

عنوان مقاله:

Evaluation of genetic diversity in *Datura* (*Daturea Stramonium* L.) ecotypes based on morphological traits

محل انتشار:

پنجمین کنفرانس ملی و اولین کنفرانس بین المللی کشاورزی ارگانیک و مرسوم (سال: 1396)

تعداد صفحات اصل مقاله: 2

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خلاصه مقاله:

In order to study genetic diversity of some *Daturea* ecotypes based on morphological characteristics, Six ecotypes were collected from different parts of the country (Hamedan, Tehran, Gilan, Mashhad, Ardabil and Moghan). An experiment was conducted based on Completely Randomized Design with three replications in 2014. According to the results difference among genotypes were significant in the leaf length mean, leaf width mean and number of seeds per head at 1% probability level and on the main stem height, internodes length, angle and leaf area index mean at 5% probability level. Ardabil ecotype had the highest length and width of the leaf. Also Mashhad and Hamedan ecotypes had the highest number of seeds and Moghan had the lowest seed number in the capsule. The correlation coefficients showed that the maximum positive correlation was between fresh weight and total plant fresh weight ($r = 0.98$) and negative correlation between stem dry weight and number of seeds ($r = -0.92$). In this study, factor analysis were placed measured features in five main and independent factors. Factors with eigenvalues higher than one were justified 100 percent of total variance. Based on the cluster analysis, six studied ecotypes were in two groups. The first group consists of Ardabil, Hamedan, Mashhad and Moghan and the second group Gilan and Tehran ecotypes.

کلمات کلیدی:

Daturea, Iranian ecotypes, morphological diversity, cluster analysis

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