Supplementary information for the discussion

Discussion paper: “Prediction of dissolved reactive phosphorus losses from small agricultural catchments: calibration and validation of a parsimonious model” by C. Hahn et al.


<table>
<thead>
<tr>
<th>Model version</th>
<th>Lip</th>
<th>Stäg</th>
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Fig. SD1. Measured DRP concentrations versus simulated DRP concentrations of the Stägbach catchment in the year 2010.
Fig. SD2. Simulations (red lines, showing the 10% and 90% quantiles) using RRP Version 2sq versus measured (points) discharge from the Lippenrütbach catchment in 1999. The y-axes in figures on the right are in logarithmic scale (B) or focus on a certain part of the value range (D). Figure C shows the total range of the DRP loads measured and simulated on a non-log scale.

Fig. SD3. Simulations (lines, 10 \% and 90 \% quantiles) using RRP Version 2sq versus measured (points) discharge and DRP loss from the Stägbach catchment in 2010.
Fig. SD4. Residual analysis for the Stägbach catchment and model version 2 (year 2010)

Fig. SD5. Residual analysis for the Stägbach catchment and model version 2sq (year 2010)
Fig. SD6. Distribution of hydrological risk classes during the large event in June 2010, determined with model version 2sq for the Stägbach catchment.

Fig. SD7. DRP loss from manure in percentage of the total DRP loss, Lippenrütibach catchment, year 1999, Phosphorus-Model with h=0.003.
Fig. SD8. DRP loss from manure in percentage of the total DRP loss, Lippenrütibach catchment, year 1999, Phosphorus-Model with h=0.007

Fig. SD9. DRP loss from manure in percentage of the total DRP loss, Lippenrütibach catchment, year 1999, Phosphorus-Model with h=0.011