

STUDY ON POLLINATION AND COMPATIBILITY AND DETERMINING OF BEST POLLINIZER FOR CULTIVAR THE OLIVE ZARD CV.

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This research was carried out in the Olive Research Station at Roodbar during three cosecutive years(1997_1999)in randomized complete block design (RCBD)with 4 replications.The pollinizer treatments were open and self pollination,Lechino,Belaidi,Roghani Mari and Manzanillo cultivars. After emascolation flowers were hand pollinated with pollen of treatments.Index of fertility, compatibility,initial and final fruit set,and fruit weigth investigated.The data obtained in experiment were classified through Duncan procedure.Statistical analysis showed that ther were significant differences at 1% and 5% levels among the olive cultivars pollinizers.The cultivar of zard zeiton is a partial self_incompatible. The index of self incompatibility had changes in differnt years. With attention to final fruit set ,the best pollinizer for olive of "Zard zeiton"are cultivars of"Lechino"(7.26%),self pollination (4.45%), "Mari" (4.38%), "Manzanillo" (2.26%), "Belidi" (1.19%) and "Roghani" (0.83%) respectively.Results showed that the means of fruit weight in treatments of open pollination ,Lechino,Belidi,Manzanillo,Zard zeiton,Mari and Roghani were 3.93,3.65,2.87,2.8,2.48,2.1,1.41gr.

optimum date of harvesting determined at the end of November. In cultivar of Rogani fruit colour was changed from green to violet at the September and complete black at first the of November. Changes of oil percent had a correlation with fruit weight. Optimum date of harvesting is in early of November. At this time the oil percent of Dry matter is 48.7% .