

[Scottish Salmon Watch](#), 5 February 2019

PARLIAMENT GRILLS SCOTTISH SALMON

The Scottish Parliament's main chamber will [debate salmon farming tomorrow afternoon](#) (Wednesday 6 February) - watch live via Scottish Parliament TV [online here](#).

 FUTURE BUSINESS Gnothaichean ri teachd



WEDNESDAY 06 FEBRUARY 2019

<	Sat 2nd	Sun 3rd	Mon 4th	Tue 5th	Wednesday 6th February 2019	Thu 7th	Fri 8th	Sat 9th	Sun 10th	>
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Parliament Business 

Committee Business / SCPA 

1:30pm  Parliamentary Bureau Motions

1:30pm  Ministerial Statement: Brexit - Preparations In the light of recent developments

 Portfolio Questions

 Rural Economy and Connectivity Committee Debate: Inquiry into Salmon farming in Scotland

followed by **COMMITTEE DEBATE**

Edward Mountain **S5M-15677** 

Report on Salmon Farming in Scotland

That the Parliament notes the conclusions in the Rural Economy and Connectivity Committee's 9th Report, 2018 (Session 5), *Report on Salmon Farming in Scotland* (SP Paper 432).

A [motion filed by Edward Mountain MSP](#) follows up damning reports [published by the Rural Economy and Connectivity Committee in November 2018](#) and [by the Environment, Climate Change and Land Reform Committee in March 2018](#).



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Motion S5M-15677: Edward Mountain, Highlands and Islands, Scottish Conservative and Unionist Party, Date Lodged: 31/01/2019
Report on Salmon Farming in Scotland

That the Parliament notes the conclusions in the Rural Economy and Connectivity Committee's 9th Report, 2018 (Session 5), *Report on Salmon Farming in Scotland* (SP Paper 432).

Supported by: Gail Ross

Current Status: Due in Chamber on 06/02/2019

"It is essential that the serious challenges it [salmon farming] faces such as the control of sea lice, lowering fish mortality rates and reducing the sector's impact on the environment are addressed as a priority," [said Edward Mountain MSP in a press release in November 2018](#).

Read more via:

[MSPs seek tougher rules amid fears on disease in fish farms](#)

[Action needed to protect wild salmon from fish farming, report finds](#)

[Producers should be barred from opening new fish farms near wild salmon routes, say MSPs](#)

[MSPs demand tougher regulation for fish farming](#)

[Stricter rules could close salmon farms](#)

[One in five Scottish fish farms 'not meeting standards'](#)

[MSPs warning over salmon farming impact on environment](#)

"Salmon farming is an environmental and welfare nightmare," said [Don Staniford, Director of Scottish Salmon Watch](#) who has [captured the industry's problems on camera](#). "Infectious diseases, mass mortalities, lice infestations and toxic chemical dependence are problems plaguing this dirty rotten industry. Scottish salmon farming is a pariah not a panacea. Factory farming of Scotland's iconic fish has transformed salmon from a revered leaper into a reviled leper. Cheap and nasty Scottish salmon leaves a bad taste in the mouth."



Video reports from Don Staniford available [online here](#)

Contact:

Don Staniford in Edinburgh on 07771 541826 (salmonfarmingkills@gmail.com)

The Skinny on Scottish Salmon

[Scottish Salmon Watch](#) points to ten issues worthy of consideration in any discussion of salmon farming in Scotland:

1) Salmon farming production is predicted to fall over 20% from 190,000 tonnes in 2017 to 151,000 tonnes in 2018 according to the latest official survey published by the Scottish Government with infectious diseases and mass mortalities cited as escalating problems [1].



2) Infectious diseases, pathogens, viruses and bacteria officially reported on salmon farms by the Scottish Government's Fish Health Inspectorate include Salmon Gill Poxvirus, Proliferative Gill Disease, Pancreas Disease, Cardiomyopathy Syndrome, Heart & Skeletal Muscle Inflammation, Piscine Reovirus and Anaemia. Despite threats of legal action, the Scottish Government were forced via Freedom of Information to publish shocking photos of disease-ridden salmon in 2018 [2].



3) Mass mortalities on Scottish salmon farms leapt from 5.5 million in 2010 to an estimated 15-20 million in 2017 (SEPA stopped publishing mortality numbers in 2013 following industry lobbying). Salmon farms suffer from a mortality rate of over 20% in the sea phase of production and nearly 50% during the entire life-cycle from egg to plate with 25,000 tonnes of mortalities in 2017 (up from 7,000 tonnes in 2010) [3].



4) Damning reports by OneKind on the welfare of farmed salmon and cleaner fish were published during 2018 together with shocking video evidence of welfare abuse on salmon farms. Moving salmon farms further offshore will only serve to exacerbate welfare problems from storm and tidal damage including farmed salmon being skinned alive [4].



5) Salmon farmers have killed over 850 seals (and one humpback whale) since 2011 with Acoustic Deterrent Devices impacting on cetaceans around Scotland in contravention of the EU Habitats Directive [5].

6) Over 4 million salmon have escaped from farms in Scotland in over 200 incidents since 1998 with scientific research showing that one in four 'Scottish' salmon are now genetically polluted with the genes of Norwegian farmed salmon stock [6].

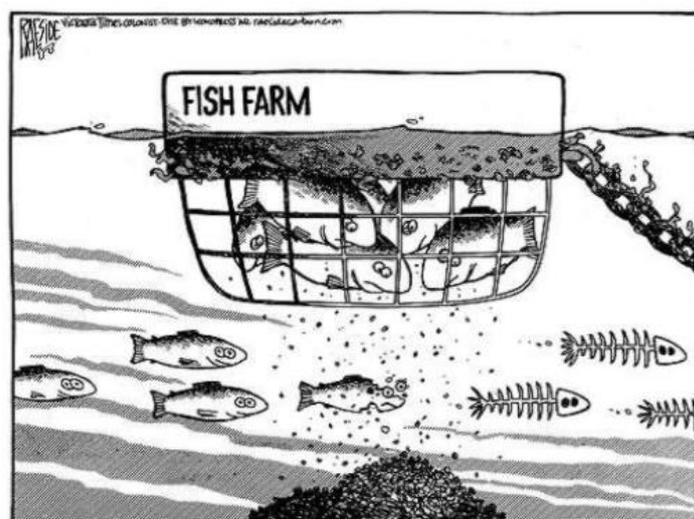
7) 90% of 'Scottish' salmon is sourced from imported ova (eggs) from Norway, Iceland and Ireland even though Norway prohibits the import of ova from Scotland due to disease and genetic risks [7].

8) The use of toxic chemicals on salmon farms increased by almost 1000% between 2006 and 2016 with the use of Azamethiphos and Deltamethrin via well-boats, Hydrogen Peroxide and antibiotics not even publicly reported via Scotland's Aquaculture web-site. Following a scientific report in 2016 on the lethality of Emamectin benzoate (SLICE) to shellfish, SEPA proposed to ban the use of the toxic chemical but backed down following lobbying by the industry [8].



9) Only 1 in 10 of salmon farm inspections by SEPA are announced (i.e. advance notice was given) with SEPA failing to prosecute or fine a single salmon farm in the last decade [9].

10) Salmon farms use the pristine Scottish environment as an open sewer discharging untreated waste effluent including toxic chemicals, nitrogen, phosphorus, carbon and cancer-causing chemicals such as PCBs and dioxins. In a report to the Scottish Parliament in 2018, the Scottish Association of Marine Science calculated that a single salmon farm discharged the waste equivalent of an entire town [10].



Background reading via:
[Scottish Salmon Farming 101](#)
[25 Years of Scottish Salmon Shame](#)
[25 Reasons to Boycott Scottish Salmon](#)

Scottish Salmon's Diary of Disaster

January 2019 - A [petition filed by Marine Concern with the Scottish Parliament](#) urged the Scottish Government to ensure that the salmon farming industry solely utilises closed-containment [amid concern over damage caused to marine life and the seabed](#).

December 2018 - Primetime French TV broadcast a report - '[The Menace of Scottish Farmed Salmon](#)' - showing welfare and environmental problems.



December 2018 - OneKind [published a report](#) calling for the suspension on the use of 'cleaner fish' on salmon farms due to [serious welfare issues](#).

November 2018 - The Rural Economy & Connectivity Committee [published a critical report](#) part of the Scottish Parliament's [inquiry into salmon farming in Scotland](#).

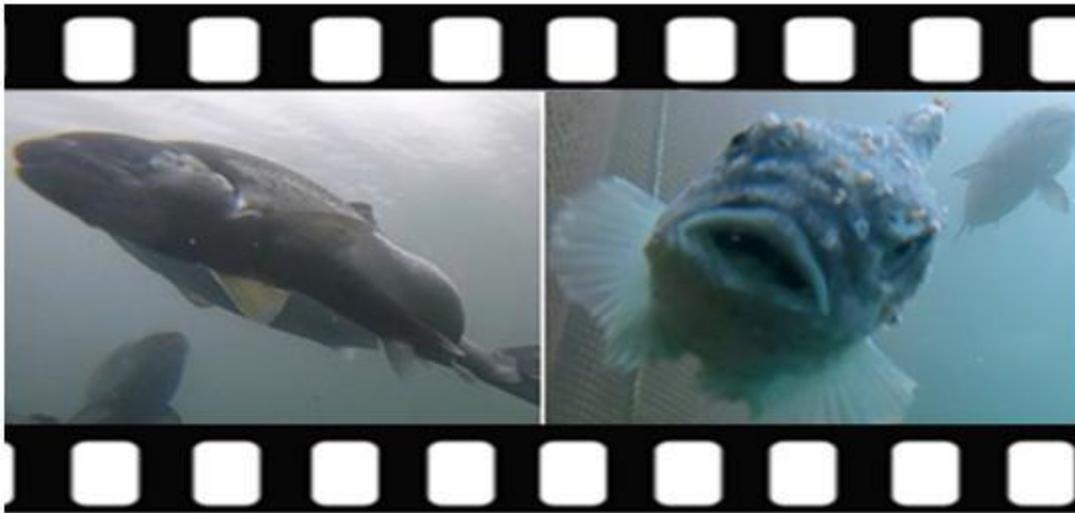
November 2018 - [SEPA warned](#) that chemicals used by salmon farming industry were "significantly impacting" Scotland's coastal waters [with a report detailing Emamectin benzoate contamination in 98% of sediment samples tested](#).

October 2018 - [STV News reported on the "nightmares"](#) for Scottish salmon farming following a [damning report on non-compliance](#) by SEPA.

September 2018 - The BBC's 'The One Show' [broadcast a damning report](#) on lice-infested salmon in Loch Roag [featuring shocking video footage from photographer Corin Smith](#).



September 2018 - Scottish Salmon Watch [published shocking footage](#) of deformities and lice infestation of both farmed salmon and 'cleaner fish' in salmon farms in Loch Fyne and Loch Spelve.



August 2018 - A report - "[Fish Welfare on Scotland's Salmon Farms](#)" - published by OneKind exposed a number of [welfare breaches](#) including mass mortality, sea lice infestations, disease and escapes.

August 2018 - Mortality data [published by the Scottish Salmon Producers Organisation](#) revealed shocking levels of mortalities [due to gill health, diseases and anaemia](#) with a jaw-dropping [58% mortality rate reported at the Scottish Salmon Company's site at Inch Kenneth](#).

July 2018 - Scottish Salmon Watch [filed a legal complaint](#) with Police Scotland for breaches of the Animal Health & Welfare (Scotland) Act 2006 by Marine Harvest, Scottish Sea Farms, The Scottish Salmon Company, Cooke Aquaculture, Grieg Seafood and Loch Duart.

June 2018 - Gruesome photos of deformed, disfigured, damaged and diseased farmed salmon were [published by The Ferret](#) following a [FOI disclosure by the Scottish Government](#).



May 2018 - Scottish Salmon Watch [revealed](#) that salmon farms in Scotland were fast-tracking the harvesting of fish due to infectious diseases, lice infestation and mortalities.

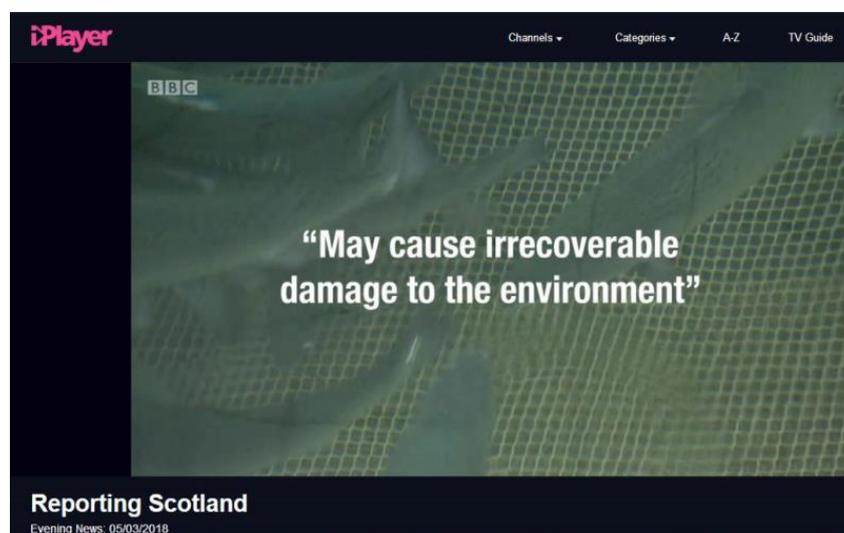
May 2018 - A [43,000-strong petition by SumOfUs](#) calling for the testing of salmon farming operations for infectious diseases, pathogens and viruses was [delivered to the Scottish Government](#).

March 2018 - [300,000 fish died at Marine Harvest's salmon farm at Carradale](#) - despite a [denial by Marine Harvest](#).



March 2018 - A [dossier of data on lice, diseases and mortalities](#) was submitted to the Rural Economy & Connectivity Committee as part of the Scottish Parliament's [inquiry into salmon farming in Scotland](#).

March 2018 - A [damning report on the environmental impacts of salmon farming](#) was published by the Scottish Parliament's [Environment, Climate Change and Land Reform Committee](#) who warned of "[irrecoverable damage](#)".



February 2018 - Data disclosed via FOI [revealed](#) mortality and disease problems at salmon farms operated by Marine Harvest, Scottish Sea Farms and The Scottish Salmon Company.

January 2018 - A [Parliamentary Reply from Fergus Ewing revealed](#) that the mortality rate on Scottish salmon farms was a staggering 26.7% with nearly 13 million dead farmed salmon.

January 2018 - The Global Alliance Against Industrial Aquaculture [filed a complaint with the European Commission](#) regarding a breach of the Animal By-Products Regulations and the failure to properly police the transport of dead farmed salmon.

December 2017 - The BBC's 'One Show' [broadcast damning footage](#) of leaking haulage trucks disposing of diseased farmed salmon on ['The Dead Salmon Run'](#).



November 2017 - The Sunday Herald [revealed](#) that the tonnages of dead farmed salmon that had to be disposed of has more than doubled from 10,599 tonnes in 2013 to a record high of 22,479 in 2016 (the Herald [revealed](#) in March 2018 that over 25,000 tonnes died in 2017).

July 2017 - [Salmon & Trout Conservation Scotland estimated](#) that 20 million farmed salmon die each year on salmon farms despite ca. 70% of the salmon farming industry being certified as [RSPCA Assured](#).



Notes to Editors:

[1] According to the [latest official data](#), 2018 salmon farming production is predicted to be 150,774 tonnes (a fall of 21% from 189,707 tonnes in 2017).

3. ATLANTIC SALMON – PRODUCTION

Production

Production survey information was collected from all 12 companies actively involved in Atlantic salmon production, farming 226 active sites. This figure represents the entire industry operating in Scotland.

Table 24: Annual production of salmon (tonnes) during 1997-2017 and projected production in 2018

Year	Tonnes	Percentage difference	Year	Tonnes	Percentage difference
1997	99,197	19	2008	128,606	-1
1998	110,897	12	2009	144,247	12
1999	126,686	14	2010	154,164	6.9
2000	128,959	2	2011	158,018	2.5
2001	138,519	7	2012	162,223	2.7
2002	144,589	4	2013	163,234	0.6
2003	169,736	17	2014	179,022	9.7
2004	158,099	-7	2015	171,722	-4.1
2005	129,588	-18	2016	162,817	-5.2
2006	131,847	2	2017	189,707	16.5
2007	129,930	-1.4	2018	150,774*	

*industry estimate of projected tonnage based on stocks currently being on-grown.

p21 of the Scottish Government's [2017 Scottish Fish Farm Production Survey](#) (October 2018)

Read more via:

[Scottish salmon production to drop 20.5% in 2018](#)

[Scotland's salmon windfall soars above £1bn, but production set to fall by fifth](#)

[Scots salmon producers report difficult start to year](#)

[Sea lice and disease behind Marine Harvest bid to save £44m](#)

[2] Watch a [video report from photographer Corin Smith](#) (broadcast by the BBC's 'One Show' in September 2018):



Photos available via:

[Scottish Salmon Company in Loch Roag](#)

[Whistleblower photos of Marine Harvest](#)
[Whistleblower photos of the Scottish Salmon Company](#)
[Photos: Dirty Rotten Scottish Salmon](#)
[Revealed: Photos shot inside Scottish salmon farms](#)

Read more via:

[Scottish salmon farms in disease hell row after tons of rotting fish dumped in skips](#)
[Underwater film reveals salmon with twisted spines as fears mount over cages](#)
[Sick salmon at Scottish fish farm revealed on film](#)
[Salmon firms bid to block diseased fish photos](#)
[New data reveals death and disease on Scotland's salmon farms](#)
[Horror photos of farmed salmon spark legal threat](#)
[EXPOSED: Gruesome Photos of Deformed & Diseased Scottish Salmon](#)
[Hard Evidence: Dossier of Data on Lice, Diseases & Mortalities at Scottish Salmon Farms](#)
[Disease concern as Scots salmon farmers' produce "stomach-churning" record levels of fish deaths](#)
[Emerging viruses in aquaculture](#)

More details via [Diseases](#)

[3] Watch a video posted by photographer Corin Smith in January 2019 [online here](#)



The image is a screenshot of a Facebook post. At the top, the profile picture of Corin Smith is visible next to the name 'Corin Smith - Inside Scottish Salmon Feedlots'. The post is dated 'January 29 at 6:11 AM'. The text of the post reads: 'This is what roughly 150 tonnes of dead farmed salmon looks like. In 2018 nearly 35,000 tonnes of salmon died on salmon farms in Scotland. Which equates to approx. 20% of total production. Research has shown it can take approximately 5kg of Anchovies and other wild fish stocks to produce 1kg of farmed salmon (that nearly doubles in the case of Label Rouge farmed salmon).... See More'. Below the text is a photograph showing a large, open-sided concrete skip filled with a massive quantity of dead, greyish-brown fish. The skip is situated in an outdoor area with some green grass and a building in the background. At the bottom of the screenshot, the engagement statistics are shown: 'Innes Smith, Billy Scott and 92 others', '17 Comments', '237 Shares', and '15K Views'.

Data published by Corin Smith [online here](#)

Here's a [Parliamentary Reply from Fergus Ewing in January 2018](#):

Question S5W-13432: Mark Ruskell, Mid Scotland and Fife, Scottish Green Party. Date Lodged: 14/12/2017

To ask the Scottish Government how many farmed salmon have died in each year since 2012.

Answered by Fergus Ewing (09/01/2018):

Scottish Government does not record farmed salmon mortalities by year but does maintain and publish the percentage of fish harvested from each year class in the Scottish Fish Farm Production Survey; <http://www.gov.scot/Topics/marine/Fish-Shellfish/FHL/surveys>. Mortality is included in the number of fish not harvested for human consumption, which also consists of fish which have escaped, have been culled for production reasons, have been removed for sampling purposes, statutory culls or have been selected for broodstock production.

A year class represents all smolts put to sea in any one year. The production cycle of any year class is complete within two years. The following table details the data from the 2010 year class onwards, as these fish will have contributed to mortality in 2012. The latest fin fish production survey was published in September 2017 and the most up to date information available is for the 2014 year class.

Year Class	Percentage of Fish Not Harvested	Number of Fish Not Harvested (millions)
2014	26.7%	12.85
2013	23.7%	9.7
2012	14.6%	6.0
2011	23.0%	9.83
2010	17.2%	6.62
Average	21.04%	9

Current Status: Answered by Fergus Ewing on 09/01/2018

The latest official data published by the Scottish Government shows a 79.1% survival rate (i.e. 20.9%) mortality in the sea phase of salmon farming production:

Year of smolt input	Smolt input (000s)	Harvest year 0				Harvest year 1				Harvest year 2				Total % of year class harvested	Year class weight (tonnes)	Yield per smolt (kg)
		Number (000s)	Weight (tonnes)	Mean weight (kg)	% harvest	Number (000s)	Weight (tonnes)	Mean weight (kg)	% harvest	Number (000s)	Weight (tonnes)	Mean weight (kg)	% harvest			
2000	45,185	765	2,673	3.5	17	22,726	96,539	4.2	50.3	11,354	53,535	4.7	25.1	77.1	152,747	3.38
2001	48,643	557	1,227	2.2	1.1	23,528	90,230	3.8	48.4	15,619	73,255	4.7	32.1	81.6	164,712	3.39
2002	50,086	272	824	3.0	0.5	22,602	96,205	4.3	45.1	15,555	71,988	4.6	31.1	76.7	169,017	3.37
2003	43,083	82	276	3.4	0.2	19,596	85,792	4.4	45.5	13,920	61,850	4.4	32.3	78.0	147,918	3.43
2004	39,041	168	319	1.9	0.4	15,075	67,738	4.5	38.6	14,237	67,537	4.7	36.5	75.5	135,594	3.47
2005	37,168	0	-	-	0	14,036	64,099	4.6	37.8	14,999	69,000	4.6	40.3	78.1	133,099	3.58
2006	41,091	115	211	1.8	0.3	13,787	60,890	4.4	33.5	15,881	73,631	4.6	38.6	72.5	134,732	3.28
2007	37,853	23	40	1.7	0.06	13,011	54,759	4.2	34.4	14,133	66,448	4.7	37.3	71.8	121,247	3.20
2008	36,662	116	216	1.9	0.3	16,338	77,621	4.7	44.6	13,666	68,070	5.0	37.3	82.2	145,907	3.98
2009	38,548	81	178	2.2	0.2	18,266	85,826	4.7	47.4	13,772	66,606	4.8	35.7	83.3	152,610	3.96
2010	38,490	128	268	2.1	0.3	18,694	91,105	4.9	48.6	13,053	64,178	4.9	33.9	82.8	155,551	4.04
2011	42,733	109	307	2.8	0.3	21,502	97,744	4.5	50.3	11,283	57,073	5.1	26.4	77.0	155,124	3.63
2012	41,094	127	301	2.4	0.3	21,264	106,161	5.0	51.7	13,712	76,305	5.6	33.4	85.4	182,767	4.45
2013	40,936	0	-	-	0	20,316	101,997	5.0	49.6	10,910	56,984	5.2	26.7	76.3	158,981	3.88
2014	48,112	286	720	2.5	0.6	24,038	114,112	4.7	50.0	10,940	51,321	4.7	22.7	73.3	166,153	3.45
2015	45,465	223	626	2.8	0.5	24,633	111,163	4.5	54.2	11,094	63,262	5.7	24.4	79.1	175,051	3.85
2016	42,957	114	333	2.9	0.3	25,596	126,445	4.9	59.6							
2017	46,116	0	-	-	0											

Table 28: Survival and production in smolt year classes during 2000-2017

p25 of the Scottish Government's [2017 Scottish Fish Farm Production Survey](#) (October 2018)

Between 65 and 70 million ova are laid down each year in hatcheries leading to 36-48 million smolts put to sea (a mortality rate of around a third in the hatchery cycle - [in some cases much higher due to mass mortalities](#)):

Smolts Produced and Put to Sea

Table 19: Actual and projected smolt production and smolts put to sea (millions) during 2008-2019

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Actual smolts put to sea	36.6	38.5	38.5	42.7	41.1	40.9	48.1	45.5	43.0	46.1		
Smolts produced	36.4	36.9	36.9	43.6	44.3	40.5	45.0	44.6	42.9	46.2		
Estimated production	34.9	32.6	28.7	35.9	31.3	28.1	39.9	43.4	36.6	39.3	46.1	50.9
Ratio of ova laid down to smolts produced	1.7	1.8	1.9	1.5	1.4	1.6	1.6	1.5	1.5	1.4		

p17 of the Scottish Government's [2017 Scottish Fish Farm Production Survey](#) (October 2018)

Read more via:

[Half the fish at Wester Ross salmon farm wiped out](#)

[Scottish Salmon's Mort Mountain - leaping to record levels in 2018?](#)

[Video Reveals Maggot-Infested Salmon on Scottish Farms](#)

[Gutted - 300,000 salmon are killed as storm batters fish farm](#)

[Salmon crisis as 2.3m are dumped in nine months](#)

[Data on Mortalities & Diseases at Scottish Salmon Farms](#)

[Scottish Salmon's Mort Mountain Leaps Over 10 Million - FOI reveals](#)

[We threw away 10 million dead fish, says salmon farming industry](#)

[Death rate at salmon farms doubles to 20m fish a year](#)

[New report estimates that Scottish salmon farming mortalities are now running at 20 million fish a year despite 2/3rds of the industry being certified as RSPCA Assured](#)

[Scottish watchdog labelled 'lapdog' after agreeing to keep fish farm deaths secret](#)

[Farmed salmon killed by disease leaps to 8.5 million](#)

[4] Watch a video report [online here](#)



Read more via:

- [Cleaner fish welfare on Scotland's salmon farms](#)
- [Fish that eat lice off farmed salmon suffer, says report](#)
- [Scottish salmon industry accused of welfare failures](#)
- [Shocking Video Exposes Cruel Salmon Farming in Scotland](#)
- [SSPCA under fire over lice-infested salmon filmed at fish farm](#)
- [Scottish salmon farming expansion must be stopped, say critics](#)
- [Named: supermarkets selling salmon from 'poor' welfare firms](#)
- [New report exposes serious welfare issues on Scottish salmon farms](#)
- [Revealed: the fish farms worst on animal welfare](#)
- [Scottish salmon farms named and shamed on animal welfare](#)
- [New photos expose shocking welfare issues on Scottish salmon farms](#)
- [Legal Complaint Vs Breaches of Animal Health & Welfare \(Scotland\) Act](#)

[5] Watch ['Silent Slaughter: The Shooting of Scotland's Seals'](#):



Here's a table detailing all the seals killed by salmon farms between 2011 and 2017:

Seal Killing Salmon Farms (2011-2017)								
Operator	2017	2016	2015	2014	2013	2012	2011	Total
Scottish Sea Farms	12	14	15	33	33	45	37	189
The Scottish Salmon Company	7	2	11	14	14	38	54	140
Hjaltland Seafarms (Grieg Seafood)	1			7	32	50	50	140
Marine Harvest	13	26	20	7	5	16	34	121
Loch Duart	15	12	9	13	11	20	10	90
Northern Isles Salmon						16	21	37
Balta Island Seafare		1	7	6	4	2	6	26
Dawnfresh			3	4	4	7	6	24
Meridian				1	8	12		21
Lakeland							18	18
Bound Skerries Salmon				3	4	5	4	16
Wester Ross Fisheries		2	2	4	3	1	1	13
Cooke Aquaculture	1	8	3					12
Kames Fish Farming			2		1			3
Thompson Brothers			1					1
Total	49	65	73	92	119	212	241	851

Download as an Excel spreadsheet [online here](#)

Read more via online via [Seal Killing Data 2011-2017: Scottish Government Seal Licensing Returns](#)

2018 data is not yet publicly available - but will be posted [online here](#)

Read more via:

[‘Salmon farms and seals can co-exist’ – aquaculture industry insists](#)

[Increased salmon farm protection leads to drop in seal culls](#)

[Time to stop the seal slaughter](#)

[Why saving our salmon distresses our dolphins - noise devices to scare predators also put marine mammals at risk](#)

[Acoustic Deterrent Devices evade Marine Noise Registry](#)

[Sounding Off About Scotland's Noisy Salmon Farms - Turn Off Acoustic Deterrent Devices to Protect Cetaceans](#)

[Revealed: Scottish Government bid to exempt salmon farming from US seal-killing ban](#)

[Deafening Impact of Salmon Farms on Cetaceans](#)

[RSPCA attacked for fresh support for Scots seal shooting to protect salmon](#)

[Fish farm noise pollution threatens whales and dolphins](#)

[Scotland's 'trigger-happy' salmon farmers risk losing £200m US export market](#)

[Mapped: every Scottish salmon farm that shot seals](#)

[Humpback Whale Post Mortem Suggests Entanglement in Salmon Farm](#)

[6] Read more via:

[Scotland's Aquaculture: Fish Escapes](#)

[Scottish Salmon's Great Escape](#)

[24,500 fish escape from Marine Harvest farm after storm damage](#)

[Grieg Seafood says 21,700 salmon escaped in Loch Snizort](#)

[The curious case of the great salmon escape that wasn't...](#)

[Thousands of salmon escape sea farm in one of biggest breaches in industry history](#)

[Call to jail fish-farm bosses who allow escapes](#)

[7] 59.2 million out of 65.7 million (90%) of the ova laid down to hatch in 2017 was foreign ova.

Table 18: Source, number (000s) and previous year's estimate of ova laid down to hatch during 2006-2018

Year	In-house broodstock	Out-sourced GB broodstock	GB wild broodstock	Foreign ova	Total	Previous year's estimate
2006	19,063	17,768	63	27,157	64,051	58,385
2007	18,837	14,366	78	42,022	75,303	68,032
2008	19,831	14,261	171	26,409	60,672	75,302
2009	17,148	20,158	65	30,200	67,571	64,693
2010	13,744	26,220	0	29,657	69,621	61,011
2011	15,664	14,630	0	34,322	64,616	54,526
2012	18,556	9,981	0	34,700	63,237	55,723
2013	16,996	8,263	0	41,315	66,573	49,249
2014	14,418	2,725	10	53,684	70,837	48,149
2015	6,479	223	10	61,463	68,175	65,284
2016	5,884	4	0	58,458	64,346	59,604
2017	6,228	360	0	59,158	65,746	60,673
2018						67,374

Read more via:

[Concerns raised over Scottish salmon roe imports](#)
[Government 'failing to protect Scottish salmon'](#)
[Imported eggs ruling 'makes a mockery of Scottish salmon'](#)
[Tartan imposters' charge as fish egg imports hit 90%](#)
[Invasion of the Viking salmon](#)
[Fish farms are 'wiping out Scotland's wild salmon'](#)
[Escaped farmed salmon impacts](#)
['Norwegian' genes found in wild salmon populations in Wester Ross](#)

[8] Read more via:

[Wildlife widely damaged by fish farm pesticides, says Sepa](#)
[Salmon industry toxins soar by 1000 per cent](#)
[Sky-Rocketing Chemical Use on Scottish Salmon Farms](#)
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