

(n=9) [Río Valles, SLP]; P5962 (n=8) [Ciudad Valles, SLP]; P4888 (n=10) [Río San Pedro, Hgo.]; P4951 (n=10) [Río Atlapexco, Hgo.]; P5920 (n=10) [Río Claro, Hgo.]; P5061 (n=10) [Río Manzanares, Gto.]; P5853 (n=10) [Río Conca, Qro.]; P6521 (n=10) [Río Venados, Hgo.]; P6580 (n=10) [Las Adjuntas, Qro.].

DIGITAL APPENDIX 2

Lower pharyngeal jaws variation of the species included in the genus in *Herichthys*



H. bartoni



H. labridens



H. pame



H. steindachneri



H. pantostictus



H. molango



H. deppii



H. tepehua



H. cyanoguttatus



H. carpintis



H. tamasopoensis



H. minckleyi

DIGITAL APPENDIX 3

CVA and PCA for the sympatric and syntopic species *H. labridens* and *H. bartoni* for the shape of the lower pharyngeal jaw (up), and CVA and PCA for the sympatric species *H. pame*, *H. steindachneri* and *H. tamasopoensis* for the shape of the lower pharyngeal jaw (down)