

[10.1071/WR21183](https://doi.org/10.1071/WR21183)

Wildlife Research

Supplementary Material

Mammal use of undercrossings is influenced by openness and proximity to riparian corridors

Alex J. Jensen^{A,}, John D. Perrine^A, Andrew Schaffner^B, Robert Brewster^A, Anthony J. Giordano^C, Morgan Robertson^D, and Nancy Siepel^D*

^ABiological Sciences Department, California Polytechnic State University, San Luis Obispo, CA 93407-0401, USA.

^BStatistics Department, California Polytechnic State University, San Luis Obispo, CA 93407-0401, USA.

^CS.P.E.C.I.E.S. – Society for the Preservation of Endangered Carnivores and their International Ecological Study, PO Box 7403, Ventura, CA 93006, USA.

^DCalifornia Department of Transportation, 50 Higuera Street, San Luis Obispo, CA 93401, USA.

*Correspondence to: Alex J. Jensen Biological Sciences Department, California Polytechnic State University, San Luis Obispo, CA 93407-0401, USA Email: alexjojensen@gmail.com

Mammal use of undercrossings is influenced by openness and proximity to riparian corridors

Supplemental

Supplemental Table 1

Site characteristics and survey effort for each undercrossing along Highway 101 near San Luis Obispo, California, USA.

Type	Site Name	Month begin	Month end	Survey Nights	Height (m)	Width (m)	Length (m)	Openness ((l x w) / h)	Within Fence?
Culvert	C1	Sep-2012	Sep-2017	1746	2.44	1.83	42.57	0.10	N
Culvert	C2	Sep-2012	Oct-2015	1071	2.69	2.67	51.21	0.14	N
Culvert	C3	Aug-2012	Sep-2017	1866	1.22	2.44	51.82	0.06	Y
Culvert	C4	Aug-2012	Oct-2015	1163	2.96	4.02	49.07	0.24	Y
Culvert	C5	Jan-2013	Jul-2016	1301	0.99	1.32	66.22	0.02	Y
Culvert	C6	Sep-2012	Jul-2016	1422	1.07	1.22	30.12	0.04	Y
Culvert	C7	Aug-2012	Sep-2017	1856	3.57	3.66	43.97	0.30	N
Culvert	C8	Aug-2012	Sep-2017	1849	2.21	2.53	47.24	0.12	N
Culvert	C9	Aug-2012	Sep-2017	1808	3.69	2.52	38.20	0.24	N
Underpass	U10	Jul-2012	Jul-2014	711	9.14	54.86	38.10	13.17	N
Underpass	U11	Aug-2012	Mar-2013	207	6.10	33.53	15.70	13.02	N

Supplemental Table 2

Mean (\pm standard error) detections per month for each undercrossing along Highway 101 near San Luis Obispo, CA. The species are ordered alphabetically.

Site	Months	Badger	Bear	Bobcat	Coyote	Deer	Gray Fox	Opossum	Puma	Raccoon	Red Fox	Skunk	Wild Pig
C1	56	0	0.1 \pm 0.03	5.3 \pm 0.8	0.8 \pm 0.4	0.2 \pm 0.1	0.5 \pm 0.2	5.3 \pm 0.8	0	2.2 \pm 0.5	0	2.0 \pm 0.7	0
C2	34	0	0.5 \pm 0.2	8.8 \pm 1.5	0.1 \pm 0.1	0.03 \pm 0.03	4.1 \pm 0.8	0.9 \pm 0.3	0.4 \pm 0.2	0.2 \pm 0.1	0	4.5 \pm 0.7	0
C3	57	0	0.5 \pm 0.1	1.6 \pm 0.2	0.04 \pm 0.02	0.1 \pm 0.1	10.1 \pm 1.7	1.6 \pm 0.2	0.2 \pm 0.1	1.2 \pm 0.2	0	1.8 \pm 0.6	0
C4	37	0	1.2 \pm 0.4	0.2 \pm 0.1	0.3 \pm 0.2	0.03 \pm 0.03	0.9 \pm 0.7	4.7 \pm 1.1	0	5.6 \pm 1.1	0	0.1 \pm 0.04	0
C5	43	0	0.3 \pm 0.2	0.05 \pm 0.03	0	0	12.8 \pm 3.5	7.2 \pm 2.1	0	4.0 \pm 0.8	0	2.6 \pm 0.5	0
C6	47	0	0.4 \pm 0.2	1.2 \pm 0.4	0.1 \pm 0.04	0	5.1 \pm 1.7	4.2 \pm 1.0	0	2.9 \pm 0.7	0	1.9 \pm 0.4	0
C7	61	0.4 \pm 0.2	0.02 \pm 0.02	4.8 \pm 1.3	9.3 \pm 1.3	0.1 \pm 0.03	3.2 \pm 0.9	0.5 \pm 0.2	0.02 \pm 0.02	3.7 \pm 0.6	0.02 \pm 0.02	1.5 \pm 0.3	0.03 \pm 0
C8	60	1 \pm 0.2	0	1.7 \pm 0.5	1.8 \pm 0.4	0	0.03 \pm 0.02	0.03 \pm 0.02	0.03 \pm 0.02	1.2 \pm 0.2	0.1 \pm 0.1	0.4 \pm 0.2	0.03 \pm 0
C9	58	0.1 \pm 0.1	0	0.1 \pm 0.1	0.6 \pm 0.2	0.1 \pm 0.03	0	0	0	1.2 \pm 0.2	0.5 \pm 0.2	0.1 \pm 0.1	0.02 \pm 0
U10	23	0.03 \pm 0.03	0.6 \pm 0.2	1.6 \pm 0.4	0.2 \pm 0.1	9.8 \pm 2.1	2.4 \pm 0.6	1.5 \pm 0.5	0.1 \pm 0.04	0.3 \pm 0.2	0.3 \pm 0.2	0	0
U11	8	0.5 \pm 0.4	0	1.9 \pm 0.8	1.3 \pm 0.9	3.9 \pm 2.3	1.0 \pm 0.4	15.1 \pm 4.2	0.3 \pm 0.2	2.0 \pm 0.9	1.5 \pm 0.8	1.5 \pm 0.9	17.3 \pm 6.1