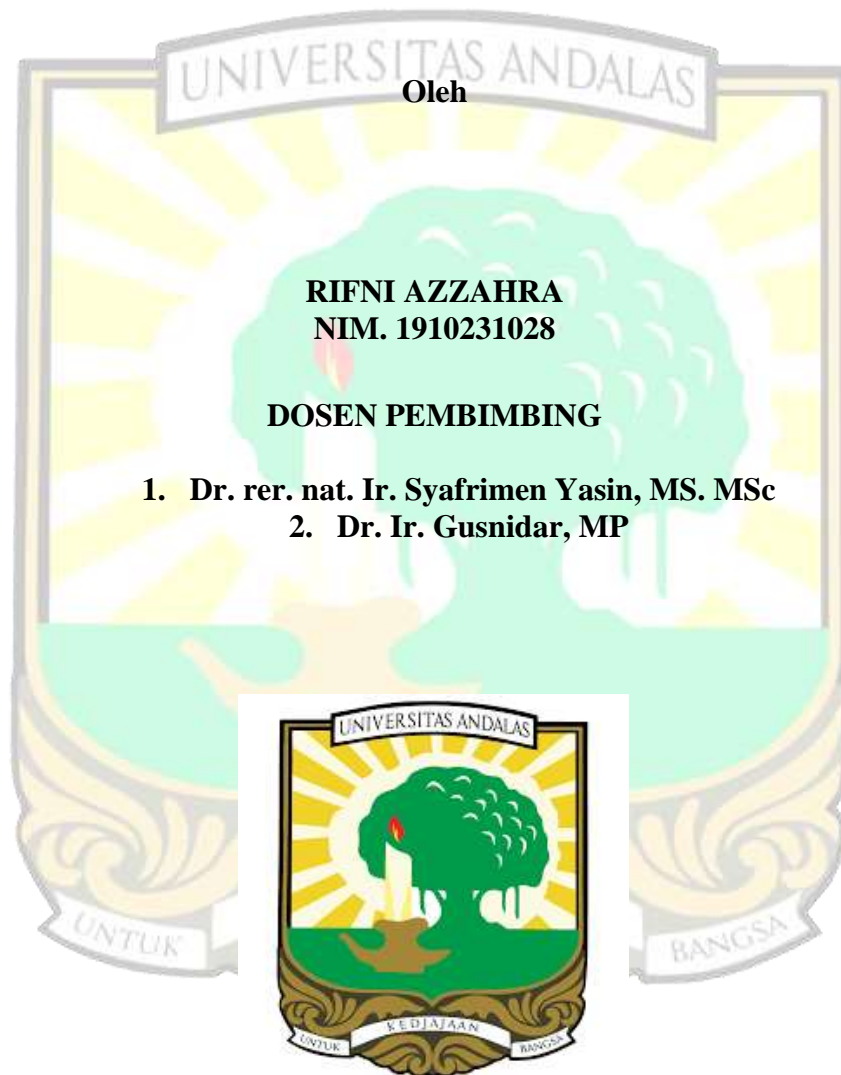


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SKRIPSI



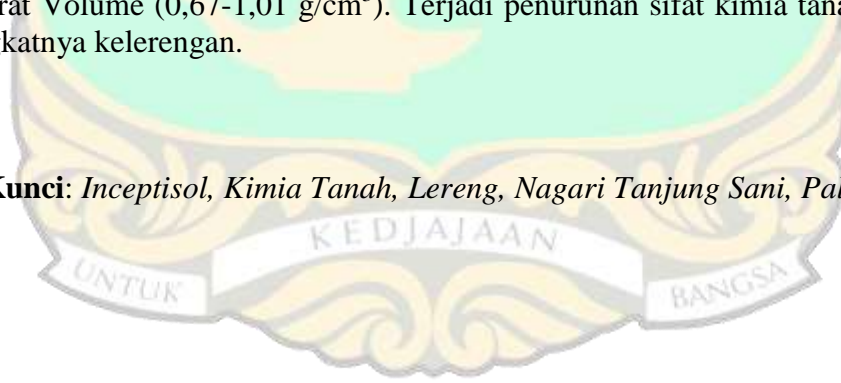
**FAKULTAS PERTANIAN
UNIVERSITAS ANDALAS
PADANG
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KAJIAN SIFAT KIMIA INCEPTISOL YANG DITANAMI PALA (*Myristica fragrans* Houtte) PADA BEBERAPA KELAS LERENG DI KENAGARIAN TANJUNG SANI KECAMATAN TANJUNG RAYA KABUPATEN AGAM

Abstrak

Nagari Tanjung Sani sangat berpotensi sebagai daerah penghasil pala di Sumatera Barat. Namun, memiliki kelemahan dengan kawasan lahan yang berlereng dan curah hujan yang tinggi yang dapat menjadi faktor berkurangnya unsur hara. Sehingga, diperlukan penelitian mengenai sifat kimia tanah pada lahan tersebut. Penelitian ini, bertujuan untuk mengkaji perbedaan sifat kimia tanah pada beberapa kelas lereng yang berbeda pada penggunaan lahan pala (*Myristica fragrans* Houtte) di Kenagarian Tanjung Sani, Kecamatan Tanjung Raya, Kabupaten Agam. Penelitian ini telah dilaksanakan pada bulan Desember 2022-April 2023. Analisis tanah dilakukan di Laboratorium Departemen Ilmu Tanah dan Sumber Daya Lahan Fakultas Pertanian, Universitas Andalas Padang. Sampel tanah diambil dengan teknik *Purposive Random Sampling*. Sampel tanah yang diambil adalah sampel tanah utuh dan terganggu yang diambil pada 4 kelerengan (0-8%, 8-15%, 15-25%, dan 25-45%) kedalaman 0-30 cm dengan 3 ulangan. Parameter yang dianalisis diantaranya pH, C-organik, P-Tersedia, N-Total, C/N, Kapasitas Tukar Kation, Kation Basa Ca, Mg, Na, dan K, kejenuhan basa, dan Berat Volume Tanah. Hasil penelitian menunjukkan lahan pala memiliki pH tanah berkisar (5,53-5,83), C-Organik berkisar (1,59-2,69%), P-Tersedia berkisar (1,54-10,34 ppm), N-Total berkisar (0,28-0,41%), C/N (5,55-6,42), KTK (22,31-26,79 me/100 g), Ca-dd (3,92-5,17 me/100 g), Mg-dd (2,99-3,35 me/100 g), Na-dd (0,49-0,76 me/100 g), K-dd (0,12-0,22 me/100 g), Kejenuhan Basa (33,67-35,58), dan Berat Volume (0,67-1,01 g/cm³). Terjadi penurunan sifat kimia tanah seiring meningkatnya kelerengan.

Kata Kunci: *Inceptisol, Kimia Tanah, Lereng, Nagari Tanjung Sani, Pala*



STUDY ON CHEMICAL PROPERTIES OF INCEPTISOL UNDER NUTMEG (*Myristica fragrans* Houtte) CULTIVATION AT SEVERAL SLOPE CLASSES IN TANJUNG SANI DISTRICT OF TANJUNG RAYA, AGAM REGENCY

Abstract

Nagari Tanjung Sani has great potential as a nutmeg producing area in West Sumatra. However, it has sloping areas and high annual rainfall which can cause nutrient depletion. This study was aimed to assess differences in soil chemical properties on several classes of slope under nutmeg (*Myristica fragrans* Houtte) cultivation in Nagari Tanjung Sani, Tanjung Raya District, Agam Regency. This research was carried out in December 2022-April 2023. Soil samples were taken by Purposive Sampling technique, based on land slopes (0-8%, 8-15%, 15-25%, and 25-45%) at 0-30 cm soil depth with 3 replicates. Soil analysis was carried out at the Laboratory of the Department of Soil Science and Land Resources, Faculty of Agriculture, University of Andalas Padang. Parameters analyzed were soil pH, organic-C, P-available, total-N, C/N ratio, cation exchange capacity, basic cations (Ca, Mg, Na, and K), base saturation, and bulk density. The results showed that nutmeg land had low soil pH (5.53-5.83), low-medium organic-C content (1.59-2.69%), low P-available (1.54-10.34 ppm), medium total-N (0.28-0.41%), low C/N ratio (5.55-6.42), high CEC (22.31-26.79 cmol/kg), low Ca exchangeable (3.92-5.17), high Mg (2.99-3.35), medium-high Na (0.49-0.76), low K (0.12-0.22), medium base saturation (33.67-35.58%), and medium bulk density (0.67-1.01 g/cm³). There was a tendency of decreasing in the chemical properties of the soil as the slope increased.

Keywords: *Inceptisols, Nagari Tanjung Sani, Nutmeg, Slope Classes, Soil Chemistry*

