

ABSTRAK

LUAS DAN TINGKAT SERANGAN HAMA PENYAKIT PADA POHON PALA DI AREAL GARAPAN PETANI KTH HARAPAN BARU DALAM TAHURA WAN ABDUL RACHMAN

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Pohon pala (*Myristica fragrans* Houtt.) adalah salah satu jenis pohon penghasil rempah yang bernilai ekonomi tinggi. Akan tetapi, pohon pala di lahan garapan petani hutan di Blok Tradisional dalam Taman Hutan Raya Wan Abdul Rachman mengalami kerusakan organ yang diduga karena serangan hama penyakit. Oleh karena itu, penelitian dilakukan dengan tujuan mengidentifikasi jenis kerusakan, menghitung luas serangan, memetakan sebaran gejala, serta menilai tingkat serangan hama dan penyakit pada pohon pala di areal garapan petani KTH Harapan Baru 3. Survei dilakukan pada tegakan kebun hutan seluas 52 ha menggunakan metode garis berpetak yang ditentukan dengan sampling sistematis berintensitas 1,5%. Data yang dihimpun meliputi jenis kerusakan organ pohon pala dan luas organ yang mengalami kerusakan. Kemudian dilakukan analisis penyebab kerusakan, luas serangan, dan tingkat serangan. Hasil penelitian menunjukkan terdapat 11 jenis kerusakan yang menyerang seluruh organ tanaman, termasuk nekrosis, kanker buah, bercak kuning, bercak hitam, daun berlubang, dan daun menggulung. Luas serangan tercatat mencapai 100% pada seluruh 66 individu pala yang diamati, menandakan seluruh pohon mengalami gejala kerusakan. Meskipun demikian, tingkat serangan berada pada kategori sangat ringan dengan nilai rata-rata 5,68%, ditunjukkan oleh skor 1 pada semua plot sampel. Sebaran gejala juga merata pada seluruh 20 plot, mengindikasikan bahwa tekanan patogen dan hama bersifat kawasan dan dipengaruhi oleh iklim mikro lembap (>85%) serta intensitas cahaya rendah di bawah tegakan penabung. Kerusakan yang terjadi masih berada pada intensitas rendah sehingga pengendalian preventif masih sangat terbuka.

Kata kunci: pala, hama dan penyakit, luas serangan, tingkat serangan,

ABSTRACT

EXTENT AND LEVEL OF PEST AND DISEASE ATTACKS ON NUTMEG TREES IN THE FARMING AREAS OF KTH HARAPAN BARU IN TAHURA WAN ABDUL RACHMAN

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Nutmeg trees (Myristica fragrans Houtt.) are one of the high-value spice-producing trees. However, nutmeg trees in the farmers' land within the Traditional Block of Wan Abdul Rachman Nature Park are experiencing organ damage suspected to be caused by pest and disease attacks. Therefore, research was conducted to identify the types of damage, calculate the affected area, map the distribution of symptoms, and assess the level of pest and disease attack on nutmeg trees in the farmers' area of KTH Harapan Baru 3. The survey was carried out at forest garden stand covering 52 hectares using rectangular method determined by systematic sampling at an intensity of 1.5%. Data collected included the types of organ damage on the nutmeg trees and the area of organs affected by damage. Subsequently, an analysis was performed to determine the causes of damage, the extent of the attack, and the attack level. The results showed 11 types of damage affecting all plant organs, including necrosis, fruit cancer, yellow spots, black spots, holey leaves, and curled leaves. The affected area reached 100% across all 66 observed nutmeg individuals, indicating that all trees exhibited symptoms of damage. However, the attack level was categorized as very light, with an average value of 5.68%, demonstrated by a score of 1 in all sample plots. The distribution of symptoms was also uniform across all 20 plots, indicating that pathogen and pest pressure is regional and influenced by a humid microclimate (>85%) and low light intensity beneath the canopy. The damage observed is still at a low intensity, so preventive control measures are still very feasible.

Keywords: nutmeg, pests and diseases, extent of attack, level of attack