

Scottish Scamon, 14 February 2022

[Anyone for M&S's Virus-Laden Scottish Salmon](#)
(don't worry, it's "responsibly sourced" & RSPCA Assured)!?



- [Letter to M&S](#) calls for boycott of Scottish Sea Farms
- Scottish Sea Farms (supplier to M&S) reported 93,655 dead salmon at ISA-infected site in Loch Spelve on the Isle of Mull (33% mortality rate) during 2021
- 18 'Mortality Event Reports' filed with the Scottish Government for ISA site during 2021
 - Complex Gill Disease cited as primary cause of mass mortalities but ISA reported to World Organization for Animal Health (OIE) in September 2021
- OIE report by Scottish Government detailed 'Infection/Infestation limited to one or more zones' and listed 369,195 'susceptible' farmed Atlantic salmon
- Secret filming by Scottish Salmon Watch in Loch Spelve in May 2021 triggered Scottish Government inspection report & subsequent report to OIE

Marks & Spencer is being challenged to reveal how many virus-laden Scottish salmon have been sold to unsuspecting shoppers. Last week (10 February), [Scamon Scotland revealed](#) that Infectious Salmon Anaemia (ISA) had been officially reported at M&S supplier Scottish Sea Farms (Norskott Havburk) in Loch Spelve in May 2021 with 369,195 fish listed as 'susceptible' to the deadly virus. Scamon Scotland today (14 February 2022) [wrote to M&S](#) asking how many RSPCA Assured Scottish salmon marketed as "responsibly sourced" were infected with ISA.



Data [published by the Scottish Government's Fish Health Inspectorate on 7 February 2022](#) details 18 'Mortality Event Reports' involving 93,655 dead farmed salmon at Norwegian-owned

Scottish Sea Farms in Loch Spelve during 2021 with a weekly peak mortality of 5.1% in early September and a cumulative mortality rate of 33% (i.e. one in three farmed salmon dying) according to further data [published by Salmon Scotland](#). Here's the 18 'Mortality Event Reports' at the RSPCA Assured Loch Spelve salmon farm which pioneered [M&S's fake Lochmuir label](#) (in chronological order – latest first):

Event #	Business	Site Name	Reported	Mort %	Explained reasons	Total mortality during event	Additional information	Action taken by FHI
MRT02558	Scottish Sea Farms	Loch Spelve (B)	29/10/2021	1.2	Gill Health	432	CGD; site fallow within week	Site fallow.
MRT02538	Scottish Sea Farms	Loch Spelve (B)	26/10/2021	2.3	Gill Health	1886	CGD; harvesting to fallow	The site was fallowed before the date of notification.
MRT02514	Scottish Sea Farms	Loch Spelve (B)	18/10/2021	2.4	Gill Health	2338	CGD; harvesting to fallow	Expected to be fallow by end of the month. No further action.
MRT02462	Scottish Sea Farms	Loch Spelve (B)	08/10/2021	4.1	Gill Health	6394	CGD; destocking through harvest	This cycle of fish inspected by FHI 14/5/21 and diagnostic samples taken. FHI to continue to monitor. fallow date end Oct 2021
MRT02467	Scottish Sea Farms	Loch Spelve (B)	08/10/2021	3.0	Gill Health	4441	CGD; destocking through harvest	This cycle of fish inspected by FHI 14/5/21 and diagnostic samples taken. FHI to continue to monitor. fallow date end Oct 2021
MRT02471	Scottish Sea Farms	Loch Spelve (B)	08/10/2021	3.6	Gill Health	4259	CGD; destocking through harvest	This cycle of fish inspected by FHI 14/5/21 and diagnostic samples taken. FHI to continue to monitor. fallow date end Oct 2021
MRT02407	Scottish Sea Farms	Loch Spelve (B)	24/09/2021	1.5	Gill Health	2484	CGD; destocking through harvest	Site began harvesting the site in wk33 to reduce biomass. Mortalities have been reducing over the last 3 weeks. Aeration system in use to help increase water exchange. Successful AGD treatment carried out to further reduce mortality. FHI to continue to monitor.
MRT02388	Scottish Sea Farms	Loch Spelve (B)	20/09/2021	1.7	Gill Health	3038	CGD; destocking through harvest	Site continues to harvest cages to reduce biomass. Mortalities have since reduced from 5.1 last week to 1.7 this week. FHI to monitor.
MRT02369	Scottish Sea Farms	Loch Spelve (B)	10/09/2021	5.1	Gill Health	11390	CGD; destocking through harvest. Mortalities have increased since last week (4.5%)	This cycle of fish inspected by FHI 14/5/21 and diagnostic samples taken. FHI to monitor
MRT02340	Scottish Sea Farms	Loch Spelve (B)	03/09/2021	4.5	Gill Health	11041	CGD; AGD bath treatment in week, destocking through harvest	This cycle of fish inspected by FHI 14/5/21 and diagnostic samples taken. FHI to monitor
MRT02296	Scottish Sea Farms	Loch Spelve (B)	20/08/2021	2.7	Gill Health	7113	CGD; FH visit, diagnostics confirming CGD, aeration system installed, destocking through harvest	Prior correspondence has detailed that harvesting was meant to commence on 16/08/2021. Site has been visited and diagnostics have been taken. No further action.
MRT02278	Scottish Sea Farms	Loch Spelve (B)	16/08/2021	1.8	Gill Health	4868	CGD; increased fish health monitoring	Increased fish health monitoring is composed of increased visits, routine sampling of moribund fish, increased daily observations, increased mortality removal. Predation still very prevalent and caligus have peaked. Gill pathology still the overriding reason for mortalities. FHI to monitor.
MRT02281	Scottish Sea Farms	Loch Spelve (B)	16/08/2021	2.1	Gill Health	5484	CGD; increased fish health monitoring, harvesting due to commence	Harvesting as of 16/08/2021. Same reasons as previous notification. No further action.
MRT02247	Scottish Sea Farms	Loch Spelve (B)	29/07/2021	2.1	Gill Health	5985	CGD, Treatments for AGD completed, mortality returned below 1% threshold in following wk 29	Presence of CGD exacerbated by completed treatments for AGD. Mortality returned below 1% in following wk 29. FHI to monitor.



MRT02222	Scottish Sea Farms	Loch Spelve (B)	19/07/2021	1.2	Gill Health	3335	CGD, treatment for AGD scheduled	Presence of CGD has been exacerbated by FW and hydrogen peroxide treatments conducted across the site over the last 10days resulting in an increase in mortalities. FHI to monitor.
MRT02192	Scottish Sea Farms	Loch Spelve (B)	30/06/2021	2.5	Gill Health;	8559	FH diagnostics confirming waterborne insult to gills, mortality return below 1% threshold in following week 25	FHI inspected site on 14/05/21 following a welfare complaint. Diagnostic samples taken, case 2021-0132. FHI to monitor
MRT02162	Scottish Sea Farms	Loch Spelve (B)	07/06/2021	1.6	Gill Health; Jellyfish/Plankton	5453	FH diagnostics, mortality reducing at end of week	FHI inspected site on 14/05/21 following a welfare complaint. Diagnostic samples taken, case 2021-0132. FHI to monitor
MRT02091	Scottish Sea Farms	Loch Spelve (B)	19/03/2021	1.3	Gill Health, Post bath treatment (azamethiphos)	5155	Intervention review. Mortality returned below 1% threshold in following wk 10	Mortalities have returned to below reporting threshold, FHI will monitor.



Scottish Sea Farms – [co-owned by Norway’s SalMar and Leroy via Norskott Havbruk](#) - reported mortalities in Loch Spelve due to Gill Health, Complex Gill Disease (CGD), losses due to the organophosphate Azamethiphos ([a lobster-killing toxic chemical](#)) and Hydrogen peroxide treatments (another toxic chemical shown by peer-reviewed science to be [lethal to shellfish and seaweed](#)).

Mortality data [published in October 2021 by Salmon Scotland](#) (formerly the Scottish Salmon Producers Organisation) detailed cumulative mortality of 32.8% at the Loch Spelve salmon farm operated by Scottish Sea Farms with 7.5% monthly mortality recorded October 2021 (9.3% monthly mortality was [recorded in September 2021](#); 13.4% monthly mortality [recorded in August 2021](#); 6.4% monthly mortality [recorded in July 2021](#); 4.9% monthly mortality [recorded in June 2021](#) and 2.9% monthly mortality [recorded in May 2021](#) – the [month when the Scottish Government first reported ISA at the site](#)):



Monthly Mortality Rate: October 2021

Company	Farm	Monthly mortality (%)	Notes	Cumulative mortality over full production cycle (%)
Scottish Sea Farms Ltd	Loch Spelve (B)	7.5 (Farm followed in Oct.)	Gill health related	32.8

Data [published online via ‘Scotland’s Aquaculture’](#) details shows [lice infestation](#) peaked in early June 2021 following the [OIE report detailing ISA in Loch Spelve in May 2021](#):

SITE_NAME	BUSINESS_NAME	Date	Average
Loch Spelve (B)	Scottish Sea Farms	07/06/2021	1.9
Loch Spelve (B)	Scottish Sea Farms	09/08/2021	1.3
Loch Spelve (B)	Scottish Sea Farms	31/05/2021	1.25
Loch Spelve (B)	Scottish Sea Farms	12/07/2021	1.13
Loch Spelve (B)	Scottish Sea Farms	19/07/2021	1.03
Loch Spelve (B)	Scottish Sea Farms	24/05/2021	0.96
Loch Spelve (B)	Scottish Sea Farms	26/07/2021	0.95
Loch Spelve (B)	Scottish Sea Farms	05/07/2021	0.94
Loch Spelve (B)	Scottish Sea Farms	26/04/2021	0.84
Loch Spelve (B)	Scottish Sea Farms	30/08/2021	0.78
Loch Spelve (B)	Scottish Sea Farms	10/05/2021	0.78
Loch Spelve (B)	Scottish Sea Farms	28/06/2021	0.77
Loch Spelve (B)	Scottish Sea Farms	02/08/2021	0.62
Loch Spelve (B)	Scottish Sea Farms	16/08/2021	0.58

Here's the [FHI 'Case Information' report for Loch Spelve detailing the inspection on 14 May 2021](#) – including reference to Salmonid Gill Pox, Amoebic Gill Disease, Proliferative Gill Disease, Piscine Reovirus, Branchiomonas cysticola (Piscichlamydia), Moritella viscosa, Vibrio, Photobacterium, Neoparamoeba perurans, necrosis, dermatitis and Infectious Salmon Anaemia:

Case No:	2021-0132	Date of visit:	14/05/2021
Time spent on site:	5.5 hours	Main Inspector:	
Site No:	FS0253	Site Name:	Loch Spelve (B)
Business No:	FB0125	Business Name:	Scottish Sea Farms Ltd
Case Types:	1 REP	2 WEL	3 DIA
Water Temp (°C):	9	Thermometer No:	T172
Observations:	Region: ST	Water type: S	FHI 045 completed
Dead/weak/abnormally behaving fish present?	<input checked="" type="checkbox"/>	If yes, see additional information/clinical score sheet.	
Clinical signs of disease observed?	<input checked="" type="checkbox"/>	If yes, see additional information/clinical score sheet.	
Gross pathology observed?	<input checked="" type="checkbox"/>	If yes, see additional information/clinical score sheet.	
Diagnostic samples taken?	<input checked="" type="checkbox"/>		

Additional Case Information:

Site paperwork inspected remotely by [redacted] on 12/05/2021. Physical inspection done by [redacted] on 14/05/2021. During physical in: Site inspection conducted due to a complaint from Scottish salmon watch. Whilst group were on site they filmed some moribund fish and fish with lesions that appear to be winter ulcers. The complaint was that a breach of the Animal Welfare Act 2006 had occurred.

WRS caught from wild. Caught in west coast of Scotland.

25/03 - 28/03 Paramove for AGD

28/04 - 30/04 Paramove for AGD

Lice levels low since start of cycle and two prophylactic treatments using azamethiphos (Salmosan)

Wk 9 mortality threshold exceeded to 1.29% 5,155 fish. Associated with a azamethiphos treatment combined with higher than average levels AGD and PGD.

Billy Bowie called onto site during peak in mortality to remove excess mortality that could not be incinerated. Fish disposed of at Barkip Biogas plant.

Ulcers first observed in end of March once fish were crowded for treatment

Some deformities observed by sites staff in February in stock, specifically a compressed head. Other deformities observed during site inspection including shortened snouts, shortened opercular, deformed fins and deformed spines.

Sub-population of runted fish developed, formed predominantly of deformed fish. Planned to bring runt fish off site using a grader on board a well boat that will visit on 17/05/2021. Fish taken off live and will be harvested. Larger fish will be left on site.

Two particular cages affected are 12 and 7. Worst cages will be graded first on Monday.

Divers on site on Friday before inspection (07/05/2021) asked to look for deformities during a routine net inspection.

Deformities were observed and communicated to site manager.

Deformities not observed by site staff in all cages.

Proactively been removing runts and moribund fish since April using a hand net.

Complex gill issues diagnosed by FVG on 10/03/2021. FVG called onto site following mortality event. AGD diagnosed by FVG via swabs.

AGD scores improving since mid-April

Fish on site positive for salmonid gill pox, branchiomonas cysticola, piscine reovirus and AGD. Histo results from 13/05/2021, from Pharmaq Analytiq Ltd. Also tested for CMS, HSMI, IPNV but not detected.

ADD was removed from the site after the a change in policy that required a license before using an ADD. Site in the process of Feed called "Assist-Skin" (from Biomar) has been used on site since the observation of lesions at the end of March this reporter Thermolicer visits: 02/04/2021: cages 3 and 6 treated. 14/04/2021 - 16/04/2021 cages 1, 4, 7, 10, 11 and 12 treated.

During site inspection, 31 moribund fish were removed from the site using a hand net

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NO	FB0125	DATE OF VISIT	14/05/2021
SITE NO	FS0253	SITE NAME	Loch Spelve (B)
CASE NO	20210132	INSPECTOR	██████████

Section 1: Summary

The site was visited following a welfare complaint. During the physical inspection five fish were removed for diagnostic sampling.

Histopathology examination revealed mixed pathology. Integument displayed ulcerative bacterial dermatitis and the gill displayed complex gill pathology, although the reading of the gill, gut and pyloric caeca of some fish was compromised by autolysis artefacts. Liver of F1 displayed mild zonal haemorrhagic hepatocellular necrosis and glomerular necrosis, potentially linked to *Moritella* infection.

Due to gill health issues observed on site samples were screened for *Neoparamoeba perurans*, salmon gill poxvirus (SPGV) & *Paranucleospora theridion* (syn. *Desmozoon lepeophtherii*) by QPCR and tested positive for all three pathogens.

Samples were screened for infectious salmon anaemia virus (ISAV) by QPCR as part of surveillance program for control of listed diseases. The samples tested positive for infectious salmon anaemia virus (ISAV) by QPCR and the sequence data confirmed to be ISAV HPR0, the non-pathogenic form of the virus. Additionally, an ISAV immunochemistry (IHC) assay that target against the pathogenic form of the virus (ISA-deleted nucleoprotein) was performed and confirmed to be negative for the pathogenic form.

Vibrio sp. *Photobacterium* sp. and *Moritella viscosa* were identified, these can be pathogenic however the level and purity would not suggest they are implicated in current morbidity.



Image 10: petechial haemorrhaging of the liver (fish 1 from



Image 11: spots (possibly fat) on the spleen (fish 5, from

ISAV

Pool Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
P1	15.18	35.23	37.01	36.63	POSITIVE

Salmon gill poxvirus

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	17.92	28.36	28.34	28.48	POSITIVE
F2	18.84	32.94	33.58	32.90	POSITIVE
F3	18.79	26.77	26.73	26.82	POSITIVE
F4	19.05	31.32	31.34	31.24	POSITIVE
F5	18.64	27.83	28.07	27.66	POSITIVE



Additional comments:

Lesions: F2 lesion on tail, F3 lesion on opercular valve, F4 lesion on opercular valve. Head of F2 and F5 were slightly deformed, opercular valve of F3 was shortened, snout of F5 and F2 were shortened. F3 lost an eye but this was post mortem. Deposit (appears to be fat) on the spleen of F5 (see photos)

The [Fish Health Inspectorate's 'Case Information'](#) which details 369,195 on site at the Loch Spelve salmon farm was not [published until August 2021](#) and was [first publicized in August 2021](#) by [Scottish Salmon Watch](#) via:

[Breaking News: ISA reported at RSPCA Assured Scottish Sea Farms on the Isle of Mull](#)
[Damning Disease Report for RSPCA Assured Scottish Sea Farms in Loch Spelve](#)
[Letter to Scottish Ministers re. ISA in Scottish Salmon](#)

Scottish Salmon Watch [reported in December 2021](#) that 7% of Scottish farmed salmon tested positive for ISA between 2002 & 2012 (396 out of 5,395 samples).

Don Staniford
@TheGAAIA

Revealed: Infectious Salmon Anaemia Lurking in Scottish Salmon - 7% of farmed salmon tested positive for ISA between 2002 & 2012 (396 out of 5,395 samples) tinyurl.com/yckvwjw7
How many more cases of ISA are hiding in Scotland?
[@ScotlandSalmon](#) [@scotseafarms](#) [@MowiScotlandLtd](#)



Marine Scotland and 9 others
7:42 AM · Dec 2, 2021 · Twitter Web App

Don Staniford
@TheGAAIA

"The ISA virus is a ticking time-bomb with the risk of spreading the deadly disease all too real. RSPCA Assured [@scotseafarms](#) in Loch Spelve could be ground zero in another ISA disease outbreak" tinyurl.com/3uedcwea
[@scotgov](#) [@SSPOsays](#) [@rspcaassured](#) [@obantimes](#) [@scotgp](#)



11:13 AM · Aug 30, 2021

Fish Farmer [reported in December 2021](#) that SalMar ([co-owner of Scottish Sea Farms](#)) had been hit by ISA in Norway:

Fish Farmer

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News

SalMar facing double ISA hit in Norway

By Vince McDonagh - 10th December 2021



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Fish farming giant SalMar is facing the prospect of a double hit by infectious salmon anaemia within the space of a few days. Both incidents are in the More and Romsdal region.

ISA was confirmed this week at the company's Reistad broodfish production site a fortnight after SalMar Farming notified the Norwegian Food safety Authority that analysis from routine samples of fish had given cause for concern.

And yesterday suspicions were raised again, this time at sea site 39617 Svanøya in Smøla municipality.

The Food Safety Authority said it will carry out follow-up samples so that the Veterinary Institute can eventually confirm the disease as ISA. Supplementary analysis results will be available in a few days.

The farm has 400,000 fish with an average weight of 3.7kg. SalMar said it was awaiting confirmation from extended sampling, but as the fish were mostly ready for slaughter the financial consequences are likely to be limited if ISA is confirmed.

The Food Safety Authority will also shortly introduce restrictions which includes control and monitoring zones and limits on traffic movements around the area.

The earlier suspicions regarding Reistad were first reported on 26 November.

The Food Safety Authority took its own samples for analysis four days and ISA was confirmed earlier this week.

In order to limit the spread of infection, the site has been subject to restrictions, including a ban on the movement of fish and roe without special permission.

The Food Safety Authority said it was considering further measures for fish and roe at the site.

The results of tests are also awaited from a Grieg broodstock site in Rogaland county where ISA is suspected.

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Cranes Designed For Fish Farming
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SalMar facing double ISA hit in Norway

In June 2019, Scottish Salmon Watch [reported that over half the farmed salmon tested by Marine Scotland Science were positive for Piscine Reovirus](#) (linked to [Heart & Skeletal Muscle Inflammation in farmed salmon](#)).



Don Staniford
@TheGAAlA

Isn't it ironic...don't you think. A little too ironic...and, yeah, I really do think...It's like salmon farmers exploiting the Coronavirus crisis when over 50% of farmed salmon tested positive for a virus tinyurl.com/t5lgvox @marinescotland @SSPOsays #alanismorissette



Roseanna Cunningham and 6 others

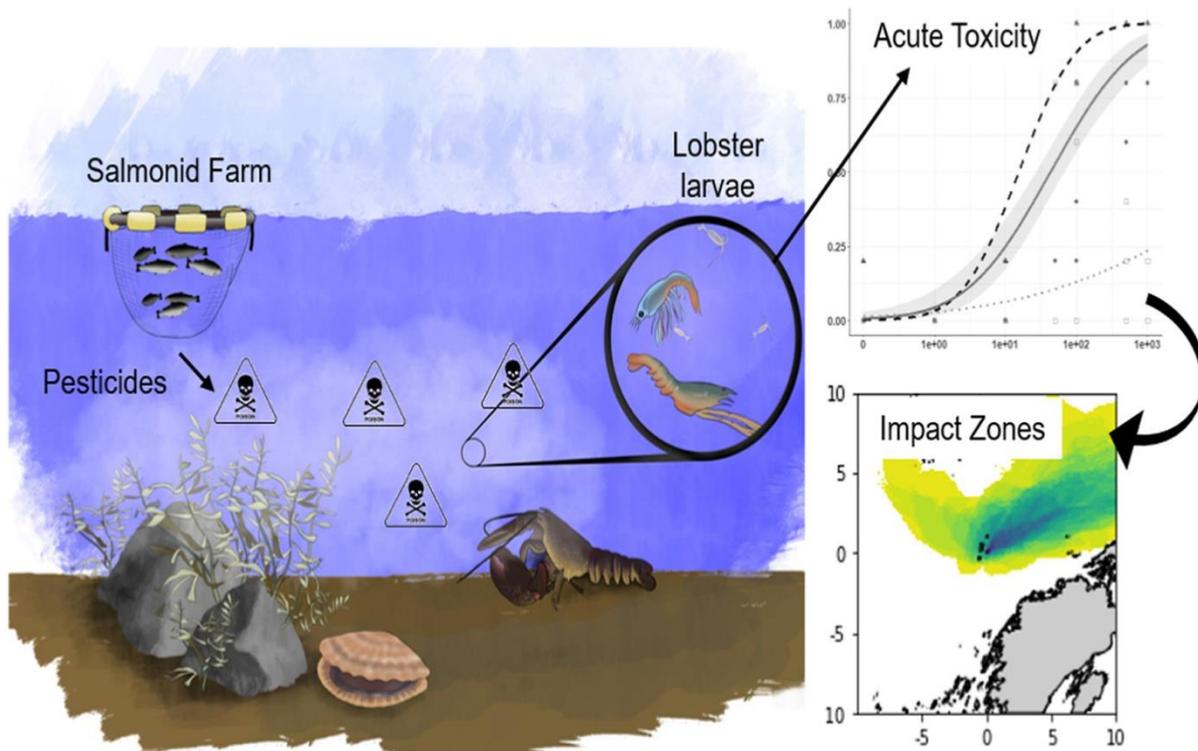
7:27 AM · Mar 13, 2020 · Twitter Web App

Data disclosed via [FOI/19/00882](#) reveals that during 2018 and 2019 there were 399 positive samples out of 774 samples tested (i.e. 52% of farmed salmon samples tested positive for PRV) [1] - including 63 tests out of 113 with 100% positive results:

Date of Testing	Pathogen	Test	Result (Positive)
27/02/2018	PRV	QPCR	10 of 10
18/09/2018	PRV	QPCR	10 of 10
19/12/2018	PRV	QPCR	10 of 10
29/11/2018	PRV	QPCR	13 of 13
29/11/2018	PRV	QPCR	19 of 19
08/01/2019	PRV	QPCR	6 of 6
22/01/2019	PRV	QPCR	6 of 6
05/02/2019	PRV	QPCR	5 of 5
12/02/2019	PRV	QPCR	5 of 6
12/02/2019	PRV	QPCR	6 of 6
19/02/2019	PRV	QPCR	10 of 10
16/04/2019	PRV	QPCR	5 of 9
25/04/2019	PRV	QPCR	5 of 5
25/04/2019	PRV	QPCR	6 of 7
21/05/2019	PRV	QPCR	6 of 6
21/05/2019	PRV	QPCR	9 of 9

Data on the use of toxic chemicals [published via Scotland's Aquaculture](#) (sourced from returns submitted each month by salmon farming companies to the Scottish Environment Protection Agency) details how Loch Spelve salmon farm is the biggest user since January 2019 of the [lobster-killing chemical Deltamethrin](#) at all Scottish Sea Farms sites:

Date	Site Name	Submitted By	Deltamethrin (g)
01-Jul-21	Spelve B (Dalnaha)	Scottish Sea Farms	60
01-Aug-21	Allt a Chois (Kishorn North Shore)	Scottish Sea Farms	60
01-Aug-21	Spelve B (Dalnaha)	Scottish Sea Farms	55
01-Sep-21	Fiunary	Scottish Sea Farms	40
01-Aug-20	Allt a Chois (Kishorn North Shore)	Scottish Sea Farms	37.5
01-Jul-21	Bloody Bay	Scottish Sea Farms	36
01-Aug-21	Bloody Bay	Scottish Sea Farms	36
01-Aug-21	Kishorn Outer, Offshore of Airigh-drishaig	Scottish Sea Farms	24
01-Aug-20	Fishnish A	Scottish Sea Farms	18.25
01-Aug-20	Spelve B (Dalnaha)	Scottish Sea Farms	15
01-Sep-20	Camas Down Point (Kishorn Site 2)	Scottish Sea Farms	15
01-Sep-20	Spelve B (Dalnaha)	Scottish Sea Farms	15
01-Jul-19	Shuna	Scottish Sea Farms	10

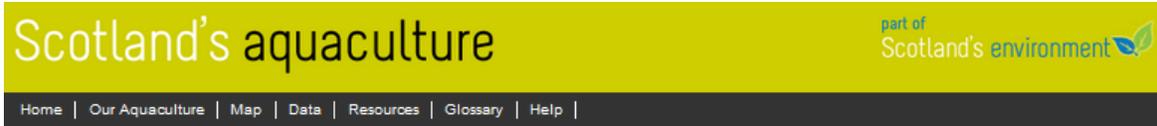


Data [published via Scotland's Aquaculture](#) shows that the Loch Spelve salmon farm is also a huge user of the [shellfish-killing organophosphate chemical Azamethiphos](#) – here's the highest uses at Scottish Sea Farms sites since January 2019:

Date	Site Name	Submitted By	Azamethiphos (g)
01-Aug-21	Vidlin North	Scottish Sea Farms	2650
01-Jun-20	Earnsaig (Nevis A)	Scottish Sea Farms	1800
01-Feb-21	Fishnish A	Scottish Sea Farms	1800
01-Mar-21	Fishnish B	Scottish Sea Farms	1800
01-Jun-21	Fishnish A	Scottish Sea Farms	1800
01-Jun-21	Allt a Chois (Kishorn North Shore)	Scottish Sea Farms	1750
01-Aug-21	Vidlin Outer	Scottish Sea Farms	1750
01-Jun-21	Fiunary	Scottish Sea Farms	1680
01-Apr-21	Vidlin North	Scottish Sea Farms	1500
01-Jul-21	Toy Ness	Scottish Sea Farms	1500
01-May-20	Port nan Ledaig (Lismore B)	Scottish Sea Farms	1350
01-Jan-21	Spelve B (Dalnaha)	Scottish Sea Farms	1320
01-Mar-21	Spelve B (Dalnaha)	Scottish Sea Farms	1320
01-May-21	South Sound, Mangaster Voe	Scottish Sea Farms	1320
01-Sep-20	Bellister	Scottish Sea Farms	1250
01-May-21	Vidlin Outer	Scottish Sea Farms	1250
01-Feb-21	Camas Doun Point (Kishorn Site 2)	Scottish Sea Farms	1200
01-Mar-21	Fishnish A	Scottish Sea Farms	1200
01-May-21	Fishnish A	Scottish Sea Farms	1200
01-Jun-21	Fishnish B	Scottish Sea Farms	1200
01-Jun-20	Ardintigh (Nevis C)	Scottish Sea Farms	1180
01-Jul-21	Scallastle Bay	Scottish Sea Farms	1080



Loch Spelve salmon farm has not reported the use of the [shellfish-killing chemical Emamectin benzoate](#) since January 2019 – perhaps because [back in 2009 environmental monitoring by SEPA found residues of Emamectin benzoate at over 20 times the Environmental Quality Standard!](#)



Sealice In-Feed Treatment Residues

Sealice In-Feed Treatment Residues Details					
Site Name	Spelve B (Dalnaha)				
Submitted By	Scottish Sea Farms Ltd				
Licence active at time of report	WPC/W/30550				
Treatment Name	Slice				
Active Ingredient	Emamectin Benzoate				
End of Treatment Date	12/09/2008				
Sample Date	24/02/2009				
Days between End of Treatment and Sample Date	165				
	Residues Results Micrograms per Kilogram			Environmental Quality Standard Micrograms per Kilogram	
Replicate	1	2	3	Emamectin Benzoate	Teflubenzuron
Cages	1.5	63.8	66.5	7.63	10000
25m				7.63	10000
100m	16	1.13	1.5	0.763	2
150m				0.763	2

Data supplied by SEPA on 04/12/2020

Location Details	
Receiving Water	Loch Spelve
National Grid Reference	NM68772683
View on Map	View on map

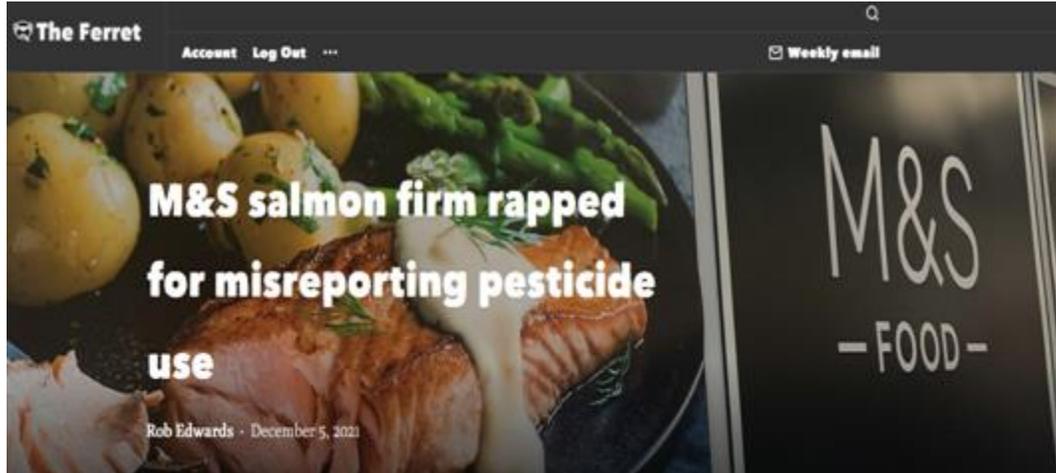
Data supplied by SEPA on 04/12/2020

[Norwegian giant Scottish Sea Farms \(Norskott Havbruk\)](#) reported the use of 10 doses of Emamectin benzoate and one dose of Azamethiphos over two cycles at Lismore East salmon farm in 2020 and 2018:

Date	Site Name	Submitted By	Emamectin Benzoate (g)	Azamethiphos (g)
01-Jun-20	Achnacroish (Walters,Lismore East)	Scottish Sea Farms	163.2	300
01-Apr-20	Achnacroish (Walters,Lismore East)	Scottish Sea Farms	82.8	0
01-Mar-20	Achnacroish (Walters,Lismore East)	Scottish Sea Farms	46.2	0
01-Feb-20	Achnacroish (Walters,Lismore East)	Scottish Sea Farms	28	0
01-Oct-18	Achnacroish (Walters,Lismore East)	Scottish Sea Farms	369.6	0
01-Aug-18	Achnacroish (Walters,Lismore East)	Scottish Sea Farms	240.9	0
01-Jun-18	Achnacroish (Walters,Lismore East)	Scottish Sea Farms	113.42	0
01-May-18	Achnacroish (Walters,Lismore East)	Scottish Sea Farms	91.42	0
01-Mar-18	Achnacroish (Walters,Lismore East)	Scottish Sea Farms	44.02	0
01-Jan-18	Achnacroish (Walters,Lismore East)	Scottish Sea Farms	34.02	0

Read more via [Toxic Scottish Salmon - Chemical Use Doubles Since 2018!](#)

The Ferret [reported in December 2021](#):



The company that supplies Scottish farmed salmon to the retail giant, Marks and Spencer (M&S), has been officially reprimanded for misreporting toxic pesticide use at 25 fish farms over three years.

Documents seen by The Ferret reveal that [Scottish Sea Farms](#) was sent two final warning letters by the [Scottish Environment Protection Agency \(Sepa\)](#) in February 2020 for under-reporting, or failing to report, the use of chemicals to kill the lice that can plague caged salmon.

Sepa accused the company of supplying information that “was not true and accurate” in 2015, 2016 and 2017. This was a “serious matter”, Sepa said, and any further breaches could result in prosecution.

The reprimand from Sepa led to the [Royal Society for the Prevention of Cruelty to Animals \(RSPCA\)](#) also sending Scottish Sea Farms a formal warning letter in October 2021. The charity was “extremely concerned” and said the company had breached its membership agreement with the [RSPCA Assured](#) fish welfare certification scheme.

M&S has a “[long-standing partnership](#)” with Scottish Sea Farms and sources salmon from a selection of the company’s farms. At least six of the farms listed by Sepa as breaching reporting requirements have been named on M&S packaging in 2018, 2019 and 2020.

Scottish Sea Farms has [failed to report numbers of mass mortalities](#) as well as the use of toxic chemicals.



Mortality numbers are still missing for Loch Spelve which suffered over 177,000 mass mortalities in late 2019:

Event No	Reporting Business	Site Name	Date	Mortality %	Mortality #s	Additional information	Action taken by FHI
MRT01251	Scottish Sea Farms Ltd	Loch Spelve (B)	26/09/2019	1.99	Not provided	Intervention review, environmental monitoring	Morts subsequently fallen.
MRT01410	Scottish Sea Farms Ltd	Loch Spelve (B)	14/11/2019	4.7	Not provided	Intervention review, mortality returned to below reporting threshold the following week	Heath team contacted, Site fallow 29/10/19. Approximate estimates given over the phone; 382344 input at start of cycle - 199124 culled, 177588 morts, 24000 fish harvest. See PSI case 20190701 for further details
MRT01417	Scottish Sea Farms Ltd	Loch Spelve (B)	14/11/2019	9.1	Not provided	Vet diagnostic visit. Harvesting to fallow	Heath team contacted, Site fallow 29/10/19. Approximate estimates given over the phone; 382344 input at start of cycle - 199124 culled, 177588 morts, 24000 fish harvest. See PSI case 20190701 for further details
MRT01422	Scottish Sea Farms Ltd	Loch Spelve (B)	14/11/2019	17.8	Not provided	Harvest to fallow	Heath team contacted, Site fallow 29/10/19. Approximate estimates given over the phone; 382344 input at start of cycle - 199124 culled, 177588 morts, 24000 fish harvest. See PSI case 20190701 for further details
MRT01424	Scottish Sea Farms Ltd	Loch Spelve (B)	14/11/2019	22.1	Not provided	Harvesting to fallow	Heath team contacted, Site fallow 29/10/19. Approximate estimates given over the phone; 382344 input at start of cycle - 199124 culled, 177588 morts, 24000 fish harvest. See PSI case 20190701 for further details
MRT01426	Scottish Sea Farms Ltd	Loch Spelve (B)	14/11/2019	7.8	Not provided	Harvesting - site fallow in following wk	Heath team contacted, Site fallow 29/10/19. Approximate estimates given over the phone; 382344 input at start of cycle - 199124 culled, 177588 morts, 24000 fish harvest. See PSI case 20190701 for further details

Scottish Salmon Watch [reported in February 2020](#):



Shocking mortalities revealed in Loch Spelve (Isle of Mull) @scotseafarms due to Complex Gill Disease. The site was stocked with 382,344 farmed salmon - 199,124 culled; 177,588 morts & 24,000 harvested tinyurl.com/vfh78s4 40% mortality reported by @SSPOsays in October 2019

Date of visit: 15/11/2019

Main Inspector: [Redacted]

Site Name: Loch Spelve (B)

Business Name: Scottish Sea Farms Ltd

Summary: "No plankton samples available. Inverluss Mussels week were not responding to feed. Recorded rapid dips in oxygen levels. Stocked with 382344 - 199124 culled, 177588 morts and 24000 harvested. Cause: Post physical delousing, CGD Environmental - planktonic gill insult, CGD Environmental - planktonic gill insult, CGD Environmental - plankton gill insult, CGD Environmental - plankton gill insult, CGD"

Form Fields (Right):

- Any treatments? (since last inspection): []
- Any disease on site? (since last inspection): []
- Has any animal health surveillance or diagnostic investigations been carried out by, or on behalf of, the business? []
- Any significant results? []
- Is there a history of sea lice issues at the site in previous 4 years? []
- Has site been able to keep sea lice levels below the recommended sea lice levels? []
- Treatment discharge for sea lice in place? []

Table: survival and mortality data

Farm	Monthly mortality (%)	Notes	Cumulative mortality over full production cycle (%)
Loch Spelve (B)	37.2 (Farm faltered in Oct.)	Environmental/Gill health	40.6

9:51 PM · Feb 10, 2020 · Twitter Web App

Case No:	2019-0701	Date of visit:	15/11/2019
Time spent on site:	0	Main Inspector:	[Redacted]
Site No:	FS0253	Site Name:	Loch Spelve (B)
Business No:	FB0125	Business Name:	Scottish Sea Farms Ltd

Additional Case Information:

Site harvested and culled - fallow 29/10/19. Due to "water bourn insult" . No plankton samples available. Inverluss Mussels reported a spike in Cretosoris. Fish were feeding well but within 1 week were not responding to feed. Recorded rapid dips in O2 levels. Added aeration and oxygen. Estimated numbers lost; stocked with 382344 - 199124 culled, 177588 morts and 24000 harvested, Fish were 2018 Q4 and 2019 Q1.

Morts reported; 16/09/2019-22/09/2019 average wt ; 1.5 kg 4.7%/site/wk Cause; Post physical delousing, CGD
 30/09/2019-06/10/2019 average wt; 1.5 kg 9.1%/site/wk Cause; Environmental - planktonic gill insult, CGD
 07/10/2019-13/10/2019 average wt; 1.5 kg 17.8%/site/wk Cause; Environmental - planktonic gill insult. CGD
 14/10/2019 -20/10/2019 average wt; 1.5 kg 22.1%/site/wk Cause; Environmental - plankton gill insult, CGD
 21/10/2019-27/10/2019 average wt; 1.2 kg 7.8%/site/wk Cause; Environmental - plankton gill insult, CGD

According to the [Fish Health Inspection report of Loch Spelve salmon farm in November 2019](#), a staggering 199,124 farmed salmon were culled and a whopping 177,588 farmed salmon were reported as dead in what is believed to be one of the biggest die offs in recent years. It seems mortalities started on 16 September 2019 and continued throughout October until 29 October 2019 when the site became fallow. Yet the Fish Health Inspectorate was not officially informed until 14 November 2019 and an 'inspection' took place over the phone on 15 November 2019 with a letter sent to Scottish Sea Farms on 16 November 2019.



Don Staniford
@TheGAAIA

...

Telephone inspection of @scotseafarms by @marinescotland in Loch Spelve - 366,000+ fish die (199,124 culled & 177,588 morts). Fish start dying on 16 Sept & site is fallowed on 29 Oct yet 'Mortality Event Reports' are dated 14 Nov with zero 'inspection' until phone call on 15 Nov

The screenshot shows a mobile phone interface. On the left, a woman is talking on a white corded telephone. On the right, there is a call log entry for 2019-0701 with a duration of 0. Below the call log is a form titled 'FISH HEALTH INSPECTORATE VISIT REPORT' with the following details:

- Case No: 2019-0701, Date of visit: 15/11/2019
- Time spent on site: [blank], Main Inspector: [blank]
- Site No: FS0253, Site Name: Loch Spelve (S)
- Business No: FB0125, Business Name: scotish sea farms ltd
- Additional Case Information: Site harvested and culled - below 20/10/19. Due to "water born issue". No plankton samples available. Inverhus Mosses reported a spike in Chlorococci. Fish were feeding well but within 1 week were not responding to feed. Stocked 199124 culled, 177588 morts and 24000 harvested. Fish were 2018 Q4 and 2019 Q1.
- Morts reported: 16/09/2019-22/09/2019 average wt. 1.5 kg 4 P/Waterline Cause, Prod physical debasing, CGD
- 20/09/2019-13/10/2019 average wt. 1.5 kg 9 P/Waterline Cause, Environmental - planktonic gill issue, CGD
- 28/10/2019-20/10/2019 average wt. 1.5 kg 22 P/Waterline Cause, Environmental - planktonic gill issue, CGD
- 11/10/2019-27/10/2019 average wt. 1.2 kg 7 P/Waterline Cause, Environmental - planktonic gill issue, CGD
- Business No: FB0125, DATE OF CASE: 15/11/2019
- Site No: FS0253, SITE NAME: Loch Spelve (S)
- INSPECTION: [redacted], CASE NO: 20190701
- Routine surveillance frequency assessment under the Aquatic Animal Health (Scotland) Regulations 2009

8:17 PM · Feb 12, 2020 · Twitter Web App

It was not until 3 March 2020 that the [Scotland's Aquaculture web-site published data](#) on the weight of mortalities in Loch Spelve in October 2019 - a staggering 192 tonnes (data on the number of mortalities has not been published since 2013 [following industry lobbying claiming that disclosure would be 'commercially damaging'](#))!

In terms of mass mortalities (by weight), here's the top 30 worst Scottish Sea Farms sites since January 2019 with Loch Spelve featuring five times (according to data [published via Scotland's Aquaculture](#)) and the October 2019 mass mortality ranked 5th worst and a mass mortality of 127

tonnes at Loch Spelve in August 2021 and another 78 tonnes of morts at Loch Spelve in September 2021 (data for October to December 2021 is expected to be [published online next month](#)):

Date	Site Name	Submitted By	Mortalities (kg)
01-Nov-20	Achnacroish (Walters, Lismore East)	Scottish Sea Farms	351494
01-Sep-21	Allt a Chois (Kishorn North Shore)	Scottish Sea Farms	350543.9
01-Oct-20	Creran B	Scottish Sea Farms	304798
01-Sep-19	Earnsaig (Nevis A)	Scottish Sea Farms	194398
01-Oct-19	Spelve B (Dalnaha)	Scottish Sea Farms	191937
01-Sep-21	Westerbister	Scottish Sea Farms	175570
01-Aug-19	Holms Geo (Site 3)	Scottish Sea Farms	155356
01-Sep-21	Bloody Bay	Scottish Sea Farms	153454
01-Aug-21	Spelve B (Dalnaha)	Scottish Sea Farms	127395.6
01-Aug-21	Allt a Chois (Kishorn North Shore)	Scottish Sea Farms	122820
01-Aug-19	Teisti Geo	Scottish Sea Farms	115734
01-Aug-19	Bellister	Scottish Sea Farms	103111
01-Jul-19	Holms Geo (Site 3)	Scottish Sea Farms	102956
01-Nov-20	Creran B	Scottish Sea Farms	87089
01-Aug-19	Allt a Chois (Kishorn North Shore)	Scottish Sea Farms	86397
01-Jul-19	Teisti Geo	Scottish Sea Farms	83067
01-Sep-21	Spelve B (Dalnaha)	Scottish Sea Farms	77744.4
01-Aug-21	Westerbister	Scottish Sea Farms	77705
01-Oct-19	Bloody Bay	Scottish Sea Farms	77178
01-Sep-19	Allt a Chois (Kishorn North Shore)	Scottish Sea Farms	73107
01-Jul-21	Spelve B (Dalnaha)	Scottish Sea Farms	70718.1
01-Nov-19	South Sound, Mangaster Voe	Scottish Sea Farms	70375
01-Aug-20	Fiunary	Scottish Sea Farms	69668.4
01-Sep-21	Hunda North	Scottish Sea Farms	69542
01-Sep-19	Teisti Geo	Scottish Sea Farms	68012
01-Jun-21	Spelve B (Dalnaha)	Scottish Sea Farms	67961.2
01-Aug-21	Sian Bay	Scottish Sea Farms	67703
01-Jun-21	Teisti Geo	Scottish Sea Farms	63730
01-Jul-19	Bellister	Scottish Sea Farms	62592
01-Aug-21	Camas Doun Point (Kishorn Site 2)	Scottish Sea Farms	61607.3



Scottish Salmon Watch [reported in December 2021](#) that mortality rates at Scottish Sea Farms averaged ca. 14% with some sites – including Loch Spelve, Creran and Kishorn - reporting significantly higher mortality rates:



Don Staniford
@TheGAAIA



'Scottish' Sea Farms (real name Norskott Havbruk @LeroySeafood) claim an annual mortality rate of 9%* @scotseafarms yet data @ScotlandSalmon shows average cumulative mortality at farms harvested out in 2020 & 2021 was 14% with 41% in Loch Kishorn! tinyurl.com/32229n5r

MORTALITY (%) AT SCOTTISH SEA FARMS IN 2021



Kishorn B (North) 41.3

Loch Creran (B) 34.6

Loch Spelve (B) 32.8

Holms Geo 25.5

Lippie Geo 25.0

Teisti Geo 21.5

Swarta Skerry 17.8

Lismore West (B) 17.7

Wyre 16.7

Sian Bay 16.5

Nevis B 16.8

11:21 AM · Dec 13, 2021



When Scottish Salmon Watch [filmed inside the Loch Spelve salmon farm on 7 May 2021](#) they found clear evidence of welfare abuse which led to a [temporary suspension of the site from the RSPCA Assured scheme](#) (read the welfare complaint dated 10 May 2021 [online here](#)).



Don Staniford
@TheGAAIA

Secret filming at a Scottish Sea Farms salmon farm on the Isle of Mull. It shows fish with open sores and disease. This is RSPCA Assured salmon, supplied to M&S as "high welfare"!
youtube.com/watch?v=gDBDMg...
[@scotseafarms](#) [@marksandspencer](#) [@Ecohustler](#)
[@rspcaassured](#) [@LeroySeafood](#)

youtube.com
RSPCA Assured - Underwater
Secret filming at a Scottish Sea Farms salmon farm on the Isle of Mull. It shows fish with open sores and ...

12:13 PM · May 13, 2021

What was not known at the time was that this was [video footage](#) of the [first reported case of ISA on a Scottish salmon farm since 2012](#).



Scottish Salmon Watch [reported in June 2021](#) how M&S had dropped their fake ‘Lochmuir’ brand – which was [pioneered by Scottish Sea Farms in Loch Spelve](#) – in favour of RSPCA Assured accreditation.



In November 2021, [Scottish Salmon Watch filed complaints against supermarkets – including M&S - with Trading and Advertising Standards for false advertising and deceptive marketing of “responsibly farmed” and “responsibly sourced” Scottish salmon.](#)



Read more via:

[Bullshit Called on M&S's "Responsibly Sourced" Scottish Salmon!](#)

[Ecohushtler sticks it to "responsibly sourced" Scottish salmon sold by M&S!](#)





Don Staniford
@TheGAAIA



Matt Mellen of @Ecohustler sticks it to "responsibly sourced" @scotseafarms as sold by @marksandspencer - Warning: this product causes serious environmental damage! @ScotlandSalmon @Folketrygdfond @LeroySeafood @TheGrocer @JoannaBlythman @SalmonScotland
[instagram.com/p/CWdzXOcKl2c/](https://www.instagram.com/p/CWdzXOcKl2c/)



6:47 PM · Nov 19, 2021



“Shame on M&S and other supermarkets for greenwashing virus-laden Scottish salmon,” said Don Staniford, Director of Scamon Scotland. “Consumers should boycott Scottish salmon – even RSPCA Assured and ‘responsibly sourced’ – like the proverbial plague. Scottish salmon is a [disease-ridden](#), [virus-laden](#) and [lice-infested](#) health disaster. M&S’s Scottish salmon belongs in the bin not in your shopping basket. Please tell M&S that Infectious Salmon Anaemia, Piscine Reovirus and other nasties lurking in Scottish salmon is not ‘healthy’ food. I wouldn’t serve Scottish salmon to my dog, cats or even my mother-in-law.”

Read a copy of Scamon Scotland’s letter to M&S (14 February 2022) [online here](#)

Contact:

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