



Predation of Cuban Brown Anoles, *Anolis sagrei* (Squamata: Dactyloidae), by House Sparrows, *Passer domesticus* (Aves: Passeriformes), and an Annotated List of Lizards Preyed upon by House Sparrows

Luis F. de Armas

P.O. Box 4327, San Antonio de los Baños, Artemisa 38100, Cuba (luisdearmas1945@gmail.com)

The House Sparrow, *Passer domesticus* (Linnaeus 1758), is an opportunistic generalist that is mainly granivorous, but also consumes insects, human waste, and small vertebrates (Alonso 1985; Lowther and Cink 1992; Anderson 2006; Murgui 2011; Guerra Solana and Armas 2017; Howell and Clements 2019). This species was introduced to Cuba in the 19th Century (Garrido and García 1975) and now is the most common urban bird in the country (Garrido and Kirkconnell 2010).

At 1210 h on 14 June 2021, on the terrace of an urban residence in San Antonio de los Baños, Artemisa Province, Cuba (22.89347°N, 82.50978°W; 75 m asl), I observed a House Sparrow catching a juvenile Cuban Brown Anole (*Anolis sagrei*) (SVL ~20 mm) that was on the ground with-

out a readily accessible escape route (Fig. 1). The bird seized the lizard in its bill and flew to a nearby tree where it was consumed. At 0905 h four days later, in the same location, I observed another House Sparrow catch a small Cuban Brown Anole. As in the first observation, the bird flew to a nearby tree to swallow the lizard.

At 0950 h on 21 July 2021, on an unpaved street bordered by scrubby grass (Fig. 1) 100 m east of the above location, I observed a House Sparrow catch a subadult Cuban Brown Anole (SVL ~30 mm) and immediately fly to the roof of the nearest house, where it consumed the lizard. A few minutes later, the same bird approached within 30 cm of an adult male Cuban Brown Anole that was perched on a small stump. The lizard assumed a defensive posture and



Fig. 1. Urban locations in San Antonio de los Baños, Artemisa Province, Cuba, where House Sparrows (*Passer domesticus*) preyed on three Cuban Brown Anoles (*Anolis sagrei*) in a backyard (left) and along an unpaved street (right). The red ovals indicate where predation occurred. Photographs by the author.

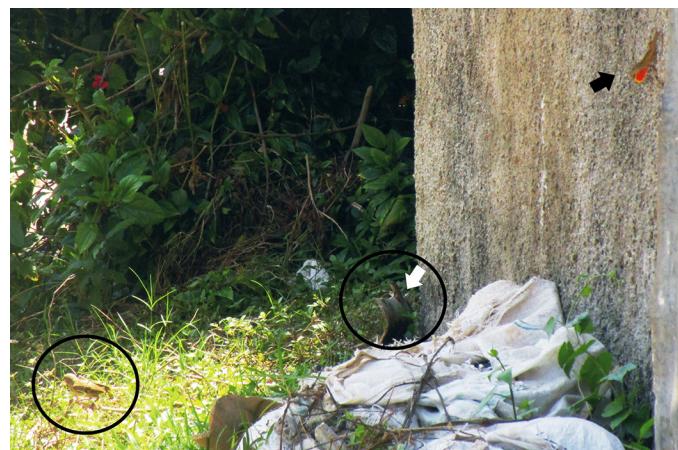


Fig. 2. Adult male Cuban Brown Anoles (*Anolis sagrei*) (arrows) responding to attempted predation by a House Sparrow (*Passer domesticus*) (lower left) in an urban area of San Antonio de los Baños, Artemisa Province, Cuba. Photograph by the author.

repeatedly displayed his dewlap without abandoning his position. Another adult male that was perched on a nearby wall also displayed his dewlap (Fig. 2). The bird desisted from an apparent predation attempt and abandoned the site.

In both successful predation events, the lizards were small (SVL \leq 30 mm) and both were cornered without an available escape route. In such scenarios, House Sparrows are not averse to preying on lizards (Table 1) and might be an important ecological factor affecting populations of urban lizards (Bello 2000).

Table 1. Lizards as prey of House Sparrows (*Passer domesticus*). All were in urban settings except that reported by Ayres (2021), but even that event occurred near a human dwelling. Not included are instances of predation on Common Wall Lizards (*Podarcis muralis*) by Italian Sparrows (*Passer italiae*) (Gallelli 1948; Moltoni 1954, 1962; Giustetti 1980; Truffi 1985; Mostini 1988) and on Maltese Wall Lizards (*Podarcis filfolensis*) by Spanish Sparrows (*Passer hispaniolensis*) (Fornasari and Zava 2001).

Prey	Notes	References
Cuban Green Anole (<i>Anolis porcatus</i>)	Adult male; San Antonio de los Baños, Cuba	Guerra Solana and Armas (2017)
Cuban Brown Anole (<i>Anolis sagrei</i>)	Adults and juveniles; five instances in two localities in Miami, Florida, USA	Howell and Clements (2019)
Cuban Brown Anole (<i>Anolis sagrei</i>)	Juveniles; three instances in San Antonio de los Baños, Cuba	This paper
Unknown anole (<i>Anolis</i> sp. [<i>porcatus?</i>])	Juvenile; La Lisa, La Habana, Cuba	Bello (2000)
White-throated Clawed Gecko (<i>Gonatodes albogularis</i>)	La Lisa, La Habana, Cuba	Bello (2000)
Mediterranean Gecko (<i>Hemidactylus turcicus</i>)	Juvenile (~5 cm); Chora, Astipalaia Island, Greece	Angelici (1993)
Bocage's Wall Lizard (<i>Podarcis bocagei</i>)	Dunes of Baluarte, Vigo (Pontevedra), Spain	Ayres (2021)

Literature Cited

- Alonso, J.C. 1985. La alimentación del Gorrión Común (*Passer domesticus*) en áreas de cultivo de regadío. *Ardeola* 32: 405–408.
- Anderson, T.R. 2006. *Biology of the Ubiquitous House Sparrow: From Genes to Populations*. Oxford University Press, New York, New York, USA.
- Ayres, C. 2021. Predation on a Bocage's Wall Lizard (*Podarcis bocagei*) by a House Sparrow (*Passer domesticus*). *Reptiles & Amphibians* 28: 420. <https://doi.org/10.17161/randa.v28i3.15731>.
- Angelici, F. M. 1993. House Sparrow (*Passer domesticus domesticus*) as predator of Turkish gecko (*Hemidactylus turcicus*). *Ökologie der Vögel. Verhalten, Konstitution, Umwelt* 15: 119–120.
- Bello, R.E. 2000. *Anolis* sp. and *Gonatodes albogularis* (Yellowheaded Gecko). Predation. *Herpetological Review*, 31: 239–240.
- Fornasari, L. and B. Zava. 2001. Precazione di *Podarcis filfolensis laurentiuimulleri* da parte di *Paser hispaniolensis maltae* sull'isola di Linosa, pp. 285–286. In: F. Barbieri, F. Bernini, and M. Fasola (eds.), Atti 3. Congresso Nazionale Societas Herpetologica Italica (Pavia, 14–16 Settembre 2000). *Pianura - Scienze e Storia dell'Ambiente Padano* 13: 3–361.
- Gallelli, G. 1948. Anormale zoofagia in un passero (*P. italiae*) in Milano. *Rivista Italiana di Ornitologia* 18: 194–196.
- Garrido, O.H. and F. García. 1975. *Catálogo de las Aves de Cuba*. Academia de Ciencias de Cuba, La Habana, Cuba.
- Garrido, O.H. and A. Kirkconnell. 2010. *Aves de Cuba*. Comstock Publishing Associates, Cornell University Press, Ithaca, New York, USA.
- Giustetti, G. 1980. Sul nutrimento dei passerini. *Rivista Italiana di Ornitologia* 50: 169–170.
- Guerra Solana, J.L. and L.F. de Armas. 2017. Depredación de *Anolis porcatus* (Squamata: Dactyloidae) por *Passer domesticus* (Aves: Passeriformes) en Cuba. *Novitates Caribaea* 11: 103–105. <https://doi.org/10.33800/nc.v0i11.24>.
- Howell, H.J. and S.L. Clements. 2019. Consumption of vertebrate prey by the House Sparrow (*Passer domesticus*): An example of evolutionary responses to interspecific interactions within novel communities. *The Wilson Journal of Ornithology* 131: 406–410. <https://doi.org/10.1676/18-118>.
- Lowther, P.E. and C.L. Cink. 1992. House Sparrow (*Passer domesticus*). In: A. Poole, P. Stettenheim, and F. Gill, (eds.), *The Birds of North America Online*. Philadelphia Academy of Sciences, Philadelphia, Pennsylvania, USA. <<http://birdsna.org>>

- bna.birds.cornell.edu/bna/species/012>. <https://doi.org/10.2173/bna.12>.
- Moltoni, E. 1954. Ulteriore notizia di passero (*Passer italiae*) divoratore di lucertole. *Rivista Italiana di Ornitologia* 24: 217.
- Moltoni, E. 1962. Ancora sull'abitudine dei passeri di nutrirsi di luccertole. *Rivista Italiana di Ornitologia* 32: 58.
- Mostini, L. 1988. Predazione su *Podarcis muralis* (Reptilia). *Atti della Società Italiana di Scienze Naturali e del Museo Civico di Storia Naturale in Milano* 129: 367–368.
- Murgui, E. 2011. Gorrión común – *Passer domesticus* (Linnaeus, 1758). In: A. Salvador and M.B. Morales (eds.), *Enciclopedia Virtual de los Vertebrados Españoles*. Museo Nacional de Ciencias Naturales, Madrid, Spain. <<http://www.vertebradosibericos.org/aves/pasdom.html>>.
- Truffi, G. 1985. Nuove segnalazioni di passera d'Italia *Passer domesticus italiae* che si nutre di lucertole. *Rivista Italiana di Ornitologia* 55: 98.