





Previous Studies in the Region

Roldán – Ramos (1984) Roubik et al. (1990) Villanueva - Gutiérrez (1994) Villanueva - Gutiérrez (2002) Villanueva – Gutiérrez and Roubik (in press)





























indpoi	
Megachile zaptlana	48%
Megachile quadridentata	18
Megachile pseudocentron	16
<i>Megachile</i> sp.	11
Anthodioctes sp.	7

















Conclusions

-The total number of species found in the nest pollen sample probably represent around 4 % of the total Angiospermae present in the study area.

- Only 50 pollen species were identified from the pollen samples, which belong to 18 different plant families.

- The most important pollen sources were *Metopium brownei*, *Pouteria* sp., Leguminosae 1, *Dalbergia* sp, *Centrosema* sp, *Chamaesyce* sp, *Laethia thamnia*, *Euphorbia* sp.

 Among the five species of megachilids there was a high reliance on only a few pollen sources. The five most abundant could comprise 100% of the pollen diet of the brood in the trap nest blocks.

- Families that contributed with largest number of pollen species were Leguminoseae, Malpighiaceae, Sapotaceae, Myrtaceae, Euphorbiaceae and Sapotaceae.

- It appears that more extensive sampling will reveal more pollen species utilized by megachilids in such tropical forest.

- During the wet period we found almost no Megachilidae nesting in the wooden raps.

Most Abundant Pollen Species

Metopium brownei - Anacardiaceae (tree) Pouteria sp. – Sapotaceae (tree) Leguminosae 1 - Leguminosae Dalbergia sp. - Leguminosae (tree or shrub) Centrosema sp. - Leguminosae (shrub) Chamaesyce sp. - Euphorbiaceae (herb) Laetia thamnia - Flacourtiaceae (tree) Euphorbia sp. 2 - Euphorbiaceae (tree) Bursera simaruba - Burceraceae (tree) Coccoloba sp. - Polygonaceae (tree)