



FISKERIDIREKTORATET

Key figures from Norwegian Aquaculture Industry 2021

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Key figures from Norwegian Aquaculture Industry 2021

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Key figures from Norwegian Aquaculture Industry 2021

Summary:

This report presents key figures from the Norwegian Aquaculture Industry. The report contains information about all species farmed in Norway. The information is in four groups. One group contains information about Atlantic salmon and Rainbow trout. Another group contains information about other 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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1. Licences

Source: The Directorate of Fisheries

Granted licenses

Figure 1. The number of licences 2011-2021

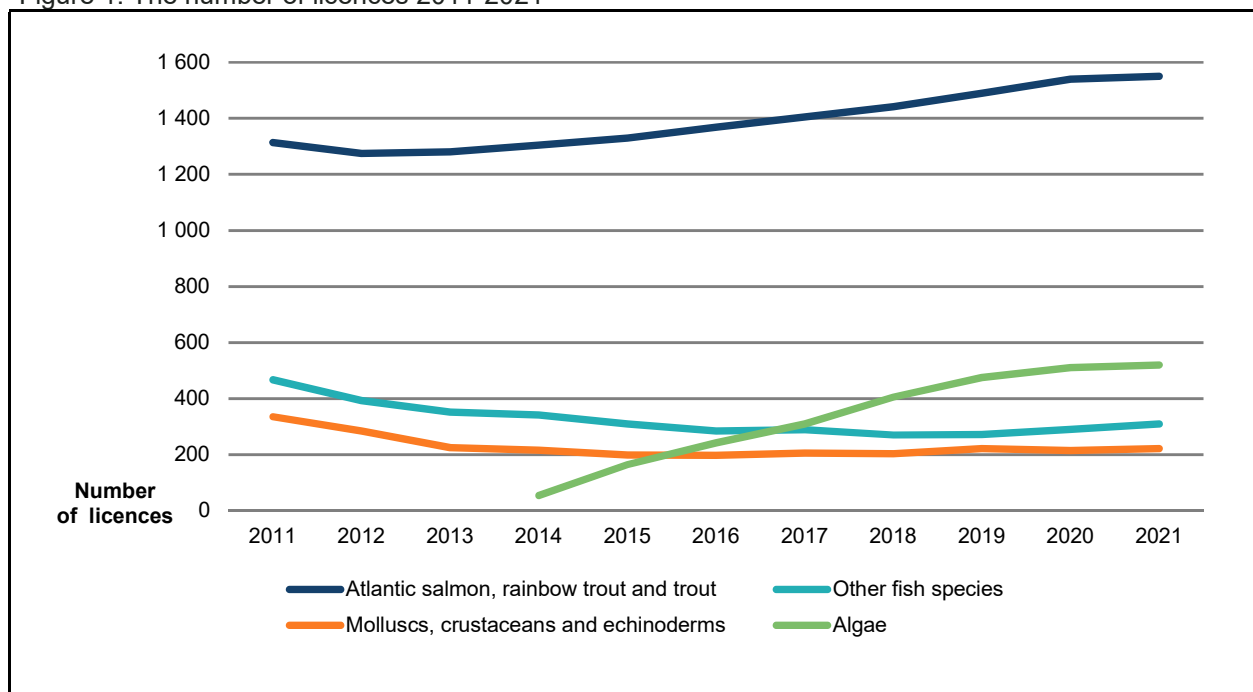
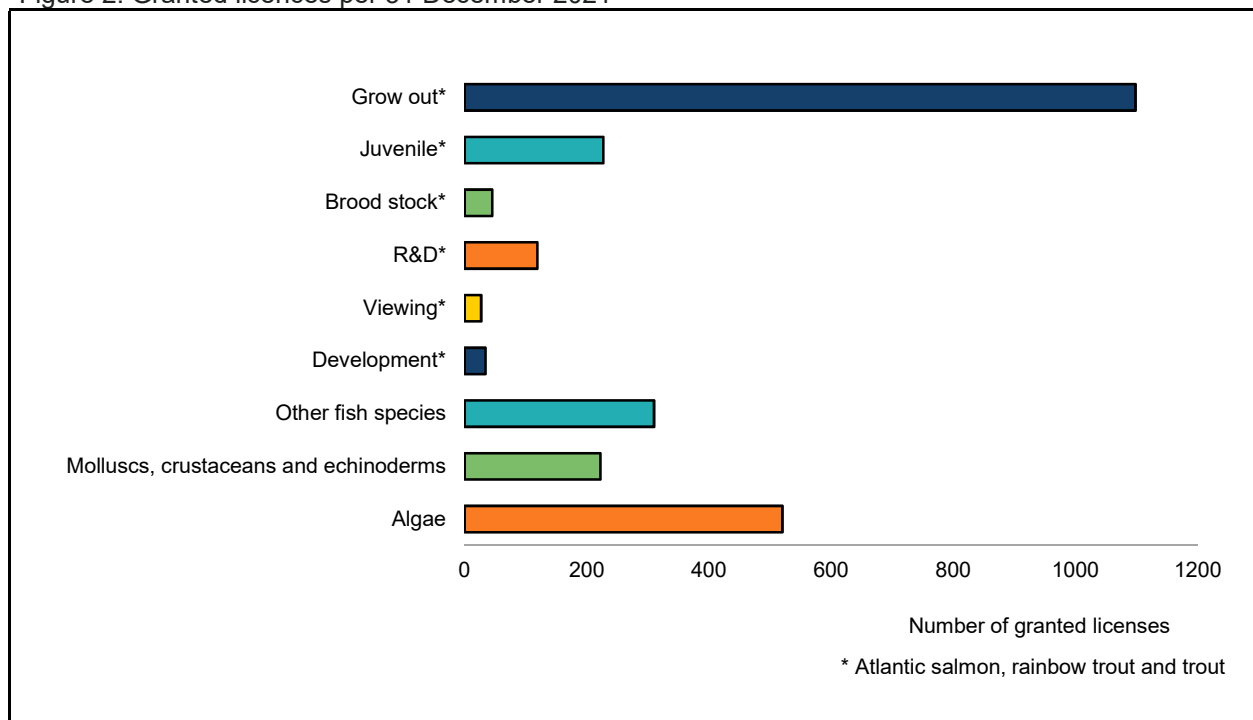


Figure 2. Granted licences per 31 December 2021



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

Table 1. Atlantic salmon, rainbow trout and trout. Commercial licenses per 31 December 2021.

County	Juvenile	Grow out
	Number of licenses	Number of licenses
Troms og Finnmark	21	217
Nordland	35	200
Trøndelag	37	189
Møre og Romsdal	31	114
Vestland	76	263
Rogaland	17	64
Agder	5	24
Other counties	5	27
Total	227	1 098

Table 2. Atlantic salmon, rainbow trout and trout. Licenses with special purpose per 31 December 2021. Number of licenses

County	Brood stock	R&D ¹⁾	Viewing	Development
Troms og Finnmark	2	19	5	8
Nordland	10	24	9	17
Trøndelag	10	19	4	9
Møre og Romsdal	5	9	1	0
Vestland	10	31	7	0
Rogaland	5	15	1	0
Agder	1	1	0	0
Other counties	2	1	0	0
Total	45	119	27	34

1)Research and education

Table 3. Atlantic salmon, rainbow trout and trout. Licenses per 31 December 2021 by production area¹⁾.

Area	Numbers of licenses
1. Svenskegrense til Jæren	24
2. Ryfylke	55
3. Karmøy til Sotra	110
4. Nordhordland til Stadt	135
5. Stadt til Hustadvika	69
6. Nordmøre og Sør-Trøndelag	165
7. Nord-Trøndelag med Bindal	75
8. Helgeland til Bodø	104
9. Vestfjorden og Vesterålen	111
10. Andøya til Kvaløya	64
11. Kvaløya til Senja	54
12. Vest-Finnmark	89
13. Øst-Finnmark	16
Total	1 071

1) Only licenses covered by the production area regulations

Table 4. Other species. Licenses per 31 December 2021 by county

	Fish	Molluscs, crustaceans and echinoderms	Sea Ranching	Algae
County	Number of licenses	Number of licenses	Number of licenses	Number of licenses
Troms og Finnmark	28	11	0	9
Nordland	47	41	0	174
Trøndelag	47	49	1	23
Møre og Romsdal	37	9	1	12
Vestland	92	76	1	283
Rogaland	26	19	3	3
Agder	14	12	2	16
Other counties	19	5	0	0
Total	310	222	8	520

Table 5. Other species. Licenses per 31 December by species

Other fish species		Molluscs, crustaceans and echinoderms		Algae	
Species	No.	Species	No.	Species	No.
Atlantic halibut	64	Blue mussel	123	Sea belt	113
Turbot	31	European lobster	25	Babberlocks	101
Wrasse	188	Great Atlantic scallop	36	Tangle	106
Lumpfish	80	Sea urchin	40	Dulse	91
Arctic char	52	Flat and cupped oyster	42	Others species	349
Atlantic cod	107	Other species	313		
Other species	484				

The licenses for fish species, molluscs, crustaceans and echinoderms are comprised of several species. In Table 5 licenses are counted several times. The total number of licenses in Table 5 is therefore higher than the total number of licenses presented in Table 4.

Total license capacity

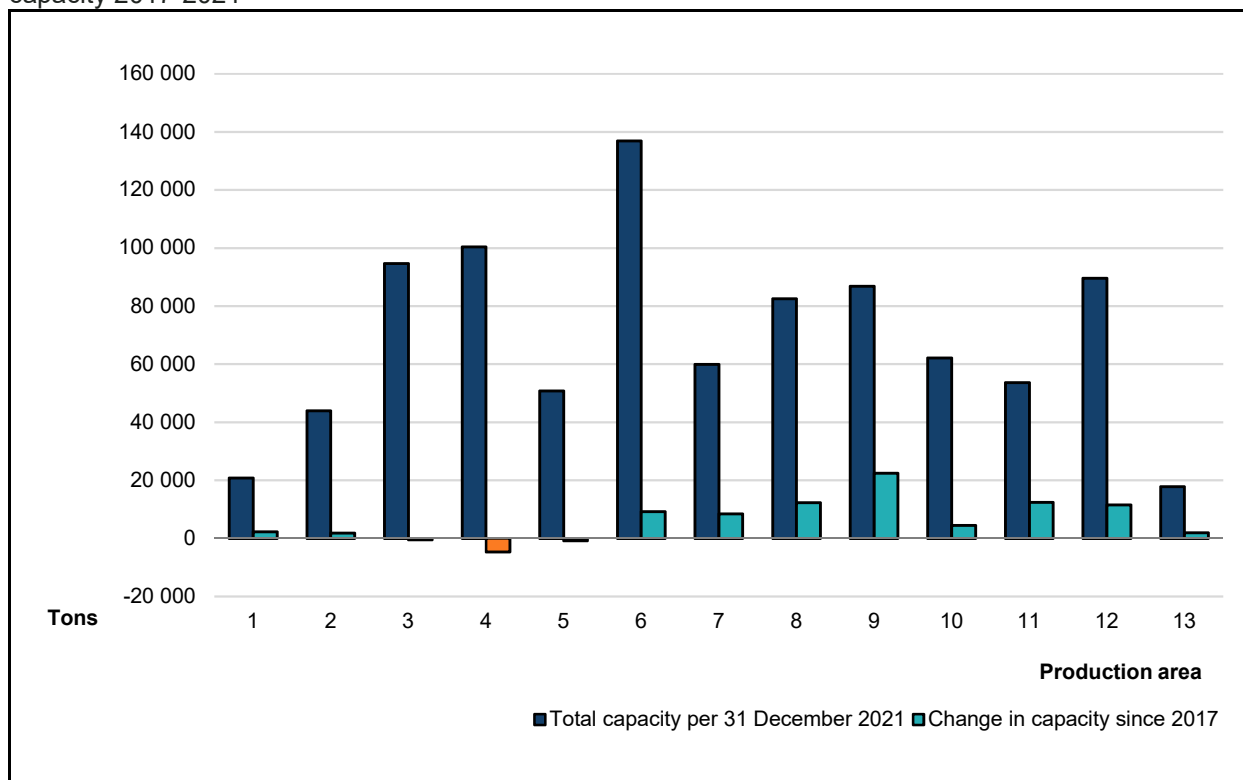
License capacity is maximum allowed biomass. Where biomass is the quantity of live fish at any given time (measured in kg or ton)

Table 6. Atlantic salmon and rainbow trout. License capacity per production area¹⁾ per 31 December 2021

Production area	Tons
1. Svenskegrense til Jæren	20 815
2. Ryfylke	43 888
3. Karmøy til Sotra	94 679
4. Nordhordland til Stadt	100 432
5. Stadt til Hustadvika	50 746
6. Nordmøre og Sør-Trøndelag	136 880
7. Nord-Trøndelag med Bindal	59 958
8. Helgeland til Bodø	82 538
9. Vestfjorden og Vesterålen	86 785
10. Andøya til Kvaløya	62 158
11. Kvaløya til Senja	53 654
12. Vest-Finnmark	89 541
13. Øst-Finnmark	17 851
Total	899 925

1) Only capacity covered by the production area regulations

Figure 3. Total license capacity per 31 December 2021 by production area¹⁾, and changes in the capacity 2017-2021



1) Capacity covered by the production area regulations

Licences with production

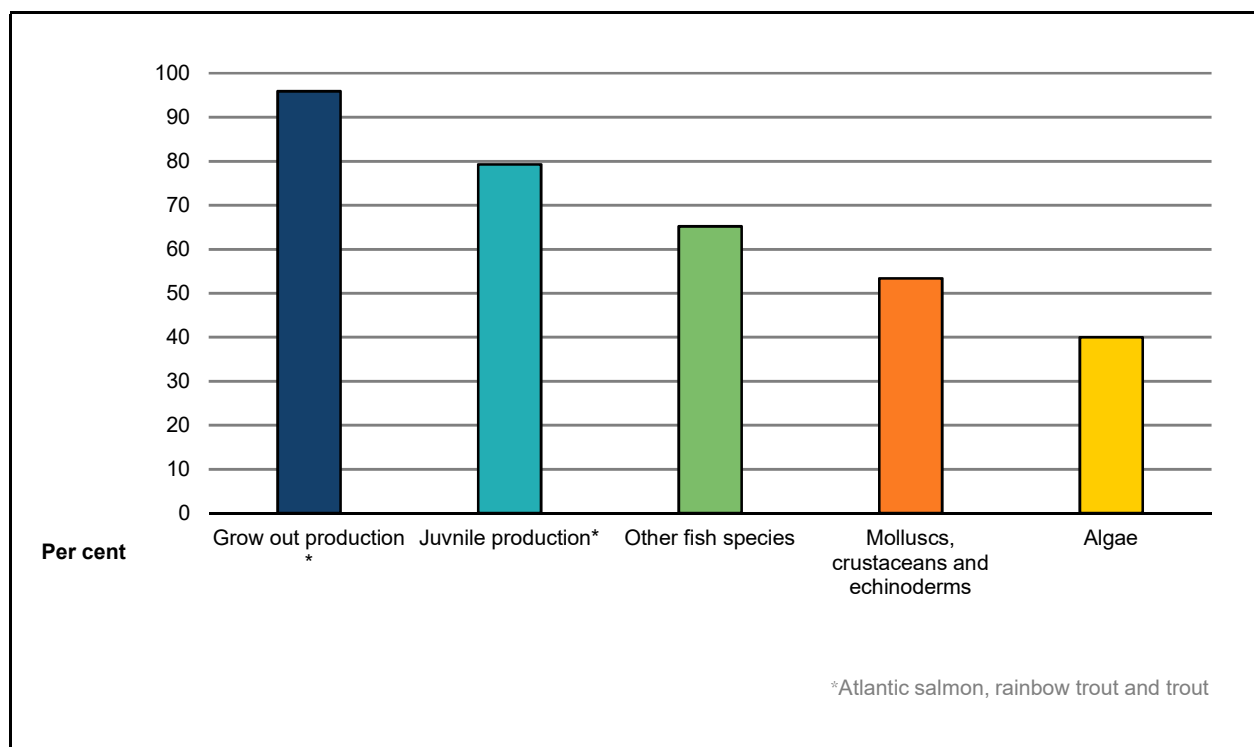
Table 7. Fish. Licenses with production in 2021, preliminary figures

County	Atlantic salmon, rainbow trout and trout		Other fish species	
	Grow out	Hatcheries	Grow out	Hatcheries
Troms og Finnmark	236	16	9	7
Nordland	246	31	26	9
Trøndelag	227	32	31	8
Møre og Romsdal	126	23	13	13
Vestland	298	60	38	18
Rogaland	81	13	8	6
Other counties	29	5	8	8
Total	1 243	180	133	69

Table 8. Molluscs, crustaceans, enchinoderms and algae. Licenses with production in 2021, preliminary figures

County	Molluscs, crustaceans and echinoderms	Algae
Troms og Finnmark	3	1
Nordland	32	90
Trøndelag	34	8
Møre og Romsdal	5	4
Vestland	31	97
Rogaland	6	0
Other counties	7	8
Total	118	208

Figure 4. The percentage of licenses with production 2021, preliminary figures



2. Sites

Source: The Directorate of Fisheries

Table 9. The number of sites in seawater per 31 December 2021

	Atlantic salmon and rainbow trout	Other fish species	Molluscs, crustaceans and echinoderms	Algae
County	Number	Number	Number	Number
Troms og Finnmark	195	7	3	6
Nordland	213	9	39	21
Trøndelag	161	10	42	13
Møre og Romsdal	80	4	2	10
Vestland	270	9	38	54
Rogaland	61	2	5	3
Agder	10	0	6	7
Other counties	0	0	1	0
Total	990	41	136	114

Table 10. The number of sites at land per 31. December 2021 for production of Atlantic salmon and rainbow trout.

County	Licenses for grow out		Licenses for juveniles	
	Freshwater	Salt water	Freshwater	Salt water
County	Number	Number	Number	Number
Troms og Finnmark	1	2	15	0
Nordland	2	4	29	2
Trøndelag	1	1	30	1
Møre og Romsdal	3	4	21	3
Vestland	8	12	50	4
Rogaland	2	1	12	1
Agder	2	1	3	1
Other counties	13	1	5	0
Total	32	26	165	12

3. Companies with production

Source: *The Directorate of Fisheries*

Table 11. Fish. The number of companies with production in 2021, preliminary figures

County	Atlantic salmon, rainbow trout and trout		Other fish species	
	Grow out	Juvenile	Grow out	Juvenile
Troms og Finnmark	21	14	4	5
Nordland	35	15	16	7
Trøndelag	17	16	7	7
Møre og Romsdal	14	13	6	9
Vestland	47	35	11	8
Rogaland	17	10	3	6
Other counties	15	5	7	6
Total	166	108	54	48

Table 12. Molluscs, crustaceans, echinoderms and algae. The number of companies with production of in 2021, preliminary figures

County	Molluscs, crustaceans and echinoderms	Algae
Troms og Finnmark	2	1
Nordland	5	6
Trøndelag	6	2
Møre og Romsdal	3	4
Vestland	17	8
Rogaland	4	0
Other counties	5	1
Total	42	22

4. Employment

Source: *The Directorate of Fisheries*

Figure 5. Number of employees working with production of fish, molluscs, crustaceans and echinoderms 2011-2021, preliminary figures

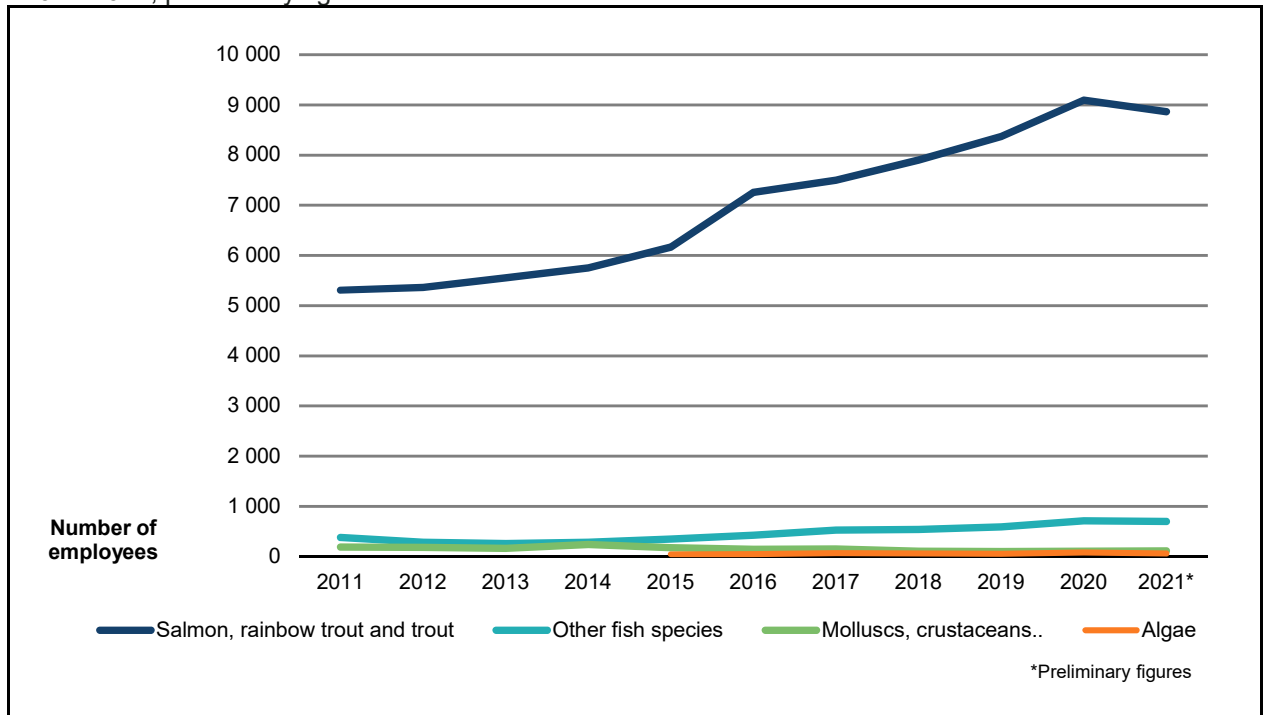
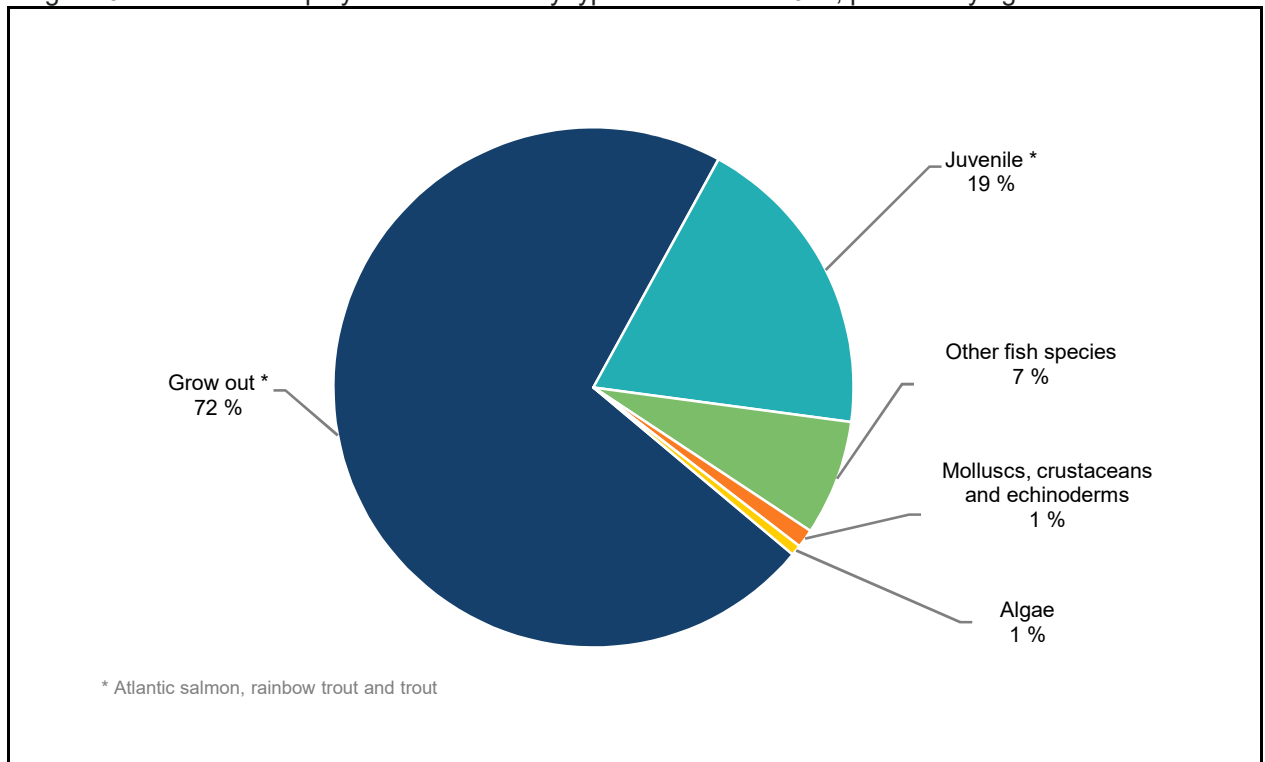


Figure 6. Number of employees distributed by type of license in 2021, preliminary figures



Atlantic salmon and rainbow trout

Table 13. Atlantic salmon, rainbow trout and trout. Employment in 2021, preliminary figures

County	Grow out fish, brood stock and R&D			Juvenile fish		
	Men	Women	Total	Men	Women	Total
Troms og Finnmark	1 202	231	1 433	198	83	281
Nordland	1 166	252	1 418	245	102	347
Trøndelag	940	137	1 077	214	105	319
Møre og Romsdal	616	78	694	143	64	207
Vestland	1 501	360	1 861	344	200	544
Rogaland	335	60	395	96	49	145
Other counties	109	15	124	16	6	22
Total	5 869	1 133	7 002	1 256	609	1 865

Table 14. Atlantic salmon, rainbow trout and trout. Man-Hours¹⁾ in 2021, preliminary figures

County	Grow out fish, brood stock and R&D			Juvenile fish		
	Men	Women	Total	Men	Women	Total
Troms og Finnmark	1 789 830	275 135	2 064 965	294 062	94 140	388 202
Nordland	1 846 067	326 425	2 172 492	385 366	142 658	528 024
Trøndelag	1 511 980	194 041	1 706 021	322 376	132 403	454 779
Møre og Romsdal	944 601	109 098	1 053 699	229 253	82 000	311 253
Vestland	1 900 894	393 987	2 294 881	459 959	175 981	635 940
Rogaland	508 569	78 076	586 645	138 818	64 033	202 851
Other counties	140 849	6 520	147 369	25 646	10 746	36 392
Total	8 642 790	1 383 282	10 026 072	1 855 480	701 961	2 557 441

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

Other fish species

Table 15. Other fish species. Employment in 2021, preliminary figures

County	Grow out production			Juvenile		
	Men	Women	Total	Men	Women	Total
Troms og Finnmark	7	0	7	18	16	34
Nordland	38	21	59	49	47	96
Trøndelag	20	6	26	47	29	76
Møre og Romsdal	12	2	14	60	34	94
Vestland	35	14	49	80	44	124
Rogaland and other counties	40	11	51	48	22	70
Total	152	54	206	302	192	494

Table 16. Other fish species. Man-Hours¹⁾ in 2021, preliminary figures

County	Grow out production			Juvenile		
	Men	Women	Total	Men	Women	Total
Troms og Finnmark	8 429	0	8 429	24 940	20 031	44 971
Nordland	48 052	32 242	80 294	46 590	43 370	89 960
Trøndelag	35 827	10 737	46 564	53 227	23 897	77 124
Møre og Romsdal	21 850	3 800	25 650	90 274	42 282	132 556
Vestland	41 498	14 526	56 024	102 771	49 654	152 425
Rogaland and other counties	46 592	7 090	53 682	69 884	29 562	99 446
Total	202 248	68 395	270 643	387 686	208 796	596 482

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

Molluscs, crustaceans and echinoderms

Table 17. Employment in the production of molluscs, crustaceans and echinoderms in 2021, preliminary figures

County	Employees			Man-Hours ¹⁾		
	Men	Women	Total	Men	Women	Total
Troms og Finnmark	:	:	:	:	:	:
Nordland	16	0	16	12 662	0	12 662
Trøndelag	19	14	33	19 367	19 737	39 104
Møre og Romsdal	:	:	:	:	:	:
Vestland	27	5	32	5 531	2 780	8 311
Rogaland	9	3	12	9 440	2 260	11 700
Other counties	11	0	11	6 318	0	6 318
Total	89	23	112	55 043	24 827	79 870

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

Algae

Table 18. Employment in the production of algae in 2021, preliminary figures

County	Employees			Man-Hours ¹⁾		
	Men	Women	Total	Men	Women	Total
Total	48	16	64	26 263	11 390	37 653

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

Figure 7. Sale of Atlantic salmon and rainbow trout (grow out production) 2011-2021

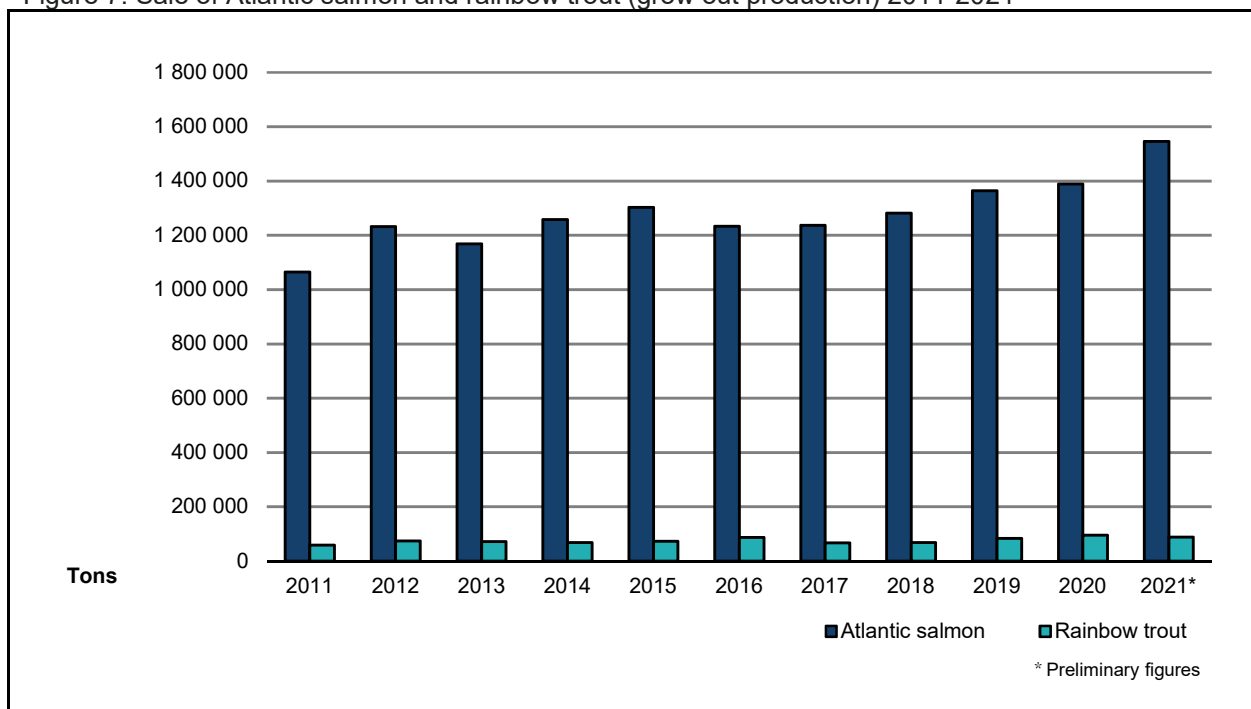


Table 19. Atlantic salmon and rainbow trout. Sale in 2021, preliminary figures. Quantity in metric tons round weight, value in 1000 NOK and prices in NOK per kg

County	Grow out production					
	Atlantic salmon			Rainbow trout		
	Quantity	Value	Price per kg	Quantity	Value	Price per kg
Troms og Finnmark	363 499	17 292 106	47,57	0	0	0,00
Nordland	351 962	17 875 029	50,79	2 473	97 068	39,25
Trøndelag	245 086	12 329 282	50,31	113	5 992	53,09
Møre og Romsdal	206 231	10 301 526	49,95	15 120	647 240	42,81
Vestland	264 351	12 845 504	48,59	69 100	2 931 813	42,43
Rogaland	90 770	4 447 275	48,99	1 890	83 372	44,11
Other counties	24 221	1 225 634	50,60	135	6 052	44,89
Total	1 546 121	76 316 357	49,36	88 831	3 771 537	42,46

Table 20. Atlantic salmon and rainbow trout. Sale for the 10 largest companies in Norway. Weight in tons

Year	Total sale	10 largest	Percentage
2017	1 303 352	874 016	67.1
2018	1 350 348	909 165	67.3
2019	1 447 531	955 460	66.0
2020	1 484 697	976 858	65,8
2021 ¹⁾	1 635 345	1 102 095	67,4

1) Preliminary figures

Figure 8. Sale of juvenile fish of Atlantic salmon and rainbow trout 2011-2021

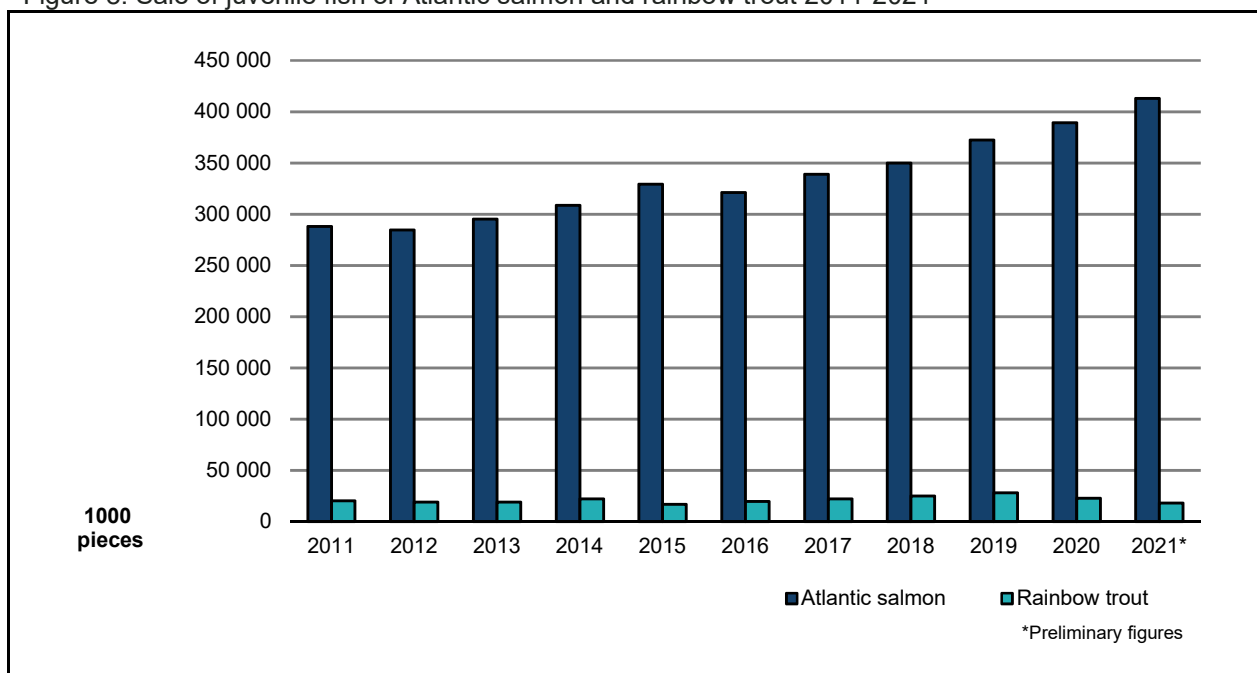


Table 21. Atlantic salmon and rainbow trout. Sale of juvenile fish in 2021, preliminary figures. Numbers in 1000 pieces, value in 1000 NOK and prices in NOK per fish

County	Juvenile fish					
	Atlantic salmon			Rainbow trout		
	Number	Value	Price per fish	Number	Value	Price per fish
Troms and Finnmark	63 328	962 434	15,20	0	0	0,00
Nordland	97 667	1 535 233	15,72	0	0	0,00
Trøndelag	91 200	1 355 310	14,86	455	7 505	16,49
Møre og Romsdal	41 359	685 499	16,57	4 279	74 470	17,40
Vestland	86 877	1 800 653	20,73	12 360	185 885	15,04
Rogaland	21 256	527 986	24,84	925	17 658	19,09
Other counties	11 233	258 207	22,99	138	1 429	10,36
Total	412 920	7 125 322	17,26	18 157	286 947	15,80

Table 22. Atlantic salmon and rainbow trout. Sale of juvenile fish by size group in 2021, preliminary figures. Numbers in 1000 pieces

County	Juvenile fish					
	Laks			Regnbueørret		
	< 250 gram	> 250 gram	Total	< 250 gram	> 250 gram	Total
Troms og Finnmark	49 271	14 057	63 328	0	0	0
Nordland	87 410	10 257	97 667	0	0	0
Trøndelag	89 685	1 515	91 200	455	0	455
Møre og Romsdal	37 986	3 373	41 359	4 210	69	4 279
Vestland	67 514	19 363	86 877	7 948	4 412	12 360
Rogaland	15 047	6 209	21 256	925	0	925
Other counties	8 883	2 350	11 233	138	0	138
Total	355 796	57 124	412 920	13 676	4 481	18 157

Size groups:

< 250 gram = weight less than 250 gram

> 250 gram = weight higher than 250 gram

Sale of other fish species than Atlantic salmon and rainbow trout

Figure 9. Sale of other fish species 2011-2021

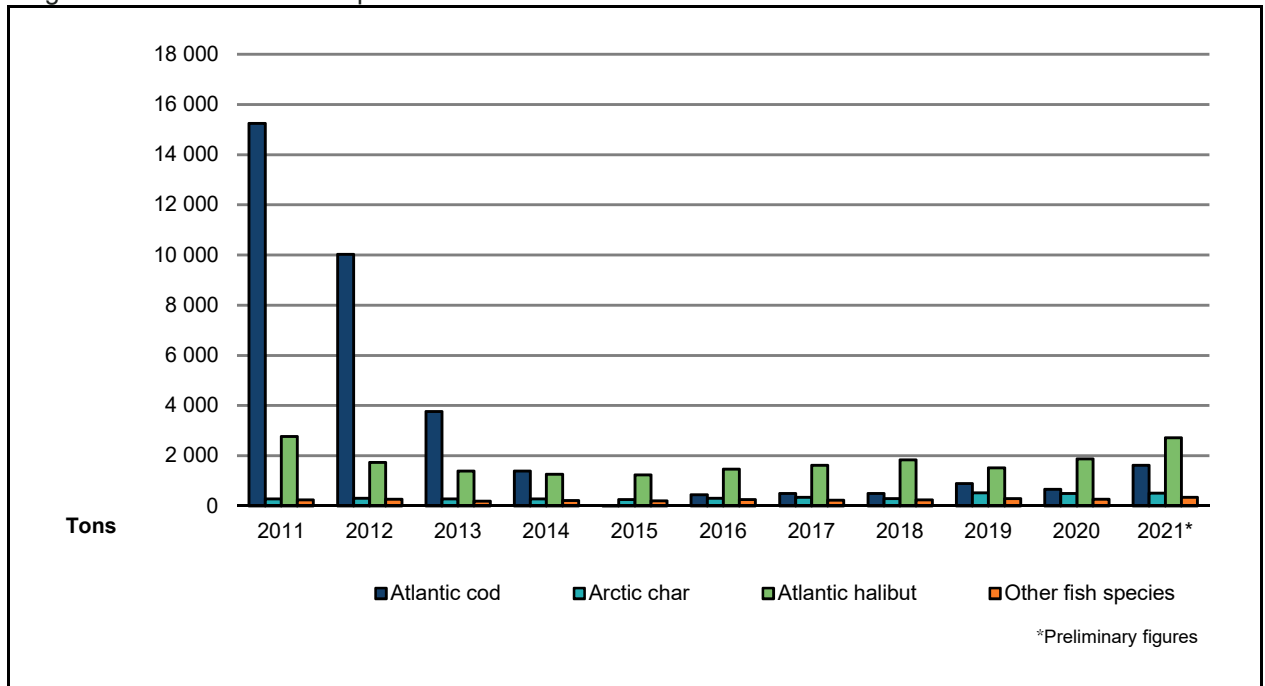


Table 23. Other fish species. Sale in 2021, preliminary figures. Quantity in metric tons round weight and value in 1000 NOK

County	Quantity	Value	Species	Quantity	Quantity
Troms og Finnmark	85	3 368	Atlantic cod	1 622	66 885
Nordland	313	15 605	Arctic char	505	30 726
Trøndelag	1 511	72 594	Atlantic halibut	2 716	267 074
Møre og Romsdal	637	70 413	Other species	350	29 108
Vestland	586	33 540	Total	5 193	393 793
Rogaland and other counties	2 061	198 273			
Total	5 193	393 793			

Table 24. Other fish species. Sale of juveniles in 2021, preliminary figures. Quantity in 1000 pieces and value in 1000 NOK

Species	Quantity	Value
Atlantic cod	7 119	49 823
Arctic char	1 070	3 604
Atlantic halibut	504	33 997
Other species	162	0
Total	8 855	87 424

Sale of molluscs, crustaceans and echinoderms

Figure 10. Gross sale of molluscs, crustaceans and echinoderms 2011-2021

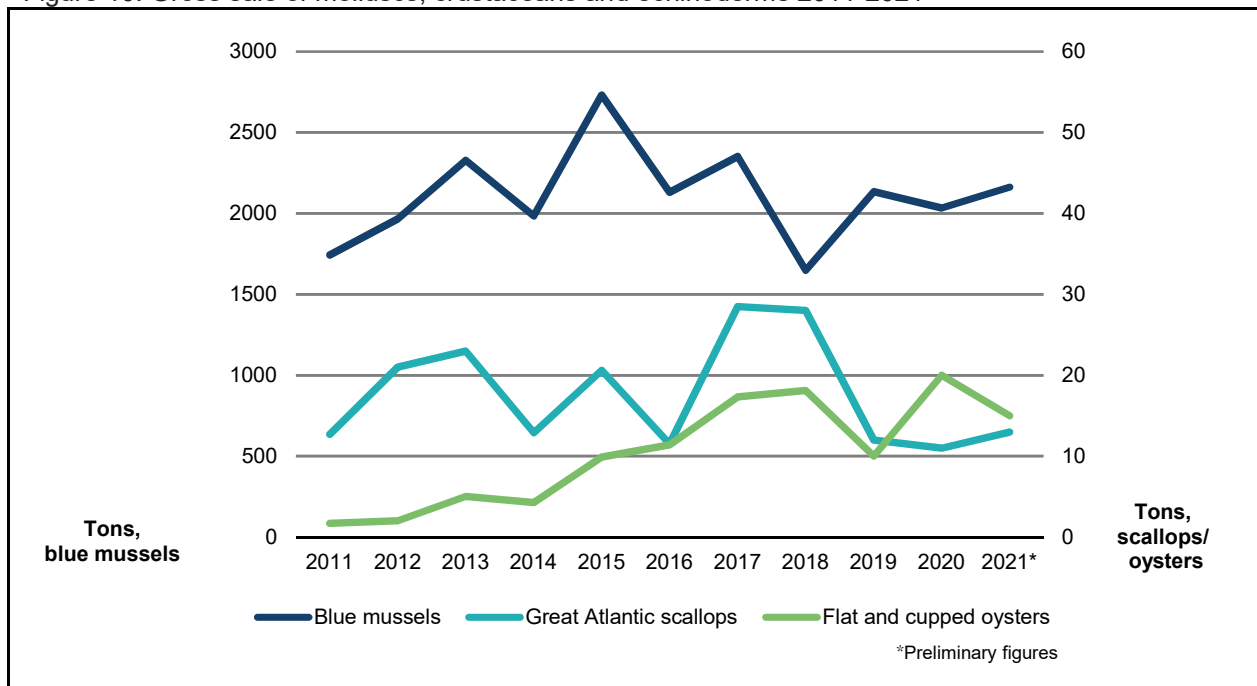


Table 25. Molluscs, crustaceans and echinoderms. Sale in 2021, preliminary figures. Quantity in metric tons and value in 1000 NOK

County	Quantity	Value	Species	Quantity	Value
Troms og Finnmark	:	:	Blue mussels	2 163	24 474
Nordland	859	7 971	Great Atlantic scallops	13	780
Trøndelag	1 192	15 887	Oysters	15	906
Møre og Romsdal	:	:	Others species	73	4 147
Hordaland	91	1 690	Total	2 263	30 307
Rogaland	1	199			
Other counties	110	600			
Total	2 263	30 307			

Sale of farmed algae

Figur 11. Harvesting of farmed algae 2015-2021

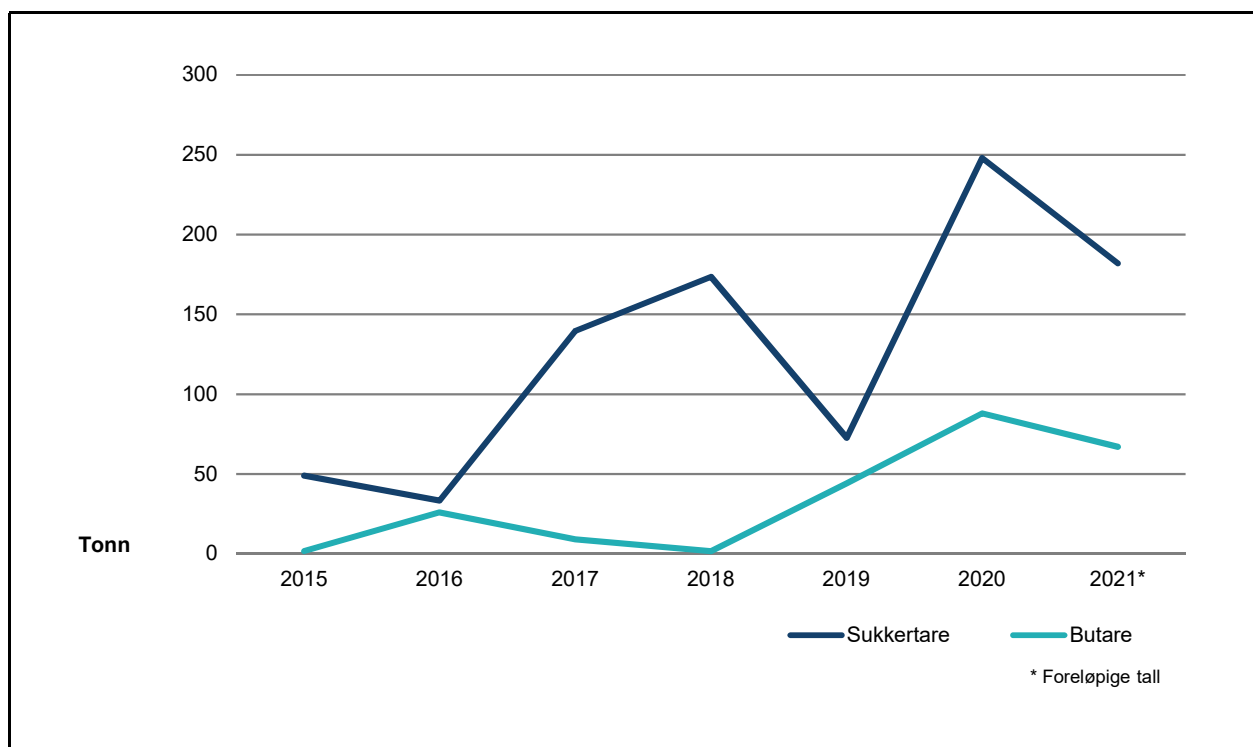


Table 26. Algae. Harvesting for feed and human consumption in 2021, preliminary figures. Quantity in metric tons and value in 1000 NOK

Species	Quantity	Value
Sea belt	182	3 739
Babberlocks	67	2 535
Others species	0	0
Total	249	6 274

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, counting mistakes and other causes.

Table 27. Atlantic salmon. Losses in the production in 2021, preliminary figures. Quantity in 1000 pieces

County	Dead	Rejected	Escapes	Others	Total
Troms og Finnmark	9 867	801	20	2 230	12 918
Nordland	6 466	180	1	2 453	9 101
Trøndelag	8 744	290	40	1 765	10 838
Møre og Romsdal	5 362	593	0	187	6 141
Vestland	13 481	1 190	0	348	15 019
Rogaland	4 747	501	0	623	5 871
Other species	433	43	0	100	576
Total	49 100	3 597	61	7 706	60 464

Table 28. Rainbow trout. Losses in the production in 2021, preliminary figures. Quantity in 1000 pieces

County	Dead	Rejected	Escapes	Others	Total
Troms og Finnmark	0	0	0	0	0
Nordland	11	1	0	130	142
Trøndelag	5	0	0	7	12
Møre og Romsdal	506	1	0	0	507
Vestland	1 923	187	8	233	2 350
Rogaland	32	6	0	15	53
Other species	9	0	0	0	9
Total	2 485	195	8	385	3 073

Table 29. Other fish species. Losses in the production in 2021, preliminary figures. Quantity in 1000 pieces

County	Dead	Rejected	Escapes	Others	Total
Troms og Finnmark	9	0	1	0	10
Nordland	168	14	0	0	183
Trøndelag	579	21	0	0	600
Møre og Romsdal	52	0	0	15	67
Vestland	195	23	0	64	281
Rogaland and other counties	142	13	0	0	155
Total	1 145	70	1	79	1 296

7. Cleaner fish

Source: The Directorate of Fisheries

Use of cleaner fish

Figure 12. Number of cleaner fish in the cages with Atlantic salmon and rainbow trout 2011-2021

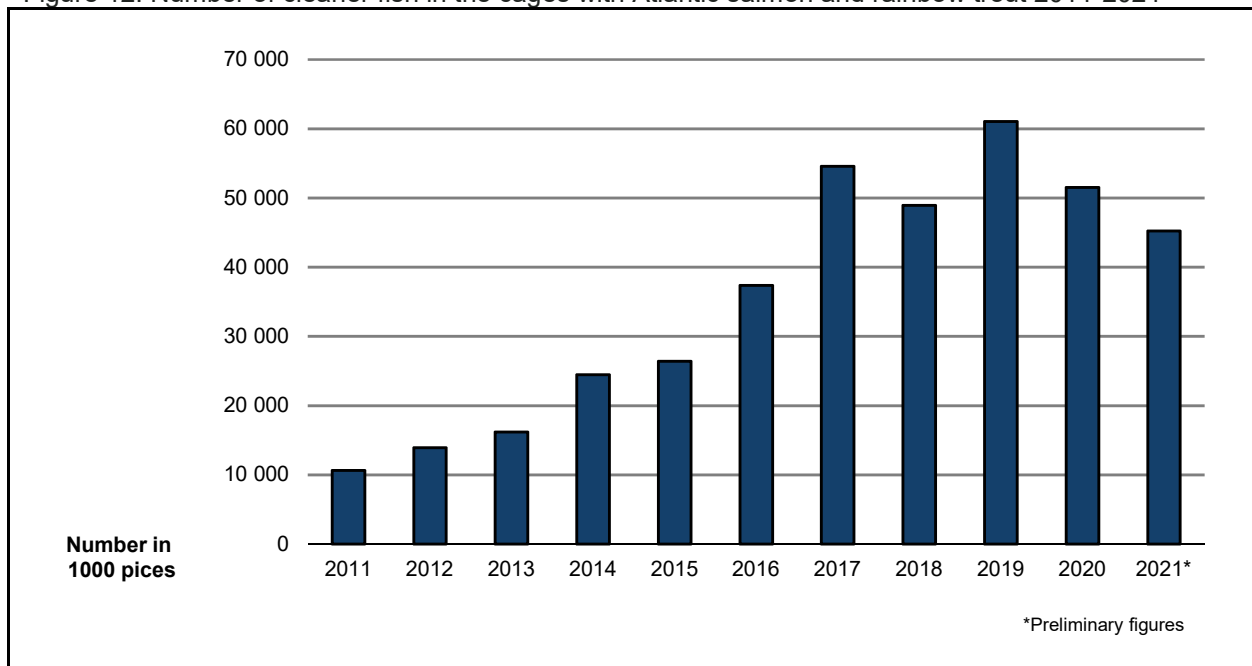
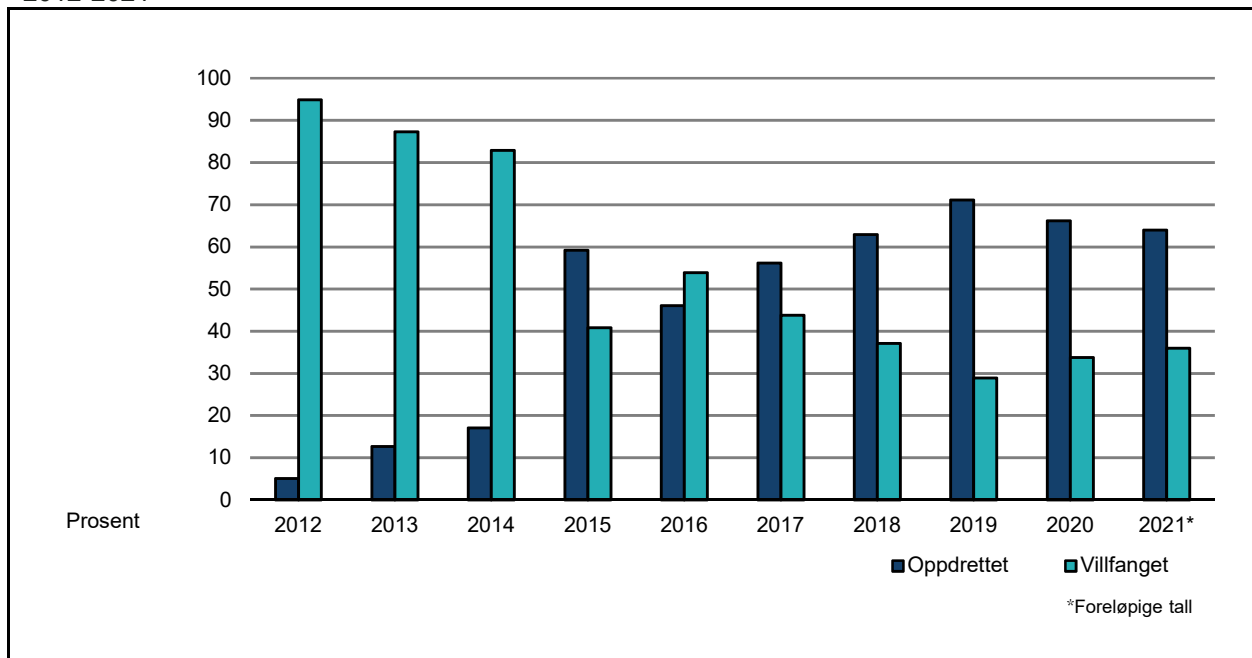


Figure 13. Percentage of farmed and wild catch cleaner fish with Atlantic salmon and rainbow trout 2012-2021



Use of cleaner fish

Table 30. Number of cleaner fish (farmed and wild catch) in the cages with Atlantic salmon and rainbow trout in 2021, preliminary figures. Numbers in 1000 pieces and value in 1000 NOK

County	Number	Value
Troms og Finnmark	3 081	58 892
Nordland	3 494	73 691
Trøndelag	10 143	252 245
Møre og Romsdal	3 844	116 166
Vestland	17 740	381 239
Rogaland	6 211	128 728
Øvrige fylker	713	14 294
Total	45 225	1 025 254

Table 31. Total number of cleaner fish (farmed and wild catch) in the cages with Atlantic salmon and rainbow trout by species in 2021, preliminary figures. Number in 1000 pieces and value in 1000 NOK

Species	Number	Value
Lumpfish	27 341	557 160
Ballan wrasse	4 599	227 171
Goldsinny wrasse	6 256	124 008
Corkwing wrasse	6 908	114 989
Rock cook	120	1 927
Non specified	0	0
Total	45 225	1 025 254

Farmed cleaner fish

Table 32. Sale of farmed cleaner fish to producers of Atlantic salmon and rainbow trout in 2021, preliminary figures. Numbers in 1000 pieces and value in 1000 NOK

County	Number	Value
Ballan wrasse	2 640	181 524
Lumpfish	21 688	407 766
Other species	0	0
Total	24 327	589 290

8. Export

Source: Norwegian Seafood Council

Figure 14. Main markets for Atlantic salmon in 2021, based on sales quantity

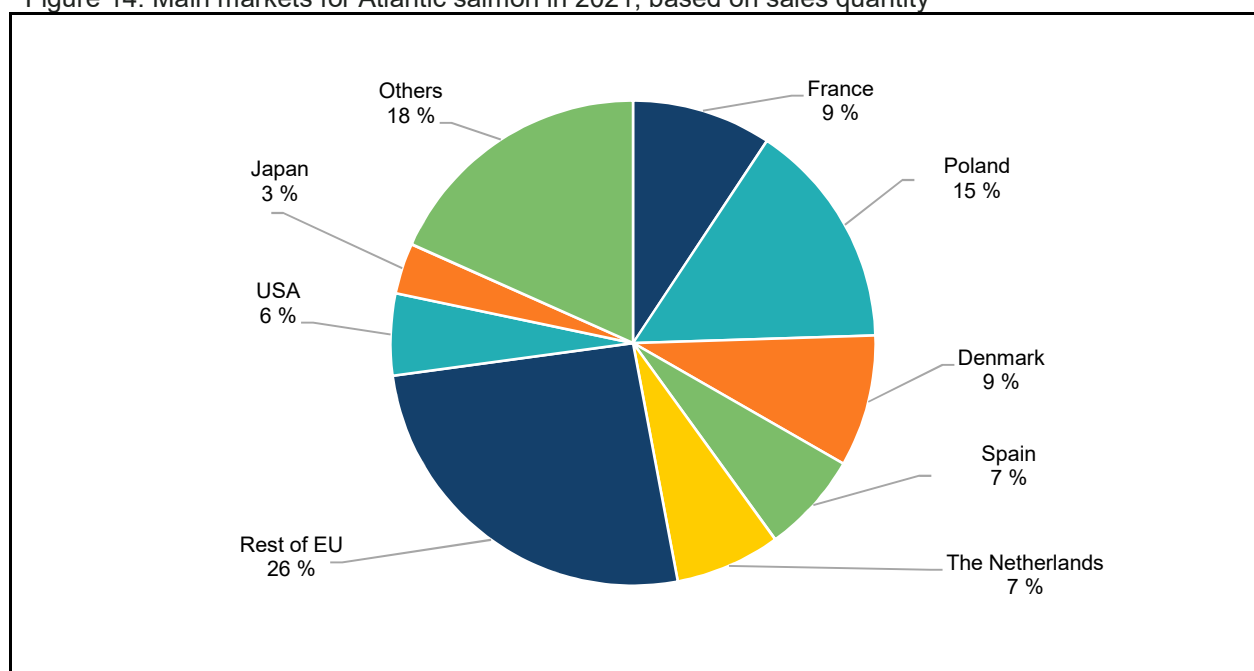


Table 33. Atlantic salmon. Export specified by country. Weight in metric tons (round weight) and value in 1000 NOK

Salmon, round	2020			2021			Changes (%)	
	Weight	Value	NOK/kg	Weight	Value	NOK/kg	Weight	Value
France	121 370	6 532 083	53,82	138 255	7 505 255	54,29	14 %	15 %
Poland	210 588	9 807 377	46,57	225 612	10 729 031	47,56	7 %	9 %
Denmark	124 502	5 777 596	46,41	130 375	6 547 030	50,22	5 %	13 %
Spain	86 099	4 625 968	53,73	99 930	5 493 221	54,97	16 %	19 %
The Netherlands	84 341	4 442 175	52,67	104 315	5 554 224	53,24	24 %	25 %
Great Britain	73 960	4 001 686	54,11	69 475	3 754 349	54,04	-6 %	-6 %
Rest of EU	292 100	15 267 897	52,27	313 643	16 934 148	53,99	7 %	11 %
EU	992 959	50 454 781	50,81	1 081 605	56 517 258	52,25	9 %	12 %
USA	67 799	5 061 459	74,65	80 907	5 692 876	70,36	19 %	12 %
Japan	42 997	2 590 019	60,24	50 315	2 863 084	56,90	17 %	11 %
South-Korea	35 648	2 207 997	61,94	44 494	2 845 071	63,94	25 %	29 %
Others countries	174 562	9 764 375	55,94	227 520	13 350 707	58,68	30 %	37 %
Total	1 313 966	70 078 633	53,33	1 484 841	81 268 996	54,73	13 %	16 %

Table 34. Atlantic salmon. Export specified by product. Weight in metric tons (round weight) and value in 1000 NOK

Product	2020			2021			Changes (%)	
	Weight	Value	NOK/kg	Weight	Value	NOK/kg	Weight	Value
Fresh fish	1 042 930	52 801 789	50,63	1 156 886	61 099 944	52,81	11 %	16 %
Fresh filet	155 833	9 775 279	62,73	189 723	11 585 509	61,07	22 %	19 %
Frozen fish	17 450	882 993	50,60	26 531	1 346 181	50,74	52 %	52 %
Frozen filet	83 668	5 679 617	67,88	96 456	6 273 065	65,04	15 %	10 %
Other products	14 085	938 955	66,67	15 245	964 297	63,25	8 %	3 %
Total	1 313 966	70 078 633	53,33	1 484 841	81 268 996	54,73	13 %	16 %

Figure 15. Main markets for rainbow trout in 2021, based on sales quantity

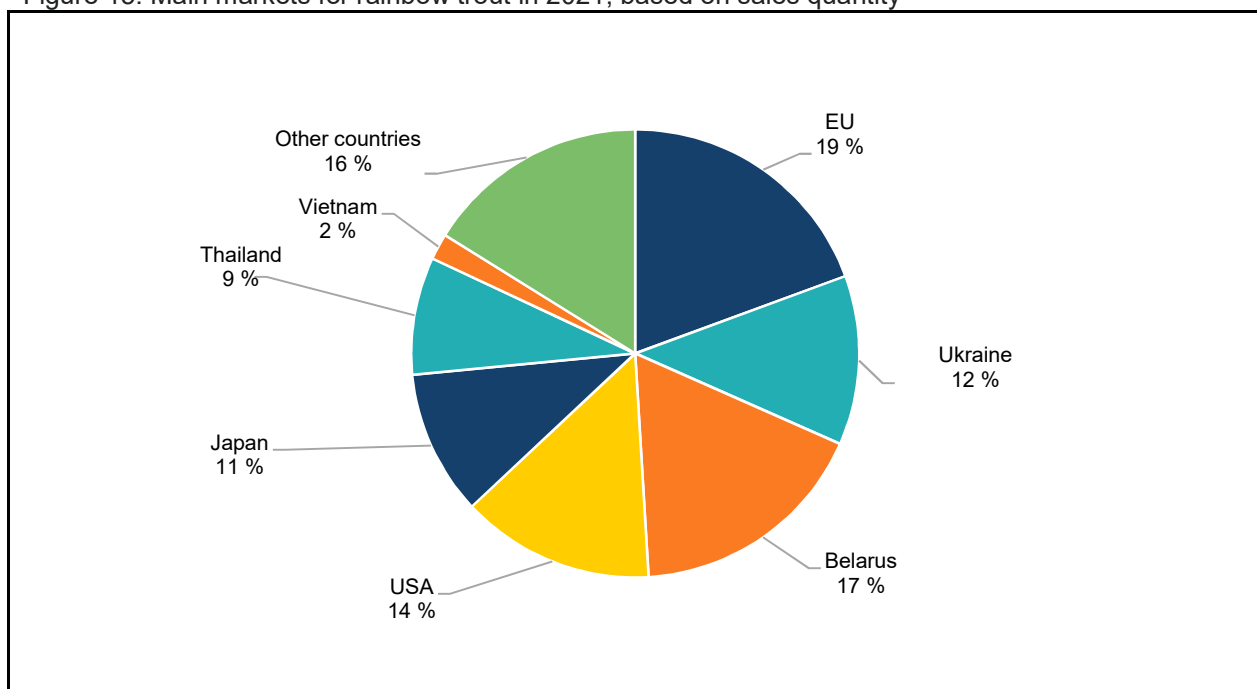


Table 35. Rainbow trout. Export specified by country. Weight in metric tons (round weight) and value in 1000 NOK

Rainbow trout, round	2020			2021			Changes (%)	
	Weight	Value	NOK/kg	Weight	Value	NOK/kg	Weight	Value
EU	24 468	991 980	40,54	15 103	721 173	47,75	-38 %	-27 %
Ukraine	13 026	485 909	37,30	9 520	417 677	43,87	-27 %	-14 %
Belarus	9 807	400 146	40,80	13 571	700 625	51,63	38 %	75 %
USA	9 079	450 787	49,65	10 877	550 650	50,63	20 %	22 %
Japan	6 345	327 567	51,62	8 137	448 923	55,17	28 %	37 %
Thailand	5 583	271 848	48,69	6 620	372 263	56,23	19 %	37 %
Vietnam	3 342	138 987	41,59	1 468	72 999	49,74	-56 %	-47 %
Other countries	15 304	799 315	52,23	12 572	759 351	60,40	-18 %	-5 %
Total	86 954	3 866 539	44,47	77 868	4 043 661	51,93	-10 %	5 %

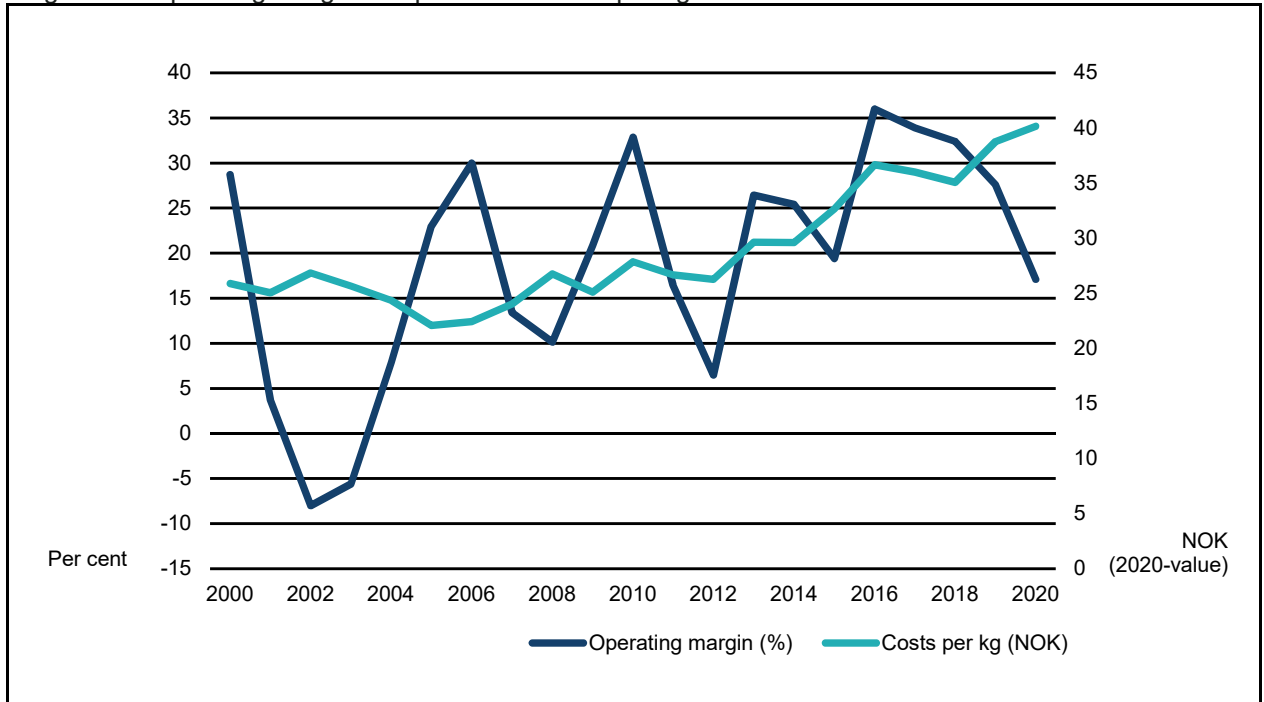
Table 36. Rainbow trout. Export specified by product. Weight in metric tons (round weight) and value in 1000 NOK

Product	2020			2021			Changes (%)	
	Weight	Value	NOK/kg	Weight	Value	NOK/kg	Weight	Value
Fresh fish	59 025	2 573 171	43,59	48 905	2 546 300	52,07	-17 %	-1 %
Fresh filet	5 910	328 968	55,67	7 065	401 902	56,89	20 %	22 %
Frozen fish	14 809	550 295	37,16	12 600	546 554	43,38	-15 %	-1 %
Frozen filet	5 217	228 854	43,86	6 778	317 252	46,80	30 %	39 %
Other products	1 993	185 250	92,94	2 520	231 654	91,93	26 %	25 %
Total	86 954	3 866 539	44,47	77 868	4 043 661	51,93	-10 %	5 %

9. Economic

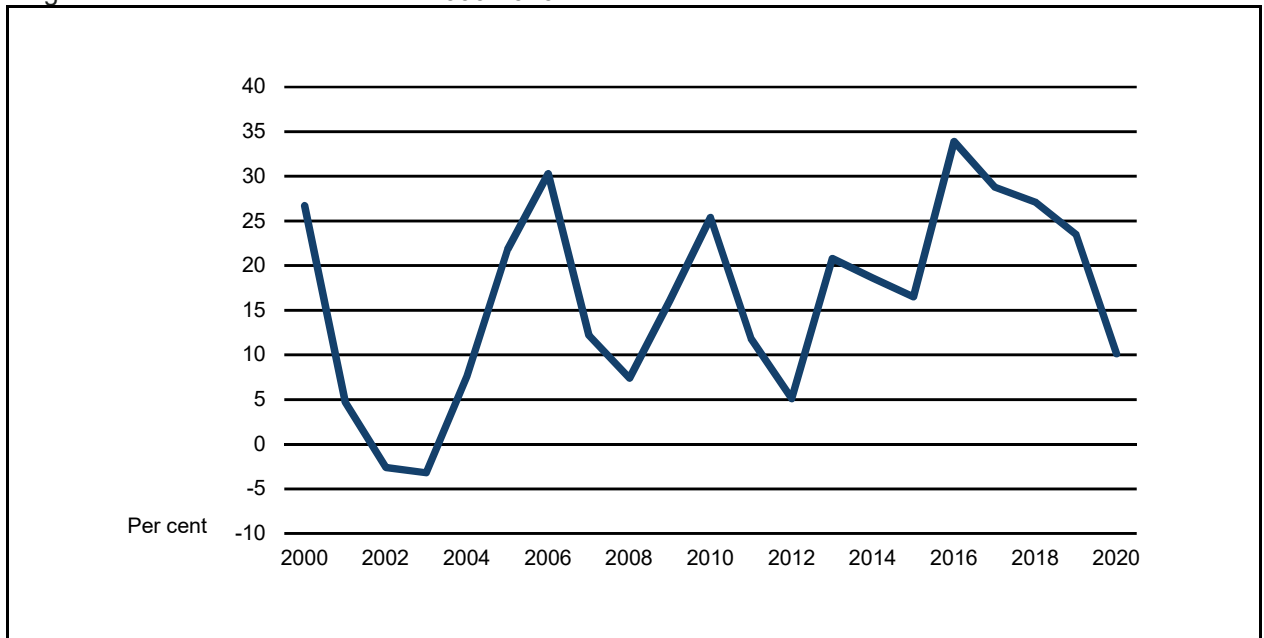
Source: The Directorate of Fisheries

Figure 16. Operating margin and production costs per kg 2000-2020¹⁾



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

Figure 17. Return on Total Assets 2000-2020



Key figures

Definitions:

- Return on Total Assets = ((Operating Profit + Financial Revenues) / Total Assets) * 100
- Operating Margin = (Operating Profit / Operating Revenues) * 100
- Quick Ratio = (Total tangible fixed assets / Current liabilities) * 100
- Equity Ratio = (Total equity / Total assets) * 100

Table 37. Atlantic salmon and rainbow trout. Key figures in average per company in 2020. Figures in per cent

	Grow out production	Hatcheries
Return on Total Assets	10,1	6,8
Operating Margin	17,1	14,1
Quick Ratio	224,5	157,1
Equity Ratio	46,1	36,6

Costs

Table 38. Atlantic salmon and rainbow trout. Costs per kg produced fish (round weight) in average per company in 2020. Numbers in NOK.

	Grow out production
Smolt costs per kg	4,14
Feeding costs per kg	16,62
Insurance costs (fish) per kg	0,16
Wages and salaries per kg	3,22
Depreciation per kg	2,64
Other operating expenses per kg	9,71
Net Financial Expenses per kg	-0,39
Slaughter costs and freight charges per kg	4,05
Costs per kg	40,15

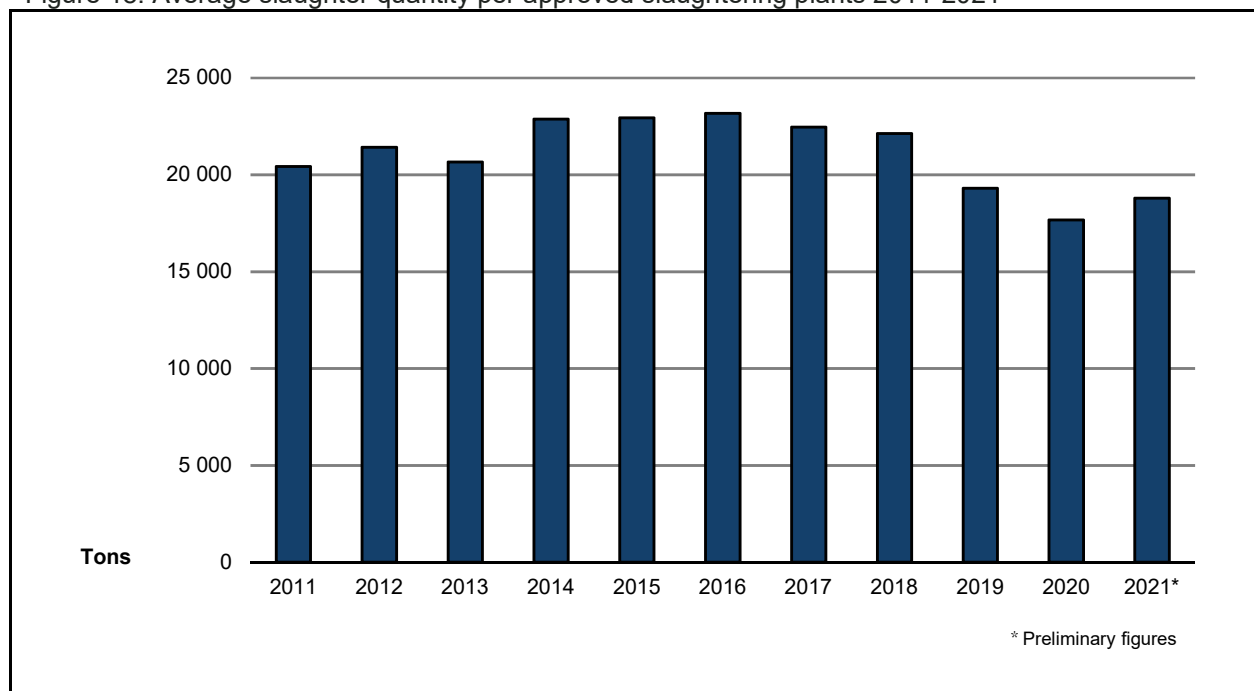
Table 39. Atlantic salmon and rainbow trout. Costs per number sold fry and smolt in average per company in 2020. Numbers in NOK.

	Hatcheries
Roe and fry costs	2,07
Feeding costs	2,54
Insurance	0,15
Vaccination costs.	2,05
Wages and salaries	2,25
Depreciation	1,86
Electricity costs	0,67
Other operating expenses	2,81
Net financial expenses	0,40
Costs per sold fry and smolt	14,81

10. Approved slaughtering plants for salmonids

Source: The Norwegian Food Safety Authority

Figure 18. Average slaughter quantity per approved slaughtering plants 2011-2021



Definition:

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 40. The number of approved slaughtering plants for farmed salmonids

County	2017	2018	2019	2020	2021
Troms og Finnmark	12	12	12	14	13
Nordland	14	13	13	13	14
Trøndelag	9	10	11	10	9
Møre og Romsdal	5	5	6	8	11
Vestland	13	17	28	29	32
Rogaland	4	3	3	4	4
Other counties	1	1	2	6	4
Total	58	61	75	84	87

11. Related activities

Insurance

Source: Finance Norway (FNO)

Table 41. Insurance of farmed fish in Norway. Amount in mill NOK

	2017	2018	2019	2020	2021
Premium	220.7	222.2	226.0	238.1	254.0
Compensation	211.0	178.4	271.7	143.7	189.0
Accident index	96 %	80 %	120 %	60 %	74 %

Use of veterinary drugs

Source: Norwegian Institute of Public Health

Table 42. Use of veterinary drugs¹⁾ in the Norwegian fish farming industry. Quantity in kg

	2017	2018	2019	2020	2021
Antibacterial agents	626	933	213	229	605
Agents against lice	2 450	779	1 757	3 014	4 359
Hydrogen peroxide	9 277 000	6 735 000	4 523 000	5 084 000	4 060 000
Agents against intestinal worms	380	171	50	123	40
Agents against surface infections	48 040	42 714	43 049	52 923	47 772
Anaesthetic agents	15 422	13 670	16 536	18 665	18 263

1) The different drugs are used and dosed differently, and the total number in kg can therefore not be summed up

Use of feed

Source: Norwegian Seafood Federation

Table 43. Use of feed in the Norwegian fish farming industry. Quantity in metric tons

Month	2017	2018	2019	2020	2021
January	117 177	111 245	119 328	121 137	134 373
February	89 099	91 459	94 181	99 580	103 544
March	91 738	85 777	96 932	115 336	120 938
April	93 215	84 004	116 947	113 603	125 735
May	111 428	127 722	137 246	119 340	148 043
June	146 339	150 674	155 564	157 964	191 123
July	185 712	186 799	200 457	201 533	233 677
August	235 135	225 058	227 255	234 384	263 619
September	215 768	209 187	224 865	236 961	261 558
October	223 144	221 382	205 478	230 930	250 724
November	175 905	195 630	168 718	193 564	201 839
December	144 577	152 454	147 794	164 770	157 880
Total	1 829 236	1 841 391	1 894 766	1 989 103	2 193 053

Well boats

Source: The Association of Coastal Ship-owners

Tabell 44. The number of well boats¹⁾

County	2017	2018	2019	2020	2021
Troms og Finnmark	5	4	1	1	2
Nordland	11	7	10	2	3
Trøndelag	6	0	7	15	16
Møre og Romsdal	36	51	40	55	64
Vestland	8	7	15	14	19
Rogaland	0	0	9	0	1
Other counties	0	0	4	8	0
Total	66	69	86	95	105

1) Based on members in the Association of Coastal Ship-owners



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