

# **Pengaruh Dosis Air Cucian Beras Dan Dosis Pupuk NPK Terhadap Pertumbuhan Dan Hasil Tanaman Cabai Merah**

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## **ABSTRAK**

Tanaman cabai merah (*Capsicum annum* L.) merupakan tanaman sayuran penting yang menjadi kebutuhan pokok karena banyak dimanfaatkan oleh masyarakat. Cabai merah adalah tanaman yang sangat populer di seluruh dunia. Tujuan penelitian yaitu untuk mengetahui pengaruh dosis air cucian beras dan dosis pupuk NPK. Penelitian ini dilaksanakan bulan Desember 2018 sampai bulan Februari 2019 di kebun Percobaan Wedomartani Fakultas Pertanian UPN “Veteran” Yogyakarta, Kabupaten Sleman, Daerah Istimewa Yogyakarta. Metode penelitian yang digunakan adalah metode percobaan lapangan yang disusun dengan Rancangan Acak Lengkap (RAL) Faktorial. Faktor pertama adalah dosis air cucian beras yang terdiri dari 3 level, yaitu P0 = 150 ml/tanaman, P1 = 300 ml/tanaman, P2 = 450 ml/tanaman. Faktor kedua adalah dosis pupuk NPK yang terdiri dari 3 level, yaitu N1 = 10g/tanaman, N2 = 15g/tanaman, N3 = 20g/tanaman. Terdapat 9 kombinasi perlakuan yang diulang sebanyak 3 kali, sehingga totalnya terdapat 27 unit percobaan, dan masing – masing unit percobaan terdiri dari 6 tanaman. Parameter yang diamati yaitu tinggi tanaman, diameter batang, bobot buah petanaman, jumlah buah pertanaman, panjang buah, dan diameter buah. Terdapat interaksi nyata antara kombinasi perlakuan dosis air cucian beras dengan dosis pupuk NPK, kombinasi N3P1 merupakan kombinasi perlakuan yang baik pada parameter tinggi tanaman dan diameter batang pada umur 4 MST. Air cucian beras yang difermentasikan dengan dosis 450 ml/tanaman ialah dosis yang paling baik terhadap pertumbuhan dan hasil tanaman cabai merah. NPK 20 g/tanaman merupakan dosis NPK yang paling baik terhadap pertumbuhan dan hasil tanaman cabai merah terutama pada parameter: tinggi tanaman, diameter batang, jumlah buah, bobot buah, dan panjang buah.

**Kata kunci :** Cabai Merah, Air Cucian Beras, Pupuk NPK.

# **The Effect of Rice Washing Water Doses and NPK Fertilizers Dose On Growth and Yield of Red Chili Plants**

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## **ABSTRACT**

Red chili (*Capsicum annum* L.) is an important vegetable plant that is a basic necessity because it is widely used by the community. Red chili is a plant that is very popular throughout the world. The aim of the study was to determine the effect of rice washing water dosage and NPK fertilizer dosage. The research was conducted in December 2018 until February 2019 in the Wedomartani UPN "Veteran" garden in Yogyakarta, Sleman Regency, Special Region of Yogyakarta. The research method used is a field trial method which was arranged in Factorial Completely Randomized Design (CRD). The first factor is rice washing water which consists of 3 levels, namely P0 = 150 ml/plant, P1 = 300 ml/plant, P2 = 450 ml/plant. The second factor is the dose of NPK fertilizer which consists of 3 levels, namely N1 = 10g/plant, N2 = 15g/plant, N3 = 20g/plant. The number of treatments consisted of 9 treatment combinations which were repeated 3 times, so that in total there were 27 experimental units, and each experimental unit consisted of 6 plants. The parameters observed were plant height, stem diameter, weight of fruit per plants, amount of fruit per crop, fruit length, and fruit diameter. There is a real interaction between the combination of doses of rice washing water treatment with NPK fertilizer dosage on plant height 4 weeks planted, stem diameter 4 weeks planted and fruit diameter. There are real interaction between combination water treatment doses of laundry rice with doses fertilizer NPK, combination N3P1 is a combination treatment good to parameter higher plants and diameter of the stem at the age of 4 weeks planted. Fermentation solved of rice with doses 450 ml / plant is doses the best on the growth of and from the sale of red pepper. NPK 20 g / of plants constituting doses NPK the best on the growth of and from the sale of red pepper especially on the parameter: tall plant, diameter of the stem, the number of fruit, fruit weight, and long fruit.

**Keywords :** Red Chili, Water Washed Rice, NPK Fertilizer.