

Kanokon Bunpha 2009: Fagaceae in Southeastern Thailand.

Master of Science (Botany), Major Field: Botany, Department of Botany.

Thesis Advisor: Associate Professor Sumon Masuthon, M.S. 128 pages.

The taxa of Fagaceae in Southeastern Thailand were studied from October 2003 to March 2009 by searching literature, surveying in Southeastern Thailand. Morphological characters, distribution and taxonomic characters were investigated, described, and supported by photos and drawings. A key to genera and species based on the bark, leaf, flower, acorn and nut is included and comparing herbarium specimens.

Three genera and 19 species of Fagaceae were identified, i.e., *Castanopsis acuminatissima* (Blume) A. DC., *C. pierrei* Hance, *C. piriformis* Hickel & A. Camus, *Lithocarpus cantleyanus* (King ex Hook. f.) Rehder, *L. cf. dealbatus* (Hook. f. & Thomson) Rehder, *L. elegans* (Blume) Hatus. ex Soepadmo, *L. eucalyptifolius* (Hickel & A. Camus) A. Camus, *L. harmandii* (Hickel & A. Camus) A. Camus, *L. thomsonii* (Miq.) Rehder, *L. wallichianus* (Lindl. ex Hance) Rehder, *L. wrayi* (King) A. Camus, *Quercus auricoma* A. Camus, *Q. cf. lineata* Blume, *Q. oidocarpus* Korth., *Q. poilanei* Hickel & A. Camus, *Q. quangtriensis* Hickel & A. Camus, *Q. rex* Hemsl., *Q. cf. saravanensis* A. Camus and *Q. thorelii* Hickel & A. Camus.

One species, *Q. thorelii* Hickel & A. Camus, is a new record for Thailand. Eight species are new records for Southeastern Thailand, namely, *Lithocarpus cantleyanus* (King ex Hook. f.) Rehder, *L. cf. dealbatus* (Hook. f. & Thomson) Rehder, *Quercus auricoma* A. Camus, *Q. cf. lineata* Blume, *Q. oidocarpus* Korth., *Q. poilanei* Hickel & A. Camus, *Q. rex* Hemsl. and *Q. thorelii* Hickel & A. Camus. Three species, i.e., *Q. poilanei* Hickel & A. Camus, *Q. rex* Hemsl. and *Q. thorelii* Hickel & A. Camus are more likely to be endangered than the others because they are less common in both the Southeast and throughout Thailand.

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