

فصلنامه «کشاورزی پویا» جلد ۶ / شماره ۱ / بهار ۱۳۸۸

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|----------------------------|----------------------|------------|-----------|-----------|-------------|-------------|-------------|
| 95000 pl. ha | Day GDD | 7 58 | 54 575 | 70 753 | 117 1319 | 126 1421 | 131 1492 |
| 11500 0 pl. ha | Day GDD | 7 58 | 54 575 | 70 753 | 117 1319 | 126 1421 | 131 1492 |
| 75000 pl. ha | Day GDD | 7 92 | 47 543 | 64 744 | 110 1345 | 117 1420 | 121 1475 |
| 95000 pl. ha | Day GDD | 7 92 | 47 543 | 64 744 | 110 1345 | 117 1420 | 121 1475 |
| Planting date of 5 June | 11500 0 pl. ha | Day GDD | 7 92 | 47 543 | 64 744 | 110 1345 | 117 1420 |
| | | | | | | | 121 1475 |

جدول ۲- میانگین خصوصیات مورفولوژیک گیاه ذرت در تاریخ و تراکم های کاشت مختلف

Table 2. Morphological characteristics of corn at different planting dates and different densities

| Treatments | Plant height (cm) | Ear length (cm) | Stem base diameter (cm) | Number of grain rows on the ear | Ear diameter (cm) | Grain length (mm) | Wood ear length (cm) | Ear axle weight (cm) | Distance of ear from the ground (cm) | Number of leaves per plant |
|---------------|-------------------|-----------------|-------------------------|---------------------------------|-------------------|-------------------|----------------------|----------------------|--------------------------------------|----------------------------|
| Planting date | | | | | | | | | | |
| 4 May | 198.5 a | 22.19 a | a ^{۲/۳۲۳} | 17.80 a | 3.507 a | 9.512 a | 8.222 a | 40.87 a | 105 a | 29.24 a |
| 19 May | 194.6 a | 22.13 a | a ^{۲/۲۶۰} | 16.30 a | 2.791 b | 8.508 a | 7.219 a | 29.47 b | 102 a | 28.65 b |
| 5 June | 182.3 b | 18.67 b | b ^{۱/۶۵۶} | 13.90 b | 1.900 c | 6.062 b | 4.504 b | 16.76 c | 91.47 b | 25.86 c |
| Plant density | | | | | | | | | | |
| 75000 | 191.8 b | 20.60 b | a ^{۱/۹۶۶} | 15.93 a | 2.662 b | 7.967 b | 6.589 b | 28.97 a | 99.47 a | 27.86 a |
| 95000 | 191.8 b | 20.67 ab | a ^{۲/۱۹۱} | 16.00 a | 2.737 a | 8.030 a | 6.648 ab | 29.03 a | 99.54 a | 27.92 a |
| 115000 | 191.9 a | 20.73 a | a ^{۲/۰۸۲} | 16.07 a | 2.799 a | 8.084 a | 6.709 a | 29.10 a | 99.60 a | 27.97 a |

Values followed by the same letter within the same columns do not differ significantly at P = 5% according to DMRT.

19. Bryant, H. T., and R. E. Blaster. 1968. Plant constituents of an early and late corn hybrid as affected by planting date and plant population. *Agronomy Journal*, 60: 557-559.
20. Farnham, D. E. 2001. Row spacing, plant density and hybrid effects on corn grain yield and moisture. *Agronomy Journal*, 93: 1049-1053.
21. Graybill, J. S., W. J. Cox, and D. J. Otis. 1991. Yield and Quality of forage maize as influenced by hybrid, planting date and plant density, *Agronomy Journal*, 83: 559-564.
22. Hunter, F. B. 1980. Increased leaf area and yield of maize in short season areas. *Crop Science*, 20: 571-574.
23. Nelson, D. W., and L. E. Summers. 1973. Determination of corn growing conventional and equidistant plant spacing. *Crop Science*, 28: 254-258.
24. Norwood, C. A. 2001. Dry land corn in western Kansas: effects of hybrid maturity. Planting date and plant population. *Agronomy Journal*, 93: 540-547.
25. Pearce, R. B., R. H. Brown, and R. E. Blaser. 1966. Relationship between leaf area index interception and net photosynthesis in orchardgrass. *Crop Science*, 1996: 553-556.
26. Shibles, R. M., and C. R. Weber. 1966. Interception of solar radiation and dry matter production by various soybean planting patterns. *Crop Science*, 6: 55-59.
27. Tetio-kagho, F., and F. P. Gardner. 1988. Responses of maize to plant population density. I: Cover canopy development light relationships, and vegetative growth. *Agronomy Journal*, 80: 930-935.
28. Tsay, J. S., S. Fukai, and G. L. Wilson. 1988. Effect of relative sowing time of soybean on growth and yield of cassava in cassava/soybean intercropping. *Field Crops Research*, 19: 227-239.
29. Vanaverbeke, W. and J. N. Mararis. 1992. Maize response to plant population and soil water supply: I. Yield of grain and total aboveground biomass. *African Journal Plant and Soil*, 9: 186-192.
30. Williams, W. A., R. S. Loomis, W. G. Dancan, W. G. Dorratrn, and A. Naneza. 1988. Canopy architecture at various population densities and the growth and grain yield of corn. *Crop Science*, 8: 303-309.