

APPLICATION OF GIS IN PLANT PROTECTION MANAGEMENT FOR RICE IN VINH LONG PROVINCE

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Summary

Plant protection plays an important role in the agricultural activities of Vietnamese provinces. It is therefore important to have a data management system that allows managers to draw detailed maps of rice production, pests and diseases at the provincial level. The paper aims to introduce a data management system called the Plant Protection Database Management System (PPDMS) for Vinh Long province. This system is based on the management of online databases, POSTGIS and Geoserver technologies. The system allows district users to update and aggregate data on rice and plant production for municipalities. Specifically, data entered from districts are automatically generated for online maps of rice cultivation and pest infection using WebGIS technologies. The system is currently applied in Vinh Long province, which not only provides decision-making information to provincial managers, but also provides farmers with maps of agricultural activities.

Keywords: *GIS in plant protection, PPDMS Vinh Long, rice production management, plant protection data management, WebGIS in plant protection.*