EVALUASI KESESUAIAN LAHAN TANAMAN TEH *(Camellia sinensis)* DI DESA PURWOSARI, KAPANEWON GIRIMULYO, KABUPATEN KULON PROGO, D.I.YOGYAKARTA

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ABSTRAK

Desa Purwosari Kapanewon Girimulyo merupakan salah satu kawasan pengembangan perkebunan teh di Kapanewon Girimulyo Kabupaten Kulon Progo, D.I.Yogyakarta. Penelitian ini bertujuan untuk mengetahui karakteristik lahan, mengevaluasi dan memetakan tingkat kesesuaian lahan untuk tanaman teh di Desa Purwosari, Kapanewon Girimulyo, Kabupaten Kulon Progo, D.I.Yogyakarta. Penelitian menggunakan metode *survey* untuk mengetahui kondisi wilayah, metode *purposive sampling* untuk penentuan titik sampel berdasarkan Peta Sistem Lahan yang dibuat dengan *overlay* peta jenis tanah, peta tata guna lahan dan peta kemiringan lereng. Analisis kesesuaian lahan dilakukan dengan metode pembandingan (*matching*) karakteristik lahan dengan kriteria kesesuaian lahan. Parameter penelitian meliputi temperatur rerata, curah hujan, kelembaban, lama masa kering, drainase, tekstur, bahan kasar, kedalaman tanah, KPK tanah, kejenuhan basa, pH H_2O, C-organik, N-Total, P_2O_5, K_2O, kemiringan lereng, bahaya erosi, genangan, batuan permukaan, dan singkapan batuan. Karakteristik lahan diperoleh temperature rerata 21,5-24,2^oC, curah hujan 2,087,9 mm/tahun, kelembaban udara 78% dan masa kering 4,5 bulan. Drainase tanah baik, tekstur tanah agak halus sampai kasar, bahan kasar sedikit sampai banyak, KPK tanahnya rendah dengan kejenuhan basa sangat rendah sampai sedang, pH tanah 5,3-7,2, C-Organik tanah sangat rendah sampai tinggi, N-Total tanah tinggi sampai sangat tinggi, kadar P_2O_5 sangat rendah sampai sangat tinggi dan kadar K_2O sangat rendah. Bahaya erosinya sangat ringan dan tidak ada bahaya banjir. Batuan permukaan dan singkapan batuan hampir tidak ada. Hasil penilaian kesesuaian lahan dari total luas 459,947 Ha untuk tanaman teh menghasilkan kelas kesesuaian lahan $S3_{wa}$ (*Marginal Suitable water availability*) 36,11% dan $S3_{warc}$ (*Marginal Suitable water availability, root condition*) 13,64%.

Kata kunci : evaluasi, karakteristik lahan, kesesuaian lahan, *matching*, tanaman teh

EVALUATION OF LAND SUITABILITY FOR TEA PLANTS *(Camellia sinensis)* IN PURWOSARI VILLAGE, GIRIMULYO DISTRICT, KULON PROGO REGENCY, D.I.YOGYAKARTA

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ABSTRACT

Purwosari Village Kapanewon Girimulyo is one of the tea plantation development areas in Kapanewon Girimulyo, Kulon Progo Regency, D.I.Yogyakarta. This study aims to determine the characteristics of the land, evaluate and map the level of land suitability for tea plants in Purwosari Village, Kapanewon Girimulyo, Kulon Progo Regency, D.I.Yogyakarta. The study used a survey method to determine the condition of the area, a purposive sampling method to determine sample points based on a Land System Map made with an overlay of soil type maps, land use maps and slope maps. Land suitability analysis was carried out by comparing land characteristics with land suitability criteria. Research parameters include mean temperature, rainfall, humidity, length of dry period, drainage, texture, coarse material, soil depth, soil CEC, base saturation, pH H_2O, C-organic, N-Total, P_2O_5, K_2O, slope, hazard. erosion, inundation, surface rocks, and rock outcrops. Land characteristics obtained mean temperature 21.5-24.2oC, rainfall 2,087.9 mm/year, humidity 78% and dry period 4,5 months. Soil drainage is good, soil texture is slightly fine to coarse, coarse material is slightly to a lot, soil CEC is low with base saturation very low to moderate, soil pH is 5,3-7,2 , C-Organic is very low to high, N-Total high to very high, very low to very high P_2O_5 content and very low K_2O content. The erosion hazard is very light and there is no flood hazard. Surface rocks and rock outcrops are almost non-existent. The results of the land suitability assessment of a total area of 459,947 Ha for tea plants resulted in $S3_{wa}$ land suitability class (Marginal Suitable water availability) 36,11% and $S3_{warc}$ (Marginal Suitable water availability, root condition) 13,64%.

Keywords: evaluation, land characteristics, land suitability, matching, tea plants