



Node 4.5

Socio-Economics of EBFM

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western australian
marine science institution



THE UNIVERSITY OF
WESTERN AUSTRALIA



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EBFM and Socio-Economics

Fishery resources generate large direct and indirect economic and social benefits for Western Australia

- Generate > \$ 450 million/yr ex-vessel/ex-farm gate in sales
- Generate > \$ 300 million/yr in overseas exports
- Recreational fishers number 603,000 (2008/9) and spend over \$1.2 billion/yr
- These activities account for tens of thousands of jobs in WA
- Many WA towns & communities owe their origins to the fishing industry and the commercial and recreational fishing sectors should contribute significantly to their future wellbeing



EBFM and Socio-Economics

- Maintaining these social and economic benefits is integral to the EBFM framework
- How to address social and economic sustainability in the fisheries management context is covered in the EBFM risk assessment process
- Node 4.5 'Socio Economic Implications Associated with Implementing EBFM' addresses this for the West Coast Demersal Scalefish Resource





4.5.1 A review of the methods for completing social and economic assessments for use in EBFM

Management Question being addressed

- Identify and develop analytical frameworks and strategies that can assist in the development of Ecosystem Based Fisheries Management (EBFM)

Outputs of Relevance to management

- *Social and economic evaluation methods for fisheries: a review of the literature, 2009.*

Fisheries Research Contract Report No. 21:[Completed 2009]

Science Quality/Major Outcomes to date

- Substantial interest and usage of project outcome



4.5.2 Modelling Recreational Fishing Behaviour

Management Questions being addressed

- What are the key drivers of recreational fishing activity?
- How are recreational fishers likely to react to different types of management controls?

Science Quality/Major Outcomes to date

- Senior Research Fellow appointed February 2009
- Recreational Fisher Behaviour Survey (funding from DOF)
- FRDC TRF 2009/081 (Awarded April 2010)

Outputs of Relevance to Management

- Analysis and modelling of recreational fisher behaviours important in developing and applying appropriate management measures for the WCDS fishery
- Important to anticipate and incorporate the responses of the different recreational fisher user groups ('auids', 'occasionals', 'food', 'sport') into management framework for WC demersal scale fish fishery
- Model developed to provide input into determining the socially and economically "optimal" allocation of WC demersal fish between commercial charter boat and recreational users over time



4.5.3. Developing baseline socio-economic assessments and projecting future scenarios of WC demersal fisheries – pilot study of approaches

Management Question being addressed

- What are the current and future economic and social values generated under a range of different management arrangements associated with WC demersal scalefish fisheries?

Science Quality/Major Outcomes to date

- Postdoc appointed August 2009
- Recreational Fisher Behaviour Survey (funding from DOF)
- FRDC TRF 2009/081 – covers recreational, commercial and charter

Outputs of Relevance to Management:

- Improved understanding of the social and economic values of WCDS fishery framework; helps incorporate relevant socio-economic aspects into the EBFM risk management framework
- Enables long-term monitoring programs of changes in socio-economic values



Today's presentations

4.5.1 Review of methods for completing social and economic assessments for use in EBFM

Jenny Shaw & Sarah Metcalf (DoF)

4.5.2 Modelling recreational fishing behaviour

Paul McLeod & Seamus McElroy (UWA)

4.5.3 Pilot socio-economic assessment of West Coast demersal scalefish fisheries (commercial & recreational)

Malcolm Tull, Joseph Christensen & Seamus McElroy
(Murdoch/UWA)