

Appendix 2: Alternative regression models describing homeowner mitigation behavior.

Table A2.1. Estimated coefficients of an alternative binary logit models describing respondents self-reported likelihood of conducting mitigations activities within past five years, with biophysical explanatory variables included (N= 284).

Explanatory variables	With respondent-reported perceived risk variable [†]		With model-predicted risk variable [‡]	
	Estimated coefficient	Wald chi-squared	Estimated coefficient	Wald chi-squared
Constant	-0.217	0.07	-0.152	0.04
PERCEIVED RISK [†]	1.362*	3.20	--	--
PERCEIVED RISK [‡]	--	--	2.725**	4.41
BURN PROBABILITY	0.649	0.31	1.357	1.18
CONDITIONAL FLAME LENGTH	-0.101	0.44	-0.200	1.40
WILDFIRE IN NEIGHBORHOOD	1.573**	5.60	1.701***	6.67
ADVICE: FAMILY OR NEIGHBOR	0.295	0.74	0.260	0.57
ADVICE: LOCAL GOVERNMENT	0.937***	7.46	0.794**	5.13
ADVICE: LOCAL FIRE AWARENESS GROUP	1.793***	8.08	1.514**	5.44
PROPERTY OWNER	1.370**	5.71	1.220**	4.64
TENURE	0.030*	2.97	0.029*	2.93
AGE	-0.028**	4.55	-0.025*	3.57
HOA RULES	1.147***	7.85	1.035**	6.47
Summary statistics:	Log-likelihood = 244.17 $\chi^2 = 63.78, df = 11, P < 0.0001$		Log-likelihood = 241.98 $\chi^2 = 65.96, df = 11, P < 0.0001$	

Note: The *, **, and *** indicate statistical significance at the 10%, 5% and 1% levels.

[†] Computed as PERCEIVED RISK = PERCEIVED CHANCE OF WILDFIRE * PERCEIVED CHANCE OF DAMAGE.

[‡] Variable value predicted using estimated coefficients reported in Table 5.

Table A2.2. Estimated coefficients of an ordered logit model describing respondents self-reported likelihood of any of several mitigation activities [†] within past five years (N= 246).

Explanatory variables	Without wildfire risk variables		With wildfire risk variables	
	Estimated coefficient	t-statistic	Estimated coefficient	Wald chi-squared
Intercept 7	-4.977***	-7.52	-4.562***	42.84
Intercept 6	-3.370***	-5.37	-3.281***	24.28
Intercept 5	-2.566***	-4.24	-2.140***	10.91
Intercept 4	-1.853***	-3.11	-1.422**	4.93
Intercept 3	-1.073*	-1.82	-0.634	0.99
Intercept 2	-0.286	-0.49	0.160	0.06
Intercept 1	0.923	1.49	1.381**	4.26
PERCEIVED RISK ‡	1.118**	2.00	1.356**	4.98
BURN PROBABILITY	--	--	0.195	0.06
CONDITIONAL FLAME LENGTH	--	--	-0.082	2.24
WILDFIRE IN NEIGHBORHOOD	0.646**	2.01	0.622*	3.76
ADVICE: FAMILY OR NEIGHBOR	0.382	1.63	0.349	2.15
ADVICE: LOCAL GOVERNMENT	0.761***	3.09	0.760***	9.50
ADVICE: LOCAL FIRE AWARENESS GROUP	1.086***	3.60	1.069***	12.15
PROPERTY OWNER	0.373	0.85	0.445	1.02
TENURE	0.030***	2.56	0.028**	5.53
AGE	0.007	0.72	0.006	0.35
HOA RULES	0.014	0.06	0.014	0.00
Summary statistics:	Log-likelihood = 920.032 $\chi^2=72.01, df=9, P<0.0001$		Log-likelihood = 917.155 $\chi^2=70.13, df=11, P<0.0001$	

Note: The *, **, and *** indicate statistical significance at the 10%, 5% and 1% levels.

[†] Activities include planting fire-resistant plants, planting trees and shrubs at least 15 feet apart, pruning branches of trees within 85 feet of home, reducing the density of trees within 100 feet of the home, cleaning roof, gutters, and surrounding vegetation to avoid accumulation of needles, leaves, and dead plants, stacking firewood and lumber at least 30 feet from the home, and using nonflammable building materials, such as tile, slate, or stone.

‡ Variable value predicted using estimated coefficients reported in Table 5.