TABLE S1 | Genetic indexes of five populations of *Prochilodus lineatus* from the Grande River basin. Number of individuals (*N*), alleles (N_a) and effective alleles (N_e), expected and observed heterozygosity (H_e, H_o), inbreeding coefficient (F_{IS}) and probability test for deviation from expected Hardy-Weinberg (HWE) proportions with *P*-value = 0.05 (*significant after Bonferroni adjustment *P* = 0.0071; *K*=7). S1, Grande River immediately downstream from the Porto Colômbia dam; S2, Grande River downstream from the confluence with the Pardo River; S3, Pardo River downstream from the confluence with the Mogi Guaçu River; S4, Mogi Guaçu River, in the region of Emas' fall; S5, Pardo River upstream from the confluence with the Mogi Guaçu River. Par = *Prochilodus argenteus* microsatellites Pli = *Prochilodus lineatus* microsatellites

Loci	S1	S2	S3	S4	S5
Par 80					
N	29	30	30	30	28
N_a	17	17	16	14	11
N_e	11.681	12.500	9.574	10.056	8.167
H_o	0.862	0.867	0.967	0.833	0.821
H_e	0.914	0.920	0.896	0.901	0.878
F_{IS}	0.0747	0.0748	-0.0625	0.0915	0.082
HWE	0.2434	0.1884	0.9672	0.3586	0.000*
Par 86					
N	29	26	29	29	30
N_a	9	10	15	12	7
N_e	2.137	3.087	4.083	5.741	1.967
H_o	0.414	0.462	0.517	0.586	0.400
H_e	0.532	0.676	0.755	0.826	0.492
F_{IS}	0.239	0.3348	0.3307	0.3061	0.2027
HWE	0.0197	0.000*	0.000*	0.001*	0.000*
Pli 30					
N	29	30	30	30	30
N_a	22	23	22	20	14
N_e	13.141	16.364	12.414	14.063	11.180
H_o	0.690	0.867	0.833	0.833	0.933
H_e	0.924	0.939	0.919	0.929	0.911
F_{IS}	0.2699	0.0938	0.1104	0.1196	-0.0081
HWE	0.000*	0.4118	0.0386	0.0123	0.000*
Pli 43					
N	29	30	30	30	30
N_a	16	20	21	19	14
N_e	8.205	13.953	14.876	10.909	8.451
Loci	**S1**	**S2**	**S3**	**S4**	**S5**
H_o	0.690	0.800	0.800	0.867	0.733
H_e	0.878	0.928	0.933	0.908	0.882
F_{IS}	0.2313	0.1548	0.1589	0.0628	0.1847
HWE	0.0044*	0.0936	0.000*	0.6521	0.000*

TABLE S1 | (Continued)

Pli 61					
N	29	30	30	30	30
N_a	4	4	4	3	3
N_e	2.526	2.332	2.110	2.187	1.998
H_o	0.655	0.567	0.633	0.567	0.433
H_e	0.604	0.571	0.526	0.543	0.499
F_{IS}	-0.0672	0.0247	-0.1875	-0.0271	0.149
HWE	0.2417	0.3043	0.0968	0.8304	0.1726
Par 66					
N	29	28	30	30	28
N_a	8	7	8	10	6
N_e	3.235	4.308	3.719	5.325	3.588
H_o	0.448	0.571	0.600	0.733	0.679
H_e	0.691	0.768	0.731	0.812	0.721
F_{IS}	0.3664	0.2727	0.1957	0.1139	0.0773
HWE	0.0002*	0.0053*	0.2741	0.0161	0.000*
Par 83					
N	28	27	29	26	28
N_a	9	13	13	13	11
N_e	6.701	8.055	8.410	7.682	7.193
H_o	0.714	0.889	0.828	0.769	1.000
H_e	0.851	0.876	0.881	0.870	0.861
F_{IS}	0.1781	0.004	0.0782	0.1349	-0.1437
HWE	0.1845	0.5482	0.0334	0.0977	0.000*
Par 85					
N	29	30	30	30	30
N_a	20	20	20	19	14
N_e	12.647	13.846	14.754	13.740	8.257
H_o	0.759	0.767	0.967	0.900	0.900
H_e	0.921	0.928	0.932	0.927	0.879
F_{IS}	0.1932	0.19	-0.02	0.0463	-0.0071
HWE	0.0236	0.0465	0.5714	0.3849	0.000*
Pli 34					
N	29	29	30	30	30
Loci	**S1**	**S2**	**S3**	**S4**	**S5**
N_a	3	4	4	6	3
N_e	2.925	2.709	2.936	3.523	2.228
H_o	0.414	0.483	0.467	0.567	0.367
H_e	0.658	0.631	0.659	0.716	0.551
F_{IS}	0.3863	0.2512	0.3078	0.2248	0.3496
HWE	0.0192	0.1507	0.1051	0.041	0.038

TABLE S1 | (Continued)

Pli 60					
N	29	30	30	30	30
N_a	11	11	12	12	10
N_e	3.447	3.956	3.742	3.383	4.119
H_o	0.586	0.600	0.500	0.633	0.533
H_e	0.710	0.747	0.733	0.704	0.757
F_{IS}	0.1912	0.2133	0.3328	0.1177	0.3111
HWE	0.268	0.130	0.002*	0.118	0.000*
Total					
N	28.9 ± 0.1	29.00 ± 0.47	29.80 ± 0.13	29.50 ± 0.40	29.40 ± 0.31
N_a	11.9 ± 2.07	12.90 ± 2.17	13.50 ± 2.09	12.80 ± 1.77	9.30 ± 1.37
N_e	6.66 ± 1.41	8.11 ± 1.74	7.66 ± 1.58	7.66 ± 1.37	5.71 ± 1.05
H_o	0.62 ± 0.05	0.69 ± 0.05	0.71 ± 0.06	0.73 ± 0.04	0.68 ± 0.07
H_e	0.77 ± 0.05	0.80 ± 0.04	0.80 ± 0.04	0.81 ± 0.04	0.74 ± 0.05
F_{IS}	0.20629 ± 0.132	0.16141 ± 0.110	0.12445 ± 0.177	0.11905 ± 0.093	0.11975 ± 0.151

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