

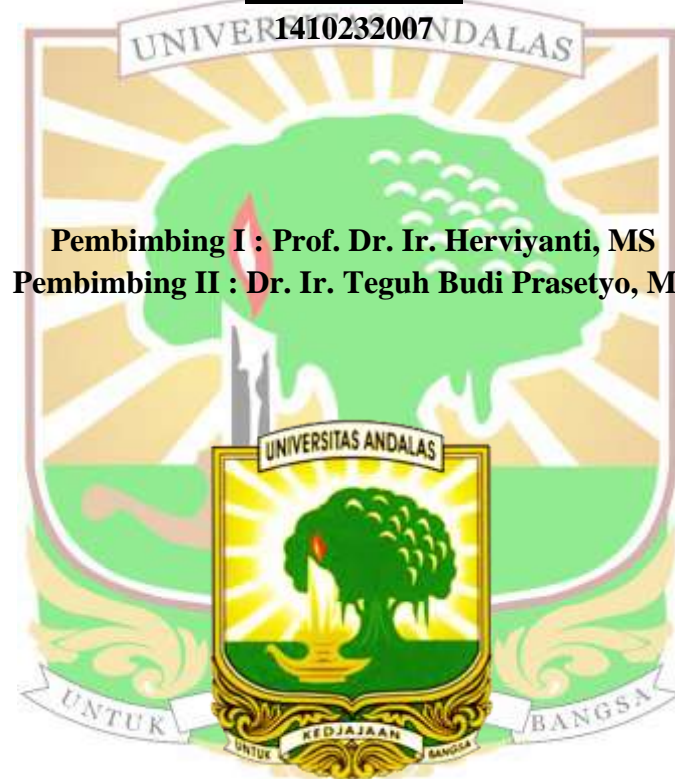
**PENGARUH PEMBERIAN BUBUK SUBITUMINUS  
DALAM MENGURANGI DAMPAK NEGATIF PARAQUAT TERHADAP SIFAT  
KIMIA INCEPTISOL DI KOTO BARU, KECAMATAN X KOTO, KABUPATEN  
TANAH DATAR**

**SKRIPSI**

Oleh :

**MHD. LUTHFI**

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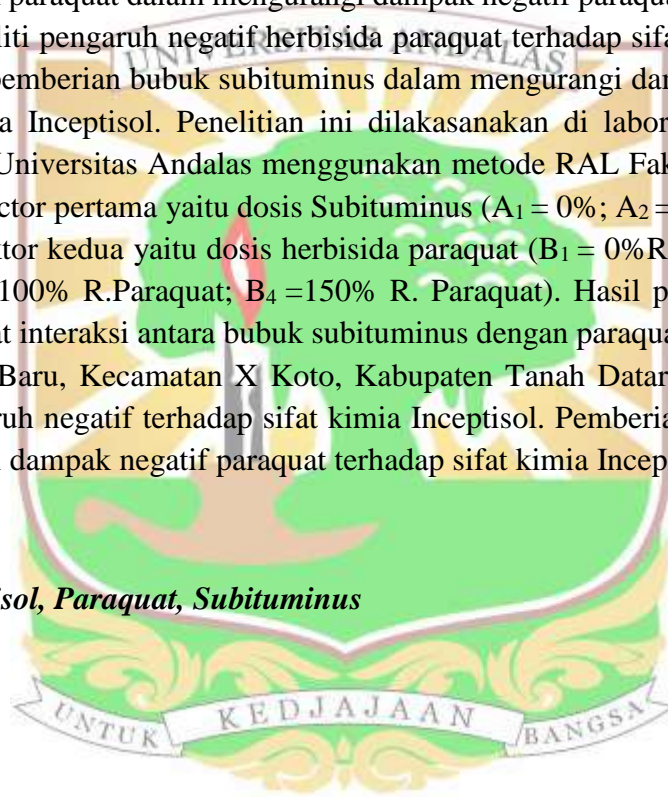
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Abstrak

Penggunaan herbisida paraquat pada lahan instensif holtikultura di Koto Baru, Kecamatan X Koto, Kabupaten Tanah Datar menimbulkan dampak negatif terhadap sifat kimia Inceptisol. Untuk mengurangi dampak negatif penggunaan herbisida paraquat diperlukan Subituminus sebagai bahan amelioran. Penelitian ini bertujuan untuk: 1) meneliti interaksi antara bubuk subituminus dengan paraquat dalam mengurangi dampak negatif paraquat terhadap sifat kimia Inceptisol; 2) meneliti pengaruh negatif herbisida paraquat terhadap sifat kimia Inceptisol; 3) meneliti pengaruh pemberian bubuk subituminus dalam mengurangi dampak negatif paraquat terhadap sifat kimia Inceptisol. Penelitian ini dilaksanakan di laboratorium kimia tanah, Fakultas Pertanian, Universitas Andalas menggunakan metode RAL Faktorial 4 x 4 dengan 3 ulangan, dimana factor pertama yaitu dosis Subituminus ( $A_1 = 0\%$ ;  $A_2 = 0,5\%$ ;  $A_3 = 1,0\%$  dan  $A_4 = 1,5\%$ ) dan Faktor kedua yaitu dosis herbisida paraquat ( $B_1 = 0\%$  R. Paraquat;  $B_2 = 50\%$  R. Paraquat;  $B_3 = 100\%$  R. Paraquat;  $B_4 = 150\%$  R. Paraquat). Hasil penelitian menunjukkan bahwa tidak terdapat interaksi antara bubuk subituminus dengan paraquat terhadap sifat kimia Inceptisol di Koto Baru, Kecamatan X Koto, Kabupaten Tanah Datar. Pemberian paraquat memberikan pengaruh negatif terhadap sifat kimia Inceptisol. Pemberian bubuk subituminus mampu mengurangi dampak negatif paraquat terhadap sifat kimia Inceptisol.

***Kata kunci :Inceptisol, Paraquat, Subituminus***



# **THE EFFECT OF SUB-BITUMINOUS POWDER APPLICATION TO REDUCE THE NEGATIVE IMPACT OF PARAQUAT ON CHEMICAL PROPERTIES ON INCEPTISOL IN KOTO BARU, X KOTO SUBDISTRICT OF TANAH DATAR**

## **Abstract**

The use of the herbicide paraquat on intensive horticultural land in Koto Baru, Subdistrict of X Koto, Tanah Datar had the negative impact on the chemical properties of Inceptisol. To reduce the negative impact of the paraquat herbicide use was needed an ameliorant material, one of which is Sub-bituminous. This research was aimed to 1) examine the interactions between the powder sub-bituminous with paraquat in reducing the negative effects of paraquat on the chemical properties of Inceptisol; 2) examine the negative influence of the herbicide paraquat on the chemical properties of Inceptisol; 3) evaluate the effects of powder sub-bituminous in reducing the negative effects of paraquat on the chemical properties of Inceptisol. This research was carried out in soil chemistry laboratory, Faculty of Agriculture, Andalas University using a 4 x 4 factorial with three replications. The first factor was the dose Sub-bituminous (A1 = 0%; A2 = 0.5%; A3 = A4 = 1.0% and 1.5%) and the second factor was the dose of herbicide paraquat (B1 = 0% R. paraquat; B2 = 50% R. paraquat; B3 = 100% R. Paraquat; B4 = 150% R. paraquat). The experimental unit were allocated based on completely randomized design (CRD). The results of the research showed that there was no interaction between the sub-bituminous powder with paraquat against chemical properties of Inceptisol in Koto Baru, X Koto Subdistrict, Tanah Datar. The application of paraquat negatively influenced the chemical properties of Inceptisol. Application of sub-bituminous powder was able to reduce the negative effects of paraquat on the chemical properties of Inceptisol.

***Keywords: Inceptisol, Paraquat, Sub-bituminous***

