

MONOGRAPHIC STUDIES IN CASSIA (LEGUMINOSAE-
CAESALPINOIDEAE). II.
A TAXIMETRIC STUDY OF SECTION APOUCOUTA¹

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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 Guianas, and the Guayana Highlands, and most recently in the eastern portion of the Planalto do Brasil. It is in these areas that *Cassia* sect. *Apoecassia* is represented, principally by trees, varying in stature, mostly occurring in forests at low elevation. As was true with *Cassia* sect. *Xerocaulis* (Irwin, 1964), section *Apoecassia* 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 complicated in one instance by a number of widely dispersed 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.

TAXONOMIC HISTORY

A brief history of *Cassia* together with a tabular representation of the widely followed infrageneric organization of the genus by Benthams (1871) has been given in an earlier paper (Irwin, 1964). Section *Apoecassia* was proposed by Benthams (1870) who based the name on *C. apoecassia* Aubl. Since the time of Aublet's proposition of that species (1775) there has been a gradual accretion of specific and varietal names, with the only major readjustments having been undertaken by Benthams (1870, 1871). 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.

Benthams (1870) included section *Apoecassia* in *Cassia* subg. *Lasiobegon* 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.

¹ Publication supported by National Science Foundation Grant GN-508.

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Monographic Studies In Cassia Xerocalyx

Howard Samuel Irwin



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