

**KAJIAN STATUS HARA P, K, DAN S PADA LAHAN PADI SAWAH
YANG TERDAMPAK ALIRAN LAHAR DINGIN MERAPI DI WILAYAH
DESA SUKORINI, KECAMATAN MANISRENGGO, KABUPATEN
KLATEN**

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ABSTRAK

Lahar dingin gunung Merapi yang kaya hara Phospor (P), Kalium (K), dan Sulfat (S) sering kali berdampak pada lahan padi sawah disekitarnya. Penelitian ini bertujuan untuk mengetahui status hara P, K, dan S pada lahan padi sawah yang terdampak aliran lahar dingin gunung Merapi di wilayah Desa Sukorini, Kecamatan Manisrenggo, Kabupaten Klaten. Metode yang digunakan adalah metode survei dan metode *purposive sampling*. Analisis data menggunakan Uji t, selanjutnya dilakukan *matching* untuk pengharkatan masing-masing unsur. Titik sampel (perlakuan) meliputi lahan padi sawah yang: tidak terdampak aliran lahar dingin Merapi (S0), terdampak aliran lahar dingin Merapi bagian hulu (S1), tengah (S2), hilir (S3), jarak 50m (S4), 200m (S5), 450m (S6) memotong arah aliran. Parameter penelitian meliputi tekstur, P-tersedia, K-tersedia, S-tersedia, KPK, C-Organik, DHL, Eh, dan pH. Hasil penelitian menunjukkan bahwa status hara P-tersedia berharkat Sangat Tinggi untuk semua perlakuan kecuali pada lahan terdampak aliran lahar dingin Merapi bagian tengah berstatus Tinggi. Status Hara K-tersedia berharkat Rendah untuk semua perlakuan, sedangkan untuk status hara S-tersedia berharkat Sangat Tinggi untuk semua perlakuan.

Kata Kunci : Lahar Dingin Merapi, Status Hara P, K dan S, Padi Sawah

**THE STUDY OF P, K AND S NUTRIENT STATUS AT PADDY'S SOIL
THAT AFFECTED BY THE FLOW OF MERAPI'S LAVA FLOW IN
SUKORINI VILLAGE, MANISRENGGO, KLATEN DISTRICT**

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ABSTRACT

The Lava of Merapi's mountain which is rich in nutrients Phospor (P), Kalium (K) and Sulfate (S) often impact to the surrounding of paddy's soil. This study aimed to determine the nutrient status of P, K and S in paddy's soil that affected by lava flow of Merapi mountain in Sukorini Village, Manisrenggo subdistrict, Klaten District. The method used are a survey method and purposive sampling method. Data analysis using t-test, then performed matching analysis for the scoring of each element. The sample points (treatments) included paddy fields that: was not affected by Merapi lava flow (S0), affected by Merapi Lava flow upstream (S1), Middle (S2), Downstream (S3), and distances: 50m (S4), 200m (S5), 450m (S6) cuts the flow direction. Research parameters include Texture, P-available, K-available, S-available, Cation Exchange Capacity, C-Organic, Electric Conductivity, Eh, and pH. The results showed that the P-available nutrient status was very high for all treatments, except land affected by Merapi lava flow in the middle was high status. Nutrient status of K-available was low for all treatments, meanwhile the rate nutrient status of S-available was very high for all treatments.

Keywords: Merapi lava, Nutrient status P, K, and S, Paddy's Soil