

Hydrol. Earth Syst. Sci. Discuss., referee comment RC6  
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## Comment on hess-2022-96

Anonymous Referee #6

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Referee comment on "FarmCan: A Physical, Statistical, and Machine Learning Model to Forecast Crop Water Deficit at Farm Scales" by Sara Sadri et al., Hydrol. Earth Syst. Sci. Discuss., <https://doi.org/10.5194/hess-2022-96-RC6>, 2022

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1. What would happen with NI-prediction accuracies if RF is directly applied to model the P-NI relationship?
2. The authors may consider other NI-related climate variables in the modeling process.
3. Land use changed for the farms in the past years. Could FarmCan adapt to this?
4. A portion of samples in one day, one year, etc. are used to demonstrate the accuracy of FarmCan. Using all samples may avoid misestimation of the accuracy under temporal dynamics.
5. It would be much helpful for readers if the principle of FarmCan can be clarified as soon as possible.
6. Please carefully polish the manuscript. Some errors exist.