

عنوان مقاله:

Comparison of tree, nut, and kernel characteristics in several walnut species and inter-specific hybrids

محل انتشار:

مجله به نژادی محصولات, دوره 3, شماره 1 (سال: 1392)

تعداد صفحات اصل مقاله: 6

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خلاصه مقاله:

This study was carried out to investigate the important characteristics in some cultivars/genotypes of Persianwalnut (*Juglans regia* L.), black walnut (*J. nigra* L.), and walnut inter-specific hybrids: Paradox (*J. hindsii* × *J. regia*) and Royal (*J. hindsii* × *J. nigra*) in Kamalshahr Research Station in Karaj in ۲۰۱۱-۲۰۱۲. In the study, vegetative vigor was evaluated based on trunk cross-sectional area (TCSA), canopy diameter, nut related traits such as nut weight and size (thickness, width, height), kernel weight, kernel percentage, kernel color, ease of removal, shell thickness, and oil percent. Results showed very high diversity among the species and interspecific hybrids, so that Paradox with ۵۰۶ cm^۲ had the highest TCSA, which was ۲۱۴% more than that of *J. nigra*. Based on canopy diameter, Paradox showed the most vigorous growth, with an average of ۷.۹۵ m, while *J. regia* with ۵.۰۵ had about ۳۷% less vigor relative to Paradox. Regarding nut height, it varied from ۳.۰۲ cm to ۱.۴۸ cm in *J. regia* and Paradox, respectively. Nut weight varied from ۱۱.۵ g in *J. nigra* to ۳.۶۲ g in Paradox. Principal coordinates (PCO) and cluster analysis were used to classify walnut cultivars/genotypes and interspecific hybrids. According to multivariate statistical analysis, the cultivars/genotypes were divided into three groups: black walnut, interspecific hybrids, and Persian walnut.

کلمات کلیدی:

Juglans species, Morphological characteristics, walnut

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