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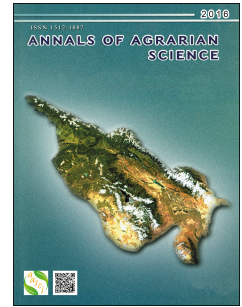
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## Performance of fullsibs in different maize varieties for maturity and grain yield

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### Abstract

The present research was conducted at the experimental plots of Agricultural Research Station, Seen Lasht, Chitral-Pakistan. Eight, thirty and seventeen fullsibs in three different maize varieties were laid out in Randomized Complete Block Design (RCBD) with replicate thrice in three rows of three meter length. Analysis of variance showed that Azam was highly significant for days to anthesis, days to silking and grain yield. Similarly, Pahari and Iqbal were highly significant for days to anthesis, days to silking, days to maturity and grain yield. Minimum (57 days, 59 days, 2 days and 94 days) days to anthesis, days to silking, anthesis to silking interval (ASI) and days to maturity were recorded by Azam-3, Azam-5, Azam-1 and Azam-4 while maximum (4.3700Kg/plot) grain yield were recorded by Azam-6. Minimum days to anthesis (57 days), days to silking (60 days), anthesis to silking interval (ASI) (2 days) and days to maturity (93 days) were recorded by Pahari-4, Pahari-3, Pahari-1 and Pahari-27 while maximum (4.84Kg/plot) were observed by Pahari-14. Days to anthesis, days to silking, anthesis to silking interval (ASI), days to maturity and grain yield of Iqbal-8 (57 days), Iqbal-2 (60 days), Iqbal-2 (2 days) and Iqbal-1 (94 days) were minimum while grain yield of Iqbal-17 was maximum (3.1713 Kg/plot). Correlation of Azam showed that days to silking with days to anthesis, days to maturity with days to anthesis and days to silking were highly significant while days to maturity with anthesis to silking interval (ASI) were significant. Correlations of Pahari showed that days to silking with days to anthesis, days to maturity with days to anthesis and days to silking, grain yield with maturity were highly significant but grain yield with days to anthesis and days to silking was significant. Correlation analysis of Iqbal showed that days to silking with days to anthesis, days to maturity with days to anthesis and days to silking were highly significant while anthesis to silking interval (ASI) with days to silking and days to maturity with anthesis to silking interval were significant. This was concluded that Azam shall be included in future maize breeding program because of their short duration between days to silking and days to maturity.

**Keywords:** Maize, Fullsibs, Anthesis, Silking, Grain Yield

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### 1. Introduction

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