

**PENGARUH EKSTRAK DAUN KIRINYUH (*Chromolaena odorata* (L.)
R.M.King & H.Rob.) SEBAGAI HERBISIDA ALAMI TERHADAP
PERTUMBUHAN ALANG-ALANG (*Imperata cylindrical* (L.) Raeusch)**

SKRIPSI SARJANA BIOLOGI



**JURUSAN BIOLOGI
FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM
UNIVERSITAS ANDALAS
PADANG
2021**

ABSTRAK

Penelitian tentang Pengaruh Ekstrak Daun Kirinyuh (*Chromolaena odorata*) Sebagai Herbisida Alami Terhadap Pertumbuhan Alang-Alang (*Imperata cylindrica*) telah dilaksanakan pada bulan Agustus - Oktober 2020 di Lahan Percobaan Jurusan Biologi, Laboratorium Fisiologi Tumbuhan Jurusan Biologi, Fakultas Matematika dan Ilmu Pengetahuan alam, Universitas Andalas, Padang. Tujuan penelitian ini yaitu mengetahui pengaruh ekstrak daun kirinyuh (*Chromolaena odorata*) terhadap pertumbuhan gulma alang-alang (*Imperata cylindrica*) dan mengetahui berapa konsentrasi ekstrak daun kirinyuh (*Chromolaena odorata*) yang dapat menekan pertumbuhan gulma alang-alang (*Imperata cylindrica*). Metode yang digunakan yaitu metode eksperimen menggunakan Rancangan Acak Lengkap (RAL) dengan 6 perlakuan dan empat kali ulangan dengan perlakuan kontrol (tanpa pemberian ekstrak); 10%, 20%, 30%, 40% dan 50%. Hasil penelitian menunjukkan bahwa pemberian ekstrak daun kirinyuh dengan konsentrasi 50% mampu menekan pertumbuhan tinggi tanaman, jumlah daun dan juga lebar daun gulma alang-alang, namun belum mampu memberikan pengaruh yang berbeda nyata terhadap panjang akar, berat basah dan berat kering gulma alang-alang.

Kata kunci: *Chromolaena odorata*, Ekstrak, *Imperata cylindrica*, Konsentrasi.



ABSTRACT

Research about Effect of Kirinyuh Leaf Extract (*Chromolaena odorata*) as a Natural Herbicide on the Growth of Alang-alang (*Imperata cylindrica*) was conducted in August - October 2020 at the Greenhouse of Biology Department, Plant Physiology Laboratory, Department of Biology, Faculty of Mathematics and Natural Sciences, University Andalas, Padang. The purposes of this study were to determine the effect of kirinyuh leaf extract (*Chromolaena odorata*) on the growth of *Imperata cylindrica* weeds and to determine the concentration of kirinyuh leaf extract (*Chromolaena odorata*) which can suppress the growth of alang-alang weeds (*Imperata cylindrica*). The method used was the experimental method using a completely randomized design (CRD) with 6 treatments and four replications with a control treatment (without giving the extract); 10%, 20%, 30%, 40% and 50%. The results showed that giving kirinyuh leaf extract with a concentration of 50% was able to suppress the growth of plant height, number of leaves and leaf width of alang-alang weeds, but it was not able to have a significant effect on root length, wet weight and dry weight of alang-alang weeds.

Keywords: *Chromolaena odorata*, Extract, *Imperata cylindrica*, Concentration.

