

Appendix 1. Model results and sensitivity analysis

Table A.1. Conditional logit on discrete choice experiment data for different fishing methods and fishing avidity levels

	Figure 5	Figure 6 (a)			Figure 6 (b)		
	All fishers	Potters	Divers	Multi	Low avidity	Mid avidity	High avidity
Bag limit	0.517 (<0.001)***	0.502 (<0.001)***	0.433 (0.003)**	0.573 (<0.001)***	0.616 (<0.001)***	0.437 (<0.001)***	0.517 (<0.001)***
Season length	0.246 (<0.001)***	0.28 (<0.001)***	0.207 (0.111)	0.205 (0.011)*	0.339 (<0.001)***	0.193 (0.023)*	0.171 (0.068)^
Maximum seasonal catch limit	0.044 (0.072)^	0.059 (0.085)^	0.164 (0.014)*	-0.023 (0.574)	0.109 (0.004)**	0.027 (0.523)	-0.044 (0.374)
Size limit	0.076 (0.209)	0.061 (0.468)	-0.008 (0.961)	0.125 (0.229)	-0.067 (0.475)	0.124 (0.270)	0.298 (0.010)**
Penalties for non-compliant acts	0.103 (0.297)	0.102 (0.460)	0.057 (0.833)	0.131 (0.433)	0.186 (0.223)	-0.184 (0.299)	0.32 (0.106)
Constant	-1.979 (<0.001)***	-2.041 (<0.001)***	-2.045 (<0.001)***	-1.864 (<0.001)***	-2.395 (<0.001)***	-1.657 (<0.001)***	-1.877 (<0.001)***
Number of observations	2,574	1,314	342	918	1,080	828	666
Number of subjects	143	72	19	51	60	46	37
Log-likelihood	-1459.7	-740.7	-193.7	-521.7	-582.5	-486.7	-377.7
McFadden's pseudo-R2	0.109	0.114	0.11	0.107	0.153	0.077	0.109
AIC	2931.3	1493.5	399.39	1055.4	1176.9	985.34	767.43

Note: This table reports the estimates of the coefficients and p -values in parentheses from different model specifications. p -values: <0.001 =***, <0.01 = **, <0.05 = *, <0.1 = ^

Table A.2. Sensitivity analysis: different model specifications

	Baseline	Subsample					
	(Figure 5)	Mixed logit	Non-potters	Support	Non-support	Effective	Non-effective
Bag limit	0.517 (<0.001)***	0.657 (<0.001)***	0.533 (<0.001)***	0.495 (<0.001)***	0.472 (<0.001)***	0.450 (<0.001)***	0.618 (<0.001)***
Season length	0.246 (<0.001)***	0.230 (0.013)*	0.210 (0.002)**	0.519 (<0.001)***	0.223 (0.003)**	0.438 (<0.001)***	0.211 (0.007)**
Maximum seasonal catch limit	0.044 (0.072)^	-0.007 (0.918)	0.028 (0.416)	0.179 (<0.001)***	0.016 (0.688)	0.052 (0.180)	-0.008 (0.834)
Size limit	0.076 (0.209)	0.089 (0.347)	0.091 (0.290)	0.091 (0.440)	-0.141 (0.140)	0.208 (0.026)*	-0.233 (0.021)*
Penalties for non-compliant acts	0.103 (0.297)	0.135 (0.431)	0.106 (0.452)	0.012 (0.951)	0.065 (0.683)	-0.010 (0.948)	0.192 (0.234)
Constant	-1.979 (<0.001)***	-2.133 (<0.001)***	-1.917 (<0.001)***	-2.788 (<0.001)***	-1.608 (<0.001)***	-2.277 (<0.001)***	-1.723 (<0.001)***
Number of observations	2,574	2,574	1260	702	1,008	1044	990
Number of subjects	143	143	70	39	56	58	55
Log-likelihood	-1459.7	-1457.0	-718.4	-361.1	-597.3	-569.5	-570.8
McFadden's pseudo-R2	0.109	0.104	0.104	0.192	0.069	0.143	0.094
AIC	2931.3	2938.0	1448.8	734.19	1206.6	1151.0	1153.6

Note: This table reports the estimates of the coefficients and p -values in parentheses from different model specifications. p -values: <0.001 = ***, <0.01 = **, <0.05 = *, <0.1 = ^. Non-potters correspond to the subsample of divers and multi-use fishers; Support correspond to the subsample of fishers who are supportive to more than three management tools in the phone survey; Non-support correspond to the subsample of fishers who are supportive to less than three management tools; Effective corresponds to the subsample of fishers who perceive more than three management tools effective; and non-effective corresponds to the sub-sample of fishes who perceive less than three management tools effective.

Table A.3. Sensitivity analysis: conditional logit model with interaction terms

	Baseline (Figure 5)	Method	Avidity	Support	Effective
Bag limit	0.517 (<0.001)***	0.532 (<0.001)***	0.514 (<0.001)***	0.523 (<0.001)***	0.550 (<0.001)***
Season length	0.246 (<0.001)***	0.252 (<0.001)***	0.270 (<0.001)***	0.205 (<0.001)***	0.199 (<0.001)***
Maximum seasonal catch limit	0.044 (0.072)^	0.026 (0.315)	0.069 (0.013)*	0.044 (0.204)	0.045 (0.198)
Size limit for females	0.076 (0.209)	0.087 (0.181)	-0.004 (0.958)	-0.137 (0.087)^	-0.207 (0.014)*
Penalties for non-compliant acts	0.103 (0.297)	0.112 (0.292)	0.032 (0.780)	0.054 (0.600)	0.069 (0.498)
<i>Divers, High avid, Support or Effective</i>					
× Bag limit		-0.111 (0.451)	0.023 (0.844)	0.009 (0.870)	-0.062 (0.248)
× Season length		-0.056 (0.672)	-0.082 (0.427)	0.069 (0.164)	0.070 (0.176)
× Maximum seasonal catch		0.133 (0.052)^	-0.106 (0.053)^	-0.012 (0.696)	-0.003 (0.931)
× Size limit for females		-0.098 (0.569)	0.307 (0.023)*	0.371 (<0.001)***	0.436 (<0.001)***
× Penalties		-0.057 (0.843)	0.293 (0.200)		
Constant	-1.979 (<0.001)***	-1.977 (<0.001)***	-1.986 (<0.001)***	-1.945 (<0.001)***	-1.971 (<0.001)***
Number of observations	2,574	2,574	2,574	2,430	2484
Number of subjects	143	143	143	135	138
Log-likelihood	-1459.7	-1457.8	-1455.4	-1370.8	-1394.6
McFadden's pseudo-R2	0.109	0.110	0.112	0.163	0.149
AIC	2931.3	2937.5	2932.9	2761.7	2809.2

Note: This table reports the estimates of the coefficients and p -values in parentheses from different model specifications. p -values: $<0.001 = ***$, $<0.01 = **$, $<0.05 = *$, $<0.1 = ^$

Table A.4. Trade-offs fishers are willing to make between a reduction in bag limit by one lobster and a change in season length, maximum seasonal catch, minimum size limit for females, and penalties for non-compliant acts.

	All fishers	Potters	Divers	Multi	Low Avidity	Mid Avidity	High Avidity
Season length	3.80	4.46	3.83	2.87	4.40	3.54	2.65
Max seasonal catch	0.34	0.47	1.51	-0.16	0.71	0.25	-0.34
Size limit for females	-0.73	-0.61	0.09	-1.09	0.54	-1.42	-2.88
Increase in penalties	-9.96	-10.16	-6.60	-11.40	-15.11	21.10	-30.99