

## Effects of Nursery-tray and Field Application of Silicate Slag on Blast Disease and Yield of Rice

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### Summary

The efficacy of nursery-tray and field application of silicate slag for the control of leaf and panicle blast of rice were studied during the first crop season of 1989.

Silicate slag was applied at rates of 20, 40, 60, 80 and 100g/tray and 3t/ha in the field. A significant decrease in disease severity of leaf blast was observed in the plots by application of silicate slag. Application of silicate slag directly in the field at 3t/ha rate was more effective than the applications in the nursery-tray. Application of silicate slag had no effect on disease incidence of panicle blast of rice. All rates of silicate slag increased yields of rice. The increase in rice yields ranged from 1.4% to 20.3% for Tainung 67 and from 2.4% to 25% for Hsinchu 64 by nursery-tray application. However, increase of 39.9% for Tainung 67 and 27.4% for Hsinchu 64 was observed by field applications.

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