Abstract

In order to study drought tolerance masses watermelon on the yield components as well as recognition factor analysis 95-94 field experiment was conducted at Agricultural Research Station Zehak experiment in a randomized complete block design with three replications for 20 people was Pydah . Analysis of variance showed significant differences for all traits at one percent and percent change can be seen. Average performance in normal tests 24.3 ha and for drought experiment was 8.2 tons per hectare The correlation coefficients between the traits in populations of watermelon for the normal tests indicate that the mass (20) with the correlation function +0.46 and to test the correlation land mass is 21 by 214.0 performance**.** The results of regression analysis, variable thickness of the meat, fruit length, fruit width, number of fruits per plant is normal for variable thickness of the meat, fruit length, fruit width, number of fruits per plant and the number of branches and dependent variables gives performance , The remaining effects of the normal attributes for 0.368 and 0.352respectively for drought experiment. Pierre cluster analysis traits as normal in five groups in tests , Which can be used in drought conditions and water restrictions from landraces adapted to weather conditions and drought-tolerant and mass numbers 10 and 14 should be used.

Key word: watermelon, normal, stress, multivariate analysis

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Multivariate analysis masses watermelon yield in normal and stress conditions

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