

## عنوان مقاله:

Investigation and comparison of sweet corn hybrids yield after rice harvesting

## محل انتشار:

ماهنامه پیشرفت های کشاورزی، دوره 5، شماره 1 (سال: 1394)

تعداد صفحات اصل مقاله: 6

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## خلاصه مقاله:

In order to investigation and compare of kernel and other traits of eight sweet corn hybrids with conventional sweet corn (SC403) an experiment was conducted in randomized complete block design at the Agricultural and Natural Resources Research Center of Mazandran, Qarakheil, Qaemshahr, Iran in 2007-2009 (three years) after rice harvesting (August). Each hybrid was planted in four rows. Each row included 30 plants at 20 cm distance from each others. Harvesting was done in two middle rows. After harvesting, kernel yield for each hybrid determined. analysis of variance and mean comparison were done. The result in three years showed that higher kernel yields were resulted from hybrids BASIN and POWER HOUSE with 7.66 and 7.31 t/ha respectively. these hybrids had higher yield than the check (SC403) with 6.11 t/ha and there was significant difference at 5% level between check and these hybrids according to Duncan's Multiple Range Test. EX08716636 Had higher kernel yield than the check (SC403) but this hybrid had not significant difference at 5% level. Hybrids CHALLENGER with 5.34 t/ha, HARVEST GOLD with 5.16 t/h, OBSSESSION with 5.01 t/h, CHASE with 4/26 t/h and TEMPTATION with 3.8 t/h had lower kernel yields than check. HARVEST GOLD, POWER HOUSE and BASIN had Higher forage yield with 50.99, 50.58 and 48.71 t/ha respectively but these hybrids had not significant difference at 5% level in compare of SC403 with 49.29 t/ha forage yield. Correlation between measuremented traits was showed that kernel yield have positive correlation with forage yield (%76), kernel row number (%60), kernel in row (%56) and ear diameter (%66). Kernel yield had negative correlation with cob diameter (-%56). Forage yield also had positive correlation with plant height (%67), ear height(%81), kernel row number (%55), kernel in row (%54) and ear diameter (%70). Forage yield had negative correlation with cob diameter (-%55).

## کلمات کلیدی:

Forage Kernel yield Second crop Sweet corn

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