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## 2-1. Seasonal Occurrence of The Rice Skipper, *Parnara guttata* Bremer et Grey (Lepidoptera ; Hesperidae) in Rice, Chungnam Province

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The rice skipper, *Parnara guttata* is one of the major pests of rice in China(Chiang 1977). Outbreaks of the pest also often occur in the paddy fields of Korea as well as central and western Japan. *P. guttata* is the most dominant species among the rice skippers in Japan and China(Masuzawa *et al.* 1983).

In the present study, The rate of occurrence by region and by month in paddy fields during the rice growing seasons(from June to September) in chungnam province were investigated. The rate of mortality of immature stages are also investigated.

Initial population of *P. guttata* was observed in late July. In early August and late september, the peak abundance of *P. guttata* was 55.6% and 60.0% respectively. The rate of occurrence of *P. guttata* on nine districts(Gongju, Nonsan, Seosan, Seocheon, Boryeong, Yongi, Cheongyang, Buyeo, Daejeon) in Chungnam province was observed that the rates of occurrence in Yongi and Daejeon were the highest at 60.7% and 60.9% respectively. The rate of occurrence of *P. guttata* was higher the inland area than the coastal area. The rate of mortality of *P. guttata* was 75.7% in mid August. The mortality fators were observed in Hymenoptera, Diptera, Colleoptera and unknown fators.

Key Words - Seasonal occurrence, Rice skipper, *Parnara guttata*