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<p>Abstract</p> <p>This experiment was conducted to evaluate the effects of different sowing date and sowing patterns on yield of baby corn SC 303 at 2012 at Research Farm of University of Agricultural Sciences and Natural Resources Ramin Khuzestan. The experimental design was split split plot based on randomized complete block with three replications. Sowing date at three levels including February 19, March 6 and March 21 and plant density at two levels including 90000 and 75000 plants per hectare and inter row space at two levels including 75 and 50 cm. The results indicated that there is significant difference among different levels of sowing date regarding complete ear weight, shelled ear weight, dried ear weight, shelled dried ear weight, non-standard ear number, standard ear number, plant dry weight, ear length, ear diameter, stem height, number of leaves above the ear, green ear yield (baby corn), green forage yield and dry matter yield. In addition difference among different levels of plant density regarding complete ear weight, shelled ear weight, dried ear weight, shelled dried ear weight, non-standard ear number, standard ear number, plant dry weight, ear length, ear diameter, stem height, number of leaves above the ear, green ear yield (baby corn), green forage yield and dry matter yield was significant. Difference among different levels of planting pattern regarding dried ear weight, standard ear number, non-standard ear number, green ear weight was significant. The interaction among plant density and sowing date on dried ear weight, non-standard ear number, green forage yield and dried forage yield was significant. The interaction among sowing date and planting pattern on dried ear weight and non-standard ear number was significant. The interaction among plant density and planting pattern on dried ear weight was significant. The greatest yield of baby corn among different sowing date, plant densities and planting pattern was observed at March 21, 75000 plants per hectare and 50 cm, respectively.</p> <p>Keywords: Baby corn, Sowing date, Planting pattern, Yield</p>	