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Hydrology and Earth System Sciences Discussions

Interactive comment on "The hydrological responses of different land cover types in a re-vegetation catchment area of the Loess Plateau, China" *by* S. Wang et al.

Anonymous Referee #1

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General comments:

The study provides valuable information on soil moisture dynamics and implications for re-vegetation on Loess Plateau in semi-arid area in China, it is valuable for publish. However, the study period is too short(4 months) and only in rain season, it is very difficult to get the general rules on soil moisture in this area. Details comments:

1. In the section of "the study area", five typical land cover types were selected, and those five sites with similar slope position, aspect, and slope degree. In fact, the crop land is very different with other land use type, just as said by author, the corn site,

situated on check dam land in the bottom of valley. I suggest the author should add some detail information about the five different land cover, for example, forests cover ratio, density, etc.

2. Please give the detail explaination about infiltration depth (Zf) in the formal (1), and how to monitor it?

3. Why the daily water loess for corn was the most variable?

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 9, 5809, 2012.