

AT1

Sampling sites in the area of influence of the Ituango hydroelectric project between 2010 and 2018

Environmen ts	Site	Code site	Elevatio n (mamsl)	Geographic data (WGS84)	
				Longitude	Latitude
Lower basin streams (LBS)	Quebrada Valdivia parte baja	E22c	154	-75.39242	7.28701
	Quebrada Valdivia parte media	E19c	141	-75.39258	7.28590
Lower Cauca River basin (LCR)	Achí	E32	19	-74.55302	8.56894
	Cáceres	E11	75	-75.35590	7.58267
	El Doce	E10	98	-75.30617	7.44260
	Guaranda	E31	20	-74.53420	8.47097
	Jardín	E12	63	-75.25902	7.74825
	Punta Cartagena	E38	16	-74.47457	8.89372
	Río Cauca sector Nechí	E18	30	-74.77586	8.10074
	San Jacinto del Cauca	E25	28	-74.75443	8.20210
Middle basin creeks (MBC)	Tres Cruces	E35	17	-74.51911	8.70418
	La Guamera	E09	135	-75.44500	7.24968
	Quebrada Burundá	QAE17	739	-75.68235	7.12149
	Quebrada Chirí	QAE16	577	-75.66245	7.09011
	Quebrada La Aguada	QAE04	476	-75.83764	6.68231
	Quebrada La Barbuda	QAE02	493	-75.81100	6.63041
	Quebrada La Chorquina	QAE01	487	-75.81765	6.59515
	Quebrada La Honda	QAE06	541	-75.86097	6.78600
	Quebrada La Jerigua	QAE09	558	-75.83762	6.92925
	Quebrada La Niquia	QAE08	524	-75.83476	6.86443
	Quebrada La Sucia	QAE05	467	-75.85384	6.71592
Middle basin streams (MBR)	Quebrada Santa María	QAE14	478	-75.75786	7.03011
	Quebrada Sardinas	QAE15	472	-75.73998	7.10313
	Río Espíritu Santo parte baja	E24	149	-75.43864	7.25121
	Río Espíritu Santo parte media	E23	529	-75.51664	7.15268
	Río Ituango parte baja	E21	364	-75.66765	7.14567
	Río Ituango parte media	E20	573	-75.68951	7.17162
	Río San Andrés	E04	245	-75.68781	7.08423
	Río Espíritu Santo parte alta	E22	1823	-75.50455	7.00628
	Río Ituango parte alta	E19	543	-75.69849	7.18415
	Quebrada Juan García	QAE03	513	-75.82578	6.65562
Quebrada La Pená	QAE13	554	-75.79413	7.05784	
Quebrada Las Cuatro	QAE07	507	-75.85610	6.86090	

	Quebrada Peque parte alta	QAE10	1036	-75.90457	7.01600
	Quebrada Peque parte baja	QAE12	440	-75.82025	7.00066
	Quebrada Peque parte media	QAE11	903	-75.88143	7.01336
Middle Cauca River basin (MCR)	Bolombolo	E01	535	-75.84093	5.96718
	El Aro	E08	225	-75.55196	7.20278
	Gurimán	E06	221	-75.60747	7.17404
	Ituango cauce principal	E05	231	-75.66094	7.13767
	Palestina	E07	212	-75.57918	7.19218
	Puente Real	E02	451	-75.81795	6.51405
	Liborina	E3.1	444	-75.83448	6.67606
	Sabanalarga	E3	351	-75.84247	6.86374
Swamp (SWP)	Barrio Chino	E14	46	-75.09415	8.00980
	Ciénaga Ciritongo	E28	19	-74.54261	8.30835
	Ciénaga El Floral	E34	12	-74.46168	8.73203
	Ciénaga Grande	E29	19	-74.49453	8.33257
	Ciénaga La Caimanera	E30	19	-74.49279	8.27085
	Ciénaga La Ilusión	E15	41	-75.09079	8.02069
	Ciénaga La Panela	E36	15	-74.45268	8.87740
	Ciénaga La Raya	E27	19	-74.51889	8.31838
	Ciénaga Las Culebras	E26	21	-74.53910	8.33914
	Ciénaga Nueva	E33	11	-74.46201	8.69821
	Ciénaga Palomar	E16	37	-74.97574	8.00296
	Ciénaga Piqué	E37	15	-74.44851	8.86149
	Margento	E17	37	-74.96436	8.02148
	Río Man	E13	45	-75.20753	7.95647

AT2

List of recorded species and number of collected specimens in each environment, in the area of influence of the Ituango hydroelectric project between 2010 and 2018

Species/morphospecies	Voucher specimens - CIUA	MCR	MBS	MBC	LCR	LBS	SWP	Total
Acestrorhynchidae								
<i>Gilbertolus alatus</i> (Steindachner 1878)	5768, 6726, 7103, 7121	2			66		1 191	1 259
Anostomidae								
<i>Abramites eques</i> (Steindachner 1878)	6140, 7100, 7140, 7250				2		49	51
<i>Leporellus vittatus</i> (Valenciennes 1850)	5624, 5675, 6936, 6976	7	7	36	6		14	70
<i>Leporinus striatus</i> Kner, 1858	6953, 7236	1	2		5	1	22	31

<i>Megaleporinus muyscorum</i> (Steindachner 1900)	5573, 5695, 5855, 5857, 6125, 6354, 6443, 6502, 6808, 6849, 7227, 7286	66	46	67	616	1	898	1 694
Apteronotidae								
<i>Apteronotus eschmeyeri</i> Maldonado-Ocampo, Severi & Mendes 2004	5703, 6384, 6570, 6887, 7305	327	32	14	7		29	409
<i>Apteronotus magdalenensis</i> (Miles 1945)	6399						1	1
<i>Apteronotus mariae</i> (Eigenmann & Fisher 1914)	6054	17	1	5	18		54	95
<i>Apteronotus rostratus</i> (Meek & Hildebrand 1913)		1						1
Aspredinidae								
<i>Bunocephalus colombianus</i> Eigenmann 1912	6544, 7076				2		7	9
<i>Dupouyichthys sapito</i> Schultz, 1944							1	1
Astroblepidae								
<i>Astroblepus chapmani</i> (Eigenmann 1912)		1	115	61				177
<i>Astroblepus frenatus</i> Eigenmann 1918			6	1				7
<i>Astroblepus grivalvii</i> Humboldt 1805	6657, 7176	2		33				35
<i>Astroblepus guentheri</i> (Boulenger 1887)			17	61				78
<i>Astroblepus homodon</i> (Regan 1904)		14	84	115				213
<i>Astroblepus micrescens</i> Eigenmann 1918			11	94				105
<i>Astroblepus nicefori</i> Myers 1932			1	1				2
<i>Astroblepus</i> sp. Humboldt 1805	5618, 5622, 5625, 5699, 5710, 5713, 5718, 5897, 5973, 6001, 6024, 6310, 6326, 6333,	6	258	234	10			508

	6573, 6841, 6929, 7189								
Auchenipteridae		3			1 071		4 637	5 711	
	5779, 6077, 6147, 6699, 6949, 7239, 7240, 7265, 7277m 7283, 7284, 7309 5909, 5927, 5946, 6053, 6076, 6107, 6119, 6130, 6138, 6145, 6191, 6209, 6221, 6247, 6484, 6757, 6828, 7011, 7022, 7095, 7253, 7290	3			190		340	533	
<i>Ageneiosus pardalis</i> Lütken 1874									
<i>Trachelyopterus insignis</i> (Steindachner 1878)					881		4 297	5 178	
Bryconidae									
	5605, 5606, 5613, 5623, 5636, 5643, 5702, 5704, 5841, 5970, 6003, 6111, 6320, 6659, 6667, 6734, 6891, 6934, 7087 6371, 6377, 6606, 6935, 6962, 6965, 7081, 7313, 7314 5641, 5681, 5726, 5740, 5829, 5979, 5980, 6069, 6159, 6249, 6442, 6527, 6652, 7271 5834, 5836, 6059, 6066, 6357, 6402,	70	688	816	13	2	5	1 594	
<i>Brycon henni</i> Eigenmann, 1913									
<i>Brycon moorei</i> Steindachner, 1878		27	69	20	7	2	18	143	
<i>Brycon rubricauda</i> Steindachner, 1879		7	91	118			1	217	
<i>Salminus affinis</i> Steindachner, 1880		5	38	25	10	1	17	96	

	6444, 6551, 6607, 6612, 6648, 6780, 6945, 6959, 6966, 7005, 7044							
Callichthyidae								
<i>Callichthys fabricioi</i> Román-Valencia, Lehmann A. & Muñoz 1999						45		45
<i>Hoplosternum magdalenae</i> Eigenmann, 1913	5794, 6246, 6260, 6409, 6559, 6704, 6823, 6869, 7090, 7173, 7225, 7270	5			8		761	774
Cetopsidae								
<i>Cetopsis othonops</i> (Eigenmann 1912)		2	1		14	2	6	25
Characidae								
<i>Argopleura magdalenensis</i> (Eigenmann 1913)	5581, 5762, 5824, 5884, 5887, 5892, 5996, 6116, 6581, 6690, 6806, 7169, 7180	3 842	205	379	669	81	860	6 036
<i>Astyanax caucanus</i> (Steindachner 1879)		11	79	11	248	14	2 502	2 865
<i>Astyanax filiferus</i> (Eigenmann 1913)		1			1			2
<i>Astyanax magdalenae</i> Eigenmann & Henn 1916	5593, 5598, 5785, 5796, 5812, 6040, 6103, 6204, 6291, 6352, 6415, 6436, 6477, 6503, 6691, 6742, 6772, 7010, 7032, 70657102, 7115, 7214, 7248	364	41	63	2 097	83	5 384	8 032
<i>Astyanax microlepis</i> Eigenmann 1913	7144, 7150, 7160	26	4				1	31

<i>Astyanax</i> sp. Baird & Girard 1854	5587, 5591, 5609, 5610, 5648, 5683, 5685, 5709, 5790, 5890, 5899, 5976, 6108, 6115, 6230, 6257, 6262, 6270, 6290, 6316, 6413, 6530, 6574, 6635, 6773, 6807, 6836, 6842, 6886, 6924, 6933, 6941, 6968, 7053, 7061, 7091, 7111, 7116	640	75	726	1 055	45	9 184	11 725
<i>Creagrutus affinis</i> Steindachner 1880	5715, 6611	33		22	12		27	94
<i>Creagrutus brevipinnis</i> Eigenmann, 1913	5597, 5676, 5800, 5810, 5977, 5989, 6007, 6281, 6454, 6467, 6653, 6669, 6682, 6689, 6917	440	95	306	172	162	395	1 570
<i>Creagrutus caucanus</i> Eigenmann, 1913	5888	140	24	112	34		148	458
<i>Creagrutus magdalenae</i> Eigenmann, 1913	5580, 5619, 5634, 5821, 5826, 5900, 5924, 5999, 6047, 6105, 6188, 6236, 6266, 6279, 6323, 6661, 6688, 6892, 6895, 6913, 7048	182	29	94	65	148	230	748
<i>Cynopotamus magdalenae</i> (Steindachner 1879)	5761, 5844, 5868, 5913, 6052, 6151, 6152, 6525, 6526, 6538,	1	5	4	320		416	746

	6637, 6710, 6721, 6771, 6907, 7071, 7113							
<i>Genycharax tarpon</i> Eigenmann, 1912	5963, 6308	3						3
<i>Gephyrocharax melanocheir</i> Eigenmann, 1912	5788, 6280				6		6	12
<i>Hemibrycon boquiae</i> (Eigenmann 1913)		35	33	100		4	59	231
<i>Hemibrycon caucanus</i> (Eigenmann 1913)	5626, 5655, 5684, 5772, 5823, 5876, 5978, 5988, 6006, 6011, 6185, 6271, 6311, 6322, 6329, 6660, 6874, 6942, 7049, 7193, 7196, 7197, 7205	2	18	47			11	78
<i>Hemibrycon dentatus</i> (Eigenmann 1913)		1	3	25	1			30
<i>Hyphessobrycon poecilioides</i> Eigenmann, 1913		1					220	221
<i>Hyphessobrycon proteus</i> Eigenmann, 1913	5612, 5627, 5687, 5954, 5974, 5986, 6000, 6010, 6284, 6319, 6595, 6656, 6923, 6972	31	4	5	3		284	327
<i>Microgenys minuta</i> Eigenmann, 1913	5584, 6670, 6846, 6975	8			1		5	14
<i>Roeboides dayi</i> (Steindachner 1878)	5637, 5717, 5783, 5791, 5817, 5893, 5922, 5947, 5987, 5998, 6017, 6023, 6089, 6102, 6112, 6123, 6126, 6200, 6216, 6394,	19	6	4	310	1	7 154	7 494

	6414, 6422, 6489, 6532, 6537, 6547, 6575, 6638, 6701, 6810, 6831, 6878, 6896, 6904, 7020, 7026, 7030, 7079, 7089, 7109					
<i>Saccoderma hastata</i> (Eigenmann 1913)				24	520	544
Cichlidae						
<i>Andinoacara latifrons</i> (Steindachner 1878)	5600, 5631, 5801, 5807, 5917, 5929, 6018, 6041, 6292, 6426, 6512, 6577, 6626, 6723, 6750, 6802, 6805, 6833, 7056, 7077	12		94	840	946
<i>Caquetaia kraussii</i> (Steindachner 1878)	5602, 5611, 5615, 5686, 5720, 5733, 5747, 5804, 5908, 5949, 5968, 5993, 6015, 6035, 6064, 6136, 6210, 6224, 6293, 6330, 6338, 6367, 6416, 6418, 6464, 6487, 6491, 6513, 6517, 6826, 6837, 6844, 6870, 6902, 6990, 6999, 7025, 7035	23	1	104	2 766	2 894
<i>Geophagus steindachneri</i> Eigenmann & Hildebrand, 1922	6946, 6967, 7218, 7237, 7238, 7297	15		1	41	57

<i>Kronoheros umbriferus</i> (Meek & Hildebrand 1913)			1			24	25
<i>Oreochromis mossambicus</i> (Peters 1852)						1	1
<i>Oreochromis niloticus</i> (Linnaeus 1758)	5674, 5712, 5714, 5730, 5904, 6012, 6070, 6427, 6550, 6555, 6629, 7006, 7019	40		1		102	143
<i>Oreochromis</i> sp. Günther, 1889		2	1			121	124
Crenuchidae							
<i>Characidium caucanum</i> Eigenmann 1912			2	12		7	21
<i>Characidium phoxocephalum</i> Eigenmann, 1912			1				1
Ctenoluciidae							
<i>Ctenolucius hujeta</i> (Valenciennes 1850)	5744, 5872, 5874, 5921, 5936, 5948, 6036, 6068, 6127, 6273, 6301, 6397, 6501, 6518, 6740, 6752, 6803, 6825, 6850	8	1	102		1 316	1 427
Curimatidae							
<i>Curimata mivartii</i> Steindachner, 1878	6166, 6192, 6193, 6205, 6400, 6441, 6534, 6601, 6755, 6851, 6881, 6992, 6994, 7018, 7031, 7070	1	2	1	149	711	864
<i>Cyphocharax magdalenae</i> (Steindachner 1878)	6404, 6410, 6425, 6437, 6446, 6505, 6506, 6564, 6762, 6788, 6800, 6822,	3	5		919	20 538	21 465

	6866, 6894, 6995, 7034, 7074, 7097, 7106, 7108, 7114, 7217							
Doradidae								
	5764, 5856, 5932, 6144, 6146, 6235, <i>Centrochir crocodili</i> (Humboldt 1821)	266			830			1 096
	6481, 6695, 6737, 6751, 6795, 7007, 7098, 7249, 7273, 7274							
Engraulidae								
	<i>Anchoa trinitatis</i> (Fowler 1915)	1			28			29
	6797, 6952, 7241, 7254, 7255							
Erythrinidae								
	5915, 6051, 6401, 6412, 6482, 6510, <i>Hoplias malabaricus</i> (Bloch 1794)	14			376			390
	6514, 6562, 6622, 6713, 6955, 6957, 6964							
Heptapteridae								
	<i>Cetopsorhamdia boquillae</i> Eigenmann, 1922		1					1
	5616, 5633, <i>Cetopsorhamdia nasus</i> Eigenmann & Fisher, 1916	3	17	48	2	13		83
	6014, 6029, 6309, 6335, 6358, 6686, 6919, 6930, 6977, 6979							
	<i>Imparfinis nemacheir</i> (Eigenmann & Fisher 1916)		1		5	18		24
	6022, 6462, 6817							
	<i>Pimelodella chagresi</i> (Steindachner 1876)	11			47	13	187	258
	5592, 5596, <i>Pimelodella</i> <i>macrocephala</i> (Miles 1943)	6			18	29		53
	5652, 5708, 5802, 5984, 6046, 6131, 6285, 6470, 6811, 6853							

<i>Rhamdia guatemalensis</i> (Günther 1864)	5628, 5639, 5660, 5672, 5691, 5696, 6214, 6222, 6345, 6673, 6705, 6813, 6905, 6928, 6954, 6956	5		2	65		169	241
Loricariidae								
<i>Chaetostoma brevilabiatum</i> Dahl, 1942	5664, 5812, 6008, 6021, 6250, 6268, 6340, 6816, 6880, 6884, 6890, 6898, 6939, 7047, 7085	91	45	56	11	6	10	219
<i>Chaetostoma fischeri</i> Steindachner, 1879		66	19	18	7	3	7	120
<i>Chaetostoma milesi</i> Fowler, 1941		14	3	3	2			22
<i>Chaetostoma thomsoni</i> Regan, 1904	5575, 5603, 5640, 5694, 5697, 5789, 5805, 5859, 5880, 5928, 5965, 6058, 6067, 6251, 6347, 6450, 6889, 7041	131	36	34	7	14	6	228
<i>Cordylancistrus pijao</i> Provenzano & Villa- Navarro 2017	6037				1			1
<i>Crossoloricaria cephalaspis</i> Isbrücker 1979	7326			2	38	4	50	94
<i>Dasylicaria filamentosa</i> (Steindachner 1878)	5766, 5786, 5939, 6048, 6122, 6423, 6474, 6504, 6557, 6568, 6709, 6862, 6864, 6900, 7302, 7315, 7316, 7325	1			71		515	587
<i>Hypostomus hondae</i> (Regan 1912)	5574, 5576, 5734, 5742,	241	13	24	15		35	328

	5803, 6157, 6177, 6180, 6254, 6350, 6370, 6651, 6859, 6879, 6882, 7088							
<i>Isorineloricaria tenuicauda</i> (Steindachner 1878)	5585, 6189, 6432	434		7	12	4	35	492
<i>Lasiancistrus caucanus</i> Eigenmann, 1912	5663, 5828, 6666, 6685 5586, 5757, 5847, 5861, 5867, 5944, 6050, 6155, 6207, 6231, 6233, 6241, 6269, 6421,					1		1
<i>Loricariichthys brunneus</i> (Hancock 1828)	6541, 6578, 6583, 6665, 6697, 6708, 6720, 6732, 6778, 6783, 6784, 6791, 6865, 6909, 6927, 7038, 7072	40			17	1	203	261
<i>Panaque cochliodon</i> (Steindachner 1879)		5						5
<i>Pterygoplichthys undecimalis</i> (Steindachner 1878)	6097, 6100, 6101, 6337	9		2	1		12	24
<i>Rineloricaria magdalenae</i> (Steindachner 1879)	5719, 5945, 6234, 6529, 7223, 7256, 7324	25	1		18		173	217
<i>Spatuloricaria gymnogaster</i> (Eigenmann & Vance 1912)	5799, 5863, 6039, 6057, 6141, 6298, 6304, 6718, 6719, 6899, 6920	3		2	20		32	57
<i>Sturisomatichthys aureus</i> (Steindachner 1900)	7233, 7234, 7235, 7257, 7260, 7304, 7308				2		3	5

<i>Sturisomatichthys leightoni</i> (Regan 1912)	5583, 5822, 6033, 6256, 6277, 6456, 6471, 6580, 6717, 6861, 7213	1			1		7	9
<i>Sturisomatichthys panamensis</i> (Eigenmann & Eigenmann 1889)	5763, 5798, 5811, 5820, 6083	11	2	5	22	1	77	118
Megalopidae								
<i>Megalops atlanticus</i> Valenciennes, 1847							2	2
Osphronemidae								
<i>Trichopodus pectoralis</i> Regan, 1910	5792, 5797, 6287, 6455, 6712, 6838, 6893, 7228, 7300, 7303	2			66		821	889
Parodontidae								
<i>Parodon magdalenensis</i> Londoño-Burbano, Román-Valencia & Taphorn, 2011	5594, 5629, 5671, 5673, 6274, 6318, 6324, 6359, 6360, 6931, 6969, 6983	6	1	26	6	6	14	59
<i>Saccodon dariensis</i> (Meek & Hildebrand 1913)	5677, 6981			1				1
Pimelodidae								
<i>Megalonema xanthum</i> Eigenmann, 1912		6	13	2	45		23	89
<i>Pimelodus grosskopfii</i> Steindachner, 1879	5595, 5651, 5658, 5700, 5745, 5825, 5905, 5991, 6027, 6199, 6201, 6227, 6313, 6341, 6390, 6419, 6678, 6855, 6901, 6940, 7002, 7013, 7107, 7251, 7262, 7281	440	101	80	1 849	2	1 053	3 525
<i>Pimelodus yuma</i> Villa-Navarro & Acero P., 2017	5665, 5782, 5819, 5842, 5850, 5940, 6044, 6117,	76	34	37	528		1 281	1 956

	6219, 6408, 6466, 6714, 6775, 6832, 6853, 6996, 7003, 7222, 7229, 7266, 7268, 7269, 7282							
<i>Pseudoplatystoma magdaleniatum</i> Buitrago- Suárez & Burr, 2007	5951, 6511, 6707, 6730, 6747, 7051, 7289	1	2	1	51		142	197
<i>Sorubim cuspicaudus</i> Littmann, Burr & Nass, 2000	5865, 5918, 6043, 6603, 6614, 6621, 6641, 6644, 6739, 6765, 6781, 6950, 6963, 7264, 7291, 7299	4	18	5	163		309	499
Poeciliidae								
<i>Poecilia caucana</i> (Steindachner 1880)	6114, 7306	433	51	373	21		9	887
Potamotrygonidae								
<i>Potamotrygon magdalenae</i> (Duméril 1865)	6938, 6951				11		75	86
Prochilodontidae								
<i>Ichthyoelephas longirostris</i> (Steindachner 1879)	5735, 5736, 5746, 5752, 5832, 5862, 6062, 6069, 6171, 6353, 6355, 6452, 6588, 6588, 6598, 6615, 6639, 6646, 6650, 6662, 6987, 7052, 7082, 7298 5743, 5750, 5755, 5728, 5831, 5840,	22	43	15	15	7	102	204
<i>Prochilodus magdalenae</i> Steindachner, 1879	5843, 5845, 5870, 5911, 5930, 6056, 6060, 6099,	290	117	76	541	26	1 265	2 315

	6143, 6174, 6175, 6356, 6374, 6378, 6407, 6448, 6453, 6567, 6586, 6597, 6600, 6602, 6642, 6647, 6731, 6756, 6787, 6857, 6906, 7021, 7023, 7050, 7058, 7063, 7083, 7093, 7112							
Pseudopimelodidae								
<i>Pseudopimelodus atricaudus</i> Restrepo-Gómez, Rangel-Medrano, Márquez & Ortega-Lara 2020	7242, 7244, 7246, 7287, 7310, 7319, 7320, 7321, 7322, 7323				109	3	94	206
<i>Pseudopimelodus magnus</i> Restrepo-Gómez, Rangel-Medrano, Márquez & Ortega-Lara 2020	7275, 7292, 7295, 7307, 7311	40	13	6				59
Sciaenidae								
<i>Plagioscion magdalenae</i> (Steindachner 1878)	6055, 6081, 6160, 6206, 6655, 6700, 6711, 6758, 6947			6	16		140	162
Serrasalminidae								
<i>Colossoma macropomum</i> (Cuvier 1816)	7293						20	20
<i>Piaractus brachypomus</i> (Cuvier 1818)	6095, 6098, 6332, 6376, 7263, 7276	1					10	11
Sternopygidae								
<i>Eigenmannia humboldtii</i> (Steindachner 1878)	5778, 5813, 5938, 5959, 6080, 6135, 6194, 6196, 6430, 6475, 6540, 6546, 6618, 6619, 6631, 6643, 6768, 6794,				11		32	43

	6827, 6854, 6858, 6863							
<i>Eigenmannia virescens</i> (Valenciennes 1836)		7		3	487		1 522	2 019
<i>Eigenmannia zenuensis</i> Herrera-Collazos, Galindo-Cuervo, Maldonado-Ocampo & Rincón-Sandoval 2020	7258, 7259				1		2	3
	6232, 6302, 6358, 6391,							
<i>Sternopygus aequilabiatus</i> (Humboldt 1805)	6396, 6593, 6599, 6674, 6888, 6960, 7294	17		1	153		229	400
Synbranchidae								
<i>Synbranchus marmoratus</i> Bloch, 1795							2	2
Trichomycteridae								
<i>Trichomycterus chapmani</i> (Eigenmann 1912)	6973		4	2				6
	5577, 5578, 5579, 5707, 5727, 5972,							
<i>Trichomycterus</i> sp. Valenciennes 1832	6668, 6912, 6915, 6922, 6980, 7194, 7209	5		21				26
Triporthidae								
	5780, 5781, 5833, 5848, 5851, 5866, 6049, 6071, 6133, 6134, 6149, 6208, 6215, 6243, 6252, 6294,							
<i>Triporthus magdalenae</i> (Steindachner 1878)	64066424, 6429, 6434, 6438, 6440, 6486, 6509, 6548, 6509, 6610, 6630, 6989, 7004, 7014, 7016, 7037, 7039,	79	20	101	3 040	3	5 441	8 684

7067, 7104,
7280, 7288

Overall Total	8 973	2 658	4 558	16 029	643	77 032	109 893
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MCR: middle Cauca River basin, MBC: middle basin creeks, MBS: streams flowing into the middle Cauca River basin, LCR: lower Cauca River basin, LBS: streams flowing into the lower Cauca River basin, and SWP: swamps.

AT3

Diversity values of sampling sites. The first column presents the codes of each of the 58 sampled sites (the information of each site is available on Appendix 1); the rest of the columns present sample size (number of individuals (n)), diversity order (q), diversity order estimate q (qD), confidence limit of diversity above and below 95% (qD.LCL, qD.UCL), and sample coverage (SC) along with 95% below and above the confidence limits of the sample coverage (SC.LCL, SC.UCL).

Code site	n	q	qD	qD (LCL)	qD (UCL)	SC	SC (LCL)	SC (UCL)
E01	9 490	0	55.03	49.66	60.39	1	0.99	1
E01	9 490	1	5.73	5.46	6.00	1	0.99	1
E01	9 490	2	2.81	2.69	2.94	1	0.99	1
E02	4 368	0	59.89	52.24	67.54	0.99	0.99	1
E02	4 368	1	13.80	13.09	14.51	0.99	0.99	1
E02	4 368	2	8.20	7.76	8.64	0.99	0.99	1
E04	184	0	21.35	14.43	28.28	0.97	0.93	1.01
E04	184	1	12.57	9.96	15.17	0.97	0.93	1.01
E04	184	2	9.93	7.67	12.19	0.97	0.93	1.00
E05	254	0	31.54	23.38	39.70	0.96	0.92	1.01
E05	254	1	16.60	13.25	19.95	0.96	0.93	1.00
E05	254	2	11.77	9.39	14.15	0.96	0.93	1.00
E06	502	0	29.55	22.41	36.70	0.99	0.97	1.01
E06	502	1	11.18	9.70	12.67	0.99	0.98	1.01
E06	502	2	7.67	6.59	8.75	0.99	0.98	1.01
E07	524	0	29.30	23.13	35.48	0.99	0.98	1.01
E07	524	1	13.20	11.50	14.90	0.99	0.98	1.01
E07	524	2	8.85	7.62	10.09	0.99	0.98	1.01
E08	1 008	0	37.51	29.15	45.87	0.99	0.98	0.99
E08	1 008	1	14.20	12.80	15.60	0.99	0.98	0.99
E08	1 008	2	10.89	9.99	11.78	0.99	0.98	1
E09	2 474	0	45.92	40.62	51.22	1	1	1
E09	2 474	1	14.89	13.97	15.81	1	1	1
E09	2 474	2	9.63	8.91	10.35	1	1	1
E10	2 630	0	54.61	47.77	61.45	1	1	1
E10	2 630	1	13.48	12.47	14.49	1	1	1
E10	2 630	2	7.56	6.83	8.28	1	1	1
E11	2 364	0	48.29	43.32	53.25	1	1	1
E11	2 364	1	18.83	17.47	20.20	1	1	1

E11	2 364	2	12.37	11.58	13.16	1	1	1
E12	2 574	0	65.17	58.84	71.50	1	1	1
E12	2 574	1	8.01	7.73	8.30	1	1	1
E12	2 574	2	3.64	3.50	3.77	1	1	1
E14	22 212	0	63.98	58.54	69.43	1	1	1
E14	22 212	1	13.59	13.25	13.93	1	1	1
E14	22 212	2	8.36	8.17	8.56	1	1	1
E15	23 348	0	66.35	59.88	72.81	1	1	1
E15	23 348	1	14.56	14.24	14.89	1	1	1
E15	23 348	2	8.69	8.44	8.93	1	1	1
E16	8 960	0	72.58	63.77	81.40	1	1	1
E16	8 960	1	20.43	19.72	21.14	1	1	1
E16	8 960	2	12.02	11.42	12.61	1	1	1
E17	4 972	0	62.81	52.67	72.96	1	1	1
E17	4 972	1	20.95	20.11	21.79	1	1	1
E17	4 972	2	15.85	15.28	16.42	1	1	1
E18	5 064	0	55.09	45.01	65.17	1	1	1
E18	5 064	1	16.76	16.11	17.41	1	1	1
E18	5 064	2	11.49	10.91	12.07	1	1	1
E19	162	0	7.16	4.26	10.07	1	0.99	1
E19	162	1	2.11	1.54	2.69	1	0.98	1
E19	162	2	1.41	1.15	1.68	1	0.99	1
E19c	732	0	25.16	20.26	30.06	1	0.99	1
E19c	732	1	8.38	7.26	9.51	1	0.99	1
E19c	732	2	5.26	4.60	5.92	1	0.99	1
E20	400	0	9.26	6.29	12.23	1	0.99	1
E20	400	1	1.78	1.49	2.08	1	0.99	1
E20	400	2	1.27	1.14	1.41	1	0.99	1
E21	438	0	24.43	18.48	30.38	0.99	0.98	1
E21	438	1	11.56	9.82	13.29	0.99	0.98	1
E21	438	2	8.06	6.76	9.37	0.99	0.98	1
E22	314	0	22.32	15.03	29.61	0.98	0.95	1
E22	314	1	6.89	5.50	8.28	0.98	0.95	1
E22	314	2	4.27	3.49	5.05	0.98	0.95	1
E22c	554	0	27.95	18.85	37.06	0.98	0.96	1
E22c	554	1	9.48	8.00	10.96	0.98	0.96	1
E22c	554	2	7.02	6.36	7.69	0.98	0.96	1
E23	296	0	17.92	11.14	24.70	0.98	0.96	1
E23	296	1	6.00	4.85	7.15	0.98	0.96	1
E23	296	2	3.89	3.13	4.65	0.98	0.96	1
E24	1 364	0	41.72	34.72	48.72	1	0.99	1
E24	1 364	1	16.66	15.16	18.17	1	0.99	1
E24	1 364	2	9.19	7.87	10.51	1	0.99	1
E25	2 486	0	59.70	49.24	70.17	0.99	0.99	1
E25	2 486	1	20.54	19.40	21.68	0.99	0.99	1
E25	2 486	2	14.77	13.89	15.64	0.99	0.99	1

E26	6 120	0	51.70	44.74	58.66	1	1	1
E26	6 120	1	13.11	12.39	13.82	1	1	1
E26	6 120	2	6.70	6.25	7.14	1	1	1
E27	4 190	0	58.07	47.50	68.64	1	0.99	1
E27	4 190	1	14.78	13.82	15.74	1	0.99	1
E27	4 190	2	8.49	7.98	9.00	1	0.99	1
E28	5 532	0	47.38	40.48	54.28	1	1	1
E28	5 532	1	11.79	11.21	12.36	1	1	1
E28	5 532	2	6.29	5.94	6.65	1	1	1
E29	8 942	0	52.79	47.16	58.42	1	1	1
E29	8 942	1	13.69	13.13	14.25	1	1	1
E29	8 942	2	6.97	6.62	7.31	1	1	1
E3	590	0	25.32	18.18	32.46	0.99	0.97	1
E3	590	1	5.28	4.46	6.11	0.99	0.97	1
E3	590	2	3.21	2.82	3.61	0.99	0.97	1
E3.1	1 210	0	34.62	26.29	42.96	0.99	0.99	1
E3.1	1 210	1	6.86	5.92	7.79	0.99	0.99	1
E3.1	1 210	2	3.12	2.67	3.58	0.99	0.99	1
E30	9 172	0	55.11	49.87	60.35	1	1	1
E30	9 172	1	12.36	11.88	12.84	1	1	1
E30	9 172	2	6.20	5.88	6.52	1	1	1
E31	5 020	0	52.27	43.10	61.43	1	1	1
E31	5 020	1	11.94	11.26	12.61	1	1	1
E31	5 020	2	7.73	7.37	8.09	1	1	1
E32	3 734	0	55.57	47.17	63.97	1	1	1
E32	3 734	1	19.92	18.88	20.96	1	1	1
E32	3 734	2	13.81	13.07	14.55	1	1	1
E33	8 440	0	51.57	44.88	58.25	1	1	1
E33	8 440	1	12.56	12.04	13.08	1	1	1
E33	8 440	2	7.51	7.15	7.86	1	1	1
E34	10 020	0	48.05	43.43	52.67	1	1	1
E34	10 020	1	11.98	11.57	12.39	1	1	1
E34	10 020	2	7.16	6.86	7.45	1	1	1
E35	3 242	0	47.17	39.46	54.88	1	1	1
E35	3 242	1	15.45	14.61	16.30	1	1	1
E35	3 242	2	10.15	9.49	10.81	1	1	1
E36	9 164	0	55.44	49.74	61.14	1	1	1
E36	9 164	1	13.15	12.66	13.64	1	1	1
E36	9 164	2	6.74	6.46	7.03	1	1	1
E37	14 548	0	64.48	55.70	73.26	1	1	1
E37	14 548	1	12.01	11.61	12.40	1	1	1
E37	14 548	2	6.33	6.09	6.56	1	1	1
E38	4 944	0	56.20	44.84	67.57	1	0.99	1
E38	4 944	1	11.87	11.27	12.48	1	0.99	1
E38	4 944	2	5.39	4.98	5.80	1	0.99	1
QAE01	324	0	1.00	1.00	1.00	1	1.00	1

QAE01	324	1	1.00	1.00	1.00	1	1.00	1
QAE01	324	2	1.00	1.00	1.00	1	1.00	1
QAE02	348	0	14.86	12.54	17.18	1	0.99	1
QAE02	348	1	9.39	8.30	10.48	1	0.99	1
QAE02	348	2	7.35	6.19	8.51	1	0.99	1
QAE03	358	0	11.86	9.30	14.42	1	0.99	1
QAE03	358	1	6.68	5.89	7.47	1	0.99	1
QAE03	358	2	5.34	4.58	6.11	1	0.99	1
QAE04	414	0	3.86	3.08	4.64	1	1	1
QAE04	414	1	1.07	1.00	1.14	1	1	1
QAE04	414	2	1.02	0.99	1.05	1	1	1
QAE05	1 064	0	29.15	23.38	34.92	1	0.99	1
QAE05	1 064	1	10.73	9.64	11.83	1	0.99	1
QAE05	1 064	2	6.18	5.48	6.89	1	0.99	1
QAE06	1 324	0	32.79	26.95	38.62	1	0.99	1
QAE06	1 324	1	9.00	8.11	9.90	1	0.99	1
QAE06	1 324	2	4.91	4.36	5.46	1	0.99	1
QAE07	426	0	23.37	16.24	30.50	0.99	0.97	1
QAE07	426	1	7.17	5.77	8.58	0.99	0.97	1
QAE07	426	2	4.39	3.58	5.21	0.99	0.97	1
QAE08	994	0	35.88	28.06	43.69	0.99	0.98	1
QAE08	994	1	7.44	6.54	8.33	0.99	0.98	1
QAE08	994	2	4.25	3.80	4.70	0.99	0.98	1
QAE09	672	0	23.33	15.85	30.80	0.99	0.98	1
QAE09	672	1	7.11	6.25	7.97	0.99	0.98	1
QAE09	672	2	5.29	4.74	5.84	0.99	0.98	1
QAE10	270	0	6.00	4.80	7.20	1	1	1
QAE10	270	1	4.11	3.68	4.54	1	1	1
QAE10	270	2	3.58	3.13	4.02	1	1	1
QAE11	282	0	7.43	5.19	9.67	1	1	1
QAE11	282	1	4.68	4.16	5.20	1	1	1
QAE11	282	2	3.94	3.33	4.56	1	1	1
QAE12	402	0	12.26	8.53	15.99	1	0.99	1
QAE12	402	1	4.55	3.83	5.27	1	0.99	1
QAE12	402	2	2.84	2.21	3.47	1	0.99	1
QAE13	420	0	19.49	15.67	23.30	1	0.99	1
QAE13	420	1	9.83	8.18	11.48	1	0.99	1
QAE13	420	2	5.74	4.39	7.10	1	0.99	1
QAE14	298	0	21.58	16.23	26.92	1	0.98	1
QAE14	298	1	7.40	5.89	8.92	1	0.97	1
QAE14	298	2	4.29	3.43	5.15	1	0.98	1
QAE15	628	0	14.25	11.13	17.36	1	1	1
QAE15	628	1	5.44	4.73	6.15	1	1	1
QAE15	628	2	3.14	2.66	3.62	1	1	1
QAE16	348	0	8.86	8.19	9.53	1	1	1
QAE16	348	1	4.48	3.88	5.09	1	1	1

QAE16	348	2	3.18	2.55	3.80	1	1	1
QAE17	228	0	11.91	7.05	16.77	0.98	0.96	1
QAE17	228	1	3.98	3.25	4.70	0.98	0.97	1
QAE17	228	2	2.69	2.03	3.35	0.98	0.96	1

AF1

β diversity distribution for all sampling sites. General β diversity (β_{sor} , solid line) and its nestedness component (β_{sne} , gray dotted line) and rotation component (β_{sim} , black dotted line)

