

Animal Welfare and Organic Aquaculture in Open Systems

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The last paragraph of the section “Genetic Effects” should not be indented with the preceding quoted text. The corrected formatting is reprinted below including the leading paragraph.

These impacts necessitate an evaluation of the long-term survival of some wild salmon populations (Fleming et al. 2000). In their paper on fitness reduction and extinction, McGinnity and co-authors (2003) summarized:

Irrespective of the exact extent of fitness reduction, the fact that farm escapes are repetitive, often resulting in annual intrusions in some rivers, means that such reductions in fitness are cumulative, which could potentially lead to an extinction vortex in endangered populations.

Eliminating escapes is the best way to decrease harmful interactions between escapees and their wild counterparts (Bridger and Garber 2002). The only way to effectively eliminate escapes in organic systems, however, is to prohibit use of net pens.

Bridger, C. H., & Garber, A. (2002). Aquaculture escapement, implications, and mitigation: The salmonid case study. In B. A. Costa-Pierce (Ed.), *Ecological*

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- Fleming, I. A., Hindar, K., Mjølnertod, I. B., Jonsson, B., Balstad, T., & Lamberg, A. (2000). Lifetime success and interactions of farm salmon invading a native population. *Proceedings of the Royal Society B: Biological Sciences*, 267(1452), 1517–1523.
- McGinnity, P., Prodöhl, P., Ferguson, A., Hynes, R., Maoiléidigh, N. O., Baker, N., et al. (2003). Fitness reduction and potential extinction of wild populations of Atlantic salmon, *Salmo salar*, as a result of interactions with escaped farm salmon. *Proceedings of the Royal Society B: Biological Sciences*, 270(1532), 2443–2450.