

Appendix A: Supplemental Figures

Many recreational fisheries, including red snapper, are managed through bag limits to help ensure the fishery is not depleted. An alternative management option used in some fisheries is where fishermen pay a fee per fish they retain. For the next two choices, assume that there is an alternative fishery management in place where there are no limits on the number of red snapper you can retain (i.e. no bag limits), but rather a fee for each red snapper retained.

The fee would be collected by the headboat operators as people leave the vessel at port. The money collected by the headboat operators would be used to fund habitat enhancement projects in the Gulf of Mexico and Gulf of Mexico fishery research.

How acceptable do you find the fishery management option where there are no limits on the number of red snapper you can retain (i.e. no bag limits), but rather a fee for each red snapper retained?

	Definitely Acceptable	Somewhat Acceptable	Neither Acceptable nor Unacceptable	Somewhat Unacceptable	Definitely Unacceptable
Management option with a fee for each red snapper retained	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Figure A1: Fee acceptability question, showing the version of the question where fees are used to fund research and habitat enhancement.

Features	Trip 1	Trip 2	No trip
Total expected number of red snapper caught per trip	1 red snapper	7 red snapper	Do something else, but do not go saltwater fishing on a headboat
Cost per each retained red snapper	\$50	\$10	
Number of other species caught per trip	8 fish	2 fish	
Congestion	Spacious	Crowded	
Price for full day trip	\$80	\$200	

I would choose...

Trip 1

Trip 2

No Trip

Figure A2: A choice experiment question from the online survey in which respondents faced retention fees.

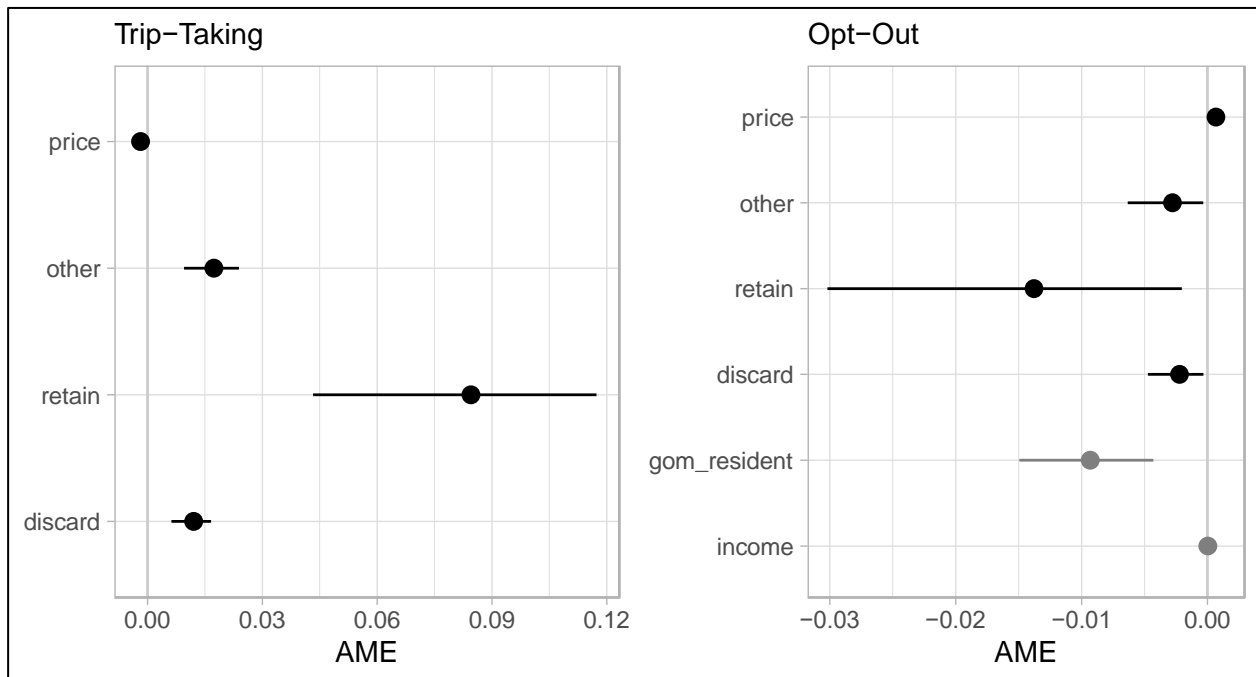


Figure A3: Calculated using model 3 (Table 3). Mean and coverage (5th to 95th percentiles) of average marginal effects on trip choice and opt-out behavior for the bag limit questions.¹

¹ The bars around the average marginal effect point estimates represent the range of all average marginal effect estimates across 1,000 sets of individual-specific draws for each random coefficient. The 5th percentiles, means, and 95th percentiles of AMEs for congest are: Trip-taking behavior: (-0.237, -0.184, -0.131); Opt-out behavior: (0.007, 0.042, 0.086).

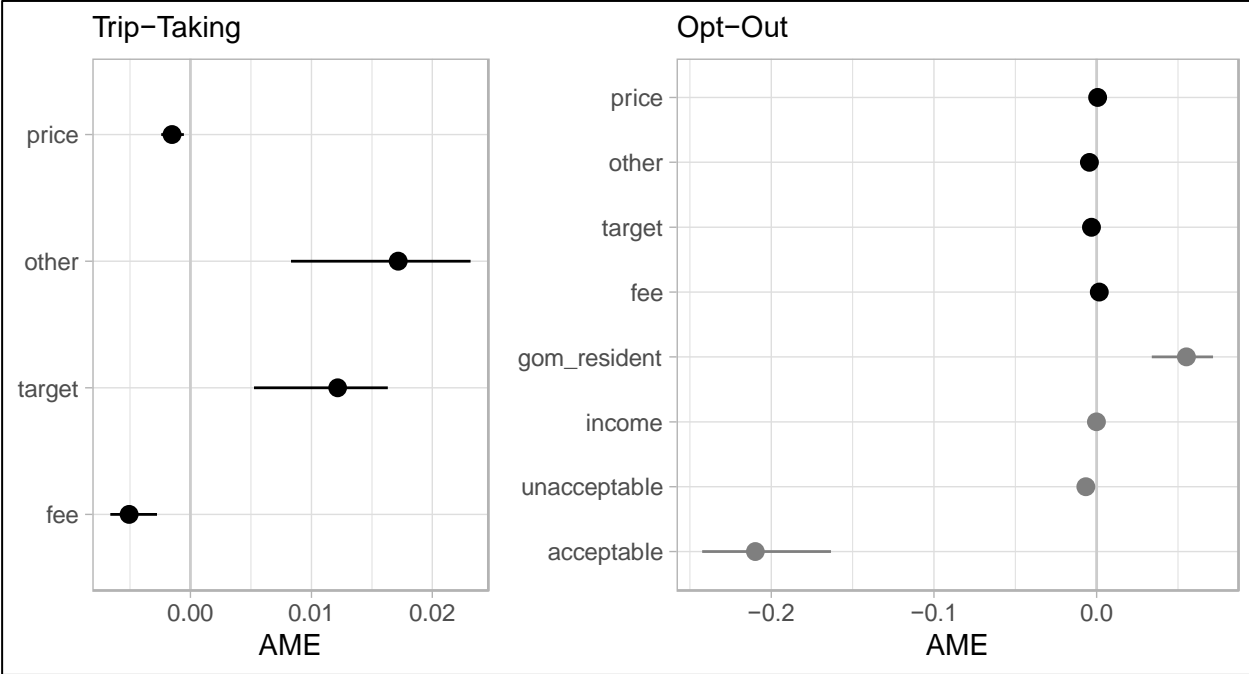


Figure A4: Calculated using model 3 (Table 3). Mean and coverage (5th to 95th percentiles) of average marginal effects on trip choice and opt-out behavior for the fee version questions.²

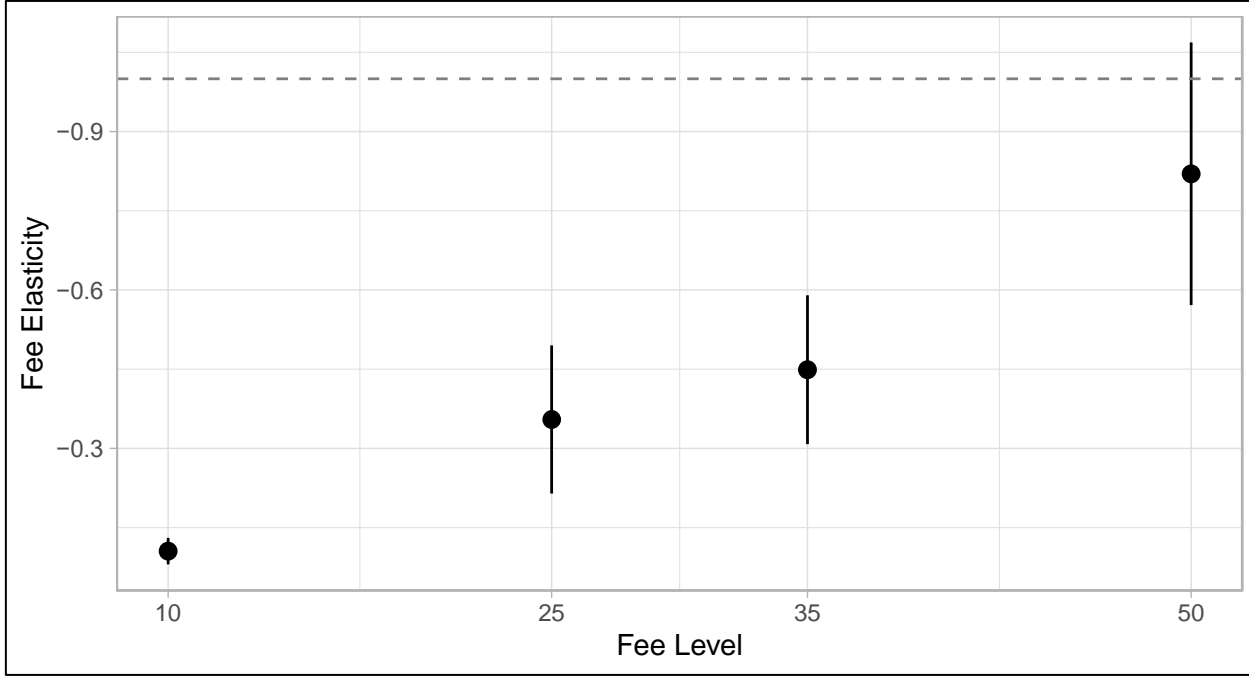


Figure A5: Fee elasticity of intensive margin retention demand at the four randomized fee levels with 95% error bars.

² The bars around the average marginal effect point estimates represent the range of all average marginal effect estimates across 1,000 sets of individual-specific draws for each random coefficient. The 5th percentiles, means, and 95th percentiles of AMEs for congest are: Trip-taking behavior: (-0.223, -0.171, -0.103); Opt-out behavior: (0.015, 0.058, 0.102).