

Peter Cunningham (WRFT Biologist) 14 Aug 2025

Fish data

1

Sea lice monitoring report for Inverianvie (Gruinard Bay) 25th July 2025

Peter Cunningham (WRFT Biologist) 14 Aug 2025

info@wrft.org.uk

Summary

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	0.003	>0.3	100%	0	4	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	
4	No	0.000	<0.1	0%	4		100.00	0.00	0.00

Notes:	
based on the assumption that small salmonid post-smolts (<150g body weight) will suffer 100% lice-related marine mortality, or return prematurely to freshwater for sea trout in the wild if the are infected with >0.3 lice per g of fish weight.	
Furthermore, the lice related marine mortality is estimated to 50%, if the infection is between 0.2 and 0.3 lice per g fish weight, 20% if the infection rate is between 0.1 and 0.2 lice per g fish weight, and finally 0% if the salmon lice infection is <0.1 g fish weight.	
0.05 and 0.1 lice per g fish weight, 20% for lice infections between 0.05 and 0.01 lice per g fish weight, and finally 0% if the salmon lice infection is <0.01 lice g fish weight.	
	colour code
Taranger, G. L., Karlsen, Ø., Bannister, R. J., Glover, K. A., Husa,V., Karlsbakk, E., Kvamme, B. O., Boxaspen, K. K., Bjørn, P. A., Finstad, B.,	100% sea lice related mortality or early return to freshwater
Madhun, A. S., Morton, H. C., and Sva" sand, T. (2014) Risk assessment of the environmental impact of Norwegian Atlantic salmon farming.	>50% to 99% sea lice related mortality or early return to freshwater
– ICES Journal of Marine Science, doi: 10.1093/icesjms/fsu132.	>20% to 50% sea lice related mortality or early return to freshwater
	<20% sea lice related mortality or early return to freshwater
https://www.researchgate.net/publication/266672998_Risk_assessment_of_the_environmental_impact_of_Norwegian_Atlantic_salmon_farming	

Sea lice monitoring report for Inverianvie (Gruinard Bay) 25th July 2025

Peter Cunningham (WRFT Biologist) 14 Aug 2025

info@wrft.org.uk

Photos: all ©WRFT unless otherwise indicated.

Team photo

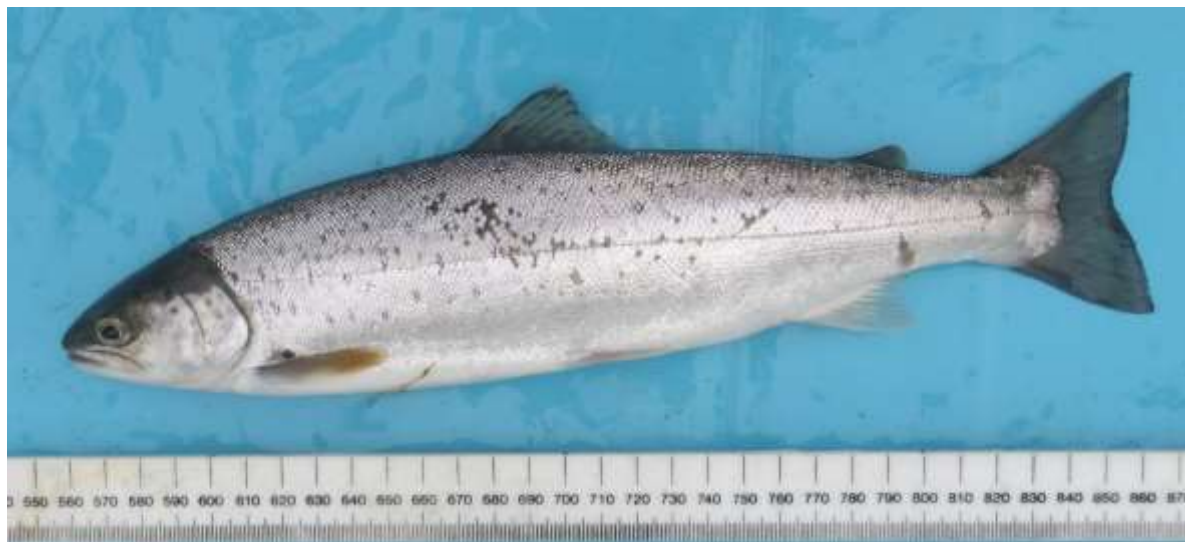


Sea lice monitoring report for Inverianvie (Gruinard Bay) 25th July 2025

Peter Cunningham (WRFT Biologist) 14 Aug 2025

info@wrft.org.uk

Sea trout 310mm Inverianvie 25 July 2025, just one preadult louse



Sea trout 200mm Inverianvie 25th July 2025

