

Alongkot Pakat 2009: Signature Characteristic of Eucalypts Cultivation Area in Northeast Thailand. Master of Science (Forest Resource Management), Major Field: Forest Resource Management, Department of Forest Management. Thesis Advisor: Mr.Weeraphart Khunrattanasiri, Dr. rer.nat. 64 pages.

This study aimed to investigate the signature characteristics of eucalyptus for the classification of eucalypts cultivation area in Nakhon Ratchasima province by using SPOT-5 imagery. The range of temperature and air humidity was also investigated in eucalypts cultivation area.

The result showed that there are 0.05 million rai of eucalypts area in the study area or 1.93 percent of the whole country. The total accuracy which explains the reliability of the classification process was 75 percent. Eucalypts cultivation areas appeared in the area where the temperature between 30.9 to 31 Celsius and air humidity between 61.42 to 62.23 percent based on the computation of the meteorological data at the acquiring date of SPOT-5.

Digital numbers of eucalypts cultivation areas in band 1 of SPOT-5 imagery were between 118 to 156. Band 2 3 and 4 was found between 72 to 115 86 to 103 and 108 to 164 respectively.

Student's signature

Thesis Advisor's signature

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