

**The study on seed dormancy of wild oats in different
burial depths of soil**

H. SALIMI and J. ANGADJI

Plant pests and Diseases Research Institute

ABSTRACT

Dormancy and viability of wild oat seeds (*Avena ludoviciana*) buried in different depths of soil were studied after 2,6 and 12 months.

The experiment was carried out in a randomized complete design. Statistical calculations on collected data were carried out by Duncan's test at 0.05 level. *Arcsin* of *data* used in conclusions. (the numbers in paranthesis in the bables).

This investigation revealed the number of dormant seeds in surface of soil were more than those in the deeper soil layers. This was attributed to unfavorable conditions for seed germination at surface of soil. Seed dormancy was distinctly decreased at depths of 5 and 15 cm. The percentage of dormant seeds at depth of 30 cm was more than 5 and 15 cm. The percentage of viable seeds was decreased at surface of soil because of unfavorable conditions. It was not significantly different among the other soil depths. Percentage of dormant seed in lower seeds in spikelet after 2,6 and 12 months were 15.25% , 8% and 2.88% resepectively percentage of dormant seed in upper seeds in spikelet after 2,6 and 12 months were 90. 5%, 70.75% and 37.5% respectively. According to this investigation was reveald that dormancy period in upper seeds was longer and deeper than lower seeds.

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Address of the authors: H., Salimi and Dr. J., Angadji, Plant Pests and Diseases Research Institute, P. O. Box 1454, 19395 Tehran.