Supplemental Table 1. *P*-values for chi-squared test of Hardy-Weinberg equilibrium (HWE) for lineages of *Etheostoma kennicotti* and *Etheostoma cumberlandicum*. Bold values indicate significant departure from HWE after Bonferroni correction for multiple comparisons (alpha = 0.05).

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Microsatellite Locus | Green River | Upper Tennessee River | Lower Tennessee River | Lower Ohio -Clarks River | Laurel River | *Etheostoma cumberlandicum* |
| Eken10 | 1.1E+02 | 5.1E+01 | **4.5E-02** | 1.5E+02 | 3.3E+01 | 1.4E+02 |
| Eken12 | 1.2E+02 | 5.9E-01 | **2.2E-06** | **3.4E-03** | **8.3E-07** | 6.4E+01 |
| Eken3 | 9.2E+01 | 1.7E+00 | **1.8E-10** | **1.3E-02** | 3.4E+01 | 1.1E+02 |
| Eken8 | 1.3E+02 | 2.5E+01 | **0.0E+00** | **2.4E-03** | 3.6E+01 | 8.0E+01 |
| Eken14 | 7.8E+01 | 3.5E-01 | **0.0E+00** | 1.2E-01 | 8.8E+01 | 1.8E+01 |
| Eken15 | 6.8E+01 | **2.9E-02** | **0.0E+00** | 1.4E+02 | 1.2E+01 | 7.3E+00 |
| Eken18 | 2.3E-01 | 3.4E-01 | **0.0E+00** | **5.2E-04** | 3.3E+00 | **1.0E-05** |
| Eken21 | 1.5E+02 | **4.0E-02** | 1.3E+00 | 2.7E-01 | 2.4E+01 | 1.2E+02 |
| Eken24 | 4.2E+00 | **5.3E-07** | **6.7E-09** | **3.0E-04** | 1.0E+02 | 1.5E+02 |
| Eken28 | 1.3E+01 | 1.9E+00 | **5.5E-04** | 6.3E+01 | 7.1E-02 | 2.9E+01 |
| Eken29 | 4.7E+01 | **3.4E-04** | 9.6E-02 | 2.8E-01 | **5.0E-13** | **2.5E-03** |
| Eken38 | 1.5E+02 | **9.7E-03** | **2.3E-10** | 1.5E+02 | 1.3E+02 | 1.5E+02 |
| Eken19 | 8.5E+01 | 1.7E+00 | **5.6E-09** | 3.1E+01 | 1.1E+02 | 4.5E+00 |
| Eken32 | 2.2E+01 | 1.2E+02 | **1.3E-07** | **2.2E-03** | 1.5E+02 | 6.3E+01 |
| Eken49 | 1.5E+02 | 4.7E+01 | **3.2E-11** | 1.1E+02 | 1.2E+02 | 1.3E+02 |
| Eken22 | 4.1E+01 | **2.9E-02** | 6.3E+00 | 3.9E+00 | **5.9E-06** | 6.0E+01 |
| Eken27 | 1.4E+02 | 4.7E+00 | **0.0E+00** | **7.7E-06** | 5.9E+01 | 1.0E+02 |
| Eken36 | 9.1E-02 | **4.2E-06** | **0.0E+00** | **2.0E-05** | **1.7E-04** | **3.4E-06** |
| Eken39 | 9.7E+01 | 4.9E+00 | **1.3E-09** | 6.8E+01 | 1.5E+02 | 1.2E+02 |
| Eken41 | 3.0E+01 | 8.1E-01 | **4.5E-08** | 5.3E-02 | 2.1E+00 | 5.8E-02 |
| Eken42 | 1.4E+02 | 6.5E-01 | 4.7E-01 | 1.1E+02 | 1.5E+02 | 1.7E-01 |
| Eken52 | 1.2E+01 | **3.4E-02** | **9.0E-10** | 3.5E+01 | 1.3E-01 | 5.9E+01 |
| Eken59 | 6.2E+00 | **4.1E-02** | **1.7E-14** | 1.9E+00 | **6.1E-11** | 8.4E+00 |
| Eken60 | 1.5E+02 | **1.1E-05** | **0.0E+00** | 2.0E+00 | **4.1E-04** | 1.5E+02 |
| Eken58 | 1.4E+02 | 2.2E+01 | **1.1E-06** | 1.5E+02 | 3.4E+01 | 7.9E+01 |