Sea lice monitoring report for Inverianvie estuary (Gruinard Bay), 30th May 2025

Peter Cunningham (WRFT Biologist) <u>info@wrft.org.uk</u>

Sea trout data (see page 3 for other fish)

	Inverianvi	e estuary																	
	30th May 25		Time:	first swee	p at 11am														
	Peter Cunr	ningham																	
	7 helpers																		
	bright and	sunny; ligh	t westerly	wind															
s:	5 sweeps o	of shore - th	ree before	e lunch and	two after	lunch low	er down tid	le											
	Inverianvi	e river runn	ing mediu	m high															
	A few ston	es scooped	up in net,	fish may h	ave been l	ost on 5th	sweep bec	ause of si	nagging										
	Caliaus		Le	Lepeophtheirus salmonis		is													
Location	Date	Method	Riv/Est/B each	Fish	length (mm)	weight (g)	condition factor	total	Copepodid & Chalimus (estimate)			Total L. salmonis sea lice	*estimated lice/g fish weight	Dorsal fin damage	Cryptocotyle ligua spots per cm2 of caudal fin	Predator	Photo	scale sample?	Comments
Inverianvie	30-May-25	Sweep Net	est	Sea trout	200	73	0.91	0	0	0	0	0	0.000	0	0	N	Υ	У	thin estuarine trout
			est	Sea trout	197	80	1.05	0	0	0	0	0	0.000	0	0	N	Υ	У	net damaged; estuarine trout
Inverianvie	30-May-25	Sweep Net	est	Sea trout	198	70	0.90	0	0	0	0	0	0.000	0	0	N	Y	У	brown trout markings
				Averages	198.33	74.33	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
										total lice		0							
												3							
												-							
												-							
											e	_				-			
																-			
										fish with >		0%							
li	Location Inverianvie	30th May 2 Peter Cuni 7 helpers bright and s: 5 sweeps of Inverianvi A few store Location Date Inverianvie 30-May-25 Inverianvie 30-May-25 Inverianvie 30-May-25	Peter Cunningham 7 helpers bright and sunny; ligh s: 5 sweeps of shore - th Inverianvie river runn A few stones scooped Location Date Method	30th May 25 Time: Peter Cunningham 7 helpers bright and sunny; light westerly s: 5 sweeps of shore - three before Inverianvie river running mediu A few stones scooped up in net, Location Date Method Riv/Est/B each Inverianvie 30-May-25 Sweep Net est Inverianvie 30-May-25 Sweep Net est	30th May 25 Time: first swee Peter Cunningham 7 helpers bright and sunny; light westerly wind s: 5 sweeps of shore - three before lunch and Inverianvie river running medium high A few stones scooped up in net, fish may h Location Date Method Riv/Est/B each Fish Inverianvie 30-May-25 Sweep Net est Sea trout	30th May 25 Time: first sweep at 11am Peter Cunningham 7 helpers bright and sunny; light westerly wind s: 5 sweeps of shore - three before lunch and two after Inverianvie river running medium high A few stones scooped up in net, fish may have been I Location Date Method Riv/Est/B Fish length (mm) Inverianvie 30-May-25 Sweep Net est Sea trout 200 Inverianvie 30-May-25 Sweep Net est Sea trout 197	30th May 25 Peter Cunningham 7 helpers bright and sunny; light westerly wind s: 5 sweeps of shore - three before lunch and two after lunch low Inverianvie river running medium high A few stones scooped up in net, fish may have been lost on 5th Location Date Method Riv/Est/B Fish length (mm) (g)	30th May 25 Peter Cunningham 7 helpers bright and sunny; light westerly wind s: 5 sweeps of shore - three before lunch and two after lunch lower down tid Inverianvie river running medium high A few stones scooped up in net, fish may have been lost on 5th sweep bed Location Date Method Riv/Est/B Fish length (mm) (g) condition	30th May 25 Time: first sweep at 11am Peter Cunningham 7 helpers bright and sunny; light westerly wind s: 5 sweeps of shore - three before lunch and two after lunch lower down tide Inverianvie river running medium high A few stones scooped up in net, fish may have been lost on 5th sweep because of sr Caligus Location Date Method Riv/Est/B each Fish length (mm) weight (g) condition factor total Inverianvie 30-May-25 Sweep Net est Sea trout 200 73 0.91 0 Inverianvie 30-May-25 Sweep Net est Sea trout 197 80 1.05 0 Inverianvie 30-May-25 Sweep Net est Sea trout 198 70 0.90 0	Some part Some	South May 25 Time: first sweep at 11am Peter Cunningham 7 helpers	Signature Peter Cunningham Peter Cunningham	30th May 25 Time: first sweep at 11am Peter Cunningham 7 helpers	South May 25 Time: first sweep at 11am	South May 25 Time: First sweep at 11am	South May 25 Time: first sweep at 11am Peter Cunningham Pete	Solid May 25 Time: First sweep at 11am Solid May 25 Preter Cunningham Solid May 25 Preter Cunningham Solid May 25 Predator Thelpers Solid May 25 Soweep of Shore - three before lunch and two after lunch lower down tide Solid May 25 Soweep of Shore - three before lunch and two after lunch lower down tide Solid May 25 Soweep of Shore - three before lunch and two after lunch lower down tide Solid May 25 Soweep of Shore - three before lunch and two after lunch lower down tide Solid May 25 Soweep of Shore - three before lunch and two after lunch lower down tide Solid May 25 Soweep of Shore - three before lunch and two after lunch lower down tide Solid May 25 Soweep of Shore - three before lunch and two after lunch lower down tide Solid May 26 Soweep of Shore - three before lunch and two after lunch lower down tide Solid May 26 Soweep of Shore - three before lunch and two after lunch lower down tide Solid May 26 Soweep Net Solid May 27 Solid May 27 Solid May 27 Solid May 27 Solid May 28 Soweep Net Solid May 27 Solid May 28 S	Some part Time: First sweep at 11am	30th May 25 Time: First sweep at 11am

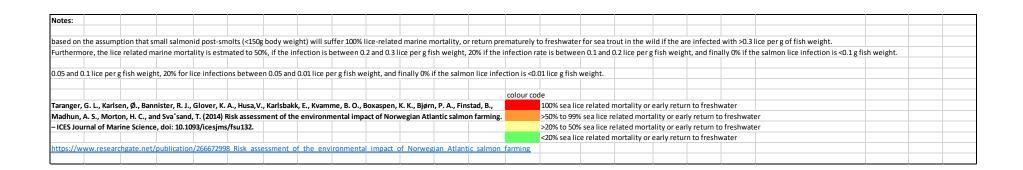
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Summary of sea lice infestation scores

Mortality / early returned estimates for sea trout in sample based on method from Taranger et al 2015, Risk assessment for the environmental impact of Norwegian salmon farming (PDF) Risk assessment of the environmental impact of Norwegian Atlantic salmon farming (researchgate.net)

Sea trout no	≥13 lice/fish?	Lice/g fish weight	Range	Mortality category	Number of fish in category	Total number of fish in sample	% of sample in category	projected mortality for category %	projected mortality of fish in sample %
1	No	0.000	>0.3	100%	0	3	0.00	0.00	
2	No	0.000	0.2-0.3	50%	0		0.00	0.00	
3	No	0.000	0.1-0.2	20%	0		0.00	0.00	
			<0.1	0%	3		100.00	0.00	0.00



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Other fish in sample

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No.	Location	Date	Method	Riv/Est/B each	Fish	length (mm)
4	Inverianvie	30-May-25	Sweep Net	est	Flatfish sp	77
5	Inverianvie	30-May-25	Sweep Net	est	Flatfish sp	84
6	Inverianvie	30-May-25	Sweep Net	est	Flatfish sp	96
7	Inverianvie	30-May-25	Sweep Net	est	Flatfish sp	77
8	Inverianvie	30-May-25	Sweep Net	est	Flounder	215
9	Inverianvie	30-May-25	Sweep Net	est	Flounder	235
10	Inverianvie	30-May-25	Sweep Net	est	Flounder	215
11	Inverianvie	30-May-25	Sweep Net	est	Plaice	235
12	Inverianvie	30-May-25	Sweep Net	est	Plaice	135
13	Inverianvie	30-May-25	Sweep Net	est	Plaice	125
14	Inverianvie	30-May-25	Sweep Net	est	Flounder	160
15	Inverianvie	30-May-25	Sweep Net	est	Flounder	123
16	Inverianvie	30-May-25	Sweep Net	est	Flounder	115

Netting team photo Invierianvie (Gurinard Bay) 30th May 2025



Acknowledgements

Monitoring to inform the Ardmair salmon farm Environment Management Plan supported by MOWI

For permissions to sweep net for sea trout, thank to Eilean Darach Estate. Thank you to all helpers.

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Photos: all ©WRFT unless otherwise indicated. All fish in photos were lightly sedated for inspection.

(top to bottom) Sea trout 200mm, 197mm & 198mm; Inverianvie estuary, 30th May 25. No lice on any of these fish

