Analisa Hama Dan Penyakit Pada Tanaman Kubis Bunga (Brassica Oleracea Var. Botritys L) Dengan Memanfaatkan Metode Dempster – Shafer

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ABSTRACT

Based on data from the Central Bureau of Statistics for cauliflower production from 2014 to 2018, the production of cauliflower increased from 136.514 to 152.122. So it can be concluded that the production of cauliflower has increased by 11%. With this increase, it is necessary to take action to help maintain the quality of cauliflower production, one of them is by handling pests and diseases as early as possible. To do this, it requires sufficient knowledge about pests and diseases in cauliflower which in fact many farmers do not understand about the pests and diseases of cauliflower, so it is difficult to diagnose pests and diseases that attack their crops. From these problems, it is necessary to have an expert system for diagnosing pests and diseases in cauliflower which helps farmers to diagnose pests and diseases that attack their crops so that they can minimize the occurrence of crop failure. The method used in this research is the Dempster Shafer. The Dempster Shafer method is used to analyze the symptoms that arise so that a conclusion is made in the form of the type of pest or disease that is attacking. For system development, researchers use the Waterfall method. The output from the expert system for diagnosing pests and diseases is the type of disease and how to handle these pests and diseases so that it can be directly applied by cauliflower farmers in Indonesia

Keyword : *cauliflower disease, expert system, dempster – shafer*