S1 Appendix for:

Avian binocular vision: it’s not just about what birds can see, it’s also about what they can’t

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Common Name*** | ***Latin Name*** | ***Foraging group*** | ***n*** | ***Binocular width*** | ***Standardized ABAL*** | ***Standardized blind gap*** | ***Standardized beak length*** | ***Resting binocular width*** | ***Standardized blind gap with eyes at rest*** | ***Distance from focal point to beak tip*** | ***Internodal distance*** | ***Skull width*** |
| Coopers Hawk | *Accipiter cooperii* | raptor | 4 | 24u | 1.70 | 0.67 | 0.51 | 24u | 0.67 | 33.87 | 23.88 | 33.04 |
| Northern Shoveler | *Anas clypeata* | tactile | 4 | 15d | 2.43 | -1.90 | 2.62 | 15d | -1.90 | 92.14 | 13.61 | 21.25 |
| Eurasian Wigeon | *Anas penelope* | pecking | 2 | 16d | 2.00 | -0.66 | 1.31 | 16d | -0.66 | 64.29 | 13.59 | 24.17 |
| Mallard | *Anas platyrhynchos* | tactile | 4 | 8h | 4.38 | 1.30 | 1.72 | 8h | 1.30 | 86.51 | 17.21 | 28.13 |
| Squacco Heron | *Ardeola ralloides* | predator | 2 | 18.5l | 2.33 | -1.95 | 3.30 | 10l | 0.13 | 86.40 | 15.32 | 20.20 |
| Tufted Titmouse | *Baeolophus bicolor* | predator | 4 | 78s | 0.34 | -0.67 | 0.64 | 53s | -0.45 | 15.84 | 8.71 | 15.73 |
| Cattle Egret | *Bubulcus ibis* | predator | 4 | 22.5l | 1.82 | -1.28 | 2.05 | 10l | 0.91 | 73.40 | 17.16 | 23.67 |
| Red-tailed Hawk | *Buteo jamaicensis* | raptor | 4 | 18u | 1.87 | 0.85 | 0.47 | 18u | 0.85 | 51.56 | 29.99 | 50.70 |
| Short-toed Snake Eagle | *Circaetus gallicus* | raptor | 2 | 15m | 2.46 | 1.52 | 0.40 | 15m | 1.52 | 62.51 | 42.81 | 66.03 |
| Rock Pigeon | *Columba livia* | pecking | 4 | 28r | 1.52 | -0.22 | 1.14 | 19r | 0.52 | 33.30 | 14.50 | 19.09 |
| Pied Crow | *Corvus albus* | pecking | 1 | 30v | 1.24 | -0.34 | 1.14 | 8v | 3.00 | 63.21 | 26.67 | 40.00 |
| American Crow | *Corvus brachyrhynchos* | pecking | 4 | 41b | 0.88 | -0.93 | 1.22 | 37b | -0.82 | 67.08 | 24.41 | 37.23 |
| Common Raven | *Corvus corax* | pecking | 4 | 34v | 1.00 | -0.74 | 1.34 | 19v | 0.07 | 82.85 | 29.15 | 47.67 |
| Carrion Crow | *Corvus corone* | pecking | 2 | 29v | 1.18 | -0.34 | 1.21 | 11v | 1.70 | 56.17 | 22.49 | 36.85 |
| Rook | *Corvus frugilegus* | pecking | 2 | 32v | 1.13 | -0.48 | 1.18 | 13v | 1.34 | 55.22 | 22.25 | 34.46 |
| Jackdaw | *Corvus monedula* | pecking | 2 | 40v | 0.82 | -0.42 | 0.90 | 22v | 0.28 | 36.39 | 17.59 | 29.46 |
| New Caledonian Crow | *Corvus moneduloides* | pecking | 1 | 40v | 0.85 | -0.15 | 0.67 | 14v | 1.50 | 55.90 | 34.50 | 55.44 |
| American Kestrel | *Falco sparverius* | raptor | 6 | 22u | 1.77 | 0.82 | 0.47 | 22u | 0.82 | 22.88 | 16.67 | 24.29 |
| Dark-eyed Junco | *Junco hyemalis* | pecking | 4 | 62t | 0.48 | -0.82 | 0.73 | 36t | -0.42 | 19.67 | 8.66 | 15.16 |
| Pink-eared Duck | *Malacorhynchus membranaceus* | tactile | 2 | 15k | 2.43 | 0.05 | 1.66 | 15k | 0.05 | 89.32 | 24.06 | 37.56 |
| Song Sparrow | *Melospiza melodia* | pecking | 2 | 49t | 0.68 | -0.63 | 0.70 | 38t | -0.41 | 20.55 | 9.69 | 15.75 |
| Black-crowned Night Heron | *Nycticorax nycticorax* | predator | 4 | 22e | 1.86 | -1.15 | 2.09 | 13e | 0.08 | 109.89 | 26.39 | 36.58 |
| Carolina Chickadee | *Parus carolinensis* | predator | 4 | 76s | 0.36 | -0.61 | 0.63 | 51s | -0.38 | 12.39 | 7.24 | 12.80 |
| Great Cormorant | *Phalacrocorax carbo* | predator | 2 | 24q | 1.54 | -1.53 | 2.28 | 13q | -0.12 | 94.74 | 20.19 | 30.94 |
| Lesser Flamingo | *Phoeniconaias minor* | tactile | 3 | 7j | 6.36 | 1.76 | 3.50 | 7j | 1.76 | 114.05 | 19.29 | 24.79 |
| Eastern Towhee | *Pipilo erythrophthalmus* | pecking | 2 | 67t | 0.50 | -0.82 | 0.73 | 37t | -0.34 | 24.89 | 12.39 | 18.90 |
| European Golden Plover | *Pluvialis apricaria* | pecking | 2 | 12p | 3.27 | 1.45 | 1.36 | 12p | 1.45 | 38.66 | 14.58 | 21.18 |
| Manx Shearwater | *Puffinus puffinus* | predator | 3 | 22i | 1.57 | 0.24 | 0.96 | 16i | 0.84 | 55.45 | 25.41 | 41.65 |
| Black Skimmer | *Rynchops niger* | tactile | 4 | 16o | 2.31 | -1.05 | 2.71 | 16o | -1.05 | 96.21 | 18.56 | 28.65 |
| Black Phoebe | *Sayornis nigricans* | predator | 1 | 40c | 0.96 | -0.78 | 1.32 | 32c | -0.53 | 23.62 | 9.45 | 13.58 |
| White-breasted Nuthatch | *Sitta carolinensis* | predator | 4 | 55s | 0.54 | -1.34 | 1.23 | 45s | -1.20 | 29.03 | 8.67 | 15.50 |
| American Tree Sparrow | *Spizella arborea* | pecking | 4 | 42t | 0.78 | -0.55 | 0.89 | 38t | -0.46 | 19.13 | 8.63 | 14.33 |
| Chipping Sparrow | *Spizella passerina* | pecking | 4 | 58t | 0.54 | -0.76 | 0.71 | 38t | -0.43 | 17.15 | 7.91 | 13.13 |
| Field Sparrow | *Spizella pusilla* | pecking | 2 | 57t | 0.56 | -0.69 | 0.64 | 39t | -0.39 | 17.04 | 8.33 | 13.66 |
| Ostrich | *Struthio camelus* | pecking | 2 | 20n | 2.09 | 0.44 | 1.01 | 20n | 0.44 | 118.96 | 53.15 | 72.02 |
| Eastern Meadowlark | *Sturnella magna* | pecking | 4 | 45w | 0.74 | -0.86 | 1.16 | 32w | -0.54 | 33.12 | 12.63 | 20.71 |
| European Starling | *Sturnus vulgaris* | pecking | 4 | 44g | 0.75 | -0.90 | 1.31 | 22g | -0.09 | 30.69 | 11.29 | 18.60 |
| Black-browed Albatross | *Thalassarche melanophrys* | predator | 1 | 22f | 1.63 | -0.89 | 1.55 | 7f | 2.93 | 148.33 | 37.33 | 58.73 |
| Mourning Dove | *Zenaida macroura* | pecking | 6 | 11a | 3.77 | 2.10 | 1.04 | 9a | 2.95 | 25.71 | 11.20 | 15.40 |
| White-throated Sparrow | *Zonotrichia albicollis* | pecking | 2 | 47t | 0.70 | -0.39 | 0.68 | 39t | -0.23 | 17.77 | 9.92 | 16.39 |

**S1 Table.** Data table for the 40 species used in analyses. Units for binocular field widths are in degrees. Unless specifically noted, values were calculated using converged binocular field widths. Units for the distance from focal point to peak tip, internodal distance, and skull width are in mm. Standardized parameters were divided by skull width to control for body size. Negative values of standardized blind gap indicate the ability to see the beak tip and positive values indicate the inability to see the beak tip. If no resting binocular state was reported in the literature, we calculated it as the extrapolated converged binocular – (0.33 \* (extrapolated converged binocular – diverged binocular)) which is the proportion for starlings in Martin 1986.

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SPECIMEN INFORMATION

No live animals were used in this study. All visual field data was gathered from previously published literature. All morphological measurements were obtained from specimens that are accessible in the Bird Specimen Collection permanent repository at the Field Museum of Natural History in Chicago, IL, USA. Specimen numbers can be found below.

| **Common name** | **Species name** | **Specimen ID** | **Eye to beak tip (mm)** | **Beak length (mm)** | **internodal distance (mm)** | **Skull width (mm)** | **Sex** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Cooper's Hawk | *Accipiter cooperii* | 496838 | 37.82 | 17.42 | 24.78 | 37.7 | female |
| Cooper's Hawk | *Accipiter cooperii* | 498646 | 31.39 | 16.28 | 24 | 31.63 | male |
| Cooper's Hawk | *Accipiter cooperii* | 492437 | 31.22 | 16.05 | 22.81 | 29.46 | male |
| Cooper's Hawk | *Accipiter cooperii* | 495206 | 35.05 | 17.56 | 23.91 | 33.38 | female |
| Northern Shoveler | *Anas clypeata* | 339047 | 98.09 | 57.87 | 13.31 | 21.83 | male |
| Northern Shoveler | *Anas clypeata* | 436228 | 88.91 | 53.68 | 12.79 | 20.49 | female |
| Northern Shoveler | *Anas clypeata* | 351036 | 85.35 | 52.16 | 14.43 | 20.69 | female |
| Northern Shoveler | *Anas clypeata* | 496821 | 96.21 | 58.65 | 13.9 | 21.98 | male |
| Eurasian Wigeon | *Anas penelope* | 104076 | 65.05 | 31.55 | 13.93 | 23.65 | female |
| Eurasian Wigeon | *Anas penelope* | 105593 | 63.53 | 31.62 | 13.24 | 24.68 |  |
| Mallard | *Anas platyrhynchos* | 498630 | 91.44 | 50.1 | 17.06 | 28.18 | male |
| Mallard | *Anas platyrhynchos* | 496454 | 93.24 | 52.59 | 17.26 | 28.99 | male |
| Mallard | *Anas platyrhynchos* | 488415 | 77.15 | 44.12 | 15.91 | 26.64 | female |
| Mallard | *Anas platyrhynchos* | 495170 | 84.19 | 47.15 | 18.62 | 28.7 | female |
| Squacco Heron | *Ardeola ralloides* | 313700 | 86.72 | 67.42 | 15.99 | 20.27 | male |
| Squacco Heron | *Ardeola ralloides* | 313699 | 86.08 | 65.97 | 14.65 | 20.13 |  |
| Tufted Titmouse | *Baeolophus bicolor* | 336414 | 14.94 | 8.61 | 8.23 | 15.29 | female |
| Tufted Titmouse | *Baeolophus bicolor* | 336413 | 15.33 | 10.09 | 8.82 | 15.55 | male |
| Tufted Titmouse | *Baeolophus bicolor* | 395353 | 18.43 | 12.16 | 9 | 16.22 | male |
| Tufted Titmouse | *Baeolophus bicolor* | 377118 | 14.65 | 9.28 | 8.77 | 15.86 | female |
| Cattle Egret | *Bubulcus ibis* | 339299 | 72.46 | 48.25 | 16.52 | 24.05 | male |
| Cattle Egret | *Bubulcus ibis* | 339304 | 76.61 | 53.27 | 17.37 | 24.13 | male |
| Cattle Egret | *Bubulcus ibis* | 339297 | 71.46 | 47.31 | 18.1 | 22.88 | female |
| Cattle Egret | *Bubulcus ibis* | 375719 | 73.06 | 44.96 | 16.63 | 23.63 | female |
| Red-tailed Hawk | *Buteo jamaicensis* | 495229 | 48.75 | 20.75 | 29.72 | 48.53 | male |
| Red-tailed Hawk | *Buteo jamaicensis* | 495235 | 55.48 | 25.96 | 29.99 | 53.08 | female |
| Red-tailed Hawk | *Buteo jamaicensis* | 496844 | 51.77 | 23.33 | 29.44 | 50.24 | female |
| Red-tailed Hawk | *Buteo jamaicensis* | 498262 | 50.25 | 25.14 | 30.81 | 50.93 | male |
| Short-toed Snake Eagle | *Circaetus gallicus* | 106719 | 60.57 | 25.32 | 43.79 | 66.26 |  |
| Short-toed Snake Eagle | *Circaetus gallicus* | 106722 | 64.45 | 27.2 | 41.83 | 65.79 |  |
| Rock Pigeon | *Columba livia* | 500181 | 32.16 | 22.12 | 14.29 | 19.32 | female |
| Rock Pigeon | *Columba livia* | 496946 | 32.45 | 21.41 | 13.8 | 19.53 | female |
| Rock Pigeon | *Columba livia* | 498226 | 32.4 | 20.52 | 15.23 | 16.6 | male |
| Rock Pigeon | *Columba livia* | 495102 | 36.19 | 23.29 | 14.66 | 20.91 | male |
| Pied Crow | *Corvus albus* | 335648 | 63.21 | 45.45 | 26.67 | 40 | female |
| American Crow | *Corvus brachyrhynchos* | 441516 | 70.04 | 47.52 | 24.12 | 37.35 | male |
| American Crow | *Corvus brachyrhynchos* | 437427 | 76.81 | 51.42 | 24.48 | 38.83 | male |
| American Crow | *Corvus brachyrhynchos* | 428922 | 60.9 | 40.78 | 24.24 | 35.77 | female |
| American Crow | *Corvus brachyrhynchos* | 428924 | 60.57 | 42.1 | 24.79 | 36.95 | female |
| Common Raven | *Corvus corax* | 390650 | 80.75 | 62.72 | 29.89 | 45.6 | female |
| Common Raven | *Corvus corax* | 365062 | 83.59 | 65.68 | 29 | 48.11 | male |
| Common Raven | *Corvus corax* | 465345 | 81.23 | 63.62 | 27.9 | 48.1 | female |
| Common Raven | *Corvus corax* | 488640 | 85.84 | 64.09 | 29.82 | 48.87 | male |
| Carrion Crow | *Corvus corone* | 335644 | 56.56 | 45.91 | 22.6 | 37.92 | unknown |
| Carrion Crow | *Corvus corone* | 335643 | 55.77 | 43.02 | 22.38 | 35.78 | unknown |
| Rook | *Corvus frugilegus* | 335631 | 54.37 | 40.54 | 21.45 | 34.05 | unknown |
| Rook | *Corvus frugilegus* | 335630 | 56.07 | 40.45 | 23.05 | 34.87 | unknown |
| Jackdaw | *Corvus monedula* | 335626 | 36.96 | 27.81 | 18.19 | 29.46 | female |
| Jackdaw | *Corvus monedula* | 335625 | 35.82 | 25.49 | 16.99 | 29.46 | male |
| New Caledonian Crow | *Corvus monoduloides* | skin | 55.9 | 37.4 | 34.5 | 55.44 | unknown |
| American Kestrel | *Falco sparverius* | 428820 | 22.74 | 12.72 | 14.97 | 23.06 | male |
| American Kestrel | *Falco sparverius* | 475306 | 24 | 12.67 | 16.36 | 24.9 | female |
| American Kestrel | *Falco sparverius* | 379056 | 21.14 | 8.52 | 18.21 | 24.51 | male |
| American Kestrel | *Falco sparverius* | 468640 | 23.85 | 12.35 | 16.67 | 23.5 | female |
| American Kestrel | *Falco sparverius* | 436589 | 23.42 | 10.29 | 18.1 | 26.84 | female |
| American Kestrel | *Falco sparverius* | 435677 | 22.13 | 11.63 | 15.71 | 22.92 | male |
| Dark-eyed Junco | *Junco hyemalis* | 467381 | 20.44 | 11.09 | 8.59 | 15.35 | male |
| Dark-eyed Junco | *Junco hyemalis* | 467378 | 19.84 | 10.87 | 9.08 | 14.61 | male |
| Dark-eyed Junco | *Junco hyemalis* | 467379 | 19.11 | 10.93 | 8.45 | 15.25 | female |
| Dark-eyed Junco | *Junco hyemalis* | 467380 | 19.3 | 11.23 | 8.51 | 15.42 | female |
| Pink-eared Duck | *Malacorhynchos membranaceus* | 7581 | 96.16 | 63.28 | 20.34 | 38.4 | unknown |
| Pink-eared Duck | *Malacorhynchos membranaceus* | skin | 82.47 | 61.24 | 27.77 | 36.8 | unknown |
| Song Sparrow | *Melospiza melodia* | 384046 | 19.62 | 9.95 | 9.6 | 15.62 | male |
| Song Sparrow | *Melospiza melodia* | 386037 | 21.47 | 11.96 | 9.78 | 15.87 | female |
| Black-crowned Night Heron | *Nycticorax nycticorax* | 341924 | 113.67 | 80.98 | 23.76 | 36.06 | male |
| Black-crowned Night Heron | *Nycticorax nycticorax* | 483845 | 115.6 | 81.92 | 25.68 | 36.14 | male |
| Black-crowned Night Heron | *Nycticorax nycticorax* | 378445 | 101.98 | 69.32 | 28.66 | 36.53 | female |
| Black-crowned Night Heron | *Nycticorax nycticorax* | 342340 | 108.32 | 73.69 | 27.44 | 37.59 | female |
| Great Cormorant | *Phalacrocorax carbo* | 339390 | 105.95 | 78.55 | 22.5 | 33.1 | female |
| Great Cormorant | *Phalacrocorax carbo* | 368739 | 83.52 | 62.57 | 17.88 | 28.78 | female |
| Lesser Flamingo | *Phoeniconaias minor* | 339182 | 113.05 | 86.26 | 18.51 | 22.28 | male |
| Lesser Flamingo | *Phoeniconaias minor* | 339185 | 118.04 | 90.38 | 19.54 | 22.83 | male |
| Lesser Flamingo | *Phoeniconaias minor* | 339184 | 111.07 | 84 | 19.81 | 29.27 | female |
| Eastern Towhee | *Pipilo erythrophthalmus* | 435649 | 24.5 | 13.84 | 12.88 | 18.91 | male |
| Eastern Towhee | *Pipilo erythrophthalmus* | 318088 | 25.28 | 13.81 | 11.9 | 18.88 | female |
| European Golden Plover | *Pluvialis apricaria* | 376148 | 40.94 | 31.82 | 14.84 | 21.29 | male |
| European Golden Plover | *Pluvialis apricaria* | 338392 | 36.37 | 25.79 | 14.32 | 21.07 |  |
| Carolina Chickadee | *Poecile carolinensis* | 336404 | 11.12 | 6.58 | 7.67 | 12.87 | male |
| Carolina Chickadee | *Poecile carolinensis* | 432602 | 13.61 | 9.24 | 6.94 | 13.44 | male |
| Carolina Chickadee | *Poecile carolinensis* | 440346 | 11.64 | 7.43 | 6.9 | 11.79 |  |
| Carolina Chickadee | *Poecile carolinensis* | 428665 | 13.2 | 9.01 | 7.43 | 13.11 |  |
| Manx Shearwater | *Puffinus puffinus* | skin | 55.13 | 40.22 | 24.43 | 42.15 | unknown |
| Manx Shearwater | *Puffinus puffinus* | skin | 55.76 | 40.12 | 26.39 | 42.7 | unknown |
| Manx Shearwater | *Puffinus puffinus* | skin | 55.12 | 39.91 | 23.88 | 40.1 | unknown |
| Black Skimmer | *Rynchops niger* | 376311 | 102.97 | 84.72 | 17.17 | 28.12 | female |
| Black Skimmer | *Rynchops niger* | 376314 | 77.76 | 61.65 | 16.77 | 25.5 | female |
| Black Skimmer | *Rynchops niger* | 398882 | 113.68 | 91.82 | 20.01 | 30.79 | male |
| Black Skimmer | *Rynchops niger* | 338005 | 90.41 | 72.13 | 20.29 | 30.17 | male |
| Black Phoebe | *Sayornis nigricans* | 317866 | 23.62 | 17.94 | 9.45 | 13.58 |  |
| White-breasted Nuthatch | *Sitta carolinensis* | 437356 | 29.63 | 18.89 | 8.95 | 15.41 | male |
| White-breasted Nuthatch | *Sitta carolinensis* | 435445 | 29.3 | 19.19 | 9.14 | 15.81 | male |
| White-breasted Nuthatch | *Sitta carolinensis* | 440138 | 29.21 | 19.68 | 8.31 | 15.57 | female |
| White-breasted Nuthatch | *Sitta carolinensis* | 443491 | 27.96 | 18.29 | 8.27 | 15.21 | female |
| American Tree Sparrow | *Spizella arborea* | 436957 | 19.43 | 10.46 | 8.18 | 14.44 | male |
| American Tree Sparrow | *Spizella arborea* | 436953 | 19.25 | 19.25 | 8.99 | 14.65 | male |
| American Tree Sparrow | *Spizella arborea* | 436954 | 18.55 | 10.77 | 8.61 | 14.12 | female |
| American Tree Sparrow | *Spizella arborea* | 436955 | 19.27 | 10.59 | 8.72 | 14.12 | female |
| Chipping Sparrow | *Spizella passerina* | 340065 | 18.06 | 9.88 | 7.76 | 13.33 | male |
| Chipping Sparrow | *Spizella passerina* | 361013 | 17.16 | 9.34 | 7.5 | 12.69 | male |
| Chipping Sparrow | *Spizella passerina* | 383050 | 16.11 | 8.67 | 8.53 | 13.38 | female |
| Chipping Sparrow | *Spizella passerina* | 340066 | 17.25 | 9.36 | 7.85 | 13.11 | female |
| Field Sparrow | *Spizella pusilla* | 333082 | 17.7 | 9.31 | 8.32 | 13.98 | male |
| Field Sparrow | *Spizella pusilla* | 333080 | 16.37 | 8.3 | 8.33 | 13.33 | female |
| Eastern Meadowlark | *Sternella magna* | 88425 | 33.07 | 23.74 | 13.48 | 21.8 | female |
| Eastern Meadowlark | *Sternella magna* | 494969 | 33.49 | 24.46 | 12.73 | 20.75 | male |
| Eastern Meadowlark | *Sternella magna* | 348145 | 31.2 | 22.08 | 11.98 | 19.76 | male |
| Eastern Meadowlark | *Sternella magna* | 493373 | 34.7 | 25.47 | 12.31 | 20.52 | female |
| European Starling | *Sturnus vulgaris* | 488405 | 30.12 | 22.64 | 10.41 | 16.91 | female |
| European Starling | *Sturnus vulgaris* | 466186 | 36.1 | 27.33 | 12.95 | 19.09 | male |
| European Starling | *Sturnus vulgaris* | 470240 | 21.58 | 21.37 | 11.46 | 18.66 | female |
| European Starling | *Sturnus vulgaris* | 477254 | 34.95 | 26.42 | 10.34 | 19.75 | male |
| Ostrich | *Sturthio camelus* | 378755 | 114.92 | 72.72 | 43.3 | 72.02 | unknown |
| Ostrich | *Sturthio camelus* | full mount | 123 |  | 63 |  | unknown |
| Black-browed Albatross | *Thalassarche melanophris* | 339602 | 148.33 | 91.27 | 37.33 | 58.73 |  |
| Mourning Dove | *Zenaida macroura* | 337943 | 27.77 | 16.88 | 11.99 | 15.56 | male |
| Mourning Dove | *Zenaida macroura* | 337940 | 24.6 | 15.03 | 11.98 | 15.87 | female |
| Mourning Dove | *Zenaida macroura* | 337941 | 26.43 | 16.55 | 11.37 | 15.39 | female |
| Mourning Dove | *Zenaida macroura* | 390256 | 28.14 | 16.9 | 12.45 | 16.38 | male |
| Mourning Dove | *Zenaida macroura* | 427673 | 27.18 | 16.08 | 11.36 | 15.12 | female |
| Mourning Dove | *Zenaida macroura* | 390438 | 20.16 | 15.03 | 8.02 | 14.1 | male |
| White-throated Sparrow | *Zonotrichia albicollis* | 317565 | 18.08 | 10.7 | 9.92 | 16.17 | male |
| White-throated Sparrow | *Zonotrichia albicollis* | 317574 | 17.46 | 11.74 | 9.91 | 16.6 | female |
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