

**PEMETAAN BEBERAPA CIRI KIMIA TANAH DI NAGARI
SITIUNG KECAMATAN SITIUNG KABUPATEN
DHARMASRAYA**

Oleh :

GUNADI
1210233012

SKRIPSI



Pembimbing:

Dr. Juniarti, SP, MP
Dr. Ir. Gusnidar, MP

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ABSTRAK

Nagari Sitiung yang terletak di Kecamatan Sitiung Kabupaten Dharmasraya, Sumatera Barat memiliki luas 5804,3 ha, yang didominasi oleh perkebunan rakyat. Kandungan unsur kimia tanah di nagari Sitiung berkisar pada kriteria sangat rendah hingga sedang, namun belum ada informasi gambaran keadaan tanah dalam bentuk peta. Tujuan dari penelitian adalah untuk menentukan dan memetakan beberapa ciri kimia tanah Nagari Sitiung Kecamatan Sitiung Kabupaten Dharmasraya. Penelitian dilakukan dengan menggunakan metode survei, serta model analisis data spasial. Pengambilan sampel tanah berdasarkan satuan lahan (SL) yang dilakukan secara *purposive random sampling*. Ada 12 satuan lahan (SL) yang diambil yaitu: SL 1: Ultisols, lereng datar, kebun campuran; SL 2: Ultisols, lereng datar, sawah; SL 3: Entisols, lereng datar, sawah; SL 4: Entisols, lereng datar, kebun campuran; SL 5: Entisols, lereng landai, semak belukar; SL 6: Oxisols, lereng landai, semak belukar; SL 7: Entisols, lereng landai, kelapa sawit; SL 8: Entisols, lereng datar, kelapa sawit; SL 9: Oxisols, lereng landai, kelapa sawit; SL 10: Oxisols, lereng datar, kelapa sawit; SL 11: Ultisols, lereng landai, kelapa sawit; SL 12: Oxisols, lereng curam, kelapa sawit. Model analisis data dan spasial digunakan untuk pengolahan data hasil analisis tanah menjadi sebuah peta tematik pH tanah, Al-dd, C-organik, N-total, P-tersedia, KTK tanah, dan kation basa. Hasil penelitian menunjukkan nilai pH tertinggi 5,76 (agak masam) terdapat pada SL 3, dan nilai pH terendah 4,37 (sangat masam) terdapat pada SL 10. Nilai Al-dd tertinggi 9,72 me/100g terdapat pada SL 6, sedangkan nilai Al-dd terendah 0,92 me/100g terdapat pada SL 3. Selanjutnya, nilai C-organik tertinggi 3,12 % (tinggi) terdapat pada SL 2, dan yang terendah 1,78 % (rendah) pada SL 6. Kandungan N-total semuanya berada pada kriteria sedang. Kandungan P-tersedia tertinggi 14,7 ppm terdapat pada SL 10, dan yang terendah 7,93 ppm (rendah) terdapat pada SL 4. Nilai KTK tertinggi 12,74 me/100g (rendah) terdapat pada SL 1, dan yang terendah 4,70 me/100g (sangat rendah) terdapat pada SL 7. Kandungan kation basa berada pada kriteria rendah sampai sedang.

Kata Kunci: Ciri Kimia Tanah, Nagari Sitiung, Peta Tanah Tematik, Satuan Lahan.

THE MAPPING OF SOME SOIL CHEMICAL PROPERTIES IN SITIUNG, DHARMASRAYA REGENCY

ABSTRACT

Sitiung located in Dharmasraya, West Sumatera has 5804.3 ha area which was dominated by small holder agriculture. The soil chemical properties in Sitiung village were often analysed by some scientists, but there was no map yet provided for the soil properties information. The purpose of the study was to determine and to create map of some soil chemical characteristics in Sitiung Village, Sitiung District, Dharmasraya Regency. The study was conducted using a survey method, as well as spatial data analysis model. Soil sampling were taken in purposive random sampling under several land units (LU), the land units (LU) were limited by soil order, slopes, and land use. LU 1: Ultisols, flat, mixed garden; LU 2: Ultisols, flat, rice; LU 3: Entisols, flat, rice; LU 4: Entisols, flat, mixed garden; LU 5: Entisols, mild, shrubs; LU 6: Oxisols, mild, shrubs; LU 7: Entisols, mild, oil palm; LU 8: Entisols, flat, oil palm; LU 9: Oxisols, mild, oil palm; LU 10: Oxisols, flat, oil palm; LU 11: Ultisols, mild, oil palm; LU 12: Oxisols, steep, oil palm. Parameters analysed were pH, Al-exchangable, organic-C, total-N, P-available, CEC, and base saturation. The spatial data analysis and data processing were used to transform soil analysis results into a thematic soil map. The result showed that the highest pH value was 5.76 (slightly acid) found in LU 3, and the lowest pH value was 4.37 (highly acid) in LU 10. The highest Al-exchangable was 9.72 cmol/kg in LU 6, while the lowest value was 0.92 cmol/kg in LU 3. Furthermore, the highest value of organic-C was 3.12 % (high) in LU 2, and the lowest was 1.78 % (low) in the LU 6. The total-N content was medium. The highest content of P-available was 14.7 ppm in LU 10, and the lowest was 7.93 ppm (low) in the LU 4. The highest CEC was 12.74 cmol/kg (low) and the lowest was 4.70 cmol/kg (very low) in LU 7. The basic cation content was found to be low to moderate.

Keyword: Land Unit, Sitiung Village, Soil chemical properties, Thematic soil map

