

A SURVEY ON THE DISTRIBUTION OF STORED GRAIN  
INSECTS IN THE PEOPLE'S REPUBLIC OF CHINA

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Located in the temperate and subtropical zones of Asia and with a vast territory and abundant natural resources, China has recorded a great many kinds of stored grain insects. Through the on-the-spot investigations of stored grain insects in 1974 and 1980 (the province of Taiwan not included and only one municipal grain store house included in Tibet), we found 89 kinds of stored grain insects altogether, in which there are 81 kinds of pests and 8 kinds of natural enemy insects. As a result, we've got a basic idea of stored grain insects in our country as follows:

The Kind and Distribution of Stored Grain Insects

See also the attached list. Out of 89 kinds of stored grain insects, there are 58 kinds of Coleoptera pests (65%), 15 kinds of Lepidoptera pests (17%), 8 kinds of Thysanura, Blattaria and Psocoptera pests (9%) and 8 kinds of natural enemy insects (9%).

On the whole, there exist fewer kinds of insects in the North than in the South, and in the grain store houses than in the mills. There are 41 kinds of stored grain pests found almost all over the country, most of which have also been discovered in the world, for example, Aphomia gularis Zeller, Ephestia cautella Walker, genus of Cryptolestes, Alphitobius diaperinus Panzer, Callosobruchus chinensis Linnaeus, Rhizopertha dominica Fabricius, Tenebroides mauritanicus Linnaeus, Sitophilus zeamais Motschulsky, Sitotroga cerealella Olivier, Typhaea stercorea Linnaeus, Tribolium castaneum Herbst, etc. (In Tibet, there have only been found Sitophilus zeamais Motschulsky, Ephestia cautella Walker and Attagenus piceus Olivier.)

There are 10 kinds of stored grain pests distributed in the areas north of the Yellow River, for example, Homalopsycha agglutinata Meyrick, Tribolium confusum Jacquelin du Val, Tenebrio molitor Linnaeus, etc. And 5 kinds of them, namely, Ephestia figulilella Gregson, Sitophilus granarius Linnaeus, Tribolium madens Charpentier, Megatoma graeseri Reitter and Dermestes lardarius Linnaeus, are only discovered in one or two provinces.

There are 11 kinds of stored grain pests distributed in the areas south of the Yellow River, for example, Ephestia elutella Hubner, genus of Palorus, genus of Bruchus, Lasioderma serricorne Fabricius, Araecerus fasciculatus Degeer, etc.

There are 14 kinds of stored grain pests distributed in the areas south of the Changjiang River, for example, genus of Periplaneta, Sitophilus oryzae Linnaeus, etc. And half of them are limited in the southern-most provinces of Guangdong, Guangxi and Yunnan only, for example, Corcyra cephalonica Stainton, Coelopalus foveicollis Blair, Gnathocerus cornutus Fabricius, etc.