

**TABLE S4** | The results of the canonical-correlation analysis (CCA) are presented for sites, environmental conditions, and species.

	CCA 1	CCA 2
Eigenvalue	0.76	0.22
Constrained inertia (%)	67.81	19.81
Cumulative (%)	67.81	87.62
Total inertia (%)	48.54	14.18
Cumulative (%)	48.54	62.72
<b>Sites</b>		
Dam spillway dry hot	-1.04	-0.98
Dam spillway rainy	-1.30	-1.73
Dam spillway dry cold	-0.45	-0.07
Spring-fed dry hot	-0.92	1.92
Spring-fed rainy	-0.68	1.70
Spring-fed dry hot	0.62	0.36
Drainage confluence dry hot	1.19	-0.51
Drainage confluence rainy	1.24	-0.31
Drainage confluence dry cold	1.33	-0.37
<b>Environmental conditions</b>		
River velocity	0.66	-0.20
River width	-0.33	0.41
pH	0.87	0.09
DO	0.12	-0.04
Temperature	0.01	0.53
<b>Species</b>		
<i>Pseudoxiphophorus bimaculatus</i>	-1.06	-0.50
<i>Poeciliopsis gracilis</i>	-0.43	-0.01
<i>Poecilia reticulata</i>	1.04	-0.09
<i>Poecilia mexicana</i>	-0.45	0.88
<i>Cyprinus sp.</i>	-0.97	1.96
<i>Goodea atripinnis</i>	0.82	-0.08
<i>Notropis calientis</i>	-0.98	1.98



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