

**TINGKAT SERANGAN PENYAKIT KARAT DAUN PADA  
TANAMAN JAGUNG (*Zea mays* L.) DI KOTA PARIAMAN**

**SKRIPSI**

**Oleh:**

**Milenia Ramadhani  
1710253018**



**PEMBIMBING**

- 1. Dr. Ir. Eri Sulyanti, M.Sc**
- 2. Ir. Yenny Liswarni, MP**

**FAKULTAS PERTANIAN  
UNIVERSITAS ANDALAS  
PADANG**

**2023**

# TINGKAT SERANGAN PENYAKIT KARAT DAUN PADA TANAMAN JAGUNG (*Zea mays* L.) DI KOTA PARIAMAN

## ABSTRAK

Keparahan penyakit sangat mempengaruhi kehilangan hasil, termasuk penyakit karat pada tanaman jagung. Penyakit karat daun pada tanaman jagung merupakan penyakit utama yang disebabkan oleh jamur *Puccinia* sp. Tujuan penelitian ini untuk mengetahui tingkat serangan penyakit karat daun jagung pada sentra tanaman jagung di Kota Pariaman. Penelitian ini telah dilaksanakan dari bulan Januari sampai Maret 2023 di Kota Pariaman yakni di Desa Sikapak Timur, Tungkal Selatan, Marunggi, Pungguang Ladiang, Koto Marapak, Kampung Baru Padusunan, Ujuang Batuang, Cimparuah. Identifikasi patogen dilakukan di Laboratorium Fitopatologi, Departemen Proteksi Tanaman, Fakultas Pertanian, Universitas Andalas, Padang. Penelitian ini dilakukan dengan metode deskriptif dan penentuan tanaman sampel ditentukan dengan metode *Purposive Sampling* dengan teknik diagonal. Parameter pengamatan pada penelitian ini meliputi kondisi pertanaman jagung, gejala penyakit di lapangan, identifikasi patogen di Laboratorium, kejadian penyakit dan keparahan penyakit. Hasil penelitian menunjukkan kejadian penyakit pada setiap lahan yang telah diamati mencapai 100%. Sedangkan keparahan penyakit karat daun jagung di Kota Pariaman mengalami peningkatan di setiap pengamatan. Keparahannya penyakit karat daun tanaman jagung tertinggi terdapat pada Desa Koto Marapak dan Desa Pungguang Ladiang yaitu sebesar 42,77% dan 40,59%, sedangkan keparahan penyakit karat daun tanaman jagung terendah terdapat pada Desa Tungkal Selatan dan Desa Cimparuah yaitu sebesar 7,18% dan 10,21%.

Kata Kunci : Intensitas Serangan, Jagung (*Zea mays* L), Karat daun jagung, *Puccinia* sp.

# **ATTACK RATE OF LEAF RUST DISEASE IN CORN (*Zea mays* L.) PLANTS IN PARIAMAN CITY**

## **ABSTRACT**

Disease severity greatly affects yield loss, including rust disease in corn plants. Leaf rust disease in corn plants is a major disease caused by the fungus *Puccinia* sp. The purpose of this study was to determine the level of attack of corn leaf rust disease in corn crop centers in Pariaman City. This research was conducted from January to March 2023 in Pariaman City, namely in the villages of Sikapak Timur, Tungkai Selatan, Marunggi, Pungguang Ladiang, Koto Marapak, Kampung Baru Padusunan, Ujuang Batuang, Cimparuah. Pathogen identification was conducted at the Phytopathology Laboratory, Department of Plant Protection, Faculty of Agriculture, Universitas Andalas, Padang. This research was conducted with descriptive method and the determination of sample plants was determined by purposive sampling method with diagonal technique. Observation parameters in this study include the condition of corn plants, disease symptoms in the field, identification of pathogens in the laboratory, disease incidence and disease severity. The results showed that the incidence of disease in each field that had been observed reached 100%. While the severity of corn leaf rust disease in Pariaman City has increased in each observation. The highest severity of corn leaf rust disease was found in Koto Marapak Village and Pungguang Ladiang Village, namely 42.77% and 40.59%, While the lowest severity of leaf rust disease in corn plants was found in Tungkai Selatan Village and Cimparuah Village, which amounted to 7.18% and 10.21%.

Keywords : Intensity of Attack, Corn (*Zea mays* L.), Rust of corn leaves, *Puccinia* sp

