

throughout the range of the species may be synchronized in their flowering is impossible to tell presently with our current meager data.

Just how long the entire life cycle may be cannot be stated conclusively, but we have incomplete data that it may be five years. This is deduced from the following facts. Huber and P. Berry (Missouri Botanical Garden) observed the Rancho Grande plants 30 August 1975. Most of the plants were vegetative, but a few old flowering plants were seen and a voucher was collected [*Berry 1161* (MO)]. This stage presumably represented one somewhat later than that observed in 1979. Apparently, in 1975 a few plants also flowered later than the majority of the plants in the population, and the vegetative plants probably represented vigorous young plants, at least several months older than the seedlings observed in 1979. Further observations by Huber in October 1975, January 1976 (Fig. 1), and October 1976, showed only vegetative plants. No further observations were made until flowering took place in July 1978, but it is assumed that the entire population remained vegetative during the intervening time.

Because *Neurolepis pittieri* in Rancho Grande is in an undisturbed, well-protected environment, is easily accessible, and apparently has a relatively short life cycle (for bamboos), it is hoped that complete observations of its life history and its interactions with other organisms can be made in the future. This could be a good test case for the predator satiation hypothesis proposed by Janzen (1976).

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## A NEW SPECIES OF *ALIBERTIA* (RUBIACEAE) FROM VENEZUELA

During the years 1977 and 1978, the Missouri Botanical Garden has collaborated with the Instituto Botánico of the Ministerio del Ambiente y de los Recursos Naturales Renovables of Venezuela in a joint program of botanical exploration to areas endangered by dam projects, drainage and river canalization plans, deforestation and agricultural activities, and other undertakings, all leading to drastic changes and destruction of the natural environment.

In a suite of Rubiaceae obtained from the Estado Apure of southwestern





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