

## Characteristics of mung bean (*Vigna radiata*) cultivated in Istria

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### Abstract

The Mung bean, *Vigna radiata* L. (R. Wilczek), has its origin in Asia and Africa. It is sporadically being cultivated in the Adriatic part of Croatia and on islands. The aim of experiment was to determine several biological, morphological and agronomic traits of plants cultivated in Istria. A high average germination rate was determined (97 to 99 %). At the moment of harvest the plant height was between 51.2 and 61.3 cm, with 14 to 23 leaves per plant. The total vegetation length was 134 days, flowering began 70 days after sowing, first pods were formed at the 5<sup>th</sup> node, 75 to 84 days after sowing. The number of pods per plant was between 10 and 23, with 9 to 11 seeds per pod. The weight of seeds per pod was 0.75 to 0.80 g because of the typically small seed. The yield of the mung bean cultivated in Istria without irrigation was between 0.82 and 1.51 t/ha. Sowing density had significant effect on plant height, as well as on the number of leaves and pods per plant. The highest yield of the mung bean seed was measured at spacing 30 cm × 20 cm, with three seeds per sowing place.

Key words: germination, sowing density, vegetation length, yield

sa2012\_ao404

## Karakteristike mungo graha (*Vigna radiata*) iz uzgoja u Istri

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### Sažetak

Mungo grah, *Vigna radiata* L. (R. Wilczek), podrijetlom je iz Azije i Afrike, a u Hrvatskoj se uzgaja sporadično u vrtovima u primorskom dijelu i na otocima. Cilj je istraživanja bio utvrditi neke biološke, morfološke i gospodarske karakteristike mungo graha iz uzgoja u Istri. Utvrđena je prosječna klijavost sjemena mungo graha između 97 i 99 %. Visina biljaka neposredno prije berbe, sa formiranih 14 do 23 lista, bila je između 51,2 i 61,3 cm. Ukupna dužina vegetacije bila je 134 dana, faza cvatnje započela je 70 dana nakon sjetve, a formiranje prvih mahuna počelo je na 5. nodiju i to 75 do 84 dana nakon sjetve. Broj mahuna po biljci bio je između 10 i 23, a broj zrna po mahuni 9 do 11. Prosječna masa zrna po mahuni bila je 0,75 do 0,80 g. Prinos mungo graha uzgojenog u Istri bez navodnjavanja bio je između 0,82 i 1,51 t/ha. Gustoća sjetve značajno je utjecala na visinu biljke, kao i na broj listova i mahuna po biljci. Najviši prinosi su postignuti razmakom sjetve 30 cm × 20 cm s 3 sjemenke po kućici.

Ključne riječi: klijavost, gustoća sjetve, dužina vegetacije, prinosi

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