**Appendix 1.** Bird species recorded (X) in the tree sampling areas (Core, Edge and Buffer area) in the Natural Park of Sertão (NPS), southern Brazil. Occasional encounter (OE). Feeding habits (FH): Carnivorous (CAR), Detritivorous (DET), Frugivorous (FRU), Granivorous (GRA), Insectivorous (INS), Nectarivorous (NEC), Omnivorous (OMN), Habitat use (HU): Broad (BRO), Forest (FOR), Forest edge (FE), Open area (OA), Wetland (WET). Sensitivity level to forest fragmentation (Sen): Low (L), Medium (M), High (H), (-) Species without sensitivity level to forest fragmentation estimated. Punctual Abundance Index (PAI). Species without PAI value were recorded by Occasional encounter

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Taxon | Core | Edge | Buffer | OE | FH | HU | Sen | PAI |
| **TINAMIFORMES** |  |  |  |  |  |  |  |  |
| **Tinamidae** |  |  |  |  |  |  |  |  |
| *Crypturellus obsoletus* (Temminck, 1815) | X | X |  |  | GRA | FOR | L | 0.09 |
| *Nothura maculosa* (Temminck, 1815) |  | X |  |  | OMN | OA | L | 0.02 |
| **ANSERIFORMES** |  |  |  |  |  |  |  |  |
| **Anatidae** |  |  |  |  |  |  |  |  |
| *Amazonetta brasiliensis* (Gmelin, 1789) |  |  |  | X | OMN | WET | L |  |
| **GALLIFORMES** |  |  |  |  |  |  |  |  |
| **Cracidae**  |  |  |  |  |  |  |  |  |
| *Penelope obscura* (Temminck, 1815) |  |  | X |  | OMN | FOR | M | 0.04 |
| **COLUMBIFORMES** |  |  |  |  |  |  |  |  |
| **Columbidae** |  |  |  |  |  |  |  |  |
| *Geotrygon montana* (Linnaeus, 1758) | X | X | X |  | GRA | FOR | M | 0.63 |
| *Leptotila verreauxi* (Bonaparte, 1855) | X | X | X |  | GRA | FOR | L | 1.15 |
| *Leptotila rufaxilla* (Richard & Bernard, 1792) |  | X | X |  | GRA | FOR | L | 0.04 |
| *Zenaida auriculata* (Des Murs, 1847) | X | X | X |  | OMN | BRO | L | 0.81 |
| *Columbina talpacoti* (Temminck, 1810) |  |  |  | X | GRA | BRO | L |  |
| *Columbina picui* (Temminck, 1813) |  |  |  | X | GRA | OA | L |  |
| *Patagioenas picazuro* (Temminck, 1813) | X | X | X |  | GRA | BRO | M | 0.96 |
| **CUCULIFORMES** |  |  |  |  |  |  |  |  |
| **Cuculidae** |  |  |  |  |  |  |  |  |
| *Guira guira* (Gmelin, 1788) |  |  |  | X | INS | OA | L |  |
| *Piaya cayana* (Linnaeus, 1766) | X | X | X |  | INS | FE | L | 0.15 |
| *Coccyzus melacoryphus* (Vieillot, 1817) |  |  | X |  | OMN | FE | L | 0.02 |
| **APODIFORMES** |  |  |  |  |  |  |  |  |
| **Trochilidae** |  |  |  |  |  |  |  |  |
| *Anthracothorax nigricollis* (Vieillot, 1817) | X |  |  |  | NEC | FE | L | 0.02 |
| *Chlorostilbon lucidus* (Shaw, 1812) | X | X | X |  | NEC | BRO | L | 0.07 |
| *Leucochloris albicollis* (Vieillot, 1818)  | X | X | X |  | NEC | BRO | L | 0.09 |
| *Hylocharis chrysura* (Shaw, 1812) |  |  | X |  | NEC | FE | M | 0.02 |
| **GRUIFORMES** |  |  |  |  |  |  |  |  |
| **Rallidae** |  |  |  |  |  |  |  |  |
| *Aramides saracura* (Spix, 1825) |  | X |  |  | OMN | WET | L | 0.02 |
| *Gallinula galeata* (Lichtenstein, 1818) |  |  |  | X | OMN | WET | - |  |
| **CHARADRIIFORMES** |  |  |  |  |  |  |  |  |
| **Charadriidae** |  |  |  |  |  |  |  |  |
| *Vanellus chilensis* (Molina, 1782) |  |  |  | X | OMN | OA | L |  |
| **PELECANIFORMES** |  |  |  |  |  |  |  |  |
| **Ardeidae** |  |  |  |  |  |  |  |  |
| *Bubulcus ibis* (Linnaeus, 1758) |  |  |  | X | INS | WET | L |  |
| *Syrigma sibilatrix* (Temminck, 1824) |  |  |  | X | OMN | OA | M |  |
| **Threskiornithidae** |  |  |  |  |  |  |  |  |
| *Theristicus caudatus* (Boddaert, 1783) |  |  |  | X | INS | OA | L |  |
| *Mesembrinibis cayennensis* (Gmelin, 1789) |  |  |  | X | CAR | WET | L |  |
| **CATHARTIFORMES** |  |  |  |  |  |  |  |  |
| **Cathartidae** |  |  |  |  |  |  |  |  |
| *Coragyps atratus* (Bechstein, 1793) |  |  |  | X | DET | BRO | L |  |
| *Cathartes aura* (Linnaeus, 1758) |  |  |  | X | DET | BRO | L |  |
| **ACCIPITRIFORMES** |  |  |  |  |  |  |  |  |
| **Accipitridae** |  |  |  |  |  |  |  |  |
| *Rupornis magnirostris* (Gmelin, 1788) |  |  |  | X | CAR | BRO | L |  |
| *Buteo brachyurus* (Vieillot, 1816) |  | X |  |  | CAR | BRO | M | 0.04 |
| *Heterospizias meridionalis* (Latham, 1790) | X | X | X |  | CAR | OA | L | 0.22 |
| **STRIGIFORMES** |  |  |  |  |  |  |  |  |
| **Strigidae** |  |  |  |  |  |  |  |  |
| *Megascops choliba* (Vieillot, 1817) |  | X |  |  | CAR | FE | L | 0.02 |
| *Athene cunicularia* (Molina, 1782) |  |  |  | X | INS | BRO | M |  |
| **TROGONIFORMES** |  |  |  |  |  |  |  |  |
| **Trogonidae** |  |  |  |  |  |  |  |  |
| *Trogon surrucura (*Vieillot, 1817) | X | X |  |  | OMN | FOR | M | 0.11 |
| **GALBULIFORMES** |  |  |  |  |  |  |  |  |
| **Bucconidae** |  |  |  |  |  |  |  |  |
| *Nystalus chacuru* (Vieillot, 1816) |  | X |  |  | INS | FE | M | 0.02 |
| **PICIFORMES** |  |  |  |  |  |  |  |  |
| **Picidae** |  |  |  |  |  |  |  |  |
| *Colaptes melanochloros* (Gmelin, 1788) |  |  |  | X | OMN | OA | L |  |
| *Colaptes campestris* (Vieillot, 1818) |  |  |  | X | INS | OA | L |  |
| *Dryocopus lineatus* (Linnaeus, 1766) | X | X | X |  | INS | FOR | M | 0.22 |
| *Melanerpes candidus* (Otto, 1796) |  |  | X |  | OMN | BRO | L | 0.02 |
| *Piculus aurulentus* (Temminck, 1821) | X |  |  |  | INS | FOR | L | 0.04 |
| *Veniliornis spilogaster* (Wagler, 1827) |  | X |  |  | INS | FE | L | 0.04 |
| **Ramphastidae** |  |  |  |  |  |  |  |  |
| *Ramphastos dicolorus* (Linnaeus, 1766) |  | X |  |  | OMN | BRO | M | 0.06 |
| **FALCONIFORMES** |  |  |  |  |  |  |  |  |
| **Falconidae** |  |  |  |  |  |  |  |  |
| *Milvago chimango* (Vieillot, 1816) |  |  |  | X | OMN | OA | L |  |
| *Caracara plancus* (Miller, 1777) |  |  |  | X | OMN | BRO | L |  |
| *Milvago chimachima* (Vieillot, 1816) |  |  | X |  | OMN | BRO | L | 0.07 |
| **PSITTACIFORMES** |  |  |  |  |  |  |  |  |
| **Psittacidae** |  |  |  |  |  |  |  |  |
| *Myiopsitta monachus* (Boddaert, 1783) | X |  | X |  | FRU | FE | L | 0.3 |
| *Pyrrhura frontalis* (Vieillot, 1817) | X |  | X |  | FRU | FOR | M | 0.33 |
| **PASSERIFORMES** |  |  |  |  |  |  |  |  |
| **Thamnophilidae** |  |  |  |  |  |  |  |  |
| *Thamnophilus caerulescens* (Vieillot, 1816) | X | X |  |  | INS | FOR | L | 0.11 |
| *Thamnophilus ruficapillus* (Vieillot, 1816) |  | X |  |  | OMN | OA | L | 0.04 |
| *Dysithamnus mentalis* (Temminck, 1823) | X |  | X |  | INS | FE | L | 0.02 |
| **Formicariidae** |  |  |  |  |  |  |  |  |
| *Chamaeza campanisona* (Lichtenstein, 1823) | X | X | X |  | INS | FOR | H | 0.7 |
| **Dendrocolaptidae** |  |  |  |  |  |  |  |  |
| *Lepidocolaptes falcinellus* (Cabanis & Heine, 1859) |  | X | X |  | INS | FOR | - | 0.09 |
| *Dendrocolaptes platyrostris* (Spix, 1825) | X | X |  |  | INS | FOR | L | 0.11 |
| *Sittasomus griseicapillu*s (Vieillot, 1818) | X | X | X |  | INS | FOR | M | 0.09 |
| **Furnariidae** |  |  |  |  |  |  |  |  |
| *Synallaxis spixi* (Sclater, 1856) | X |  |  |  | INS | OA | L | 0 |
| *Synallaxis cinerascens* (Temminck, 1823) | X |  |  |  | INS | FOR | M | 0.13 |
| *Furnarius rufus* (Gmelin, 1788) |  |  |  | X | INS | BRO | L |  |
| *Leptasthenura setaria* (Temminck, 1824) |  |  | X |  | INS | FE | L | 0.07 |
| *Heliobletus contaminatus* (Pelzeln, 1859) | X |  | X |  | INS | FOR | H | 0.07 |
| *Cranioleuca obsoleta* (Reichenbach, 1853) | X | X | X |  | INS | FOR | M | 0.17 |
| *Lochmias nematura* (Lichtenstein, 1823) |  |  | X |  | INS | WET | M | 0.02 |
| *Syndactyla rufosuperciliata* (Lafresnaye, 1832) | X | X |  |  | INS | FOR | M | 0.04 |
| *Dendroma rufa (Vieillot, 1818)* | X |  |  |  | INS | FOR | - | 0.02 |
| **Rhynchocyclidae** |  |  |  |  |  |  |  |  |
| *Phylloscartes ventralis* (Temminck, 1824) | X |  | X |  | INS | FOR | L | 0.09 |
| *Poecilotriccus plumbeiceps* (Lafresnaye, 1846) | X | X |  |  | INS | FOR | M | 0.04 |
| *Tolmomyias sulphurescens* (Spix, 1825) |  | X |  |  | INS | FOR | M | 0 |
| *Leptopogon amaurocephalus* (Tschudi, 1846) | X | X | X |  | INS | FOR | L | 0.04 |
| **Tityridae** |  |  |  |  |  |  |  |  |
| *Tityra cayana (Linnaeus,* 1766) | X | X | X |  | OMN | FOR | M | 0.22 |
| *Schiffornis virescens* (Lafresnaye, 1838) | X | X | X |  | OMN | FOR | M | 0.02 |
| *Pachyramphus castaneus* (Jardine & Selby, 1827) |  | X | X |  | INS | FOR | L | 0.04 |
| *Pachyramphus polychopterus* (Vieillot, 1818) | X |  |  |  | OMN | FE | L | 0 |
| **Platyrinchidae** |  |  |  |  |  |  |  |  |
| *Platyrinchus mystaceus* (Vieillot, 1818) | X | X | X |  | INS | FOR | M | 0.37 |
| **Tyrannidae** |  |  |  |  |  |  |  |  |
| *Camptostoma obsoletum* (Temminck, 1824) |  | X | X |  | INS | BRO | L | 0.09 |
| *Elaenia parvirostris* (Pelzeln, 1868) | X | X |  |  | OMN | FE | L | 0.02 |
| *Empidonomus varius* (Vieillot, 1818) |  |  | X |  | INS | FE | L | 0 |
| *Elaenia mesoleuca* (Deppe, 1830) | X | X | X |  | OMN | FE | L | 0.02 |
| *Lathrotriccus euleri* (Cabanis, 1868) | X | X | X |  | INS | FOR | L | 0.02 |
| *Myiodynastes maculatus* (Statius Muller, 1776) |  | X | X |  | OMN | FOR | L | 0.15 |
| *Megarynchus pitangua* (Linnaeus, 1766) | X | X | X |  | OMN | FE | L | 0.39 |
| *Myiophobus fasciatus* (Statius Muller, 1776) |  | X | X |  | INS | FOR | L | 0.06 |
| *Myiarchus swainsoni* (Cabanis & Heine, 1859) |  | X | X |  | OMN | FE | L | 0 |
| *Myiopagis caniceps* (Swainson, 1835) | X | X | X |  | INS | FOR | L | 0.09 |
| *Myiopagis viridicata* (Vieillot, 1817) | X |  |  |  | INS | FOR | M | 0 |
| *Serpophaga subcristata* (Vieillot, 1817) |  | X | X |  | INS | FE | L | 0.09 |
| *Pitangus sulphuratus* (Linnaeus, 1766) |  | X | X |  | OMN | BRO | L | 0.85 |
| *Tyrannus melancholicus* (Vieillot, 1819) |  | X | X |  | INS | FE | L | 0.1 |
| *Tyrannus savana* (Daudin, 1802) |  |  | X |  | INS | OA | L | 0.04 |
| *Tyranniscus burmeisteri* (Cabanis & Heine, 1859) | X | X |  |  | INS | FOR | - | 0.09 |
| **Vireonidae** |  |  |  |  |  |  |  |  |
| *Cyclarhis gujanensis* (Gmelin, 1789) | X | X | X |  | OMN | FE | L | 0.87 |
| *Vireo chivi* (Vieillot, 1817) | X | X | X |  | OMN | FOR | L | 0.54 |
| **Corvidae** |  |  |  |  |  |  |  |  |
| *Cyanocorax chrysops* (Vieillot, 1818) |  | X |  |  | OMN | FOR | M | 0 |
| **Hirundinidae** |  |  |  |  |  |  |  |  |
| *Pygochelidon cyanoleuca* (Vieillot, 1817) |  |  |  | X | INS | BRO | L |  |
| *Progne tapera* (Vieillot, 1817) |  |  |  | X | INS | OA | L |  |
| **Troglodytidae** |  |  |  |  |  |  |  |  |
| *Troglodytes musculus* (Naumann, 1823) | X | X | X |  | INS | BRO | L | 0.2 |
| **Turdidae** |  |  |  |  |  |  |  |  |
| *Turdus amaurochalinus* (Cabanis, 1850) |  | X |  |  | OMN | BRO | L | 0.02 |
| *Turdus albicollis* (Vieillot, 1818) | X | X |  |  | OMN | FOR | L | 0.11 |
| *Turdus leucomelas* (Vieillot, 1818) | X |  | X |  | OMN | BRO | L | 0.04 |
| *Turdus subalaris* (Seebohm, 1887) | X | X | X |  | OMN | FOR | M | 0.22 |
| *Turdus rufiventris* (Vieillot, 1818) | X | X | X |  | OMN | BRO | L | 1.06 |
| **Passeridae** |  |  |  |  |  |  |  |  |
| *Passer domesticus* (Linnaeus, 1758) |  |  | X |  | OMN | BRO | L | 0 |
| **Fringillidae** |  |  |  |  |  |  |  |  |
| *Chlorophonia cyanea* (Thunberg, 1822) | X |  |  |  | OMN | FOR | M | 0 |
| **Passerellidae** |  |  |  |  |  |  |  |  |
| *Zonotrichia capensis* (Statius Muller, 1776) | X | X | X |  | OMN | BRO | L | 0.64 |
| *Ammodramus humeralis* (Bosc, 1792) |  | X | X |  | GRA | OA | L | 0.12 |
| **Icteridae** |  |  |  |  |  |  |  |  |
| *Agelaioides badius* (Vieillot, 1819) |  |  | X |  | OMN | OA | L | 0.02 |
| *Molothrus bonariensis* (Gmelin, 1789) |  |  | X |  | OMN | BRO | L | 0 |
| *Icterus pyrrhopterus* (Vieillot, 1819) |  | X | X |  | OMN | FOR | M | 0.02 |
| *Cacicus chrysopterus* (Vigors, 1825) | X | X | X |  | OMN | FOR | M | 0.28 |
| *Cacicus haemorrhous* (Linnaeus, 1766) |  |  | X |  | OMN | FOR | M | 0.02 |
| *Pseudoleistes guirahuro* (Vieillot, 1819) |  |  |  | X | GRA | WET | L |  |
| *Leistes superciliaris*  (Bonaparte, 1850) |  |  |  | X | INS | OA | L |  |
| **Parulidae** |  |  |  |  |  |  |  |  |
| *Basileuterus culicivorus* (Deppe, 1830) | X | X | X |  | INS | FOR | L | 1.35 |
| *Myiothlypis leucoblephara* (Vieillot, 1817) | X | X | X |  | INS | FOR | - | 2.09 |
| *Geothlypis aequinoctialis* (Gmelin, 1789) |  | X | X |  | INS | OA | L | 0.02 |
| *Setophaga pitiayumi* (Vieillot, 1817) | X | X | X |  | INS | FOR | M | 1 |
| **Thraupidae** |  |  |  |  |  |  |  |  |
| *Coereba flaveola* (Linnaeus, 1758) |  |  | X |  | OMN | BRO | L | 0.02 |
| *Coryphospingus cucullatus* (Statius Muller, 1776) |  | X |  |  | OMN | FE | L | 0.04 |
| *Donacospiza albifrons* (Vieillot, 1817) | X | X | X |  | GRA | OA | L | 0.08 |
| *Embernagra platensis* (Gmelin, 1789) |  | X | X |  | OMN | OA | L | 0.02 |
| *Hemithraupis guira* (Linnaeus, 1766) | X | X | X |  | FRU | FE | L | 0.07 |
| *Microspingus cabanisi* (Bonaparte, 1850) |  |  | X |  | OMN | FE | - | 0.04 |
| *Poospiza nigrorufa* (d’Orbigny & Lafresnaye, 1837) | X |  |  |  | OMN | WET | M | 0.02 |
| *Pyrrhocoma ruficeps* (Strickland, 1844) |  | X |  |  | OMN | FOR | M | 0.02 |
| *Paroaria coronata* (Miller, 1776) |  |  |  | X | GRA | FE | L |  |
| *Sicalis flaveola* (Linnaeus, 1766) |  |  | X |  | GRA | BRO | L | 0 |
| *Sporophila caerulescens* (Vieillot, 1823) |  |  |  | X | GRA | OA | L |  |
| *Saltator similis* (d’Orbigny & Lafresnaye, 1837) | X | X | X |  | OMN | FOR | L | 0.17 |
| *Stephanophorus diadematus* (Temminck, 1823) |  | X | X |  | FRU | FE | L | 0.02 |
| *Saltator maxillosus* (Cabanis, 1851) |  | X |  |  | OMN | FE | M | 0.02 |
| *Tangara sayaca* (Linnaeus, 1766) |  |  | X |  | OMN | BRO | L | 0.07 |
| *Tersina viridis* (Illiger, 1811) |  |  | X |  | OMN | FE | L | 0.02 |
| *Tachyphonus coronatus* (Vieillot, 1822) | X | X | X |  | OMN | FOR | L | 0.07 |
| *Trichothraupis melanops* (Vieillot, 1818) | X | X | X |  | OMN | FOR | L | 0.02 |