

Supporting Information

Availability of Non-Market Values to Inform Decision-Making in Australian Fisheries and Aquaculture: An Audit and Gap Analysis

Louisa Coglan ^{1,*}, Sean Pascoe ² and Gabriela Scheufele ²

¹ QUT School of Economics and Finance, Brisbane QLD 4001, Australia; l.coglan@qut.edu.au

² CSIRO Oceans and Atmosphere, St Lucia QLD 4067, Australia; sean.pascoe@csiro.au, (S.P.); gabriela.scheufele@csiro.au (G.S.)

Australian non-market valuation studies

The studies between 2010 and 2020 identified in the literature review are given in
Error! Reference source not found..

Table S1. Australian non-market valuation studies identified in the literature, 2010–2020.

State	Reference	Year	Method
Recreational fishing experience			
NSW	Pascoe [1]	2019	Travel cost
Queensland	Prayaga, et al. [2]	2010	Travel cost
	Windle, et al. [3]	2017	Travel cost
	Pascoe, et al. [4]	2014	Travel cost
South Australia	Rolfe and Dyack [5]	2011	Travel cost (contingent behaviour)
Western Australia	Raguragavan, et al. [6]	2013	Travel cost (random utility)
Victoria	Ezzy, et al. [7]	2012	Travel cost
	Hunt, et al. [8]	2017	Travel cost
Marginal value of a fish (recreational)			
Queensland	Pascoe, et al. [4]	2014	Travel cost
Western Australia	Raguragavan, et al. [6]	2013	Travel cost (random utility)
Tasmania	Yamazaki, et al. [9]	2013	Contingent valuation
Value of fish and fishing to Indigenous Australian communities			
Northern Territory	Sangha, et al. [10]	2019	Replacement value
Northern Territory	Jackson, et al. [11]	2011	Replacement values
Northern Territory, Queensland and Western Australia	Zander and Stratton [12]	2010	Choice experiment
Value of having a commercial fishing fleet to tourism and local communities			
Queensland	Paredes [13]	2020	Travel cost (contingent behaviour)
	Pascoe, et al. [14].	2016	Choice experiment
Non-extractive uses			
Queensland	Rolfe and Gregg [15]	2012	Travel cost
	Zhang, et al. [16]	2015	Travel cost
	Windle, et al. [3]	2017	Travel cost
	Prayaga [17]	2017	Travel cost
NSW	Pascoe [1]	2019	Travel cost
Protected species			
Queensland	Farr, et al. [18]	2014	
Marine habitats			
Queensland	Davis, et al. [19]	2019	Choice experiment
NSW	Pascoe, et al. [20]	2019	Choice experiment
	Taylor and Creighton [21]	2018	Production function

State	Reference	Year	Method
Victoria	Huang, et al. [22] Water quality	2020	Choice experiment
NSW	Schrobbback, et al. [23]	2018	Production function
South Australia	Hatton MacDonald, et al. [24]	2015	Choice experiment

References

- Pascoe, S. Recreational beach use values with multiple activities. *Ecol. Econ.* **2019**, *160*, 137–144.
- Prayaga, P.; Rolfe, J.; Stoeckl, N. The value of recreational fishing in the Great Barrier Reef, Australia: A pooled revealed preference and contingent behaviour model. *Mar. Policy* **2010**, *34*, 244–251.
- Windle, J.; Rolfe, J.; Pascoe, S., Assessing recreational benefits as an economic indicator for an industrial harbour report card. *Ecol. Indic.* **2017**, *80*, 224–231.
- Pascoe, S.; Doshi, A.; Dell, Q.; Tonks, M.; Kenyon, R., Economic value of recreational fishing in Moreton Bay and the potential impact of the marine park rezoning. *Tour. Manag.* **2014**, *41*, 53–63.
- Rolfe, J.; Dyack, B., Valuing Recreation in the Coorong, Australia, with Travel Cost and Contingent Behaviour Models. *Econ. Rec.* **2011**, *87*, 282–293.
- Raguragavan, J.; Hailu, A.; Burton, M., Economic valuation of recreational fishing in Western Australia: statewide random utility modelling of fishing site choice behaviour. *Aust. J. of Agric. and Resour. Econ.* **2013**, *57*, 539–558.
- Ezzy, E.; Scarborough, H.; Wallis, A., Recreational Value of Southern Bluefin Tuna Fishing. *Econ. Pap.: A J. of Appl. Econ. and policy* **2012**, *31*, 150–159.
- Hunt, T. L.; Scarborough, H.; Giri, K.; Douglas, J. W.; Jones, P., Assessing the cost-effectiveness of a fish stocking program in a culture-based recreational fishery. *Fish. Res.* **2017**, *186*, 468–477.
- Yamazaki, S.; Rust, S.; Jennings, S.; Lyle, J.; Frijlink, S., Valuing recreational fishing in Tasmania and assessment of response bias in contingent valuation*. *Aust. J. of Agric. and Resour. Econ.* **2013**, *57*, 193–213.
- Sangha, K. K.; Stoeckl, N.; Crossman, N.; Costanza, R., A state-wide economic assessment of coastal and marine ecosystem services to inform sustainable development policies in the Northern Territory, Australia. *Mar. Policy* **2019**, *107*, 103–595.
- Jackson, S.; Finn, M.; Woodward, E.; Featherston, P., Indigenous socio-economic values and river flows. *Darwin, NT: CSIRO Ecosyst. Sci.* **2011**.
- Zander, K. K.; Stratton, A., An economic assessment of the value of tropical river ecosystem services: Heterogeneous preferences among Aboriginal and non-Aboriginal Australians. *Ecol. Econ.* **2010**, *69*, 2417–2426.
- Paredes, S. The value of fisheries for tourism and the local coastal community. Queensland University of Technology, Brisbane, QLD, Australia, 2020.
- Pascoe, S.; Innes, J.; Tobin, R.; Stoeckl, N.; Paredes, S.; Dauth, K. *Beyond GVP: The value of inshore commercial fisheries to fishers and consumers in regional communities on Queensland's east coast.*; FRDC Project No 2013-301; FRDC: Canberra, 2016.
- Rolfe, J.; Gregg, D., Valuing beach recreation across a regional area: The Great Barrier Reef in Australia. *Ocean. Coast. Manag.* **2012**, *69*, 282–290.
- Zhang, F.; Wang, X. H.; Nunes, P. A. L. D.; Ma, C., The recreational value of gold coast beaches, Australia: An application of the travel cost method. *Ecosyst. Serv.* **2015**, *11*, 106–114.
- Prayaga, P., Estimating the value of beach recreation for locals in the Great Barrier Reef Marine Park, Australia. *Econ. Anal. Policy* **2017**, *53*, 9–18.
- Farr, M.; Stoeckl, N.; Alam Beg, R., The non-consumptive (tourism) ‘value’ of marine species in the Northern section of the Great Barrier Reef. *Mar. Policy* **2014**, *43*, 89–103.
- Davis, K. J.; Burton, M.; Rogers, A.; Spencer-Cotton, A.; Pandit, R., Eliciting Public Values for Management of Complex Marine Systems: An Integrated Choice Experiment. *Mar. Resour. Econ.* **2019**, *34*, 1–21.
- Pascoe, S.; Doshi, A.; Kovac, M.; Austin, A., Estimating coastal and marine habitat values by combining multi-criteria methods with choice experiments. *Ecosyst. Serv.* **2019**, *38*, 100–951.
- Taylor, M. D.; Creighton, C., Estimating the Potential Fishery Benefits from Targeted Habitat Repair: a Case Study of School Prawn (*Metapenaeus macleayi*) in the Lower Clarence River Estuary. *Wetl.* **2018**, *38*, 1199–1209.
- Huang, B.; Young, M. A.; Carnell, P. E.; Conron, S.; Ierodiaconou, D.; Macreadie, P. I.; Nicholson, E., Quantifying welfare gains of coastal and estuarine ecosystem rehabilitation for recreational fisheries. *Sci. Total. Environ.* **2020**, *710*, 134–680.
- Schrobbback, P.; Pascoe, S.; Coglan, L., Quantifying the Economic Impact of Climate Change and Market Dynamics: The Case of Australia’s Sydney Rock Oyster Industry. *Mar. Resour. Econ.* **2018**, *33*, 155–175.
- Hatton MacDonald, D.; Ardeshtiri, A.; Rose, J. M.; Russell, B. D.; Connell, S. D., Valuing coastal water quality: Adelaide, South Australia metropolitan area. *Mar. Policy* **2015**, *52*, 116–124.