

C627277 : MAJOR ZOOLOGY

KEY WORD: SPECIES-AREA CURVE / DECIDUOUS / ECOSYSTEM / GROWTH FORM / SAMPLING PLOT

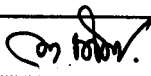
KANOK LERTPANICH : OPTIMAL SAMPLING PLOT OF DECIDUOUS FOREST ECOSYSTEMS IN HUAI KHA KHANG WILDLIFE SANCTUARY. THESIS ADVISOR: ASSO.PROF.JIRAGORN GAJASENI, Ph.D. 88pp. ISBN 974-635-420-5.

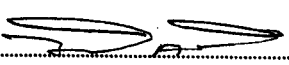
Huai Kha Khang Wildlife Sanctuary, a natural world heritage site in Thailand, is an important area of deciduous forest ecosystems with high biodiversity. It should be studied for basic ecological information. These required information might be beneficial for proper management and conservation. One of the most significant basic problem in ecosystem study is inability to decide the appropriate sampling plot which represents the ecosystem under investigation. This study determines the optimal sampling plots for mixed deciduous and dry dipterocarp forest ecosystems by two methods. The first method uses a relationship between number of species which is the ecosystem structure and area to construct species-area curve. Results by this method show that the optimal sampling plot are 300.0 m^2 and 64.7 m^2 for mixed deciduous forest and dry dipterocarp forest ecosystems, respectively. The second method is cluster analysis, using species similarity and frequency of each species. Results by this method show that the optimal sampling plot are 256.0 m^2 and 32.0 m^2 for mixed deciduous forest and dry dipterocarp forest ecosystems, respectively. There is an analysis on structural characteristic classified by growth form. The results shows that structural characteristic are different in accordance with ecosystem disturbance.

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