

Yoshikawa, T. and Isagi, Y. 2011. Dietary breadth of frugivorous birds in relation to their feeding strategies in the lowland forests of central Honshu, Japan. – *Oikos* 121: 1041–1052.

Supplementary material Appendix 1.

A matrix of associations between the investigated avian attributes. Cramer's V, which ranges from 0 (no association) to 1 (complete association), was calculated between categorical variables, and correlation ratio, which also ranges from 0 (no association) to 1 (complete association), was calculated between categorical and continuous variables. Parentheses show the calculated indices.

	Feeding type	Dependence	Seasonality	Gape width
Feeding type	-	-	-	-
Dependence	0.480 (V)	-	-	-
Seasonality	0.283 (V)	0.376 (V)	-	-
Gape width	0.291 (ratio)	0.495 (ratio)	0.188 (ratio)	-

Supplementary material Appendix 2.

Outline of the frugivory episodes of the 23 focal birds and other species in the analyzed database. We only included the frugivory episodes recorded in the lowland forests (<500-m altitude) in the study region.

Bird name	No. of frugivory episodes	No. of monthly records												No. of sub-bloc ks	No. of observers	No. of years
		Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.			
Common pigeon	29	3	1	0	1	0	0	0	1	5	4	9	5	16	15	9
Oriental turtle dove	50	3	1	0	0	2	3	1	1	3	11	15	10	26	25	17
Japanese pygmy woodpecker	23	8	0	0	0	0	0	0	0	1	3	5	6	15	17	12
Azure-winged magpie	56	10	3	0	1	0	2	1	2	6	2	12	17	28	35	22
Carrión crow	83	5	3	1	1	1	5	2	3	8	17	18	19	34	43	19
Large-billed crow	33	2	3	0	0	0	0	0	4	4	5	8	7	21	23	14
Japanese waxwing	33	1	8	13	8	3	0	0	0	0	0	0	0	17	23	13
Varied tit	31	5	2	1	0	0	1	0	1	4	5	5	7	16	24	15
Great tit	38	8	3	2	0	0	1	0	0	1	9	9	5	23	28	16
Brown-eared bulbul	342	94	33	11	16	3	9	4	2	13	24	49	84	63	89	27
Japanese white-eye	244	66	4	2	0	2	10	1	5	11	32	50	61	51	76	22
White-cheeked starling	100	22	2	1	0	0	9	8	9	11	5	12	21	39	50	20
Pale thrush	30	12	2	0	1	0	0	0	0	0	0	7	8	17	23	14
Brown-headed thrush	24	3	2	1	2	1	0	0	0	0	1	8	6	13	21	12
Naumann's thrush	92	33	6	5	1	0	0	0	0	0	1	14	32	33	46	22
Red-flanked bluetail	30	13	2	1	0	0	0	0	0	0	1	2	11	19	22	14
Daurian redstart	73	31	8	0	0	0	0	0	0	0	2	11	21	31	39	21

Grey-streaked flycatcher	23	0	0	0	0	0	0	0	0	6	17	0	0	11	17	12
Narcissus flycatcher	42	0	0	0	0	0	0	0	1	5	34	2	0	22	29	16
Eurasian tree sparrow	41	3	0	0	1	3	10	2	0	5	4	5	8	17	22	18
Grey-capped greenfinch	21	1	1	0	0	2	2	1	0	1	3	3	7	13	14	12
Hawfinch	39	10	4	2	2	0	0	0	0	0	1	6	14	18	21	19
Japanese grosbeak	46	7	7	6	1	3	1	1	0	5	2	5	8	24	31	17
The focal 23 birds	1523	340	95	46	35	20	53	21	29	89	183	255	357			
Other birds (37 species)	185	25	12	6	3	4	7	6	7	22	39	24	30			
All birds (60 species)	1708	365	107	52	38	24	60	27	36	111	222	279	387			