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Investigation of Genotype X Planting Time Interaction by Using Ammi Statistical Model in Potatoes

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Abstract: In studies on potato planting time, the main effects of genotype and planting time were determined by variance analysis and are discussed. However, the main specific causes of interaction were not demonstrated clearly. Five potato genotypes (Resy, 81028/1, Sultan, Granola and Yaylakizi) were planted on six different dates (January 30, February 10, February 20, February 28, March 10 and March 20) in three different years (1993, 1994 and 1995). Tuber yield data were analysed with the AMMI (Additive Main Effects and Multiplicative Interaction) statistical model. The results showed that the January 30, February 10 and March 20 planting times had similar yield ranges. Granola and Resy gave low, Sultan and 81028/1 gave high and Yaylakizi gave moderate yields. The results clearly identify the main effects of the specific genotype and planting time, causing the genotype x planting interaction.

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