

**Supplementary data 1.** Surveyed Points

Point Name	Zone	Latitude	Longitude	Altitude (m)	Point Name	Zone	Latitude	Longitude	Altitude (m)
Z1-01	Zone 1	-4.4745	-73.5957	99	Z2-01	Zone 2	-5.6853	-77.6528	1110
Z1-02	Zone 1	-4.4677	-73.5940	114	Z2-02	Zone 2	-5.6859	-77.6479	1074
Z1-03	Zone 1	-4.4621	-73.5943	122	Z2-03	Zone 2	-5.6846	-77.6583	1087
Z1-04	Zone 1	-4.4578	-73.5920	130	Z2-04	Zone 2	-5.6830	-77.6629	1121
Z1-05	Zone 1	-4.4511	-73.5914	136	Z2-05	Zone 2	-5.6821	-77.6675	1154
Z1-06	Zone 1	-4.4456	-73.5911	127	Z2-06	Zone 2	-5.6756	-77.6747	1205
Z1-07	Zone 1	-4.4407	-73.5889	127	Z2-07	Zone 2	-5.6738	-77.6788	1242
Z1-08	Zone 1	-4.4340	-73.5854	127	Z2-08	Zone 2	-5.6741	-77.6827	1263
Z1-09	Zone 1	-4.4297	-73.5834	117	Z2-09	Zone 2	-5.6741	-77.6875	1270
Z1-10	Zone 1	-4.4252	-73.5826	121	Z2-10	Zone 2	-5.6696	-77.6904	1296
Z1-11	Zone 1	-4.4212	-73.5852	119	Z2-11	Zone 2	-5.6650	-77.6924	1310
Z1-12	Zone 1	-4.4159	-73.5840	139	Z2-12	Zone 2	-5.6626	-77.6972	1321
Z1-13	Zone 1	-4.4114	-73.5824	137	Z2-13	Zone 2	-5.6661	-77.6990	1356
Z1-14	Zone 1	-4.4059	-73.5798	125	Z2-14	Zone 2	-5.6693	-77.7018	1401
Z1-15	Zone 1	-4.4027	-73.5753	148	Z2-15	Zone 2	-5.6731	-77.7034	1447
Z1-16	Zone 1	-4.3974	-73.5735	129	Z2-16	Zone 2	-5.6725	-77.7083	1416
Z1-17	Zone 1	-4.3921	-73.5714	134	Z2-17	Zone 2	-5.6743	-77.7138	1449
Z1-18	Zone 1	-4.3875	-73.5682	138	Z2-18	Zone 2	-5.6729	-77.7179	1454
Z1-19	Zone 1	-4.3822	-73.5657	126	Z2-19	Zone 2	-5.6709	-77.7234	1489
Z1-20	Zone 1	-4.3765	-73.5639	137	Z2-20	Zone 2	-5.6681	-77.7271	1530
Z1-21	Zone 1	-4.3712	-73.5618	139	Z2-21	Zone 2	-5.6679	-77.7308	1542
Z1-22	Zone 1	-4.3655	-73.5589	136	Z2-22	Zone 2	-5.6676	-77.7359	1593
Z1-23	Zone 1	-4.3607	-73.5561	141	Z2-23	Zone 2	-5.6635	-77.7389	1635
Z1-24	Zone 1	-4.3563	-73.5522	134	Z2-24	Zone 2	-5.6614	-77.7426	1657
Z1-25	Zone 1	-4.3525	-73.5466	124	Z2-25	Zone 2	-5.6650	-77.7437	1670
Z1-26	Zone 1	-4.3459	-73.5420	127	Z2-26	Zone 2	-5.6673	-77.7428	1668
Z1-27	Zone 1	-4.3382	-73.5369	117	Z2-27	Zone 2	-5.6719	-77.7442	1696
Z1-28	Zone 1	-4.3333	-73.5339	124	Z2-28	Zone 2	-5.6672	-77.7478	1716
Z1-29	Zone 1	-4.3267	-73.5309	126	Z2-29	Zone 2	-5.6723	-77.7539	1752
Z1-30	Zone 1	-4.3213	-73.5279	121	Z2-30	Zone 2	-5.6686	-77.7563	1939
Z1-31	Zone 1	-4.0964	-73.4543	96	Z2-31	Zone 2	-5.6706	-77.7592	1941
Z1-32	Zone 1	-4.0887	-73.4555	110	Z2-32	Zone 2	-5.6702	-77.7634	1925
Z1-33	Zone 1	-4.0848	-73.4555	113	Z2-33	Zone 2	-5.6688	-77.7689	1951
Z1-34	Zone 1	-4.0847	-73.4490	96	Z2-34	Zone 2	-5.6702	-77.7708	1970
Z1-35	Zone 1	-4.0804	-73.4476	103	Z2-35	Zone 2	-5.6744	-77.7726	1976
Z1-36	Zone 1	-4.0650	-73.4502	111	Z2-36	Zone 2	-5.6772	-77.7758	2023
Z1-37	Zone 1	-4.0660	-73.4415	105	Z2-37	Zone 2	-5.6814	-77.7780	2026
Z1-38	Zone 1	-4.0676	-73.4371	108	Z2-38	Zone 2	-5.6849	-77.7816	2050
Z1-39	Zone 1	-4.0585	-73.4396	104	Z2-39	Zone 2	-5.6879	-77.7852	2075
Z1-40	Zone 1	-4.0517	-73.4386	103	Z2-40	Zone 2	-5.6911	-77.7889	2107
Z1-41	Zone 1	-4.0472	-73.4380	107	Z2-41	Zone 2	-5.6936	-77.7929	2122
Z1-42	Zone 1	-4.0427	-73.4391	112	Z2-42	Zone 2	-5.6956	-77.7981	2156
Z1-43	Zone 1	-4.0389	-73.4422	124	Z2-43	Zone 2	-5.7003	-77.8023	2206
Z1-44	Zone 1	-4.0382	-73.4367	106	Z2-44	Zone 2	-5.7006	-77.8069	2259
Z1-45	Zone 1	-4.0336	-73.4355	111	Z2-45	Zone 2	-5.6962	-77.8044	2285
Z1-46	Zone 1	-3.9250	-73.3786	117	Z2-46	Zone 2	-5.6961	-77.8078	2310
Z1-47	Zone 1	-3.9213	-73.3708	114	Z2-47	Zone 2	-5.6978	-77.8104	2322
Z1-48	Zone 1	-3.9156	-73.3646	130	Z2-48	Zone 2	-5.7028	-77.8134	2311
Z1-49	Zone 1	-3.9109	-73.3627	127	Z2-49	Zone 2	-5.7005	-77.8187	2289
Z1-50	Zone 1	-3.9070	-73.3602	128	Z2-50	Zone 2	-5.6983	-77.8220	2258
Z1-51	Zone 1	-3.9041	-73.3566	137	Z2-51	Zone 2	-5.7009	-77.8250	2229
Z1-52	Zone 1	-3.9013	-73.3523	131	Z2-52	Zone 2	-5.7035	-77.8287	2209
Z1-53	Zone 1	-3.8979	-73.3489	124	Z2-53	Zone 2	-5.7056	-77.8318	2198
Z1-54	Zone 1	-3.8993	-73.3446	110	Z2-54	Zone 2	-5.7084	-77.8349	2169
Z1-55	Zone 1	-3.8919	-73.3502	129	Z2-55	Zone 2	-5.7134	-77.8381	2164
Z1-56	Zone 1	-3.8853	-73.3562	112	Z2-56	Zone 2	-5.7156	-77.8412	2121
Z1-57	Zone 1	-3.8849	-73.3517	111	Z2-57	Zone 2	-5.7125	-77.8460	2111
Z1-58	Zone 1	-3.8809	-73.3476	126	Z2-58	Zone 2	-5.7094	-77.8470	2100
Z1-59	Zone 1	-3.8771	-73.3443	117	Z2-59	Zone 2	-5.7054	-77.8509	2101
Z1-60	Zone 1	-3.8716	-73.3440	126	Z2-60	Zone 2	-5.7020	-77.8540	2090
Z3-01	Zone 3	-5.7000	-77.8572	2081	Z4-01	Zone 4	-10.0068	-75.0403	257
Z3-02	Zone 3	-5.7717	-77.9240	1967	Z4-02	Zone 4	-10.0007	-75.0417	242
Z3-03	Zone 3	-5.8210	-78.0053	2501	Z4-03	Zone 4	-9.9956	-75.0428	260

Point Name	Zone	Latitude	Longitude	Altitude (m)	Point Name	Zone	Latitude	Longitude	Altitude (m)
Z3-04	Zone 3	-5.8266	-78.0040	2442	Z4-04	Zone 4	-9.9907	-75.0440	249
Z3-05	Zone 3	-5.8309	-78.0012	2379	Z4-05	Zone 4	-9.9848	-75.0452	248
Z3-06	Zone 3	-5.8337	-77.9993	2325	Z4-06	Zone 4	-9.9790	-75.0465	248
Z3-07	Zone 3	-5.8395	-77.9962	2291	Z4-07	Zone 4	-9.9613	-75.0507	237
Z3-08	Zone 3	-5.8441	-77.9969	2273	Z4-08	Zone 4	-9.9562	-75.0518	243
Z3-09	Zone 3	-5.8503	-77.9972	2251	Z4-09	Zone 4	-9.9512	-75.0530	240
Z3-10	Zone 3	-5.8458	-77.9955	2206	Z4-10	Zone 4	-9.9455	-75.0535	246
Z3-11	Zone 3	-5.8504	-77.9898	2140	Z4-11	Zone 4	-9.9406	-75.0514	255
Z3-12	Zone 3	-5.8555	-77.9859	2108	Z4-12	Zone 4	-9.9356	-75.0490	263
Z3-13	Zone 3	-5.8576	-77.9827	2094	Z4-13	Zone 4	-9.9310	-75.0462	269
Z3-14	Zone 3	-5.8604	-77.9786	2057	Z4-14	Zone 4	-9.9270	-75.0422	241
Z3-15	Zone 3	-5.8611	-77.9750	2024	Z4-15	Zone 4	-9.9211	-75.0379	246
Z3-16	Zone 3	-5.8569	-77.9752	2014	Z4-16	Zone 4	-9.9166	-75.0346	272
Z3-17	Zone 3	-5.8600	-77.9727	2001	Z4-17	Zone 4	-9.9122	-75.0312	264
Z3-18	Zone 3	-5.8655	-77.9719	1968	Z4-18	Zone 4	-9.9085	-75.0285	268
Z3-19	Zone 3	-5.8692	-77.9678	1945	Z4-19	Zone 4	-9.9044	-75.0254	263
Z3-20	Zone 3	-5.8666	-77.9626	1911	Z4-20	Zone 4	-9.8998	-75.0219	261
Z3-21	Zone 3	-5.8711	-77.9605	1866	Z4-21	Zone 4	-9.8940	-75.0206	259
Z3-22	Zone 3	-5.8704	-77.9564	1841	Z4-22	Zone 4	-9.8880	-75.0200	254
Z3-23	Zone 3	-5.8727	-77.9538	1825	Z4-23	Zone 4	-9.8823	-75.0195	256
Z3-24	Zone 3	-5.8755	-77.9597	1786	Z4-24	Zone 4	-9.8770	-75.0185	265
Z3-25	Zone 3	-5.8778	-77.9654	1750	Z4-25	Zone 4	-9.8710	-75.0183	242
Z3-26	Zone 3	-5.8781	-77.9701	1725	Z4-26	Zone 4	-9.8345	-75.0145	241
Z3-27	Zone 3	-5.8829	-77.9723	1707	Z4-27	Zone 4	-9.8297	-75.0139	237
Z3-28	Zone 3	-5.8862	-77.9756	1673	Z4-28	Zone 4	-9.8245	-75.0134	227
Z3-29	Zone 3	-5.8917	-77.9755	1647	Z4-29	Zone 4	-9.8188	-75.0128	233
Z3-30	Zone 3	-5.8949	-77.9738	1643	Z4-30	Zone 4	-9.8133	-75.0122	237
Z3-31	Zone 3	-5.8976	-77.9689	1613	Z4-31	Zone 4	-9.8064	-75.0108	230
Z3-32	Zone 3	-5.8992	-77.9663	1563	Z4-32	Zone 4	-9.8012	-75.0110	244
Z3-33	Zone 3	-5.8956	-77.9647	1548	Z4-33	Zone 4	-9.7962	-75.0104	242
Z3-34	Zone 3	-5.9028	-77.9664	1490	Z4-34	Zone 4	-9.7914	-75.0098	245
Z3-35	Zone 3	-5.9062	-77.9660	1489	Z4-35	Zone 4	-9.7854	-75.0093	238
Z3-36	Zone 3	-5.9111	-77.9640	1444	Z4-36	Zone 4	-9.7799	-75.0087	230
Z3-37	Zone 3	-5.9168	-77.9613	1403	Z4-37	Zone 4	-9.7741	-75.0081	233
Z3-38	Zone 3	-5.9212	-77.9615	1391	Z4-38	Zone 4	-9.7688	-75.0067	231
Z3-39	Zone 3	-5.9277	-77.9633	1365	Z4-39	Zone 4	-9.7635	-75.0070	234
Z3-40	Zone 3	-5.9306	-77.9649	1349	Z4-40	Zone 4	-9.7580	-75.0064	248
Z3-41	Zone 3	-5.9382	-77.9715	1338	Z4-41	Zone 4	-9.2541	-75.0082	213
Z3-42	Zone 3	-5.9731	-77.9746	1341	Z4-42	Zone 4	-8.9305	-75.0403	211
Z3-43	Zone 3	-5.9651	-77.9787	1319	Z4-43	Zone 4	-8.9258	-75.0408	221
Z3-44	Zone 3	-5.9565	-77.9783	1315	Z4-44	Zone 4	-8.9212	-75.0414	212
Z3-45	Zone 3	-5.9329	-77.9822	1285	Z4-45	Zone 4	-8.9165	-75.0419	210
Z3-46	Zone 3	-5.9280	-77.9847	1288	Z4-46	Zone 4	-8.9117	-75.0424	216
Z3-47	Zone 3	-5.9252	-77.9880	1287	Z4-47	Zone 4	-8.9072	-75.0430	217
Z3-48	Zone 3	-5.9220	-77.9990	1271	Z4-48	Zone 4	-8.9024	-75.0435	219
Z3-49	Zone 3	-5.9193	-78.0050	1254	Z4-49	Zone 4	-8.8977	-75.0441	210
Z3-50	Zone 3	-5.9184	-78.0112	1233	Z4-50	Zone 4	-8.8930	-75.0446	213
Z3-51	Zone 3	-5.9171	-78.0173	1245	Z4-51	Zone 4	-8.8883	-75.0451	215
Z3-52	Zone 3	-5.9147	-78.0244	1227	Z4-52	Zone 4	-8.8837	-75.0457	230
Z3-53	Zone 3	-5.9149	-78.0311	1190	Z4-53	Zone 4	-8.8791	-75.0462	231
Z3-54	Zone 3	-5.9147	-78.0372	1172	Z4-54	Zone 4	-8.8741	-75.0468	227
Z3-55	Zone 3	-5.9150	-78.0417	1156	Z4-55	Zone 4	-8.8693	-75.0474	226
Z3-56	Zone 3	-5.9118	-78.0476	1151	Z4-56	Zone 4	-8.8647	-75.0479	234
Z3-57	Zone 3	-5.9063	-78.0471	1138	Z4-57	Zone 4	-8.8588	-75.0486	230
Z3-58	Zone 3	-5.9059	-78.0533	1115	Z4-58	Zone 4	-8.8532	-75.0492	239
Z3-59	Zone 3	-5.9119	-78.0557	1099	Z4-59	Zone 4	-8.8485	-75.0497	232
Z3-60	Zone 3	-5.9174	-78.0564	1079	Z4-60	Zone 4	-8.8436	-75.0503	228
Z5-01	Zone 5	-10.4963	-75.0407	581	Z6-01	Zone 6	-13.3562	-70.3382	496
Z5-02	Zone 5	-10.4946	-75.0449	622	Z6-02	Zone 6	-13.3506	-70.3377	497
Z5-03	Zone 5	-10.4970	-75.0496	639	Z6-03	Zone 6	-13.3460	-70.3374	484
Z5-04	Zone 5	-10.4975	-75.0535	678	Z6-04	Zone 6	-13.3415	-70.3353	499
Z5-05	Zone 5	-10.5020	-75.0573	754	Z6-05	Zone 6	-13.3299	-70.3276	420
Z5-06	Zone 5	-10.5052	-75.0585	719	Z6-06	Zone 6	-13.3300	-70.3276	417
Z5-07	Zone 5	-10.5049	-75.0631	691	Z6-07	Zone 6	-13.3288	-70.3180	450
Z5-08	Zone 5	-10.5092	-75.0647	650	Z6-08	Zone 6	-13.3255	-70.3152	455

Point Name	Zone	Latitude	Longitude	Altitude (m)	Point Name	Zone	Latitude	Longitude	Altitude (m)
Z5-09	Zone 5	-10.5077	-75.0702	598	Z6-09	Zone 6	-13.3240	-70.3104	449
Z5-10	Zone 5	-10.5103	-75.0726	577	Z6-10	Zone 6	-13.3245	-70.3068	441
Z5-11	Zone 5	-10.5149	-75.0730	554	Z6-11	Zone 6	-13.3142	-70.3091	420
Z5-12	Zone 5	-10.5190	-75.0749	556	Z6-12	Zone 6	-13.3092	-70.3075	461
Z5-13	Zone 5	-10.5235	-75.0740	607	Z6-13	Zone 6	-13.3080	-70.3020	437
Z5-14	Zone 5	-10.5278	-75.0753	636	Z6-14	Zone 6	-13.3058	-70.2978	437
Z5-15	Zone 5	-10.5322	-75.0768	633	Z6-15	Zone 6	-13.3037	-70.2994	473
Z5-16	Zone 5	-10.5365	-75.0753	621	Z6-16	Zone 6	-13.3014	-70.2999	452
Z5-17	Zone 5	-10.5411	-75.0753	655	Z6-17	Zone 6	-13.2931	-70.3039	421
Z5-18	Zone 5	-10.5437	-75.0787	643	Z6-18	Zone 6	-13.2891	-70.3073	423
Z5-19	Zone 5	-10.5472	-75.0789	642	Z6-19	Zone 6	-13.2867	-70.3105	426
Z5-20	Zone 5	-10.5502	-75.0829	645	Z6-20	Zone 6	-13.2829	-70.3137	423
Z5-21	Zone 5	-10.5540	-75.0848	647	Z6-21	Zone 6	-13.2783	-70.3166	413
Z5-22	Zone 5	-10.5600	-75.0872	674	Z6-22	Zone 6	-13.2744	-70.3192	409
Z5-23	Zone 5	-10.5619	-75.0887	673	Z6-23	Zone 6	-13.2690	-70.3225	412
Z5-24	Zone 5	-10.5663	-75.0902	704	Z6-24	Zone 6	-13.2661	-70.3258	407
Z5-25	Zone 5	-10.5705	-75.0922	677	Z6-25	Zone 6	-13.2617	-70.3257	413
Z5-26	Zone 5	-10.5743	-75.0963	720	Z6-26	Zone 6	-13.2388	-70.3455	429
Z5-27	Zone 5	-10.5771	-75.0990	749	Z6-27	Zone 6	-13.2350	-70.3386	565
Z5-28	Zone 5	-10.5799	-75.1028	757	Z6-28	Zone 6	-13.2306	-70.3393	588
Z5-29	Zone 5	-10.5843	-75.1040	752	Z6-29	Zone 6	-13.2273	-70.3364	450
Z5-30	Zone 5	-10.5885	-75.1053	768	Z6-30	Zone 6	-13.2223	-70.3257	466
Z5-31	Zone 5	-10.5907	-75.1093	788	Z6-31	Zone 6	-13.2163	-70.3325	501
Z5-32	Zone 5	-10.5939	-75.1133	774	Z6-32	Zone 6	-13.2110	-70.3314	637
Z5-33	Zone 5	-10.5978	-75.1132	792	Z6-33	Zone 6	-13.2056	-70.3009	457
Z5-34	Zone 5	-10.3934	-74.9746	290	Z6-34	Zone 6	-13.2038	-70.3055	469
Z5-35	Zone 5	-10.3979	-74.9739	307	Z6-35	Zone 6	-13.2000	-70.3080	449
Z5-36	Zone 5	-10.4003	-74.9780	332	Z6-36	Zone 6	-13.1976	-70.3130	445
Z5-37	Zone 5	-10.4047	-74.9770	372	Z6-37	Zone 6	-13.1957	-70.3015	424
Z5-38	Zone 5	-10.4092	-74.9774	429	Z6-38	Zone 6	-13.1893	-70.3012	529
Z5-39	Zone 5	-10.4054	-74.9808	515	Z6-39	Zone 6	-13.1910	-70.2903	565
Z5-40	Zone 5	-10.4045	-74.9847	530	Z6-40	Zone 6	-13.1897	-70.2970	516
Z5-41	Zone 5	-10.4141	-74.9860	679	Z6-41	Zone 6	-13.1942	-70.2841	575
Z5-42	Zone 5	-10.4128	-74.9855	667	Z6-42	Zone 6	-13.1925	-70.3073	452
Z5-43	Zone 5	-10.4166	-74.9907	762	Z6-43	Zone 6	-13.1910	-70.3122	439
Z5-44	Zone 5	-10.4132	-74.9941	860	Z6-44	Zone 6	-13.1877	-70.3164	469
Z5-45	Zone 5	-10.4146	-74.9994	922	Z6-45	Zone 6	-13.1858	-70.3054	540
Z5-46	Zone 5	-10.4191	-75.0028	948	Z6-46	Zone 6	-13.1840	-70.3103	529
Z5-47	Zone 5	-10.4215	-75.0044	953	Z6-47	Zone 6	-13.1853	-70.3320	431
Z5-48	Zone 5	-10.4239	-75.0060	948	Z6-48	Zone 6	-13.1885	-70.3192	425
Z5-49	Zone 5	-10.4294	-75.0058	1010	Z6-49	Zone 6	-13.1849	-70.3228	450
Z5-50	Zone 5	-10.4343	-75.0070	1021	Z6-50	Zone 6	-13.1834	-70.3283	447
Z5-51	Zone 5	-10.4375	-75.0082	1001	Z6-51	Zone 6	-13.1829	-70.4498	406
Z5-52	Zone 5	-10.4396	-75.0090	996	Z6-52	Zone 6	-13.1829	-70.4548	399
Z5-53	Zone 5	-10.4447	-75.0079	953	Z6-53	Zone 6	-13.1792	-70.4588	400
Z5-54	Zone 5	-10.4469	-75.0132	973	Z6-54	Zone 6	-13.1778	-70.4634	406
Z5-55	Zone 5	-10.4526	-75.0123	971	Z6-55	Zone 6	-13.1813	-70.4681	401
Z5-56	Zone 5	-10.4548	-75.0107	964	Z6-56	Zone 6	-13.1813	-70.4727	409
Z5-57	Zone 5	-10.4602	-75.0111	966	Z6-57	Zone 6	-13.1789	-70.4822	437
Z5-58	Zone 5	-10.4593	-75.0174	899	Z6-58	Zone 6	-13.1776	-70.4875	432
Z5-59	Zone 5	-10.4615	-75.0217	882	Z6-59	Zone 6	-13.1756	-70.4941	408
Z5-60	Zone 5	-10.4660	-75.0248	814	Z6-60	Zone 6	-13.1777	-70.4985	416

**Supplementary data 2.** Documented bird species of secondary forest.

Order	Family	Species	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6
ACCIPITRIFORMES	ACCIPITRIDAE	<i>Accipiter bicolor</i>				x	x	x
ACCIPITRIFORMES	ACCIPITRIDAE	<i>Accipiter superciliosus</i>						x
APODIFORMES	TROCHILIDAE	<i>Adelomyia melanogenys</i>			x			
APODIFORMES	APODIDAE	<i>Aeronautes montivagus</i>		x	x		x	
APODIFORMES	TROCHILIDAE	<i>Aglaeactis cupripennis</i>			x			
APODIFORMES	TROCHILIDAE	<i>Aglaiocercus kingii</i>		x	x			
PASSERIFORMES	THAMNOPHILIDAE	<i>Akletos goeldii</i>						x
PSITTACIFORMES	PSITTACIDAE	<i>Amazona amazonica</i>			x	x		
PSITTACIFORMES	PSITTACIDAE	<i>Amazona farinosa</i>				x	x	x
PSITTACIFORMES	PSITTACIDAE	<i>Amazona festiva</i>	x					
PSITTACIFORMES	PSITTACIDAE	<i>Amazona mercenarius</i>		x	x			x
PSITTACIFORMES	PSITTACIDAE	<i>Amazona ochrocephala</i>	x		x	x	x	x
PASSERIFORMES	EMBERIZIDAE	<i>Ammodramus aurifrons</i>	x	x	x	x	x	x
PASSERIFORMES	COTINGIDAE	<i>Ampelion rubrocristatus</i>			x			
PASSERIFORMES	FURNARIIDAE	<i>Anabazenops dorsalis</i>		x				x
PASSERIFORMES	TYRANNIDAE	<i>Anairetes parulus</i>		x	x			x
PICIFORMES	RAMPHASTIDAE	<i>Andigena hypoglauca</i>		x			x	
PASSERIFORMES	THRAUPIDAE	<i>Anisognathus igniventris</i>		x	x			
PASSERIFORMES	THRAUPIDAE	<i>Anisognathus lacrymosus</i>		x	x			
PASSERIFORMES	THRAUPIDAE	<i>Anisognathus somptuosus</i>		x	x		x	
APODIFORMES	TROCHILIDAE	<i>Anthracothorax nigricollis</i>	x			x	x	
PSITTACIFORMES	PSITTACIDAE	<i>Ara ararauna</i>		x		x	x	x
PSITTACIFORMES	PSITTACIDAE	<i>Ara chloropterus</i>				x		x
PSITTACIFORMES	PSITTACIDAE	<i>Ara macao</i>				x		x
PSITTACIFORMES	PSITTACIDAE	<i>Ara militaris</i>	x	x		x	x	
PSITTACIFORMES	PSITTACIDAE	<i>Ara severus</i>	x			x	x	x
GRUIFORMES	RALLIDAE	<i>Aramides cajaneus</i>						x
PSITTACIFORMES	PSITTACIDAE	<i>Aratinga weddellii</i>	x	x		x	x	x
PELECANIFORMES	ARDEIDAE	<i>Ardea alba</i>	x		x	x		x
PASSERIFORMES	EMBERIZIDAE	<i>Arremon brunneinucha</i>		x	x		x	

Order	Family	Species	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6
PASSERIFORMES	PASSERELLIDAE	<i>Arremon castaneiceps</i>					x	
PASSERIFORMES	EMBERIZIDAE	<i>Arremon taciturnus</i>						x
PASSERIFORMES	EMBERIZIDAE	<i>Arremon torquatus</i>		x	x		x	
PASSERIFORMES	THRAUPIDAE	<i>Asemospiza obscura</i>					x	
PASSERIFORMES	EMBERIZIDAE	<i>Atlapetes latinuchus</i>		x	x			
PASSERIFORMES	HIRUNDINIDAE	<i>Atticora fasciata</i>	x	x	x	x	x	x
PASSERIFORMES	HIRUNDINIDAE	<i>Atticora tibialis</i>	x					x
PASSERIFORMES	TYRANNIDAE	<i>Attila bolivianus</i>						x
PASSERIFORMES	TYRANNIDAE	<i>Attila spadiceus</i>	x			x	x	x
PICIFORMES	RAMPHASTIDAE	<i>Aulacorhynchus albivitta</i>		x	x	x	x	x
PICIFORMES	RAMPHASTIDAE	<i>Aulacorhynchus derbianus</i>					x	x
PASSERIFORMES	FURNARIIDAE	<i>Automolus ochrolaemus</i>				x	x	x
PASSERIFORMES	FURNARIIDAE	<i>Automolus rufipileatus</i>						x
PASSERIFORMES	PARULIDAE	<i>Basileuterus trifasciatus</i>		x	x		x	
PASSERIFORMES	PARULIDAE	<i>Basileuterus tristriatus</i>		x	x		x	
PASSERIFORMES	FURNARIIDAE	<i>Berlepschia rikeri</i>	x					
APODIFORMES	TROCHILIDAE	<i>Boissonneaua matthewsii</i>		x	x			
PSITTACIFORMES	PSITTACIDAE	<i>Brotogeris cyanoptera</i>	x	x		x	x	x
PSITTACIFORMES	PSITTACIDAE	<i>Brotogeris sanctithomae</i>		x		x		x
PSITTACIFORMES	PSITTACIDAE	<i>Brotogeris versicolurus</i>	x	x	x	x		
STRIGIFORMES	STRIGIDAE	<i>Bubo virginianus</i>			x			
PELECANIFORMES	ARDEIDAE	<i>Bubulcus ibis</i>	x	x	x	x	x	
GALBULIFORMES	BUCCONIDAE	<i>Bucco macrodactylus</i>				x	x	x
ACCIPITRIFORMES	ACCIPITRIDAE	<i>Busarellus nigricollis</i>	x					
ACCIPITRIFORMES	ACCIPITRIDAE	<i>Buteo albonotatus</i>	x					
ACCIPITRIFORMES	ACCIPITRIDAE	<i>Buteo brachyurus</i>				x		
ACCIPITRIFORMES	ACCIPITRIDAE	<i>Buteogallus urubitinga</i>				x		
PASSERIFORMES	THRAUPIDAE	<i>Buthraupis montana</i>		x	x			
PELECANIFORMES	ARDEIDAE	<i>Butorides striata</i>	x		x			
PASSERIFORMES	ICTERIDAE	<i>Cacicus cela</i>	x	x	x	x	x	x
PASSERIFORMES	ICTERIDAE	<i>Cacicus chrysonotus</i>						x

Order	Family	Species	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6
PASSERIFORMES	ICTERIDAE	<i>Cacicus haemorrhous</i>		x				x
PASSERIFORMES	ICTERIDAE	<i>Cacicus koepckeae</i>						x
PASSERIFORMES	ICTERIDAE	<i>Cacicus oseryi</i>				x		x
PASSERIFORMES	ICTERIDAE	<i>Cacicus solitarius</i>				x		x
PASSERIFORMES	ICTERIDAE	<i>Cacicus uropygialis</i>		x	x	x		
APODIFORMES	TROCHILIDAE	<i>Calliphlox amethystina</i>				x	x	
PICIFORMES	PICIDAE	<i>Campephilus melanoleucos</i>	x	x		x	x	
PICIFORMES	PICIDAE	<i>Campephilus rubricollis</i>	x			x		
PASSERIFORMES	TYRANNIDAE	<i>Camptostoma obsoletum</i>	x	x	x			
APODIFORMES	TROCHILIDAE	<i>Campylopterus largipennis</i>				x	x	x
PASSERIFORMES	TROGLODYTIDAE	<i>Campylorhynchus turdinus</i>	x					
PICIFORMES	CAPITONIDAE	<i>Capito auratus</i>	x			x	x	
FALCONIFORMES	FALCONIDAE	<i>Caracara plancus</i>	x			x		x
PASSERIFORMES	PARULIDAE	<i>Cardellina canadensis</i>		x				
PASSERIFORMES	THRAUPIDAE	<i>Catamblyrhynchus diadema</i>		x	x			
PASSERIFORMES	THRAUPIDAE	<i>Catamenia inornata</i>		x	x			
CATHARTIFORMES	CATHARTIDAE	<i>Cathartes aura</i>	x	x	x	x	x	x
CATHARTIFORMES	CATHARTIDAE	<i>Cathartes burrovianus</i>	x					
CATHARTIFORMES	CATHARTIDAE	<i>Cathartes melambrotus</i>	x	x	x	x	x	x
PASSERIFORMES	TURDIDAE	<i>Catharus fuscater</i>					x	
PASSERIFORMES	TURDIDAE	<i>Catharus ustulatus</i>	x	x	x	x	x	x
PICIFORMES	PICIDAE	<i>Celeus elegans</i>	x					
PICIFORMES	PICIDAE	<i>Celeus flavus</i>						x
PASSERIFORMES	COTINGIDAE	<i>Cephalopterus ornatus</i>					x	x
PASSERIFORMES	PIPRIDAE	<i>Ceratopipra chloromeros</i>				x		x
PASSERIFORMES	THAMNOPHILIDAE	<i>Cercomacra cinerascens</i>		x		x	x	
PASSERIFORMES	THAMNOPHILIDAE	<i>Cercomacroides nigrescens</i>		x	x			x
APODIFORMES	TROCHILIDAE	<i>Chaetocercus mulsant</i>		x	x			
APODIFORMES	APODIDAE	<i>Chaetura brachyura</i>	x					x
APODIFORMES	APODIDAE	<i>Chaetura chapmani</i>				x	x	x
APODIFORMES	APODIDAE	<i>Chaetura cinereiventris</i>					x	x

Order	Family	Species	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6
APODIFORMES	APODIDAE	<i>Chaetura egregia</i>	x			x		x
PASSERIFORMES	THRAUPIDAE	<i>Chalcothraupis ruficervix</i>		x				
GALLIFORMES	CRACIDAE	<i>Chamaepetes goudotii</i>		x				
GALBULIFORMES	BUCCONIDAE	<i>Chelidoptera tenebrosa</i>	x					x
APODIFORMES	TROCHILIDAE	<i>Chionomesa fimbriata</i>	x					
APODIFORMES	TROCHILIDAE	<i>Chionomesa lactea</i>		x		x	x	x
PASSERIFORMES	PIPRIDAE	<i>Chiroxiphia pareola</i>				x		
APODIFORMES	TROCHILIDAE	<i>Chlorestes cyanus</i>					x	
CORACIIFORMES	ALCEDINIDAE	<i>Chloroceryle amazona</i>	x				x	x
CORACIIFORMES	ALCEDINIDAE	<i>Chloroceryle americana</i>					x	
CORACIIFORMES	ALCEDINIDAE	<i>Chloroceryle inda</i>	x					
PASSERIFORMES	THRAUPIDAE	<i>Chlorochrysa calliparaea</i>		x	x		x	
PASSERIFORMES	THRAUPIDAE	<i>Chlorophanes spiza</i>					x	x
PASSERIFORMES	FRINGILLIDAE	<i>Chlorophonia cyanea</i>			x			x
PASSERIFORMES	FRINGILLIDAE	<i>Chlorophonia cyanocephala</i>		x				
PASSERIFORMES	PIPRIDAE	<i>Chloropipo unicolor</i>					x	
PASSERIFORMES	THRAUPIDAE	<i>Chlorornis riefferii</i>		x	x			
PASSERIFORMES	PASSERELLIDAE	<i>Chlorospingus flavigularis</i>			x		x	
APODIFORMES	TROCHILIDAE	<i>Chlorostilbon mellisugus</i>	x					
CAPRIMULGIFORMES	CAPRIMULGIDAE	<i>Chordeiles rupestris</i>					x	
APODIFORMES	TROCHILIDAE	<i>Chrysuronia oenone</i>					x	x
PASSERIFORMES	CINCLIDAE	<i>Cinclus leucocephalus</i>			x		x	
PASSERIFORMES	THRAUPIDAE	<i>Cissopis leverianus</i>	x	x	x	x	x	x
COLUMBIFORMES	COLUMBIDAE	<i>Claravis pretiosa</i>					x	x
PASSERIFORMES	THRAUPIDAE	<i>Cnemoscopus rubrirostris</i>		x				
PASSERIFORMES	TYRANNIDAE	<i>Cnemotriccus fuscatus</i>	x				x	
CUCULIFORMES	CUCULIDAE	<i>Coccyua minuta</i>						x
APODIFORMES	TROCHILIDAE	<i>Coeligena coeligena</i>		x	x		x	
APODIFORMES	TROCHILIDAE	<i>Coeligena torquata</i>		x	x			
PASSERIFORMES	THRAUPIDAE	<i>Coereba flaveola</i>	x	x	x	x	x	x
PICIFORMES	PICIDAE	<i>Colaptes punctigula</i>	x			x		x

Order	Family	Species	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6
APODIFORMES	TROCHILIDAE	<i>Colibri coruscans</i>		x	x			x
APODIFORMES	TROCHILIDAE	<i>Colibri cyanotus</i>		x	x			
PASSERIFORMES	TYRANNIDAE	<i>Colonia colonus</i>					x	x
COLUMBIFORMES	COLUMBIDAE	<i>Columba livia</i>			x			
COLUMBIFORMES	COLUMBIDAE	<i>Columbina cruziana</i>		x	x			
COLUMBIFORMES	COLUMBIDAE	<i>Columbina minuta</i>		x	x			
COLUMBIFORMES	COLUMBIDAE	<i>Columbina talpacoti</i>	x	x	x	x	x	x
PASSERIFORMES	THRAUPIDAE	<i>Conirostrum albifrons</i>		x	x			
PASSERIFORMES	THRAUPIDAE	<i>Conirostrum cinereum</i>		x	x		x	
PASSERIFORMES	TYRANNIDAE	<i>Conopias parvus</i>	x					
PASSERIFORMES	CONOPOPHAGIDAE	<i>Conopophaga castaneiceps</i>		x				
PASSERIFORMES	Conopophagidae	<i>Conopophaga peruviana</i>					x	x
PASSERIFORMES	TYRANNIDAE	<i>Contopus cinereus</i>			x			x
PASSERIFORMES	TYRANNIDAE	<i>Contopus fumigatus</i>		x	x			
PASSERIFORMES	TYRANNIDAE	<i>Contopus sordidulus</i>			x			
PASSERIFORMES	TYRANNIDAE	<i>Contopus virens</i>					x	x
CATHARTIFORMES	CATHARTIDAE	<i>Coragyps atratus</i>	x	x	x	x	x	x
PASSERIFORMES	THRAUPIDAE	<i>Coryphospingus cucullatus</i>		x	x			
PASSERIFORMES	TYRANNIDAE	<i>Corythopsis torquatus</i>	x					x
PASSERIFORMES	COTINGIDAE	<i>Cotinga cayana</i>				x	x	x
PASSERIFORMES	COTINGIDAE	<i>Cotinga maynana</i>						x
PASSERIFORMES	FURNARIIDAE	<i>Cranioleuca antisimensis</i>		x	x			
PASSERIFORMES	FURNARIIDAE	<i>Cranioleuca curtata</i>					x	
PASSERIFORMES	FURNARIIDAE	<i>Cranioleuca gutturata</i>						x
CUCULIFORMES	CUCULIDAE	<i>Crotophaga ani</i>	x	x	x	x	x	x
CUCULIFORMES	CUCULIDAE	<i>Crotophaga major</i>	x			x	x	
CUCULIFORMES	CUCULIDAE	<i>Crotophaga sulcirostris</i>		x				
PASSERIFORMES	PIPRIDAE	<i>Cryptopipo holochlora</i>					x	
TINAMIFORMES	TINAMIDAE	<i>Crypturellus cinereus</i>	x		x	x	x	
TINAMIFORMES	TINAMIDAE	<i>Crypturellus obsoletus</i>					x	
TINAMIFORMES	TINAMIDAE	<i>Crypturellus soui</i>	x			x	x	x



Order	Family	Species	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6
PASSERIFORMES	THRAUPIDAE	<i>Cyanerpes caeruleus</i>	x	x	x	x	x	x
PASSERIFORMES	THRAUPIDAE	<i>Cyanerpes cyaneus</i>						x
PASSERIFORMES	THRAUPIDAE	<i>Cyanerpes nitidus</i>	x					
PASSERIFORMES	CORVIDAE	<i>Cyanocorax violaceus</i>	x	x		x	x	x
PASSERIFORMES	CORVIDAE	<i>Cyanocorax yncas</i>		x	x		x	x
PASSERIFORMES	CARDINALIDAE	<i>Cyanoloxia cyanoides</i>	x			x		x
PASSERIFORMES	CARDINALIDAE	<i>Cyanoloxia rothschildii</i>				x		
PASSERIFORMES	CORVIDAE	<i>Cyanolyca viridicyanus</i>		x	x		x	
PASSERIFORMES	VIREONIDAE	<i>Cyclarhis gujanensis</i>		x	x			
PASSERIFORMES	THAMNOPHILIDAE	<i>Cymbilaimus lineatus</i>	x					
PASSERIFORMES	THAMNOPHILIDAE	<i>Cymbilaimus sanctaemariae</i>						x
PASSERIFORMES	TROGLODYTIDAE	<i>Cyphorhinus arada</i>					x	
APODIFORMES	APODIDAE	<i>Cypseloides cryptus</i>				x	x	
APODIFORMES	APODIDAE	<i>Cypseloides lemosi</i>						x
PASSERIFORMES	THRAUPIDAE	<i>Dacnis cayana</i>	x	x	x	x	x	x
PASSERIFORMES	THRAUPIDAE	<i>Dacnis flaviventer</i>						x
PASSERIFORMES	THRAUPIDAE	<i>Dacnis lineata</i>					x	x
FALCONIFORMES	FALCONIDAE	<i>Daptrius ater</i>	x	x			x	x
PASSERIFORMES	FURNARIIDAE	<i>Dendrexetastes rufigula</i>				x	x	
PASSERIFORMES	FURNARIIDAE	<i>Dendrocincla tyrannina</i>		x				
PASSERIFORMES	FURNARIIDAE	<i>Dendrocolaptes certhia</i>		x		x		
PASSERIFORMES	FURNARIIDAE	<i>Dendrocolaptes picumnus</i>	x				x	x
PASSERIFORMES	FURNARIIDAE	<i>Dendroma erythroptera</i>					x	
PASSERIFORMES	FURNARIIDAE	<i>Dendroplex picus</i>	x			x	x	
PASSERIFORMES	THRAUPIDAE	<i>Diglossa albilatera</i>		x	x			
PASSERIFORMES	THRAUPIDAE	<i>Diglossa brunneiventris</i>		x	x		x	
PASSERIFORMES	THRAUPIDAE	<i>Diglossa caerulescens</i>			x	x		
PASSERIFORMES	THRAUPIDAE	<i>Diglossa cyanea</i>		x	x			
PASSERIFORMES	THRAUPIDAE	<i>Diglossa glauca</i>		x	x			
PASSERIFORMES	THRAUPIDAE	<i>Diglossa mystacalis</i>		x	x		x	
PASSERIFORMES	THRAUPIDAE	<i>Diglossa sittoides</i>		x	x			

Order	Family	Species	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6
APODIFORMES	TROCHILIDAE	<i>Discosura popelairii</i>			x			
PASSERIFORMES	DONACOBIIDAE	<i>Donacobius atricapilla</i>	x					
PASSERIFORMES	THAMNOPHILIDAE	<i>Dryophila striaticeps</i>		x	x			
PICIFORMES	PICIDAE	<i>Dryobates affinis</i>		x			x	
PICIFORMES	PICIDAE	<i>Dryobates nigriceps</i>		x	x			
PICIFORMES	PICIDAE	<i>Dryobates passerinus</i>	x					x
PICIFORMES	PICIDAE	<i>Dryocopus lineatus</i>	x	x				x
PASSERIFORMES	THRAUPIDAE	<i>Dubusia taeniata</i>		x				
PASSERIFORMES	THAMNOPHILIDAE	<i>Dysithamnus mentalis</i>		x				
PELECANIFORMES	ARDEIDAE	<i>Egretta caerulea</i>						x
PELECANIFORMES	ARDEIDAE	<i>Egretta thula</i>	x		x	x		
PASSERIFORMES	TYRANNIDAE	<i>Elaenia albiceps</i>		x	x			
PASSERIFORMES	TYRANNIDAE	<i>Elaenia chiriquensis</i>		x	x			x
PASSERIFORMES	TYRANNIDAE	<i>Elaenia cristata</i>		x	x			x
PASSERIFORMES	TYRANNIDAE	<i>Elaenia flavogaster</i>			x			
PASSERIFORMES	TYRANNIDAE	<i>Elaenia gigas</i>		x	x	x	x	
PASSERIFORMES	TYRANNIDAE	<i>Elaenia obscura</i>		x		x	x	
PASSERIFORMES	TYRANNIDAE	<i>Elaenia pallatangae</i>		x	x			
PASSERIFORMES	TYRANNIDAE	<i>Elaenia parvirostris</i>						x
PASSERIFORMES	TYRANNIDAE	<i>Elaenia spectabilis</i>		x				
ACCIPITRIFORMES	ACCIPITRIDAE	<i>Elanoides forficatus</i>	x	x		x	x	x
CORACIIFORMES	MOMOTIDAE	<i>Electron platyrhynchum</i>						x
APODIFORMES	TROCHILIDAE	<i>Elliotomyia chionogaster</i>		x	x		x	x
PASSERIFORMES	THRAUPIDAE	<i>Emberizoides herbicola</i>			x			
PASSERIFORMES	TYRANNIDAE	<i>Empidonax alnorum</i>	x					
PASSERIFORMES	TYRANNIDAE	<i>Empidonax varius</i>		x		x	x	x
PASSERIFORMES	TURDIDAE	<i>Entomodestes leucotis</i>			x			
APODIFORMES	TROCHILIDAE	<i>Eriocnemis aline</i>		x				
PICIFORMES	CAPITONIDAE	<i>Eubucco richardsoni</i>				x	x	
PICIFORMES	CAPITONIDAE	<i>Eubucco versicolor</i>				x	x	
PASSERIFORMES	THAMNOPHILIDAE	<i>Euchrepomis humeralis</i>						x

Order	Family	Species	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6
PASSERIFORMES	THRAUPIDAE	<i>Eucometis penicillata</i>					x	
PASSERIFORMES	FRINGILLIDAE	<i>Euphonia chlorotica</i>		x	x	x		
PASSERIFORMES	FRINGILLIDAE	<i>Euphonia chrysopasta</i>					x	x
PASSERIFORMES	FRINGILLIDAE	<i>Euphonia laniirostris</i>	x	x	x	x	x	x
PASSERIFORMES	FRINGILLIDAE	<i>Euphonia minuta</i>						x
PASSERIFORMES	FRINGILLIDAE	<i>Euphonia rufiventris</i>		x	x	x	x	x
PASSERIFORMES	FRINGILLIDAE	<i>Euphonia xanthogaster</i>	x	x	x		x	x
EURYPIFORMES	EURYPIGIDAE	<i>Eurypyga helias</i>					x	
FALCONIFORMES	FALCONIDAE	<i>Falco ruficularis</i>	x					
FALCONIFORMES	FALCONIDAE	<i>Falco sparverius</i>			x	x		
APODIFORMES	TROCHILIDAE	<i>Florisuga mellivora</i>			x	x	x	
PASSERIFORMES	FORMICARIIDAE	<i>Formicarius analis</i>		x		x	x	x
PASSERIFORMES	FORMICARIIDAE	<i>Formicarius colma</i>						x
PSITTACIFORMES	PSITTACIDAE	<i>Forpus modestus</i>	x					
PSITTACIFORMES	PSITTACIDAE	<i>Forpus xanthopterygius</i>	x		x			
PASSERIFORMES	FURNARIIDAE	<i>Furnarius leucopus</i>	x			x	x	x
GALBULIFORMES	GALBULIDAE	<i>Galbalcyrhynchus leucotis</i>	x					
GALBULIFORMES	GALBULIDAE	<i>Galbula cyanescens</i>			x		x	x
ACCIPITRIFORMES	ACCIPITRIDAE	<i>Gampsonyx swainsonii</i>	x					
PASSERIFORMES	THRAUPIDAE	<i>Geospizopsis plebejus</i>			x			
PASSERIFORMES	PARULIDAE	<i>Geothlypis aequinoctialis</i>		x	x			x
COLUMBIFORMES	COLUMBIDAE	<i>Geotrygon montana</i>		x			x	
ACCIPITRIFORMES	ACCIPITRIDAE	<i>Geranoaetus melanoleucus</i>		x	x		x	
ACCIPITRIFORMES	ACCIPITRIDAE	<i>Geranoaetus polyosoma</i>		x	x			
ACCIPITRIFORMES	ACCIPITRIDAE	<i>Geranospiza caerulescens</i>				x		
STRIGIFORMES	STRIGIDAE	<i>Glaucidium brasilianum</i>			x			
PASSERIFORMES	FURNARIIDAE	<i>Glyphorhynchus spirurus</i>					x	x
PASSERIFORMES	GRALLARIIDAE	<i>Grallaria albigula</i>						x
PASSERIFORMES	GRALLARIIDAE	<i>Grallaria carrikeri</i>		x				
PASSERIFORMES	GRALLARIIDAE	<i>Grallaria guatemalensis</i>				x		x
PASSERIFORMES	GRALLARIIDAE	<i>Grallaria squamigera</i>					x	

Order	Family	Species	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6
PASSERIFORMES	GRALLARIIDAE	<i>Grallaricula flavirostris</i>		x	x			
PSITTACIFORMES	PSITTACIDAE	<i>Graydidascalus brachyurus</i>	x					
PASSERIFORMES	COTINGIDAE	<i>Gymnoderus foetidus</i>	x					
PASSERIFORMES	CARDINALIDAE	<i>Habia rubica</i>				x		
ACCIPITRIFORMES	ACCIPITRIDAE	<i>Harpagus bidentatus</i>					x	
APODIFORMES	TROCHILIDAE	<i>Heliangelus viola</i>		x				
ACCIPITRIFORMES	ACCIPITRIDAE	<i>Helicolestes hamatus</i>				x		
APODIFORMES	TROCHILIDAE	<i>Heliodoxa aurescens</i>					x	
APODIFORMES	TROCHILIDAE	<i>Heliodoxa leadbeateri</i>		x	x			
APODIFORMES	TROCHILIDAE	<i>Heliomaster longirostris</i>			x			
APODIFORMES	TROCHILIDAE	<i>Heliiothryx auritus</i>					x	x
PASSERIFORMES	THRAUPIDAE	<i>Hemithraupis flavicollis</i>					x	
PASSERIFORMES	TYRANNIDAE	<i>Hemitriccus griseipectus</i>						x
PASSERIFORMES	TYRANNIDAE	<i>Hemitriccus iohannis</i>						x
PASSERIFORMES	TYRANNIDAE	<i>Hemitriccus rufigularis</i>					x	
PASSERIFORMES	TROGLODYTIDAE	<i>Henicorhina leucophrys</i>		x			x	x
FALCONIFORMES	FALCONIDAE	<i>Herpetotheres cachinnans</i>	x			x		
PASSERIFORMES	TYRANNIDAE	<i>Hirundinea ferruginea</i>		x	x		x	
PASSERIFORMES	VIREONIDAE	<i>Hylophilus thoracicus</i>						x
PASSERIFORMES	THAMNOPHILIDAE	<i>Hylophylax naevius</i>					x	
PASSERIFORMES	THAMNOPHILIDAE	<i>Hypocnemis peruviana</i>		x			x	x
PASSERIFORMES	THAMNOPHILIDAE	<i>Hypocnemis subflava</i>					x	x
FALCONIFORMES	FALCONIDAE	<i>Ibycter americanus</i>				x	x	x
PASSERIFORMES	ICTERIDAE	<i>Icterus chryscephalus</i>	x					
PASSERIFORMES	ICTERIDAE	<i>Icterus croconotus</i>	x	x	x		x	
ACCIPITRIFORMES	ACCIPITRIDAE	<i>Ictinia plumbea</i>	x			x	x	x
PASSERIFORMES	TITYRIDAE	<i>Iodopleura isabellae</i>						x
PASSERIFORMES	THRAUPIDAE	<i>Iridosornis analis</i>					x	
PASSERIFORMES	THRAUPIDAE	<i>Iridosornis jelskii</i>			x			
PASSERIFORMES	THRAUPIDAE	<i>Iridosornis reinhardti</i>		x	x			
PASSERIFORMES	THRAUPIDAE	<i>Ixothraupis punctata</i>		x	x		x	x

Order	Family	Species	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6
PASSERIFORMES	THRAUPIDAE	<i>Ixothraupis xanthogastra</i>	x	x		x	x	x
CHARADRIIFORMES	JACANIDAE	<i>Jacana jacana</i>	x					
APODIFORMES	TROCHILIDAE	<i>Klais guimeti</i>		x	x			
PASSERIFORMES	TYRANNIDAE	<i>Knipolegus aterrimus</i>		x	x			
PASSERIFORMES	TYRANNIDAE	<i>Knipolegus poecilurus</i>					x	
APODIFORMES	TROCHILIDAE	<i>Lafresnaya lafresnayi</i>			x			
PASSERIFORMES	ICTERIDAE	<i>Lamprosar tanagrinus</i>	x					
PASSERIFORMES	THRAUPIDAE	<i>Lamprospiza melanoleuca</i>						x
PASSERIFORMES	THRAUPIDAE	<i>Lanio versicolor</i>		x		x	x	x
PASSERIFORMES	TYRANNIDAE	<i>Legatus leucophaeus</i>	x	x				
PASSERIFORMES	ICTERIDAE	<i>Leistes bellicosus</i>	x					
PASSERIFORMES	FURNARIIDAE	<i>Lepidocolaptes fatimalimae</i>		x	x		x	x
PASSERIFORMES	PIPRIDAE	<i>Lepidothrix coronata</i>					x	
PASSERIFORMES	FURNARIIDAE	<i>Leptasthenura pileata</i>			x			
PASSERIFORMES	TYRANNIDAE	<i>Leptopogon superciliaris</i>					x	
COLUMBIFORMES	COLUMBIDAE	<i>Leptotila rufaxilla</i>	x	x	x	x	x	x
COLUMBIFORMES	COLUMBIDAE	<i>Leptotila verreauxi</i>	x	x	x	x	x	
APODIFORMES	TROCHILIDAE	<i>Lesbia nuna</i>			x			
PASSERIFORMES	RHINOCRYPTIDAE	<i>Liosceles thoracicus</i>		x				x
PASSERIFORMES	COTINGIDAE	<i>Lipaugus vociferans</i>	x	x	x		x	x
PASSERIFORMES	FURNARIIDAE	<i>Lochmias nematura</i>					x	
APODIFORMES	TROCHILIDAE	<i>Loddigesia mirabilis</i>			x			
PASSERIFORMES	TYRANNIDAE	<i>Lophotriccus pileatus</i>		x	x		x	x
PASSERIFORMES	TYRANNIDAE	<i>Lophotriccus vitiosus</i>				x		
PASSERIFORMES	THRAUPIDAE	<i>Loriotus luctuosus</i>		x				x
PASSERIFORMES	THRAUPIDAE	<i>Loriotus rufiventer</i>					x	
GALBULIFORMES	BUCCONIDAE	<i>Malacoptila semicineta</i>						x
PASSERIFORMES	PIPRIDAE	<i>Manacus manacus</i>	x					
PASSERIFORMES	TYRANNIDAE	<i>Mecocerculus poecilocercus</i>				x	x	
CORACIIFORMES	ALCEDINIDAE	<i>Megaceryle torquata</i>	x			x	x	
PASSERIFORMES	TYRANNIDAE	<i>Megarynchus pitangua</i>	x					x

Order	Family	Species	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6
PICIFORMES	PICIDAE	<i>Melanerpes cruentatus</i>	x	x	x	x	x	x
PASSERIFORMES	MELANOPAREIIDAE	<i>Melanopareia maranonica</i>		x				
ANSERIFORMES	ANATIDAE	<i>Merganetta armata</i>			x		x	
PELECANIFORMES	THRESKIORNITHIDAE	<i>Mesembrinibis cayennensis</i>					x	
APODIFORMES	TROCHILIDAE	<i>Metallura tyrianthina</i>		x			x	
COLUMBIFORMES	COLUMBIDAE	<i>Metriopelia melanoptera</i>			x			
FALCONIFORMES	FALCONIDAE	<i>Micrastur buckleyi</i>				x		
FALCONIFORMES	FALCONIDAE	<i>Micrastur gilvicollis</i>				x		x
FALCONIFORMES	FALCONIDAE	<i>Micrastur ruficollis</i>		x				x
FALCONIFORMES	FALCONIDAE	<i>Micrastur semitorquatus</i>				x	x	
PASSERIFORMES	TROGLODYTIDAE	<i>Microcerculus marginatus</i>				x	x	x
GALBULIFORMES	BUCCONIDAE	<i>Micromonacha lanceolata</i>		x				
PASSERIFORMES	THAMNOPHILIDAE	<i>Microrhopias quixensis</i>						x
PASSERIFORMES	FURNARIIDAE	<i>Microxenops milleri</i>						x
FALCONIFORMES	FALCONIDAE	<i>Milvago chimachima</i>	x	x		x	x	
PASSERIFORMES	MIMIDAE	<i>Mimus longicaudatus</i>			x			
PASSERIFORMES	TYRANNIDAE	<i>Mionectes oleagineus</i>					x	
PASSERIFORMES	TYRANNIDAE	<i>Mionectes olivaceus</i>					x	
PASSERIFORMES	TYRANNIDAE	<i>Mionectes striaticollis</i>		x	x			x
PASSERIFORMES	ICTERIDAE	<i>Molothrus bonariensis</i>	x		x			x
PASSERIFORMES	ICTERIDAE	<i>Molothrus oryzivorus</i>	x			x	x	x
CORACIIFORMES	MOMOTIDAE	<i>Momotus aequatorialis</i>		x		x		
CORACIIFORMES	MOMOTIDAE	<i>Momotus momota</i>	x	x	x	x	x	x
GALBULIFORMES	BUCCONIDAE	<i>Monasa morphoeus</i>		x			x	
GALBULIFORMES	BUCCONIDAE	<i>Monasa nigrifrons</i>	x			x	x	x
ACCIPITRIFORMES	ACCIPITRIDAE	<i>Morphnus guianensis</i>						x
PASSERIFORMES	TURDIDAE	<i>Myadestes ralloides</i>		x				x
PASSERIFORMES	TYRANNIDAE	<i>Myiarchus cephalotes</i>		x				
PASSERIFORMES	TYRANNIDAE	<i>Myiarchus ferox</i>	x		x	x	x	x
PASSERIFORMES	TYRANNIDAE	<i>Myiarchus tuberculifer</i>	x	x	x	x	x	x
PASSERIFORMES	TYRANNIDAE	<i>Myiarchus tyrannulus</i>		x	x			

Order	Family	Species	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6
PASSERIFORMES	TYRANNIDAE	<i>Myiobius barbatus</i>					x	x
PASSERIFORMES	PARULIDAE	<i>Myioborus melanocephalus</i>		x	x		x	
PASSERIFORMES	PARULIDAE	<i>Myioborus miniatus</i>		x	x		x	x
PASSERIFORMES	TYRANNIDAE	<i>Myiodynastes bairdii</i>			x			
PASSERIFORMES	TYRANNIDAE	<i>Myiodynastes chrysocephalus</i>		x	x			x
PASSERIFORMES	TYRANNIDAE	<i>Myiodynastes luteiventris</i>					x	
PASSERIFORMES	TYRANNIDAE	<i>Myiodynastes maculatus</i>					x	x
PASSERIFORMES	TYRANNIDAE	<i>Myiopagis caniceps</i>		x			x	x
PASSERIFORMES	TYRANNIDAE	<i>Myiopagis gaimardii</i>	x			x	x	x
PASSERIFORMES	TYRANNIDAE	<i>Myiophobus fasciatus</i>		x	x		x	x
PASSERIFORMES	TYRANNIDAE	<i>Myiophobus flavicans</i>		x	x	x	x	
PASSERIFORMES	TYRANNIDAE	<i>Myiornis ecaudatus</i>						x
PASSERIFORMES	PARULIDAE	<i>Myiothlypis bivittata</i>						x
PASSERIFORMES	PARULIDAE	<i>Myiothlypis coronata</i>		x	x			x
PASSERIFORMES	PARULIDAE	<i>Myiothlypis fulvicauda</i>		x			x	x
PASSERIFORMES	PARULIDAE	<i>Myiothlypis luteoviridis</i>		x	x			
PASSERIFORMES	PARULIDAE	<i>Myiothlypis nigrocristata</i>		x	x			
PASSERIFORMES	TYRANNIDAE	<i>Myiotriccus ornatus</i>		x			x	
PASSERIFORMES	TYRANNIDAE	<i>Myiozetetes granadensis</i>	x			x	x	x
PASSERIFORMES	TYRANNIDAE	<i>Myiozetetes luteiventris</i>						x
PASSERIFORMES	TYRANNIDAE	<i>Myiozetetes similis</i>	x	x	x	x	x	x
PASSERIFORMES	THAMNOPHILIDAE	<i>Myrmelastes leucostigma</i>					x	
PASSERIFORMES	THAMNOPHILIDAE	<i>Myrmoborus leucophrys</i>		x				x
PASSERIFORMES	THAMNOPHILIDAE	<i>Myrmoborus lophotes</i>						x
PASSERIFORMES	THAMNOPHILIDAE	<i>Myrmoborus myotherinus</i>						x
PASSERIFORMES	THAMNOPHILIDAE	<i>Myrmophylax atrothorax</i>					x	
PASSERIFORMES	GRALLARIIDAE	<i>Myrmothera campanisona</i>						x
PASSERIFORMES	THAMNOPHILIDAE	<i>Myrmotherula assimilis</i>						x
PASSERIFORMES	THAMNOPHILIDAE	<i>Myrmotherula axillaris</i>					x	x
PASSERIFORMES	THAMNOPHILIDAE	<i>Myrmotherula brachyura</i>					x	x
PASSERIFORMES	THAMNOPHILIDAE	<i>Myrmotherula menetriesii</i>				x		x

Order	Family	Species	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6
PASSERIFORMES	THAMNOPHILIDAE	<i>Myrmotherula sclateri</i>						x
APODIFORMES	TROCHILIDAE	<i>Myrtis fanny</i>		x	x			
PASSERIFORMES	THRAUPIDAE	<i>Nemosia pileata</i>		x				
GALBULIFORMES	BUCCONIDAE	<i>Notharchus hyperrhynchus</i>				x		
TINAMIFORMES	TINAMIDAE	<i>Nothocercus nigrocapillus</i>		x				
CAPRIMULGIFORMES	NYCTIBIIDAE	<i>Nyctibius grandis</i>				x		
PELECANIFORMES	ARDEIDAE	<i>Nycticorax nycticorax</i>			x		x	
CAPRIMULGIFORMES	CAPRIMULGIDAE	<i>Nyctidromus albicollis</i>			x			
CAPRIMULGIFORMES	CAPRIMULGIDAE	<i>Nyctiphrynus ocellatus</i>						x
GALBULIFORMES	BUCCONIDAE	<i>Nystalus obamai</i>						x
PASSERIFORMES	TYRANNIDAE	<i>Ochthoeca fumicolor</i>		x	x			
PASSERIFORMES	TYRANNIDAE	<i>Ochthoeca rufipectoralis</i>		x	x			
APODIFORMES	TROCHILIDAE	<i>Ocreatus underwoodii</i>					x	
GALLIFORMES	ODONTOPHORIDAE	<i>Odontophorus stellatus</i>					x	
OPISTHOCOMIFORMES	OPISTHOCOMIDAE	<i>Opisthocomus hoazin</i>	x			x	x	
PASSERIFORMES	TYRANNIDAE	<i>Ornithion inerme</i>					x	
PASSERIFORMES	HIRUNDINIDAE	<i>Orochelidon murina</i>			x			
GALLIFORMES	CRACIDAE	<i>Ortalis guttata</i>	x	x	x	x	x	x
PSITTACIFORMES	PSITTACIDAE	<i>Orthopsittaca manilatus</i>				x	x	
PASSERIFORMES	TITYRIDAE	<i>Pachyramphus castaneus</i>		x	x			x
PASSERIFORMES	TYRANNIDAE	<i>Pachyramphus marginatus</i>					x	
PASSERIFORMES	TITYRIDAE	<i>Pachyramphus polychopterus</i>	x					x
PASSERIFORMES	TITYRIDAE	<i>Pachyramphus versicolor</i>		x	x			
PASSERIFORMES	TITYRIDAE	<i>Pachyramphus viridis</i>		x	x			
APODIFORMES	APODIDAE	<i>Panyptila cayennensis</i>				x		x
GRUIFORMES	RALLIDAE	<i>Pardirallus nigricans</i>		x	x	x		
PASSERIFORMES	THRAUPIDAE	<i>Paroaria gularis</i>	x					x
COLUMBIFORMES	COLUMBIDAE	<i>Patagioenas cayennensis</i>	x				x	x
COLUMBIFORMES	COLUMBIDAE	<i>Patagioenas fasciata</i>		x	x	x	x	x
COLUMBIFORMES	COLUMBIDAE	<i>Patagioenas plumbea</i>	x	x	x	x	x	x
COLUMBIFORMES	COLUMBIDAE	<i>Patagioenas speciosa</i>						x



Order	Family	Species	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6
GALLIFORMES	CRACIDAE	<i>Penelope jacquacu</i>		x		x	x	x
GALLIFORMES	CRACIDAE	<i>Penelope montagnii</i>		x	x			
PASSERIFORMES	HIRUNDINIDAE	<i>Petrochelidon pyrrhonota</i>			x			
PASSERIFORMES	TYRANNIDAE	<i>Phaeomyias murina</i>	x	x	x			
APODIFORMES	TROCHILIDAE	<i>Phaethornis hispidus</i>				x	x	x
APODIFORMES	TROCHILIDAE	<i>Phaethornis koepckeae</i>					x	
APODIFORMES	TROCHILIDAE	<i>Phaethornis malaris</i>		x	x	x	x	x
APODIFORMES	TROCHILIDAE	<i>Phaethornis ruber</i>		x	x			x
APODIFORMES	TROCHILIDAE	<i>Phaethornis stuarti</i>						x
APODIFORMES	TROCHILIDAE	<i>Phaethornis syrmatophorus</i>		x	x			
SULIFORMES	PHALACROCORACIDAE	<i>Phalacrocorax brasilianus</i>						x
TROGONIFORMES	TROGONIDAE	<i>Pharomachrus auriceps</i>			x			
TROGONIFORMES	TROGONIDAE	<i>Pharomachrus pavoninus</i>	x	x				
PASSERIFORMES	CARDINALIDAE	<i>Pheucticus aureoventris</i>						x
PASSERIFORMES	CARDINALIDAE	<i>Pheucticus chrysogaster</i>			x	x		
PASSERIFORMES	TROGLODYTIDAE	<i>Pheugopedius coraya</i>		x			x	
PASSERIFORMES	TROGLODYTIDAE	<i>Pheugopedius eisenmanni</i>					x	
PASSERIFORMES	TROGLODYTIDAE	<i>Pheugopedius genibarbis</i>						x
PASSERIFORMES	FURNARIIDAE	<i>Philydor erythrocerum</i>				x		
PASSERIFORMES	TYRANNIDAE	<i>Phyllomyias nigrocapillus</i>		x				
PASSERIFORMES	TYRANNIDAE	<i>Phyllomyias plumbeiceps</i>		x	x			
PASSERIFORMES	TYRANNIDAE	<i>Phylloscartes ophthalmicus</i>			x		x	
PASSERIFORMES	TYRANNIDAE	<i>Phylloscartes orbitalis</i>		x	x			
PASSERIFORMES	TYRANNIDAE	<i>Phylloscartes ventralis</i>		x				
CUCULIFORMES	CUCULIDAE	<i>Piaya cayana</i>	x	x	x	x	x	x
PICIFORMES	PICIDAE	<i>Picumnus aurifrons</i>						x
PICIFORMES	PICIDAE	<i>Picumnus lafresnayi</i>				x	x	
PICIFORMES	PICIDAE	<i>Picumnus rufiventris</i>	x					
PSITTACIFORMES	PSITTACIDAE	<i>Pionites leucogaster</i>					x	
PSITTACIFORMES	PSITTACIDAE	<i>Pionites melanocephalus</i>	x					
PSITTACIFORMES	PSITTACIDAE	<i>Pionus menstruus</i>	x	x		x	x	x

Order	Family	Species	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6
PSITTACIFORMES	PSITTACIDAE	<i>Pionus tumultuosus</i>	x	x	x			
PASSERIFORMES	THRAUPIDAE	<i>Pipraeidea melanonota</i>		x	x			x
PASSERIFORMES	COTINGIDAE	<i>Pipreola arcuata</i>		x	x			
PASSERIFORMES	COTINGIDAE	<i>Pipreola chlorolepidota</i>		x				
PASSERIFORMES	TYRANNIDAE	<i>Piprites chloris</i>					x	
PASSERIFORMES	CARDINALIDAE	<i>Piranga flava</i>		x	x	x	x	
PASSERIFORMES	CARDINALIDAE	<i>Piranga olivacea</i>		x				x
PASSERIFORMES	CARDINALIDAE	<i>Piranga rubra</i>		x	x		x	
PASSERIFORMES	CARDINALIDAE	<i>Piranga rubriceps</i>		x				
PASSERIFORMES	TYRANNIDAE	<i>Pitangus lictor</i>	x			x	x	x
PASSERIFORMES	TYRANNIDAE	<i>Pitangus sulphuratus</i>	x	x	x	x	x	x
PASSERIFORMES	TYRANNIDAE	<i>Platyrrinchus coronatus</i>	x					x
PASSERIFORMES	TYRANNIDAE	<i>Poecilotriccus latirostris</i>	x					x
PASSERIFORMES	TYRANNIDAE	<i>Poecilotriccus luluae</i>		x	x			
PASSERIFORMES	POLIOPTILIDAE	<i>Polioptila plumbea</i>	x	x	x			
PASSERIFORMES	THRAUPIDAE	<i>Poospiza hispaniolensis</i>		x	x			
GRUIFORMES	RALLIDAE	<i>Porphyrio martinica</i>	x					
PSITTACIFORMES	PSITTACIDAE	<i>Primolius couloni</i>				x		
PASSERIFORMES	HIRUNDINIDAE	<i>Progne chalybea</i>	x				x	
PASSERIFORMES	HIRUNDINIDAE	<i>Progne tapera</i>	x	x	x	x	x	x
PASSERIFORMES	ICTERIDAE	<i>Psarocolius angustifrons</i>	x	x	x	x	x	x
PASSERIFORMES	ICTERIDAE	<i>Psarocolius atrovirens</i>				x	x	x
PASSERIFORMES	ICTERIDAE	<i>Psarocolius bifasciatus</i>	x			x	x	x
PASSERIFORMES	ICTERIDAE	<i>Psarocolius decumanus</i>	x	x		x	x	x
PASSERIFORMES	ICTERIDAE	<i>Psarocolius viridis</i>				x		
ACCIPITRIFORMES	ACCIPITRIDAE	<i>Pseudastur albicollis</i>				x	x	x
PASSERIFORMES	THRAUPIDAE	<i>Pseudospingus xanthophthalmus</i>		x				
PASSERIFORMES	TYRANNIDAE	<i>Pseudotriccus ruficeps</i>		x				
PSITTACIFORMES	PSITTACIDAE	<i>Psittacara erythrogenys</i>			x			
PSITTACIFORMES	PSITTACIDAE	<i>Psittacara leucophthalmus</i>	x	x	x	x	x	x
PSITTACIFORMES	PSITTACIDAE	<i>Psittacara mitratus</i>		x	x			

Order	Family	Species	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6
PSITTACIFORMES	PSITTACIDAE	<i>Psittacara wagleri</i>		x	x	x		
PICIFORMES	RAMPHASTIDAE	<i>Pteroglossus azara</i>	x	x	x	x	x	x
PICIFORMES	RAMPHASTIDAE	<i>Pteroglossus castanotis</i>	x			x	x	x
PICIFORMES	RAMPHASTIDAE	<i>Pteroglossus inscriptus</i>		x				
APODIFORMES	TROCHILIDAE	<i>Pterophanes cyanopterus</i>				x		
PASSERIFORMES	THAMNOPHILIDAE	<i>Pygoptila stellaris</i>						x
PASSERIFORMES	HIRUNDINIDAE	<i>Pygochelidon cyanoleuca</i>	x	x	x	x	x	x
PASSERIFORMES	THAMNOPHILIDAE	<i>Pyriglena maura</i>					x	
PSITTACIFORMES	PSITTACIDAE	<i>Pyrilia barrabandi</i>				x	x	x
PASSERIFORMES	TYRANNIDAE	<i>Pyrocephalus rubinus</i>		x	x	x		
PASSERIFORMES	COTINGIDAE	<i>Pyroderus scutatus</i>		x			x	
PASSERIFORMES	TYRANNIDAE	<i>Pyrrhomyias cinnamomeus</i>		x	x			
PSITTACIFORMES	PSITTACIDAE	<i>Pyrrhura melanura</i>	x					
PSITTACIFORMES	PSITTACIDAE	<i>Pyrrhura roseifrons</i>		x			x	x
PSITTACIFORMES	PSITTACIDAE	<i>Pyrrhura rupicola</i>						x
PASSERIFORMES	COTINGIDAE	<i>Querula purpurata</i>					x	x
PICIFORMES	RAMPHASTIDAE	<i>Ramphastos tucanus</i>	x			x	x	
PICIFORMES	RAMPHASTIDAE	<i>Ramphastos vitellinus</i>	x	x				
PASSERIFORMES	POLIOPTILIDAE	<i>Ramphocaenus melanurus</i>	x					x
PASSERIFORMES	THRAUPIDAE	<i>Ramphocelus carbo</i>	x	x	x	x	x	x
PASSERIFORMES	THRAUPIDAE	<i>Ramphocelus nigrogularis</i>	x	x	x	x	x	
PASSERIFORMES	TYRANNIDAE	<i>Ramphotrigon megacephalum</i>					x	x
PASSERIFORMES	THRAUPIDAE	<i>Rauenia bonariensis</i>		x	x			x
PASSERIFORMES	THAMNOPHILIDAE	<i>Rhegmatorhina melanosticta</i>						x
PASSERIFORMES	THRAUPIDAE	<i>Rhopospina alaudina</i>		x	x			
PASSERIFORMES	THRAUPIDAE	<i>Rhopospina fruticeti</i>			x			
PASSERIFORMES	TYRANNIDAE	<i>Rhytipterna simplex</i>	x				x	x
ACCIPITRIFORMES	ACCIPITRIDAE	<i>Rostrhamus sociabilis</i>	x					
PASSERIFORMES	COTINGIDAE	<i>Rupicola peruvianus</i>		x			x	
ACCIPITRIFORMES	ACCIPITRIDAE	<i>Rupornis magnirostris</i>	x	x	x	x	x	x
PASSERIFORMES	THRAUPIDAE	<i>Saltator aurantiirostris</i>			x			

Order	Family	Species	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6
PASSERIFORMES	THRAUPIDAE	<i>Saltator coerulescens</i>	x	x				x
PASSERIFORMES	THRAUPIDAE	<i>Saltator grossus</i>		x		x		x
PASSERIFORMES	THRAUPIDAE	<i>Saltator maximus</i>	x	x		x	x	x
PASSERIFORMES	THRAUPIDAE	<i>Saltator striatipectus</i>			x			
CATHARTIFORMES	CATHARTIDAE	<i>Sarcoramphus papa</i>					x	x
PASSERIFORMES	TYRANNIDAE	<i>Sayornis nigricans</i>		x	x	x	x	x
PASSERIFORMES	TITYRIDAE	<i>Schiffornis major</i>	x					
PASSERIFORMES	THRAUPIDAE	<i>Schistochlamys melanopsis</i>		x				
PASSERIFORMES	THAMNOPHILIDAE	<i>Sclateria naevia</i>						x
PASSERIFORMES	RHINOCRYPTIDAE	<i>Scytalopus atratus</i>		x	x	x	x	
PASSERIFORMES	TYRANNIDAE	<i>Serpophaga cinerea</i>		x	x			x
PASSERIFORMES	PARULIDAE	<i>Setophaga fusca</i>		x				
PASSERIFORMES	PARULIDAE	<i>Setophaga pitiayumi</i>			x			x
PASSERIFORMES	THRAUPIDAE	<i>Sicalis flaveola</i>			x			
PASSERIFORMES	THRAUPIDAE	<i>Sicalis luteola</i>			x			
PASSERIFORMES	TYRANNIDAE	<i>Sirystes albocinereus</i>					x	
PASSERIFORMES	FURNARIIDAE	<i>Sittasomus griseicapillus</i>						x
PASSERIFORMES	COTINGIDAE	<i>Snowornis cryptolophus</i>		x				
PASSERIFORMES	THRAUPIDAE	<i>Sphenopsis melanotis</i>		x	x			x
PASSERIFORMES	FRINGILIIDAE	<i>Spinus atratus</i>		x	x	x		
PASSERIFORMES	FRINGILIIDAE	<i>Spinus magellanicus</i>		x	x	x	x	
PASSERIFORMES	FRINGILIIDAE	<i>Spinus psaltria</i>		x	x			
ACCIPITRIFORMES	ACCIPITRIDAE	<i>Spizaetus tyrannus</i>	x			x		
PASSERIFORMES	THRAUPIDAE	<i>Sporathraupis cyanocephala</i>		x	x			x
PASSERIFORMES	THRAUPIDAE	<i>Sporophila angolensis</i>	x			x	x	
PASSERIFORMES	THRAUPIDAE	<i>Sporophila caerulescens</i>	x				x	
PASSERIFORMES	THRAUPIDAE	<i>Sporophila castaneiventris</i>	x	x	x	x	x	x
PASSERIFORMES	THRAUPIDAE	<i>Sporophila crassirostris</i>	x					
PASSERIFORMES	THRAUPIDAE	<i>Sporophila lineola</i>	x					x
PASSERIFORMES	THRAUPIDAE	<i>Sporophila luctuosa</i>		x	x		x	x
PASSERIFORMES	THRAUPIDAE	<i>Sporophila murallae</i>	x					x

Order	Family	Species	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6
PASSERIFORMES	THRAUPIDAE	<i>Sporophila nigricollis</i>		x	x			x
PASSERIFORMES	HIRUNDINIDAE	<i>Stelgidopteryx ruficollis</i>	x			x	x	x
PASSERIFORMES	THRAUPIDAE	<i>Stilpnia argyrofenges</i>		x	x			
PASSERIFORMES	THRAUPIDAE	<i>Stilpnia cyanicollis</i>		x	x		x	x
PASSERIFORMES	THRAUPIDAE	<i>Stilpnia nigrocincta</i>	x	x	x	x	x	x
PASSERIFORMES	THRAUPIDAE	<i>Stilpnia viridicollis</i>		x	x			x
APODIFORMES	APODIDAE	<i>Streptoprocne rutila</i>			x		x	
APODIFORMES	APODIDAE	<i>Streptoprocne zonaris</i>	x	x	x	x	x	x
STRIGIFORMES	STRIGIDAE	<i>Strix albitarsis</i>		x	x			
STRIGIFORMES	STRIGIDAE	<i>Strix huhula</i>					x	
PASSERIFORMES	FURNARIIDAE	<i>Synallaxis albigularis</i>	x					x
PASSERIFORMES	FURNARIIDAE	<i>Synallaxis azarae</i>	x	x	x	x	x	x
PASSERIFORMES	FURNARIIDAE	<i>Synallaxis cabanisi</i>						x
PASSERIFORMES	FURNARIIDAE	<i>Syndactyla subalaris</i>		x				
APODIFORMES	APODIDAE	<i>Tachornis squamata</i>	x			x	x	x
PASSERIFORMES	HIRUNDINIDAE	<i>Tachycineta albiventer</i>	x			x	x	x
PASSERIFORMES	THRAUPIDAE	<i>Tachyphonus rufus</i>		x	x			
PASSERIFORMES	THRAUPIDAE	<i>Tachyphonus surinamus</i>					x	
PASSERIFORMES	THRAUPIDAE	<i>Tangara arthus</i>		x	x	x	x	x
PASSERIFORMES	THRAUPIDAE	<i>Tangara callophrys</i>						x
PASSERIFORMES	THRAUPIDAE	<i>Tangara chilensis</i>	x	x	x	x	x	x
PASSERIFORMES	THRAUPIDAE	<i>Tangara chrysotis</i>		x	x			
PASSERIFORMES	THRAUPIDAE	<i>Tangara cyanotis</i>		x			x	
PASSERIFORMES	THRAUPIDAE	<i>Tangara gyrola</i>		x			x	x
PASSERIFORMES	THRAUPIDAE	<i>Tangara labradorides</i>		x	x			
PASSERIFORMES	THRAUPIDAE	<i>Tangara mexicana</i>	x	x	x	x	x	x
PASSERIFORMES	THRAUPIDAE	<i>Tangara nigroviridis</i>		x			x	
PASSERIFORMES	THRAUPIDAE	<i>Tangara parzudakii</i>		x	x			
PASSERIFORMES	THRAUPIDAE	<i>Tangara schrankii</i>	x	x			x	x
PASSERIFORMES	THRAUPIDAE	<i>Tangara vassorii</i>		x	x			
PASSERIFORMES	THRAUPIDAE	<i>Tangara velia</i>				x	x	x

Order	Family	Species	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6
PASSERIFORMES	THRAUPIDAE	<i>Tangara xanthocephala</i>		x	x		x	
PASSERIFORMES	THAMNOPHILIDAE	<i>Taraba major</i>	x	x			x	
PASSERIFORMES	TYRANNIDAE	<i>Terenotriccus erythrurus</i>				x		
PASSERIFORMES	THRAUPIDAE	<i>Tersina viridis</i>	x	x	x	x	x	x
APODIFORMES	TROCHILIDAE	<i>Thalurania furcata</i>	x			x	x	x
PASSERIFORMES	THAMNOPHILIDAE	<i>Thamnomanes ardesiacus</i>						x
PASSERIFORMES	THAMNOPHILIDAE	<i>Thamnophilus amazonicus</i>						x
PASSERIFORMES	THAMNOPHILIDAE	<i>Thamnophilus doliatus</i>	x	x	x		x	x
PASSERIFORMES	THAMNOPHILIDAE	<i>Thamnophilus murinus</i>					x	
PASSERIFORMES	THAMNOPHILIDAE	<i>Thamnophilus palliatus</i>						x
PASSERIFORMES	THAMNOPHILIDAE	<i>Thamnophilus ruficapillus</i>		x				
PASSERIFORMES	THAMNOPHILIDAE	<i>Thamnophilus schistaceus</i>					x	
PASSERIFORMES	THAMNOPHILIDAE	<i>Thamnophilus unicolor</i>		x			x	
APODIFORMES	TROCHILIDAE	<i>Thaumasius taczanowskii</i>		x	x			
PASSERIFORMES	THRAUPIDAE	<i>Thlypopsis inornata</i>		x	x			
PASSERIFORMES	THRAUPIDAE	<i>Thlypopsis ruficeps</i>					x	x
PASSERIFORMES	THRAUPIDAE	<i>Thlypopsis sordida</i>		x	x	x	x	x
PASSERIFORMES	THRAUPIDAE	<i>Thlypopsis superciliaris</i>					x	
PASSERIFORMES	THRAUPIDAE	<i>Thraupis episcopus</i>	x	x	x	x	x	x
PASSERIFORMES	THRAUPIDAE	<i>Thraupis palmarum</i>	x	x	x	x	x	x
APODIFORMES	TROCHILIDAE	<i>Threnetes leucurus</i>		x			x	
PASSERIFORMES	FURNARIIDAE	<i>Thripophaga fusciceps</i>						x
PELECANIFORMES	ARDEIDAE	<i>Tigrisoma fasciatum</i>			x		x	
PELECANIFORMES	ARDEIDAE	<i>Tigrisoma lineatum</i>				x	x	
TINAMIFORMES	TINAMIDAE	<i>Tinamus tao</i>						x
PASSERIFORMES	TITYRIDAE	<i>Tityra cayana</i>	x	x		x		x
PASSERIFORMES	TITYRIDAE	<i>Tityra inquisitor</i>	x					x
PASSERIFORMES	TITYRIDAE	<i>Tityra semifasciata</i>	x	x			x	x
PASSERIFORMES	TYRANNIDAE	<i>Todirostrum chrysocrotaphum</i>					x	
PASSERIFORMES	TYRANNIDAE	<i>Todirostrum cinereum</i>		x	x		x	
PASSERIFORMES	TYRANNIDAE	<i>Todirostrum maculatum</i>	x					x

Order	Family	Species	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6
PASSERIFORMES	TYRANNIDAE	<i>Tolmomyias assimilis</i>	x			x		x
PASSERIFORMES	TYRANNIDAE	<i>Tolmomyias flaviventris</i>	x				x	x
PASSERIFORMES	TYRANNIDAE	<i>Tolmomyias poliocephalus</i>	x					x
PASSERIFORMES	TYRANNIDAE	<i>Tolmomyias sulphurescens</i>		x				
PSITTACIFORMES	PSITTACIDAE	<i>Touit huetii</i>						x
PASSERIFORMES	THRAUPIDAE	<i>Trichothraupis melanops</i>		x				
CHARADRIIFORMES	SCOLOPACIDAE	<i>Tringa solitaria</i>	x					
PASSERIFORMES	TROGLODYTIDAE	<i>Troglodytes aedon</i>	x	x	x	x	x	x
PASSERIFORMES	TROGLODYTIDAE	<i>Troglodytes solstitialis</i>		x	x			
TROGONIFORMES	TROGONIDAE	<i>Trogon curucui</i>		x	x	x	x	x
TROGONIFORMES	TROGONIDAE	<i>Trogon melanurus</i>					x	x
TROGONIFORMES	TROGONIDAE	<i>Trogon personatus</i>		x		x	x	x
TROGONIFORMES	TROGONIDAE	<i>Trogon ramonianus</i>				x	x	
TROGONIFORMES	TROGONIDAE	<i>Trogon viridis</i>	x	x			x	x
PASSERIFORMES	TURDIDAE	<i>Turdus albicollis</i>		x	x	x	x	x
PASSERIFORMES	TURDIDAE	<i>Turdus chiguanco</i>		x	x		x	
PASSERIFORMES	TURDIDAE	<i>Turdus fuscater</i>		x	x	x		x
PASSERIFORMES	TURDIDAE	<i>Turdus ignobilis</i>	x	x	x	x	x	x
PASSERIFORMES	TURDIDAE	<i>Turdus nigriceps</i>			x			x
PASSERIFORMES	TURDIDAE	<i>Turdus serranus</i>		x	x		x	
PASSERIFORMES	TYRANNIDAE	<i>Tyrannetes stolzmanni</i>					x	
PASSERIFORMES	TYRANNIDAE	<i>Tyrannopsis sulphurea</i>	x		x			x
PASSERIFORMES	TYRANNIDAE	<i>Tyrannulus elatus</i>	x					x
PASSERIFORMES	TYRANNIDAE	<i>Tyrannus melancholicus</i>	x	x	x	x	x	x
PASSERIFORMES	TYRANNIDAE	<i>Tyrannus tyrannus</i>				x	x	
STRIGIFORMES	TYTONIDAE	<i>Tyto alba</i>			x			x
CHARADRIIFORMES	CHARADRIIDAE	<i>Vanellus cayanus</i>					x	
PASSERIFORMES	VIREONIDAE	<i>Vireo olivaceus</i>	x	x	x		x	x
PASSERIFORMES	VIREONIDAE	<i>Vireolanius leucotis</i>	x	x	x		x	
PASSERIFORMES	THRAUPIDAE	<i>Volatinia jacarina</i>	x	x	x	x	x	x
PASSERIFORMES	FURNARIIDAE	<i>Xenops rutilans</i>					x	

Order	Family	Species	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6
PASSERIFORMES	FURNARIIDAE	<i>Xiphorhynchus guttatus</i>	x		x	x	x	x
PASSERIFORMES	FURNARIIDAE	<i>Xiphorhynchus obsoletus</i>						x
PASSERIFORMES	FURNARIIDAE	<i>Xiphorhynchus ocellatus</i>		x				
PASSERIFORMES	FURNARIIDAE	<i>Xiphorhynchus triangularis</i>		x				
COLUMBIFORMES	COLUMBIDAE	<i>Zenaida auriculata</i>		x	x			
PASSERIFORMES	TYRANNIDAE	<i>Zimmerius gracilipes</i>	x			x		x
PASSERIFORMES	TYRANNIDAE	<i>Zimmerius viridiflavus</i>					x	
PASSERIFORMES	EMBERIZIDAE	<i>Zonotrichia capensis</i>	x	x	x	x	x	x



**Supplementary data 3.** Resulting data of species accumulation curves.

<b>Sample</b>	<b>Zone 1</b>	<b>Zone 2</b>	<b>Zone 3</b>	<b>Zone 4</b>	<b>Zone 5</b>	<b>Zone 6</b>
1	30.46	24.82	26.84	21.83	28.33	31.43
2	68.4	147.48	81.28	55.05	128.57	97.75
3	92.64	151.04	126.32	73.63	150.08	145.39
4	108.28	168.63	167.55	93.76	166.97	168.13
5	118.16	185.16	176.23	110.73	185.44	187.39
6	128.7	196.08	187.96	127.66	199.58	204.55
7	136.34	204.55	195.8	132.25	208.49	215.98
8	147.01	216.48	200.83	139.91	214.3	222.1
9	153.41	227.91	202.01	147.08	220.03	231.88
10	157.77	234.88	212.03	154.79	227.29	239.2
11	163.1	247.82	215.14	158.16	232.14	243.72
12	168.7	252.25	219.32	167.08	238.78	251.18
13	170.9	258.02	221.09	171.84	243.02	257.01
14	171.96	265.52	229.64	173.47	249.35	259.4
15	174.18	272	234.01	182.41	255.66	266.66
16	177.39	277.21	240.1	189.44	260.4	272.26
17	180.32	283.42	243.9	192.88	268.22	276.42
18	181.74	289.32	247.85	200.07	270.94	279.15
19	182.99	296.27	249.13	203.62	277.43	283.72
20	183.37	300.64	252.81	210.04	282.53	286.95
21	187.17	303.56	254.63	213.69	287.61	290.64
22	189.23	305.48	256.85	216.91	293.37	292.74
23	191.77	308.1	258.94	221.81	296.95	295.96
24	193.78	312.75	263.29	226.97	300.18	296.54
25	195.61	315.04	265.22	230.93	302.98	299.03
26	195.52	316.9	266.31	233.24	306.92	301.5
27	197.05	317.59	267.36	239.75	311	305.64
28	197.97	318.99	268.72	243.83	313.6	308.42
29	198.38	320.6	270.66	247.46	316.45	312.38
30	199.34	322.17	271.42	252.41	322.91	313.59
31	199.9	324.63	272.65	257.21	324.86	314.59
32	200.78	326.09	274.33	260.52	328.96	317.51
33	201.9	326.56	275.97	263.85	332.56	319.16
34	202.52	326.58	276.23	263.64	336.2	320.95
35	204.18	326.42	275.84	269.76	338.95	321.71
36	203.85	329.83	278.35	272.41	341.93	323.54
37	204.88	330.02	279.61	276.4	346.54	325.43
38	204.44	329.95	280.48	281.09	349.11	327.41
39	206.08	331.74	279.61	284.78	352.55	327.61
40	205.9	332.91	280.71	291.69	355.82	329.47
41	206.96	332.72	280.6	294.42	361.05	331.77
42	205.9	333.58	281.49	297.92	363.78	331.54
43	205.93	334.07	282.01	303.13	367.63	332.93
44	206.19	335.62	283.25	307.33	368.13	334.48

<b>Sample</b>	<b>Zone 1</b>	<b>Zone 2</b>	<b>Zone 3</b>	<b>Zone 4</b>	<b>Zone 5</b>	<b>Zone 6</b>
45	206.96	337.31	283.8	312.42	371.91	336.19
46	207.61	338.25	284.51	314.2	372.59	337.8
47	207.62	339.75	285.5	319.9	374.74	339.24
48	207.45	340.93	286.41	322.75	377.95	339.4
49	207.43	342.1	286.48	325.36	381.11	340.38
50	207.6	343.32	286.43	329.3	383.45	341.81
51	207.06	344.17	286.59	336.03	384.92	342.66
52	206.93	345.51	285.95	341.28	387.79	343.36
53	207.33	346.23	286.16	346.77	392.12	344.91
54	207.06	347.41	286.93	353.7	393.96	345.51
55	207.62	348.12	287.88	356.99	394.34	347.46
56	207.39	349.86	288.47	361.74	394.42	348.16
57	207.02	351.66	288.49	367.3	396.42	349.59
58	206.78	352.53	288.26	375.99	397.91	350.21
59	206.72	352.68	289.1	384.18	399.79	351.87
60	206.9	353.46	289.83	392.02	400.78	353.11

**Supplementary data 4.** Plots of Species accumulation curves.

