

Interactive comment on “The dynamics of cultivation and floods in arable lands of central Argentina” by E. F. Viglizzo et al.

E. F. Viglizzo et al.

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Comment of Anonymous Referee 1:

It is not clear to me if the estimation procedure adopted to define the extend of flooded area is appropriate or not.

Reply from Jobbagy E G:

The extremely flat territory located at the SE of the lower Quinto River, focus of our study, does not behave as a conventional basin. Topographic watershed boundaries in this region are hard to define since no river or stream channels are evident and most surface water is represented by isolated ponds and lagoons. In periods of high rainfall the Quinto River may extend its landlocked basin beyond its natural end point in the

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lagoons of La Amarga, bringing water to our study area. With the exception of extreme flooding events, the water budget of the study area is explained by local rainfall inputs with negligible contributions coming from outside its boundaries.

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 5, 2319, 2008.

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