

ABSTRACT

Abstract. This study aims to gather data on the genetic diversity of banana germplasm through morphological characteristics in Jambi Province. It also seeks to characterize each banana type present in the region and assess the diversity and relationships among banana plants to establish distinct groupings based on their traits. The findings indicate that quantitatively, there are four relative criteria ranging from very narrow to very broad, reflecting diversity. Qualitatively, there is observed diversity across characteristic criteria spanning from very narrow to very broad. Morphologically, bananas in Jambi Province are classified into eight groups, each distinguished by unique identifying characteristics. Correlation analysis reveals that the relationship between morphological diversity and soil pH, soil moisture, and altitude in Jambi Province is notably weak and non-significant.

Keywords: *genetic diversity, morphological diversity*

ABSTRAK

Abstrak. Penelitian ini bertujuan untuk mengumpulkan informasi tentang keragaman genetik plasma nutfah pisang berdasarkan karakter morfologi di Provinsi Jambi, mempelajari dan mengkarakterisasi setiap jenis pisang di wilayah tersebut, serta menentukan tingkat keragaman dan kekerabatan tanaman pisang untuk pengelompokan karakteristik. Hasil penelitian menunjukkan bahwa secara kuantitatif, terdapat empat kriteria keragaman dari sangat sempit hingga sangat luas. Secara kualitatif, keragaman karakter juga bervariasi dari sangat sempit hingga sangat luas. Secara morfologi, pisang di Provinsi Jambi terbagi menjadi delapan kelompok dengan karakteristik pembeda. Analisis korelasi menunjukkan bahwa hubungan antara keragaman morfologi dengan pH tanah, kelembaban tanah, dan ketinggian tempat di Provinsi Jambi sangat rendah dan tidak signifikan.

Keyword : *keragaman genetik, keragaman morfologi*