, crustaceans and echinoderms

Preliminary figures for 2016 (per May 2017)

Table 11. Employment in the production of molluscs, crustaceans and echinoderms in 2016

County	Employees		Hours ¹⁾	
	Men	Women	Men	Women
Finnmark og Troms	5	1	3 825	925
Nordland	14	7	12 000	5 898
Trøndelag	42	13	27 399	11 818
Møre og Romsdal	7	1	700	25
Sogn og Fjordane	4	0	1 025	0
Hordaland	24	5	5 938	1 230
Rogaland og øvrige fylker	15	4	3 610	350
Total	111	30	54 497	20 246

1) The Directorate of Fisheries defines the number of man-hour per year as 1845 hours

Algae

Preliminary figures for 2016 (per May 2017)

Table 12. Employment in the production of algae in 2016

	Employees		Hours ¹⁾	
	Men	Women	Men	Women
Total	28	13	6 423	4 011

1) The Directorate of Fisheries defines the number of man-hour per year as 1845 hours

5. Sale

Source: The Directorate of Fisheries

Atlantic salmon and rainbow trout

Preliminary figures for 2016 (per May 2017)

Figure 6. Sale of Atlantic salmon and rainbow trout (grow out production) 2006-2016

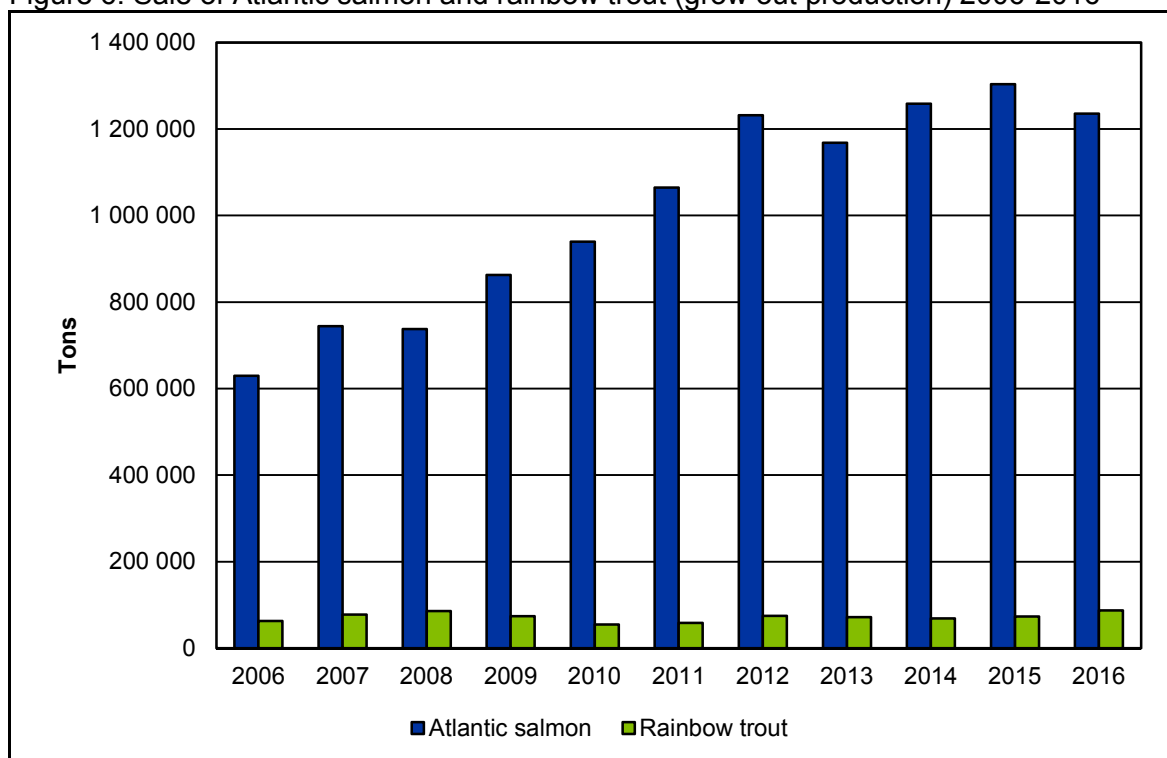


Table 13. Sale of Atlantic salmon and Rainbow trout in 2016, weight in metric tons round weight and value in 1000 NOK.

County	Grow out production					
	Atlantic salmon			Rainbow trout		
	Weight	Value	Price per kg	Weight	Value	Price per kg
Finnmark	92 733	4 689 887	50,57	0	0	-
Troms	176 265	9 083 213	51,53	0	0	-
Nordland	249 067	12 077 557	48,49	5 528	272 554	49,31
Nord-Trøndelag	96 001	4 607 826	48,00	240	7 524	31,39
Sør-Trøndelag	167 862	7 796 280	46,44	0	0	-
Møre og Romsdal	89 363	4 055 073	45,38	15 152	580 818	38,33
Sogn og Fjordane	104 241	4 556 724	43,71	16 084	676 106	42,04
Hordaland	168 044	8 374 591	49,84	50 310	2 125 420	42,25
Rogaland	74 098	3 842 921	51,86	51	2 194	43,35
Øvrige fylker	17 588	859 361	48,86	83	4 164	50,45
Total	1 235 263	59 943 434	48,53	87 446	3 668 780	41,95

Figure 7. Sale of juvenile fish of Atlantic salmon and rainbow trout 2006-2016

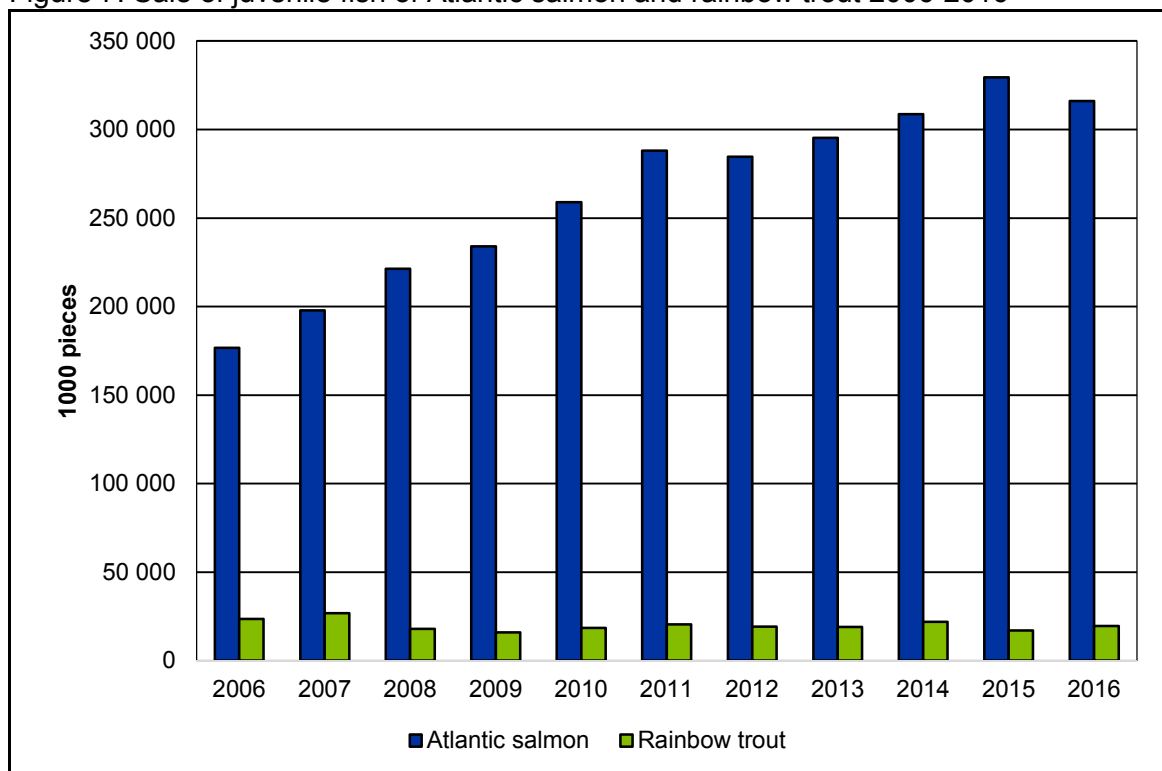


Table 14. Sale of juvenile fish of Atlantic salmon and rainbow trout in 2016. Quantity in 1000 pieces and value in 1000 NOK.

County	Juvenile fish					
	Atlantic salmon			Rainbow trout		
	No.	Value	Price per no.	No.	Value	Price per no.
Finnmark og Troms	30 550	350 788	11,48	0	0	-
Nordland	82 879	889 685	10,73	1 404	9 144	6,51
Nord-Trøndelag	38 895	380 885	9,79	0	0	-
Sør-Trøndelag	32 644	349 328	10,70	850	8 568	10,08
Møre og Romsdal	43 932	534 934	12,18	1 059	10 590	10,00
Sogn og Fjordane	15 569	202 735	13,02	4 785	51 383	10,74
Hordaland	53 677	717 189	13,36	8 457	94 733	11,20
Rogaland	13 253	154 852	11,68	2 828	35 472	12,54
Øvrige fylker	4 752	52 275	11,00	220	2 390	10,86
Total	316 151	3 632 671	11,49	19 603	212 280	10,83

Figure 8. Percentage of sale (Atlantic salmon and rainbow trout) for the 10 largest companies 2006-2016

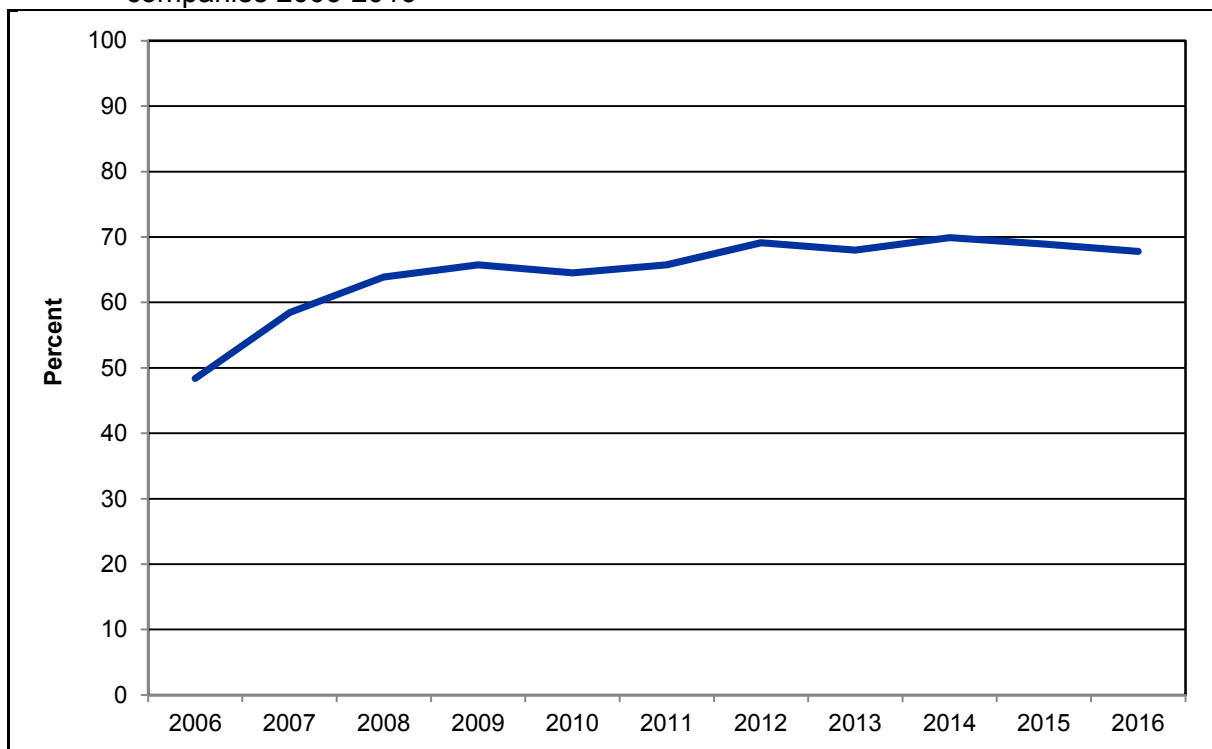


Table 15. Percentage of sale (Atlantic salmon and rainbow trout) for the 10 largest companies in Norway. Weight in tons

Year	Total sale	10 largest	Percentage
2006	692 591	335 161	48,4
2007	821 687	480 257	58,4
2008	822 960	525 830	63,9
2009	936 980	615 803	65,7
2010	994 113	641 551	64,5
2011	1 123 340	739 357	65,8
2012	1 306 678	871 660	69,1
2013	1 239 762	843 165	68,0
2014	1 327 266	927 983	69,9
2015	1 376 267	948 319	68,9
2016	1 322 787	896 756	67,8

Other marine fish species

Preliminary figures for 2016 (per May 2017)

Figure 9. Sale of other marine fish species 2006-2016

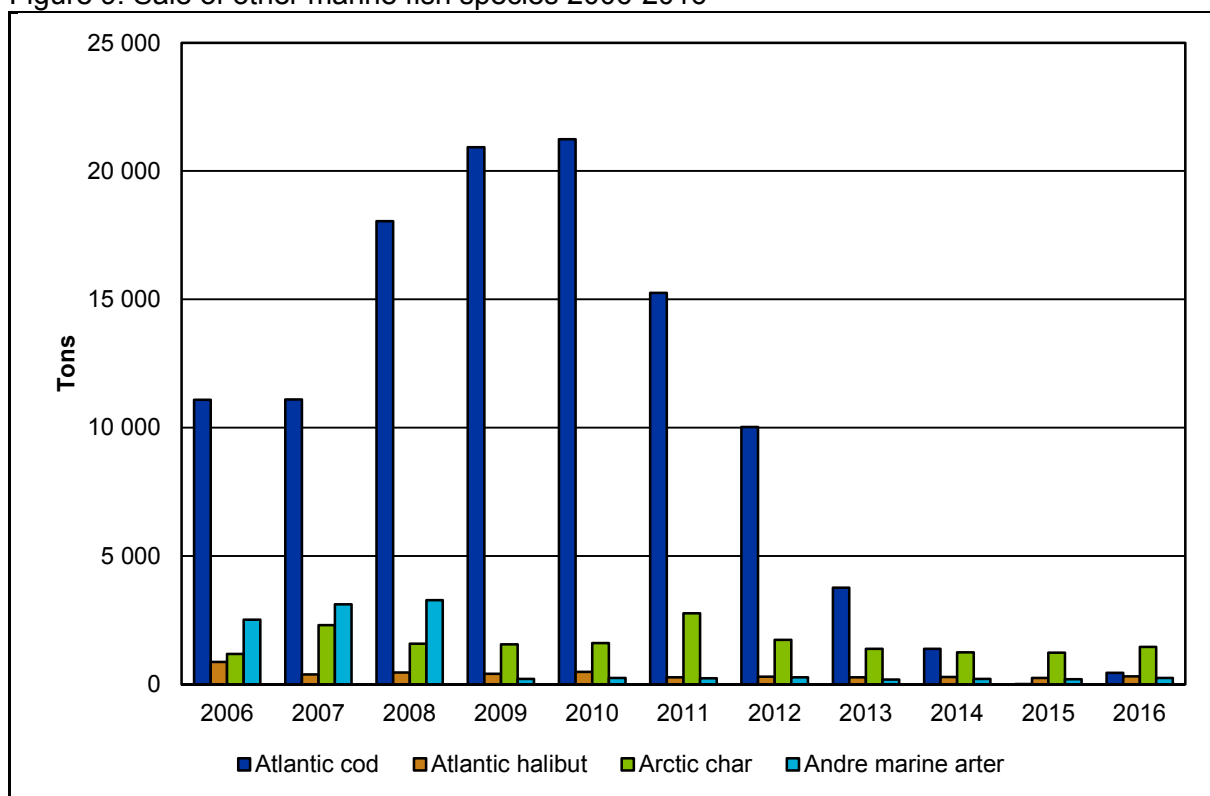


Table 16. Sale of other marine fish species in 2016. Weight in metric tons round weight and value in 1000 NOK.

County	Weight	Value	Species	Weight	Value
Finnmark og Troms	493	12 504	Atlantic cod	450	9 903
Nordland	355	21 868	Arctic char	311	17 822
Trøndelag	19	1 170	Atlantic halibut	1 461	161 579
Møre og Romsdal	738	85 899	Other species	251	21 327
Sogn og Fjordane	4	592	Total	2 473	210 631
Hordaland	0	0			
Rogaland og øvrige fylker	864	88 597			
Total	2 473	210 631			

Table 17. Sale of juveniles of other marine fish species in 2016. Quantity in 1000 pieces and value in 1000 NOK.

Species	Number	Value
Atlantic cod	0	0
Arctic char	603	993
Atlantic halibut	742	33 519
Other species	9	223
Total	1 354	34 736

Molluscs, crustaceans and echinoderms

Preliminary figures for 2016 (per May 2017)

Figure 10. Gross sale of molluscs, crustaceans and echinoderms 2006-2016

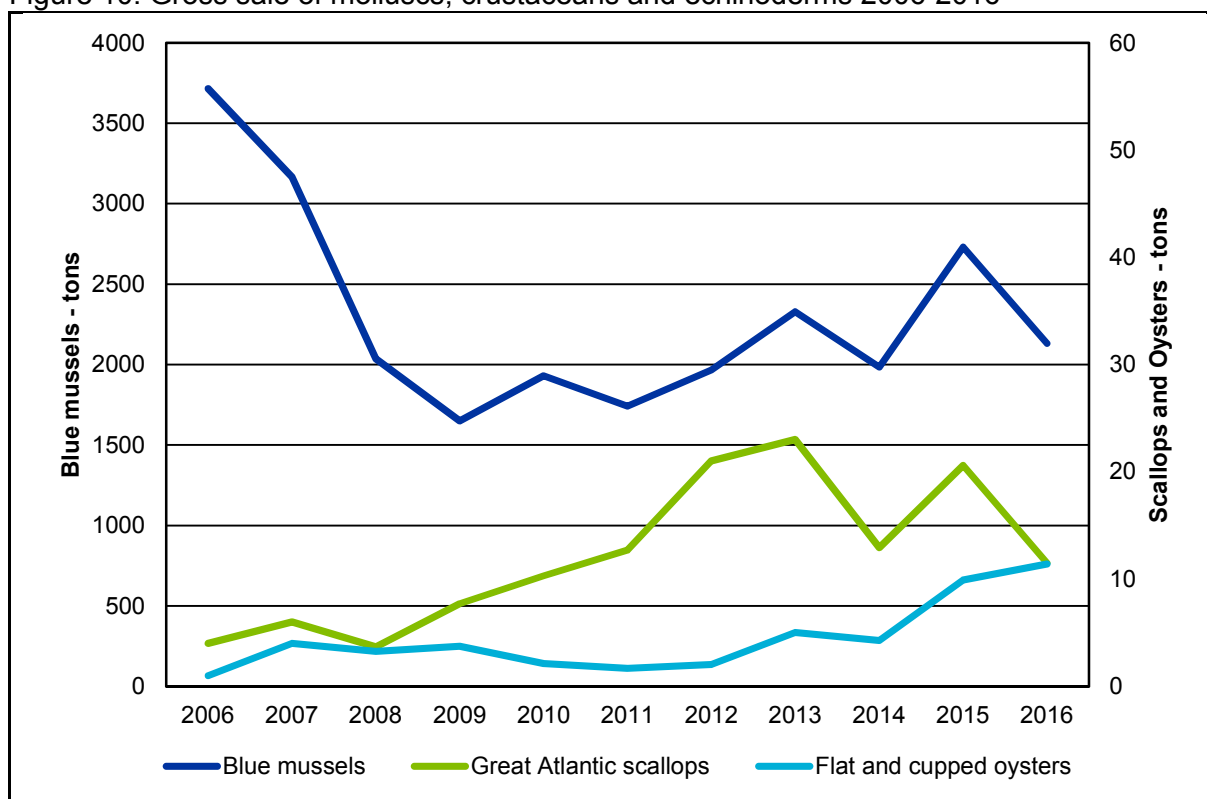


Table 18. Gross sale of molluscs, crustaceans and echinoderms in 2016. Weight in metric tons and value in 1000 NOK.

County	Weight	Value	Species	Weight	Value
Finnmark og Troms	2	41	Blue mussels	2 131	18 711
Nordland	912	8 801	Great Atlantic scallops	12	550
Nord-Trøndelag	482	3 048	Oysters	11	697
Sør-Trøndelag	650	6 382	Other species	614	4 380
Møre og Romsdal	11	3 738	Total	2 767	24 338
Sogn og Fjordane	0	2			
Hordaland	619	1 621			
Rogaland	4	180			
Øvrige fylker	87	524			
Total	2 767	24 338			

6. Losses in the production

Source: The Directorate of Fisheries

Definitions:

- Dead fish: Number fish physically taken out of the bag-net. Cause of this type of death could be illness, wounds etc. without clearly specifying the cause.
- Turn out from slaughterhouse: Number of fish discarded at slaughterhouse due to maturity, defects, blemishes etc.
- Escapes: Number of fish that have escaped in conjunction with an accident.
- Other losses: Number of fish lost due to predation, theft and other causes.
- Counting mistakes: Number fish adjusted according to original outset numbers.

Atlantic salmon and rainbow trout

Preliminary figures for 2016 (per May 2017)

Table 19. Losses in production of Atlantic salmon in 2016. Quantity in 1000 pieces.

County	Dead	Rejected	Escapees	Others	Adjust input	Total
Finnmark	3 259	132	0	1 760	-178	4 974
Troms	4 063	50	6	2 172	221	6 512
Nordland	6 498	148	12	841	671	8 169
Nord-Trøndelag	2 490	21	11	1 267	102	3 891
Sør-Trøndelag	7 324	111	0	866	137	8 438
Møre og Romsdal	5 111	133	0	143	65	5 452
Sogn og Fjordane	3 043	141	8	478	180	3 850
Hordaland	7 510	1 108	45	1 147	149	9 959
Rogaland	2 835	1 021	0	355	-140	4 071
Øvrige fylker	1 285	57	0	2	-97	1 247
Total	43 419	2 922	82	9 030	1 110	56 562

Table 20. Losses in the production of rainbow trout in 2016. Quantity in 1000 pieces.

County	Dead	Rejected	Escapees	Others	Adjust input	Total
Finnmark	0	0	0	0	0	0
Troms	0	0	0	0	0	0
Nordland	83	3	0	1	206	292
Nord-Trøndelag	16	0	0	0	37	53
Sør-Trøndelag	0	0	0	0	0	0
Møre og Romsdal	297	0	2	0	-48	251
Sogn og Fjordane	410	32	0	365	180	987
Hordaland	1 533	238	60	0	-406	1 424
Rogaland	7	0	0	0	1	9
Øvrige fylker	10	0	0	1	0	11
Total	2 355	273	62	367	-29	3 027

Other marine fish species

Preliminary figures for 2016 (per May 2017)

Table 21. Losses in the production of other marine fish species in 2016. Quantity in 1000 pieces.

County	Dead	Rejected	Escapees	Others	Adjust input	Total
Finnmark og Troms	32	2	0	0	3	36
Nordland	20	2	0	2	34	59
Trøndelag	660	5	0	7	0	673
Møre og Romsdal	39	10	1	3	-7	46
Sogn og Fjordane	25	19	0	0	0	45
Hordaland	35	0	0	0	19	55
Rogaland og øvrige fylker	124	10	0	0	3	138
Total	936	50	1	12	53	1 015

7. Cleaner fish

Source: The Directorate of Fisheries

Preliminary figures for 2016 (per May 2017)

Figure 11. Number of cleaner fish in the cages with Atlantic salmon and rainbow trout 2006-2016

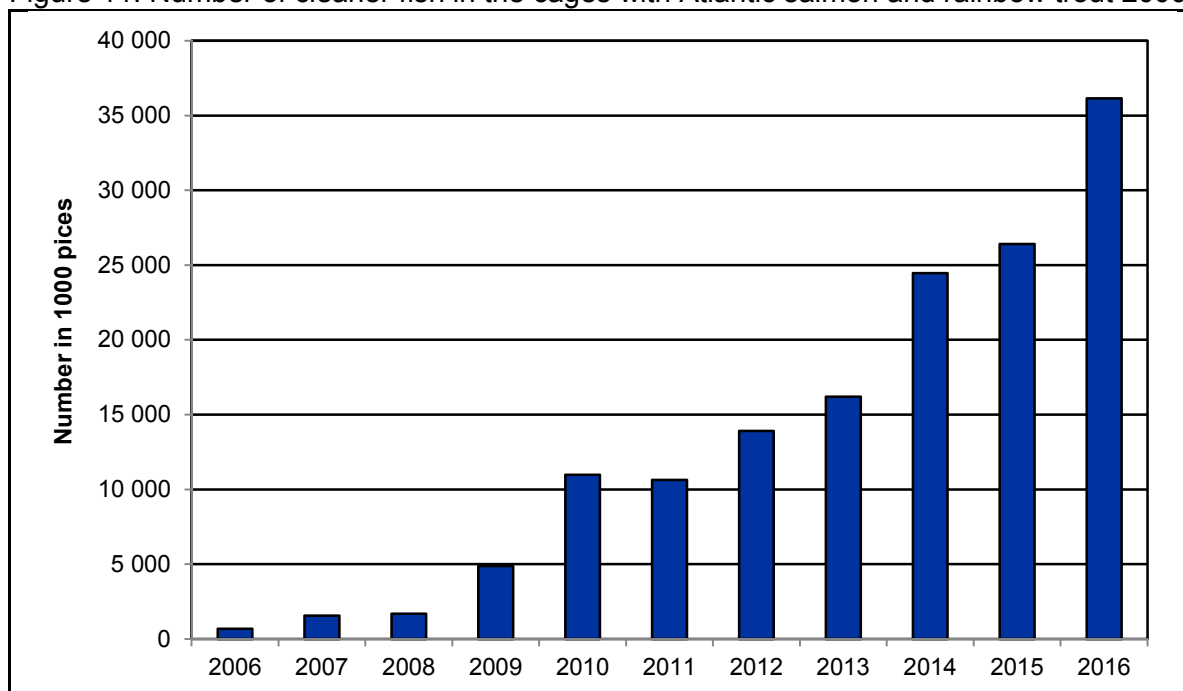


Table 22. Number of cleaner fish in the cages with Atlantic salmon and rainbow trout in 2016. Numbers in 1000 and value in 1000 NOK.

County	No.	Value
Finnmark	464	8 900
Troms	501	8 051
Nordland	3 019	54 508
Nord-Trøndelag	1 816	34 221
Sør-Trøndelag	6 026	115 047
Møre og Romsdal	6 959	131 831
Sogn og Fjordane	3 315	62 111
Hordaland	11 120	170 147
Rogaland	2 627	43 480
Øvrige fylker	296	5 124
Total	36 143	633 421

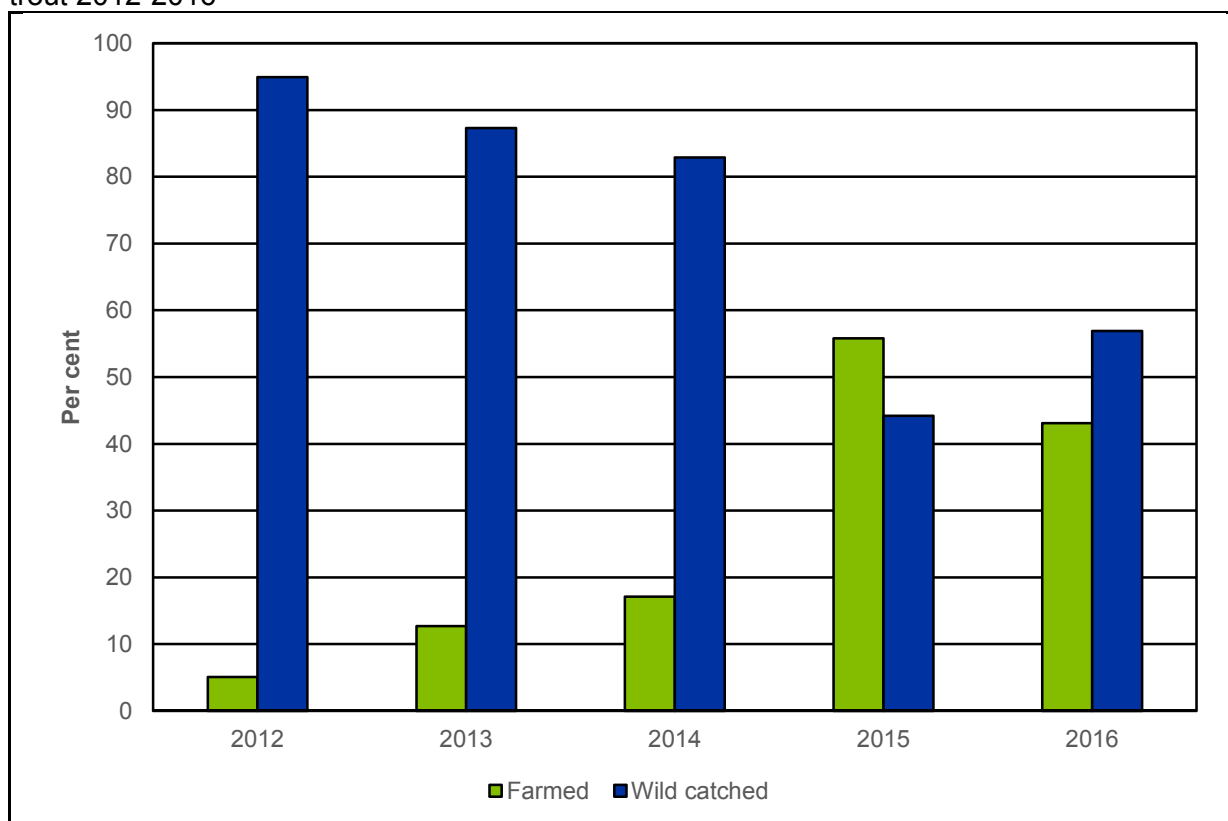
Table 23. Total number of cleaner fish in the cages with Atlantic salmon and rainbow trout by species in 2016. Number in 1000 and value in 1000 NOK.

Species	No.	Value
Lumpfish	15 784	316 162
Ballan wrasse	2 130	51 969
Goldsinny wrasse	5 898	68 494
Corkwing wrasse	4 812	63 321
Non specified	7 520	133 476
Total	36 143	633 421

Table 24. Sale of farmed cleaner fish to producers of Atlantic salmon and rainbow trout. Numbers in 1000 and value in 1000 NOK.

Species	2016		2015		2014	
	No.	Value	No.	Value	No.	Value
Ballan wrasse	424	12 111	1 348	30 304	379	6 740
Lumpfish	15 168	275 375	13 385	237 468	3 457	52 858
Other species	0	0	0	0	0	0
Total	15 592	287 486	14 733	267 771	3 836	59 598

Figure 12. Percentage of farmed and wild cleaner fish in cages with Atlantic salmon and rainbow trout 2012-2016



8. Export

Source: Norwegian Seafood Council

Figure 13. Main markets for Atlantic salmon 2016

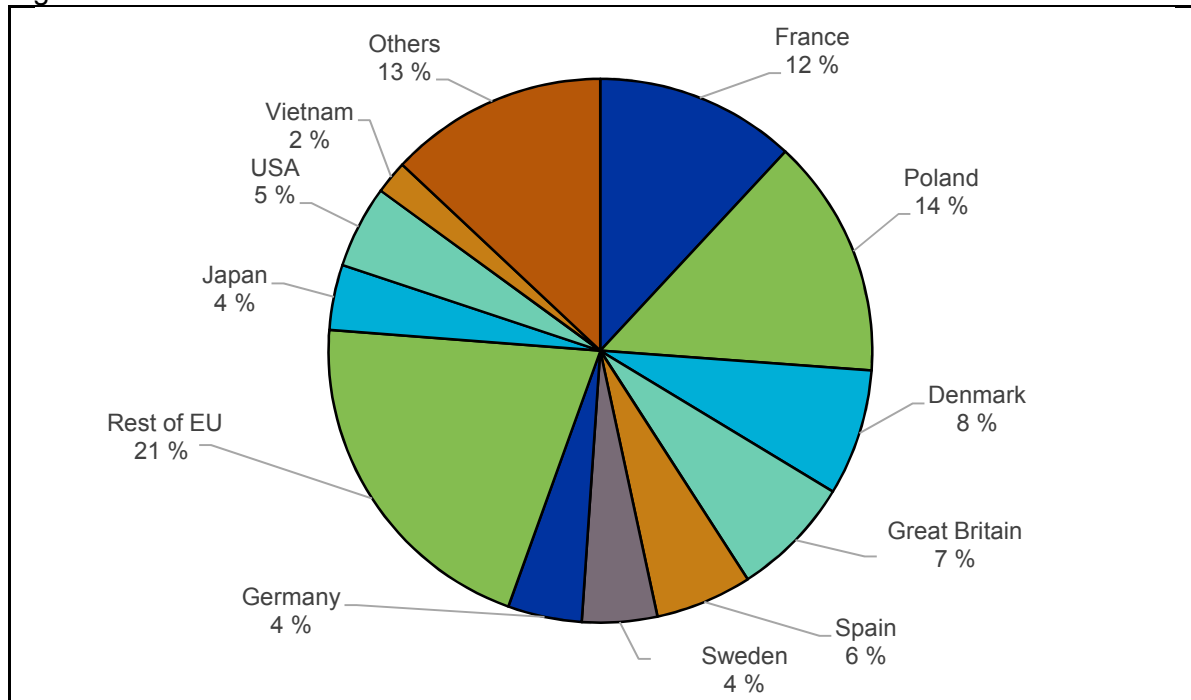


Figure 14. Main markets for rainbow trout 2016

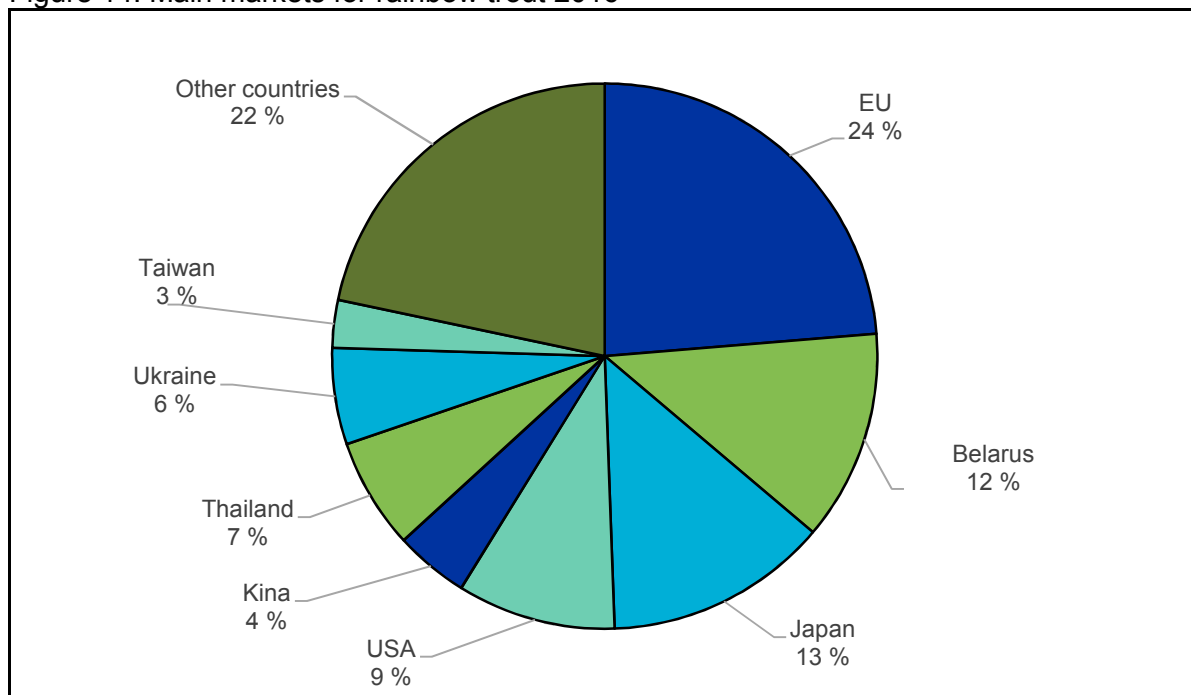


Table 25. Export of Atlantic salmon specified by country. Weight in metric tons (round weight) and value in mill NOK.

Salmon, round	2015			2016			% - changes	
	Quantity	Value	NOK/kg	Quantity	Value	NOK/kg	Quantity	Value
France	144 413	5 619	38,91	134 227	7 201	53,65	-7 %	28 %
Poland	158 390	5 865	37,03	160 451	8 133	50,69	1 %	39 %
Denmark	88 044	3 264	37,07	84 581	4 479	52,95	-4 %	37 %
Great Britain	84 236	3 445	40,90	81 323	3 823	47,01	-3 %	11 %
Spain	73 463	2 819	38,37	64 755	3 587	55,39	-12 %	27 %
Sweden	57 460	2 495	43,42	50 224	2 860	56,94	-13 %	15 %
Germany	50 345	2 001	39,75	49 677	2 693	54,20	-1 %	35 %
Rest of EU	253 357	9 698	38,28	233 578	12 459	53,34	-8 %	28 %
EU	909 709	35 206	38,70	858 815	45 233	52,67	-6 %	28 %
Russia	43 500	1 951	44,86	43 735	2 543	58,15	1 %	30 %
Japan	50 917	2 500	49,10	55 342	3 379	61,05	9 %	35 %
USA	9 755	478	48,97	22 383	1 436	64,16	129 %	201 %
Other countries	175 275	7 469	42,61	146 352	8 756	59,83	-17 %	17 %
Total	1 189 156	47 604	40,03	1 126 627	61 347	54,45	-5 %	29 %

Table 26. Export of Atlantic salmon specified by product. Weight in metric tons and value in million NOK.

Product	2015			2016			% - changes	
	Quantity	Value	NOK/kg	Quantity	Value	NOK/kg	Quantity	Value
Fresh fish	965 553	37 242	38,57	905 125	48 929	54,06	-6 %	31 %
Fresh filet	124 618	5 539	44,44	128 210	7 003	54,62	3 %	26 %
Frozen fish	28 210	1 100	39,00	22 952	1 208	52,62	-19 %	10 %
Frozen filet	60 400	3 118	51,62	59 458	3 602	60,57	-2 %	16 %
Frozen fish meat	2 655	221	83,31	2 564	201	78,59	-3 %	-9 %
Smoked	3 597	251	69,86	3 263	291	89,20	-9 %	16 %
Other products	4 122	133	32,34	5 054	113	22,29	23 %	-16 %
Total	1 189 156	47 604	40,03	1 126 627	61 347	54,45	-5 %	29 %

Table 27. Export of rainbow trout specified by country. Weight in metric tons and value in million NOK.

Rainbow trout, round	2015			2016			% - changes	
	Quantity	Value	NOK/kg	Quantity	Value	NOK/kg	Quantity	Value
EU	14 156	455	32,14	19 674	861	43,78	39 %	89 %
Belarus	13 781	470	34,09	10 368	518	49,94	-25 %	10 %
Japan	7 383	256	34,72	10 999	505	45,92	49 %	97 %
USA	3 933	160	40,78	7 810	368	47,15	99 %	130 %
Kina	3 004	95	31,50	3 636	143	39,38	21 %	51 %
Thailand	3 040	115	37,85	5 454	263	48,17	79 %	128 %
Ukraine	3 586	108	30,16	4 758	199	41,85	33 %	84 %
Taiwan	2 533	94	37,14	2 335	116	49,79	-8 %	24 %
Other countries	12 402	551	44,43	18 012	925	51,35	45 %	68 %
Total	63 819	2 304	36,11	83 046	3 899	46,95	30 %	69 %

Table 28. Export of rainbow trout specified by product. Weight in metric tons and value in million NOK.

Product	2015			2016			% - changes	
	Quantity	Value	NOK/kg	Quantity	Value	NOK/kg	Quantity	Value
Fresh fish	37 261	1 284	34,45	45 308	2 204	48,66	22 %	72 %
Fresh filet	1 796	73	40,82	5 214	269	51,49	190 %	266 %
Frozen	19 100	626	32,79	26 013	1 045	40,17	36 %	67 %
Frozen filet	2 339	102	43,47	3 601	173	47,94	54 %	70 %
Other products	3 323	219	66,01	2 911	208	71,51	-12 %	-5 %
Total	63 819	2 304	36,11	83 046	3 899	46,95	30 %	69 %

9. Economic results

Source: The Directorate of Fisheries

Definition:

Operating Margin = (Operating Profit / Operating Revenues) * 100

Return on Total Assets = ((Operating Profit + Financial Revenues) / Total Assets) * 100

Figure 15. Operating margin and production costs per kg 1995-2015¹⁾

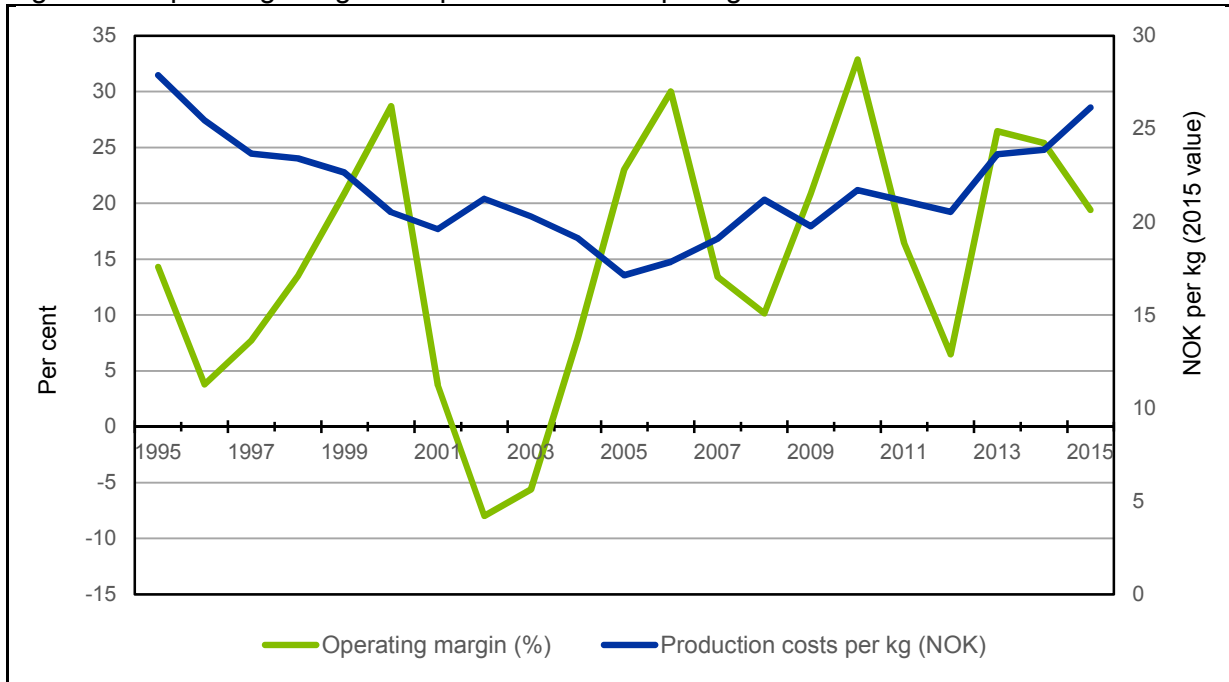
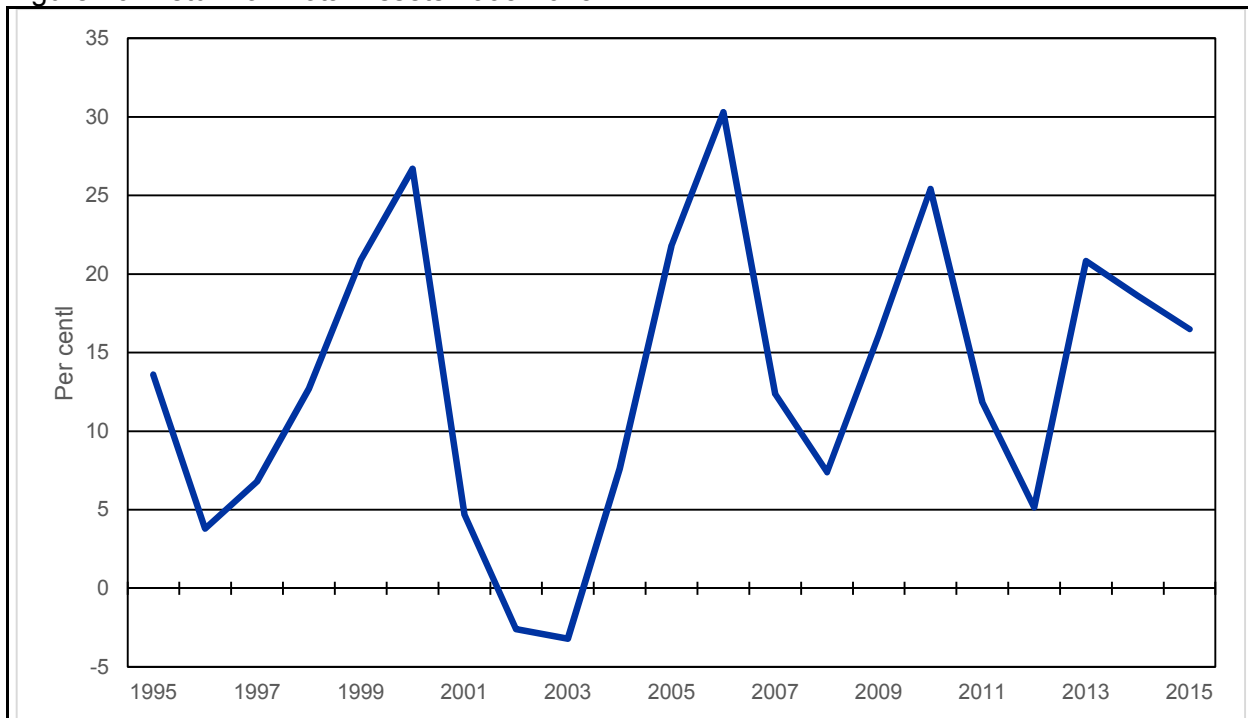


Figure 16. Return on Total Assets 1995-2015¹⁾

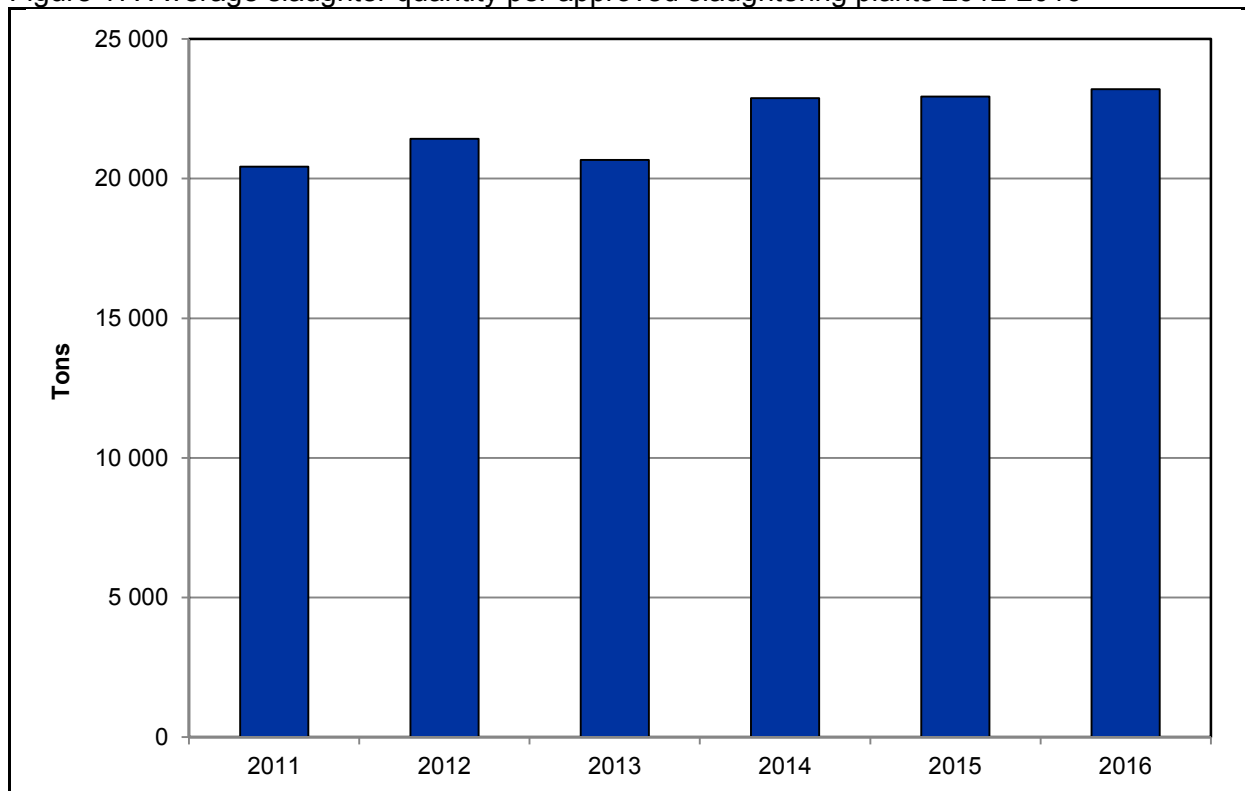


1) Average figures for companies with grow out production of Atlantic salmon and rainbow trout

10. Approved slaughtering plants for salmonids

Source: The Norwegian Food Safety Authority

Figure 17. Average slaughter quantity per approved slaughtering plants 2012-2016



Average slaughtered quantity per approved slaughtering plant is defined as total slaughtered quantity divided by the number of slaughtering plants for salmonids. The number of slaughtering plants in operation is unknown.

Table 29. The number of approved slaughtering plants for farmed salmonids

County	2011	2012	2013	2014	2015	2016
Finnmark	4	5	4	4	4	4
Troms	8	9	9	9	9	8
Nordland	14	16	15	15	15	14
Nord-Trøndelag	3	3	3	3	3	3
Sør-Trøndelag	5	6	6	5	6	6
Møre og Romsdal	7	5	5	5	5	5
Sogn og Fjordane	4	3	3	3	3	3
Hordaland	7	11	11	10	10	9
Rogaland	3	3	4	4	4	4
Øvrige fylker	0	0	0	0	1	1
Total	55	61	60	58	60	57

11. Related activities

Insurance

Source: Finance Norway (FNO)

Table 30. Insurance of farmed fish in Norway. Amount in mill NOK.

	2012	2013	2014	2015	2016
Premium	207,4	191,3	202,6	196,9	203,6
Compensation	99,1	134,6	238,1	239,9	144,3
Accident index	48 %	70 %	118 %	122 %	71 %

Use of veterinary drugs

Source: Norwegian Institute of Public Health

Table 31. Figures for use of veterinary drugs¹⁾ in the Norwegian fish farming industry.
Quantity in kg.

	2012	2013	2014	2015	2016
Antibacterial agents	1 591	972	511	301	212
Anaesthetic agents	4 415	5 685	10 623	22 110	17 056
Agents against intestinal worms	423	460	625	942	518
Agents against surface infections	1 090	1 418	1 320	1 733	41 472
Agents against lice	6 810	8 403	12 812	12 768	10 625
Hydrogen peroxide	2 538 000	8 262 000	31 577 000	43 246 000	26 597 000

1) Use and dose are differently for the various drugs and it is therefore not possible to sum total kilogram

Well boats

Source: Association of cargo freighters

Table 32. The number of well boats¹⁾

County	2012	2013	2014	2015	2016
Finnmark	2	2	2	1	0
Troms	4	3	2	2	3
Nordland	12	12	13	13	12
Nord-Trøndelag	0	0	0	0	0
Sør-Trøndelag	6	6	6	7	0
Møre og Romsdal	27	25	26	25	31
Sogn og Fjordane	0	0	0	0	1
Hordaland	9	8	9	10	13
Rogaland	0	0	0	0	0
Øvrige fylker	0	0	0	0	0
Total	60	56	58	58	60

1) Based on members in Association of cargo freighters

Use of feed

Source: Norwegian Seafood Federation

Table 33. Figures for use of feed in the Norwegian fish farming industry.
Quantity in metric tons.

	2012	2013	2014	2015	2016
January	101 609	92 974	109 885	115 335	107 609
February	86 132	60 216	90 542	88 250	86 263
March	88 032	59 661	85 068	99 155	87 864
April	87 422	67 433	89 763	96 633	88 279
May	102 588	95 302	110 168	102 581	111 960
June	130 181	130 308	146 910	135 984	137 601
July	181 941	196 456	193 382	180 168	178 012
August	218 438	218 152	204 455	212 812	221 308
September	203 039	218 150	208 674	211 163	210 611
October	194 323	198 517	195 899	195 379	177 491
November	151 273	155 447	165 074	169 670	164 829
December	118 916	131 794	142 597	139 321	137 085
Total	1 663 894	1 624 410	1 742 417	1 746 451	1 708 912

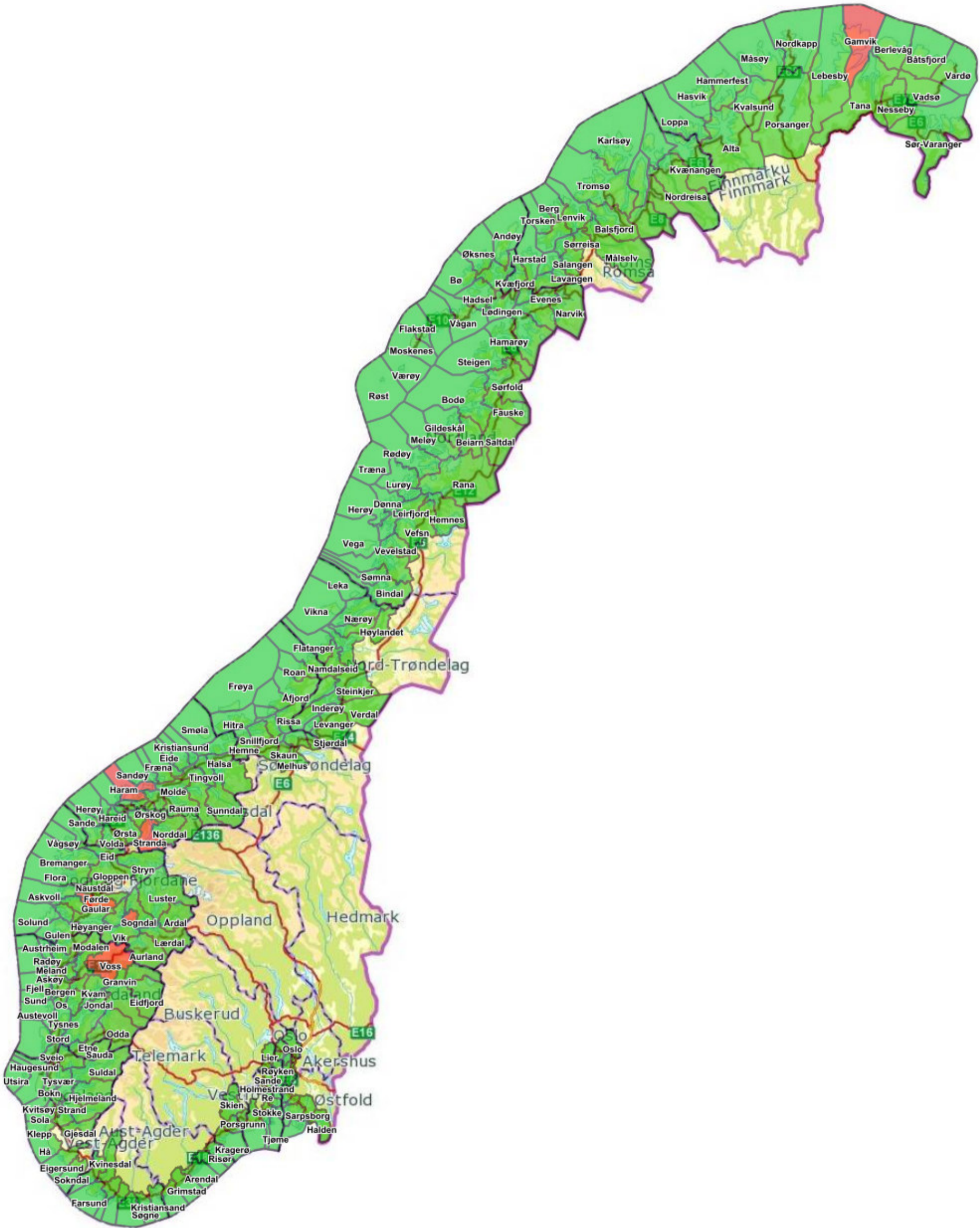
Coastal zone planning

Source: The Directorate of Fisheries

Seven of the 276 municipalities was missing coastal zone plan. Among the seven missing coastal zone plans are three from municipalities of Møre og Romsdal.

Tabell 34. The number of coastal municipalities and coastal zone plans 2016

County	Coastal municipalities	Coastal zone plan	
		Have plans	Lacking
Finnmark	17	16	1
Troms	23	23	0
Nordland	42	42	0
Trøndelag	32	32	0
Møre og Romsdal	35	32	3
Sogn og Fjordane	24	22	2
Hordaland	33	32	1
Rogaland	23	23	0
Øvrige fylker	47	47	0
Total	276	269	7



Status kystsoneplaner 2016

- Har plan
- Har ikke plan