

Table A1. Food schedule of macaws during this study

Monday	Tuesday	Wednesday	Thursday	Friday
Apple	Pear	Papaya	Orange	Apple
Chicory	Celery	Cucumber	Courgette	Chicory
Beetroot	Carrot	Broccoli	Sweet potato	Beetroot

COMPOSITION

cereals, nuts (peeled peanuts 10%), derivatives of vegetable origin, vegetables, seeds (5%), minerals, oils and fats, fruit (apple 5%*), sugars, MOS, yucca

*dehydrated fruits and vegetables, % equivalent before drying

ANALYTICAL CONSTITUENTS

protein 15%, fat content 16%, crude fibre 3%, crude ash 7%, calcium 0.9%, phosphorus 0.6%, methionine 0.35%, lysine 0.8%, threonine 0.5%, tryptophan 0.15%, cystine 0.25%

ADDITIVES/KG

NUTRITIONAL ADDITIVES

vitamin A 8000 IU, vitamin D3 1650 IU, B-carotene 4.8 mg, vitamin E 95 mg, vitamin B1 8 mg, vitamin B2 17.5 mg, calcium-D-pantothenate 22 mg, vitamin B6 6.5 mg, vitamin B12 0.03 mg, vitamin C 55 mg, niacin 90 mg, folic acid 1.65 mg, biotin 0.29 mg, choline chloride 770 mg, 3b202 (iodine) 2.3 mg, 3b405 (copper) 11 mg, 3b503 (manganese) 110 mg, 3b605 (zinc) 105 mg, 3b802 (selenium) 0.11 mg, 3b811 (organic selenium) 0.11 mg

TECHNOLOGICAL ADDITIVES

antioxidants: with tocopherols, preservatives, bentonite

SENSORY ADDITIVES

colourants

Figure A1. P15 Tropical Pellet composition. Link to site: <https://www.versele-laga.com/en/de/nutribird/products/nutribird-p15tropical>

Table A2. Food presentation schedule. Both habituation and observation periods had randomised food presentations

Month	Day	Date	Food condition	Month	Day	Date	Food condition
February 2022	Friday	4	-Habituation period-	March 2022	Sunday	20	X
	Saturday	5			Monday	21	chopped
	Sunday	6			Tuesday	22	whole
	Monday	7	chopped		Wednesday	23	chopped
	Tuesday	8	whole		Thursday	24	chopped
	Wednesday	9	chopped		Friday	25	X
	Thursday	10	chopped		Saturday	26	X
	Friday	11	whole		Sunday	27	X
	Saturday	12			Monday	28	whole
	Sunday	13			Tuesday	29	chopped
	Monday	14	whole		Wednesday	30	chopped
	Tuesday	15	whole		Thursday	31	whole
	Wednesday	16	chopped	April 2022	Friday	1	X
	Thursday	17	whole		Saturday	2	X
	Friday	18	chopped		Sunday	3	X
	Saturday	19			Monday	4	X
	Sunday	20			Tuesday	5	chopped
	Monday	21	chopped		Wednesday	6	chopped
	Tuesday	22	whole		Thursday	7	whole
	Wednesday	23	chopped		Friday	8	X
	Thursday	24	-Start of observations-chopped		Saturday	9	X
	Friday	25	X		Sunday	10	X
	Saturday	26	X		Monday	11	chopped
	Sunday	27	X		Tuesday	12	whole
	Monday	28	whole		Wednesday	13	chopped
March 2022	Tuesday	1	whole		Thursday	14	chopped
	Wednesday	2	X		Friday	15	X
	Thursday	3	whole		Saturday	16	X
	Friday	4	X		Sunday	17	X
	Saturday	5			Monday	18	X
	Sunday	6			Tuesday	19	whole
	Monday	7	X		Wednesday	20	whole
	Tuesday	8	chopped		Thursday	21	chopped
	Wednesday	9	X		Friday	22	X
	Thursday	10	chopped		Saturday	23	X
	Friday	11	X		Sunday	24	X
	Saturday	12	X		Monday	25	whole
	Sunday	13	X		Tuesday	26	whole
	Monday	14	whole		Wednesday	27	whole
	Tuesday	15	X		Thursday	28	whole
	Wednesday	16	X		Friday	29	X
	Thursday	17	whole		Saturday	30	X
	Friday	18	X		Sunday	1	X
	Saturday	19	X		Monday	2	chopped
					Tuesday	3	whole
					Wednesday	4	-Last day of observations-chopped



Figure A2. Pictures of enclosure. Above: Bowl position, Below: Nails on trees and feeding devices