



## **KAJIAN STATUS PENYAKIT-PENYAKIT PENTING PADA MANGGIS (*GARCINIA MANGOSTANA*)**

**Juaidi**

### **INTISARI**

Salah satu faktor penyebab rendahnya tingkat produktivitas dan kualitas buah manggis adalah adanya gangguan penyakit. Kajian tentang penyakit manggis ini bertujuan untuk mengetahui macam, agihan, dan perkembangan penyakit penting pada manggis.

Macam penyakit disurvei pada tiga kawasan sentra produksi utama manggis di Jawa Tengah, Daerah Istimewa Yogyakarta, dan Kepulauan Bangka Belitung dari bulan Juli sampai Desember 2003. Pengamatan agihan dan perkembangan penyakit-penyakit penting dan unsur-unsur cuaca dilakukan bersamaan pada bulan Desember 2003 sampai Januari 2004 di Purworejo dan Belitung Barat. Sifat fisik dan kimia tanah dianalisis pada ketiga lokasi.

Tiga macam penyakit penting ditemukan yaitu penyakit bercak daun *Pestalotia*, busuk buah (*Botryodiplodia* sp.), dan getah kuning. Macam penyakit tersebar pada semua tipologi lahan dengan agihan yang berbeda. Intensitas penyakit bercak daun *Pestalotia*, busuk buah *Botryodiplodia*, dan getah kuning dijumpai tertinggi berturut-turut pada lahan miring dengan banyak rumput, lahan miring dengan sedikit rumput, dan lahan datar dengan sedikit rumput.

Topografi, ketinggian tempat, kondisi lahan, unsur cuaca, sifat fisik dan kimia tanah berhubungan erat dengan intensitas penyakit getah kuning, busuk buah, dan laju infeksi penyakit bercak daun *Pestalotia*, sedangkan dengan intensitas dan proporsi penyakit bercak daun *Pestalotia* menunjukkan hubungan yang lemah.

Kata-kata kunci : manggis, penyakit penting, agihan penyakit, faktor lingkungan



## THE STUDY ON THE STATUS OF IMPORTANT DISEASES OF MANGOSTEEN (*GARCINIA MANGOSTANA*)

**Juaidi**

### ABSTRACT

Disease is one of the factors that affect the productivity and quality of mangosteen. The research aim to characterize the kinds, distributions, and development of important diseases on mangosteen.

The series of survey to characterize kind of mangosteen diseases had been conducted at three main of mangosteen productions in Central Java, Daerah Istimewa Yogyakarta, and Bangka Belitung which starting since July to December 2003. Observation of distribution and development of the important diseases and weather components were conducted since December 2003 to January 2004 in Purworejo and West Belitung. Analysis of soil physical and chemical characteristics had been done at three locations.

Three kinds of important diseases found were *Pestalotia* leaf spot, fruit rot (*Botryodiplodia* sp.), and gamboge (*getah kuning*). All of diseases observed spread on all of land typologies, but with different distribution. Disease intensity of *Pestalotia* leaf spot, fruit rot (*Botryodiplodia* sp.), and gamboge (*getah kuning*) was higher at slope land with more grasses, slope land with less grasses, and flat land with less grasses, respectively.

Topography, altitude, land condition, weather components, soil physical and chemical characteristics had high correlation with the disease intensity of gamboge, fruit rot, and infection rate of *Pestalotia* leaf spot, but they showed low correlation with disease intensity and disease proportion of *Pestalotia* leaf spot.

Key words : Mangosteen, important diseases, distribution, environmental factors