

**DIAGNOSIS OF COW HEAT STRESS DISEASE
ON THE ACTIVITIES OF THE COW'S LIVESTOCK CONTEST
USING FORWARD CHAINING METHOD
(Case Study of the Department of Animal Husbandry and Fisheries of Magelang Regency)**

ABSTRACT

The lack of knowledge about diseases and the first treatment for animal diseases makes the animals not receive first aid properly and end in death. Even though there are some diseases in cattle that are not dangerous, they should not be taken lightly. It may cause various complications. In cattle contest activities which are often held in various places in Indonesia, there are many contest participants who are still unfamiliar with detecting diseases early. It causes the animals' death while the activity is still running. Therefore, to help understand the illness and find out what first aid should be done when a pet suffers from an illness, a system is needed that can help diagnose what type of disease it is suffering from, as well as the necessary help. Computer-based systems can be used to help solve problems in terms of diagnosing and assisting each farmer in determining treatment options for diseases. The subject of this research is a system for diagnosing cow heat stress disease. The system development step begins with system analysis, system design, among others, by building a knowledge base, creating rule tables and data flow design, Entity Relational Diagrams makes the implementation and testing which can then help and facilitate farmers who want to know the type of heat stress disease experienced. cattle based on existing symptoms.

Keywords: Disease, Heat Stress, Forward Chaining

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ABSTRACT

The lack of knowledge about diseases and the first treatment for animal diseases makes the animals not receive first aid properly and may also end in death. Even though there are some diseases in cattle that are not dangerous, they should not be taken lightly, given the various complications that can be caused. In cattle contest activities which are often held in various places in Indonesia, there are many contest participants who are still unfamiliar with detecting diseases early on. Until not infrequently there is death while the activity is still running. Therefore, to help understand the illness and find out what first aid should be done when a pet suffers from an illness, a system is needed that can help diagnose what type of disease it is suffering from, as well as the necessary help. Computer-based systems can be used to help solve problems in terms of diagnosing and assisting each farmer in determining treatment options for diseases. The subject of this research is a system for diagnosing cow heat stress disease. The system development step begins with system analysis, system design, among others, by building a knowledge base, creating rule tables and data flow design, Entity Relational Diagrams, making implementation and testing which can then help and facilitate farmers who want to know the type of heat stress disease experienced. cattle based on existing symptoms.

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