



Supplement of

Ensemble agroecosystem modeling enhances predictions of crop yields and soil carbon across the United States

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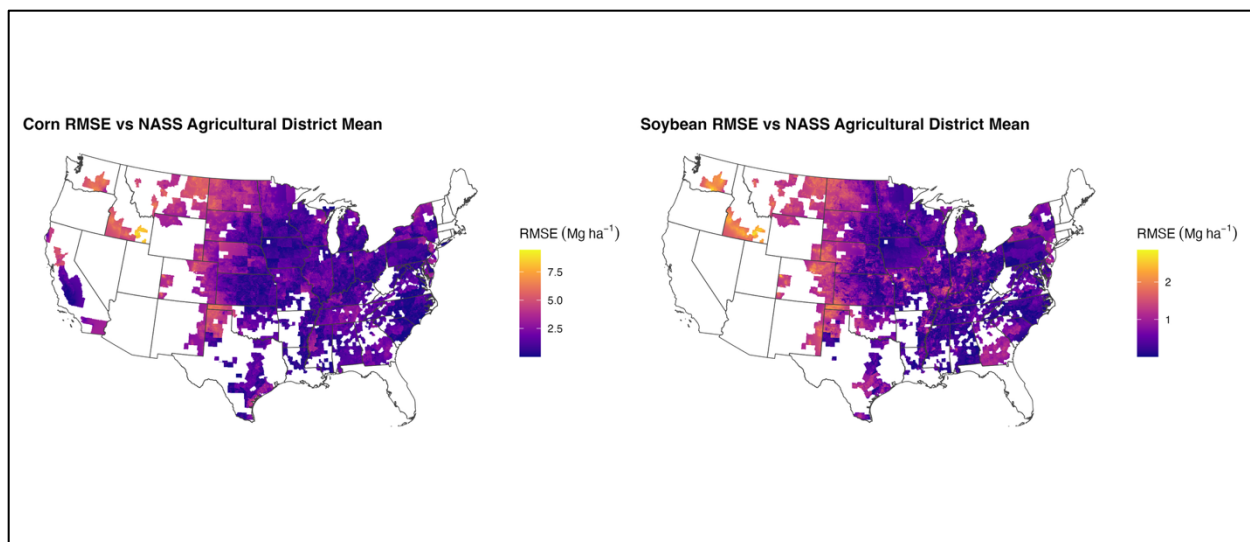


Figure S1. Spatial distribution of root mean square error (RMSE; Mg ha^{-1}) between simulated crop yields from the ensemble agroecosystem model and observed yields from NASS Agricultural District means across the conterminous United States (CONUS) for (a) corn and (b) soybean. RMSE is calculated by comparing grid-level model outputs with corresponding Agricultural District-level NASS yields, thereby reflecting both model error and within-district spatial variability.

RACA SOC RMSE Across CONUS

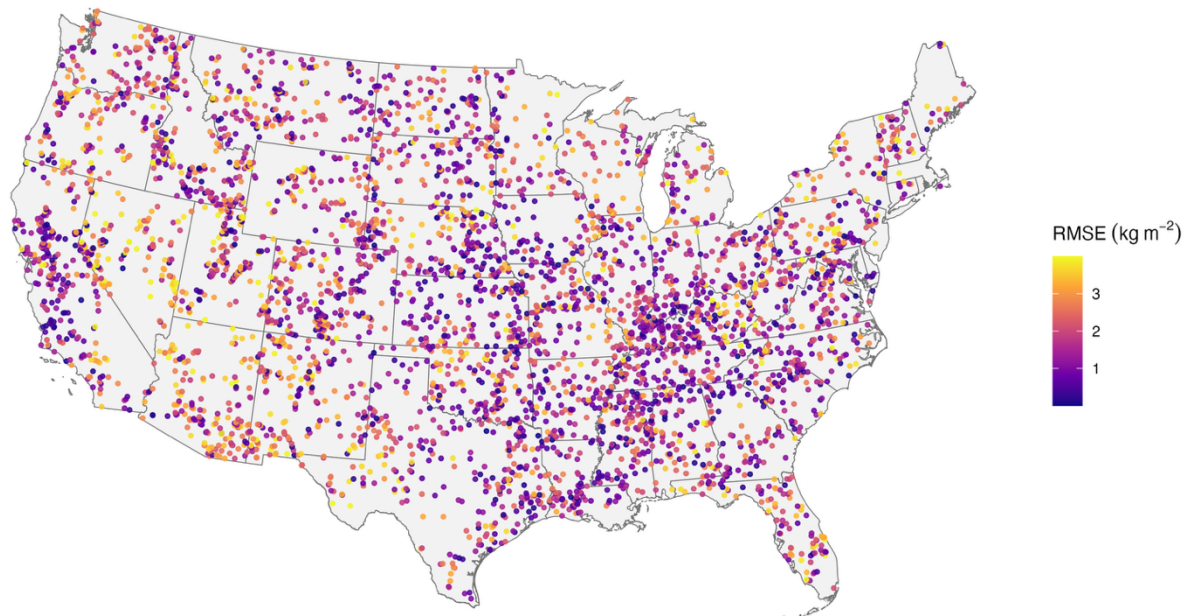


Figure S2. Spatial distribution of point-level root mean square error (RMSE; kg m^{-2}) between ensemble model-simulated soil organic carbon (SOC) and observed SOC from the Rapid Carbon Assessment (RACA) dataset across the conterminous United States (CONUS).