

Short Note

Survival estimates for the invasive American bullfrog

Paige E. Howell^{1,*}, Erin Muths², Brent H. Sigafus³, Blake R. Hossack⁴

1 - Warnell School of Forestry & Natural Resources, University of Georgia, Athens, GA, USA, ORCID: 0000-0002-5911-2870

2 - U.S. Geological Survey, Fort Collins Science Center, Fort Collins, CO, USA, ORCID: 0000-0002-5498-3132

3 - U.S. Geological Survey, Southwest Biological Science Center, Tucson, AZ, USA, ORCID: 0000-0002-7422-8927

4 U.S. Geological Survey Northern Rocky Mountain Science Center, Wildlife Biology Program, University of Montana, Missoula, MT, USA, ORCID: 0000-0001-7456-9564

*Corresponding author; e-mail: paige.e.howell@gmail.com

Supplementary material

Table S1.

Number of visits, annual water status (Y=flooded, N=dry) and number of captures at three sites at Arivaca Cienega, Arizona, where we conducted capture mark-recapture surveys for American bullfrogs (*Lithobates catesbeianus*). Geographic coordinates (UTM, Zone 12N) for sites are: SITE 3A (469361m E, 3492903m N), SITE 3B (469370m E, 3492921m N) and SITE 160 (468910m E, 3492928m N).

	SITE 3A					SITE 3B					SITE 160				
Years	2013	2014	2015	2016	2017	2013	2014	2015	2016	2017	2013	2014	2015	2016	2017
# of surveys	9	2	1	4	3	9	1	1	1	1	9	1	1	1	1
water present	Y	Y	Y	Y	Y	Y	N	N	N	N	Y	N	Y	N	N
# captures	12	31	0	12	22	23	0	0	0	0	16	0	5	0	0

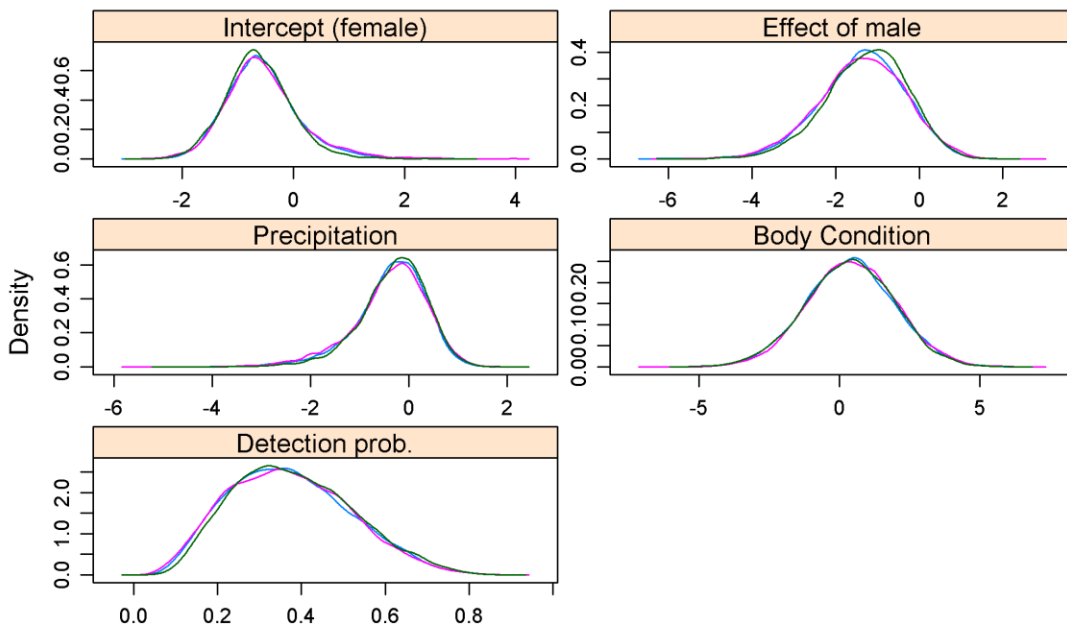
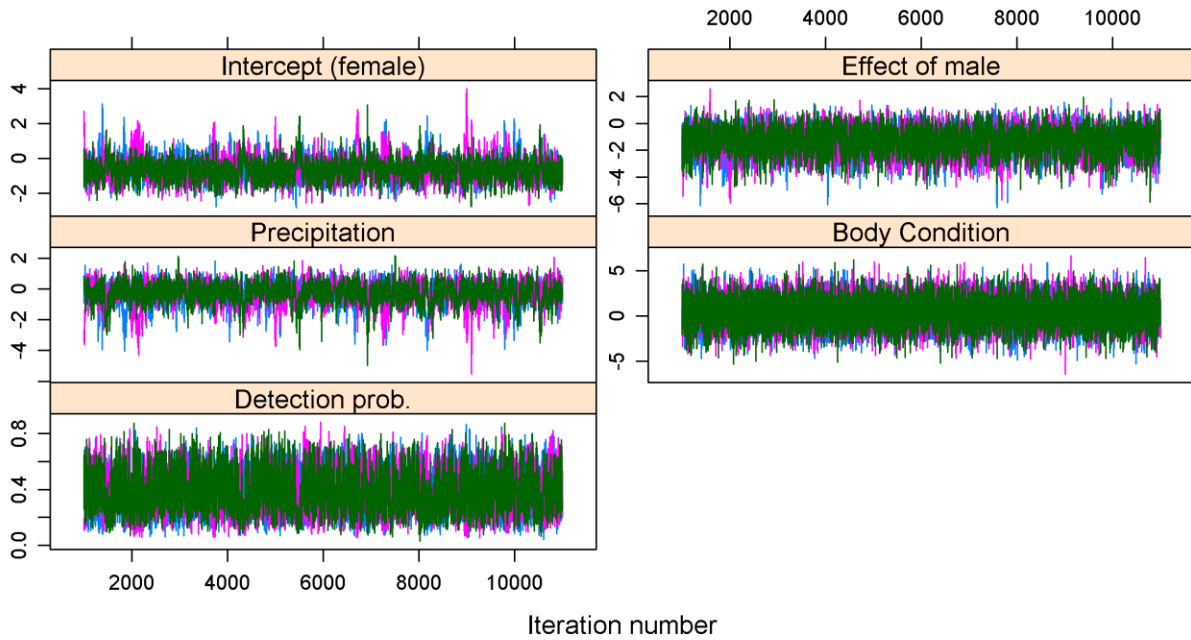


Figure S1. Posterior density and trace plots for our model evaluating the influence of sex, precipitation and body condition on annual apparent survival of post-metamorphic bullfrogs in an invasive population in Arizona, USA.