Web GIS Based Information Visualization for Pest Infection : A Case Study of Rice Plantation

Adidah Lajis, Haidawati Mohd Nasir and **Norfarahin Ismail**

Abstract: Rice is the Malaysia national staple food. Rice industry in Malaysia is cultivated in a small scale land by more than 300,000 traditional farmers. A study has shown that estimated tons of grains are lost yearly to insects. Thus, careful pest management is significant. In order to ensure the information is delivered to all farmers, it is proposed to visualize the information via the web geographical information system. The map view is important to help distinguish one place to another and then to make an emergence action to prevent the separation of diseases to the nearest paddy plant. The web geographical information system for pest infection area is produced by using ArcGIS online. The facilities provided has made the development success and deployable, besides easier the maintenance work in updating the information.

Keywords: Staple food, pest infection, geographical information system, emergence action, CGT