

Charin Kasetluksamee 2014: Diversity of Orchids at Khok Nok Kraba Area in Phu Luang Wildlife Sanctuary, Loei Province. Master of Science (Botany), Major Field: Botany, Department of Botany. Thesis Advisor: Assistant Professor Chatchai Ngernsaengsaruy, Ph.D. 401 pages.

Study on diversity of orchids at Khok Nok Kraba Area in Phu Luang Wildlife Sanctuary, Loei Province was conducted from April 2008 to March 2009. Field surveys and specimen collections were made along 3 routes representing 3 vegetation types at 1,470-1,500 m.s.l. of lower montane scrub, lower montane rain forest, and lower montane pine-oak forest. One hundred and three species and 2 varieties with 38 genera and 3 subfamilies were identified. Subfamily Epidendroideae (32 genera 94 species and 2 varieties), Orchidoideae (5 genera and 7 species), and Cyripedioideae (1 genus and 2 species) are found, respectively. The genus *Bulbophyllum* contains the highest number of species (25), followed by *Dendrobium* (15), and *Eria* (13). Epiphytic orchid has the highest number of species (52), followed by terrestrial orchid (21 species and 2 varieties), both epiphytic orchid and lithophytic orchid (17), and lithophytic orchid (14). Five species are threatened as endangered plant namely *Bulbophyllum echinulus*, *Dendrobium proteranthum*, *Gastrochilus rutilans*, *Paphiopedilum sukhakulii*, and *P. villosum*. Three species are vulnerable plant namely *Armadorum siamense*, *Cymbidium devonianum*, and *Cym. insigne*. Thirteen species and 1 variety are rare plant namely *Bulbophyllum bittnerianum*, *B. dhaninivatii*, *B. kanburiense*, *B. luanii*, *B. nipondhii*, *B. striatum*, *B. subtenellum*, *Calanthe cardioglossa*, *Dendrobium chrysanthum*, *D. devonianum*, *Porpax lanii*, *Sunipia minor*, and *Thunia alba* var. *bracteata*. Six species are endemic to Thailand namely *Bulbophyllum dhaninivatii*, *B. echinulus*, *B. subtenellum*, *Dendrobium proteranthum*, *Paphiopedilum sukhakulii*, and *Sunipia minor*.

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Thesis Advisor's signature