

**POTENTIAL PESTS AND DISEASES OF WHEAT
INTRODUCED TO PAGAR ALAM CITY, SOUTH SUMATRA**

A THESIS

Submitted as Partial Fulfillment of the Requirements for the Degree
of Magister Science (M.Si)
In Department of Crop Science
Post Graduate Program
Sriwijaya University

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**POST GRADUATE PROGRAM
SRIWIJAYA UNIVERSITY
SEPTEMBER, 2010**

APPROVAL PAGE

Research Title : Potential Pests and Diseases of Wheat Introduced to
Pagar Alam City, South Sumatra

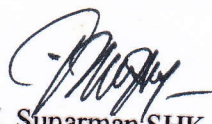
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
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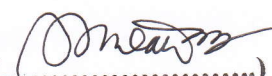
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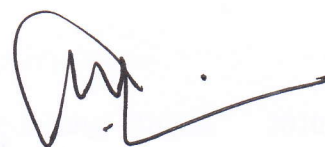
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STATEMENT PAGE

I am who sign below:

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Make the real statement with :

1. All data, information, interpretation and statement presented in this thesis, except those being mentioned the source are my own result of observation, research and thoughts with the direction of supervisor.
2. Thesis written was original and never been proposed or used as requirement for academic degree at Sriwijaya University or other colleges.

This statement is made with truth and if the future, there is trouble found in above statement, I agree to receive academic sanctions such as cancellation of academic degree I acquired through the submission of this thesis.



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SUMMARY

EKA YULISTIN. POTENTIAL PESTS AND DISEASES OF WHEAT INTRODUCED TO PAGAR ALAM CITY, SOUTH SUMATRA (SUPERVISED BY H. SUPARMAN SHK AND YULIA PUJIASTUTI).

Wheat is one of alternative food commodities to support food security and food diversification program in Indonesia. Wheat flour had been widely known as "terigu" in the country. Market demand of wheat flour in Indonesia is increasing due to the increasing its per capita consumption. Vice ministers of Agriculture, Bayu Krisnamurthi, explained that the world's grain are expected to fall 0.33 percent from 1727 billion tons in the period 2008-2009 to 1721 billion tons in the period 2009-2010. For Indonesia, flour of wheat has been assumed upon which second main after rice.

The objectives of the research were to study and analyze the development of pests and diseases of wheat introduced into new place in South Sumatra which environmentally suitable for the growth of the crop.

The research had been conducted in Burung Dinang Village, District of Dempo Utara, City of Pagar Alam, South Sumatra from the early of September 2009 to the end of April 2010. The place altitude is 1200 meter above sea level. Pests found were: a) Leafhopper *Bothrogonia japonica* (Homoptera, Cicadellidae), b) Oat Bird Cherry Aphid *Rhopalosiphum padi* (Homoptera, Aphidoidea), c) Grasshopper *Leptysma marginicollis* (Orthoptera, Acrididae), d) Bug *Leptocoris acuta* (Hemiptera, Alydidae), e) Scarab beetles *Diploptaxis tristis* (Coleoptera, Scarabaeidae). Diseases found were *Tilletia* sp., *Drechslera sorokiana*, *Drechslera oryzae*, *Helminthosporium* sp., *Alternaria* sp., *Curvularia* sp., *Fusarium semitectum*, *Fusarium solani*, *Nigrospora* sp., and *Cladosporium* sp.