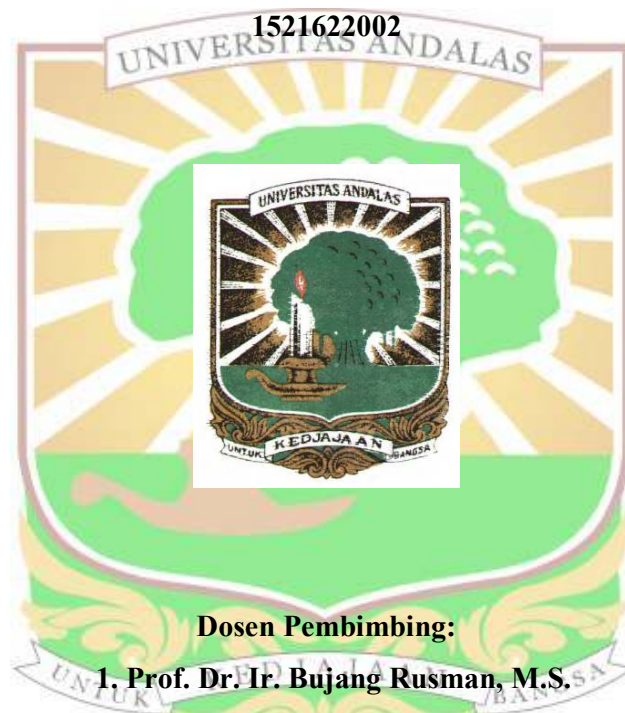


**KAJIAN KESESUAIAN AREAL DAN DAYA DUKUNG  
HUTAN LINDUNG GUNUNG TALANG  
UNTUK WISATA PENDAKIAN GUNUNG**

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# KAJIAN KESESUAIAN AREAL DAN DAYA DUKUNG HUTAN LINDUNG GUNUNG TALANG UNTUK WISATA PENDAKIAN GUNUNG

Hendrio Fadly, Bujang Rusman, Wilson Novarino

## ABSTRAK

Penelitian bertujuan untuk menganalisis kesesuaian areal Hutan Lindung Gunung Talang untuk aktivitas pendakian gunung dengan Sistem Informasi Geografi, dan menghitung daya dukung Hutan Lindung Gunung Talang untuk aktivitas pendakian gunung berdasarkan Daya Dukung Fisik (*Physical Carrying Capacity*), Daya Dukung Riil (*Real Carrying Capacity*) dan Daya Dukung Efektif (*Effective Carrying Capacity*). Kesesuaian areal diukur dengan menggunakan 13 parameter yaitu ketinggian, kelerengan, penutupan lahan, curah hujan, suhu, drainase, tipe vegetasi, fauna, formasi geologi menarik, aset sejarah, jarak dengan sumber air, aksesibilitas dan kerawanan bencana gunung api. Masing-masing parameter dipetakan kemudian ditumpang-susunkan sehingga diperoleh peta kesesuaian lahan. Untuk daya dukung dihitung menggunakan rumus ciffuentes yang dimodifikasi terdiri dari daya dukung fisik, daya dukung riil dan daya dukung efektif. Hasil penelitian untuk kesesuaian areal diperoleh nilai kesesuaian areal dengan kategori Sangat Sesuai yaitu 193,52 ha, Sesuai 1.800,16 ha, Kurang Sesuai 1.011,20 ha dan Tidak Sesuai 107,27 ha. Untuk hasil penelitian daya dukung didapatkan nilai Daya Dukung Fisik yaitu sebesar 2.956 pendaki/hari, Daya Dukung Riil sebesar 684 pendaki/hari dan Daya Dukung Efektif sebesar 513 pendaki/hari.

**Kata kunci:** kesesuaian areal, daya dukung, Hutan Lindung Gunung Talang.

# STUDY OF TERRAIN SUITABILITY AND CARRYING CAPACITY FOR MOUNTAIN TOURISM IN MOUNT TALANG PROTECTED FOREST

Hendrio Fadly, Bujang Rusman, Wilson Novarino

## ABSTRACT

The objectives of this research were to analyze terrain suitability of Mount Talang Protected Forest for mountain tourism activities with the Geography Information System (GIS), and to estimate the carrying capacity of Mount Talang Protected Forest for mountain tourism activities based on physical carrying capacity, real carrying capacity and effective carrying capacity. Terrain suitability is measured using 13 parameters, such as altitude, slope, land cover, rainfall, temperature, drainage, vegetation type, fauna, interesting geological formations, historical assets, distance from water sources, accessibility and vulnerability to volcanic disasters. Each parameter mapped then overlay so that a land suitability map is obtained. Carrying capacity estimated by using a modified Cifuentes formula consisting of physical carrying capacity, real carrying capacity and effective carrying capacity. As a result of analyses, it was determined that 193,52 ha was quite suitable, 1.800,16 ha was suitable, 1.011,20 ha was less suitable and 107,27 ha was not suitable. Carrying capacity was obtained by the value of physical carrying capacity of 2.956 climbers/day, real carrying capacity of 684 climbers/day and effective carrying capacity of 513 climbers/day.

*Keywords:* terrain suitability, carrying capacity, Mount Talang Protected Forest.