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DETERMINATION OF TERMINAL RESIDUES OF ISOPROTURON IN SOIL AND WHEAT

Neelam Sharma

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ABSTRACT : A field experiment was conducted at the Experimental farm of Department of Agronomy, CSKHPKV, Palampur, during Rabi 2003-04 (Nov-May) to evaluate the residues of isoproturon in post harvest soils, wheat grain and wheat straw samples. Isoproturon was applied as post emergence treatment at three different doses *viz.* 1.5kg/ha, 2.0kg/ha and 2.5kg/ha. The collected samples of isoproturon applied soils, wheat straw and grain were processed and analysed in laboratory by spectrophotometric method. A calibration curve plotted between isoproturon concentration and absorbance at 555nm followed a perfect linearity. In soil, plant and wheat grain samples, the per cent recovery ranged from 85.45 to 90.27 per cent, 83.61 to 88.81 per cent and 84.54 to 89.18 per cent, respectively. Isoproturon residues were non detectable in post harvest soil, wheat plant and wheat grain.

Key Words: Terminal residues, isoproturon, soil, wheat straw, wheat grain.