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A study on biology of *Sitophilus oryzae* (*Coleoptera: Curculionidae)* on five local rice cultivars of Iranian Mazandaran province.

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ABSTRACT

One of the most important pests of stored wheat and rice is a curculionid named rice weevil *Sitophilus oryzae*. Study on biology of this pest on 5 local rice cultivar in Mzandaran Province (Tarom, Neda, Nemat, Fajr and Khazar) was performed in 3 treatments. The experiment was carried out under 28 $\pm$ 1 ^{oc} and R.H. 75 $\pm$ 5% condition.
Separated bottles were provided for each cultivars and 30 gr. of rice grains poured in each bottles. In each bottle 35 one day old males & females were released and duration of egg, larval, pupal and adult stages were determined.
This study was performed in completely randomized design with three replications and means comparison was done using Dunncan multiple rarge test.
The results showed that, there were no significant difference between embryonic growth on different rice cultivars.
The longest larval stage period was on Fajr and Khazar cultivars, the longest pupal stage period was on Fajr and the shortest pupal stage period was on Neda, Nemat and Local Tarom cultivars. The longest period of insect staying inside nidus and complete life cycle were found on Fajr cultivar.
Key words: Rice weevil, *Sitophilus oryzae*, Behavioral biology, Incubation period of eggs, Pre- emerged adult period.

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