

**MONOGRAPHIC STUDIES IN CASSIA (LEGUMINOSAE-
CAESALPINIOIDEAE). II.
A TAXIMETRIC STUDY OF SECTION ALPOOCOCTA¹**

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INTRODUCTION

The present study has been facilitated by the intensification of field-work in the last two decades in the Amazon Basin, the Cerrado, and the Caatinga Highlands, and most recently in the eastern portion of the Planalto do Brasil. It is in these areas that *Cassia* sect. *Alpoococita* is represented, principally by trees, varying in stature, mostly occurring in forests at low elevation. As was true with *Cassia* sect. *Neurocytis* (Irwin, 1984), section *Alpoococita* has never been accorded close study. However, the availability of greater numbers of specimens, some well prepared and carefully documented, together with the taxonomic complexities which have become apparent within and among some of the included taxa, support the desirability of a critical review at this time.

Two taxa have been especially difficult of interpretation, principally because of the independent variation of characters without relation to geography. This was compounded in one instance by a number of widely disjunct populations, in the other by the sporadic occurrence of marked variants over an extensive continuous range. Under ordinary taxonomic procedure, decisions regarding relationships and status seemed to require more arbitrariness than is sound. In an effort to improve the bases for taxonomic judgment, a new computer classification method, developed in the Department of Quantitative Taxonomy at the New York Botanical Garden, was used.

BIOLOGICAL HISTORY

A brief history of *Cassia* together with a tabular representation of the widely followed infrageneric organization of the genus by Bentham (1874) has been given in an earlier paper (Irwin, 1984). Section *Alpoococita* was proposed by Bentham (1870) who based the name on *C. speciosa* Aubl. Since the time of Aublet's proposition of that species (1723) there has been a gradual accretion of specific and varietal names, with the only major readjustments having been undertaken by Bentham (1870, 1874). At the initiation of this study some 14 legitimately published specific and varietal names applied to materials properly referred to this section. In the present treatment 15 taxa are recognized: 13 species, two of which comprise two varieties each.

Bentham (1870) included section *Alpoococita* in *Cassia* subg. *Labiocarpus* Vog. on the basis of the 10-fertile anthers and the flat, elastically dehiscent fruit. These characters are common throughout the subgenus; the fruit behavior is unique to it.

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Howard Samuel Irwin

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