

Analyses involving seed-eating birds

Although birds called granivores are often taken as seed predators, they may occasionally act as legitimate seed dispersers when they carry whole fruits or seeds in their beaks (e.g., psittacids; Tella et al. 2015) or pass seeds intact through the gut (e.g., psittacids and columbids; Blanco et al. 2016, Checon 2021). So, the distinction between granivores (in the sense of being a seed predator) or frugivore (i.e., a legitimate seed disperser) is not straightforward. To account for such cases, in the analyses involving the degree of frugivory (DF) reported in Wilman's (2014) Elton Traits dataset, besides considering DF as the percentages of fruits in the diets of birds as reported in the dataset (column "Diet-Fruit"), we also considered DF as the sum of the fruit and seed (column "Diet-Seed") contents. Below we reported results using the "composite DF" (i.e., summing the fruit and seed contents), which were similar to the results obtained with the "fruit-only DF" reported in the main text.

In our dataset of 250 species with sample size ≥ 10 , 53 (21.2%) have seeds in the diet according to Wilman (2014). The DF we obtained analyzing the contents of gastric and fecal samples were higher than the DF provided in Elton Traits (mean \pm SD = $33.3\% \pm 34.5\%$ and $27.6\% \pm 30.3\%$, respectively; $t = 4.48$, $df = 249$, $P < 0.001$). The greater the sample size the higher the absolute deviation between our DF estimates and Elton Traits values ($r = 0.23$, $N = 250$, $P < 0.001$). Likewise, absolute deviations correlated positively with DF ($r = 0.53$, $N = 250$, $P < 0.001$). For these two correlations, we used log-transformed sample sizes and $\log(n+1)$ absolute deviations. Most (55.6%) of the species had $DF \leq 20\%$, whereas 10.4% had $DF \geq 80\%$.

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Supplementary Table 1. The degree of frugivory (DF) for 251 bird species with a sample size of $N \geq 10$ (considering gastric and fecal samples pooled).

Family	Species	N	DF	Sources
Tinamidae	<i>Crypturellus soui</i>	13	69.2	27, 42
	<i>Crypturellus undulatus</i>	16	68.8	4, 20, 27, 42
	<i>Crypturellus parvirostris</i>	14	64.3	4, 19, 20, 21, 27, 42
	<i>Crypturellus tataupa</i>	32	75.0	16, 19, 20, 27, 42
	<i>Rhynchotus rufescens</i>	60	50.9	2, 4, 19, 27, 42
	<i>Nothura maculosa</i>	174	53.7	2, 4, 19, 20, 42, 47
Anatidae	<i>Cairina moschata</i>	14	75.0	19, 27, 42
	<i>Netta peposaca</i>	60	95.8	29
Cracidae	<i>Penelope superciliaris</i>	17	91.2	16, 20, 27, 42
Cuculidae	<i>Guira guira</i>	47	0.0	16, 19, 20, 24, 27, 42, 45
	<i>Crotophaga major</i>	10	20.0	42, 43
	<i>Crotophaga ani</i>	36	15.3	16, 19, 42
	<i>Tapera naevia</i>	12	12.5	16, 20, 22, 27, 42
	<i>Piaya cayana</i>	49	6.1	16, 20, 27, 30, 42
	<i>Coccyzus melacoryphus</i>	10	10.0	16, 18, 30, 32, 34
Odontophoridae	<i>Odontophorus capueira</i>	12	75.0	16, 19, 20, 27, 42
Columbidae	<i>Patagioenas cayennensis</i>	14	100.0	4, 19, 27, 42
	<i>Geotrygon montana</i>	12	91.7	1, 15, 21, 28, 42
	<i>Leptotila verreauxi</i>	29	93.1	4, 16, 19, 27, 35, 42
	<i>Leptotila rufaxilla</i>	23	87.0	16, 18, 19, 23, 27, 35
	<i>Zenaida auriculata</i>	24	100.0	2, 20, 24, 27, 42, 45, 47
	<i>Columbina talpacoti</i>	41	89.0	4, 16, 19, 27, 33, 34, 35, 42
	<i>Columbina squammata</i>	15	100.0	4, 16, 27, 42
Nyctibiidae	<i>Nyctibius griseus</i>	16	0.0	5, 16, 21, 42
Caprimulgidae	<i>Chordeiles acutipennis</i>	11	0.0	42
	<i>Nyctidromus albicollis</i>	28	3.6	4, 16, 21, 27, 30, 42
	<i>Setopagis parvula</i>	12	0.0	16, 32, 42
	<i>Hydropsalis torquata</i>	20	0.0	16, 21, 42
Apodidae	<i>Streptoprocne zonaris</i>	16	0.0	19, 20, 42
	<i>Chaetura meridionalis</i>	10	0.0	19, 42
Trochilidae	<i>Glaucis hirsutus</i>	14	0.0	20, 33, 36
	<i>Chlorostilbon mellisugus</i>	57	0.0	36
	<i>Leucippus fallax</i>	114	3.5	36
	<i>Saucerottia tobaci</i>	64	3.1	36
Rallidae	<i>Porphyrio martinica</i>	26	65.4	20, 27, 42
Charadriidae	<i>Vanellus chilensis</i>	18	2.8	2, 16, 24, 27, 42
Scolopacidae	<i>Gallinago paraguaiae</i>	16	15.6	2, 25, 27, 31, 42
Jacanidae	<i>Jacana jacana</i>	15	23.3	20, 24, 27, 42, 45
Accipitridae	<i>Ictinia plumbea</i>	15	0.0	16, 19, 20, 42
	<i>Buteogallus meridionalis</i>	19	0.0	20, 27, 42

	<i>Rupornis magnirostris</i>	33	0.0	4, 16, 20, 27, 42
Strigidae	<i>Megascops choliba</i>	11	4.5	16, 21, 27, 42
	<i>Glaucidium brasilianum</i>	16	6.3	5, 16, 20, 27, 42
	<i>Athene cunicularia</i>	17	0.0	16, 20, 27, 31, 42, 45
Trogonidae	<i>Pharomachrus pavoninus</i>	11	95.5	30, 38
	<i>Trogon melanurus</i>	41	52.8	38, 42
	<i>Trogon viridis</i>	40	53.7	5, 27, 38, 42
	<i>Trogon violaceus</i>	19	29.0	38
	<i>Trogon curucui</i>	45	64.5	38, 42
	<i>Trogon surrucura</i>	36	38.9	16, 20, 21, 27, 38, 42
	<i>Trogon rufus</i>	33	25.7	16, 27, 28, 38, 42
	<i>Trogon collaris</i>	21	23.8	38
	<i>Trogon personatus</i>	22	20.4	38
Momotidae	<i>Electron platyrhynchum</i>	28	1.8	38
	<i>Baryphthengus martii</i>	32	42.9	38
	<i>Baryphthengus ruficapillus</i>	20	25.0	16, 20, 27, 42
	<i>Momotus momota</i>	85	26.5	1, 30, 34, 38, 42
Galbulidae	<i>Galbula albirostris</i>	14	0.0	11, 30, 42
	<i>Galbula ruficauda</i>	11	0.0	21, 22, 27, 33, 42
	<i>Galbula dea</i>	10	0.0	11
Bucconidae	<i>Nystalus chacuru</i>	12	0.0	16, 42
	<i>Nystalus maculatus</i>	11	18.2	4, 27, 42
	<i>Monasa nigrifrons</i>	10	0.0	42, 43
Capitonidae	<i>Capito niger</i>	41	87.8	38, 42
	<i>Eubucco richardsoni</i>	16	56.3	38
Ramphastidae	<i>Ramphastos toco</i>	26	73.1	4, 20, 27, 38, 42
	<i>Ramphastos tucanus</i>	26	92.3	30, 38, 42
	<i>Ramphastos vitellinus</i>	35	98.6	27, 30, 38, 42
	<i>Selenidera reinwardii</i>	25	100.0	38
	<i>Pteroglossus inscriptus</i>	25	100.0	4, 6, 38, 42
	<i>Pteroglossus aracari</i>	14	89.3	5, 20, 27, 38, 42
	<i>Pteroglossus castanotis</i>	17	91.2	4, 16, 38, 42
	<i>Pteroglossus azara</i>	18	94.4	38
	<i>Pteroglossus bitorquatus</i>	13	100.0	38, 42
Picidae	<i>Picumnus pygmaeus</i>	12	0.0	8, 42
	<i>Picumnus temminckii</i>	20	0.0	16, 28
	<i>Melanerpes candidus</i>	17	44.1	16, 19, 20, 27, 42
	<i>Melanerpes rubricapillus</i>	14	42.9	36
	<i>Dryocopus lineatus</i>	16	3.1	16, 20, 42
	<i>Celeus lugubris</i>	11	50.0	27, 42
	<i>Colaptes melanochloros</i>	18	11.1	4, 16, 21, 24, 27, 35, 42, 45
	<i>Colaptes campestris</i>	25	12.0	4, 16, 27, 42, 45

Falconidae	<i>Micrastur ruficollis</i>	15	0.0	15, 16, 20, 42	
	<i>Caracara plancus</i>	14	0.0	19, 20, 42, 45	
	<i>Milvago chimachima</i>	27	3.7	4, 16, 19, 20, 24, 27, 42	
	<i>Falco sparverius</i>	30	0.0	4, 16, 19, 20, 21, 27, 42	
	<i>Falco ruficularis</i>	10	0.0	20, 27, 42	
Psittacidae	<i>Brotogeris chiriri</i>	13	100.0	27, 42	
	<i>Pyrrhura frontalis</i>	11	86.4	16, 20, 27, 42	
	<i>Eupsittula aurea</i>	11	95.5	4, 42	
	<i>Psittacara leucophthalmus</i>	18	97.2	4, 21, 27, 42	
Thamnophilidae	<i>Taraba major</i>	23	2.2	27, 32, 34, 42, 44	
	<i>Thamnophilus doliatus</i>	38	10.5	32, 34, 36, 42	
	<i>Thamnophilus punctatus</i>	42	7.1	34, 42	
	<i>Thamnophilus pelzelni</i>	22	2.3	21, 22, 42	
	<i>Thamnophilus ambiguus</i>	12	8.3	22, 27, 41	
	<i>Thamnophilus caeruleus</i>	61	3.3	16, 20, 21, 22, 23, 32, 44	
	<i>Dysithamnus mentalis</i>	75	2.0	15, 16, 20, 21, 22, 23, 28, 34, 42	
	<i>Myrmotherula brachyura</i>	12	4.2	11, 42	
	<i>Myrmorchilus strigilatus</i>	27	0.0	8, 21, 37	
	<i>Herpsilochmus sellowi</i>	19	2.6	8	
	<i>Formicivora grisea</i>	126	2.8	33, 36, 41, 42	
	<i>Formicivora serrana</i>	18	8.3	8, 21	
	<i>Formicivora rufa</i>	14	3.6	18, 41, 42	
	<i>Pyriglena leucoptera</i>	41	0.0	16, 20, 21, 22, 23, 27, 28, 42	
	<i>Rhopornis ardesiacus</i>	10	0.0	22	
	Conopophagidae	<i>Conopophaga melanops</i>	10	0.0	22, 28, 42
		<i>Conopophaga lineata</i>	94	3.7	16, 20, 21, 22, 23, 42
	Rhinocryptidae	<i>Scelorchilus rubecula</i>	37	36.5	12
		<i>Scytalopus speluncae</i>	12	0.0	8, 42
Furnariidae	<i>Sclerurus scansor</i>	14	0.0	16, 20, 21, 22, 23	
	<i>Sittasomus griseicapillus</i>	60	2.5	11, 16, 20, 21, 22, 23, 27, 28, 34, 42	
	<i>Dendrocincla turdina</i>	16	0.0	16, 22, 27, 28, 42	
	<i>Dendrocolaptes platyrostris</i>	13	0.0	16, 19, 20, 28, 34, 42	
	<i>Xiphocolaptes albicollis</i>	10	0.0	22, 23, 27, 42	
	<i>Xiphorhynchus fuscus</i>	33	0.0	16, 21, 22, 23, 28	
	<i>Dendroplex picus</i>	30	0.0	36, 42	
	<i>Lepidocolaptes souleyetii</i>	19	5.3	15, 36	
	<i>Xenops minutus</i>	10	0.0	15, 16, 42	
	<i>Tarphonimus harterti</i>	10	0.0	37	
	<i>Furnarius rufus</i>	37	8.1	16, 20, 24, 27, 35, 42, 44, 45	
	<i>Cinclodes fuscus</i>	14	3.6	25, 31, 44, 45	
	<i>Anabazenops fuscus</i>	17	0.0	22, 23, 27	

	<i>Megaxenops parnaguae</i>	23	2.2	8
	<i>Dendroma rufum</i>	13	0.0	16, 20, 21, 22, 28, 42
	<i>Anabacerthia lichtensteini</i>	17	0.0	16, 20, 22, 42
	<i>Syndactyla rufosuperciliata</i>	46	6.5	16, 21, 22, 39
	<i>Automolus leucophthalmus</i>	27	1.9	16, 21, 22, 28, 34, 42
	<i>Certhiaxis cinnamomeus</i>	24	0.0	20, 27, 32, 36
	<i>Synallaxis cinerascens</i>	29	0.0	16, 21, 23, 27, 42
	<i>Synallaxis hellmayri</i>	13	50.0	8
	<i>Synallaxis ruficapilla</i>	19	5.3	16, 21, 22, 27
	<i>Synallaxis spixi</i>	13	0.0	16, 22, 27, 44
Tyrannidae	<i>Myiopagis viridicata</i>	29	37.9	16, 21, 22, 33, 36
	<i>Elaenia flavogaster</i>	20	77.5	14, 16, 20, 33, 34, 35, 41
	<i>Elaenia albiceps</i>	10	95.0	16, 18, 40, 44
	<i>Elaenia parvirostris</i>	29	67.2	16, 34, 36
	<i>Elaenia chiriquensis</i>	29	63.8	15, 18, 41, 42
	<i>Camptostoma obsoletum</i>	17	0.0	18, 20, 41, 42
	<i>Phaeomyias murina</i>	256	49.2	33, 36, 42
	<i>Capsiempis flaveola</i>	12	4.2	16, 20
	<i>Corythopis delalandi</i>	25	4.0	16, 20, 21, 22, 23, 42
	<i>Phylloscartes eximius</i>	10	0.0	16
	<i>Phylloscartes ventralis</i>	19	0.0	16, 21, 23, 39
	<i>Mionectes macconnelli</i>	41	63.4	1
	<i>Mionectes rufiventris</i>	44	62.5	16, 20, 21, 22, 23, 28
	<i>Leptopogon amaurocephalus</i>	48	10.4	16, 21, 22, 23, 28, 33, 34
	<i>Sublegatus modestus</i>	171	18.1	20, 36
	<i>Myiornis auricularis</i>	15	0.0	16, 20
	<i>Lophotriccus vitiosus</i>	10	10.0	11
	<i>Atalotriccus pilaris</i>	140	12.1	36
	<i>Hemitriccus diops</i>	14	7.1	11
	<i>Hemitriccus zosterops</i>	10	5.0	31, 34, 36
	<i>Hemitriccus margaritaceiventer</i>	12	8.3	16, 20, 21, 23
	<i>Tolmomyias sulphurescens</i>	23	2.2	16, 20, 21, 22, 23, 32, 39, 42, 44
	<i>Tolmomyias flaviventris</i>	25	8.0	22, 36, 42, 43
	<i>Platyrinchus mystaceus</i>	54	0.0	15, 16, 20, 21, 22, 23, 28, 34
	<i>Lathrotriccus euleri</i>	80	5.0	16, 21, 22, 23, 28, 34
	<i>Cnemotriccus fuscatus</i>	44	14.8	7, 16, 22, 36
	<i>Satrapa icterophrys</i>	13	34.6	18, 20, 44, 45
	<i>Agriornis murinus</i>	10	0.0	31
	<i>Gubernetes yetapa</i>	11	4.5	20, 27, 42
	<i>Fluvicola pica</i>	19	0.0	36

	<i>Colonia colonus</i>	14	0.0	16, 20, 27, 42
	<i>Myiozetetes similis</i>	18	61.1	14, 16, 20, 22, 27, 33, 42
	<i>Pitangus sulphuratus</i>	67	53.0	14, 16, 18, 20, 22, 24, 27, 32, 34, 35, 42, 44
	<i>Myiodynastes maculatus</i>	36	29.2	14, 16, 18, 19, 20, 22, 27, 32, 34, 42, 44
	<i>Megarynchus pitangua</i>	12	33.3	16, 19, 27
	<i>Empidonomus varius</i>	27	35.2	6, 16, 27, 34, 35, 42
	<i>Tyrannus melancholicus</i>	39	12.8	16, 19, 22, 24, 27, 33, 35, 41, 42, 44
	<i>Tyrannus savana</i>	21	19.0	16, 19, 24, 27, 42, 44, 45
	<i>Casiornis rufus</i>	11	4.5	32, 34
	<i>Myiarchus swainsoni</i>	14	50.0	14, 16, 22, 32, 42
	<i>Myiarchus ferox</i>	21	9.5	14, 22, 27, 30, 34, 35, 42
	<i>Myiarchus tyrannulus</i>	87	25.3	18, 22, 27, 34, 36, 42
Cotingidae	<i>Pyroderus scutatus</i>	16	56.3	16, 20, 27, 42
Pipridae	<i>Neopelma chrysolophum</i>	12	58.3	20, 23
	<i>Neopelma sulphureiventer</i>	10	10.0	37
	<i>Antilophia galeata</i>	19	100.0	20, 22
	<i>Chiroxiphia boliviana</i>	34	97.1	26
	<i>Chiroxiphia caudata</i>	109	84.9	16, 20, 22, 23, 27, 28
	<i>Lepidothrix serena</i>	106	72.6	1
	<i>Manacus manacus</i>	83	90.4	1, 9, 21, 22, 23, 27, 33, 42, 43
	<i>Pipra fasciicauda</i>	27	94.4	6, 34
	<i>Pseudopipra pipra</i>	253	75.5	1, 42
	<i>Ceratopipra erythrocephala</i>	59	89.0	1, 30, 42
Tityridae	<i>Schiffornis turdina</i>	16	31.3	1, 42, 43
	<i>Schiffornis virescens</i>	25	24.0	16, 20, 21, 22, 23, 28
	<i>Pachyramphus polychopterus</i>	18	13.9	16, 22, 42, 44
Vireonidae	<i>Cyclarhis gujanensis</i>	54	10.2	6, 16, 20, 22, 23, 24, 27, 34, 39, 42, 44, 45
	<i>Hylophilus flavipes</i>	215	50.7	36
	<i>Tunchiornis ochraceiceps</i>	13	0.0	11, 42
	<i>Vireo olivaceus</i>	114	21.5	6, 16, 30, 32, 34, 36, 42, 44
Corvidae	<i>Cyanocorax cyanomelas</i>	11	68.2	27, 42
	<i>Cyanocorax chrysops</i>	48	56.7	16, 27, 31, 34, 42
Troglodytidae	<i>Troglodytes aedon</i>	53	0.0	15, 16, 18, 22, 24, 27, 33, 36, 40, 41, 42, 44
Poliophtilidae	<i>Poliophtila plumbea</i>	85	7.1	36
Turdidae	<i>Turdus flavipes</i>	12	79.2	23, 28
	<i>Turdus leucomelas</i>	306	64.9	14, 16, 17, 20, 21, 22, 23, 27, 33, 34, 35, 41, 42
	<i>Turdus rufiventris</i>	233	64.2	14, 16, 17, 20, 21, 22, 23, 24, 27, 39, 44

	<i>Turdus amaurochalinus</i>	127	60.2	14, 16, 17, 22, 27, 34, 35, 41, 42, 44
	<i>Turdus nigriceps</i>	14	57.1	34, 39
	<i>Turdus albicollis</i>	157	67.5	1, 16, 17, 18, 21, 22, 23, 27, 28, 30, 43
Mimidae	<i>Mimus gilvus</i>	159	57.9	36
	<i>Mimus saturninus</i>	30	43.3	2, 3, 16, 18, 20, 27, 31, 35, 42, 44, 45
Passerellidae	<i>Atlapetes citrinellus</i>	14	0.0	39
Icteridae	<i>Cacicus haemorrhous</i>	24	56.3	16, 18, 27, 42
	<i>Icterus cayanensis</i>	24	14.6	16, 20, 30, 35, 42
	<i>Molothrus bonariensis</i>	20	62.5	16, 20, 24, 27, 42, 44, 45
	<i>Lamprosar tanagrinus</i>	16	9.4	37, 42
	<i>Gnorimopsar chopi</i>	11	27.3	16, 20, 27
	<i>Agelasticus thilius</i>	17	26.5	7, 24, 44, 45
Parulidae	<i>Parkesia noveboracensis</i>	98	0.0	36
	<i>Protonotaria citrea</i>	34	2.9	36
	<i>Geothlypis aequinoctialis</i>	22	4.5	16, 19, 21, 23, 32, 41, 42, 44, 45
	<i>Setophaga ruticilla</i>	15	0.0	36
	<i>Setophaga pitiayumi</i>	18	11.1	16, 20, 42
	<i>Myiothlypis flaveola</i>	53	2.8	21, 22, 34, 42
	<i>Myiothlypis leucoblephara</i>	58	5.2	10, 16, 21, 22, 23
	<i>Basileuterus culicivorus</i>	117	1.3	10, 15, 16, 20, 21, 22, 23, 27, 28, 34, 39, 42
Cardinalidae	<i>Piranga flava</i>	12	37.5	20, 27, 34, 42
	<i>Habia rubica</i>	26	21.2	15, 16, 22, 28, 42
Thraupidae	<i>Nemosia pileata</i>	11	0.0	16, 18, 22, 42
	<i>Chlorophanes spiza</i>	11	90.9	30, 42
	<i>Hemithraupis guira</i>	20	32.5	16, 42
	<i>Conirostrum bicolor</i>	121	0.8	36, 42
	<i>Conirostrum speciosum</i>	10	15.0	16, 42
	<i>Tachyphonus surinamus</i>	19	39.5	1
	<i>Tachyphonus coronatus</i>	73	43.8	14, 16, 21, 22, 23, 27, 28, 42
	<i>Tachyphonus rufus</i>	149	44.3	34, 36, 42
	<i>Trichothraupis melanops</i>	127	30.3	7, 16, 20, 21, 22, 23, 28, 34
	<i>Coryphospingus pileatus</i>	173	44.5	8, 22, 36, 41, 42
	<i>Coryphospingus cucullatus</i>	29	39.7	16, 42
	<i>Ramphocelus carbo</i>	33	51.5	1, 20, 34, 35, 42
	<i>Ramphocelus bresilius</i>	49	64.3	13, 18, 27, 41, 42
	<i>Cyanerpes cyaneus</i>	11	77.3	6, 18, 20, 42
	<i>Tersina viridis</i>	33	69.7	16, 20, 21, 27, 42
	<i>Dacnis cayana</i>	45	67.8	14, 16, 20, 27, 42
	<i>Saltatricula atricollis</i>	10	20.0	20, 42
	<i>Saltator similis</i>	80	40.6	14, 16, 20, 21, 22, 23, 27, 34

<i>Emberizoides herbicola</i>	14	10.7	20, 42
<i>Thlypopsis sordida</i>	11	45.5	14, 27, 34, 35, 39, 42
<i>Thlypopsis ruficeps</i>	23	34.8	16
<i>Coereba flaveola</i>	837	9.2	18, 27, 30, 36, 42
<i>Schistochlamys ruficapillus</i>	17	82.3	21, 27, 42
<i>Cissopis leverianus</i>	28	67.9	20, 27, 42
<i>Stilpnia cayana</i>	25	76.0	20, 21, 22, 27, 34, 35, 42
<i>Thraupis episcopus</i>	14	46.4	30, 42
<i>Thraupis sayaca</i>	107	66.4	14, 16, 18, 20, 22, 27, 34, 35, 39, 41, 42
<i>Thraupis glaucocolpa</i>	48	83.3	36

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