Title Effects of drying on head rice yield using fluidization technique

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Abstract

Experimental results of fluidized bed paddy drying using high inlet air temperatures (140 and 150 degree C) showed that head rice yield could be increased to a maximum value at a range of paddy final moisture contents of 19 to 22% wet-basis. In case of reducing moisture content of paddy to lower than 19% wet-basis, head rice yield of tempered paddy was higher than that of no-tempered one. Initial moisture contents of paddy that could increase head rice yield were in a range of 23 to 31% wet-basis. As initial moisture content increased head rice yield increased. Whiteness of dried paddy was mostly accepted. However, if tempering temperature was higher than 60 degree C, it may cause the problems for trade.