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Economic analysis of tiger grouper *Epinephelus fuscoguttatus* and humpback grouper *Cromileptes altivelis* commercial cage culture in Indonesia

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Abstract

This study presents an economic analysis of tiger and humpback grouper at different production scales in Indonesia. The results highlight the non-viability of small-scale tiger grouper farming, with a 5-year projected negative cumulative cash flow of –IDR 18,102,650.00 and a negative net present value (NPV) of –IDR 22,059,576.28. An increased production scale of tiger grouper highlights a marginal viability for medium-scale farms (with a 5-year projected cumulative cash flow of

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highlighted a positive cumulative cash and NPV, a benefit cost ratio over 2, an internal rate of return over 300% and a payback period <1 year. A sensitivity analysis revealed that increased survival rate up to 80% would increase cumulative cash and NPV of small-scale tiger grouper cage culture. Additionally, improved profitability performance was associated with decreasing major production costs, increasing production and price of the product.

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