Damage Analysis and Ecological Characters on the Red Flour Beetle, *Tribolium castaneum* (Coleoptera; Tenebrionidae)

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Red flour beetle has three generation a year. Its peak period appeared in from mid-May to early-June, mid to late-July and early to late-September. But the maximum peak period was the third generation

Morphological characters of red flour beetle were 0.6±0.1, 5.6±0.5, 3.8±0.2 mm length with eggs, larva and pupa, respectively. Also female and male of adults were 4.0±0.1, 3.8±0.1 mm. Each rearing periods was 6.0±1, 34±7.0, 9.0±3.0, 45±10, 65±15 days with eggs, larva, papa and adults of female and male. Overwintering adults were 210±15, 332±15 days with female and male.

The host plants of red flour beetle were surveyed of 10 cereals, 1 bean, 3 farina, 7 processed goods, 2 herbs. Especially, the degree of feeding preference showed high in brown rice, barley and corn flour.

Damage degrees on red flour beetle showed brown rice > polished rice > rough rice in rice. In barley, barley > pressed barley ≧ polished barley > naked barley. Damaged parts were showed by embryo parts > awn parts > back and front parts in brown rice.