

CONTROL TREATMENTS IN AGRICULTURAL EXPERIMENTS WITH SPLIT UNITS

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The paper deals with the experiments laid out in a complete or an incomplete split plot design in which one individual control treatment occurs in addition to the usual treatments. Usually control treatment has been treated as one specific factor level. Then of course the control treatment can be one of whole plot or subplot treatment. In this case there is no problem with performing randomization in the experiment. In this paper the control is free of both factor levels. This distinguishes this paper from others in the area considered. The new incomplete split plot designs with control fulfil all generally accepted methodological requirements, with special reference to the problems of randomization. Moreover, tools are described which allow checking of the general balance or efficiency of the design, as well as performance of inference from the experiments considered.