**Digital Appendix 1**

Diagram of sampling area within each site (n= four sites by type of management of rice fields). Grey rectangle represents the sampled rice field. All birds seen and heard from the field edge up to 100-m within the field (i.e., only counting birds on crop side of the transect) were sampled along 140-m long line transects. In addition to the transect, a 10-min point count was established at the beginning and end of each transect (black circles); point-counts covered an area (dashed line boxes in the figure) that included only an angle of 90 degrees from each point because points were located at the corners of the rice-field plots. Thus, by point counts we recorded all birds in a 70 m (i.e. up to the half of the transect) x 100 m area within the rice fields and at the edges (dashed line boxes in the figure).

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**Digital Appendix 2**

Species recorded in rice fields under conventional and agroecological management and their traits used to calculate functional diversity

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Body**  **Size (cm)** | **Habitat** | **Diet** | **Main components of diet** | | | | | | | |  | **Foraging substrate** | | | | | | | |  | **Foraging method or strategy** | | | | | | | |
|  | **Fr** | **Ste** | **Se** | **Ne** | **Inv** | **Fis** | **Ot Ver** | **Car** |  | **Wat** | **Gro** | **Mud** | **Her** | **Shr** | **Arb** | **Air** | **Bar** |  | **Gle** | **Pro** | **Pur** | **HunAir** | **Pou** | **Dig** | **Fil** | **Sca** |
| **Tinamidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Nothura maculosa* | 26 | Terr | Omn | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Anatidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Dendrocygna viduata* | 38 | Aqua | Herb | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| *Amazonetta brasiliensis* | 35 | Aqua | Herb | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| *Callonetta leucophrys* | 40 | Aqua | Herb | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| *Anas versicolor* | 31 | Aqua | Herb | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| **Columbidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Patagioenas maculosa* | 32 | Terr | Herb | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Patagioenas picazuro* | 34 | Terr | Herb | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Columbina picui* | 15 | Terr | Herb | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Columbina talpacoti* | 15 | Terr | Herb | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Leptotila verreauxi* | 31 | Terr | Herb | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Zenaida auriculata* | 22 | Terr | Herb | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| **Cuculidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Guira guira* | 36 | Terr | Carn | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| **Caprimulgidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Chordeiles nacunda* | 30 | Terr | Ins | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |  | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| **Aramidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Aramus guarauna* | 54 | Aqua | Carn | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Rallidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Gallinula galeata* | 29 | Aqua | Omn | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Pardirallus maculatus* | 24 | Aqua | Carn | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Pardirallus sanguinolentus* | 27 | Aqua | Carn | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Mustelirallus albicollis* | 25 | Aqua | Carn | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Charadriidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Vanellus chilensis* | 31 | Terr | Ins | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Charadrius collaris* | 13 | Aqua | Ins | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Pluvialis dominica* | 22 | Aqua | Carn | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Recurvirostridae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Himantopus mexicanus* | 34 | Aqua | Carn | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Scolopacidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Gallinago paraguaiae* | 23 | Aqua | Omn | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Tringa flavipes* | 23 | Aqua | Carn | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Tringa melanoleuca* | 29 | Aqua | Carn | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Tringa solitaria* | 19 | Aqua | Carn | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Calidris fuscicollis* | 15 | Aqua | Carn | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Calidris melanotos* | 18 | Aqua | Carn | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Jacanidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Jacana jacana* | 22 | Aqua | Omn | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Rostratulidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Nyctichryphes semicollaris* | 22 | Aqua | Omn | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Laridae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Phaetusa simplex* | 39 | Aqua | Carn | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| *Sternula superciliaris* | 23 | Aqua | Carn | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| **Ciconiidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Ciconia maguari* | 140 | Aqua | Carn | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Ardeidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Ardea alba* | 65 | Aqua | Carn | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Botaurus pinnatus* | 55 | Aqua | Carn | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Bubulcus ibis* | 35 | Terr | Carn | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Butorides striata* | 34 | Aqua | Carn | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Tigrisoma lineatum* | 62 | Aqua | Carn | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Ixobrychus involucris* | 33 | Aqua | Carn | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Nycticorax nycticorax* | 47 | Aqua | Carn | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Syrigma sibilatrix* | 50 | Aqua | Carn | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Threskiornithidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Phimosus infuscatus* | 40 | Aqua | Carn | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Plegadis chihi* | 40 | Aqua | Carn | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Accipitridae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Circus buffoni* | 55 | Wet | Carn | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| *Buteogallus meridionalis* | 60 | Terr | Carn | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| *Rosthramus sociabilis* | 38 | Wet | Carn | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| **Falconidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Caracara plancus* | 55 | Terr | Carn | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |
| **Psittacidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Myiopsitta monachus* | 27 | Terr | Herb | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Thamnophilidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Taraba major* | 24 | Terr | Carn | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 |  | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Furnariidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Phleocryptes melanops* | 13 | Wet | Ins | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| *Furnarius rufus* | 18 | Terr | Ins | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Cinclodes fuscus* | 17 | Wet | Ins | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Phacellodomus ruber* | 18 | Terr | Ins | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| *Phacellodomus striaticollis* | 17 | Terr | Ins | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| *Schoeniophylax phryganophilus* | 18 | Terr | Ins | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Spartonoica maluroides* | 13 | Wet | Ins | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Asthenes pyrroleuca* | 15 | Terr | Ins | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Certhiaxis cinnamomeus* | 13 | Wet | Ins | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Tyraniidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Elaenia spectabilis* | 16 | Terr | Omn | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 |  | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| *Empidonomus aurantioatrocristatus* | 17 | Terr | Omn | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 |  | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| *Fluvicola albiventer* | 12 | Wet | Ins | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 0 |  | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| *Pseudocolopteryx sclateri* | 9 | Wet | Ins | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| *Hymenops perspicillatus* | 13 | Wet | Ins | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 0 |  | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| *Machetornis rixosa* | 17 | Terr | Ins | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| *Pitangus sulphurathus* | 22 | Terr | Omn | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 0 |  | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 |  | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| *Pyrocephalus rubinus* | 13 | Terr | Ins | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 |  | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| *Tyrannus melancholicus* | 20 | Terr | Ins | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |  | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| *Tyranus savana* | 38 | Terr | Ins | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |  | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| *Xolmis irupero* | 17 | Terr | Ins | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Vireonidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Vireo olivaceous* | 13 | Terr | Omn | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Hirundinidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Progne tapera* | 16 | Wet | Ins | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |  | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| *Riparia riparia* | 11 | Wet | Ins | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |  | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| *Tachycineta leucorrhoa* | 13 | Wet | Ins | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |  | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| *Hirundo rustica* | 15 | Terr | Ins | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |  | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| **Troglodytidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Troglodites aedon* | 10 | Terr | Ins | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Polioptilidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Polioptila dumicola* | 11 | Terr | Ins | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| **Turdidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Turdus amaurochalinus* | 21 | Terr | Omn | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Turdus rufiventris* | 23 | Terr | Omn | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Mimidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Mimus saturninus* | 25 | Terr | Omn | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| *Mimus triurus* | 22 | Terr | Omn | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| **Motacillidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Anthus lutescens* | 12 | Terr | Ins | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Parulidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Geothlypis aequinoctialis* | 12 | Terr | Ins | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Thraupidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Embernagra platensis* | 20 | Terr | Omn | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 |  | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Microspingus melanoleuca* | 14 | Terr | Herb | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Poospiza nigrorufa* | 15 | Terr | Omn | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Paroaria coronata* | 17 | Terr | Omn | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| *Thraupis sayaca* | 15 | Terr | Herb | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 |  | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| *Saltator caerulescens* | 20 | Terr | Omn | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Sicalis flaveola* | 12 | Terr | Herb | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Sicalis luteola* | 12 | Terr | Herb | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Volatinia jacarina* | 9 | Terr | Herb | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Sporophila caerulescens* | 10 | Terr | Herb | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Sporophila collaris* | 11 | Wet | Herb | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Sporophila hypoxantha* | 9 | Terr | Herb | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Sporophila hypochroma* | 9 | Terr | Herb | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Sporophila ruficollis* | 9 | Terr | Herb | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Emberizidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Ammodramus humeralis* | 11 | Terr | Omn | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Zonotrichia capensis* | 12 | Terr | Omn | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Icteridae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Agelaioides badius* | 18 | Terr | Omn | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Agelasticus cyanopus* | 18 | Hum | Omn | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Agelasticus thilius* | 17 | Hum | Omn | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Molothrus bonariensis* | 19 | Terr | Omn | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Molothrus rufoaxilaris* | 18 | Terr | Omn | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Chrysomus ruficapillus* | 17 | Wet | Omn | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Dolichonyx oryzivorus* | 15 | Terr | Omn | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Pseudoleistes virescens* | 21 | Wet | Omn | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Sturnella superciliaris* | 17 | Terr | Omn | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Traits included body size (cm), habitat (one of three categories related with three types of general habitats: Terr, terrestrial; Wet, wetland and Aqua, aquatic), diet (one of four categories assigned to represent the predominant trophic items in the diet: Omn, omnivore; Herb, herbivore; Ins, insectivore and Carn, carnivore; adapted of Flynn et al., 2009 and based on trophic studies of the region listed in Digital Appendix 3), main components of diet (presence-absence of eight trophic items in the diet: Fr, fruits; Ste, stems and leaves; Se, seeds; Ne, nectar; Inv, invertebrates; Fis, fishes; Ot Ver, other vertebrates, Car, carrion; based on trophic studies of the region listed in Digital Appendix 3), foraging substrate (presence-absence of eight categories: Wat, water; Gro, ground; Mud, mud; Her, herbaceous stratum; Shr, shrub stratum; Arb, arboreal stratum; Air, air; Bar, bark; adapted from Mönkkönen et al., 2017) and foraging method (presence-absence of eight categories: Gle, gleaning; Pro, probing; Pur, pursuit; HunAir, hunting from the air; Pou, pouncing; Dig, digging; Fil, filtration; Sca, Scavenging; adapted from Mönkkönen et al., 2017).

**Digital Appendix 3**

List of references used to compile ecomorphological characterization of recorded birds

Alessio, V.G., & Beltzer, A. (2003). Biología de la alimentación del Espinero grande *Phacellodomus ruber* (Aves: Furnariidae) en el valle de inundación del río Paraná, Argentina. *Revista Nodo, 8*, 91-102.

Alessio, V.G., Beltzer, A.H., Lajmanovich R.C., & Quiroga M.A. (2005). Ecología alimentaria de algunas especies de Passeriformes (Furnariidae, Tyrannidae, Icteridae y Emberizidae): consideraciones sobre algunos aspectos del nicho ecológico. *INSUGEO, Miscelánea, 14*, 441-482.

Alessio, V.G., Beltzer, A.H., & Quiroga M.A. (2008). Biología alimentaria del Suirirí amarillo, *Satrapa icterophrys* y del Suirirí grande, *Tyrannus melancholicus* (Aves: Tyrannidae) en el valle aluvial del Paraná, Argentina. *FABICIB, 12*, 149-159.

Bagnarol, M., Beltzer, A, Quiroga, M., Ducommun, M.P., & Ronchi Virgolini, A.L. (2010). Feeding biology of Pectoral Sandpiper *Calidris melanotos* (Birds: Scolopacidae) in the floodplain of the Paraná River, Argentina. *Natura Neotropicalis, 41*, 5-17.

Beltzer, A.H. (1983). Alimentación de la Garcita Azulada (*Butorides striatus*) en el valle aluvial del río Paraná Medio (Ciconiiformes: Ardeidae). *Revue d'Hydrobiologie Tropicale, 18*, 203-206.

Beltzer, A.H. (1984). Alimentación de *Phaetusa simplex* (Gmelin, 1789) (Aves: Sternidae) en el valle aluvial del río Paraná medio, Argentina. *Iheringia. Série Zoologia*, *64*, 47-52.

Beltzer, A.H. (1985). Ecología alimentaria de *Fluvicola pica albiventer* Spix, 1825 "Viudita blanca" (Aves: Tyrannidae) en el valle aluvial del rio Paraná Medio, Argentina. *Historia Natural, 5*, 61-66.

Beltzer, A.H. (1986). Ecologie alimentarie de *Tringa flavipes* (Gmelin, 1789) (Oiseaux: Scolopacidae) dans la Lagune del Cristal (Santa Fe, Argentine). Universidad de São Paulo*. Bolm Zoologia Universidade Sao Paulo, 10*, 87-94.

Beltzer, A.H. (1986). Nota sobre la alimentación de *Charadrius collaris* “Chorlito de collar” (Aves: Charadriidae) en la lagura del Cristal (Santa Fe, Argentina). *Boletín Asociación Ciencias Naturales del Litoral, 6*, 5-9.

Beltzer, A.H. (1987). Ecología alimentaria de Batará grande *Taraba major* (Aves: Formicariidae) en el valle aluvial del río Paraná Medio, Argentina. *Studies on Neotropical Fauna and Environment, 22*, 137-144.

Beltzer, A.H. (1988a). Consideraciones sobre la ecología alimentaria del Chiviro de isla *Saltator coerulescens coerulescens* y el Chiviro de corbata *Saltator aurantiirostris* (Aves: Emberizidae) en el valle aluvial del río Paraná medio (Argentina). *Studies on Neotropical Fauna and Environment, 23*, 9-23.

Beltzer, A.H. (1988b). Biología alimentaria del Tordo mulato *Molothrus badius badius* (Aves: Icteridae) en el valle aluvial del río Paraná medio, Argentina. *Revista de la Asociacion de Ciencias Naturales del Litoral, 19*, 113-121.

Beltzer, A.H. (1988c). Alimentación de *Calidris fuscicollis* Vieillot, 1819 (Aves: Scolopacidae) en la laguna Del Cristal, Cuenca del Saladillo, Santa Fe, Argentina. *Iheringia, Serie Miscelanea, 20*, 53-62.

Beltzer, A.H. (1990a). Biología alimentaria del Verdón común *Embernagra platensis platensis* (Aves Emberizidae) en el valle aluvial del río Paraná medio, Argentina. *Ornitología Neotropical, 1*, 25-30.

Beltzer, A.H. (1990b). Notes on the food of the Rufescent Tiger Heron *Tigrisoma lineatum* (Aves: Ardeidae) in the Middle Paraná River Floodplain, Argentine. *Studies on Neotropical Fauna and Environment, 25,* 93-96.

Beltzer, A.H. (1995). Biología alimentaria del Pirincho *Guira guira* (Aves: Cuculidae) en el valle aluvial del río Paraná Medio, Argentina.  *Revista de Ecología Latinoamericana, 2*, 13-18.

Beltzer, A.H. (1997). *Cinclodes fuscus* (Aves: Furnariidae). A benthophagous bird in the Paraná River floodplain, Argentina. *Natura Neotropicalis, 28*, 85-93.

Beltzer, A.H. (2003). Aspectos tróficos de la comunidad de aves de los Esteros del Iberá. In B.B. Alvarez (Ed.), *Fauna del Iberá* (pp. 257-272). Corrientes, Argentina: Universidad Nacional del Nordeste.

Beltzer, A.H. & de Amsler Paporello G. (1984). Food and feeding habits of the wattled *Jacana jacana*, (Charadriformes: Jacanidae) in Middle Parana River Floodplain. *Studies on Neotropical Fauna and Environment, 19*, 195-200.

Beltzer, A.H. & Lajmanovich, R.C. (1990). Aportes al conocimiento de la alimentación de algunos chorlos (Aves: Charadriidae y Scolopacidae) en el Paraná Medio, Argentina. *Revista de la Asociación de Ciencias Naturales del Litoral, 21*, 175-182.

Beltzer, A.H. & Mosso, E.D. (1992) Alimentación de algunos patos (Aves: Anatidae) en el valle aluvial del rio Paraná, Argentina. *Revista de la Asociación de Ciencias Naturales del Litoral,* *23*, 37-43.

Beltzer, A.H. & Oliveros, O. (1981) Alimentación de aves del valle aluvial del río Paraná Medio II. *Egretta alba egretta* (Gmelin, 1789) y *Egretta thula thula* (Molina, 1782) (Ciconiiformes: Ardeidae). *Ecología, 6*, 119-124.

Beltzer, A.H. & Muñoz, D. (2001). Espectro trófico, selección del hábitat y ritmo circadiano de actividad alimentaria de *Butorides striatus* (Aves: Ardeidae) en el valle de inundación del río Paraná, Argentina. *Natura Neotropicalis*, *32*, 01-11.

Beltzer, A.H., Sabattini R.A., & Marta M.C. (1990). Ecología alimentaria de la Polla de agua negra *Gallinulla chloropus galeata* (Aves: Rallidae) en un ambiente lenítico del río Paraná Medio, Argentina. *Ornitología Neotropical*, *2*, 29-36.

Beltzer, A.H., Quiroga, M., Latino, S., & Comini, B. (2004). Feeding ecology of the Grayish Saltator *Saltator coerulescens* (Aves: Emberizidae) in the Paraná river floodplain (Argentina). *Orsis, 19*, 91-99.

Darrieu, C.A., Camperi, A.R., & Cicchino, A.C. (1996). Ecología alimentaria de *Pseudoleistes virescens* (Vieillot 1819) (Aves, Icteridae), en ambientes ribereños del nordeste de la provincia de Buenos Aires, Argentina. *Serie Informe C.I.C., 51*, 1-14.

Darrieu, C.A., Camperi, A.R., Soave, G.E., & Cicchino, A.C. (2001) Ecología alimentaria del Varillero ala amarilla (*Agelaius thilius*) en ambientes ribereños del nordeste de la provincia de Buenos Aires. *Ornitología Neotropical, 12*, 205-214.

De la Peña, M.R. (2001). Observaciones de campo en la alimentación de las aves. *FAVE, 15*, 99-107.

De la Peña, M.R. (2002). Nuevas observaciones en la alimentación de las aves. *FAVE Sección Ciencias Veterinarias, 1*, 60-64.

De La Peña, M.R. (2005). Las aves de la reserva de Esperanza (Santa Fe). Santa Fe, Argentina: Ediciones UNL.

De la Peña, M.R. (2006). Observaciones de campo en la forma de capturar el alimento por algunas aves. *FAVE, 5,* 25-35.

De la Peña, M.R. (2013). Observaciones de campo en la alimentación de las aves. *Biológica*, *13*, 1-88.

[De la Peña, M.R. (2016). Aves Argentinas: Descripción, Comportamiento, Reproducción y Distribución. Rheidae a Pelecanoididae.](http://www.museoameghino.gob.ar/archivos/repositorios/172_descarga_155_de_la_pena_mr_2016_aves_argentinas_descripcion_comportamiento_reproduccion_y_distribucion_rheidae_a_pelecanoididae_com_mus_prov_cs_nat_florentino_ameghino_nueva_serie_19_1_1459.pdf" \o "archivo" \t "_blank) *[Comunicaciones del Museo Provincial de Ciencias Naturales](http://www.museoameghino.gob.ar/archivos/repositorios/172_descarga_155_de_la_pena_mr_2016_aves_argentinas_descripcion_comportamiento_reproduccion_y_distribucion_rheidae_a_pelecanoididae_com_mus_prov_cs_nat_florentino_ameghino_nueva_serie_19_1_1459.pdf" \o "archivo" \t "_blank)**[Florentino Ameghino (Nueva Serie), 19,](http://www.museoameghino.gob.ar/archivos/repositorios/172_descarga_155_de_la_pena_mr_2016_aves_argentinas_descripcion_comportamiento_reproduccion_y_distribucion_rheidae_a_pelecanoididae_com_mus_prov_cs_nat_florentino_ameghino_nueva_serie_19_1_1459.pdf" \o "archivo" \t "_blank)* [1-459.](http://www.museoameghino.gob.ar/archivos/repositorios/172_descarga_155_de_la_pena_mr_2016_aves_argentinas_descripcion_comportamiento_reproduccion_y_distribucion_rheidae_a_pelecanoididae_com_mus_prov_cs_nat_florentino_ameghino_nueva_serie_19_1_1459.pdf" \o "archivo" \t "_blank)

[De la Peña, M.R. (2016). Aves Argentinas: Descripción, Comportamiento, Reproducción y Distribución. Ciconiidae a Heliornithidae.](http://www.museoameghino.gob.ar/archivos/repositorios/172_descarga_156_de_la_pena_mr_2016_aves_argentinas_descripcion_comportamiento_reproduccion_y_distribucion_ciconiidae_a_heliornithidae_com_mus_prov_cs_nat_florentino_ameghino_nueva_serie_19_2_1437.pdf" \o "archivo" \t "_blank) *[Comunicaciones del Museo Provincial de Ciencias Naturales](http://www.museoameghino.gob.ar/archivos/repositorios/172_descarga_156_de_la_pena_mr_2016_aves_argentinas_descripcion_comportamiento_reproduccion_y_distribucion_ciconiidae_a_heliornithidae_com_mus_prov_cs_nat_florentino_ameghino_nueva_serie_19_2_1437.pdf" \o "archivo" \t "_blank)**[Florentino Ameghino (Nueva Serie), 19](http://www.museoameghino.gob.ar/archivos/repositorios/172_descarga_156_de_la_pena_mr_2016_aves_argentinas_descripcion_comportamiento_reproduccion_y_distribucion_ciconiidae_a_heliornithidae_com_mus_prov_cs_nat_florentino_ameghino_nueva_serie_19_2_1437.pdf" \o "archivo" \t "_blank)*[, 1-437.](http://www.museoameghino.gob.ar/archivos/repositorios/172_descarga_156_de_la_pena_mr_2016_aves_argentinas_descripcion_comportamiento_reproduccion_y_distribucion_ciconiidae_a_heliornithidae_com_mus_prov_cs_nat_florentino_ameghino_nueva_serie_19_2_1437.pdf" \o "archivo" \t "_blank)

[De la Peña, M.R. (2016) Aves Argentinas: Descripción, Comportamiento, Reproducción y Distribución. Charadriidae a Trochilidae.](http://www.museoameghino.gob.ar/archivos/repositorios/172_descarga_157_de_la_pena_mr_2016_aves_argentinas_descripcion_comportamiento_reproduccion_y_distribucion_charadriidae_a_trochilidae_com_mus_prov_cs_nat_florentino_ameghino_nueva_serie_20_1_1627.pdf" \o "archivo" \t "_blank) *[Comunicaciones del Museo Provincial de Ciencias Naturales](http://www.museoameghino.gob.ar/archivos/repositorios/172_descarga_157_de_la_pena_mr_2016_aves_argentinas_descripcion_comportamiento_reproduccion_y_distribucion_charadriidae_a_trochilidae_com_mus_prov_cs_nat_florentino_ameghino_nueva_serie_20_1_1627.pdf" \o "archivo" \t "_blank)**[Florentino Ameghino (Nueva Serie),](http://www.museoameghino.gob.ar/archivos/repositorios/172_descarga_157_de_la_pena_mr_2016_aves_argentinas_descripcion_comportamiento_reproduccion_y_distribucion_charadriidae_a_trochilidae_com_mus_prov_cs_nat_florentino_ameghino_nueva_serie_20_1_1627.pdf" \o "archivo" \t "_blank)**[20](http://www.museoameghino.gob.ar/archivos/repositorios/172_descarga_157_de_la_pena_mr_2016_aves_argentinas_descripcion_comportamiento_reproduccion_y_distribucion_charadriidae_a_trochilidae_com_mus_prov_cs_nat_florentino_ameghino_nueva_serie_20_1_1627.pdf" \o "archivo" \t "_blank)*[, 1-627.](http://www.museoameghino.gob.ar/archivos/repositorios/172_descarga_157_de_la_pena_mr_2016_aves_argentinas_descripcion_comportamiento_reproduccion_y_distribucion_charadriidae_a_trochilidae_com_mus_prov_cs_nat_florentino_ameghino_nueva_serie_20_1_1627.pdf" \o "archivo" \t "_blank)

[De la Peña, M.R. (2016). Aves Argentinas: Descripción, Comportamiento, Reproducción y Distribución. Trogonidae a Furnariidae.](http://www.museoameghino.gob.ar/archivos/repositorios/172_descarga_158_de_la_pena_mr_2016_aves_argentinas_descripcion_comportamiento_reproduccion_y_distribucion_trogonidae_a_furnariidae_com_mus_prov_cs_nat_florentino_ameghino_nueva_serie_20_2_1620.pdf" \o "archivo" \t "_blank) *[Comunicaciones del Museo Provincial de Ciencias Naturales Florentino Ameghino (Nueva Serie), 20](http://www.museoameghino.gob.ar/archivos/repositorios/172_descarga_158_de_la_pena_mr_2016_aves_argentinas_descripcion_comportamiento_reproduccion_y_distribucion_trogonidae_a_furnariidae_com_mus_prov_cs_nat_florentino_ameghino_nueva_serie_20_2_1620.pdf" \o "archivo" \t "_blank)*[, 1-620.](http://www.museoameghino.gob.ar/archivos/repositorios/172_descarga_158_de_la_pena_mr_2016_aves_argentinas_descripcion_comportamiento_reproduccion_y_distribucion_trogonidae_a_furnariidae_com_mus_prov_cs_nat_florentino_ameghino_nueva_serie_20_2_1620.pdf" \o "archivo" \t "_blank)

[De la Peña, MR (2016). Aves Argentinas: Descripción, Comportamiento, Reproducción y Distribución. Tyrannidae a Turdidae.](http://www.museoameghino.gob.ar/archivos/repositorios/172_descarga_159_de_la_pena_mr_2016_aves_argentinas_descripcion_comportamiento_reproduccion_y_distribucion_tyrannidae_a_turdidae_com_mus_prov_cs_nat_florentino_ameghino_nueva_serie_20_2_1639.pdf" \o "archivo" \t "_blank) *[Comunicaciones del Museo Provincial de Ciencias Naturales Florentino Ameghino (Nueva Serie), 21](http://www.museoameghino.gob.ar/archivos/repositorios/172_descarga_159_de_la_pena_mr_2016_aves_argentinas_descripcion_comportamiento_reproduccion_y_distribucion_tyrannidae_a_turdidae_com_mus_prov_cs_nat_florentino_ameghino_nueva_serie_20_2_1639.pdf" \o "archivo" \t "_blank)*[, 1-639.](http://www.museoameghino.gob.ar/archivos/repositorios/172_descarga_159_de_la_pena_mr_2016_aves_argentinas_descripcion_comportamiento_reproduccion_y_distribucion_tyrannidae_a_turdidae_com_mus_prov_cs_nat_florentino_ameghino_nueva_serie_20_2_1639.pdf" \o "archivo" \t "_blank)

[De la Peña, M.R. (2016). Aves Argentinas: Descripción, Comportamiento, Reproducción y Distribución. Mimidae a Passeridae.](http://www.museoameghino.gob.ar/archivos/repositorios/172_descarga_160_de_la_pena_mr_2016_aves_argentinas_descripcion_comportamiento_reproduccion_y_distribucion_mimidae_a_passeridae_com_mus_prov_cs_nat_florentino_ameghino_nueva_serie_21_2_1569.pdf" \o "archivo" \t "_blank) *[Comunicaciones del Museo Provincial de Ciencias Naturales Florentino Ameghino (Nueva Serie), 21](http://www.museoameghino.gob.ar/archivos/repositorios/172_descarga_160_de_la_pena_mr_2016_aves_argentinas_descripcion_comportamiento_reproduccion_y_distribucion_mimidae_a_passeridae_com_mus_prov_cs_nat_florentino_ameghino_nueva_serie_21_2_1569.pdf" \o "archivo" \t "_blank)*[, 1-569.](http://www.museoameghino.gob.ar/archivos/repositorios/172_descarga_160_de_la_pena_mr_2016_aves_argentinas_descripcion_comportamiento_reproduccion_y_distribucion_mimidae_a_passeridae_com_mus_prov_cs_nat_florentino_ameghino_nueva_serie_21_2_1569.pdf" \o "archivo" \t "_blank)

De la Peña, M.R., & Pensiero, J.F. (2003). Contribución de la flora en los hábitos alimentarios de las aves en un bosque del centro de la provincia de Santa Fe, Argentina. *Ornitología Neotropical*, *14*, 499-513.

Del Barco, O.D., & Beltzer, A.H. (2002). Dieta de *Pardirallus maculatus* (Aves: Rallidae) en el Paraná Medio (Santa fe, Argentina). *FAVE, 1*, 51-58.

Del Barco, O.D., & Beltzer, A.H. (2005). Ecología alimentaria del Tordo Músico, *Agelaioides badius* (Aves: Icteridae) en el valle de inundación del río Paraná. *R. FABICIB, 9*, 41-46.

Don, M.A., Beltzer, A.H., León, E., Olguín, P., & Urich, G. (2012). Biología alimentaria del Pato Cutirí *Amazonetta brasilensis* (Aves: Anatidae) en el valle de inundación del río Paraná medio, Argentina. *FABICIB, 16*, 142-156.

Ducomun, M.P., Quiroga, M.A., Beltzer, A.H., & Schnack, J.A. (2008). Diet of Cattle Egrets (*Bubulcus ibis ibis*) in the flood valley of the Paraná River, northern Argentina. *Avian Biology Research, 1*, 145-151.

Laimanovich, R.C., & Beltzer, A.H. (1993). Aporte al conocimiento de la biología alimentaria de la Pollona Negra (*Gallinula chloropus*) en el Paraná Medio, Argentina. *Hornero, 13*, 289-291.

Lajmanovich, R.C., & Beltzer, A.H. (1995). Aspectos de la alimentación de la Becasina común *Gallinago gallinago* (Aves: Scolopacidae) en el valle aluvial del Paraná medio, Argentina. *Studies on Neotropical Fauna and Environment, 30*, 121-127.

Latino, S., & Beltzer, A.H. (1999). Ecología trófica del Benteveo *Pitangus sulphuratus* (Aves: Tyrannidae) en el valle de inundación del río Paraná, Argentina. *Orsis, 14*, 69-78.

Lorenzón, R.E., Ronchi-Virgolini, A.L., & Beltzer, A.H. (2013). Ecología trófica de la Garza blanca Ardea alba (Pelecaniformes: Ardeidae) en un humedal del río Paraná, Argentina. *UNED Research Journal, 5*(1), 121-127.

Olguín, P.F., Beltzer, A.H., & Campana, M. (2013). Dieta del Gaviotín chico (*Sterna supercilliaris*) (Aves: Sternidae) en el valle de inundación del río Paraná Medio, Argentina. *FABICIB, 17*, 113-120.

Ordano, M., Bosisio, A., Boscaro, B., Beltzer, A.H., & de Amsler, G.P. (1999). Stomach contents of thirty six bird species from Northern Argentina. *R. Ceres, 46*, 555-563.

Quiroga, M., León, E., Beltzer, A., & Olguin, P. (2013). Diet of Black-crowned Night-herons (*Nycticorax nycticorax*) in a Wetland of the Parana River´s Alluvial Valley. *Ekoloji, 22*, 43-50.

Reales, F., Urich, G., Deshayes, N., Medrano, J., Alessio, V., Leon, … Quiroga, M. (2009). Contribución al conocimiento de los gremios tróficos en un ensamble de aves de cultivo del Paraná medio. *FAVE, 8*, 57-65.

Rozzatti, J.C., Marteleur, G., & Beltzer, A.H. (1995). Dieta del Pato Capuchino *Anas versicolor* (Aves: Anatidae) en la provincia de Santa Fe Argentina. *Revista de Ecología Latinoamericana,* *3*, 19-24.

Soave, G.E., Camperi, A.R, Darrieu, C.A., Cicchino, A.C., Ferretti, V., & Juarez, M. (2006). White-faced Ibis Diet in Argentina. *Waterbirds, 29*, 191-197.

Zotta, A.R. (1932). Notas sobre el contenido estomacal de algunas aves. *Hornero, 5*, 77-81.

Zotta, A.R. (1934). Sobre el contenido estomacal de aves argentinas. *Hornero, 5*, 376-383.

Zotta, A.R. (1936). Sobre el contenido estomacal de aves argentinas. *Hornero, 5*, 261-270.

Zotta, A.R. (1940). Lista sobre el contenido estomacal de las aves argentinas. *Hornero, 7*, 402-411.