

study and yield comparison of new Watermelon cultivars in Ahwaz

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Considering importance of watermelon in IRAN and specially in Khuzestan province and because of high yield and consumption recognition of new high yielded and quality could result in increasment of farmers benefit and also it's export to other contries. in order to recognize the cultivars with high yield this research conducted in a randomized complate block design with 4 replications in 1998-1999 on nine watermelon cultivars.

Studied cultivars were as fallows.

- 1- Charlestongry ekstera (check)
- 2- Krimson souit A.U
- 3- King charles
- 4- Ariba
- 5- Charly
- 6- Suger babay P.S
- 7- Favorite
- 8- Krimson souit standard
- 9- Karmen

Each treatment including plots with two caltivation rows with 5 meters. Long and the distance between rows was 3 meters, distance between plants on rows were 50 centimeters. During this experiment dates of irrigation, flowering initiation, ripening, quality (percentage of sugar), color tissue, skin diameter, fruit dimension (length and width) and yield were recorded.

Analysis of variance of datas was done and the means were compared with duncan's multiple range test.

Results showed King charles sugar baby P.S, favorite, cultivars for their yield per unit area and also quality (sugar percentage) were better than others in comparison with check and placed in a seperate group. But favorit cultivar with mean yield 18710 kig/hec and 4.35% sugar because of low skin diameter was better.