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[TOP](#) > [Available Issues](#) > [Table of Contents](#) > [Abstract](#)

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[\[PDF \(603K\)\]](#) [\[References\]](#)**Development of sheath blight caused by *Thanatephorus cucumeris* on no-till and non-paddy rice plants treated with compound fertilizers.**T. MOTOBAYASHI¹⁾ and S. SHIGITANI¹⁾

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ABSTRACT

Epidemics of sheath blight caused by *Thanatephorus cucumeris*, on no-till and non-paddy rice plants were compared with those on conventionally tilled rice plants in paddy fields treated with compound fertilizers from 1999 to 2001. The no-till rice plants grew more slowly, and produced fewer tillers than did conventional-till rice plants during early growth. Consequently, the length of time for sclerotia of the pathogen to attach to rice plants was delayed on no-till plants. The no-till rice plants had less primary infection by *T. cucumeris* than did conventional-till plants, and disease development also tended to be suppressed.

Key words: *Thanatephorus cucumeris*, rice plants, no-till cultivation, disease development

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