October 11, 2017

Weed Biology and Management Journal,

Dear Editor,

Please find the enclosed manuscript entitled “Additive Design: The Concept and Data Analysis,” by Maxwel C. Oliveira, Gustavo A.M. Pereira, Rodrigo Werle, and Stevan Z. Knezevic to be considered for publication as a mix of review and original research article. We are excited to share this manuscript that demonstrates the concepts of weed competition in additive design and data analysis using R software. This manuscript has not submitted to any other journal, and it is considered to publication in Weed Biology and Management Journal only.

In this paper, we report on an experiment in the greenhouse, a competition study of two weed species with corn. However, the main objective is to show statistically and biologically the best approach for interpretation of data analysis. We also provided a supplemental file showing how to proceed with statistical analysis of competition studies in additive design using in R, which is a free statistical software. We showed how to select the top model and how to interpret its parameters. We believe that this manuscript will be beneficial for all weed science community, including researchers, professors, technicians, and students.

Thanks for considering our manuscript for publication in Weed Biology and Management Journal.

Maxwel Coura Oliveira