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# INVENTORY OF EUGLOSSINA BEES IN AN AGROFORESTRY SYSTEM WITH *Bertholletia excelsa* Bonpl. IN TOMÉ-ASSU (PA), BRAZIL.

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In Para State, Eastern Brazilian Amazon, surveys of Euglossina subtribe are scarce. In order to increase the knowledge of this group, the Euglossina of the Sasahara Farm (S02 33 39.3 W048 21 20.4 ), at Tomé-Assu (PA), was monitored monthly from August/2010 to July/2011, to determine local richness of species and seasonal variation. Five scent bait traps were used (eugenol, methyl cinnamate, eucalyptol, methyl salicylate and vanillin) in five plots (mono and polyculture): 1) Black pepper, 2) Assai/cocoa, 3) Brazil nut/cocoa, 4) Mahogany/cocoa and 5) Remnant of primary forest. The scent traps remained 24h in each plot. We captured 1.295 males, belonging to four genera of Euglossina (29 species) and 16 specimens of *Trigona* sp. (Meliponina). The most abundant genus was *Eulaema* (900 specimens, five species, 69.5% of the total bees), followed by *Euglossa*(327/18/25.3%), *Exaerete* (32/3/2.5%) and *Eufriesea* (21/2/1.6%). The most abundant species were: *El. meriana* Olivier, 1789 (422/33%), *El. cingulata* Fabricius, 1804 (265/20.7%), *El. marcii* Nemésio, 2009 (110/8.6%), *Eg. imperialis* Cockerell, 1922 (77/6.0%) and *El. nigrita* Lepelletier, 1841 (40/3.1%), which together represented 71.4% of all inventoried bees. Eucalyptol was the most efficient scent, capturing 426 specimens (33%) and 24 species. The rainy season (Nov/2010 to Apr/2011) was the most representative season (737 specimens and 29 species), correspond to 57% of the samples, and worth noting that five species were exclusive collected in this season: *Ef. surinamensis* Linnaeus, 1758 (6 specimens and 0.8%), followed by *Ex. smaragdina* Guérin- Méneville, 1844 (3/04%), *Eg. hemichlora* Cockerell, 1917 (3/0.4%), *Eg. parvula* Dressler, 1982 (1/0.1%) and *Eg. laevicincta* Dressler, 1982 (1/0.1%). In the wet season (Aug/2010 to Oct/2010 and May/2011 to Jul/2011), only one species was unique, *Eg. augaspis* Dressler, 1982 (32 specimens and 5.7%). Species that pollinate the Brazil nut tree were also captured (*El. meriana*, *El. cingulata*, *El. nigrita*).

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