

## Faunal investigation of stored pests in Gonbad & Minoodasht

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### ABSTRACT

For collection and identification of store pest products, an investigation have been conducted in Gonbad and Minoodasht during a weekly and monthly interval.

Stores and non-state stores of agricultural products such as flour firms, spaghetti, etc. were collected by using common methods. Specimens were sort out according their morphological characters at insect family level. Then with other keys of identification upto species level also determined.

During two- year-sampling, 1433 inspections were conducted, which 960 sampling carried out in Gonbad while rest of them take place in Minoodasht. 24 species were recorded into 14 families of beetels. Four species from three families of the moths, one species from cockroaches, bristletails and psocoids also collected in this survey.

In total, *Rhyopertha dominica*, *Sitophilus granarius* and *Tribolium confusum* observed with high percent of abundance, but according their site distribution and damages of insect pests were found differ from each other.

**Key words:** Fauna, Store pests, Gonbad, Minoodasht, Iran

### Reference

- ANON, A., 1989. Insect pests of food crops of Africa, Madagascar and Mascarens (CAB Abstracts).
- BAGHERI ZONOUZ, A., 1987. Coleoptera pests on industrial crops, Vol., 1 Sepehr Publishing Co., 309 pp.
- BORROR, D. J.; C. A. TRIPHORN and N. F., JOHNSON, 1989. An introduction to the study of insects. Saunders. College Publishing, Florida, 910 pp.
- CABI CROP PROTECTION COMPENDIUM, 1997. CAB International CD

- ESMAEILI, M.; A. MIRKARIMI and P. AZMAYESHFARD, 1992. Agricultural Entomology. Tehran University Press, 552 pp.
- HAINES, C. P., 1991. Insects and Arachnids of Tropical Stored Products: Their biology identification (A training manual). Chatham ( United Kingdom). 256 pp.
- HODGGAT, S. H., 1997. Insects (collection and identification). Amir Kabir Publishing, 376 pp.
- MUNRO, J. W., 1966. Pests of Stored Products. The Rentokil Library. 234 pp.
- SEPASGOZARIAN, H., 1979. Storage pests of Iran and their control methods. Tehran University Press, 27 pp.
- SEPIDAR, A. A., 1986. Insecte of house and storage (identification and their control methods), 285 pp.
- YAO, M. C. and K. C., LO., 1992. Insect species and population densities in stored Japonica rice in Taiwan. Chinese Journal of Entomology, 12 (3): 161-169.

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