

The Impact of Harvest Time, the Stratification and Sulfuric Acid on Seed Germination of Three Varieties of Olives (*Olea europaea*) in Gilan Province

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There are two problems (physiological and mechanical dormancy) for germination of Olive (*Olea europaea* L.). it's necessary to eliminate both of these two dormancies for generative was done to obtain the suitable seed lings for propagation of this tree. There fore , this study was done to obtain the suitable seedlings for production of compatible rootstocks with climatic conditions of each zone vsing mary ,.....varieties prepared in Rudbar , Gilan . A factorial experiment in a completciy randomized design was conducted . treatments included: harvest time (completely ripening of seed and completely ripening of fruit), stratification (o, 500 and 1000 hours). experiments were done in a greenhouse located in a greenhouse located in kishestan , pirbazr , Rasht , Gilan. Results showed that Mari cultivar had the highest germination strength with 9 hours acid and 1000 hours , stratification, Also, the combined effect of 9 hours acid and 1000 hours of strain reduced time duration to germination and increased the rate of germination: germination, percentage, germination average, and fresh weight and physical index of plantlets increased of plants. The second stage of harvesting (after full fruiting) also had a positive effect on seed traits due to increased seed storage.

Keywords : Keywords: germination, stratification, seed, olive

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