

Avifauna in the urban area of Teresina municipality, state of Piauí, Brazil

Appendix

Appendix 1. Taxonomic list of bird species (according to reference [10] and functional traits classification to diet, foraging substrate, nesting substrate, and habitat (Diet: **Om**, omnivorous; **Ict**, ictiophagous; **Car**, carnivorous; **Ins**, insectivorous; **Necr**, necrophagous; **Ma**, malacophagous; **Gr**, granivorous; **Fr**, frugivorous; **He**, Herbivorous; **Nect**, nectarivorous. Foraging substrate: **So**, soil; **W**, water; **A**, air; **Vg**, vegetation. Nesting substrate: **Ca**, cavity; **Vg**, vegetation; **So**, soil; **Aqvg**, on aquatic vegetation; **Urb**, urban constructions. Habitat: **Aq**, aquatic; **Antr**, anthropic; **Arb**, arboreal; **Herb**, herbaceous). Δ - Resident; ◇ - Endemic.

Species	Functional traits			
	Diet	Foraging substrate	Nesting substrate	Habitat
ANSERIFORMES Linnaeus, 1758				
Anatidae Leach, 1820				
<i>Dendrocygna bicolor</i> (Vieillot, 1816) Δ	Ins, He	So, W	Ca, Vg, So	Aq
<i>Dendrocygna viduata</i> (Linnaeus, 1766) Δ	Ins, He	So, W	Vg, So	Aq
<i>Dendrocygna autumnalis</i> (Linnaeus, 1758) Δ	Ins, He	So, W	Ca, Vg, So	Aq
<i>Amazonetta brasiliensis</i> (Gmelin, 1789) Δ	Ins, He	So, W	Vg, So	Aq
SULIFORMES Sharpe, 1891				
Phalacrocoracidae Reichenbach, 1849				
<i>Nannopterum brasilianum</i> (Gmelin, 1789) Δ	Ict, Car, Ins	W	Aqvg	Aq
PELECANIFORMES Sharpe, 1891				
Ardeidae Leach, 1820				
<i>Tigrisoma lineatum</i> (Boddaert, 1783) Δ	Ict, Car, Ins	So, W, Vg	Vg	Aq
<i>Butorides striata</i> (Linnaeus, 1758) Δ	Ict, Car, Ins	So, W, Vg	Vg, Aqvg	Aq
<i>Bubulcus ibis</i> (Linnaeus, 1758) Δ	Ins	So	Vg, Aqvg	Herb
<i>Ardea alba</i> (Linnaeus, 1758) Δ	Ict, Car, Ins	So, W, Vg	Vg, Aqvg	Aq
<i>Egretta thula</i> (Molina, 1782) Δ	Ict, Car, Ins	So, W, Vg	Vg, Aqvg	Aq
CATHARTIFORMES Seebohm, 1890				
Cathartidae Lafresnaye, 1839				
<i>Cathartes aura</i> (Linnaeus, 1758) Δ	Necr	A	So	Antr, Arb
<i>Cathartes burrovianus</i> Cassin, 1845 Δ	Necr	A	Ca	Antr, Arb
<i>Coragyps atratus</i> (Bechstein, 1793) Δ	Necr	A	Ca	Antr, Arb
ACCIPITRIFORMES Bonaparte, 1831				
Pandionidae Bonaparte, 1854				
<i>Pandion haliaetus</i> (Linnaeus, 1758)	Ict	W, A	Vg, Urb	Aq

Accipitridae Vigors, 1824

<i>Rostrhamus sociabilis</i> (Vieillot, 1817) Δ	Ma	Vg	Vg, Aqvg	Aq, Arb, Herb
<i>Geranospiza caerulescens</i> (Vieillot, 1817) Δ	Car, Ins	A, Vg	Vg	Antr, Arb, Herb
<i>Rupornis magnirostris</i> (Gmelin, 1788) Δ	Car, Ins	A, Vg	Vg	Antr, Arb
<i>Spizaetus tyrannus</i> (Wied, 1820) Δ	Car	Vg	Vg	Arb

GRUIFORMES Bonaparte, 1854

Aramidae Bonaparte, 1852

<i>Aramus guarauna</i> (Linnaeus, 1766) Δ	Ma	So, W	Vg, So, Aqvg	Aq
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Rallidae Rafinesque, 1815

<i>Aramides cajaneus</i> (Statius Muller, 1776) Δ	Om	So, W, Vg	Vg, So, Aqvg	Aq, Herb
<i>Gallinula galeata</i> (Lichtenstein, 1818) Δ	He	So, W, Vg	Vg, So, Aqvg	Aq, Herb
<i>Porphyrio martinica</i> (Linnaeus, 1766) Δ	He	So, W, Vg	Vg, So, Aqvg	Aq, Herb

CHARADRIIFORMES Huxley, 1867

Charadriidae Leach, 1820

<i>Vanellus chilensis</i> (Molina, 1782) Δ	Ict, Car, Ins	So, W, Vg	So	Aq, Antr, Herb
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Jacanidae Chenu & Des Murs, 1854

<i>Jacana jacana</i> (Linnaeus, 1766) Δ	Ins, He	So, W, Vg	Vg, So, Aqvg	Aq
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Sternidae Vigors, 1825

<i>Phaetusa simplex</i> (Gmelin, 1789) Δ	Ict	A	So	Aq
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COLUMBIFORMES Latham, 1790

Columbidae Leach, 1820

<i>Columbina talpacoti</i> (Temminck, 1810) Δ	Gr	So	Vg, Urb	Antr
<i>Columbina squammata</i> (Lesson, 1831) Δ	Gr	So	Urb	Antr
<i>Columba livia</i> Gmelin, 1789 Δ	Gr, Fr	So	Urb	Antr
<i>Leptotila rufaxilla</i> (Richard & Bernard, 1792) Δ	Gr, Fr	So	Vg	Arb

CUCULIFORMES Wagler, 1830

Cuculidae Leach, 1820

<i>Piaya cayana</i> (Linnaeus, 1766) Δ	Ins	Vg	Vg	Arb
<i>Crotophaga major</i> Gmelin, 1788 Δ	Ins	So, Vg	Vg	Aq, Arb
<i>Crotophaga ani</i> Linnaeus, 1758 Δ	Om, Gr	So, Vg	Vg	Antr, Arb, Herb
<i>Guira guira</i> (Gmelin, 1788) Δ	Om, Gr	So, Vg	Vg	Antr, Arb, Herb

STRIGIFORMES Wagler, 1830

Tytonidae Mathews, 1912

<i>Tyto furcata</i> Temminck, 1827 Δ	Car	Vg	So, Vg, Urb	Antr
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Strigidae Leach, 1820

<i>Megascops choliba</i> (Vieillot, 1817) Δ	Car, Ins	So, Vg	Ca, Vg	Antr, Arb
<i>Glaucidium brasilianum</i> (Gmelin, 1788) Δ	Car, Ins	Vg	Ca, Vg	Antr, Arb

CAPRIMULGIFORMES Ridgway, 1881

Caprimulgidae Vigors, 1825

<i>Nyctidromus albigollis</i> (Gmelin, 1789) Δ	Ins	A	So	Antr, Arb
<i>Hydropsalis parvula</i> (Gould, 1837) Δ	Ins	So	So	Antr, Arb

APODIFORMES Peters, 1940

Apodidae Olphe-Galliard, 1887

<i>Tachornis squamata</i> (Cassin, 1853) Δ	Ins	A	Vg	Antr, Arb
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Trochilidae Vigors, 1825

<i>Eupetomena macroura</i> (Gmelin, 1788) Δ	Nect	A	Vg	Antr, Arb, Herb
<i>Chlorostilbon lucidus</i> (Shaw, 1812) Δ	Nect	A	Vg	Antr, Arb, Herb
<i>Chionomesa fimbriata</i> (Gmelin, 1788) Δ	Nect	A	Vg	Antr, Arb, Herb

TROGONIFORMES A. O. U., 1886

Trogonidae Lesson, 1828

<i>Trogon curucui</i> Linnaeus, 1766 Δ	Ins, Fr	Vg	Vg	Arb
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CORACIIFORMES Forbes, 1844

Alcedinidae Rafinesque, 1815

<i>Megaceryle torquata</i> (Linnaeus, 1766) Δ	Ict	Vg	Ca	Aq, Arb
<i>Chloroceryle amazona</i> (Latham, 1790) Δ	Ict	Vg	Ca	Aq, Antr, Arb
<i>Chloroceryle americana</i> (Gmelin, 1788) Δ	Ict	Vg	Ca	Aq, Antr, Arb

GALBULIFORMES Fürbringer, 1888

Galbulidae Vigors, 1825

<i>Galbula ruficauda</i> Cuvier, 1816	Ins	A	Ca	Arb
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PICIFORMES Meyer & Wolf, 1810

Ramphastidae Vigors, 1825

<i>Pteroglossus inscriptus</i> Swainson, 1822 Δ	Om	Vg	Ca	Arb
<i>Pteroglossus aracari</i> (Linnaeus, 1758) Δ	Om	Vg	Ca	Arb

Picidae Leach, 1820

<i>Veniliornis passerinus</i> (Linnaeus, 1766) Δ ◇	Ins, Fr	Vg	Ca	Arb
<i>Celeus ochraceus</i> (Spix, 1824) Δ ◇	Ins, Fr	Vg	Ca	Arb
<i>Campephilus melanoleucos</i> (Gmelin, 1788) Δ	Ins, Fr	Vg	Ca	Arb

FALCONIFORMES Bonaparte, 1831

Falconidae Leach, 1820

<i>Caracara plancus</i> (Miller, 1777) Δ	Om, Necr	So, W, A, Vg	Vg	Antr, Arb
<i>Milvago chimachima</i> (Vieillot, 1816) Δ	Ins	So	Vg	Antr, Arb
<i>Herpetotheres cachinnans</i> (Linnaeus, 1758) Δ	Car	Vg	Ca, Vg	Arb
<i>Falco peregrinus</i> Tunstall, 1771	Car	A	Ca	Antr, Arb

PSITTACIFORMES Wagler, 1830

Psittacidae Rafinesque, 1815

<i>Psittacara leucophthalmus</i> (Statius Muller, 1776) Δ	Gr, Fr	Vg	Ca, Vg, Aqvg	Antr, Arb
<i>Aratinga jandaya</i> (Gmelin, 1788) Δ	Gr, Fr	Vg	Ca, Vg	Arb
<i>Eupsittula aurea</i> (Gmelin, 1788) Δ	Gr, Fr	Vg	Ca, Vg	Antr, Arb
<i>Forpus xanthopterygius</i> (Spix, 1824) Δ	Gr, Fr	Vg	Ca, Vg	Antr, Arb
<i>Brotogeris chiriri</i> (Vieillot, 1818) Δ	Gr, Fr	Vg	Ca, Vg	Antr, Arb

PASSERIFORMES Linnaeus, 1758

Thamnophilidae Swainson, 1824

<i>Thamnophilus doliatus</i> (Linnaeus, 1764) Δ	Ins, Fr	Vg	Vg	Antr, Arb, Herb
<i>Taraba major</i> (Vieillot, 1816) Δ	Ins	Vg	Vg	Antr, Arb, Herb

Dendrocolaptidae Gray, 1840

<i>Dendroplex picus</i> (Gmelin, 1788) Δ	Ins	Vg	Ca, Vg	Antr, Arb
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Furnariidae Gray, 1840

<i>Furnarius figulus</i> (Lichtenstein, 1823) Δ ◇	Ins	So	Vg	Arb, Herb
<i>Furnarius leucopus</i> Swainson, 1838 Δ	Ins	So	Vg	Arb, Herb
<i>Certhiaxis cinnamomeus</i> (Gmelin, 1788) Δ	Ins	So, Vg	Vg, aqvg	Aq, Arb, Herb

Rhynchocyclidae Berlepsch, 1907

<i>Tolmomyias flaviventris</i> (Wied, 1831) Δ	Ins	Vg	Vg	Antr, Arb
<i>Todirostrum cinereum</i> (Linnaeus, 1766) Δ	Ins	Vg	Vg	Antr, Arb

Tyrannidae Vigors, 1825

<i>Attila spadiceus</i> (Gmelin, 1789) Δ	Ins	Vg	Ca, Vg	Arb
<i>Myiarchus ferox</i> (Gmelin, 1789) Δ	Ins	A, Vg	Ca, Vg	Arb
<i>Pitangus sulphuratus</i> (Linnaeus, 1766) Δ	Om	So, W, A, Vg	Ca, Vg, Urb	Antr, Arb
<i>Philohydor lictor</i> (Lichtenstein, 1823) Δ	Ins	So, W, Vg	Ca, Vg, Aqvg	Aq
<i>Machetornis rixosa</i> (Vieillot, 1819) Δ	Ins	So	Vg	Antr
<i>Myiodynastes maculatus</i> (Statius Muller, 1776) Δ	Ins	A, Vg	Ca, Vg	Arb
<i>Megarynchus pitangua</i> (Linnaeus, 1766) Δ	Om	Vg	Vg	Arb
<i>Myiozetetes cayanensis</i> (Linnaeus, 1766) Δ	Ins	Vg	Vg	Arb
<i>Myiozetetes similis</i> (Spix, 1825) Δ	Ins	A, Vg	Vg	Arb
<i>Tyrannus melancholicus</i> Vieillot, 1819 Δ	Ins	A, Vg	Vg	Aq
<i>Fluvicola albiventer</i> (Spix, 1825) Δ	Ins	So, A, Vg	Vg, Aqvg	Aq, Arb, Herb
<i>Fluvicola nengeta</i> (Linnaeus, 1766) Δ	Ins	So	Vg, Aqvg	Aq, Antr
<i>Arundinicola leucocephala</i> (Linnaeus, 1764) Δ	Ins	A	Vg, Aqvg	Aq, Arb, Herb

Vireonidae Swainson, 1837

<i>Cyclarhis gujanensis</i> (Gmelin, 1789) Δ	Ins	Vg	Vg	Arb
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Corvidae Leach, 1820

<i>Cyanocorax cyanopogon</i> (Wied, 1821) Δ ◇	Om	So, W, Vg	Vg	Arb
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Hirundinidae Rafinesque, 1815

<i>Progne tapera</i> (Vieillot, 1817) Δ	Ins	A	Ca, Vg	Antr
<i>Progne chalybea</i> (Gmelin, 1789) Δ	Ins	A	Ca, Vg	Arb
<i>Tachycineta albiventer</i> (Boddaert, 1783) Δ	Ins	A	Ca, Vg	Aq

Troglodytidae Swainson, 1831

<i>Troglodytes musculus</i> Naumann, 1823 Δ	Ins	So, Vg	Ca, Urb	Antr, Arb, Herb
<i>Pheugopedius genibarbis</i> (Swainson, 1838) Δ	Ins	So, Vg	Vg	Arb, Herb
<i>Cantorchilus longirostris</i> (Vieillot, 1819) Δ ◇	Om	So, Vg	Vg	Arb, Herb

Donacobiidae Aleixo & Pacheco, 2006

<i>Donacobius atricapilla</i> (Linnaeus, 1766) Δ	Ins	So	Vg	Aq
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Poliopitidae Baird, 1858

<i>Poliopitila atricapilla</i> (Gmelin, 1788) Δ	Ins	Vg	Vg	Antr, Arb, Herb
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Turdidae Rafinesque, 1815

<i>Turdus rufiventris</i> Vieillot, 1818 Δ	Ins, Fr	So, Vg	Vg, Urb	Arb
<i>Turdus leucomelas</i> Vieillot, 1818 Δ	Ins, Fr	So, Vg	Vg, Urb	Antr, Arb
<i>Turdus amaurochalinus</i> Cabanis, 1850 Δ	Ins, Fr	So, Vg	Vg	Arb

Icteridae Vigors, 1825

<i>Psarocolius decumanus</i> (Pallas, 1769) Δ	Ins, Fr	Vg	Vg	Antr, Arb
<i>Cacicus cela</i> (Linnaeus, 1758) Δ	Om	So, Vg	Vg	Arb
<i>Icterus jamacaii</i> (Gmelin, 1788) Δ ◇	Om	So, Vg	Vg	Arb
<i>Gnorimopsar chopi</i> (Vieillot, 1819) Δ	Om	So, Vg	Ca, Vg	Arb
<i>Chrysomus ruficapillus</i> (Vieillot, 1819) Δ	Om	So, W, Vg	Vg	Arb
<i>Molothrus oryzivorus</i> (Gmelin, 1788) Δ	Om	So, Vg	Ca	Arb
<i>Molothrus bonariensis</i> (Gmelin, 1789) Δ	Om	So, Vg	Ca	Antr, Arb

Thraupidae Cabanis, 1847

<i>Paroaria dominicana</i> (Linnaeus, 1758) Δ ◇	Gr	So, Vg	Vg	Arb
<i>Thraupis sayaca</i> (Linnaeus, 1766) Δ	Ins, Fr	So, Vg	Vg	Arb
<i>Thraupis palmarum</i> (Wied, 1821) Δ	Ins, Fr	So, Vg	Vg	Antr, Arb
<i>Nemosia pileata</i> (Boddaert, 1783) Δ	Fr	Vg	Vg	Antr, Arb
<i>Conirostrum speciosum</i> (Temminck, 1824) Δ	Ins	Vg	Vg	Arb
<i>Sicalis flaveola</i> (Linnaeus, 1766) Δ	Gr	So	Ca, Vg	Antr, Arb
<i>Hemithraupis guira</i> (Linnaeus, 1766) Δ	Fr	Vg	Vg	Arb
<i>Volatinia jacarina</i> (Linnaeus, 1766) Δ	Ins, Gr	Vg	Vg	Antr, Arb
<i>Coereba flaveola</i> (Linnaeus, 1758) Δ	Ins, Fr, Nect	Vg	Vg	Antr, Arb
<i>Thlypopsis sordida</i> (d'Orbigny & Lafresnaye, 1837) Δ	Ins, Gr, Fr	Vg	Vg	Antr, Arb

Fringillidae Leach, 1820

<i>Euphonia chlorotica</i> (Linnaeus, 1766) Δ	Fr	Vg	Vg	Arb
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Estrildidae Bonaparte, 1850

Estrilda astrild (Linnaeus, 1758) Δ

Gr

So, Vg

Vg

Antr, Arb, Herb

Passeridae Rafinesque, 1815

Passer domesticus (Linnaeus, 1758) Δ

Gr, Fr

So, W, A, Vg

Urb

Antr, Arb, Herb
