

**ANALISIS KUANTITATIF KESESUAIAN BUDIDAYA TANAMAN
BUAH-BUAHAN TROPIS BERDASARKAN KONDISI TANAH,
TOPOGRAFI, DAN IKLIM DI KEBUH BUAH NAWUNGAN DESA
SELOPAMIRO, KECAMATAN IMOGIRI, KABUPATEN BANTUL**

INTISARI

Oleh:

HAIKAL WIDODO

NIM. 14/365787/TP/11015

Penelitian ini dilakukan untuk mengidentifikasi karakter iklim, nilai pH tanah dan elevasi tempat guna menilai kesesuaian lahan untuk budidaya buah-buahan tropis. Penelitian ini berlokasi di kebun buah Nawungan, Desa Selopamiro, Kecamatan Imogiri. Materi penelitian meliputi deskripsi kebun buah dan data statistik desa, topografi dan peta penggunaan lahan skala 1:25.000 dan data iklim 10 tahun terakhir di stasiun terdekat. Di kebun buah Nawungan ada 5 blok kebun, yaitu Durian (*Durio zibethinus Murr.*), Lengkek (*Euphoria longan (Lour) Steud.*), Rambutan (*Nephellium lappaceum*), Sirsak (*Annona muricata L.*), dan Alpukat (*Persea americana Mill.*) dimana setiap zona seluas ± 7 Ha. Pengambilan sampel tanah dilakukan pada masing-masing zona untuk analisis tekstur dan pH. Selanjutnya, pengambilan sampel untuk setiap zona ditujukan untuk pengukuran fisiologi tanaman. Koordinat setiap sampel ditandai oleh GPS (*Global Positioning System*). Metode *purposive sampling* diadopsi untuk penelitian ini. Iklim dicirikan oleh analisis data curah hujan menggunakan klasifikasi Schmidt-Ferguson. Sedangkan kesesuaian lahan untuk budidaya buah tropis menggunakan metode scoring. Hasil penelitian menunjukkan bahwa kebun buah Nawungan tergolong tipe iklim E (agak kering). Tekstur tanah di setiap blok kebun buah menunjukkan jenis lempung berpasir dengan nilai pH tanah sebesar 5 - 6,5. Berdasarkan parameter iklim, tanah dan topografi, pada setiap blok buah diperoleh kelas kesesuaian lahan S3 (kurang sesuai) pada komoditas Durian, Alpukat, Sirsak, Kelengkeng dan Rambutan. Hal ini disebabkan faktor curah hujan dan elevasi tempat yang rendah.

Kata kunci : kesesuaian lahan, karakter iklim, tanah, elevasi, buah-buahan tropis, kebun buah Nawungan

Dosen Pembimbing : Dr. Ngadisih, STP, M.Sc

Dr. Ir. Saiful Rochdyanto, MS

**QUANTITATIVE ANALYSIS FOR LAND SUITABILITY OF TROPICAL
FRUITS CULTIVATION BASED ON SOIL PROPERTIES,
TOPOGRAPHY AND CLIMATE AT NAWUNGAN ORCHARD IN
SELOPAMIORO VILLAGE IMOGIRI SUB-DISTRICT BANTUL
REGENCY**

ABSTRACT

By

HAIKAL WIDODO

NIM. 14/365787/TP/11015

This study was conducted to identify the characteristics of climate, properties, and altitude to assess the land suitability for tropical fruits cultivation. This research was located in Nawungan orchard, Selopamioro Village, Imogiri Sub-district. The research materials include descriptions of orchards and village statistics, topography and land use maps on scale 1: 25.000, and climate data for the last 10 years at the nearest station. There were 5 zones of orchard, i.e.: Durian (*Durio zibethinus Murr.*), Litchi (*Euphoria longan (Lour) Steud*), Rambutan (*Nephellium lappaceum*), Soursop (*Annona muricata L.*), and Avocado (*Persea americana Mill.*) where every zone cover ± 7 Ha. Soil sampling was conducted on each zones for texture and pH analysis. Furthermore, the sampling for each zone was addressed for plant physiology measurement. The coordinate of each sample was marked by GPS (Gobal Positining System). Purposive sampling method was adopted for this research. The climate was characterized by the analysis of rainfall data using the Schmidt-Ferguson classification. While, the land suitability for tropical fruit cultivation using scoring method. The results showed that Nawungan orchard belong to climate type D (moderate rain). The soil has a sandy loam texture and a soil pH value of 5 - 6.5. Based on climatic, soil and topographic parameters, there was a class of S3 land suitability (less suitable) for durian, avocado, soursop, longan and rambutan.

Keywords: land suitability, climate character, soil pH, plant physiology, crop coordinates, land suitability class