

INTISARI

Penelitian yang berjudul “Transfer Nitrogen Kacang Tanah (*Arachis hypogaea*, L.) Pada Tanaman Jagung (*Zea mays*, L.) yang Dibudidayakan Secara Tumpangsari di Lahan Kering Ungaran” telah dilaksanakan di Lahan Kering Kecamatan Ungaran, Jawa Tengah pada bulan Desember 2015 sampai April 2016.

Penelitian ini dilaksanakan menggunakan metode eksperimental dengan faktor tunggal yang disusun dalam rancangan acak kelompok lengkap. Perlakuan yang diujikan yaitu Jagung monokultur (J), Kacang tanah monokultur (K), Tumpangsari Jagung ditanam 2 minggu setelah tanam kacang tanah (TS 1), Tumpangsari kacang tanah ditanam 2 minggu setelah tanaman jagung (TS 2), dan Tumpangsari Jagung dan Kacang Tanah ditanam bersamaan (TS 3). Setiap perlakuan diulang 3 kali dalam blok.

Hasil penelitian ini menunjukkan bahwa adanya Transfer Nitrogen yang terjadi pada saat tanaman jagung memasuki pertumbuhan vegetatif maksimum. Perlakuan TS 2 merupakan waktu tanam terbaik dari perlakuan lainnya yang ditunjukkan dengan hasil 4,02 ton jagung per hektar.

Kata kunci: Transfer Nitrogen, Kacang Tanah, Jagung, Sistem monokultur dan tumpangsari.

ABSTRACT

A research entitled "Transfer of Nitrogen from Peanut (Arachis hypogaea, L.) to Maize (Zea mays, L.) which planted with Intercropping" was conducted at dryland of Ungaran Central Java from December 2015 up to April 2016.

This research was done using an experimental method with single factor, arranged in completely randomized block design. The treatments were monoculture system of corn (J), monoculture system of peanut (K), Corn was planted two weeks after peanut (TS 1), peanut was planted two weeks after corn (TS 2), and corn and peanut were planted in intercropping system (TS 3). Each treatment was repeated 3 times.

The results showed that the transfer of nitrogen from peanuts to corn was occurred when the corns were in the stage of maximum vegetative growth. In this research, Treatment TS 2 is the best planting time than other treatments as indicated by the results of 4.02 tonnes maize per hectare.

Keywords: Transfer of Nitrogen, Peanuts, Corn, Monoculture and Intercropping system.