

**SPATIAL AND TEMPORAL VARIATIONS OF  
AGRICULTURE IN LETPADAN TOWNSHIP,  
BAGO REGION (WEST)**

**PhD DISSERTATION**

**TIN TIN NWE**

**DEPARTMENT OF GEOGRAPHY  
UNIVERSITY OF YANGON  
MYANMAR**

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## ABSTRACT

Letpadan Township is located in Thayawady District, Bago Region (West), the Republic of the Union of Myanmar. Agriculture is still the chief economy in this township. Most of the people living in the township are dependent on agriculture sector. The main cultivated crops are paddy, pulses and beans. It has various agriculture land use types suitable for these crops. For local self-sufficiency, oil-seed crops are also grown. The crops grown vary from place to place within this township depending on differing relief, soils, and availability of water. Growing period and yield per unit area also differ. Single or monocrop is the most dominant for the township as a whole. Two-crop combination, monsoon paddy and black gram is dominant. Black gram is grown as second ranking crops in most village tracts and cropping pattern differs among the village tracts. Some grows only one time in a year while others grow two times on the same plot, depending on reliefs and availability of water. Cropping intensity has been increasing steadily and it was 157 percent in 2009-10. Two-thirds of the village tracts are very high in the degree of crop diversification. The crop land occupancy of monsoon paddy is high with dominant monoculture along the eastern bank of Ayeyarwady. Black gram is grown as mono-crop in the village tracks of the eastern part. The availability of irrigation water in the dry season is the chief cause of variation in the kinds of crop grown, yield and production and cropping intensity.

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