INTISARI

Tujuan penelitian ini yaitu mengetahui pengaruh jenis tanah dan menentukan jenis tanah yang paling sesuai terhadap pertumbuhan dan hasil tanaman jagung (*Zea mays* L.) Varietas Pulut.

Penelitian ini, dilakukan dengan metode eksperimental menggunakan Rancangan Acak Lengkap (RAL) dengan faktor tunggal dan terdiri dari 4 perlakuan yaitu tanaman jagung varietas pulut yang ditanam pada tanah Regosol bukit-pasir (S1), tanah Grumusol (S2), tanah Latosol (S3), dan tanah Mediteran (S4). Parameter yang diamati meliputi tinggi tanaman, jumlah daun, panjang akar, bobot segar akar, bobot kering akar, luas daun, bobot segar tajuk, bobot kering tajuk, laju asimilasi bersih, laju pertumbuhan tanaman, bobot tongkol dengan klobot, bobot tongkol tanpa klobot, diameter tongkol, panjang tongkol, jumlah baris biji, bobot 1.000 biji, potensi hasil tanaman.

Hasil penelitian menunjukkan perlakuan jenis tanah memberikan potensi hasil pada perlakuan tanah Regosol bukit-pasir sebesar 2,6 ton, tanah Latosol sebesar 2,46 ton, tanah Grumusol sebesar 2,05 ton, dan tanah Mediteran sebesar 2,04 ton. Berbagai jenis tanah cenderung memberikan hasil yang relatif sama, sehingga berbagai jenis tanah dikatakan sesuai dalam pertumbuhan dan hasil tanaman jagung varietas pulut.

Kata kunci: tanah regosol bukit-pasir, tanah grumusol, tanah latosol, tanah mediteran dan jagung pulut.

ABSTRACT

A purpose of this research was the effect of soil type and determine the type of soil that is most appropriate for the growth and yield of corn (Zea mays L.*) varieties of pulut.*

This research was conducted with experimental method in field experiment using a Completely Randomized Design (CRD) with single factor and consisting of 4 treatments that is corn (Zea mays L.) varieties of pulut planted on Regosol soil (S1), Grumusol soil (S2), Latosol soil (S3), and Mediterranean soil (S4). The Parameters observed included plant height, leaf number, root length, root fresh weight, root dry weight, leaf area, fresh weight of plant, dry weight of plant, net assimilation rate, plant growth rate, fresh weight of cobs weighted, fresh weight of cob without the cob, diameter of cob, long ear of corn cob, number of rows of seeds, weight of 1,000 seeds, potential yield of plants.

The results showed that the treatment of soil types gave potential results in the treatment of hill-sand Regosol soil of 2.6 tons, Latosol soil of 2.46 tons, Grumusol soil of 2.05 tons, and Mediteran soil of 2.04 tons. Various types of soil tend to produce relatively the same results, so that various types of soil are said to be appropriate in the growth and yield of corn (Zea mays L.) varieties of pulut.

Keywords: *regosol soil, grumusol soil, latosol soil, mediteran soil and waxy corn.*