

## ABSTRAK

Haris Ariando Sembiring (1901010013/Sains dan Teknologi) dengan judul “Pemberian Teknik Budidaya Tradisional dan Modern Pisang Barangan di Kabupaten Deli Serdang (Studi Kasus : Dusun Namokeling, Desa Sukadame, Kecamatan Kutalimbaru dan Desa Tambunen, Kecamatan Sibolangit, Kabupaten Deli Serdang)”.

Penelitian ini bertujuan untuk (1) mengetahui teknik budidaya tanaman pisang barangan secara modern, (2) mengetahui penerapan teknik budidaya tanaman pisang barangan secara tradisional dan (3) mengetahui pengaruh teknik budidaya terhadap produksi pisang barangan. Penelitian ini dilakukan di Dusun Namo Keling Desa Suka Dame, Kecamatan Kutalimbaru dan Desa Tambunen, Kecamatan Sibolangit, Kabupaten Deli Serdang terhitung Januari – Mei 2021. Jumlah sampel pada penelitian ini sebanyak 25 petani. Variabel bebas dalam penelitian ini terdiri dari penyediaan bibit ( $X_1$ ), penyiapan lahan ( $X_2$ ), penanaman ( $X_3$ ), irigasi ( $X_4$ ), penjarangan anakan ( $X_5$ ), pemupukan ( $X_6$ ), sanitasi lahan ( $X_7$ ), pemotongan jantung ( $X_8$ ) dan pengendalian hama dan penyakit ( $X_9$ ), sedangkan variabel terikat adalah produksi pisang barangan. Analisis data menggunakan analisis regresi linier berganda.

Hasil penelitian ini menunjukkan penyediaan bibit (2,39), penjarangan anakan (-2,44), pemupukan (2,37), sanitasi lahan (2,40) dan pengendalian hama (2,35) berpengaruh nyata terhadap produksi pisang barangan, sedangkan penyiapan lahan, penanaman, irigasi, pemotongan jantung pisang berpengaruh tidak nyata terhadap produksi pisang barangan. Hasil produk pisang barangan teknik modern 12,21 ton/ha dan teknik tradisional 9,64 ton/ha.

Kata kunci : **teknik budidaya, produksi dan pisang barangan**

## ABSTRACT

Haris Ariando Sembiring (1901010013/Science and Technology) with the title "Traditional and Modern Banana Cultivation Techniques in Deli Serdang Regency (Case Study: Namokeling Hamlet, Sukadame Village, Kutalimbaru District and Tambunen Village, Sibolangit District, Deli Serdang Regency)".

The objective of this study was to (1) determine the modern cultivation techniques of Barangan bananas, (2) determine the application of traditional Barangan banana cultivation techniques and (3) determine the effect of cultivation techniques on the production of Barangan bananas. This research was conducted in Namo Keling Hamlet, Suka Dame Village, Kutalimbaru District and Tambunen Village, Sibolangit District, Deli Serdang Regency from January to May 2021. The number of samples in this study was 25 farmers. The independent variables in this study consisted of providing seeds (X1), land preparation (X2), planting (X3), irrigation (X4), thinning tillers (X5), fertilizing (X6), land sanitation (X7), cutting the heart (X8 ) and pest and disease control (X9), while the dependent variable was the production of Barangan bananas. Data analysis used multiple linear regression analysis.

The results of this study showed that the provision of seeds (2.39), thinning of tillers (-2.44), fertilization (2.37), land sanitation (2.40) and pest control (2.35) had a significant effect on the production of Barangan bananas, while land preparation, planting, irrigation, cutting banana buds had no significant effect on the production of Barangan bananas. The yield of banana products with modern techniques is 12.21 tons/ha and traditional techniques 9.64 tons/ha.

**Keywords: cultivation techniques, production and barangan banana**