

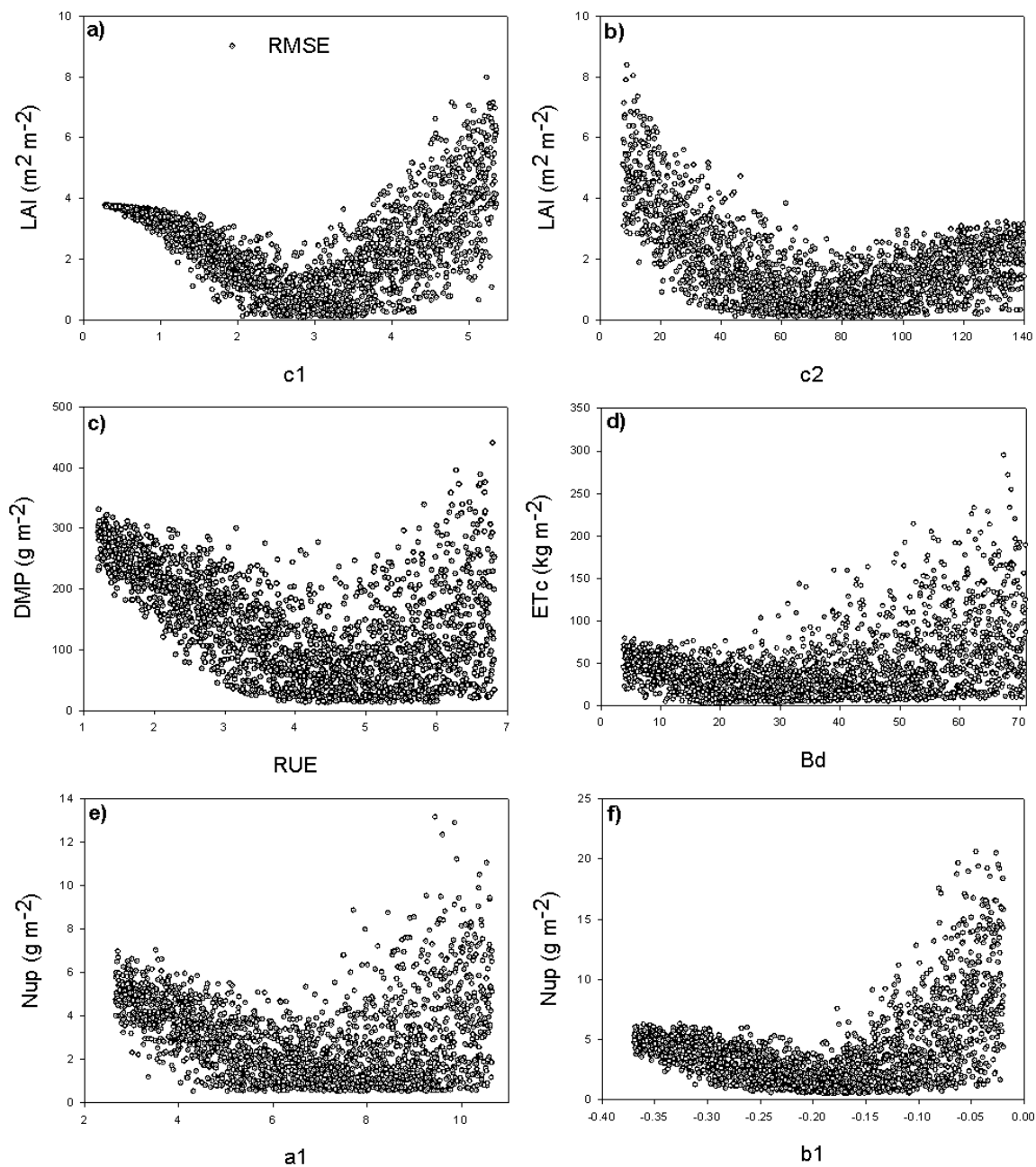


Figure S1. Scatter plots, generated from the GLUE method, between model parameter values and HORTSYST predicted variables. The X-axis represents parameter values, and the Y-axis shows the RMSE value of the predicted variables. LAI: leaf area index, DMP: dry matter production, ETc: crop transpiration, N_{up}: nitrogen uptake. Model parameters are described in Table 1.

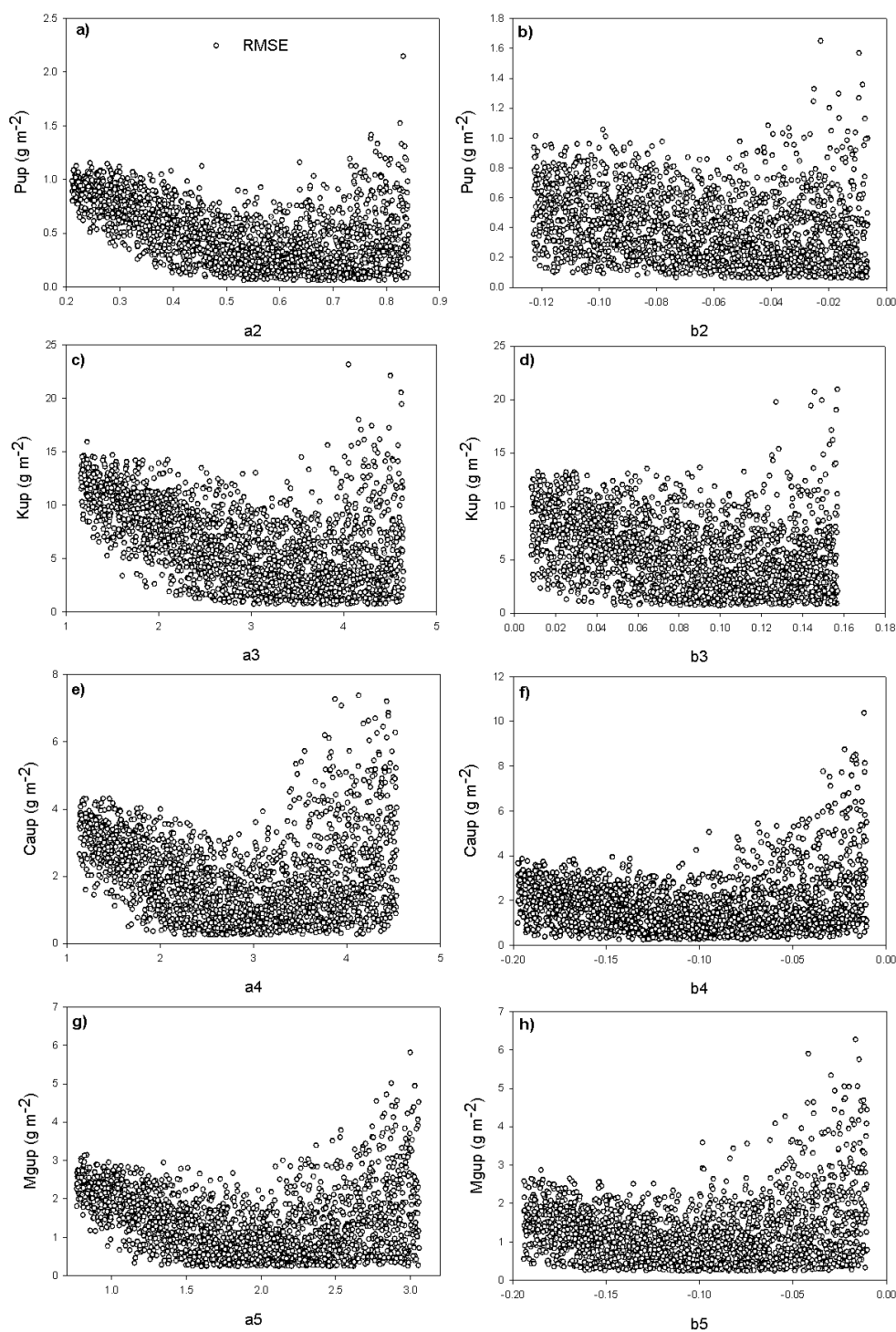


Figure S2. Scatter plots, generated from the GLUE method, between model parameter values and HORTSYST predicted variables. The X-axis represents parameter values, and the Y-axis shows the RMSE value of the predicted variables. P_{up} : phosphorus uptake, K_{up} : potassium uptake, Ca_{up} calcium uptake, Mg_{up} : magnesium uptake. Model parameters are described in Table 1.

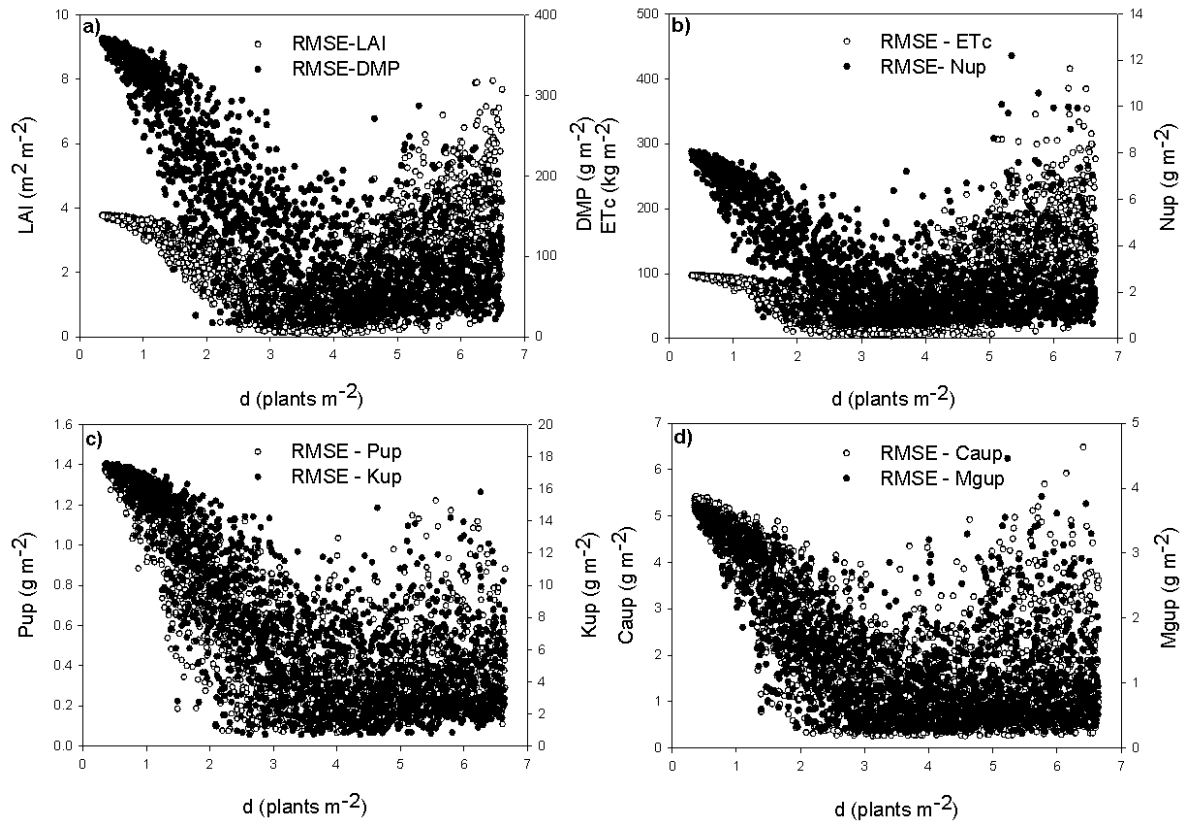


Figure S3. Scatter plots, generated from the GLUE method, between plant density parameter values and HORTSYST predicted variables. The X-axis represents parameter values, and the Y-axis shows the RMSE value of the predicted variables. LAI: leaf area index, DMP: dry matter production, ETc: crop transpiration, N_{up} : nitrogen uptake, P_{up} : phosphorus uptake, K_{up} : potassium uptake, Ca_{up} : calcium uptake, and Mg_{up} : magnesium uptake.