

Media Backgrounder (May 2018)

Marine Harmfest Scotland



## Slaughter of Seals - 121 seals killed between 2011 and 2017:



Here's a table detailing all the seals killed by salmon farms since 2011 - with Marine Harvest killing 121 seals between 2011 and 2017 (leading the way in 2016 with 26 seals killed):

Operator	Seal Killing Salmon Farms (2011-2017)							Total
	2017	2016	2015	2014	2013	2012	2011	
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
<b>Total</b>	<b>49</b>	<b>65</b>	<b>73</b>	<b>92</b>	<b>119</b>	<b>212</b>	<b>241</b>	<b>851</b>

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

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

The Global Alliance Against Industrial Aquaculture [reported in November 2017](#):

According to the seal-killing data [published online](#) by the Scottish Government, Marine Harvest killed 26 out of the 97 seals reported as killed in [2016](#) (more than any other company and representing 27% of all the seals killed in Scotland in 2016).

Company	Total Seals Killed in 2016
Marine Harvest (Scotland) Ltd	26
Moray Firth Seal Management Group	18
Scottish Sea Farms	14
North and North West Salmon Management Group	13
Cooke Aquaculture Scotland	8
Loch Duart*	6

\* Also includes seals killed via the North and North West Salmon Management Group

A total of 15 Marine Harvest salmon farms reported seal kills including sites in Loch Ewe, Torridon, [Greshornish](#), Linnhe, Colonsay, and [Lochalsh](#) - that represents 30% of [Marine Harvest Scotland's 49 salmon farms](#) killing seals. The Marine Harvest salmon farms - all understood to be certified via the [RSPCA Assured/Freedom Food scheme](#) - [reported by the Scottish Government as killing seals in 2016](#) included:

Eilean Grianain (FS1176); Isle Ewe (FS0767); Torridon (FS0814); Greshornish (FS0698); Maol Ban (FS0839); Cairidh (FS0252); Hellisay (FS1261); Ornish (FS0531); Marulaig (FS0865); Linnhe (FS0240); Creag an t Sagairt (FS0605); Kingairloch (FS0241); Camas Glas; Colonsay and Lochlash (sic).

2016 Returns		Quarter 1			Quarter 2			Quarter 3			Quarter 4		
Licence No:	Licence Name:	Site	Common	Grey	Site	Common	Grey	Site	Common	Grey	Site	Common	Grey
WI14/2016	Marine Harvest (Scotland) Ltd		0	0		0	0	Hellisay FS1251	0	0		2	0
"	Marine Harvest (Scotland) Ltd		0	0		0	0	Ornish FS0531	0	0		2	0
"	Marine Harvest (Scotland) Ltd		0	0		0	0	Manuizig FS0665	0	0		1	0
SW07/2016	Marine Harvest (Scotland) Ltd	Eilean Grianaid FS1176	1	0		0	0		0	0		0	0
WS06/2016	Marine Harvest (Scotland) Ltd		0	0		0	0		0	0		2	0
WS16/2016	Marine Harvest (Scotland) Ltd	Isle Ewe FS0767	0	2		0	0		0	0		0	0
"	Marine Harvest (Scotland) Ltd	Torrison FS0814	1	0		0	0		0	0		0	0
WS21/2016	Marine Harvest (Scotland) Ltd	GRESHORNISH FS0698	0	1	Caoidh FS0252	0	2	Linnhe FS0240	1	0	Lochlash	1	1
"	Marine Harvest (Scotland) Ltd		0	0		0	0	Maol Ban FS0519	0	0	Camas Glas	1	1
"	Marine Harvest (Scotland) Ltd		0	0		0	0	Creag an t-Sagairt FS0505	0	0	Kingairloch FS0241	0	1
"	Marine Harvest (Scotland) Ltd	MAOL BAN FS0839	1	0		0	0	Kingairloch FS0241	0	0	Colonsay	0	1

Data [published online by the Scottish Government in September 2017](#) - for the first two quarters of 2017 - reveal that Marine Harvest has killed 11 seals at seven different sites (Polle na Gille, Bagh dail nan Cean, Ardnish, Lochlash, Camas Glas, Kingainloch and Colonsay) during 2017 representing 19% of the total seals killed in Scotland:

2017 Returns		Quarter 1			Quarter 2		
Licence No:	Licence Name:	Site	Common	Grey	Site	Common	Grey
WS06/2017	Marine Harvest (Scotland) Ltd	Polle na Gille	1	0	Bagh dail nan Cean	2	0
"	Marine Harvest (Scotland) Ltd	Bagh dail nan Cean	0	1			
WS21/2017	Marine Harvest (Scotland) Ltd	Ardnish	0	1	Lochlash	1	1
"	Marine Harvest (Scotland) Ltd				Camas Glas	1	1
"	Marine Harvest (Scotland) Ltd				Kingainloch	0	1
"	Marine Harvest (Scotland) Ltd	MAOL BAN FS0839			Colonsay	0	1

Watch a video report from Don Staniford via "[Marine Harvest: Stop Shooting Seals!](#)":



The Global Alliance Against Industrial Aquaculture [reported in February 2018](#):

Marine Harvest's [slaughter of seals in Loch Alsh](#) - a Special Area of Conservation - attracted [widespread condemnation](#):



[Headless seal corpses have also washed up near Marine Harvest's salmon farm in Loch Alsh](#) (within the Loch Alsh 'Special Area of Conservation'):

In 2008, headless seal corpses washed up on the shore near Marine Harvest's salmon farm in Loch Alsh – a Special Area of Conservation. [Nigel Smith](#) who runs Seaprobe Atlantis Wildlife Cruises around Skye and Lochalsh, said he discovered the two carcasses, which had their heads missing, on a beach at Kyleakin close to Srom Fish Farm run by Marine Harvest. Mr Smith said: "One reason could be that the heads had bullet holes in them and they didn't want people to see they were shot, or they may have been shot with the wrong calibre of weapon. The seals were relatively fresh, so I don't believe that the heads could have decayed and fallen off." A spokesman for Marine Harvest said: "Regrettably, from time to time we do need to shoot seals that attack our stocks. This is done as quickly and humanely as possible and in strictly controlled circumstances.

#### **The evidence: photos of wounded seals**



Read more via '[Skye cruise operator raises suspicions over headless seals](#)'

Read more via:

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

[Press Release: "Carry on Killing Says RSPCA"](#)

[Press Release: "RSPCA in firing line over Marine Harvest's seal-killing spree in Scotland - 118 seals killed by Marine Harvest's RSPCA Assured farms since 2011"](#)

["Marine Harvest: Scotland's #1 Seal Killer"](#)

### Use of Acoustic Deterrent Devices (ADDs) - 65 out of 164 in use with 58 "Always On":

Data obtained from the Scottish Government in June 2017 via FOI revealed that 164 salmon farms use ADDs with 112 salmon farms where ADDs are listed as "Always On". Of the 164 salmon farms using ADDs, Marine Harvest accounted for 65:

1	Licenced Company	Fish Farm Name	ADD Used	ADD Count	ADD Model	ADD Always On
40	Marine Harvest (Scotland) Ltd	HELLISAY	TRUE	2	mon aqua airmar II	TRUE
41	Marine Harvest (Scotland) Ltd	HELLISAY	TRUE	2	mon aqua airmar II	TRUE
42	Marine Harvest (Scotland) Ltd	Ornish	TRUE	2	ACE AQUATEC	TRUE
43	Marine Harvest (Scotland) Ltd	Ornish	TRUE	2	ACE AQUATEC	TRUE
44	Marine Harvest (Scotland) Ltd	SEAFORTH	TRUE	2	TERECOS DSMS-4	TRUE
45	Marine Harvest (Scotland) Ltd	SEAFORTH	TRUE	2	TERECOS DSMS-4	TRUE
46	Marine Harvest (Scotland) Ltd	STULAIGH	TRUE	16	Airmar	TRUE
47	Marine Harvest (Scotland) Ltd	STULAIGH	TRUE	16	Airmar	TRUE
48	Marine Harvest (Scotland) Ltd	Tabhaigh	TRUE	4	Terecos DSMS-4	TRUE
49	Marine Harvest (Scotland) Ltd	Tabhaigh	TRUE	4	Terecos DSMS-4	TRUE
50	Marine Harvest (Scotland) Ltd	Scotasay	TRUE	2	Terecos DSMS-4	TRUE
51	Marine Harvest (Scotland) Ltd	Scotasay	TRUE	2	Terecos DSMS-4	TRUE
66	Marine Harvest (Scotland) Ltd	North Shore	TRUE	6	Terecos DSMS-4	TRUE
67	Marine Harvest (Scotland) Ltd	North Shore	TRUE	6	Terecos DSMS-4	TRUE
68	Marine Harvest (Scotland) Ltd	Raineach	TRUE	2	Terecos DSMS4	TRUE
69	Marine Harvest (Scotland) Ltd	Raineach	TRUE	2	Terecos DSMS4	TRUE
70	Marine Harvest (Scotland) Ltd	Marulaig Bay	TRUE	4	Terecos DSMS4	TRUE
71	Marine Harvest (Scotland) Ltd	Marulaig Bay	TRUE	4	Terecos DSMS4	TRUE
72	Marine Harvest (Scotland) Ltd	Groatay	TRUE	14	Terecos DSMS4	TRUE
73	Marine Harvest (Scotland) Ltd	Groatay	TRUE	14	Terecos DSMS4	TRUE
74	Marine Harvest (Scotland) Ltd	Grey Horse Channel	TRUE	7	Terecos DSMS 4	TRUE
75	Marine Harvest (Scotland) Ltd	Grey Horse Channel	TRUE	7	Terecos DSMS 4	TRUE
76	Marine Harvest (Scotland) Ltd	Bagh Dail Nan Cean	TRUE	2	Terecos DSMS 4	TRUE
77	Marine Harvest (Scotland) Ltd	Polle Na Gille	TRUE	2	Terecos DSMS 4	TRUE
78	Marine Harvest (Scotland) Ltd	Port Na Cro	TRUE	2	Terecos DSMS 4	TRUE
79	Marine Harvest (Scotland) Ltd	ARDINTOUL	TRUE	6	Terecos DSMS 4	TRUE
80	Marine Harvest (Scotland) Ltd	CAIRIDH	TRUE	8	Terecos DSMS 4	TRUE
81	Marine Harvest (Scotland) Ltd	CAMAS GLAS	TRUE	20	Airmar	TRUE
82	Marine Harvest (Scotland) Ltd	CREAG AN T SAGAIRT	TRUE	4	Terecos DSMS 4	TRUE
83	Marine Harvest (Scotland) Ltd	DUICH	TRUE	8	Terecos DSMS 4	TRUE
84	Marine Harvest (Scotland) Ltd	Gorsten	TRUE	12	Terecos DSMS 4	TRUE
85	Marine Harvest (Scotland) Ltd	GRESHORNISH	TRUE	12	Terecos DSMS 4	TRUE
86	Marine Harvest (Scotland) Ltd	INVASION BAY	TRUE	3	Terecos DSMS 4	TRUE
87	Marine Harvest (Scotland) Ltd	KINGAIRLOCH	TRUE	1	Terecos DSMS4	TRUE
88	Marine Harvest (Scotland) Ltd	LEVEN	TRUE	2	Terecos DSMS 4	TRUE
89	Marine Harvest (Scotland) Ltd	LINNHE	TRUE	2	Terecos DSMS 4	TRUE
90	Marine Harvest (Scotland) Ltd	MAOL BAN	TRUE	8	Terecos DSMS 4	TRUE

94	Marine Harvest (Scotland) Ltd	ISLE EWE	TRUE	12	MON AQUA AIRMAR II	TRUE
95	Marine Harvest (Scotland) Ltd	TORRIDON	TRUE	10	Terecos DSMS4	TRUE
96	Marine Harvest (Scotland) Ltd	Eilean Grianain	TRUE	2	Terecos DSMS4	TRUE
97	Marine Harvest (Scotland) Ltd	ISLE EWE	TRUE	12	Mhon Aqua Airmar II	TRUE
98	Marine Harvest (Scotland) Ltd	TORRIDON	TRUE	10	Terecos DSMS4	TRUE
99	Marine Harvest (Scotland) Ltd	Bagh Dail Nan Cean	TRUE	2	Terecos DSMS4	TRUE
100	Marine Harvest (Scotland) Ltd	Polle Na Gille	TRUE	2	Terecos DSMS4	TRUE
101	Marine Harvest (Scotland) Ltd	Port Na Cro	TRUE	2	Terecos DSMS4	TRUE
102	Marine Harvest (Scotland) Ltd	ARDINTOUL	TRUE	6	Terecos DSMS 4	TRUE
103	Marine Harvest (Scotland) Ltd	CAIRIDH	TRUE	8	Terecos DSMS 4	TRUE
104	Marine Harvest (Scotland) Ltd	CAMAS GLAS	TRUE	20	2 x Airmar II 2 x Aqu Mag	TRUE
105	Marine Harvest (Scotland) Ltd	CREAG AN T SAGAIRT	TRUE	4	Terecos DSMS 4	TRUE
106	Marine Harvest (Scotland) Ltd	DUICH	TRUE	8	Terecos DSMS 4	TRUE
107	Marine Harvest (Scotland) Ltd	Gorsten	TRUE	12	Terecos DSMS 4	TRUE
108	Marine Harvest (Scotland) Ltd	GRESHORNISH	TRUE	12	Terecos DSMS 4	TRUE
109	Marine Harvest (Scotland) Ltd	INVASION BAY	TRUE	3	Terecos DSMS4	TRUE
110	Marine Harvest (Scotland) Ltd	KINGAIRLOCH	TRUE	1	Terecos DSMS4	TRUE
111	Marine Harvest (Scotland) Ltd	LEVEN	TRUE	2	Terecos DSMS4	TRUE
112	Marine Harvest (Scotland) Ltd	LINNHE	TRUE	2	Terecos DSMS 4	TRUE
113	Marine Harvest (Scotland) Ltd	MAOL BAN	TRUE	8	Terecos DSMS 4	TRUE
114	Marine Harvest (Scotland) Ltd	SCONSER	TRUE	12	Terecos DSMS 4	TRUE
153	Marine Harvest (Scotland) Ltd	Ardnish	TRUE	2	Terecos DSMS 4	FALSE
154	Marine Harvest (Scotland) Ltd	MacLean's Nose	TRUE	1	Terecos DSMS 4	FALSE
155	Marine Harvest (Scotland) Ltd	Colonsay	TRUE	2	Terecos DSMS 4	FALSE
164	Marine Harvest (Scotland) Ltd	Ardnish	TRUE	2	Terecos DSMS 4	FALSE
165	Marine Harvest (Scotland) Ltd	MacLean's Nose	TRUE	1	Terecos DSMS4	FALSE
166	Marine Harvest (Scotland) Ltd	SCONSER	TRUE	12	Terecos DSMS 4	FALSE
167	Marine Harvest (Scotland) Ltd	North Moine	TRUE	2	Terecos DSMS 4	FALSE

Download an Excel spreadsheet detailing ADD use on Scottish salmon farms [online here](#) and [online here](#) (edited version showing ADD use only). Read more via [Press Release: "Deafening Impact of Salmon Farms on Cetaceans"](#) (18 April 2018).

### Toxic Chemical Use:

[Data published via the Scotland's Aquaculture web-site](#) (sourced from SEPA) reveal:

- 134 uses of Azamethiphos by Marine Harvest Scotland during 2017:

Monthly Biomass & Treatment Reports > Report Month > From date: 01/01/2017 To date: 30/04/2018

Water Type: --All-- Local Authority: --All-- Sealice Treatment Used: Azamethiphos

Apply Current Filters Show All Results Clear All Filters CSV Export

Show/Hide Advanced Filters

Month	Year	Licence Site ID	Licence Site Name	Licence Number	Licence Holder	Actual Biomass on Site (Tonnes)	Actions
					marine harvest		
December	2017	AMM1	Am Maol, Isle of Muck	CAR/L/1109999/V4	Marine Harvest (Scotland) Ltd	1495	<a href="#">More</a>
December	2017	ARDN1	Ardnish	CAR/L/1002887/V9	Marine Harvest (Scotland) Ltd	265	<a href="#">More</a>
December	2017	FFMC54	Bagh Dail nan Ceann North and South	CAR/L/1004226/V5	Marine Harvest (Scotland) Ltd	1593	<a href="#">More</a>
December	2017	CAG1	Camus Glas	CAR/L/1009965/V7	Marine Harvest (Scotland) Ltd	1733	<a href="#">More</a>
December	2017	COLS1	Colonsay	CAR/L/1110925/V5	Marine Harvest (Scotland) Ltd	533	<a href="#">More</a>
December	2017	ERI4	Erisort, North Shore East	CAR/L/1129789/V3	Marine Harvest (Scotland) Ltd	584	<a href="#">More</a>
December	2017	ERI3	Erisort, North Shore West	CAR/L/1004085/V15	Marine Harvest (Scotland) Ltd	513	<a href="#">More</a>
December	2017	INV1	Invasion Bay	CAR/L/1009162/C1/V2	Marine Harvest (Scotland) Ltd	1561	<a href="#">More</a>
December	2017	NOS1	Noster	CAR/L/1009974/V11	Marine Harvest (Scotland) Ltd	1828	<a href="#">More</a>
December	2017	FFMC34	Poll na Gille	CAR/L/1000800/V5	Marine Harvest (Scotland) Ltd	1229	<a href="#">More</a>
December	2017	SEA5	Seaforth	CAR/L/1009963/V13	Marine Harvest (Scotland) Ltd	2048	<a href="#">More</a>
November	2017	AMM1	Am Maol, Isle of Muck	CAR/L/1109999/V4	Marine Harvest (Scotland) Ltd	1502	<a href="#">More</a>
November	2017	ARDN1	Ardnish	CAR/L/1002887/V9	Marine Harvest (Scotland) Ltd	295	<a href="#">More</a>
November	2017	FFMC54	Bagh Dail nan Ceann North and South	CAR/L/1004226/V5	Marine Harvest (Scotland) Ltd	2280	<a href="#">More</a>
November	2017	COLS1	Colonsay	CAR/L/1110925/V5	Marine Harvest (Scotland) Ltd	387	<a href="#">More</a>

134 items in 9 pages

Data supplied by SEPA on 28/02/2018

Download all the data [online here](#)

- 46 uses of Emamectin benzoate by Marine Harvest Scotland during 2017:

Monthly Biomass & Treatment Reports > Report Month > From date: 01/01/2017 To date: 30/04/2018

Water Type: --All-- Local Authority: --All-- Sealice Treatment Used: Emamectin Benzoate

Apply Current Filters Show All Results Clear All Filters CSV Export

Show/Hide Advanced Filters

Month	Year	Licence Site ID	Licence Site Name	Licence Number	Licence Holder	Actual Biomass on Site (Tonnes)	Actions
		<input type="text"/>	<input type="text"/>	<input type="text"/>	Marine harvest	<input type="text"/>	
December	2017	COLS1	Colonsay	CAR/L/1110925/V5	Marine Harvest (Scotland) Ltd	533	<a href="#">More</a>
December	2017	INV1	Invasion Bay	CAR/L/1009162 /C1/V2	Marine Harvest (Scotland) Ltd	1561	<a href="#">More</a>
December	2017	IOEWE2	Isle of Ewe	CAR/L/1002963/V8-R	Marine Harvest (Scotland) Ltd	185	<a href="#">More</a>
December	2017	SOAY1	Soay Sound	CAR/L/1004053/V12	Marine Harvest (Scotland) Ltd	493	<a href="#">More</a>
November	2017	INV1	Invasion Bay	CAR/L/1009162 /C1/V2	Marine Harvest (Scotland) Ltd	1451	<a href="#">More</a>
October	2017	SCOT1	Scotassay	CAR/L/1004080 /C1/V6	Marine Harvest (Scotland) Ltd	182	<a href="#">More</a>
August	2017	CAG1	Camus Glas	CAR/L/1009965/V7	Marine Harvest (Scotland) Ltd	1500	<a href="#">More</a>
August	2017	COLS1	Colonsay	CAR/L/1110925/V5	Marine Harvest (Scotland) Ltd	68	<a href="#">More</a>
August	2017	DUI1	Duich	CAR/L/1010433/V6	Marine Harvest (Scotland) Ltd	910	<a href="#">More</a>
August	2017	GHC1	Grey Horse Channel	CAR/L/1025571/V7-R	Marine Harvest (Scotland) Ltd	77	<a href="#">More</a>
August	2017	GRT1	Groatay	CAR/L/1011922/V10	Marine Harvest (Scotland) Ltd	82	<a href="#">More</a>
August	2017	IOEWE2	Isle of Ewe	CAR/L/1002963/V8-R	Marine Harvest (Scotland) Ltd	35	<a href="#">More</a>
August	2017	FFMC55	Port na Cro	CAR/L/1000810/V5	Marine Harvest (Scotland) Ltd	842	<a href="#">More</a>
August	2017	SKIO1	Skipport Outer (Ornish)	CAR/L/1001968/V8	Marine Harvest (Scotland) Ltd	38	<a href="#">More</a>
August	2017	SOAY1	Soay Sound	CAR/L/1004053/V12	Marine Harvest (Scotland) Ltd	63	<a href="#">More</a>

46 items in 4 pages

Data supplied by SERA on 28/02/2018

Download all the data [online here](#)

- 26 uses of Deltamethrin by Marine Harvest Scotland during 2017:

Monthly Biomass & Treatment Reports > Report Month > From date: 01/01/2017 To date: 30/04/2018

Water Type: --All-- Local Authority: --All-- Seaweed Treatment Used: Deltamethrin

Apply Current Filters Show All Results Clear All Filters CSV Export

Show/Hide Advanced Filters

Month	Year	Licence Site ID	Licence Site Name	Licence Number	Licence Holder	Actual Biomass on Site (Tonnes)	Actions
					Marine harvest		
December	2017	DUI1	Duich	CAR/L/1010433/V6	Marine Harvest (Scotland) Ltd	1868	<a href="#">More</a>
November	2017	FFMC04N	Port na Moine Site 2 (North)	CAR/L/1020918/V6	Marine Harvest (Scotland) Ltd	87	<a href="#">More</a>
November	2017	SOAY1	Soay Sound	CAR/L/1004053/V12	Marine Harvest (Scotland) Ltd	322	<a href="#">More</a>
October	2017	ARDN1	Ardnish	CAR/L/1002887/V9	Marine Harvest (Scotland) Ltd	300	<a href="#">More</a>
October	2017	IOEWE2	Isle of Ewe	CAR/L/1002963/V8-R	Marine Harvest (Scotland) Ltd	99	<a href="#">More</a>
August	2017	COLS1	Colonsay	CAR/L/1110925/V5	Marine Harvest (Scotland) Ltd	68	<a href="#">More</a>
August	2017	GRT1	Groatay	CAR/L/1011922/V10	Marine Harvest (Scotland) Ltd	82	<a href="#">More</a>
August	2017	FFMC34	Poll na Gille	CAR/L/1000800/V5	Marine Harvest (Scotland) Ltd	1975	<a href="#">More</a>
July	2017	CAG1	Camus Glas	CAR/L/1009965/V7	Marine Harvest (Scotland) Ltd	1262	<a href="#">More</a>
July	2017	HNW1	Creag an Sagairt West	CAR/L/1105276/V5	Marine Harvest (Scotland) Ltd	2449	<a href="#">More</a>
July	2017	MBM1	Marulaig Bay	CAR/L/1028518/V8	Marine Harvest (Scotland) Ltd	1001	<a href="#">More</a>
July	2017	NOS1	Noster	CAR/L/1009974/V11	Marine Harvest (Scotland) Ltd	574	<a href="#">More</a>
May	2017	HEL1	Hellisay	CAR/L/1095612/V5	Marine Harvest (Scotland) Ltd	2150	<a href="#">More</a>
March	2017	ELGN2	Carradale (North)	CAR/L/1131788/V3	Marine Harvest (Scotland) Ltd	2263	<a href="#">More</a>
March	2017	FFMC34	Poll na Gille	CAR/L/1000800/V5	Marine Harvest (Scotland) Ltd	962	<a href="#">More</a>

26 items in 2 pages

Data supplied by SEPA on 23/02/2018

Download all the data [online here](#)

Documents obtained from SEPA via FOI on 27 April 2018 reveal the following uses of Azamethiphos (a toxic organophosphate) by Marine Harvest via well boats:



To Marine Scotland

From: Charlotte Maddocks

[charlotte.maddocks@marineharvest.com](mailto:charlotte.maddocks@marineharvest.com)

Email [msmarinelicensing@gov.scot](mailto:msmarinelicensing@gov.scot)

Marine Harvest (Scotland) Ltd.  
Stob Ban House,  
Glen Nevis Business Park  
Fort William, PH33 6RX  
Telephone 01397 701 550  
Mobile  
Fax 01397 701 174

Date: 26th August 2017

We intend to discharge the following in accordance with consent conditions

Site	Theraputant	Active Ingredient	Quantity (up to) grams	Biomass	Date	
					Start	End
Caolas a Deas East, Loch Shell CAR/1120220;	Salmosan Vet	Azamethiphos	400g per 24 hours	~700T	26.08.17	~29.08.17



To Marine Scotland

From: Charlotte Maddocks

[charlotte.maddocks@marineharvest.com](mailto:charlotte.maddocks@marineharvest.com)

Email [MS.MarineLicensing@gov.scot](mailto:MS.MarineLicensing@gov.scot)

Marine Harvest (Scotland) Ltd.  
Stob Ban House,  
Glen Nevis Business Park  
Fort William, PH33 6RX  
Telephone 01397 701 550  
Mobile  
Fax 01397 701 174

Date: 22nd August 2017

We intend to discharge the following in accordance with consent conditions

Site	Theraputant	Active Ingredient	Quantity (up to) grams	Biomass	Date	
					Start	End
Noster CAR/L/1009974/VN10 & MPSv5; Seaforth CAR/L/1009963/VN12 & MPSv4; Trillichean Mor CAR/L/1003016	Salmosan	Aamethiphos	170g; 190g and 190g respectively	200T	24/08/2017	~26/08/17

Treatment boat - Inter Caladonia well boat



To Marine Scotland  
Marine Laboratory  
375 Victoria Road  
Aberdeen AB11 9DB

From: Ray Waddell  
[ray.waddell@marineharvest.com](mailto:ray.waddell@marineharvest.com)

Email [ms.marinelicensing@gov.scot](mailto:ms.marinelicensing@gov.scot)

Marine Harvest (Scotland) Ltd.  
Farms Office, Blar Mhor Industrial Estate  
Fort William, PH33 7TP  
Telephone 01397 701 550  
Mobile  
Fax 01397 701 174

Date: 25th January 2017

We intend to discharge the following used chemical from the wellboat Inter Caledonia in compliance with licence conditions.  
Actual times of discharge are subject to weather and workload.

Site	Theraputant	Active Ingredient	Quantity (up to) grams	Date	
				Start	End
Loch Hourm 06008/16/0	Salmosan Vet (Fish Vet Group)	Azimethiphos	1760.00	0900hrs 27/01/2017	31/01/2017



To Marine Scotland  
Marine Laboratory  
375 Victoria Road  
Aberdeen AB11 9DB

From: Ray Waddell  
[ray.waddell@marineharvest.com](mailto:ray.waddell@marineharvest.com)

Email [ms.marinelicensing@gov.scot](mailto:ms.marinelicensing@gov.scot)

Marine Harvest (Scotland) Ltd.  
Farms Office, Blar Mhor Industrial Estate  
Fort William, PH33 7TP  
Telephone 01397 701 550  
Mobile  
Fax 01397 701 174

Date: 3rd February 2017

We intend to discharge the following used chemical from the wellboat Inter Caledonia in compliance with licence conditions.  
Actual times of discharge are subject to weather and workload.

Site	Theraputant	Active Ingredient	Quantity (up to) grams	Date	
				Start	End
Cairidh 05996/16/0	Salmosan Vet (Fish Vet Group)	Azimethiphos	220g	0900hrs 04/02/2017	07/02/2017
Maol Ban 06021/16/0	Salmosan Vet (Fish Vet Group)	Azimethiphos	2530g	0900hrs 04/01/2017	26/02/2017
Sconser 06018/16/0	Salmosan Vet (Fish Vet Group)	Azimethiphos	1210g	1400hrs 04/02/2017	26/02/2017



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To: Stephen MacIntyre  
Marianne MacPherson  
SEPA Fort William

From: Sabina Wilinska

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[RegistryDingwall@sepa.org.uk](mailto:RegistryDingwall@sepa.org.uk)

Date: 06th January 2017

We intend to discharge the following in compliance with consent conditions:

Site Name	Site	Therapeutant	Active Ingredient	Quantity (up to) Grams	Biomass (T)	Start	End
Shuna	CAR/L/1109 280	Salmosan	Azamethiphos	2240g	229T	9th January	20th January



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SEPA Fort William

From: Sabina Wilinska

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[RegistryDingwall@sepa.org.uk](mailto:RegistryDingwall@sepa.org.uk)

Date: 19<sup>th</sup> April 2017

We intend to discharge the following in compliance with consent conditions:

Site Name	Site	Therapeutant	Active Ingredient	Quantity (up to) g of active ingredient	Biomass (T)	Start	End
Maclean's Nose	CAR/L/100 2965	Salmosan 880g	Azamethiphos	440g	30T	21st April 2017	22nd April 2017



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[RegistryDingwall@sepa.org.uk](mailto:RegistryDingwall@sepa.org.uk)

Date: 06th January 2017

We intend to discharge the following in compliance with consent conditions:

Site Name	Site	Therapeutant	Active Ingredient	Quantity (up to) Grams	Biomass (T)	Start	End
PNG	CAR/L/1000 800	Salmosan	Azamethiphos	4160g	338T	9th January	20th January



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Date: 06th January 2017

We intend to discharge the following in compliance with consent conditions:

Site Name	Site	Therapeutant	Active Ingredient	Quantity (up to) Grams	Biomass (T)	Start	End
BDNC	CAR/L/1004 226	Salmosan	Azamethiphos	2660g	547T	9th January	20th January



To Marine Scotland

From: Charlotte Maddocks  
[charlotte.maddocks@marineharvest.com](mailto:charlotte.maddocks@marineharvest.com)

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Stob Ban House,  
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Telephone 01397 701 550  
Mobile  
Fax 01397 701 174

Date: 19th June 2017

We intend to discharge the following in accordance with consent conditions

Site	Therapeutant	Active Ingredient	Quantity (up to) grams	Biomass	Date	
					Start	End
North Shore West CAR/L/1004085; North Shore East CAR/L/1129789; Tabhigh CAR/L/1129793/VN01	Salmosan Vet	Azamethiphos	220g;220g; 240g repectively	2500T	21/06/2017	



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[RegistryDingwall@sepa.org.uk](mailto:RegistryDingwall@sepa.org.uk)

Date: 26th May 2017

We intend to discharge the following in compliance with consent conditions:

Site Name	Site	Therapeutant	Active Ingredient	Quantity (up to) Grams	Biomass (T)	Start	End
Camus Glas	CAR/L/100 9965	Salmosan 1760g	Azamethiphos	880g	104T	28 <sup>th</sup> May	31 <sup>st</sup> May



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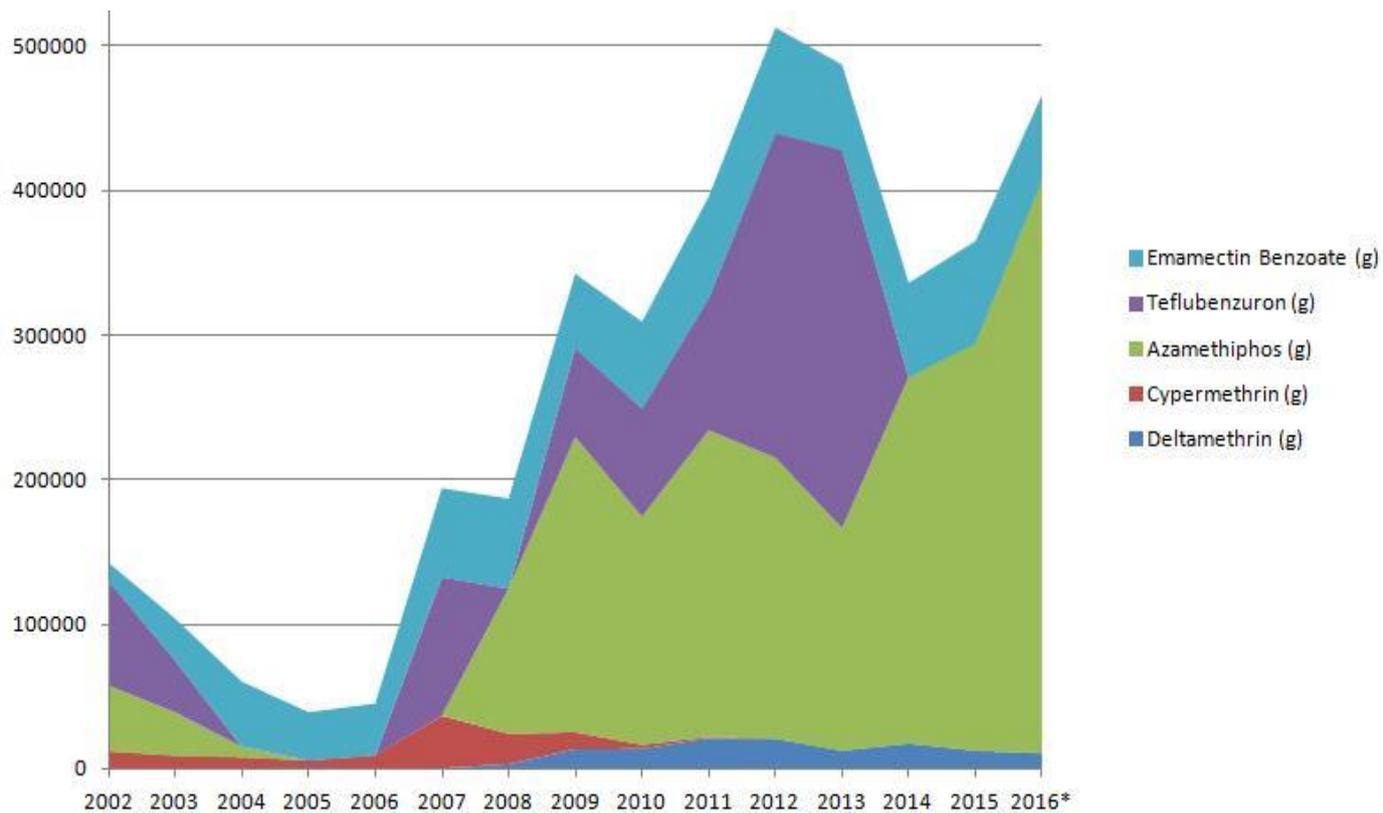
Date: 25<sup>th</sup> April 2017

We intend to discharge the following in compliance with consent conditions:

Site Name	Site	Therapeutant	Active Ingredient	Quantity (up to) g of active ingredient	Biomass (T)	Start	End
Linnhe	CAR/L/1009 970	Salmosan 200g	Azamethiphos	100g	99T	27th April	27th April

The Global Alliance Against Industrial Aquaculture reported in February 2018 via "[The Scottish Salmon Polluters Organisation](#)":

The use of [toxic chemicals](#) on Scottish salmon [leapt 1000% over the last decade](#) - with SSPO member producers winning gold medals for the use of Emamectin benzoate ([shown to be lethal to lobsters](#)), Teflubenzuron (now [banned following evidence it can kill crabs, shrimp and lobsters](#)), Azamethiphos ([shown to cause neuromuscular dysfunction, hypoxia, metabolic disturbances and mortality in lobsters](#)), Cypermethrin ("[particularly toxic to crustacea](#)") and Deltamethrin ([fast-tracked for use by SEPA](#)):



- Since 2002, Marine Harvest has used the most Azamethiphos (700 kg), Cypermethrin (38 kg), Deltamethrin (63 kg) and Emamectin benzoate (289 kg) and is responsible for the most mortalities (43,802 tonnes) whilst Scottish Sea Farms has used the most Teflubenzuron (334 kg)

- The sites using the most of each toxic chemical in a single treatment are:

Azamethiphos (Marine Harvest: Ardintoul in Loch Alsh in December 2015)

Cypermethrin (The Scottish Salmon Company: Vacasay in Loch Roag in March 2008)

Deltamethrin (Marine Harvest: Sron in Loch Alsh in March 2016)

Emamectin benzoate (Scottish Sea Farms in Vidlin North in Vidlin Voe in December 2011)

Teflubenzuron (Scottish Sea Farms in Teisti Geo in Clift Sound in May 2013)

<b>Company Summary (2002-2016)</b>						
<b>Operator</b>	<b>Morts (t)</b>	<b>Delt (g)</b>	<b>Cyp (g)</b>	<b>Aza (g)</b>	<b>Tefl (g)</b>	<b>Em b (g)</b>
<b>Marine Harvest</b>	<b>43802</b>	<b>62831</b>	<b>37782</b>	<b>700344</b>	131995	<b>288706</b>
<b>The Scottish Salmon Co.</b>	26060	36495	37503	382510	153600	158109
<b>Scottish Sea Farms</b>	25060	12155	25509	330313	<b>334207</b>	137652
<b>Grieg Seafood</b>	22653	1660	112	239745	0	105983
<b>Cooke Aquaculture</b>	20535	348	724	57029	0	29341
<b>Loch Duart</b>	7189	4806	11216	159290	92935	32612

<b>Top 20 Uses of Azamethiphos (2002-2016)</b>					
<b>Year</b>	<b>Azamethiphos (g)</b>	<b>Site Name</b>	<b>Operator</b>	<b>Receiving Water</b>	<b>Local Authority</b>
01-Dec-15	13650	Ardintoul	Marine Harvest (Scotland) Ltd	Loch Alsh	Highland
01-Sep-16	10330	Soay Sound	Marine Harvest (Scotland) Ltd	West Loch Tarbert	Eilean Siar
01-Jun-14	7600	Gousam	The Scottish Salmon Company Ltd	Loch Roag	Eilean Siar
01-Feb-15	7350	Camas an Leim (Torridon)	Marine Harvest (Scotland) Ltd	Loch Torridon	Highland
01-Jul-08	7200	Brei Geo Offshore	Scottish Sea Farms Ltd	Sandsound Voe	Shetland Islands
01-Dec-10	7000	Burrastow	Cooke Aquaculture Scotland	Vaila Sound	Shetland Islands
01-Sep-08	6674	Camas an Leim (Torridon)	Marine Harvest (Scotland) Ltd	Loch Torridon	Highland
01-Sep-16	6340	Carradale (North)	Marine Harvest (Scotland) Ltd	Kilbrannan Sound	Argyll and Bute
01-Jan-16	6175	Ardintoul	Marine Harvest (Scotland) Ltd	Loch Alsh	Highland
01-Jun-15	5950	Camas an Leim (Torridon)	Marine Harvest (Scotland) Ltd	Loch Torridon	Highland
01-Jul-11	5920	Papa, East Head of Scalloway	Grieg Seafood Shetland Ltd	The Deeps	Shetland Islands
01-Jun-16	5850	Ardintoul	Marine Harvest (Scotland) Ltd	Loch Alsh	Highland
01-Aug-16	5800	Vula Mor	The Scottish Salmon Company Ltd	Loch Roag	Eilean Siar
01-Oct-14	5700	Seaforth	Marine Harvest (Scotland) Ltd	Loch Seaforth	Eilean Siar
01-Sep-08	5307	Ardgour (Linnhe)	Marine Harvest (Scotland) Ltd	Loch Linnhe	Highland
01-Sep-11	5250	Aird Ardhleslaig	The Scottish Salmon Company Ltd	Loch Sheildaig	Highland
01-Apr-15	5250	Camas an Leim (Torridon)	Marine Harvest (Scotland) Ltd	Loch Torridon	Highland
01-Mar-15	5250	Camas an Leim (Torridon)	Marine Harvest (Scotland) Ltd	Loch Torridon	Highland
01-Apr-15	5100	Isle of Ewe	Marine Harvest (Scotland) Ltd	Loch Ewe	Highland
01-Jul-08	4901	Fore Holm	Scottish Sea Farms Ltd	Sandsound Voe	Shetland Islands

<b>Top 20 Uses of Emamectin Benzoate (2002-2016)</b>					
<b>Year</b>	<b>Em benz (g)</b>	<b>Site Name</b>	<b>Operator</b>	<b>Receiving Water</b>	<b>Local Authority</b>
01-Dec-11	1474	Vidlin North	Scottish Sea Farms Ltd	Vidlin Voe	Shetland Islands
01-Jun-04	1313	Scallastle Bay	Scottish Sea Farms Ltd	Sound of Mull	Argyll and Bute
01-Jan-13	1272	Camas an Leim (Torridon)	Marine Harvest (Scotland) Ltd	Loch Torridon	Highland
01-Dec-11	1200	Bellister	Scottish Sea Farms Ltd	Dury Voe	Shetland Islands
01-Dec-03	1190	Binna Ness	Scottish Sea Farms Ltd	Stromness Voe	Shetland Islands
01-May-12	1175	Invasion Bay	Marine Harvest (Scotland) Ltd	Loch Sunart	Highland
01-Mar-11	1088	Ardgour (Linnhe)	Marine Harvest (Scotland) Ltd	Loch Linnhe	Highland
01-Feb-13	1064	Ardgour (Linnhe)	Marine Harvest (Scotland) Ltd	Loch Linnhe	Highland
01-Jun-04	1055	Greshornish	Marine Harvest (Scotland) Ltd	Loch Snizort	Highland
01-Jul-04	1050	Eishort	Marine Harvest (Scotland) Ltd	Loch Eishort	Highland
01-Dec-04	1049	Skipport Outer (Ornish)	Marine Harvest (Scotland) Ltd	Loch Skipport	Eilean Siar
01-Aug-11	1045	Ardgour (Linnhe)	Marine Harvest (Scotland) Ltd	Loch Linnhe	Highland
01-Oct-09	1007	Druimyeon Bay	The Scottish Salmon Company Ltd	Sound of Gigha	Argyll and Bute
01-Nov-11	1001	Maol Ban	Marine Harvest (Scotland) Ltd	Inner Sound	Highland
01-Dec-04	996	Gorsten	Marine Harvest (Scotland) Ltd	Loch Linnhe	Highland
01-Aug-04	978	Duich	Marine Harvest (Scotland) Ltd	Loch Duich	Highland
01-Mar-09	975	Gorsten	Marine Harvest (Scotland) Ltd	Loch Linnhe	Highland
01-Dec-04	975	Ardgour (Linnhe)	Marine Harvest (Scotland) Ltd	Loch Linnhe	Highland
01-Jun-04	969	Skipport Outer (Ornish)	Marine Harvest (Scotland) Ltd	Loch Skipport	Eilean Siar
01-Jun-12	945	Scallastle Bay	Scottish Sea Farms Ltd	Sound of Mull	Argyll and Bute

SSPO member producers have also been caught [breaching SEPA's biomass limits](#) (i.e. producing more salmon than permitted):

Top 20 Biomass Exceedances (t)						
Year	Biomass Exceedence (t)	Site Name	Operator	Maximum Biomass Allowed (t)	Receiving Water	Local Authority
01-Jul-02	827	East of Hildasay	Scottish Sea Farms Ltd	1500	The Deeps	Shetland Islands
01-Mar-14	800	Poll na Gille	Marine Harvest (Scotland) Ltd	1500	Sound of Jura	Argyll and Bute
01-Feb-14	778	Poll na Gille	Marine Harvest (Scotland) Ltd	1500	Sound of Jura	Argyll and Bute
01-Mar-03	717	Mid Taing	Cooke Aquaculture Scotland	500	Gruting Voe	Shetland Islands
01-Jan-14	682	Poll na Gille	Marine Harvest (Scotland) Ltd	1500	Sound of Jura	Argyll and Bute
01-Feb-03	675	Mid Taing	Cooke Aquaculture Scotland	500	Gruting Voe	Shetland Islands
01-Jan-02	581	Mid Loch Shell / Pairc - West (A & B cage groups)	Marine Harvest (Scotland) Ltd	1331	Loch Shell	Eilean Siar
01-Jun-03	573	Dales Voe (South)	Hunter Salmon	100	Dales Voe, Delting	Shetland Islands
01-Apr-10	569	Maol Ban	Marine Harvest (Scotland) Ltd	2250	Inner Sound	Highland
01-Aug-07	565	Erisort, North Shore West	Marine Harvest (Scotland) Ltd	1650	Loch Erisort	Eilean Siar
01-Dec-12	549	Callert (Leven)	Marine Harvest (Scotland) Ltd	1450	Loch Leven	Highland
01-Jun-02	517	East of Hildasay	Scottish Sea Farms Ltd	1500	The Deeps	Shetland Islands
01-Nov-07	514	Erisort, North Shore West	Marine Harvest (Scotland) Ltd	1650	Loch Erisort	Eilean Siar
01-Jun-07	508	Ardgour (Linnhe)	Marine Harvest (Scotland) Ltd	2500	Loch Linnhe	Highland
01-Aug-02	505	East of Hildasay	Scottish Sea Farms Ltd	1500	The Deeps	Shetland Islands
01-Oct-07	495	Erisort, North Shore West	Marine Harvest (Scotland) Ltd	1650	Loch Erisort	Eilean Siar
01-Feb-02	491	Mid Loch Shell / Pairc - West (A & B cage groups)	Marine Harvest (Scotland) Ltd	1331	Loch Shell	Eilean Siar
01-Jun-08	485	Wick of Belmont North	Cooke Aquaculture Scotland	1720	Bluemull Sound	Shetland Islands
01-Aug-07	482	Isle of Ewe	Marine Harvest (Scotland) Ltd	1027	Loch Ewe	Highland
01-May-03	480	Dales Voe (South)	Hunter Salmon	100	Dales Voe, Delting	Shetland Islands

Read more via [The Sunday Times: "Salmon industry toxins soar by 1000 per cent"](#); ["Scottish Salmon's Lethal Legacy - Ten-fold Increase in Toxic Chemical Use in Ten Years"](#); [Press & Journal: "Scottish salmon farming 'fighting a losing battle' against sea lice"](#); ["Scottish fish farmers use record amounts of parasite pesticides"](#) and ["Sharp rise reported in Scots fish lice chemical"](#).

Given the industry's reliance on drugs and chemicals it is not surprising that SSPO member producers have been [caught by the Veterinary Medicines Directorate with chemical contamination of farmed salmon](#). Emamectin contamination of Scottish farmed salmon has now occurred at least eight times (including The Scottish Salmon Company in 2016 and 2012, Scottish Sea Farms in 2006 and Marine Harvest in 2005):



Read more via "[Scottish Salmon Overdoses on Toxic Chemical](#)"; [Daily Mail: "The toxic chemicals in farmed salmon straight from the loch"](#) and "[Emamectin residues in farmed salmon](#)"

For more details on the environmental impacts of toxic chemicals used by salmon farms read:

[Fish Farmageddon: Scottish Salmon's Lethal Legacy - Ten-fold Increase in Toxic chemical Use in Ten Years](#)

[Scientific Backgrounder: Ecotoxicity & Chemical Resistance](#)

[Toxic Toilets: Salmon Farms Pollute Scotland's Lochs](#)

[Scottish Salmon Farming 101](#)

[Silent Spring of the Sea](#)

### Antibiotic & Hydrogen Peroxide Use in 2017:

Data obtained from SEPA via FOI on 4 April 2018 detailed the use of antibiotics and hydrogen peroxide at Marine Harvest sites during 2017 - including 3,333,356 litres of hydrogen peroxide; 206,800 grams of Aquatet (Oxytetracycline hydrochloride) and 314,351 grams of Florocol (Florfenicol):

Year	Operator	Site Name	Hydrogen Peroxide (litres)	Aquatet (g)	Florocol (g)
2017	Marine Harvest	Ardintoul	137336		
2017	Marine Harvest	Camus Glas	155164	50000	
2017	Marine Harvest	Cairidh	48500		
2017	Marine Harvest	Colonsay			11500
2017	Marine Harvest	Duich	37759	4800	
2017	Marine Harvest	Eilean Grianain (Carradale) South		41823	28846
2017	Marine Harvest	Eilean Grianain (Carradale) North		66177	
2017	Marine Harvest	Erisort, North Shore West	228185		27783
2017	Marine Harvest	Erisort, North Shore East	145524		91217
2017	Marine Harvest	Poll na Gille	159000		86000
2017	Marine Harvest	Bagh Dail nan Ceann	238099		60005
2017	Marine Harvest	Port na Cro	64888		
2017	Marine Harvest	Grey Horse Channel	154965		
2017	Marine Harvest	Greshornish	189065		
2017	Marine Harvest	Groatay	152503		
2017	Marine Harvest	Hellisay	127443		
2017	Marine Harvest	Creag an Sagairt West	185000		
2017	Marine Harvest	Invasion Bay	96200		
2017	Marine Harvest	Isle of Ewe	53349		
2017	Marine Harvest	Maol Ban	48000		
2017	Marine Harvest	MacLeans Nose	224661	20000	9000

2017	Marine Harvest	Noster	127015	11946	
2017	Marine Harvest	Seaforth	127110	12054	
2017	Marine Harvest	Skipport Outer (Ornish)	110639		
2017	Marine Harvest	Sron	306557		
2017	Marine Harvest	Tabhaigh	216394		

Excel spreadsheet detailing antibiotic and hydrogen peroxide use by Scottish salmon farms during 2017 available [online here](#)

Here's data detailing the top 20 sites using the largest quantities of hydrogen peroxide during 2015 ([sourced from SEPA via FOI](#)):

1	Year	Site Name	Operator (at date of submission)	Local Authority	Hydrogen Peroxide (litres)
2	2015	Camas an Leim (Torridon)	Marine Harvest (Scotland) Ltd	Highland	1018616
3	2015	Ardintoul	Marine Harvest (Scotland) Ltd	Highland	753450
4	2015	Creag an Sagairt West	Marine Harvest (Scotland) Ltd	Highland	464529
5	2015	North Havra	Grieg Seafood Shetland Ltd	Shetland Islands	424000
6	2015	Easter Score Holm	Grieg Seafood Shetland Ltd	Shetland Islands	417700
7	2015	East of Langa	Grieg Seafood Shetland Ltd	Shetland Islands	398600
8	2015	Greanamul	The Scottish Salmon Company Ltd	Eilean Siar	394091
9	2015	Poll na Gille	Marine Harvest (Scotland) Ltd	Argyll and Bute	387150
10	2015	Sgeir Dughall	The Scottish Salmon Company Ltd	Highland	382272
11	2015	Rubh an Trilleachain	Kames Fish Farming Ltd	Argyll and Bute	376000
12	2015	Isle of Ewe	Marine Harvest (Scotland) Ltd	Highland	369250
13	2015	Spoose Holm (Oxna)	Grieg Seafood Shetland Ltd	Shetland Islands	368600
14	2015	Aird Ardheslaig	The Scottish Salmon Company Ltd	Highland	343548
15	2015	West of Burwick	Grieg Seafood Shetland Ltd	Shetland Islands	335700
16	2015	Soay Sound	Marine Harvest (Scotland) Ltd	Eilean Siar	287455
17	2015	Sron	Marine Harvest (Scotland) Ltd	Highland	281700
18	2015	Papa, East Head of Scalloway	Grieg Seafood Shetland Ltd	Shetland Islands	277000
19	2015	Stulaigh Island	Marine Harvest (Scotland) Ltd	Eilean Siar	276959
20	2015	Ardmaddy South	Marine Harvest (Scotland) Ltd	Argyll and Bute	271903
21	2015	Erisort, North Shore East	Marine Harvest (Scotland) Ltd	Eilean Siar	271215

Here's an empty vat of Hydrogen Peroxide outside a Marine Harvest salmon farm in North Uist, Outer Hebrides:



The Sunday Times [reported](#) (12 February 2017):

The world's largest salmon farmer has expressed "concern" over the use of chemicals to fight disease after a record 20m litres of hydrogen peroxide – a substance harmful to fish – were dumped into coastal waters around Scotland.

More than 160 farms resorted to the chemical in 2015 to tackle parasites such as sea lice, according to the Scottish Environment Protection Agency (Sepa).

Enough hydrogen peroxide was used to fill eight Olympic-size swimming pools, including more than 1m litres at a site operated by Marine Harvest, the Norwegian-owned firm.

On Friday, Marine Harvest said it is "concerned" by the industry's "increased use of medicines" to tackle parasites, which it said have flourished in recent years due to warmer coastal waters. The multibillion-pound firm said it is exploring new ways to protect farmed fish from deadly infections such as amoebic gill disease.

Here's data detailing salmon farms which used antibiotics in 2014-2015 ([sourced from SEPA via FOI](#)):

Year	Site Name	Operator	Local Authority	Aquatet (g)	Florocol (g)
2015	Ardintoul	Marine Harvest (Scotland) Ltd	Highland		13800
2015	Camus Glas	Marine Harvest (Scotland) Ltd	Highland	12500	14000
2015	Lyrawa Bay	Cooke Aquaculture Scotland	Orkney Islands		31800
2015	Pegal Bay	Cooke Aquaculture Scotland	Orkney Islands		52750
2015	Stead of Aithness	Cooke Aquaculture Scotland	Shetland Islands		19250

Year	Site Name	Operator	Local Authority	Aquatet (g)	Florocol (g)
2014	Ardgour (Linnhe)	Marine Harvest (Scotland) Ltd	Highland	761500	
2014	Kames Bay	Kames Fish Farming Ltd	Argyll and Bute		1993
2014	Gorsten	Marine Harvest (Scotland) Ltd	Highland	3200	
2014	Greshornish	Marine Harvest (Scotland) Ltd	Highland		14000
2014	Hellisay	Marine Harvest (Scotland) Ltd	Eilean Siar	3000	
2014	Invasion Bay	Marine Harvest (Scotland) Ltd	Highland	30.7	
2014	Isle of Ewe	Marine Harvest (Scotland) Ltd	Highland		12000
2014	Portnalong	Marine Harvest (Scotland) Ltd	Highland	743400	
2014	Skipport Outer (Ornish)	Marine Harvest (Scotland) Ltd	Eilean Siar	8150	
2014	Stead of Aithness	Cooke Aquaculture Scotland	Shetland Islands		19250
2014	North Voe	Hjaltland Seafarms Ltd	Shetland Islands		7000

The Global Alliance Against Industrial Aquaculture reported in February 2018 via ['The Scottish Salmon Polluters Organisation'](#):

Data on antibiotic use [reveals that SSPO member producers are the biggest drug users](#):

Marine Harvest accounted for 87% of all antibiotics used (2002-2015) with Kames, Loch Duart, Grieg Seafood, Scottish Seafarms and Cooke Aquaculture using lesser quantities (the Scottish Salmon Company and Wester Ross Fisheries reported zero use of antibiotics):

	<b>Total Antibiotic Use (g)</b>
<b>Marine Harvest</b>	<b>14,153,064</b>
<b>Kames</b>	<b>379,404</b>
<b>Loch Duart</b>	<b>284,166</b>
<b>Grieg Seafood</b>	<b>248,830</b>
<b>Scottish Seafarms</b>	<b>123,411</b>
<b>Cooke Aquaculture</b>	<b>123,050</b>

Aquatet (Oxytetracycline) was used by 101 salmon farms - here's the top 20 biggest users (Marine Harvest accounts for 19 out of the top 20):

Site ID	Year	Site Name	Licence	Operator	Local Authority	Aquatet (g)
ARDT1	2006	Ardintoul Bay	WPC/N/61833(01)	Marine Harvest (Scotland) Ltd	Highland	4039400
GORS2	2007	Gorsten North	WPC/N/73270	Marine Harvest (Scotland) Ltd	Highland	789000
ARDG1	2014	Ardgour (Linnhe)	CAR/L/1009970	Marine Harvest (Scotland) Ltd	Highland	761500
PORL1	2014	Portnalong	CAR/L/1002889	Marine Harvest (Scotland) Ltd	Highland	743400
CAS1	2007	Creag an Sagairt	WPC/N/61327(02)	Marine Harvest (Scotland) Ltd	Highland	575000
DUI1	2006	Duich	WPC/N/61865(01)	Marine Harvest (Scotland) Ltd	Highland	480000
CAS1	2009	Creag an Sagairt	CAR/L/1001816	Marine Harvest (Scotland) Ltd	Highland	480000
ARDG1	2008	Ardgour (Linnhe)	CAR/L/1009970	Marine Harvest (Scotland) Ltd	Highland	440500
MBM1	2009	Marulaig Bay	CAR/L/1028518	Marine Harvest (Scotland) Ltd	Eilean Siar	429000
GORS1	2005	Gorsten	WPC/N/70151	Marine Harvest (Scotland) Ltd	Highland	420000
ARDG1	2005	Ardgour (Linnhe)	WPC/N/61830(00)	Marine Harvest (Scotland) Ltd	Highland	375000
CAG1	2003	Camus Glas	WPC/N/0070126	Marine Harvest (Scotland) Ltd	Highland	337500
DUI1	2005	Duich	WPC/N/61865(00)	Marine Harvest (Scotland) Ltd	Highland	329985
FFMC04N	2012	Port na Moine North	CAR/L/1020918	Meridian	Argyll and Bute	316250
KING1	2006	Kingairloch	WPC/N/61831(01)	Marine Harvest (Scotland) Ltd	Highland	298800
INV1	2005	Invasion Bay	WPC/N/61386	Marine Harvest (Scotland) Ltd	Highland	274000
CAL1	2009	Camas an Leim	CAR/L/1010002	Marine Harvest (Scotland) Ltd	Highland	240500
INV1	2009	Invasion Bay	CAR/L/1009162	Marine Harvest (Scotland) Ltd	Highland	220000
ACAM1	2009	An Camus	CAR/L/1003078	Marine Harvest (Scotland) Ltd	Eilean Siar	216000
LAG1	2003	Laga Bay	WPC/N/62120(00)	Marine Harvest (Scotland) Ltd	Highland	195000

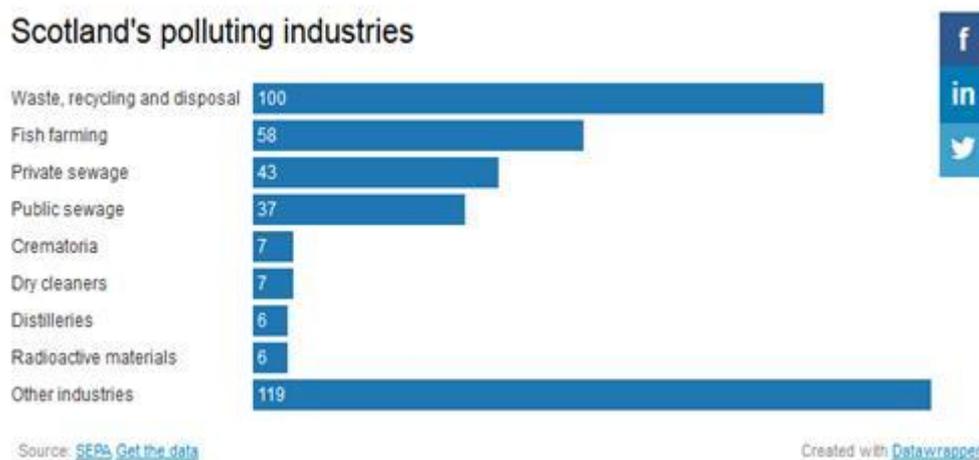
Read more via:

[Antibiotic-ridden Scottish Salmon: FOI reveals of Oxytetracycline, Florfenicol, Amoxicillin and Fenbendazole](#)

## **Failing Fish Farms - 9 salmon farms assessed by SEPA as "Poor" in 2016 and 13 failing sites in 2015:**

The Global Alliance Against Industrial Aquaculture reported in February 2018 via ['The Scottish Salmon Polluters Organisation'](#):

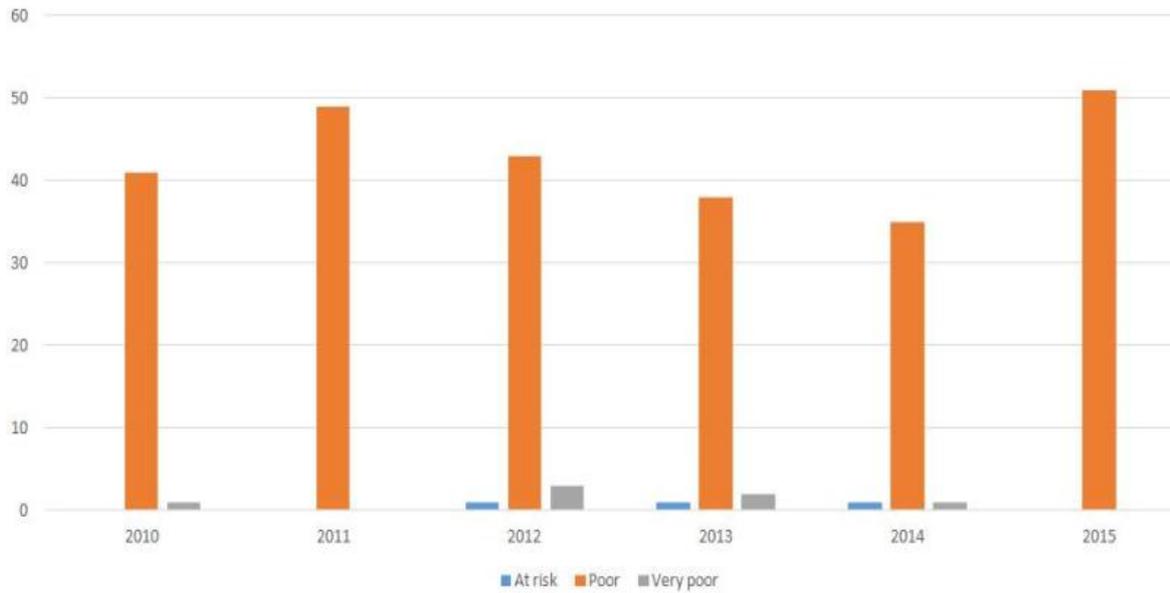
Data from SEPA ranked fish farms as 2nd worst out of "[Scotland's polluting industries](#)" - with SSPO member producers guilty of the vast majority of fish farm pollution breaches:



Read more via "[Exposed: the 383 plants that pollute Scotland](#)" and "[Mapped: the hundreds of firms condemned for 'poor' pollution performance](#)"

Almost a fifth (18%) of Scottish fish farms were [classified by SEPA](#) as failing and responsible for "at least one significant breach" in 2015. SSPO member Marine Harvest, Scotland's largest salmon farming company, was the worst operator with 13 "failing" salmon farms in 2015 (that's 27% of the 49 marine salmon farms operated by Marine Harvest).

### Marine Cage Fish Farms failing 2010-2015



- Marine Harvest is the worst operator followed by the Scottish Salmon Company, Scottish Seafarms, Cooke Aquaculture, Hjaltland Seafarms (Grieg Seafood) and Loch Duart

SEPA'S "FAILING" MARINE CAGE FISH FARMS - 2015		
OPERATOR	AUTH NO	LICENCED SITE
Marine Harvest	CAR/L/1009970	Ardgour MCFF, Loch Linnhe
Marine Harvest	CAR/L/1002887	Ardnish MCFF, Loch Ailort
Marine Harvest	CAR/L/1002346	Balmeanach Bay MCFF, Sound of Raasay
Marine Harvest	CAR/L/1078064	Eilean Grianain, Carradale
Marine Harvest	CAR/L/1025571	Grey Horse Channel MCFF
Marine Harvest	CAR/L/1095612	Hellisay, Sound of Hellisay, Isle of Barra
Marine Harvest	CAR/L/1002963	Isle of Ewe MCFF, Loch Ewe
Marine Harvest	CAR/L/1003887	Kingairloch MCFF, Loch A Choire
Marine Harvest	CAR/L/1028518	Marulaig Bay MCFF, Loch Boisdale, S Uist
Marine Harvest	CAR/L/1001968	Outer Loch Skipport MCFF, Loch Skipport
Marine Harvest	CAR/L/1004080	Scotasay MCFF, East Loch Tarbert
Marine Harvest	CAR/L/1009963	Seaforth MCFF, Loch Seaforth, Isle of Harris
Marine Harvest	CAR/L/1004053	Soay Sound MCFF, West Loch Tarbert

- The 16 worst salmon farms (who all "failed" for three years out of the five years of SEPA's compliance assessment) included four sites operated by Cooke Aquaculture, four by the Scottish Salmon Company, three by Grieg Seafood, three by Marine Harvest, one by Scottish Seafarms and one by Wester Ross Fisheries.

1	AUTH NO	LICENCED SITE	PRINCIPAL CONTACT	Number of Years Non Compliant
2	CAR/L/1001809	Corry MCFF, Loch Broom	WESTER ROSS FISHERIES LIMITED	3
3	CAR/L/1016394	Druimyeon Bay MCFF, Isle of Gigha	THE SCOTTISH SALMON COMPANY LTD	3
4	CAR/L/1078064	Eilean Grianain, Carradale	MARINE HARVEST (SCOTLAND) LIMITED	3
5	CAR/L/1010773	Gob a'Bharra North MCFF, Loch Fyne	THE SCOTTISH SALMON COMPANY LTD	3
6	CAR/L/1000809	Inch Kenneth MCFF, Loch na Keal	THE SCOTTISH SALMON COMPANY LTD	3
7	CAR/L/1002963	Isle of Ewe MCFF, Loch Ewe	MARINE HARVEST (SCOTLAND) LTD	3
8	CAR/L/1015765	Lax Firth East MCFF, Lax Firth	GRIEG SEAFOOD SHETLAND LIMITED	3
9	CAR/L/1004069	Mid Strome MCFF, Loch Carron	THE SCOTTISH SALMON COMPANY LTD	3
10	CAR/L/1002983	North of Papa MCFF, North Voe	GRIEG SEAFOOD SHETLAND LIMITED	3
11	CAR/L/1003106	Pobie Sukka MCFF, Ronas Voe	SCOTTISH SEA FARMS LIMITED	3
12	CAR/L/1004053	Soay Sound MCFF, West Loch Tarbert	MARINE HARVEST (SCOTLAND) LTD	3
13	CAR/L/1004035	Taing of Rallsborough MCFF, Cat Firth	GRIEG SEAFOOD SHETLAND LIMITED	3
14	CAR/L/1005091	Vee Taing MCFF, Uyea Sound	COOKE AQUACULTURE SCOTLAND LIMITED	3
15	CAR/L/1002996	Vest Ness MCFF, Papa Sound	COOKE AQUACULTURE SCOTLAND LIMITED	3
16	CAR/L/1001931	West Scargun Shoal MCFF, Wide Firth	COOKE AQUACULTURE SCOTLAND LIMITED	3
17	CAR/L/1004201	Wick of Vatsetter MCFF, South Sound	COOKE AQUACULTURE SCOTLAND LIMITED	3

Download the non-compliance data for 2011-2015 as an Excel spreadsheet [online here](#)

Here's an analysis by SEPA of the 37 "failing" marine fish farms in 2014:



## Company Distribution

Company	Number of Failing Sites
Marine Harvest	11
The Scottish Salmon Company	6
Scottish Sea Farms	6
Cooke Aquaculture	4
Hjaltland Seafarms	4
Loch Duart	4
Kames Fish Farming	1
Wester Ross Fisheries	1

Marine cage fish farms reported as "failing" by SEPA in 2015 included:

**Marine Harvest - Soay Sound, West Loch Tarbert (CAR/L/1004053)**

Soay Sound marine cage fish farm is Poor for 2015 due to an Unsatisfactory seabed survey. This resulted in SEPA imposing a 25% reduction in the site's maximum biomass. It is hoped that this will sufficiently reduce the impact the farm is having on the environment.

[Note a news report in The Herald: "[Alert over salmon deaths crisis on Scots fish farms caused by infectious disease](#)" (29 October 2016)]

**Marine Harvest - Loch Seaforth, Isle of Harris (CAR/L/1009963)**

Seaforth marine cage fish farm is Poor for 2015 due to the seabed survey conducted 11/11/14 and submitted to SEPA on 03/03/15 being classified as Unsatisfactory. SEPA is working with the operator to reduce the impact the farm is having on the environment.

**Marine Harvest - Scotasay, East Loch Tarbert (CAR/L/1004080)**

Scotasay marine cage fish farm is Poor for 2015 due to repeated exceedence of the licensed Azamethiphos discharge limit. The situation arose from an administrative error which has now been resolved.

**Marine Harvest - Grey Horse Channel (CAR/L/1025571)**

Grey Horse Channel marine cage fish farm is a failing site for 2015 as a result of the seabed survey conducted on 04.02.15 and submitted to SEPA on 28.05.15 being classified as Unsatisfactory. SEPA is working with the operator to reduce the environmental impact from the farm.

[Read more about mortalities at Grey Horse Channel via "['Thermolicer' Back-Fires Killing 95,400 Farmed Salmon](#)"]

**Marine Harvest - Hellisay, Sound of Hellisay, Isle of Barra (CAR/L/1095612)**

Hellisay marine cage fish farm is Poor classification for 2015 as it is outwith the modelled location which meant the seabed survey was not accepted. Biomass and stocking density licence conditions were also breached. SEPA is working with the operator to improve licence compliance and reduce the environmental impact from the farm.

**Marine Harvest - Isle of Ewe, Loch Ewe (CAR/L/1002963)**

The results of the self monitoring sea bed survey submitted to SEPA in August 2015 was assessed by SEPA as having an unsatisfactory impact on the sea bed in the vicinity of the site. SEPA initiated variation reduced licensed biomass by 25%.

[Read more about disease problems in Loch Ewe via "[Virulent disease at Marine Harvest salmon farms raises concerns over potential impacts on wild fish](#)"]

## Marine Harvest - Marulaig Bay, Loch Boisdale, South Uist (CAR/L/1028518)

Marulaig Bay marine cage fish farm is Poor for 2015 due to a cage edge Emamectin Benzoate residue failure and a breach in the stocking density licence condition. SEPA is working with the operator to improve licence compliance and reduce the environmental impact from the farm.



### MARINE FISH FARM MONITORING REPORT

Report From **Marine Ecology Aquaculture Advice**  
Report To **Operations**

#### SITE DETAILS

Company	<b>Marine Harvest (Scotland) Ltd</b>
Location	<b>Skipport Outer (Ornish)</b>
Receiving Water	<b>Loch Skipport</b>
Cage Group	
Licence	<b>CAR/L/1001968</b>
NGR	<b>NF 8527 3853</b>
Team	<b>Hebrides &amp; Central Highland</b>
Site ID	<b>SKIO1</b>

#### SURVEY DETAILS

Monitoring Method	<b>Benthic</b>
Survey Type	<b>Self Monitoring</b>
Survey Date	<b>05/02/2015</b>
Received Date	<b>29/05/2015</b>
Report Date	<b>07/10/2015</b>
Biomass (t)	<b>1013</b>
Maximum Biomass (t)	<b>1710</b>
Survey ID	<b>N 4035</b>

**CLASSIFICATION: Unsatisfactory**

Here's a report from Marine Harvest detailing "very high residues...causing a breach against the SEPA EQS":

#### Results – 2014

Three treatments were undertaken during 2014 up to the time of writing this report. Samples were taken in accordance with the SEPA Monitoring Protocol during the benthic monitoring survey and are presented on the following page.

Very high residues were present in two replicates at the cage edge causing a breach against the SEPA EQS. Residues were not detected in the far field samples therefore passing the SEPA EQS.

Sealice In-Feed Treatment Residues

Sealice In-Feed Treatment Residues Details					
Site Name	Marulaig Bay				
Submitted By	Marine Harvest (Scotland) Ltd				
Licence active at time of report	CARL/1028518				
Treatment Name	Slice				
Active Ingredient	Emamectin Benzoate				
End of Treatment Date	31/07/2014				
Sample Date	25/11/2014				
Days between End of Treatment and Sample Date	117				
	Residues Results Micrograms per Kilogram			Environmental Quality Standard Micrograms per Kilogram	
Replicate	1	2	3	Emamectin Benzoate	Teflubenzuron
Cages	23.28	25.5	6.72	7.63	10000
25m				7.63	10000
100m	ND	ND	ND	0.763	2
150m				0.763	2

Data supplied by SEPA on 05/12/2010

Location Details	
Receiving Water	Loch Boisdale
National Grid Reference	NF82851646
View on Map	<a href="#">View on Map</a>

Data supplied by SEPA on 05/12/2010

Read more via "[Failing Fish Farms - 18% rated "poor" by SEPA in 2015](#)"

In 2006, [The Sunday Herald reported](#) on "Scotland's 'dirty dozen'" ecologically risky companies - with Marine Harvest's processing plant in Fort William topping the list (i.e. the worst of the worst).



The Tullis Russell paper mill in Glenrothes faced legal action to curb emissions in 2005

POLLUTION: ANNUAL ASSESSMENT

# Environment protection agency reveals Scotland's 'dirty dozen'

Repeat offenders and multinationals top Sepa's list of ecologically risky companies

By Rob Edwards  
Environment Editor

**T**WELVE industrial companies working across Scotland have been named by the Scottish Environment Protection Agency (Sepa) for failing to curb pollution risks. The "dirty dozen" include some of the country's biggest firms and several repeat offenders. Many have breached pollution permits and several are facing legal action to force them to improve. Most of the companies accepted they made mistakes, but one launched a fierce counter-attack, accusing Sepa of being "heavy-handed" and "unprofessional". Last week Sepa released its Operator Performance Assessment for 2005, covering about 200 industrial sites. The performance of 12 operators at 13 sites was judged "unsatisfactory" because of persistent failures to control pollution. The lowest-ranked company was fish farming multinational Marine Harvest, which also failed Sepa's assessment the previous year. The company's Blar Athol plant in Fort William has been served an enforcement notice for breaching eight conditions of its pollution permit, including a "no odour management plan". Fish farming campaigners called on the company to clean up its act. "By discharging fish guts, blood, scum and grease into the River Lochy, Marine Harvest has jeopardised not only the health of wild salmon but also the already tarnished reputation of Scottish farmed salmon," said Don Stanford of the Pure Salmon Campaign. Marine Harvest was "disappointed" by Sepa's rating. "We are working hard to improve results and, as part of that, structural changes were agreed and communicated to Sepa during 2005," said the company's environmental manager, Ben Hatfield. Chipboard manufacturer Norbord was the only company to have two sites labelled as unsatisfactory: its plant at Cowie near Strirling, breached excess pollution into the air after abatement equipment was damaged by a fire, while a plant near Nairn twice leaked water after equipment breakdowns.

The multinational accepted that both plants had experienced problems, but the company's environmental director, Stephen Rossback, said £2.7 million was being invested in new equipment to solve these problems. "We're a very ethical company," he insisted. Scottish Power's sewage sludge plant at Daldovie in Glasgow is the only site to be assessed as a failure by Sepa for three years running. It was served an enforcement notice in December 2004 to try to combat bad smells. Scottish Power said that plant modifications since then had greatly reduced public complaints, and claimed that Sepa's verdict was the result of a "technicality". Managers of the Alcan aluminium smelter near Fort William accepted it had breached its pollution permit, but said this was due to an "administrative error". Grievie Groundworks, which runs the Mains of Taymouth landfill site near Aberfeldy, admitted that returns had not been filed under previous management, and another landfill site at Skares in Carnock was deemed unsatisfactory because it had five fires burning in the waste. But the operator, Barr, said they had been put out "months ago". By far the angriest response to Sepa's assessments came from the Tullis Russell paper mill at Markinch in Fife, served an enforcement notice after complaints about pollution were said to be "substantiated". The mill's managing director, Chris Parr, said he was "outraged" by Sepa's "harsh and absolutely unnecessary misrepresentation". He admitted deposits of dust might have sometimes been a "nuisance", but claimed they didn't all come from the mill. A coal boiler had also been operated "over the permitted hours", he said. But Parr went on to accuse Sepa of a "heavy-handed and inappropriate, unprofessional approach", and added: "Highly misleading and damaging publicity such as this does not serve to influence environmental performance." This was disputed by Friends of the Earth Scotland, which pointed out that most companies named previously by Sepa had improved their performance. "It's good to see that many of the worst sites have responded positively to the glare of publicity," said the group's chief executive, Duncan McLaren. But he added: "Scotland needs a regulatory system in which persistent failures face swift, strong deterrents, including loss of operating licences and stiff fines." Other companies assessed as failures did not respond to enquiries, and an intensive pig farm at Lower Inchdrewer Farm in Banff could not be contacted. "It is important that we work with companies whose performance is less than satisfactory and identify how the sites can be improved," said Sepa's Audrey Terry. "However, Sepa will not shy away from taking enforcement action in relation to sites which consistently fail to meet Sepa's standards."

**NEED TO KNOW MORE?**  
The FACTS: Sepa has assessed 12 companies of poor pollution management.  
**BACKGROUND**  
Sepa assesses the performance of about 200 industrial sites every year, and ranks them according to pollution control.  
**NEED TO KNOW MORE?**  
[www.sepa.org.uk/ops](#) Sepa assessments.  
[www.puresalmon.org](#) Pure Salmon Campaign.  
[www.fish-scotland.org.uk](#) Friends of the Earth Scotland.  
[www.norbord.com](#) Norbord Inc.  
[www.marine-harvest.com](#) Marine Harvest.  
[www.tullis-russell.co.uk](#) Tullis Russell.  
[www.alcan.com](#) Alcan Inc.  
[www.dalmeida.co.uk](#) Total Waste Management Alliance.  
[www.sigcarbon.com](#) SIG Carbon.  
[www.blstock.com](#) Blstock, Inc.  
[www.barr.co.uk](#) Barr International.  
[www.chipboardgroup.co.uk](#) Chipboard Group Groundworks.

COMPANY	PROBLEMS	SEPA SCORE
Marine Harvest fish processing plant Fort William	Eight breaches of pollution permit	12
Norbord chipboard plant Cowie, Strirling	Increased pollution after equipment failure	14
Dales dry dock Aberdeen	Unauthorised discharges	14
Scottish Power sewage sludge plant Daldovie, Glasgow	Legal action to curb emissions	16
Blstock brick works Edinburgh	Breaching pollution limits	16
Pig finishing unit Lower Inchdrewer Farm, Banff	Legal action to curb smell	16
Norbord board plant Mains	Discharges after equipment failure	17
Total Waste Management Alliance Fortrose	Inadequate maintenance	18
Alcan aluminium smelter Fort William	Breaches of pollution permits	18
Tullis Russell paper mill Glenrothes	Legal action to curb emissions	18
Grievie Groundwork landfill Mains of Taymouth, Aberfeldy	Failure to submit waste returns	18
Slaw Gairloch landfill Slaw, Coveck	Firm burning made waste	21
SIG carbon fibre plant Mill of Gult, Ross-shire	Breaches of pollution permit	24

[Compliance data for 2016](#) was requested via FOI from SEPA in February 2018 but has still not been fully replied to - preliminary data from SEPA indicates that Marine Harvest was responsible for 9 out of the 51 fish farms assessed as "Very Poor", "Poor" or "At Risk" in 2016:

	AUTHORISATION_NUMBER	Operator	LOCATION DESCRIPTION
1	CAR/L/1000810	MARINE HARVEST (SCOTLAND) LIMITED	Port Na Cro MCFF, Shuna Sound
2	CAR/L/1001816	MARINE HARVEST (SCOTLAND) LIMITED	Creag an Sagairt MCFF, Loch Hourn, Kyle
3	CAR/L/1095612	MARINE HARVEST (SCOTLAND) LIMITED	Hellisay, Sound of Hellisay, Isle of Barra
4	CAR/L/1105276	MARINE HARVEST (SCOTLAND) LIMITED	Creag an Sagairt (West), Arnisdale, Glenelg
5	CAR/L/1129789	MARINE HARVEST (SCOTLAND) LIMITED	North Shore East MCFF, Loch Erisort
6	CAR/L/1009162	MARINE HARVEST (SCOTLAND) LTD	Invasion Bay MCFF, Loch Sunart
7	CAR/L/1009962	MARINE HARVEST (SCOTLAND) LTD	Callert MCFF, Loch Leven
8	CAR/L/1010433	MARINE HARVEST (SCOTLAND) LTD	Letterfearn MCFF, Loch Duich
9	CAR/L/1011922	MARINE HARVEST (SCOTLAND) LTD	Groatay MCFF, Cheese Bay, Isle of North Uist

Read more via:

["Major sites rated 'poor' on environment protection"](#) (BBC News, 15 February 2018)

### **Pollution Breaches:**

The Global Alliance Against Industrial Aquaculture [reported in February 2017](#):

The data shows over 130 breaches of SEPA's Environmental Quality Standards for the toxic chemicals Emamectin benzoate and Teflubenzuron since 2001 [1]. The worst contamination (measured in terms of a breach of the EQS) was [Marine Harvest's salmon farm in Loch Shell](#), Harris, which breached the EQS for Teflubenzuron by a staggering 527 times in January 2012 and Loch Duart's Badcall salmon farm in Eddrachillis Bay, Highland, which breached the EQS for Teflubenzuron by a staggering 500 times in December 2012.

In terms of breaches of the EQS for Emamectin benzoate the worst salmon farm was Spelve A (Balure) operated by Scottish Sea Farms on the Isle of Mull which breached the EQS by 15 times in June 2016. Marine Harvest's salmon farm at Duich in Loch Duich (a [Special Area of Conservation](#)) breached the EQS by 8 times in February 2016.

Breaches of EQS for Chemicals in Sediments					
Submitted By	Active Ingredient	Sample Date	Site Name	Receiving Water	Local Authority
Loch Duart Ltd	Teflubenzuron	07-Dec-12	Badcall Site 11 (Eilean Riabh)	Eddrachillis Bay	Highland
Scottish Sea Farms Ltd	Teflubenzuron	11-Jun-13	Teisti Geo	Clift Sound	Shetland Islands
Wester Ross Fisheries Ltd	Teflubenzuron	06-Apr-11	Ardmair (Isle Martin)	Loch Broom	Highland
Marine Harvest (Scotland)	Teflubenzuron	10-Jan-12	Mid Loch Shell / Pairc - West	Loch Shell	Eilean Siar
Scottish Sea Farms Ltd	Teflubenzuron	11-Jun-13	Holms Geo (Site 3)	Clift Sound	Shetland Islands
Loch Duart Ltd	Teflubenzuron	04-Dec-12	Drumbeg (Loch Dhrombaig)	Eddrachillis Bay	Highland
Scottish Sea Farms Ltd	Teflubenzuron	22-Jan-13	Slocka (Site C)	Ronas Voe	Shetland Islands
Wester Ross Fisheries Ltd	Teflubenzuron	13-Mar-13	Ardmair (Isle Martin)	Loch Broom	Highland
Loch Duart Ltd	Teflubenzuron	04-Dec-12	Droighniche	Eddrachillis Bay	Highland
Scottish Sea Farms Ltd	Teflubenzuron	18-Oct-13	Loura Voe (Site 3)	Dury Voe	Shetland Islands
Wester Ross Fisheries Ltd	Teflubenzuron	13-Mar-13	Ardmair (Isle Martin)	Loch Broom	Highland
Loch Duart Ltd	Teflubenzuron	31-Dec-12	Calbha Site 5 (Calbha Beag)	Eddrachillis Bay	Highland
The Scottish Salmon Comp	Teflubenzuron	15-Jan-14	Tuath (Rubha na Gall)	Loch Tuath	Argyll and Bute
Scottish Sea Farms Ltd	Emamectin Benzi	24-Feb-09	Spelve B (Dalnaha)	Loch Spelve	Argyll and Bute
Scottish Sea Farms Ltd	Emamectin Benzi	30-Jun-16	Spelve A (Balure)	Loch Spelve	Argyll and Bute
Scottish Sea Farms Ltd	Emamectin Benzi	24-Jul-07	Achintraid (Kishorn Site 1)	Loch Kishorn	Highland
Marine Harvest (Scotland)	Emamectin Benzi	03-Feb-16	Duich	Loch Duich	Highland
Marine Harvest (Scotland)	Emamectin Benzi	21-Apr-08	Portnalong	Loch Bracadale	Highland
Lighthouse Caledonia Ltd	Emamectin Benzi	14-Oct-08	St Molios	Lamlash Bay	North Ayrshire
Marine Harvest (Scotland)	Emamectin Benzi	08-May-12	Duich	Loch Duich	Highland
Marine Harvest (Scotland)	Emamectin Benzi	21-Mar-07	Gorsten	Loch Linnhe	Highland
Marine Harvest (Scotland)	Emamectin Benzi	18-Nov-14	Duich	Loch Duich	Highland

Data on non-compliances of chemical residues in sediment under salmon farms included:

## 2015:

### Marine Harvest:

CAR/L/1028518	Marulaig Bay MCFE, Loch Boisdale, South Uist
Marulaig Bay marine cage fish farm is Poor for 2015 due to a cage edge Emamectin Benzoate residue failure and a breach in the stocking density licence condition. SEPA is working with the operator to improve licence compliance and reduce the environmental impact from the farm.	

CAR/L/1004080	Scotasay MCFE, East Loch Tarbert
Scotasay marine cage fish farm is Poor for 2015 due to repeated exceedence of the licenced azamethisphos discharge limit. The situation arose from an administrative error which has now been resolved.	

## 2014:

### Marine Harvest:

CAR/L/1009963	Seaforth MCFE, Loch Seaforth, Isle of Harris
---------------	--

The operator exceeded their permitted use of sea louse medicine Emamectin Benzoate (Slice). SEPA is working with the operator to prevent any future recurrence.

## 2013:

### Marine Harvest:

Camas Glas MCFE, Loch Sunart

Late reporting of monitoring data. Exceedence of sediment SLICE EQS.

## 2012:

### Marine Harvest:

CAR/L/1004218 | Mid Loch Shell East MCFE, Loch Shell

This site is poor due to an unsatisfactory benthic seabed survey and a far field exceedence was recorded in the slice residual survey.

Read more via "[Toxic Toilets: Salmon Farms Pollute Scotland's Lochs](#)"

Marine Harvest [polluted Loch Shell with the toxic pesticide Teflubenzuron](#) (subsequently banned by SEPA) up to 450 times higher than recommended levels:

## Fishing

# Fish company investigated after salmon farm pollutes Scottish loch

Marine Harvest, one of the largest fish-farming companies, is under investigation after polluting loch with pesticide

**Severin Carrell, Scotland correspondent**

Fri 10 May '13 12:08 BST



This article is 4 years old

<  
52



Caged Scottish Salmon. Photograph: Alamy

Marine Harvest, one of the world's largest fish-farming companies, is under investigation after its salmon farms polluted a Scottish loch with toxic pesticide residues hundreds of times above environmental limits.

Sampling tests around salmon cages on Loch Shell in the Outer Hebrides by the Scottish Environment Protection Agency (Sepa) found that levels of [Teflubenzuron](#), used to kill sea lice parasites which affect hundreds of thousands of caged fish each year, were up to 450 times higher than recommended levels.

“Pesticides killed my business” reported [The Sunday Herald](#) in 2011 following reports by SEPA of chemical contamination near salmon farms: "I'm convinced that the prawns were killed by the chemicals used by fish farmers to treat sea lice," said creel fisherman Donald Macleod. "There's hardly any prawns to be found in Loch Shell any more unless you go some distance from the salmon cages, he claims," continued The Sunday Herald. "And prawns aren't that different from the sea lice that the chemicals are designed to kill."

20.11.11



### 'These chemicals destroyed my business'

**D**ONALD Macleod knew he had a problem when he found dead prawns in the creels he used to catch live shellfish. Since then, his 20-year-old fishing business has collapsed and he has sold his boat. Two months ago, he left his native Isle of Lewis to try to make a new life in Wales.

Macleod, 43, used to fish prawns in Loch Shell on Lewis. But in 2009 he noticed that they were starting to die, and began asking questions.

Scientists from the Scottish Environment Protection Agency came to investigate, and detected traces of two fish-farming pesticides in the loch sediments. At Macleod's suggestion, they also took away some dead prawns to analyse.

Unfortunately, Sepa's Stornoway office was unable to analyse them, and it appears that they were thrown away.

"The worst thing is not knowing for sure, not being able to prove anything," Macleod says. "But I'm convinced that the prawns were killed by the chemicals used by fish farmers to treat sea lice."

There are hardly any prawns in Loch Shell now unless you go some distance from the salmon cages, he claims. Prawns are not that different from the sea lice that the chemicals are designed to kill.

"It has become obvious that fish farmers can do almost anything they want and no-one has the ability to deal with the mess they can create," Macleod says.

Read more via ["Revealed: the toxic pesticides that pollute our lochs"](#)

Read more via ["Fish company investigated after salmon farm pollutes Scottish loch"](#); ["Revealed: the dirty dozen salmon farms that contaminate lochs with pesticides"](#) and ["Revealed: the toxic pesticides that pollute our lochs"](#) and ["The drug that's meant to save Salmon but is killing the creatures on the Ocean floor"](#)

In 2005, [Marine Harvest](#) was fined £4,000 for polluting the River Lochy with fish viscera, blood and congealed fats deposits, scum and grease:



Marine Harvest pollution in the River Lochy for which it was fined £ 4,000.

**Marine Harvest Scotland (27th July 2005)** - cause or knowingly permit poisonous, noxious or polluting matter or any solid waste matter namely fish viscera, blood and congealed fat deposits, scum & grease to the River Lochy contra s30F(1) CoPA 1974. Fined £4,000.

Read more via "[Scottish Farmed Salmon Exposed](#)"

Marine Harvest is certainly no stranger to breaching pollution limits:

## Water Pollution Prosecutions in Scotland, 2005 to 2007

Source: SEPA

- **Marine Harvest Scotland (12th Dec 2007)** - combination of breaching their water use licence, an unauthorised discharge of effluent to a river, depositing sludge on land and burning waste. Fined £25,000.
- **Lakeland Marine Farm (27th April 2006)** - cause or knowingly permit a trade effluent namely effluent containing **uneaten fish food and fish faeces** to be discharged to controlled waters by way of the nets of said fish farm cages...Fined £1,000.
- **Kames Fish Farming (12th Jan 2006)** - **poisonous/noxious/polluting matter** - fish faeces & uneaten fish feed, to Loch Lochy, by way of nets of fish farm cages...Fined £8,000.
- **Marine Harvest Scotland (27th July 2005)** - cause or knowingly permit **poisonous, noxious or polluting matter** or any solid waste matter namely fish viscera, blood and congealed fat deposits, scum & grease to the River Lochy...Fined £4,000.

# Stornoway Gazette

## Marine Harvest fine

Published: 13:36

Wednesday 12 December 2007



**FISH farm company Marine Harvest pled guilty at Stornoway Sheriff Court today (Wednesday) to five counts, including failure to comply with water use licence; depositing controlled waste, depositing controlled waste by way of burning, knowingly causing controlled waste and activity likely to cause pollution of the water environment at their Amhuinnsuidhe Hatchery, Harris.**

The company were fined a total of 23,500.

SEPA [reported](#) in their 'Court Report':

## Court report December 2007 to February 2008

One of the world's largest fish farming companies was fined a total of £23,500 at Stornoway Sheriff Court on 12 December 2007 for breaches of both water and waste legislation. Marine Harvest Scotland Ltd pled guilty to five charges, which included breaching water user licence conditions, the unauthorised discharge of untreated effluent to the Abhainn Mhor river and the burning of plastic waste feed bags. The offences, which all took place at the Amhuinnsuidhe Hatchery site on the Isle of Harris, were reported to the Procurator Fiscal by SEPA.

In 2007, Marine Harvest was exposed as overproducing at one of their sites on the Isle of Arran. Investigative journalist Nick Underdown reported for [The Arran Voice](#):

### **Marine Harvest's St Molio's fish farm: the figures**

January 2007

- used 100,800.00 grams of SLICE (active ingredient is Emamectin benzoate)
- 1,628 kg of mortalities

February 2007

- exceeded SEPA's biomass limit (i.e. breached its discharge consent) by 6.95%
- used 119,700.0037 grams of SLICE (active ingredient is Emamectin benzoate)
- 634 kg of mortalities

March 2007

- exceeded SEPA's biomass limit (i.e. breached its discharge consent) by 14.56%
- 1,455 kg of mortalities

April 2007

- exceeded SEPA's biomass limit (i.e. breached its discharge consent) by 20.72%
- 733 kg of mortalities

May 2007

- exceeded SEPA's biomass limit (i.e. breached its discharge consent) by 10.37%
- 962 kg of mortalities

June 2007

- exceeded SEPA's biomass limit (i.e. breached its discharge consent) by 10.90%
- 589 kg of mortalities

[Source: Obtained under the Freedom of Information Act from SEPA]



In 2006 the Sunday Herald named Marine Harvest as “[the worst pollution manager in Scotland](#)” after being put on formal notice by SEPA to clean up pollution from their processing plant in Fort William. An ‘Enforcement Notice’ ordered Marine Harvest to address a range of problems or face further fines and even imprisonment for Marine Harvest staff.

## Marine Harvest *The Worst Pollution Manager in Scotland in 2005*

<b>SCOTLAND'S WORST POLLUTION MANAGERS</b>		
COMPANY	PROBLEMS	SEPA SCORE (lower = worse)
<b>Marine Harvest fish processing plant</b> Fort William	Eight breaches of pollution permit	12
<b>Norbord chipboard plant</b> Cowie, Stirling	Increased pollution after equipment failure	14
<b>Dales dry dock</b> Aberdeen	Unauthorised discharges	14
<b>Scottish Power sewage sludge plant</b> Daldowie, Glasgow	Legal action to curb emissions	16
<b>Ibstock brick works</b> Uddingston	Breaching pollution limits	16
<b>Pig finishing unit</b> Lower Inchdrewer Farm, Banff	Legal action to curb smelt	16
<b>Norbord board plant</b> Nairn	Discharges after equipment failure	17
<b>Total Waste Management Alliance</b> Peterhead	Inadequate maintenance	18
<b>Alcan aluminium smelter</b> Fort William	Breaches of pollution permits	18
<b>Tullis Russell paper mill</b> Glenrothes	Legal action to curb emissions	18
<b>Grieve Groundwork landfill</b> Mains of Taymouth, Aberfeldy	Failure to submit waste returns	18
<b>Barr Carlaff landfill</b> Skars, Cumnock	Fires burning inside waste	21
<b>SCL carbon fibre plant</b> Muir of Ord, Ross-shire	Breaches of pollution permit	24

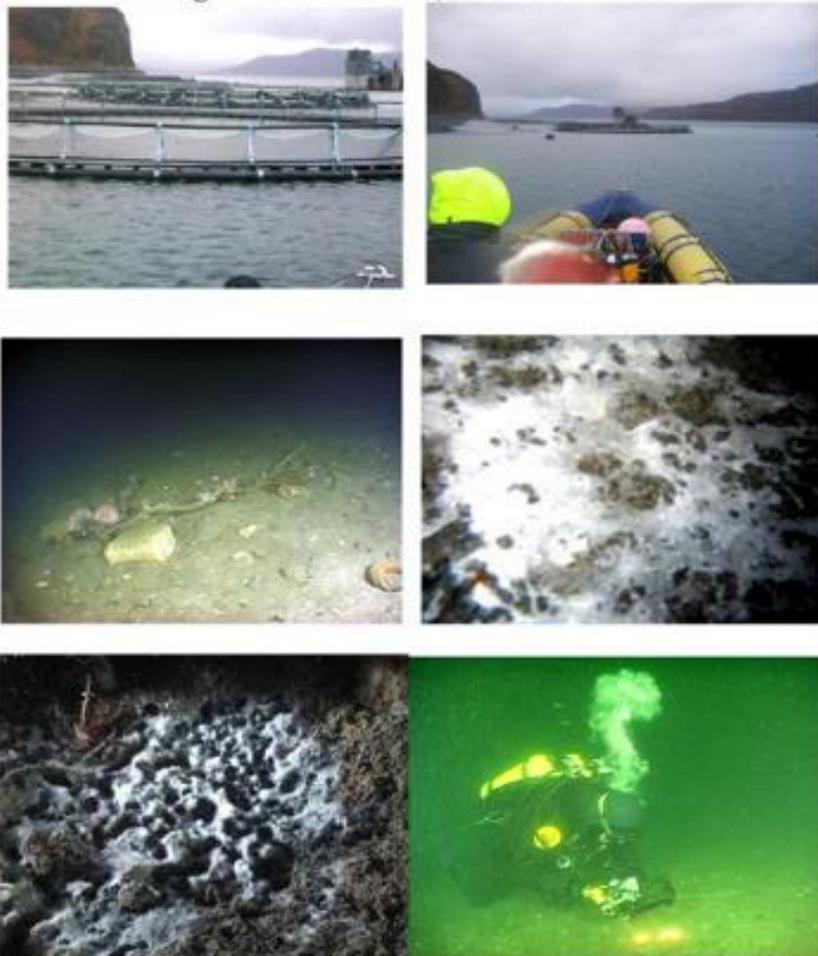
source: [www.sepa.org.uk/opa](http://www.sepa.org.uk/opa)

Source: 28 May 2006. Environment protection agency reveals Scotland 'dirty dozen'. *Sunday Herald*. Available at: [http://www.robedwards.com/2006/05/environment\\_pro.html](http://www.robedwards.com/2006/05/environment_pro.html)

In 2005, safety fears were raised by [The Sunday Times](#) over the dumping by Marine Harvest of thousands of tonnes of diseased farmed salmon in the Western Isles. The fish were dumped following an outbreak of infectious pancreatic necrosis and a suspected outbreak of infectious salmon anaemia (ISA) on the island of South Uist. Susan Rothwell, whose home is less than half a mile from the Kyles Paible dump, told *The Sunday Times*: “The smell is indescribable. The stench of rotting fish day in, day out makes you feel ill. If you go anywhere near the place it is just covered by flies and seagulls. It is a clear health hazard and there is no way that it should be happening right next to the beach where kiddies play.”

In 2005, the [Salmon Farm Protest Group](#) accused Marine Harvest of “destroying surrounding marine life and failing to meet Scottish Environment Protection Agency environmental standards”. PR Week [reported](#): “The farm at Loch Hourn has come under fire from campaigners who say they have uncovered more evidence from divers that the bottom of the marine environment is barren and the farm should be shut down.”

**Dive at Marine Harvest salmon farm site, Loch Hourn,  
West Highlands of Scotland, 31st December 2004**



**Seabed under cages and in surrounding seabed area outwith SEPA  
'allowable zone' devoid of life, other than beggiatoa mat**

## Lice, Disease & Mortalities:

A FOI reply by the Scottish Parliament in April 2018 ([search for # 603922](#)) - includes:

**From:** Julie Edgar [REDACTED]  
**Sent:** 09 March 2018 12:24  
**To:** Goldsmith JM (Jenny)  
**Subject:** Committee Visit to Marine Harvest  
**Attachments:** GF Lice and mortality kgs 2018.xlsx

Dear Jenny

Good to talk to you just now. As per our conversation, Ben Hadfield, MD of Marine Harvest Scotland, would be happy to host a Committee visit and in principle this could be to any MH farm. Given the specific information that the Committee would like to explore he is suggesting Loch Duich and/or Greshomish – perhaps depending on the severity of the health challenges that exist on the chosen date. At the moment, the management issues at each site are as follows:

Loch Duich – Challenging site to manage sea lice, sealice infection and treatment ongoing, history of gill health challenges, fish around 3.5 Kg

Loch Greshomish – Complex gill health and severe anemia leading to mortality in February, but situation improving gradually.

Ben has also supplied sea lice and mortality data for all the MH farms in Scotland (attached). Mortality is in total kilos and it is important to remember that it is from a standing biomass in the sea of around 26,000 tonnes. The lice figures are provided as Gravid Female Lice.

Regarding dates, Ben would want to be involved in the Committee visit and can be available until he travels to Canada from the 24<sup>th</sup> April to the 1<sup>st</sup> May.

Look forward to hearing from you re possible dates etc.

Kind regards  
Julie

Julie Edgar  
Head of News and PR  
Scottish Salmon

Operation	Marine Scotland
Generation	All
Lice Type	Lep female gravid

Avg Lice Count	Year		Week										Grand Total		
	2018	2018w01	2018w02	2018w03	2018w04	2018w05	2018w06	2018w07	2018w08	2018w09	2018w10				
Area															
Ardintoul	0.84	0.04	0.04	0.01	0.09	0.09	0.06	0.07	0.08	0.03	0.03	0.22	0.13		
Ardnish	0.09	0.00	0.00	0.00	0.00	1.25						0.01	0.00		
Bagh Dall nan Cean	0.13	0.40	0.69	0.50	1.43	1.85						0.00	0.90		
Caol Mor								0.00	0.00	0.00	0.00	0.00	0.00		
Carradale	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00		
Cheese Bay	0.00	0.00	0.01	0.00	0.01	0.01	0.01	0.00	0.00	0.01	0.01	0.01	0.01		
Colonsay	0.34	0.45	0.30	0.28	0.72	0.64	0.64	0.63	0.63	0.97	0.97	0.56	0.56		
Dulich	0.64	0.54	0.78	1.54	1.81	0.07	0.17	0.25	0.24	0.19	0.19	0.55	0.55		
Gorsten	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Greshornish	0.08	0.48	0.29	0.23	0.70	0.56	0.60	0.74	1.00	1.00	1.01	0.96	0.96		
Harpport												0.00	0.00		
Invasion Bay	0.36	1.07	1.01	1.19	1.58	1.74	1.77	1.41	1.24	1.24	0.93	1.22	1.22		
Laga Bay	0.20	0.17	0.10	0.25	0.58	0.72	0.44	0.77	0.70	0.48	0.48	0.00	0.00		
Leven												0.00	0.00		
Linthe												0.00	0.00		
Loch Alsh		0.13	0.13	0.26	0.36	0.13	0.33	0.16	0.09	0.09	0.25	0.17	0.17		
Loch Boisdale	0.02	0.03	0.01	0.01	0.02	0.00	0.02	0.00	0.00	0.00	0.01	0.01	0.01		
Loch Erisort	1.27	1.74	4.38	1.77	1.48	1.17	1.67	1.57	2.20	1.57	2.20	0.01	0.01		
Loch Ewe	0.00	0.00	0.01	0.00	0.02	0.00	0.00	0.01	0.01	0.01	0.02	0.01	0.01		
Loch Hourn	1.02	0.51	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49		
Loch Shell	0.21	0.13	0.19	0.24	0.13	0.14	0.14	0.22	0.25	0.35	0.35	0.19	0.19		
Maclean's Nose	0.15	0.28	0.43	0.17	0.08	0.36	0.58	0.80	0.58	0.85	0.85	0.45	0.45		
Muck	1.85	1.78	1.68	1.43	1.43	1.27	1.35	0.70	1.59	1.59	1.59	0.36	0.36		
North Harris	0.67	0.68	0.72	0.18	0.18	0.14	0.38	0.43	0.37	0.35	0.35	0.36	0.36		
Poll na Gille	0.79	0.13	0.48	0.19	0.50	0.50	0.31	0.47	0.33	0.50	0.40	0.01	0.01		
Skipport	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.03	0.03	0.02	0.01	0.01		
South Harris	0.06	0.11	0.07	0.14	0.20	0.10	0.11	0.15	0.21	0.36	0.14	0.14	0.14		
South West Shuna	0.16	0.02	0.41	0.20	0.08	0.06	0.15	0.13	0.22	0.22	0.22	0.18	0.18		
Stuileigh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Torrision	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
WL Tarbert	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00		
Grand Total	0.30	0.34	0.33	0.35	0.41	0.28	0.24	0.25	0.22	0.20	0.20	0.30	0.30		

Operation	Marine Scotland
Generation	All

Mort Biomass (Kg)	Year		Week										Grand Total
	2018	2018w01	2018w02	2018w03	2018w04	2018w05	2018w06	2018w07	2018w08	2018w09	2018w10		
Area													
Ardintoul	9,907	9,972	12,195	1,732	2,405	2,776	3,871	2,258	3,138	1,464	49,720	242	242
Ardnish	211	25	7								17,819	4,848	4,848
Bagh Dall nan Cean	3,429	2,551	1,814	1,659	2,357	3,092	2,624	294	108	690	748	11,629	11,629
Caol Mor											3,317	20,294	20,294
Carradale	1,469	855	663	937	1,037	590	668	416	1,677	3,317	111	1,073	1,073
Cheese Bay	2,069	1,192	3,791	2,657	2,472	1,906	2,000	2,227	1,977	3,807	2,853	45,944	45,944
Colonsay	128	85	66	73	63	66	139	40	300	111	2,623	23	23
Dulich	1,919	5,134	3,899	2,060	2,430	17,822	3,601	2,419	3,807	2,853	15,994	6,592	173,979
Gorsten	7	5	25	14	14	16	17	1,096	1,405	23	2,986	8	8
Greshornish	12,533	11,785	38,952	15,132	13,264	16,963	21,441	21,323	15,994	6,592	299	78,902	78,902
Harpport											994	29,149	29,149
Hellisay	299										16	2,161	2,161
Invasion Bay	8,935	22,708	7,971	9,440	5,832	6,063	4,650	4,367	5,263	3,674	78,902	994	994
Laga Bay	3,099	3,485	3,187	3,502	2,655	3,100	2,533	3,316	3,278	994	29,149	16	16
Leven											55	1,404	1,404
Linthe											919	51	51
Loch Alsh		12,262	7,378	4,298	4,645	3,770	4,492	3,585	4,770	4,760	49,960	1,074	1,074
Loch Boisdale	112	61	94	129	203	115	169	135	56	527	34,035	183	183
Loch Erisort	4,936	3,947	4,408	3,326	3,746	3,337	4,708	4,160	940	527	5,676	4,130	4,130
Loch Ewe	188	457	722	1,107	832	789	551	243	605	183	10,948	25,898	25,898
Loch Hourn	1,438	1,152	1,168	372	1,095	2,522	1,072	700	426	218	11,417	926	926
Loch Shell	2,797	831	614	1,095	2,522	1,072	700	426	218	11,417	926	926	
Maclean's Nose	2,264	2,969	3,372	2,839	2,325	1,476	1,492	5,106	2,928	1,127	25,898	1,127	1,127
Muck	3,701	107	2,856	2,230	1,747	3,201	3,513	2,608	1,336	21,300	11,417	11,417	
North Harris	12,857	19,131	5,791	9,027	13,274	4,577	3,241	3,729	14,326	6,596	926	27,013	27,013
Poll na Gille	3,220	4,844	3,900	7,055	3,227	728	1,070	967	1,077	926	11,417	926	926
Skipport	291	630	716	596	770	962	887	1,568	4,043	955	11,417	926	926
South Harris	1,903	1,113	1,115	1,025	1,225	1,013	1,162	897	1,402	610	11,466	258	258
South West Shuna	1,847	3,202	1,478	2,315	5,114	1,692	2,004	1,902	2,118	258	21,931	258	258
Stuileigh	128	57	184	564	339	257	248	175	122	254	2,326	232	232
Torrision	90	125	159	181	246	416	396	395	462	232	2,702	92	92
WL Tarbert	75	46	156	70	103	132	116	166	216	92	1,172	92	92
Grand Total	79,853	108,730	106,681	73,434	74,744	79,332	70,587	65,937	73,383	36,590	769,272	769,272	769,272

Download as a PDF [online here](#)

Scottish Salmon Watch's [submission to the Scottish Parliament in March 2018](#) included:



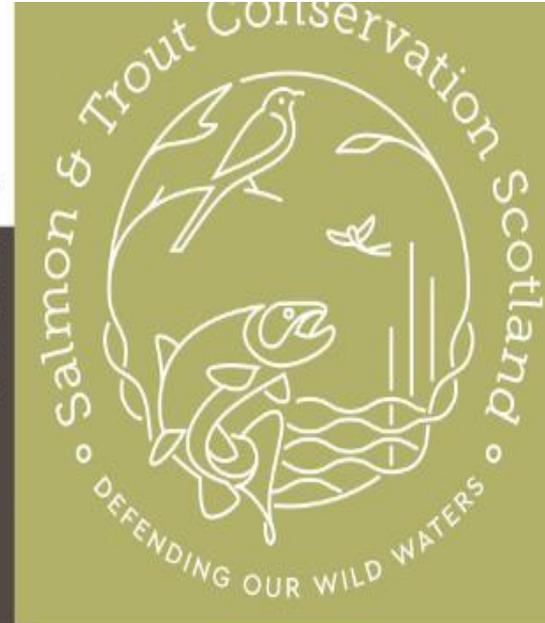
Thanks to Salmon & Trout Conservation's [repeated FOI requests](#) and [appeal victory via the Scottish Information Commissioner](#) site specific data on sea lice infestation on salmon farms is [now available](#) - with the following 61 salmon farms identified as breaching lice limits between November 2016 and December 2017.

# Sea Lice Breaching Farm List

#SalmonFarmReform

Scottish Government has trigger levels of 3 adult female sea lice per farmed salmon (at which point a "site-specific escalation plan" to reduce lice numbers is required) and 8 adult female lice per farmed salmon (at which point, enforcement action may be ordered to harvest early, reduce biomass or cull-out a farm).

Here is the full list of open net salmon farms that breached the 3 and/or 8 sea lice trigger levels, for differing periods, between November 2016 and December 2017



Aird	The Scottish Salmon Company	Loch Alsh	Marine Harvest (Scotland) Ltd
Ardcastle Bay	The Scottish Salmon Company	Loch Carnan	Loch Duart Ltd
Badcall Bay	Loch Duart Ltd	Loch Laxford	Loch Duart Ltd
Bagh Chlann Neill	The Scottish Salmon Company	Loch Odhairn	The Scottish Salmon Company
Bag Dail Nan Cean	Marine Harvest (Scotland) Ltd	Loura Voe	Scottish Sea Farms Ltd
Bastaness	Cooke Aquaculture Scotland Ltd	Maol Ban	Marine Harvest (Scotland) Ltd
Cairidh	Marine Harvest (Scotland) Ltd	Maragay Mor	The Scottish Salmon Company
Camas Glas	Marine Harvest (Scotland) Ltd	Meall Mhor Loch Fyne	The Scottish Salmon Company
Caolas A Deas	Marine Harvest (Scotland) Ltd	Nevis B	Scottish Sea Farms Ltd
Clashnessie Bay	Loch Duart Ltd	North Havra	Grieg Seafood Shetland Ltd
Cloudin	Cooke Aquaculture Scotland Ltd	North Papa	Grieg Seafood Shetland Ltd
Cole Deep	Grieg Seafood Shetland Ltd	North Shore	Marine Harvest (Scotland) Ltd
Corlarach	Grieg Seafood Shetland Ltd	North Uiskevagh	The Scottish Salmon Company
Djubawick	Cooke Aquaculture Scotland Ltd	Ornish Island	Marine Harvest (Scotland) Ltd
Dury Voe	Scottish Sea Farms Ltd	Plocrapol	The Scottish Salmon Company
East of Papa Little	Grieg Seafood Shetland Ltd	Port Na Cro	Marine Harvest (Scotland) Ltd

East Tarbert Bay	The Scottish Salmon Company	Port Na Gille	Marine Harvest (Scotland) Ltd
Eilean Grianain	Marine Harvest (Scotland) Ltd	Quarry Point	The Scottish Salmon Company
Etive 4	Dawnfresh Farming Ltd	Reibinish	The Scottish Salmon Company
Foreholm	Scottish Sea Farms Ltd	Scadabay	The Scottish Salmon Company
Furnace Quarry	The Scottish Salmon Company	Score Holms	Grieg Seafood Shetland Ltd
Geasgill	The Scottish Salmon Company	Sgeir Dughall	The Scottish Salmon Company
Gob a Bharra Loch Fyne	The Scottish Salmon Company	Shuna Castle	Kames Fish Farming Ltd
Gob na Hoe	Grieg Seafood Shetland Ltd	Shuna SW (Rubh'an Trilleachain)	Kames Fish Farming Ltd
Gometra	The Scottish Salmon Company	Sian Bay	Scottish Sea Farms Ltd
Greanamul	The Scottish Salmon Company	Snaranness	Scottish Sea Farms Ltd
Groatay	Marine Harvest (Scotland) Ltd	Soay	Marine Harvest (Scotland) Ltd
Hellisay	Marine Harvest (Scotland) Ltd	South Sound	Scottish Sea Farms Ltd
Holms Geo	Scottish Sea Farms Ltd	Spoose Holm	Grieg Seafood Shetland Ltd
Invasion Bay	Marine Harvest (Scotland) Ltd	Strome	The Scottish Salmon Company
Kempie Bay	Scottish Sea Farms Ltd	Strondoir Bay	The Scottish Salmon Company
Kenmore Loch Torridon	The Scottish Salmon Company	Stulaigh	Marine Harvest (Scotland) Ltd
Kilerivagh / Petersport	The Scottish Salmon Company	Tabhaigh	Marine Harvest (Scotland) Ltd
Kingairloch	Marine Harvest (Scotland) Ltd	Teisti Geo	Scottish Sea Farms Ltd
Kishorn A	Scottish Sea Farms Ltd	Turness	Cooke Aquaculture Scotland Ltd
Kishorn B (North)	Scottish Sea Farms Ltd	Uyea Isle	Cooke Aquaculture Scotland Ltd
Kishorn West	Scottish Sea Farms Ltd	Vee Taing	Grieg Seafood Shetland Ltd
Langa Isle (East)	Grieg Seafood Shetland Ltd	West of Burwick	Grieg Seafood Shetland Ltd
Leinish	Grieg Seafood Shetland Ltd	Wick of Belmont	Cooke Aquaculture Scotland Ltd
Linnhe	Marine Harvest (Scotland) Ltd		

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Read more via:

["Scottish salmon sold by a range of supermarkets in the UK has sea lice up to 20 times acceptable limit - Tesco, Sainsbury's and Co-op are among those who have stocked salmon from the worst affected farms"](#)

["Supermarket salmon riddled with sea lice - Ministers tried to bury figures showing a pest that can spread to and kill fish in the wild is rife in Scottish farms"](#)

["Scottish salmon farming's 'liciest' farms named and shamed"](#)

["Scottish Ministers ordered to disclose names of Scotland's 'liciest' salmon farms to Salmon & Trout Conservation Scotland"](#)

A [FOI reply by the Scottish Government in January 2018](#) also provided sea lice data:



[foi-17-02983 - Copy of Sea lice counts.xlsx](#)

XLSX | 123.9kB

[Download](#)



[foi-17-02983 - warning letter - Sea Lice Management and reporting.pdf](#)

2 page PDF | 126.4kB

[Download](#)



[foi-17-02983 - MS letter CD and EOPL action plan.pdf](#)

1 page PDF | 29.2kB

[Download](#)

The [FOI data disclosed by the Scottish Government](#) included:

				Week 42	Week 42	Week 42	Week 43
				1.0			1.0
Site Name	Business Name	Business No	CoGP MA	Count	Treatment	FHI Action	Count
Loch Odhairn	The Scottish Salmon Company	FB0169	W-4	2.6			3.62
Strome	The Scottish Salmon Company	FB0169	M-20	7.88			9.62
North Uiskevagh	The Scottish Salmon Company	FB0169	W-15				>3<8
Greanamul	The Scottish Salmon Company	FB0169	W-15	no count			3.85
Gometra	The Scottish Salmon Company	FB0169	M-37				
Kishorn B (North)	Scottish Sea Farms Ltd	FB0125	M-19	6	MECHANICAL		no count
Kishorn West	Scottish Sea Farms Ltd	FB0125	M-19	5.9	MECHANICAL		no count
Loch Alsh (Sron)	Marine Harvest (Scotland) Ltd	FB0119	M-21	4.48			9.49
Invasion Bay	Marine Harvest (Scotland) Ltd	FB0119	M-34	3.93			5.34
Poll Na Gille	Marine Harvest (Scotland) Ltd	FB0119	M-40	3.59			7.45
Bagh Dail Nan Cean	Marine Harvest (Scotland) Ltd	FB0119	M-40	7.52			3.43
Port Na Cro	Marine Harvest (Scotland) Ltd	FB0119	M-40	7.5			EoC
North Shore	Marine Harvest (Scotland) Ltd	FB0119	W-3	3.56			<3
Caolas A Deas	Marine Harvest (Scotland) Ltd	FB0119	W-5	5.53	BATH		<3
Tabhaigh	Marine Harvest (Scotland) Ltd	FB0119	W-3	7.5			<3

A [FOI reply](#) by the Scottish Government in March 2018 also detailed:

Site No	Site Name	Business Name	Business No	CoGP MA
FS0242	Loch Odhairn	The Scottish Salmon Company	FB0169	W-4
FS0570	Strome	The Scottish Salmon Company	FB0169	M-20
FS1267	Gometra	The Scottish Salmon Company	FB0169	M-37
FS1118	Trilleachan Mor	The Scottish Salmon Company	FB0169	W-6
FS0593	Inch Kenneth	The Scottish Salmon Company	FB0169	M-37
FS0016	Loch Alsh (Sron)	Marine Harvest (Scotland) Ltd	FB0119	M-21
FS0805	Bagh Dail Nan Cean	Marine Harvest (Scotland) Ltd	FB0119	M-40
FS1033	North Shore	Marine Harvest (Scotland) Ltd	FB0119	W-3
FS0413	Camas Glas	Marine Harvest (Scotland) Ltd	FB0119	M-34
FS1290	Shuna SW (Rubh'an Trilleachain)	Kames Fish Farming Ltd	FB0134	M-40
FS0489	Cole Deep	Grieg Seafood Shetland Ltd	FB0440	S-8b
FS1278	East of Papa Little	Grieg Seafood Shetland Ltd	FB0440	S-8b
FS0451	Turness	Cooke Aquaculture Scotland Ltd	FB0095	S-2

Week 47	Week 47	Week 47	Week 48
1.0			1.0
Count	Treatment	FHI Action	Count
4.86			
2.82			12.62
4.56			4.29
9.48			7.68
			3.34
5.41			3.39
7.5	Harvesting		10.37
3.47	Bath		4.1
			4.2

Download Excel spreadsheet [online here](#)



In February 2018, the Global Alliance Against Industrial Aquaculture [published](#) site specific disease data for 2017 sites operated by Scotland's three largest salmon farming companies (Marine Harvest, Scottish Sea Farms & the Scottish Salmon Company) via FOI replies from the Scottish Government - [read online here](#).

The following reasons for mortalities were [reported](#) during 2017: Salmon Gill poxvirus, Paranucleospora theridion, gill pathology, complex gill issues, Vibrio anguillarum,

Proliferative Gill Disease, Amoebic Gill Disease, Pancreas Disease, fungus, cardiomyopathy syndrome, Haemorrhagic smolt syndrome, HSMI, Enteric redmouth disease, anaemia and deaths due to the Hydrolicer, Thermolicer, hydrogen peroxide treatment, Salmosan treatment, freshwater post treatment, physical damage, plankton, water quality issues, algal bloom, seal predation and jellyfish.

In summary:

[Marine Harvest mort events in 2017](#) - The Excel spreadsheet details 572,488 mortalities in 56 separate reports/incidents during 2017 - including:

24 reported as CMS

22 reported as Gill Diseases (Gill Pathology, AGD, PGD, gill issues and complex gill issues)

18 reported as Treatment

13 reported as Anaemia

4 reported as PD

The top twenty mortality events [reported by Marine Harvest in 2017](#) (up to November) were:

Site Name	Start date	End date	Size of fish	Average weight of affected population	Mortality rate recorded (%)	If explained, select reason(s)	If unexplained, select observations:	Total mortality during event (if applicable)	Additional information (e.g. action taken)
Ardintoul	23/10/2017	29/10/2017	≥750g	2Kg	5.63	CMS, Complex gill issues	General Anaemia	51592	Observed a decrease in appetite prior to increase in mortality levels. Combination of factors - fish have tested positive to CMS, PRV and complex gill issues. Cause recorded as anaemia by company
Soay	09/10/2017	15/10/2017	<750g	0.4Kg	5.7	Treatment		31705	Disease samples taken, but all negative. Oxygen saturation issue on wellboat during freshwater treatment
Port Na Cro	30/10/2017	05/11/2017	≥750g	4kg	29.66	Complex gill issues, Gill issues, Anemia		24400	Site harvested out 6/11/17
MacLean's Nose	27/02/2017	05/03/2017	≥750g	1128.6g	3.86	CMS		22774	Monitoring situation closely. Health personnel on site frequently.
Ardintoul	30/10/2017	05/11/2017	≥750g	2Kg	2.58	CMS, Complex gill issues	General Anaemia	22330	Observed a decrease in appetite prior to increase in mortality levels. Combination of factors - fish have tested positive to CMS, PRV and complex gill issues. Cause recorded as anaemia by company
MacLean's Nose	06/03/2017	12/03/2017	≥750g	1199.1g	2.7	CMS		21460	Monitoring situation closely. Health personnel on site frequently.
MacLean's Nose	20/02/2017	26/02/2017	≥750g	1059.9g	3.4	CMS		20801	Monitoring situation closely. Health personnel on site frequently.
MacLean's Nose	13/03/2017	19/03/2017	≥750g	1255.1g	2.7	CMS		20249	Monitoring situation closely. Health personnel on site frequently.
Poll Na Gille Creag an TSagairt (Loch	23/10/2017	29/10/2017	≥750g	3.3kg	3.2	Complex gill issues, Gill issues,		20053	Harvesting worst affected cages.
	26/06/2017	02/07/2017	≥750g	2.75Kg	2.31	Treatment		19633	Salmosan treatment
MacLean's Nose	22/03/2017	26/03/2017	≥750g	1323.9g	2.61	CMS		19056	Monitoring situation closely. Health personnel on site frequently.
MacLean's Nose	13/02/2017	19/02/2017	≥750g	992.7g	2.97	CMS		18740	Monitoring situation closely. Health personnel on site frequently.
Port Na Cro	23/10/2017	29/10/2017	≥750g	4kg	8.15	Complex gill issues, Gill issues, Anemia		17651	Site harvested out 6/11/17
MacLean's Nose	06/02/2017	12/02/2017	≥750g	922.0g	2.69	CMS		17428	Monitoring situation closely. Health personnel on site frequently.

Poll Na Gille	16/10/2017	22/10/2017	≥750g	3.3kg	2.6	Complex gill issues, Gill issues, Anemia		15861	Harvesting worst affected cages.
MacLean's Nose	27/03/2017	02/04/2017	≥750g	1393.7g	2.07	CMS		14719	Monitoring situation closely. Health personnel on site frequently.
Poll Na Gille	30/10/2017	05/11/2017	≥750g	3.3kg	2.7	Complex gill issues, Gill issues, Anemia		13830	Harvesting worst affected cages.
Loch Alsh (Sron)	23/10/2017	29/10/2017	≥750g	3.6 kg	2.44	CMS, Handling (harvest and treatment - salmosan)		12680	Site has begun harvesting, company vet monitoring mortality levels. Salmosan treatment conducted, increase in mortality due to backlog of mort removal during previous week due to logistics issues.
Ardintoul Creag an T'Sagairt (Loch Hourn)	13/11/2017	19/11/2017	≥750g	2Kg	1.5	CMS, Complex gill issues	General Anaemia	12502	Observed a decrease in appetite prior to increase in mortality levels. Combination of factors - fish have tested positive to CMS, PRV and complex gill issues. Cause recorded as anaemia by company
	12/06/2017	18/06/2017	≥750g	2.75Kg	1.39	Treatment		12082	Freshwater treatment on wellboat

'Case Information' published by the Scottish Government's Fish Health Inspectorate (the [latest data available is for April to June 2017](#)) includes details of very high mortality at Marine Harvest's MacLeans Nose salmon farm due to [Cardiomyopathy syndrome](#) (CMS).

An email [obtained via FOI from the Scottish Government](#) revealed that Marine Harvest was experiencing increases in mortality from a number of sites in late October 2017 citing "Anaemia issues", "CMS" and "complex gill issue":

**From:** [REDACTED]  
**Sent:** 30 October 2017 10:42  
**To:** [REDACTED]  
**Cc:** [REDACTED]

**Subject:** Mortality and sea lice issues, Marine Harvest

[REDACTED]

I received an update on Friday lunchtime last week from [REDACTED] at Marine Harvest concerning sea lice and mortality issues at a number of their sites.

In terms of sea lice, the latest figures have been sent to you. The company has gone from usually having 2-3 sites to report to 9 sites, three of these are sitting just below an average of 8 and are being managed through harvesting and treatment. All the details should be within the file submitted to [REDACTED]

From a mortality perspective, increases have been noted from a number of sites in the last week. Anaemia issues have been of concern, not suspected to be linked to ISA or any evidence of obvious haemorrhage, but may be a consequence of the complex gill issue. Mortality has also been attributed to CMS, but in many cases there are multifactorial causes. Many of these cases will need a follow up and I suggest contacting the site manager for further details as required.

- Invasion Bay – mortality >1% per week for weeks of 2<sup>nd</sup>, 9<sup>th</sup>, 16<sup>th</sup> October – attributed to CMS
- MacLean’s Nose – historic CMS issues, but now fine that Q4s are out (Q1s only remaining on site)
- Loch Alsh – escalating morts in October up to 1% per week attributed to CMS
- Caolas A Deas (Loch Shell) – Last week 2.5% loss and 0.7% loss on east and west parts of site respectively, attributed to CMS
- Poll Na Gille – presently losing 1-2.1% per week (attributed to CMS, sea lice, anaemia)
- Soay (WLT) treatment (FW) associated mortality – 5.7% week of 9th October
- Loch Hourn (Creag an T’Sagairt) – anaemia since July but no mortality issues. Sea lice control through cleaner fish. Week of 18 September >1% mortality, last week 0.8% mortality
- Ardintoul – levels of anaemia in some pens, testing undertaken suggest no infective cause. Sea lice at 3.5 average for farm. Treatment underway but likely to result in mortality
- North Shore – over the last 4 weeks 2% mortality per week, on north shore east 3.9, 2.5, 4.1% mortality for the last 3 weeks. Some fish treated with antibiotics with some positive effect, plan to harvest out ASAP once below MRL. Extreme presentation of regenerative anaemia. Histology evidence of low grade challenge relating to the gills. No evidence of infectious cause (with respect to anaemia). Site also suffered/ suffering from AGD, PD and Pasturella.
- Port Na Cro – 1% mortality 25 September. Last week 6% mortality. Sea lice and anaemia listed as attributing factors
  - BDNC – one week in October 1% mortality

The company are trying to harvest appropriate stocks as quickly as possible. It was reported that there is no capacity to increase harvest rate within the company or across the wider industry.

Actions – we need to follow up on both the mortality reports for our records (I would suggest this would be best done through site managers) and agree on a strategy of visits going forward, where required, we have visited a number of these sites recently and are due to visit some in the near future.

The latest mortality and disease data [published on Marine Harvest's web-site](#) is for [September 2017](#) - including:



## Marine Harvest Scotland

September 2017

	Avg Gravid Female	Incident Based Mortality	Comment
Loch Hourn	0.48	4.62%	Treatment loss
MacLean's Nose	1.52	4.84%	Bacterial Infection (Treated)
Loch Erisort	0.57	5.84%	Bacterial Infection (Treated)

Data for [August 2017](#) includes:



## Marine Harvest Scotland

August 2017

	Avg Gravid Female	Incident Based Mortality	Comment
MacLean's Nose	0.16	4.15%	Cardiomyopathy Syndrome (viral infection causing weak hearts)
Loch Erisort	1.18	6.08%	AGD / Gill Infection
Loch Shell	0.12	3.11%	Treatment Loss

Other data [published monthly by Marine Harvest](#) indicates that Cardiomyopathy Syndrome (CMS) started causing mortality problems at MacLean's Nose in [February 2017](#) (10.79% mortality) with problems continuing in [March 2017](#) (11.17% mortality - with 4.02% mortality also reported at Loch Alsh); [April 2017](#) (12.6% and 3.79% at Loch Alsh); [May 2017](#) (13.96%); [June 2017](#) (9.77%) and [July 2017](#) (4.07%).

An FOI reply from the Scottish Government in February 2018 detailed Marine Harvest's North Shore salmon farm as being affected by *Pasteurella skyensis* in 2017:

**Mortality Event Report**

Mortality Event ID	MRT00540
Site Name:	North Shore
Site No:	FS1033
Start date of mortality:	23/10/2017
Period of mortality:	Weekly
Percentage mortality:	5.53
Explained/unexplained:	Explained
Reason (if explained):	AGD, Complex gill issues, PD, PGD, Pasteurella skyensis
Business Name:	Marine Harvest (Scotland) Ltd

**Response to your request**

Please find enclosed a copy of the information that you have requested. This is extracted information from our record of mortality events which have been reported to Marine Scotland. In each of these reports, *Pasturella skyensis* is referenced, along with other, multiple, causes of mortality. As a result, the significance of *Pasturella skyensis* as a mortality cause in any of those records is not clear. Further clarity may be available through case information, the publication of which is detailed below.

As explained in our email to you on 2 February 2018, the reasons why "*Pasturella skyensis*" has not been reported in the 2017 disease data provided to you previously can be explained with reference to the following points –

- The information provided to you through previous FoI requests was only complete up to the date that the request was received
- *Pasturella skyensis* is not a listed disease under the present Aquatic Animal health regulations and therefore there are no obligations on fish farm operators to report the presence of the pathogen
- Marine Scotland FHI do not hold a comprehensive record of fish farm mortalities, or the occurrence and presence of pathogens and diseases across Scotland

You will also find some additional information through Marine Scotland's Fish Health Inspectorate's active publication plan. This involves the publication of case information relating to aquatic animal health surveillance in Scotland. Information is published on a quarterly basis, three months in arrears:

<http://www.gov.scot/Topics/marine/Fish-Shellfish/FHI/CaseInformation>

In addition, can I draw your attention a previous FOI request containing information relating to *Pasteurella skyensis* and the response to a parimantary question upon the same subject. Both of these responses are publicly available at the following weblinks:

<https://beta.gov.scot/publications/foi-17-02756/>

<http://www.parliament.scot/parliamentarybusiness/28877.aspx?SearchType=Advance&ReferenceNumbers=S5W-12442&ResultsPerPage=10> – details of the inspection, including the results, referred to within the response given will be released through the Fish Health Inspectorate's active publication plan referenced above.

The Case Information referred to above is available [online here](#)

The previous FOI request is available [online here](#)

The Parliamentary Question is available [online here](#)

**Question S5W-12442: Donald Cameron, Highlands and Islands, Scottish Conservative and Unionist Party, Date Lodged: 03/11/2017 R**

To ask the Scottish Government what action it will take in light of recent reports that over 125,000 fish have died as a result of *Pasteurella skyensis* on the Isle of Lewis.

**Answered by Fergus Ewing (14/11/2017):**

Scottish Government's Fish Health Inspectorate received notification of increased mortality at North Shore fish farm, Isle of Lewis, and a site inspection was conducted on 18 October 2017. Diagnostic samples were taken to screen for the presence of listed diseases and to determine the cause of mortality on site. There is no evidence of listed disease from any of the samples taken. A diagnostic case review will be completed before written notification, which will include the significance of any findings, is issued to the company.

**Current Status:** Answered by Fergus Ewing on 14/11/2017



Mortality data obtained via by the Global Alliance Against Industrial Aquaculture from SEPA [revealed](#) that Marine Harvest had 2.29 million mortalities (4,211 tonnes) during 2017 (up to September).

### Marine Harvest Mortalities in 2017 (January to September)

	by Number	by Weight (kg)
January	146768	298172
February	276176	297784
March	242580	383483
April	241038	430080
May	178654	422361
June	181113	493186
July	277986	419200
August	447843	674938
September	299989	791933
<b>TOTAL</b>	<b>2292147</b>	<b>4211137</b>

[Download Excel spreadsheet: Marine Harvest mort numbers & weights \(Jan to Sept 2017\)](#)

The data also [revealed](#) that the ten biggest monthly losses at Marine Harvest salmon farms during 2017 (up to September) were:

- 149,949 at Colonsay in August (reported via [Scotland's Aquaculture](#) as [12,439kg](#))
- 97,235 at MacLeans Nose in March (reported via [Scotland's Aquaculture](#) as [107,760 kg](#))
- 87,914 at MacLeans Nose in April (reported via [Scotland's Aquaculture](#) as [135,641kg](#))
- 85,147 at MacLeans Nose in May (reported via [Scotland's Aquaculture](#) as [156,754kg](#))
- 76,913 at Tabhaigh in August (reported via [Scotland's Aquaculture](#) as [265,069kg](#))
- 70,627 at MacLeans Nose in February (reported via [Scotland's Aquaculture](#) as [67,757kg](#))
- 62,747 at Erisort (North Shore East) in September (reported via [Scotland's Aquaculture](#) as [214,813kg](#))
- 48,620 at Soay Sound in August (reported via [Scotland's Aquaculture](#) as [3,645kg](#))
- 41,946 at Creag an Sagairt West in June (reported via [Scotland's Aquaculture](#) as [116,536kg](#))
- 41,615 at Ardintoul in February (reported via [Scotland's Aquaculture](#) as [4599kg](#))

The 100 worst salmon farm sites for mortalities (by weight and month) between 2002 and 2017 were:

1	Year	Mortalities (Kg)	Submitted By	Site Name	Local Authority
2	01-Dec-15	640812	Grieg Seafood Shetland Ltd	Cole Deep	Shetland Islands
3	01-Feb-10	564900	Rysa Farm Salmon	Pegal Bay	Orkney Islands
4	01-Oct-17	527936	Cooke Aquaculture Scotland	Stead of Aithness	Shetland Islands
5	01-Oct-13	494652.3731	Marine Harvest (Scotland) Ltd	Portnalong	Highland
6	01-Nov-17	487622	The Scottish Salmon Company Ltd	Druimyeon Bay	Argyll and Bute
7	01-Apr-02	423165	Scottish Sea Farms Ltd	Sand Sound, Bixter	Shetland Islands
8	01-Nov-17	422946	Cooke Aquaculture Scotland	Stead of Aithness	Shetland Islands
9	01-Oct-16	396461	The Scottish Salmon Company Ltd	Trilleachan Mor	Eilean Siar
10	01-Oct-14	392856.0973	Marine Harvest (Scotland) Ltd	Greshornish	Highland
11	01-Oct-14	361742.2665	Marine Harvest (Scotland) Ltd	Marulaig Bay	Eilean Siar
12	01-Oct-12	340000	Hjaltland Seafarms Ltd	Setterness South	Shetland Islands
13	01-Nov-14	330998.5855	Marine Harvest (Scotland) Ltd	Eilean Raineach	Eilean Siar
14	01-Aug-02	326520	Lewis Salmon Ltd	Arbhair	Eilean Siar
15	01-Sep-17	319615	The Scottish Salmon Company Ltd	Tuath (Rubha na Gall)	Argyll and Bute
16	01-Aug-08	317940	Scottish Sea Farms Ltd	Fiunary	Highland
17	01-Nov-14	294281.1441	Marine Harvest (Scotland) Ltd	Greshornish	Highland
18	01-Oct-11	291056	The Scottish Salmon Company Ltd	St Molios	North Ayrshire
19	01-Sep-16	289180.2091	Marine Harvest (Scotland) Ltd	Soay Sound	Eilean Siar
20	01-Nov-14	285003.843	Marine Harvest (Scotland) Ltd	Scotasay	Eilean Siar
21	01-Oct-16	283830.0231	Marine Harvest (Scotland) Ltd	Noster	Eilean Siar
22	01-Jul-17	272236	The Scottish Salmon Company Ltd	Gravir Outer	Eilean Siar
23	01-Nov-07	271358	Mainstream Scotland Ltd	Chalmers Hope	Orkney Islands
24	01-Oct-16	268508.1291	Marine Harvest (Scotland) Ltd	Eilean Raineach	Eilean Siar
25	01-Feb-15	266341.487	Marine Harvest (Scotland) Ltd	Noster	Eilean Siar
26	01-Feb-12	266000	Hjaltland Seafarms Ltd	Skewart Holm (Linga)	Shetland Islands
27	01-Aug-17	265069.1243	Marine Harvest (Scotland) Ltd	Tabhaigh	Eilean Siar
28	01-Oct-12	260000	Hjaltland Seafarms Ltd	Collafirth Delting Site 3	Shetland Islands
29	01-Dec-15	257964.7395	Marine Harvest (Scotland) Ltd	Caolas a Deas East	Eilean Siar
30	01-Aug-17	256601	The Scottish Salmon Company Ltd	Gravir Outer	Eilean Siar
31	01-Nov-15	254409	Grieg Seafood Shetland Ltd	Cole Deep	Shetland Islands
32	01-Oct-16	249559	The Scottish Salmon Company Ltd	Ardgaddan	Argyll and Bute
33	01-Dec-15	248711.2032	Marine Harvest (Scotland) Ltd	Caolas a Deas West	Eilean Siar
34	01-Nov-16	247584	The Scottish Salmon Company Ltd	Trilleachan Mor	Eilean Siar
35	01-Sep-17	244634	Scottish Sea Farms Ltd	Snarraness Voe	Shetland Islands
36	01-Aug-06	241867.7818	Marine Harvest (Scotland) Ltd	Sconser, Balmeanach E	Highland
37	01-Oct-16	241800	Grieg Seafood Shetland Ltd	Gob na Hoe	Highland
38	01-Jul-07	239613.5303	Marine Harvest (Scotland) Ltd	An Camus	Eilean Siar
39	01-Oct-12	236581	The Scottish Salmon Company Ltd	Trilleachan Mor	Eilean Siar
40	01-Mar-10	234000	Rysa Farm Salmon	Pegal Bay	Orkney Islands
41	01-Jul-16	230865.2262	Marine Harvest (Scotland) Ltd	Greshornish	Highland

42	01-Oct-16	225052.2968	Marine Harvest (Scotland) Ltd	Seaforth	Eilean Siar
43	01-Oct-14	224532.9078	Marine Harvest (Scotland) Ltd	Stulaigh Island	Eilean Siar
44	01-Nov-15	224092.255	Marine Harvest (Scotland) Ltd	Caolas a Deas East	Eilean Siar
45	01-Oct-17	223889	Scottish Sea Farms Ltd	Allt a Chois (Kishorn N	Highland
46	01-Mar-07	215805	Mainstream Scotland Ltd	Wick of Vatsetter	Shetland Islands
47	01-Sep-17	214813.5376	Marine Harvest (Scotland) Ltd	Erisort, North Shore Ea	Eilean Siar
48	01-Sep-07	212474.2511	Marine Harvest (Scotland) Ltd	Gasay Island	Eilean Siar
49	01-Oct-07	211340.5097	Marine Harvest (Scotland) Ltd	An Camus	Eilean Siar
50	01-Oct-12	210000	Hjaltland Seafarms Ltd	Swining Voe Site 3 (Co	Shetland Islands
51	01-Sep-08	204090	Scottish Sea Farms Ltd	Fiunary	Highland
52	01-Dec-11	203156	Lakeland Marine Farm Ltd	Ardmaddy	Argyll and Bute
53	01-Nov-13	199413.3	The Scottish Salmon Company Ltd	Druimyeon Bay	Argyll and Bute
54	01-Oct-15	198039.8929	Marine Harvest (Scotland) Ltd	Caolas a Deas West	Eilean Siar
55	01-Aug-16	197850.8304	Marine Harvest (Scotland) Ltd	Scotasay	Eilean Siar
56	01-Nov-07	197045	Pan Fish Scotland Ltd	St Molios	North Ayrshire
57	01-Jun-11	195000	Hjaltland Seafarms Ltd	Linga (South of Linga)	Shetland Islands
58	01-Dec-14	194867.6	Loch Duart Ltd	Caolas Loch Portain	Eilean Siar
59	01-Sep-16	192373.8226	Marine Harvest (Scotland) Ltd	Grey Horse Channel	Eilean Siar
60	01-Jan-16	192149.0095	Marine Harvest (Scotland) Ltd	Caolas a Deas East	Eilean Siar
61	01-Sep-07	191007.3607	Marine Harvest (Scotland) Ltd	An Camus	Eilean Siar
62	01-Mar-12	190000	Hjaltland Seafarms Ltd	Skewart Holm (Linga)	Shetland Islands
63	01-Nov-12	190000	Hjaltland Seafarms Ltd	Swining Voe Site 3 (Co	Shetland Islands
64	01-Sep-14	186861.9695	Marine Harvest (Scotland) Ltd	Soay Sound	Eilean Siar
65	01-Jul-07	186799.9622	Marine Harvest (Scotland) Ltd	Gasay Island	Eilean Siar
66	01-Sep-16	185949.5711	Marine Harvest (Scotland) Ltd	Eilean Raineach	Eilean Siar
67	01-Dec-15	185802.3861	Marine Harvest (Scotland) Ltd	Cairidh	Highland
68	01-Nov-15	184763.9863	Marine Harvest (Scotland) Ltd	Invasion Bay	Highland
69	01-Oct-14	182893.6145	Marine Harvest (Scotland) Ltd	Soay Sound	Eilean Siar
70	01-Aug-09	181231	North Atlantic Salmon Ltd	Skewart Holm (Linga)	Shetland Islands
71	01-Oct-15	176385.9	The Scottish Salmon Company Ltd	Geasgill	Argyll and Bute
72	01-Aug-09	176274	Westside Salmon Company	Brindister Crossroads	Shetland Islands
73	01-Oct-17	175884	The Scottish Salmon Company Ltd	Druimyeon Bay	Argyll and Bute
74	01-Sep-14	175662.9	The Scottish Salmon Company Ltd	Taranaish	Eilean Siar
75	01-Oct-17	175161.7139	Marine Harvest (Scotland) Ltd	Sron	Highland
76	01-Jun-15	174773	Scottish Sea Farms Ltd	Teisti Geo	Shetland Islands
77	01-Oct-17	173967	Scottish Sea Farms Ltd	Kishorn Outer, Offshor	Highland
78	01-Dec-14	173493.7032	Marine Harvest (Scotland) Ltd	Eilean Raineach	Eilean Siar
79	01-Oct-17	171645.0592	Marine Harvest (Scotland) Ltd	Poll na Gille	Argyll and Bute
80	01-Oct-07	169824.2268	Marine Harvest (Scotland) Ltd	Duich	Highland
81	01-Nov-04	168327	Stolt Sea Farm UK Ltd	Groatay	Eilean Siar

82	01-Nov-08	168056	Scottish Sea Farms Ltd	Fore Holm	Shetland Islands
83	01-Aug-16	167720.7622	Marine Harvest (Scotland) Ltd	Eilean Raineach	Eilean Siar
84	01-Aug-16	163491	The Scottish Salmon Company Ltd	Sgian Dubh	Argyll and Bute
85	01-Aug-16	163001	The Scottish Salmon Company Ltd	Taranaish	Eilean Siar
86	01-Aug-02	162710	Western Isles Seafood Co Ltd	Gravir Outer	Eilean Siar
87	01-Nov-02	160896	Aquascot Seafarms Ltd	Wick of Vatsetter	Shetland Islands
88	01-Nov-15	159450.1315	Marine Harvest (Scotland) Ltd	Ardmaddy South	Argyll and Bute
89	01-Sep-07	159297	Scottish Sea Farms Ltd	Fore Holm	Shetland Islands
90	01-Nov-17	159141.0419	Marine Harvest (Scotland) Ltd	Poll na Gille	Argyll and Bute
91	01-Aug-11	158827	Northern Isles Salmon Ltd	West Fara	Orkney Islands
92	01-Aug-06	158792.0871	Marine Harvest (Scotland) Ltd	Maol Ban	Highland
93	01-May-17	156754.0857	Marine Harvest (Scotland) Ltd	MacLeans Nose	Highland
94	01-Jan-16	155675	Kames Fish Farming Ltd	Rubh an Trilleachain	Argyll and Bute
95	01-Nov-17	153826	The Scottish Salmon Company Ltd	Strone Point	Argyll and Bute
96	01-Oct-14	153000	Hjaltland Seafarms Ltd	Setterness North	Shetland Islands
97	01-Nov-07	152093.045	Marine Harvest (Scotland) Ltd	An Camus	Eilean Siar
98	01-Nov-07	150882.7141	Marine Harvest (Scotland) Ltd	Greshornish	Highland
99	01-Sep-04	150500.621	Marine Harvest (Scotland) Ltd	Scallastle Bay	Argyll and Bute
100	01-Nov-15	150063.6	The Scottish Salmon Company Ltd	Sgian Dubh	Argyll and Bute
101	01-Nov-12	150000	Hjaltland Seafarms Ltd	Setterness North	Shetland Islands

[Download 2017 Excel SEPA data from Scotland's Aquaculture Database with summary tables & graphs](#)

Marine Harvest had the most mortalities followed by the Scottish Salmon Company, Cooke Aquaculture, Scottish Sea Farms, Grieg Seafood and Loch Duart all with over 1,000 tonnes of dead farmed salmon in 2017:

<b>Scottish Farmed Salmon Mortalities in 2017 (Tonnes)</b>	
Marine Harvest	7,066
Scottish Salmon Company	6,029
Cooke Aquaculture	4,552
Scottish Sea Farms	4,328
Grieg Seafood	2,191
Loch Duart	1,066
Kames	187
Wester Ross	15
<b>Total</b>	<b>25,435</b>

The worst monthly mortalities during 2017 were reported at the following salmon farming sites with Gravir Outer (Scottish Salmon Company) and Poll na Gille (Marine Harvest) featuring twice with most morts appearing in October/November:

Year	Mortalities (Kg)	Submitted By	Site Name	Local Authority
01-Oct-17	527936	Cooke Aquaculture Scotland	Stead of Aithness	Shetland Islands
01-Nov-17	487622	The Scottish Salmon Company Ltd	Druimyeon Bay	Argyll and Bute
01-Nov-17	422946	Cooke Aquaculture Scotland	Stead of Aithness	Shetland Islands
01-Sep-17	319615	The Scottish Salmon Company Ltd	Tuath (Rubha na Gall)	Argyll and Bute
01-Jul-17	272236	The Scottish Salmon Company Ltd	Gravir Outer	Eilean Siar
01-Aug-17	265069.1243	Marine Harvest (Scotland) Ltd	Tabhaigh	Eilean Siar
01-Aug-17	256601	The Scottish Salmon Company Ltd	Gravir Outer	Eilean Siar
01-Sep-17	244634	Scottish Sea Farms Ltd	Snarraness Voe	Shetland Islands
01-Oct-17	223889	Scottish Sea Farms Ltd	Allt a Chois (Kishorn North Shore)	Highland
01-Sep-17	214813.5376	Marine Harvest (Scotland) Ltd	Erisort, North Shore East	Eilean Siar
01-Oct-17	175884	The Scottish Salmon Company Ltd	Druimyeon Bay	Argyll and Bute
01-Oct-17	175161.7139	Marine Harvest (Scotland) Ltd	Sron	Highland
01-Oct-17	173967	Scottish Sea Farms Ltd	Kishorn Outer, Offshore of Airigh-drishaig	Highland
01-Oct-17	171645.0592	Marine Harvest (Scotland) Ltd	Poll na Gille	Argyll and Bute
01-Nov-17	159141.0419	Marine Harvest (Scotland) Ltd	Poll na Gille	Argyll and Bute
01-May-17	156754.0857	Marine Harvest (Scotland) Ltd	MacLeans Nose	Highland
01-Nov-17	153826	The Scottish Salmon Company Ltd	Strone Point	Argyll and Bute
01-Nov-17	144124.9417	Marine Harvest (Scotland) Ltd	Sron	Highland
01-Oct-17	143399.9967	Marine Harvest (Scotland) Ltd	Erisort, North Shore West	Eilean Siar
01-Oct-17	139634.3207	Marine Harvest (Scotland) Ltd	Port na Cro	Argyll and Bute

Read more via "[The Herald: "Video: Disease concern as Scots salmon farmers' produce 'stomach-churning' record levels of fish deaths "](#)".

Other data on mortalities include this '[Mortality Event Report](#)' obtained by GAAIA from the Scottish Government [via FOI](#) detailing 60,000 morts at Marine Harvest's Soay farm in 2016 due to hydrogen peroxide treatment for Amoebic Gill Disease:

#### Mortality Event Report

Site Name: Soay

Site No: FS0646

Start date of mortality: week 37

Period of mortality: Weekly

Percentage mortality: 60,000 (13%), Post hydrogen peroxide treatment for AGD

Reason (if explained): «if\_explained\_select\_reasons»

Company: Marine Harvest Scotland - FB0119

Species: SAL

Water Type: SW

Weight (site average): 2.5 kg

Weight (affected population average): 2.5 kg

Age: 2016 Q4

Estimated number of fish lost: 60,000

Additional information: Mortalities have dropped to double figures per cage, a further H<sub>2</sub>O<sub>2</sub> treatment is planned for coming weeks.

MS action: PSI conducted and site inspection to be scheduled.

Nearly 100,000 farmed salmon were 'Thermoliced' to death by Marine Harvest during 2016:



Read more via "['Thermolicer' Back-Fires Killing 95,400 Farmed Salmon](#)"; [Fish farm firm kills 175,000 salmon by accident](#); "[Oops: fish farm firm kills 175,000 of its salmon by accident](#)" and "[Thousands of fish poached alive in lice treatment bungle](#)"



Mortality events reported by [Marine Harvest in 2017](#) include three cases involving over 20,000 dead salmon due to using a Thermolicer:

Site Name	Start date	End date	Size of fish	Average weight of affected population	Mortality rate recorded (%)	If explained, select reason(s)	If unexplained, select observations:	Total mortality during event (if applicable)	Additional information (e.g. action taken)
Creag an T'Sagairt (Loch Hourm)	19/06/2017	25/06/2017	≥750g	2.75Kg	1.09	Treatment		9331	Thermolicer

Cairidh	05/01/2017	12/01/2017	≥750g	~3kg	1.3	Treatment	8561	Pen 1 and 2 affected post Thermolicer treatment the rest of the site was not treated
Caolas A Deas	21/08/2017	27/08/2017	≥750g	~4.5Kg	1.89	PGD, Treatment	4663	Thermolicer treatment on one cage. Decided not to treat other cages with thermolicer.

Online via: "[Scottish Salmon's Mort Mountain Leaps Over 10 Million - FOI reveals 2.3 million dead salmon at Marine Harvest farms in 2017](#)".

An FOI reply from the Scottish Government in November 2017 also detailed: "[Salmon mortality rates at farming sites 1997-2016](#)".



[Fol-17-02216 - Information requested - table.pdf](#)

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[FOI-17-02216 mortality Information.pdf](#)

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The [mortality and disease data disclosed included](#):

Site	Species	FS Number	Year	Date	Notes
Aird Taranish	HS	FS0752	1999/1910	24/11/1999	Mortalities last week have increased dramatically - 17/11 cage 6 = 1,500; 18/11 cage 7 = 400; 19/11 cage 2 = 500 and cage 3 = 1,000. Previous week to this mortalities were only a few per cage e.g. 35 for the whole site. The site was affected first with the mortalities starting in a couple of cages and gradually spreading to the others.
Aird Taranish	HFP	FS0752	1999/2062	08/12/1999	Mortalities attributed to a supposed gill problem (losses related to jellyfish?). Bacterial infection ( <i>Vibrio viscosus</i> ) and gill pathology identified from samples taken and analysed may be contributing factors to the mortality on site.
Aird Taranish	HS	FS0752	2000/0090	24/01/2000	Have experienced increased mortality numbers due to <i>Vibrio viscosus</i> (diagnosed last visit) - numbers now dropping.
Aird Taranish	HSC	FS0752	2001/1672	07/11/2001	Morts reported as low 1 - 3 per cage per week.
Aird Taranish	HSC	FS0752	2003/0698	19/08/2003	Low mortality reported - unable to see mortality records.
Aird Taranish	HSC	FS0752	2003/1079	23/09/2003	Mortality 9 - 14 / cage / month, between 22/4/03 and date of inspection. No mortality recorded since end of June.
Aird Taranish	HSC	FS0752	2005/1243	02/11/2005	Recent mortality - 900 /cage in worst pen (1), 875 in pen 6, 850 Pen 2 / week. Evidence of recent increased mortality pen 1 - 3,000; pen 2 - 2,500; pen 7 - 1,800; pen 8 - 2,000 - all 10/10/2005. 15/08/2015 - morts high in all pens - Pen 7 - 4,000; Pen 8 - 8,000; Pen 6 - 3,000. - all estimated mortalities. First peak in mortality - 23/05/2005 - Pen 1 - 1,100; Pen 2 - 800. All mortality attributed to IPN.
Aird Taranish	HSC	FS0752	2008/0237	16/04/2008	Recent mortality: up to 1,000 / cage / month. Records checked for March 2008.
Taranaish	Lighthouse Caledonia	FS0752	2008/0878	09/12/2008	Recent mortality - 1,250 / site / November attributed to predators (seals) and 7,254 unspecified (mainly lice damage). Records checked between Feb 08 and Dec 08. No mortalities for Oct and Dec to date due to weather.
Taranaish	Lighthouse Caledonia	FS0752	2009/0277	26/05/2009	Recent mortality: 348 - 6,976 / cage / month. Pens 6 - 6,976; Pen 1 - 3,459; Pen 2 - 5,296. ~100 / cage / May. April Pen 11 - 2,290 transport morts. High / elevated morts attributed to 'environmental shock'.
Taranaish	Lighthouse Caledonia	FS0752	2010/0218	12/05/2010	Recent mortality: 14 - 64 / month / cage (average 20 / cage). Higher morts post transfer in cage 14 - fish came in small ~ 40g, up to 1,000 mortalities / month. Records checked between June 2009 and 12/05/10.
Taranaish	SSC	FS0752	2012/0509	10/10/2012	Recent mortality: 650 for site per week. 2011 week 30 ~ 7,000 for site attributed to AGD. Records checked between March and October 2011.
Gousam	MH	FS0998	2001/0936	19/06/2001	Mortality - 2 - 7 / cage / week.
Gousam	MH	FS0998	2001/1674	06/11/2001	Mortality - 1 - 6 / week / cage.
Gousam	MH	FS0998	2002/0820	25/06/2002	Increased mortalities up to 14,000 / week / site. Increased mortalities noted week 22 (20/5/02) highest morts week 25, now reducing. IPN isolated by company vet. Samples taken and analysed confirmed IPN likely contributing factor to mortality on site.
Gousam	MH	FS0998	2002/1080	04/09/2002	Still losing failed smolts in the summer intake.
Gousam	MH	FS0998	2003/0494	13/05/2013	Mortalities - approximately 5-10 fish / cage / week.
Gousam	MH	FS0998	2003/1080	23/09/2003	Mortalities - 3 - 4 / cage / week. Higher mortalities around week 32-34 (up to 30 / cage / week). Grading and very high temperatures may be contributing factors. Records check between 01/08/2003 and 23/09/2003.
Gousam	MH	FS0998	2004/0152	03/03/2004	Mortalities - 15 - 40 / cage / month. Records checked between 01/01/2004 and 09/02/2004. Site follow at time of visit.

Gousam	MH	FS0998	2004/0531	15/06/2004	Critical IPN on site. Pen 18 35% loss attributed to IPN, average 18% across site. Recent mortality - 15% overall. Recent increased mortality across stocks / attributed to IPN. Up to 30% mortality observed in some stocks. Records checked between 01/01/2004 and 16/05/2004.
Gousam	MH	FS0998	2005/0345	01/02/2005	Recent mortality ~ 1,000 / site / month. Peak in mortality in September/October 2004 ~ 4,000 across site attributed to IPN in second input of fish. Records checked June 2004 to 31/01/2005
Gousam	MH	FS0998	2006/0489	20/06/2006	Recent mortality ~ 3,500 / June; 15,000 / May; 25,000 / April. (All transfer morts mainly, some runts) Recent possible IPN
Gousam	MH	FS0998	2007/0365	25/04/2007	Recent mortality ~ 20 / week / pen. Most morts attributed to physical damage & seal attacks. Records checked between Feb 1st 2007 and April 25th 2007
Gousam	MH	FS0998	2007/0408	10/05/2007	Recent mortality 400-700 / pen since Jan. Higher numbers attributed to seals. 10 - 18 / pen / week. Records checked between 01/01/07 and 08/05/07
Gousam	MH	FS0998	2007/0467	22/05/2007	Recent mortality ~ 35 / cage / week. Records checked between 02/04/07 and 22/05/07
Gousam	Lighthouse Caledonia	FS0998	2008/0247	15/04/2008	Mortalities mainly due to sea lice damage or sea predation. Recent mortality - 6,700 for previous 5 months until fallow. Records checked between Sept 2007 and March 2008
Gousam	SSC	FS0998	2011/0426	13/09/2011	Recent mortality: 37-25 / cage / week. June - 3,781 / site - IPN; May - 9,925 / site - IPN; April - 4,251 / site - IPN; August / 857 / site - IPN. Records checked between 26/05/09 and 13/09/11
Gousam	SSC	FS0998	2012/0405	18/07/2012	Recent mortality: up to 952 / previous month / site (0.59%) - some seal attributed and unspecified. Up to 1,600 second 2 weeks of Nov / first two weeks of Dec - AGD; 1,946 last two weeks of Feb / first two weeks of March; 2,680 second two weeks of March / first two weeks of April - due to seal predation and unspecified morts. Records checked between 13/09/11 and 18/07/12
Vacasay	Fjord SSF	FS1091	2006/0975	05/12/2006	Recent mortality: 1.96% since July 2006. 7% mortality over cycle - grading and predation losses. 4.8% transfer losses
Vacasay	Fjord SSF	FS1091	2007/0715	18/09/2007	Recent mortality: 1,193 / site / last dive 05/09/2007. Mortality increases at start of August attributed to failed smolts. Records checked since April 2007 and 17/09/07.
Vacasay	Fjord SSF	FS1091	2008/0238	16/04/2008	Recent mortality ~ 200 per cage. Records checked between Oct 07 and March 08
Vacasay	Lighthouse Caledonia	FS1091	2010/0217	12/05/2010	Recent mortality : 30 / cage / month. Cage 2 - 568 / February - seal. Records checked between Jan 2010 and 12/05/10
Vacasay	SSC	FS1091	2011/0066	09/03/2011	Recent mortality: Sept - 10 / cage / month; October 20 / cage / month; November 5 / cage / month
Vacasay	SSC	FS1091	2012/0508	10/10/2012	Recent mortality: 699 for site for previous four weeks - attributed to AGD / PGD / Gill issues. Week 31 - 4,100 for month attributed to post treatment losses. Losses also due to low oxygen. Records inspected between Jan and Oct 2012
Vuia Mor	Fjord SSF	FS1103	2007/0813	22/10/2007	Recent mortality: 150 - ~800 / cage / month. Records checked between 01/09/07 and 22/10/07
Vuia Mor	Lighthouse Caledonia	FS1103	2008/0953	19/11/2008	Recent mortality: Prior to harvest - April week 18 - 785 / site - physical damage. September 2007 week 39 - 3830 dead seal & lice. Records checked between Sept 07 and 19/11/08.
Vuia Mor	Lighthouse Caledonia	FS1103	2009/0274	26/05/2009	Recent mortality: Cage 1 & 3, 4-5,000 / May / IPN. March 3,922 / site since input attributed to predation (cormorant and seals)
Vuia Mor	Lighthouse Caledonia	FS1103	2010/0216	11/05/2010	Recent mortality: 3-50 / cage / week in most cages, cages 7 & 9 grading damage - 100 / week. Cages 7 & 9 increased mortality in March due to grading 2,000 / month across site. June / July 24,000 across site due to IPN / PD, back to normal in August 2009. Records inspected between June 2009 and 11/5/2010
Eughlam	SSC	FS1233	2011/0428	13/09/2011	Recent mortality: 1,248 / site / month - IPN. 5,375 / site / April - transport and IPN; 10,000 / site / May - IPN; 27,000 / site June - IPN; 20,000 / site / July. 5,300 / site / August

And the FOI reply detailed various [Mortality Reason Reports](#):

Mortality reason AEA-Vula Beag

Start Date 2007-02-01 End Date 2007-04-25

Mortality Reason Report



marine harvest

Object Name	Start Date	End Date
Vula Beag	2007-02-01	2007-04-25

Pen Name	Physical Damage	Grading damage	Runs	Treatment losses	Predator - Seal	Non Top 5 Reasons	Total Pr Pen
WR-Vula Beag (AEA - 0031)	153	96	44	60	24		367
WR-Vula Beag (AEA - 0032)	146	85	49	47	27		354
WR-Vula Beag (AEA - 0033)	155	69	56	55	16		351
WR-Vula Beag (AEA - 0035)	149	54	46	69	26		333
WR-Vula Beag (AEA - 0036)	193	34	58	64	20		369
WR-Vula Beag (AEA - 0037)	145	70	50	66	28		359
WR-Vula Beag (AEA - 0038)	144	89	62	52	10		357
WR-Vula Beag	155	87	60	60	6		367

Mortality Reason Report



marine harvest

Object Name	Start Date	End Date
Gousem	2007-02-01	2007-04-25

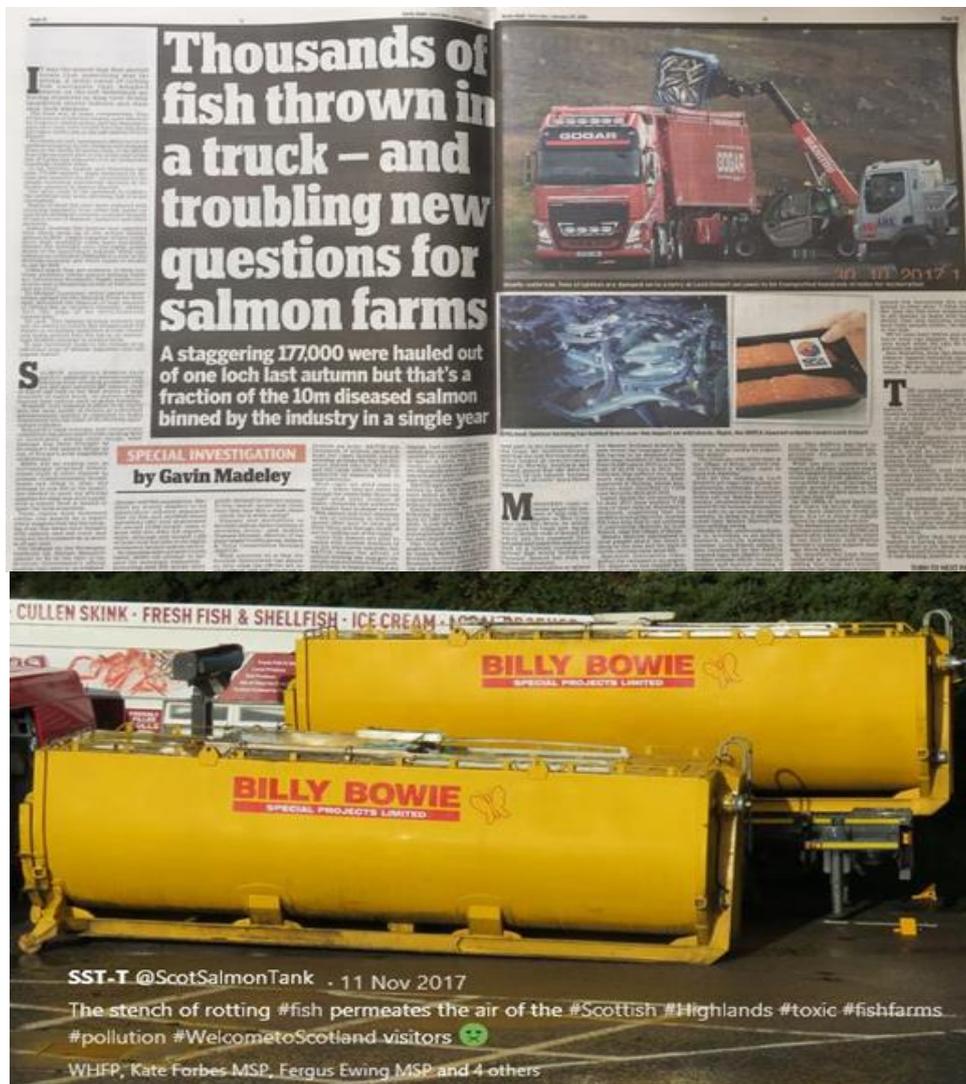
Pen Name	Physical Damage	Runs	Predator - Seal	Grading damage	Treatment losses	Non Top 5 Reasons	Total Pr Pen
WR-Gousem (AEA - 0001)	169	76	434	60	10	40	791
WR-Gousem (AEA - 0002)	137	72	70	60	15	60	424
WR-Gousem (AEA - 0003)	125	68	126	18	10	40	387
WR-Gousem (AEA - 0005)	159	94	34	47	25		359
WR-Gousem (AEA - 0006)	149	90	39	34	14		326
WR-Gousem (AEA - 0007)	136	85	22	67	18		316
WR-Gousem (AEA - 0009)	119	80	387	55	10		651
WR-Gousem (AEA - 0010)	133	83	70	56	17		359
WR-Gousem (AEA - 0011)	147	83	170	60	10		460

Read more via:

[Hard Evidence: Dossier of Data on Lice, Diseases & Mortalities at Scottish Salmon Farms](#)  
[Data on Mortalities & Diseases at Scottish Salmon Farms](#)  
[Scottish Salmon's Mort Mountain Leaps Over 10 Million - FOI reveals 2.3 million dead salmon at Marine Harvest farms in 2017](#)

"About 125,000 salmon have died due to a disease outbreak at two fish farms on the Isle of Lewis," [reported BBC Scotland](#) in October 2017. "Marine Harvest confirmed that the [sites in Loch Erisort have been hit](#) by the bacterium *Pasteurella Skyensis*". "Macleans Nose in Loch Sunart, where salmon have also been exposed to AGD, is believed to be infected by *Pasteurella skyensis*, too," [reported Fish Update](#) in October 2017.

"A staggering 177,000 were hauled out of one loch [Erisort] last autumn," [reported The Daily Mail](#) in January 2018.



Download high res images via [Photo Gallery: Dead Salmon from Scotland's Disease-Ridden Salmon Farms](#)