SISTEM PAKAR DIAGNOSA PENYAKIT TANAMAN OKRA MENGGUNAKAN METODE *CERTAINTY FACTOR*

(*EXPERT SYSTEM FOR DIAGNOSING OKRA PLANT DISEASES USING CERTAINTY FACTOR METHODS*).

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ABSTRACT

An expert system is a system that tries to interpret plant expert knowledge to a computer, so that the computer can solve problems as is usually done by an expert. Expert systems are well designed in order to solve several problems according to the knowledge of an expert. In the title of this final project, is an expert system on the diagnosis of okra plant diseases based on a website using the certainty factor method. Disease and pest data are sourced from several characteristics and pests that attack okra plants in the planted area. The problems that arise include the difficulty in determining the disease due to the scarcity of okra plant experts. In this study, the characteristics of the data on plants attacked by diseases and pests, and the data on the names of diseases and pests are needed to fulfill the calculation requirements by using the certainty factor method. The factor certainty method is the simplest method used to diagnose okra plant diseases. The calculation of the certainty factor method can be carried out by okra plant farmers by selecting the symptoms of the disease that attacks the okra plant according to the conditions of the planting area, after which the calculation of the results is carried out to see how many% of the okra plants are attacked by diseases or pests and how to overcome them.

Key words : *Okra, Expert System, Website*