

## SUPPORTING INFORMATION: APPENDIX S3

### Ecosphere

“Floodplains provide important amphibian habitat despite multiple ecological threats”

M. Holgerson, A. Duarte, M. Hayes, M. Adams, J. Tyson, K. Douville, and A. Strecker

Table S1. Detection and occupancy rates for the six amphibian species we observed compared to other studies within the native range of our five native species. Occupancy refers to whether a species was detected or not regardless of whether detection probability was estimated.

Species	Detection ( $p$ )	Occupancy (PAO or $\psi$ )	Region	Study
Long-toed salamander	0.74	0.72	Chehalis River, WA	<i>This study</i>
	0.83	0.44	Willamette Valley, OR	Rowe et al. 2019
	0.74	0.31	Northern Rockies	Pilliod 2010
	0.68	0.53	Glacier National Park	Corn et al. 2005
		0.57	Willamette Valley, OR	Pearl et al. 2005
		0.63	Puget Sound, WA	Richter and Azous 1995
		0.62	Idaho	Monello and Wright 1999
Northern red-legged frog	0.88	0.84	Chehalis River, WA	<i>Our study</i>
	0.95	0.55	Willamette Valley, OR	Rowe et al. 2019
		0.38 – 0.43	Willamette Valley, OR	Adams et al. (2011)
		0.47	Willamette Valley, OR	Pearl et al. 2005
		0.79	Puget Sound, WA	Richter and Azous 1995
Northwestern salamander	0.63	0.92	Chehalis River, WA	<i>This study</i>
	0.17	0.60	Willamette Valley, OR	Rowe et al. 2019
		0.25	Willamette Valley, OR	Pearl et al. 2005
		0.84	Puget Sound, WA	Richter and Azous 1995
Pacific treefrog	0.62	0.83	Chehalis River, WA	<i>Our study</i>
	0.94	0.83	Willamette Valley, OR	Rowe et al. 2019
		0.71	Willamette Valley, OR	Pearl et al. 2005
		0.63	Puget Sound, WA	Richter and Azous 1995
Rough-skinned newt	0.44	0.43	Chehalis River, WA	<i>Our study</i>
	0.33	0.53	Willamette Valley, OR	Rowe et al. 2019
		0.69	Willamette Valley, OR	Pearl et al. 2005
		0.21	Puget Sound, WA	Richter and Azous 1995
		0.08	Idaho	Monello and Wright 1999

American bullfrog	0.37	0.67	Chehalis River, WA	<i>Our study</i>
	0.39	0.57	Willamette Valley, OR	Rowe et al. 2019
		0.41	Willamette Valley, OR	Pearl et al. 2005
		0.26	Puget Sound, WA	Richter and Azous 1995