

# **APPLICATION OF GEOGRAPHIC INFORMATION SYSTEM (GIS) BUILDING THE LAND UNIT TO SERVE THE ASSESSMENT OF AGRICULTURAL POTENTIAL FOR AGRICULTURAL LAND IN DONG TRIEU TOWN, QUANG NINH PROVINCE**

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## **Summary**

Dong Trieu town has many potentials and advantages to develop agricultural production. Total natural area is 39,658.35 hectares, of which agricultural land is 31,098.81 hectares (accounting for 78.42% of total natural area). To develop a map of land units for potential assessment of agricultural land, the study has investigated 27,362.62 ha with 6 indicators (land type, mechanical composition, soil layer, soil relative, irrigation, drainage) GIS application to build 6 single maps. Overlaying 6 single maps using ArcView 10.3 software has identified 45 units of land unit maps, combined with a description of the land units that will serve as the basis for the evaluation agricultural land potential in Dong Trieu town, Quang Ninh province.

**Keywords:** *Geographic information system (GIS), land unit, land evaluation, Dong Trieu.*