

1 **Table A2.1.** List of species participating in mixed-species flocks across seasons in earthmound  
2 fields (i.e. a natural mosaic of open grassy-shrubby vegetation interspersed with patchy forest)  
3 in the Pantanal. Species were divided in four groups according to their frequency of attendance  
4 across seasons (i.e., mean) (Jullien and Thiollay 1998). The frequency of species attendance  
5 was calculated for dry, rainy, and flood (2019 and 2020) season, whereas the mean number of  
6 individuals per species was calculated across seasons (2019 and 2020). Moreover, *Polioptila*  
7 *dumicola* and *Casiornis rufus* seems to act, respectively, as the nuclear and the sentinel species  
8 of flocks. Species were also distinguished between residents and regional migrants (mi) in the  
9 Pantanal, following Nunes, A. P., et al. (2021) †.

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Species	Ind./ species	Fq. at. Dry	Fq. at. Rainy	Fq. at. Flood 1	Fq. at. Flood 2	Freq. of attend. (%)
Regular participants						
<i>Polioptila dumicola</i>	2.40	100	100	90.97	100	97.74
Common participants						
<i>Myiarchus tyrannulus</i>	1.63	92.55	46.01	76.02	80	73.64
<i>Conirostrum speciosum</i>	1.93	66.29	48.65	75.05	55.42	61.35
Less common participants						
<i>Hemitriccus margaritaceiventer</i>	1.06	32.60	12.12	55.74	62.92	40.84
<i>Picumnus albosquamatus</i>	1.34	53.33	20.56	49.07	35.42	39.60
<i>Lepidocolaptes angustirostris</i>	1.34	40.51	21.93	54.21	38.06	38.68

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<i>Casiornis rufus</i>	1.40	56.29	8.23	32.78	51.81	37.27
<i>Camptostoma obsoletum</i>	1.06	39.19	9.74	51.44	41.94	35.58
<i>Myiopagis gaimardii</i>	1.23	10.10	2.02	69.12	34.86	29.03
Irregular participants						
<i>Coryphospingus cucullatus</i>	1.45	20.96	20.11	32.08	12.08	21.31
<i>Veniliornis passerinus</i>	1.31	26.94	11.11	18.80	20.97	19.46
<i>Pachyramphus polychopterus</i> <sup>(mi)</sup>	1.10	11.74	19.26	32.64	12.08	18.93
<i>Synallaxis albilora</i>	1.39	19.19	4.76	36.85	14.86	18.92
<i>Nemosia pileata</i>	1.53	12.75	14.29	30.46	4.17	15.42
<i>Pachyramphus viridis</i> <sup>(mi)</sup>	1.19	23.61	22.22	12.55	0.00	14.59
<i>Icterus cayannensis</i>	1.45	21.46	1.01	21.94	7.92	13.08
<i>Xiphorhynchus picus</i>	1.13	4.67	1.59	13.43	29.58	12.32
<i>Galbula ruficauda</i>	1.18	18.31	0.00	12.64	16.94	11.97
<i>Formicivora rufa</i>	1.40	7.58	10.19	11.67	17.64	11.77
<i>Thamnophilus pelzelni</i>	1.42	17.40	6.57	11.34	7.64	10.74
<i>Coereba flaveola</i>	1.08	5.56	5.56	11.81	17.08	10.00
<i>Chionomesa fimbriata</i>	1.12	22.73	0.00	8.10	7.64	9.62
<i>Phaeomyias murina</i>	1.05	0.00	0.00	13.75	21.94	8.92
<i>Herpsilochmus longirostris</i>	1.67	2.27	3.03	11.94	16.67	8.48
<i>Cnemotriccus fuscatus</i>	1.00	12.88	6.39	13.47	0.00	8.18
<i>Ramphocelus carbo</i>	2.75	16.41	0.00	6.30	9.03	7.93
<i>Celeus lugubris</i>	1.13	10.61	4.63	4.26	9.86	7.34

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<i>Parula pitiayumi</i>	1.04	10.98	0.00	6.53	10.42	6.98
<i>Euphonia chlorotica</i>	1.07	1.14	0.00	8.10	15.97	6.30
<i>Sittasomus griseicapillus</i>	1.00	12.12	0.00	6.02	6.39	6.13
<i>Hylophilus pectoralis</i>	1.25	0.00	0.00	5.00	16.67	5.42
<i>Elaenia</i> sp1 <sup>(mi)</sup>	1.00	0.00	15.87	0.00	0.00	3.97
<i>Volatinia jacarina</i> <sup>(mi)</sup>	2.50	0.00	15.69	0.00	0.00	3.92
<i>Thamnophilus doliatus</i>	1.67	5.30	5.05	4.72	0.00	3.77
<i>Tachyphonus rufus</i>	1.27	5.05	0.00	0.00	6.25	2.83
<i>Pheugopedius genibarbis</i>	1.25	9.09	0.00	0.00	1.67	2.69
<i>Paroaria capitata</i>	1.67	0.00	1.85	1.39	6.94	2.55
<i>Inezia inornata</i> <sup>(mi)</sup>	1.00	9.85	0.00	0.00	0.00	2.46
<i>Piaya cayana</i>	1.00	1.01	0.00	4.17	4.17	2.34
<i>Sporophila angolensis</i>	1.13	0.00	0.00	2.78	6.25	2.26
<i>Antilophia galeata</i>	1.00	0.00	0.00	0.69	8.33	2.26
<i>Sporophila collaris</i>	1.00	3.28	5.56	0.00	0.00	2.21
<i>Myiarchus ferox</i>	1.25	0.00	2.78	0.00	5.56	2.08
<i>Megarynchus pitangua</i>	1.00	0.00	0.00	0.00	8.33	2.08
<i>Taraba major</i>	1.10	0.00	1.01	6.62	0.00	1.91
<i>Nystalus maculatus</i>	1.00	2.02	0.00	1.39	3.47	1.72
<i>Xenopsaris albinucha</i>	1.00	6.57	0.00	0.00	0.00	1.64
<i>Thraupis sayaca</i>	2.00	5.56	0.00	0.00	0.00	1.39
<i>Myiopagis viridicata</i> <sup>(mi)</sup>	1.00	2.02	0.00	0.00	3.06	1.27
<i>Hylocharis chrysura</i>	1.00	5.05	0.00	0.00	0.00	1.26

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<i>Pyriglena maura</i>	1.00	4.55	0.00	0.00	0.00	1.14
<i>Furnarius leucopus</i>	1.00	0.00	0.00	0.00	4.17	1.04
<i>Cercomacra melanaria</i>	2.00	0.00	0.00	0.00	4.17	1.04
<i>Tityra inquisitor</i>	2.00	0.00	0.00	0.00	4.17	1.04
<i>Xiphorhynchus guttatoides</i>	1.00	1.01	0.00	0.00	2.78	0.95
<i>Campyloramphus trochilirostris</i>	1.00	0.00	0.00	0.00	3.75	0.94
<i>Anthracothorax nigricollis</i> <sup>(mi)</sup>	1.00	3.54	0.00	0.00	0.00	0.88
<i>Sublegatus modestus</i> <sup>(mi)</sup>	1.50	3.28	0.00	0.00	0.00	0.82
<i>Campephilus melanoleucus</i>	1.00	0.00	0.00	2.78	0.00	0.69
<i>Piculus chrysocloros</i>	1.00	0.00	0.00	0.00	2.78	0.69
<i>Elaenia sp2</i> <sup>(mi)</sup>	1.00	0.00	2.60	0.00	0.00	0.65
<i>Myiothlypis flaveola</i>	1.00	2.27	0.00	0.00	0.00	0.57
<i>Monasa nigrifrons</i>	1.00	0.00	0.00	0.00	2.08	0.52
<i>Myiozetetes cayanensis</i> <sup>(mi)</sup>	2.00	0.00	0.00	0.00	2.08	0.52
<i>Xiphocolaptes major</i>	1.00	0.00	0.00	0.00	2.08	0.52
<i>Trogon curucui</i>	1.00	0.00	2.02	0.00	0.00	0.51
<i>Cacicus cela</i>	3.00	0.00	1.59	0.00	0.00	0.40
<i>Tityra cayana</i> <sup>(mi)</sup>	2.00	0.00	0.00	1.39	0.00	0.35
<i>Vireo chivi</i> <sup>(mi)</sup>	1.00	0.00	0.00	0.93	0.00	0.23

11 †NUNES, A. P., et al. 2021. Birds of the Pantanal floodplains, Brazil: historical data, diversity, and

12 conservation. *Papéis Avulsos de Zoologia*, 61. e20216182.