

Supplementary Table 1. Plant species, parts and ripeness stages consumed by 15 psittacine species in the Tambopata region of southeastern Peru. It is also mentioned the studies were some of the plant species were reported before. ^aPlant parts are defined as: sd= seed, pp= pulp, wf= whole fruit, ff= fruit, fl= flower, ne= nectar, ju= juice, lf= leaf, al= aril, ot= other, ?= undetermined part eaten, bu= floral buds. ^bRipeness Stages are: R= ripe, U= unripe. ^cAuthors are: Le= Lee et al. 2014, Mu= Munn 1988, Gi= Gilardi 1996, Ma= Matsufuji et al. 2021 (this study). ^dLocations are: TRC= Tambopata Research Center, T;M= Tambopata and Manu, T;ao;M= Tambopata and/or Manu, M= Manu, T= Tambopata. References: *Munn, C (1988) Macaw biology in Manu National Park, Perú. *The Newsletter and Journal of the ICBP/SSC Parrot Specialist Group*. 1(1): 18–21. *Gilardi, JD (1996) Ecology of parrots in the Peruvian Amazon: habitat use, nutrition, and geophagy. Ph.D. diss., Univ. of California, Davis, USA. * Lee, ATK, DJ Brightsmith, MP Vargas, KQ Leon, AJ Mejia & SJ Marsden (2014) Diet and geophagy across a western Amazonian parrot assemblage. *Biotropica* 46(3): 322–330.

Parrot Species/Plant Species	Plant Part ^{a,b}	Author ^c	Location ^d
Amazona farinosa (20 species)			
<i>Apuleia leiocarpa</i>	sd; pp U	Ma;Le	T
<i>Brosimum utile</i>	sd U	Ma	TRC
<i>Cordia lomatoloba</i>	wf R	Ma	TRC
<i>Couratari macrosperma</i>	sd R	Ma	TRC
<i>Ficus guianensis</i>	wf R	Ma	TRC
<i>Ficus maxima</i>	pp R	Ma	TRC
<i>Gallesia integrifolia</i>	sd	Ma	TRC
<i>Himatanthus sukuuba</i>	sd U	Ma	TRC
<i>Hymenaea oblongifolia</i>	sd R U	Ma;Le	T
<i>Hymenaea parvifolia</i>	sd R	Ma	TRC
<i>Inga acreana</i>	sd U	Ma	TRC
<i>Otoba parvifolia</i>	sd; pp; wf; al R	Ma;Le	T
<i>Pouteria guianensis</i>	sd R	Ma	TRC
<i>Protium cf. amazonicum</i>	sd R U	Ma	TRC
<i>Pseudolmedia laevis</i>	sd U; pp U; wf	Ma;Le;Gi	T;ao;M
<i>Quiina amazonica</i>	sd U	Ma	TRC
<i>Sapium glandulosum</i>	sd U	Ma;Le	T
<i>Sapium marmieri</i>	sd R U; pp	Ma;Le	T
<i>Tabernaemontana heterophylla</i>	sd; al R	Ma;Le	T
<i>Terminalia amazonia</i>	sd U	Ma	TRC
Amazona Ochrocephala (2 species)			
<i>Ochroma pyramidale</i>	?	Ma	TRC
<i>Salix humboldtiana</i>	fl	Ma	TRC
Ara ararauna (21 species)			
<i>Apeiba membranacea</i>	sd R	Ma	TRC
<i>Apuleia leiocarpa</i>	sd U	Ma	TRC
<i>Byrsonima putumayensis</i>	sd U	Ma	TRC
<i>Cariniana decandra</i>	sd U	Ma;Le	T
<i>Cecropia sciadophylla</i>	sd R; wf	Ma;Le	T
<i>Couratari macrosperma</i>	wf R	Ma	TRC

<i>Croton glandulosum</i>	sd U	Ma	TRC
<i>Dipteryx micrantha</i>	sd U; pp	Ma;Le	T
<i>Erythrina poeppigiana</i>	fl	Ma;Le	T
<i>Hevea guianensis</i>	sd U	Ma;Gi	T;ao;M
<i>Hymenaea oblongifolia</i>	pp R U	Ma	TRC
<i>Inga marginata</i>	al R	Ma	TRC
<i>Inga sp.(12)</i>	?	Ma	TRC
<i>Iriartea deltoidea (Iriartea ventricosa synonym)</i>	sd R; lf	Ma;Le;Mu;Gi	T;M
<i>Mauritia flexuosa</i>	pp R; sd R; lf	Ma;Le;Mu;Gi	T;M
<i>Mucuna sloanei</i>	sd U	Ma	TRC
<i>Ochroma pyramidale</i>	fl	Ma;Le	T
<i>Otoba parvifolia</i>	al R; sd U; pp	Ma;Le;Mu	TRC;M
<i>Sapium marmieri</i>	sd R	Ma	TRC
<i>Schizolobium parahyba (Schizolobium parahybum synonym)</i>	sd R; U	Ma;Gi	T;ao;M
<i>Socratea exorrhiza</i>	lf; pp U; wf	Ma;Le	T
Ara chloropterus (25 species)			
<i>Apuleia leiocarpa</i>	wf U	Ma	TRC
<i>Byrsonima crispera</i>	sd U	Ma	TRC
<i>Byrsonima putumayensis</i>	sd U	Ma	TRC
<i>Caryocar amygdaliforme</i>	wf R U; pp R; sd R	Ma;Le	T
<i>Couratari macrosperma</i>	bu	Ma	TRC
<i>Croton glandulosum</i>	sd R U	Ma	TRC
<i>Dipteryx micrantha</i>	sd R U; pp; lf; ot	Ma;Le	T
<i>Erythrina poeppigiana</i>	fl	Ma	TRC
<i>Eschweilera coriacea</i>	sd U	Ma;Le	T
<i>Euterpe precatória</i>	sd R; pp; wf	Ma;Le	T
<i>Ficus sp.(5)</i>	sd R	Ma	TRC
<i>Hura crepitans</i>	sd U	Ma	TRC
<i>Hymenaea oblongifolia</i>	sd; pp R U; wf	Ma;Le	T
<i>Inga acreana</i>	pp; al R	Ma;Le	T
<i>Inga cf. ruiziana</i>	al R	Ma	TRC
<i>Inga marginata</i>	al R	Ma	TRC
<i>Iriartea deltoidea</i>	wf U; pp; lf	Ma;Le;Gi	T;ao;M
<i>Manihot esculenta</i>	sd U	Ma	TRC
<i>Mauritia flexuosa (Mauritia vinifera synonym)</i>	pp R; sd	Ma;Le;Mu;Gi	T;M
<i>Otoba parvifolia</i>	ju U; sd U; pp	Ma;Le	T
<i>Oxandra cf. xylopioides</i>	pp R	Ma	TRC
sp.x8	fl	Ma	TRC
<i>Tabernaemontana heterophylla</i>	al R	Ma	TRC
<i>Tanaecium pyramidatum</i>	sd R	Ma	TRC
<i>Virola elongata</i>	al R	Ma	TRC
Ara macao (48 species)			
<i>Acacia sp.</i>	wf R	Ma	TRC

<i>Apeiba membranacea</i>	sd R	Ma;Mu;Gi	T;M
<i>Apuleia leiocarpa</i>	wf U; sd U	Ma	TRC
<i>Brosimum utile</i>	wf U; pp R; sd R	Ma	TRC
<i>Byrsonima putumayensis</i>	sd R U	Ma	TRC
<i>Caryocar amygdaliforme</i>	wf U; pp R U; sd R U	Ma;Le	T
<i>Cecropia sciadophylla</i>	wf R	Ma;Le	T
<i>Ceiba insignis</i>	fl	Ma	TRC
<i>Coccoloba peruviana</i>	sd U	Ma	TRC
<i>Couratari macrosperma</i>	sd R	Ma	TRC
<i>Croton glandulosum</i>	sd R U	Ma	TRC
<i>Dipteryx micrantha</i>	sd R U; pp R; lf; ot	Ma;Le	T
<i>Erythrina poeppigiana</i>	fl; wf R	Ma;Le	T
<i>Erythrina ulei</i>	sd; fl; ot	Ma	T
<i>Eschweilera coriacea</i>	sd U	Ma;Le	T
<i>Euterpe precatoria</i>	pp R; sd R	Ma;Le	T
<i>Ficus maxima</i>	sd U	Ma	TRC
<i>Guarea sp.(4)</i>	?	Ma	TRC
<i>Himatanthus sukuuba</i>	?	Ma	TRC
<i>Huberodendrum swietenioides</i>	sd R	Ma	TRC
<i>Hymenaea oblongifolia</i>	sd R; pp R U; bu; wf	Ma;Le	T
<i>Inga acreana</i>	sd U	Ma	TRC
<i>Inga cf. ruiziana</i>	al R	Ma	TRC
<i>Inga marginata</i>	al R	Ma	TRC
<i>Inga sp.(11)</i>	al R	Ma	TRC
<i>Manihot condensata</i>	sd U	Ma	TRC
<i>Mauritia flexuosa</i>	pp R	Ma;Le	T
<i>Meliosma herbertii</i>	sd U	Ma	TRC
<i>Micropholis guyanensis</i>	pp R	Ma	TRC
<i>Ochroma pyramidale</i>	fl	Ma;Le	T
<i>Otoba parvifolia</i>	sd U; pp; al R U; ju U	Ma;Le	T
<i>Pausandra trianae</i>	sd U	Ma	TRC
<i>Pourouma guianensis</i>	pp R U	Ma;Le	T
<i>Pouteria cuspidata</i>	sd R	Ma	TRC
<i>Pouteria sp.(4)</i>	sd	Ma	TRC
<i>Protium cf. amazonicum</i>	pp R	Ma	TRC
<i>Pseudolmedia laevis</i>	pp R; U; sd U	Ma;Mu;Gi	T;M
<i>Randia armata</i>	sd R	Ma	TRC
<i>Sapium glandulosum (Sapium aereum synonym)</i>	sd U	Ma;Mu;Gi	T;M
<i>Sapium marmieri</i>	al R U; sd R U	Ma;Le;Mu;Gi	T;M
<i>Sloanea fragans</i>	pp U	Ma	TRC
<i>Socratea exorrhiza</i>	pp R U; sd; U	Ma;Gi	T;ao;M
sp.x8	fl	Ma	TRC
<i>Spondias mombin</i>	sd R U; pp R U	Ma;Mu;Gi	T;M
<i>Spondias venulosa</i>	pp R	Ma	TRC

<i>Swartzia</i> sp.	?	Ma	TRC
<i>Symphonia globulifera</i>	sd; fl	Ma;Le	T
<i>Zanthoxylum tambopatense</i>	sd U	Ma	TRC
<i>Ara severus</i> (10 species)			
<i>Apuleia leiocarpa</i>	wf U; sd U	Ma	TRC
<i>Clusia</i> sp.	pp R	Ma	TRC
<i>Erythrina poeppigiana</i>	fl; ne	Ma;Le;Gi	T;ao;M
<i>Ficus coerulescens</i>	wf R	Ma	TRC
<i>Ficus</i> sp.(5)	sd R	Ma	TRC
<i>Ficus</i> sp.(8)	sd R	Ma	TRC
<i>Guazuma ulmifolia</i>	pp U; sd U	Ma;Le	T
<i>Salix humboldtiana</i>	fl; lf	Ma	TRC
<i>Sapium marmieri</i>	sd R U	Ma;Le	T
sp.x8	fl	Ma	TRC
<i>Aratinga weddellii</i> (6 species)			
<i>Cecropia sciadophylla</i>	wf R	Ma	TRC
<i>Ceiba insignis</i>	fl	Ma	TRC
<i>Cordia lomataloba</i>	wf R	Ma	TRC
<i>Erythrina poeppigiana</i>	fl; sd U; ne	Ma;Le;Gi	T;ao;M
<i>Socratea exorrhiza</i>	sd R	Ma	TRC
sp.x8	fl	Ma	TRC
<i>Brotogeris cyanopectera</i> (16 species)			
<i>Ceiba insignis</i>	sd R	Ma	TRC
<i>Cordia lomataloba</i>	wf R	Ma	TRC
<i>Croton glandulosum</i>	sd U	Ma	TRC
<i>Erythrina poeppigiana</i>	fl; ne	Ma;Le;Gi	T;ao;M
<i>Ficus coerulescens</i> (<i>Ficus killipii</i> synonym)	wf; R	Ma;Le;Gi	T;ao;M
<i>Ficus guianensis</i>	pp R; wf R	Ma;Le	T
<i>Ficus</i> sp.(11)	sd U	Ma	TRC
<i>Ficus</i> sp.(5)	sd R	Ma	TRC
<i>Ficus</i> sp.(9)	pp R	Ma	TRC
<i>Ficus trigona</i>	pp R; wf	Ma;Gi	T;ao;M
<i>Guarea macrophylla</i>	pp R	Ma	TRC
<i>Iriarteia deltoidea</i>	pp R; fl; wf	Ma;Le	T
<i>Ochroma pyramidale</i>	sd R; pp; fl	Ma;Le	T
<i>Otoba parvifolia</i>	al R	Ma	TRC
sp.x8	wf; fl	Ma	TRC
<i>Symphonia globulifera</i>	fl	Ma;Le	T
<i>Orthopsittaca manilatus</i> (1 species)			
<i>Mauritia flexuosa</i> (<i>Mauritia vinifera</i> synonym)	pp R; lf	Ma;Mu;Gi	T;M
<i>Pionites leucogaster</i> (4 species)			
<i>Cabralea canjerana</i>	al R; sd R	Ma	TRC
<i>Clusia</i> cf. <i>minor</i>	sd R	Ma	TRC
<i>Otoba parvifolia</i>	al R	Ma	TRC
<i>Tabernaemontana heterophylla</i>	al R	Ma	TRC

Pionus Menstruus (9 species)

<i>Apuleia leiocarpa</i>	sd U; wf U; fl	Ma;Le	T
<i>Ceiba insignis</i>	fl	Ma	TRC
<i>Guazuma ulmifolia</i>	sd U	Ma	TRC
<i>Inga acreana</i>	al U	Ma	TRC
<i>Inga edulis</i>	sd; pp; al R	Ma;Le	T
<i>Psittacanthus cucullaris</i>	? R	Ma	TRC
<i>Salix humboldtiana</i>	fl; lf	Ma	TRC
<i>Sapium marmieri</i>	sd R	Ma	TRC
<i>Terminalia amazonia</i>	sd U	Ma	TRC

Primolius couloni (3 species)

<i>Apuleia leiocarpa</i>	wf U	Ma	TRC
<i>Sapium marmieri</i>	sd U	Ma	TRC

Psittacara leucophthalmus (4 species)

<i>Erythrina poeppigiana</i>	fl; ne	Ma;Le;Gi	T;ao;M
<i>Gurania eriantha</i>	sd R	Ma	TRC
sp.x8	fl	Ma	TRC
<i>Zanthoxylum tambopatense</i>	sd R	Ma;Le	T

Pyrrhura barrabandi (2 species)

<i>Cabralea canjerana</i>	al R; sd R	Ma	TRC
sp.x8	fl	Ma	TRC

Pyrrhura rupicola (1 species)

<i>Cordia lomataloba</i>	wf R	Ma	TRC
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