

Allelopathic potential of pasture legume species and selected winter crops on barnyard grass and rice

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Summary Allelopathic potential of pasture legumes and selected winter crops on barnyard grass and rice were investigated. Three annual pasture legume species (antas subclover, shaftal persian, and viper balansa clovers), canola and barley were used for the evaluation of potential allelopathic effects of residues on the germination and early growth of barnyard grass and rice varieties used for drill sown rice such

as YRK5, YRM70, Opus and Sherpa. Results of the study will be presented during the conference. This information on the use of pasture legume species and/or winter crops in rotation with rice may provide a non-chemical alternative method to manage barnyard grass in drill-sown rice.

Keywords Allelopathy, barnyard grass, pasture legumes.