

Thesis Title	Freight Generation Forecasting Models for Thailand
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#### Abstract

The objective of this study was to construct the Thailand's freight generation forecasting model. Two techniques, the input-output (I/O) analysis and the multiple regression analysis, were selected to apply to the model. The study areas were divided into three levels, the nation, the region and the province. The first data set used for the I/O analysis comprised national I/O table, regional value added and unit prices, while the second data set used for the multiple regression analysis comprised freight volumes transported into and out of each study area and some socio-economic data. The forecast freights by each technique were compared with survey freight data collected by Ministry of Transport and Communication (MOTC).

The result was found that the predicted freight volumes by the multiple regression analysis technique were generally more accurate than the predicted freight volumes by the I/O technique for all levels. At the regional level, however, the I/O technique could estimate more details in categorizing the freight volume while the other technique could not. This knowledge could be added to a base O-D freight movement for further developing a freight distribution model.

Keywords : Freight Generation / Forecasting Model / Freight / Input-Output Model /  
Multiple Regression Model