

## **PERFORMANCE OF DATE PLAM CULTIVARS UNDER SEMI-ARID CONDITIONS OF HISAR, INDIA.**

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The studies were conducted on 22 years old date palm trees (CVs. Hillawi, Shamran, Jaglool, Khadrawy, Medjool and Zahidi) during 1999-2000. Hisar is situated in sub tropics at 29° 10 North latitude and 75° 46' East longitude. The summer is hot and dry but fruit maturity and ripening coincide with the rainy season. Plant height was found maximum in Jaglool (12.60 m) followed by Medjool (12.30 m) and minimum in Khadrawy (5.50 m) whereas, stem girth was maximum in Medjool (174 cm) and minimum in Zahidi (110.5 cm). Spathe opening was earliest in Hillawi (26 Feb.) followed by Shamran and Medjool (4 Mar.) whereas, Khadrawy and Jaglool flowered late (28 Mar.). harvesting of fruits (doka/khalal stage) was earliest in Medjool (22 July) followed by Zahidi (23 July,) Hillawi (1 Aug.), Jaglool, Khadrawy (9 Aug.) and Shamran (30 Aug.). The fruit weight was maximum in Medjool (13.10 g) and minimum in Zahidi (7.45 g). The maximum TSS (33.0) was in Shamran followed by Hillawi (28.0) and minimum in Jaglool (20.0).