Supplementary Figures

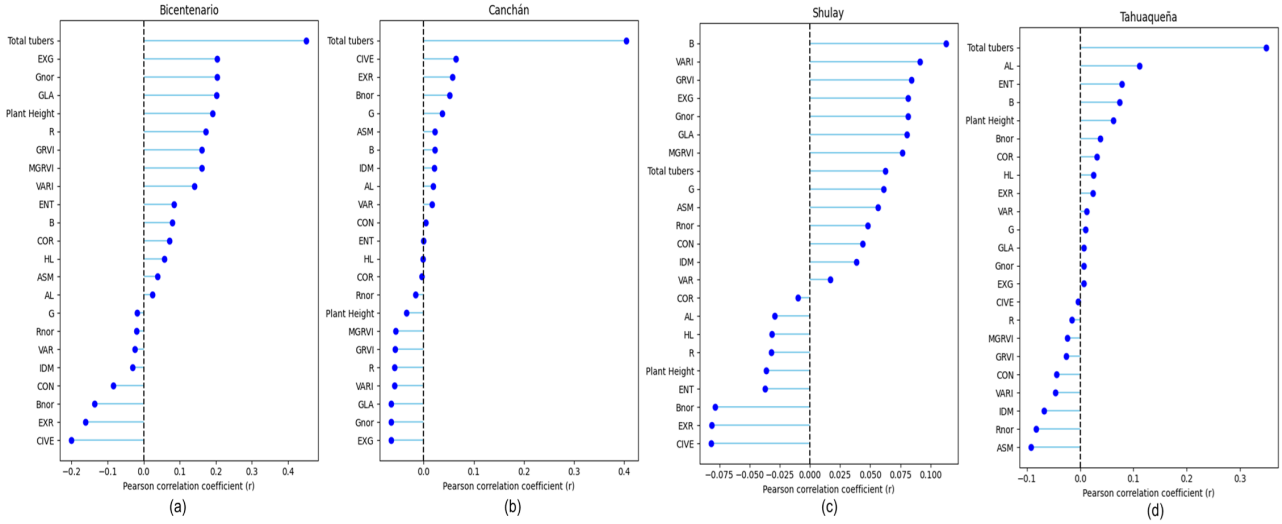

Figure S1. Pearson correlation coefficient (r) between yield with agronomic variables, color and textural index for the four potato varieties: (a) Bicentenario, (b) Canchan, (c) Shulay and (d) Tahuaqueña.

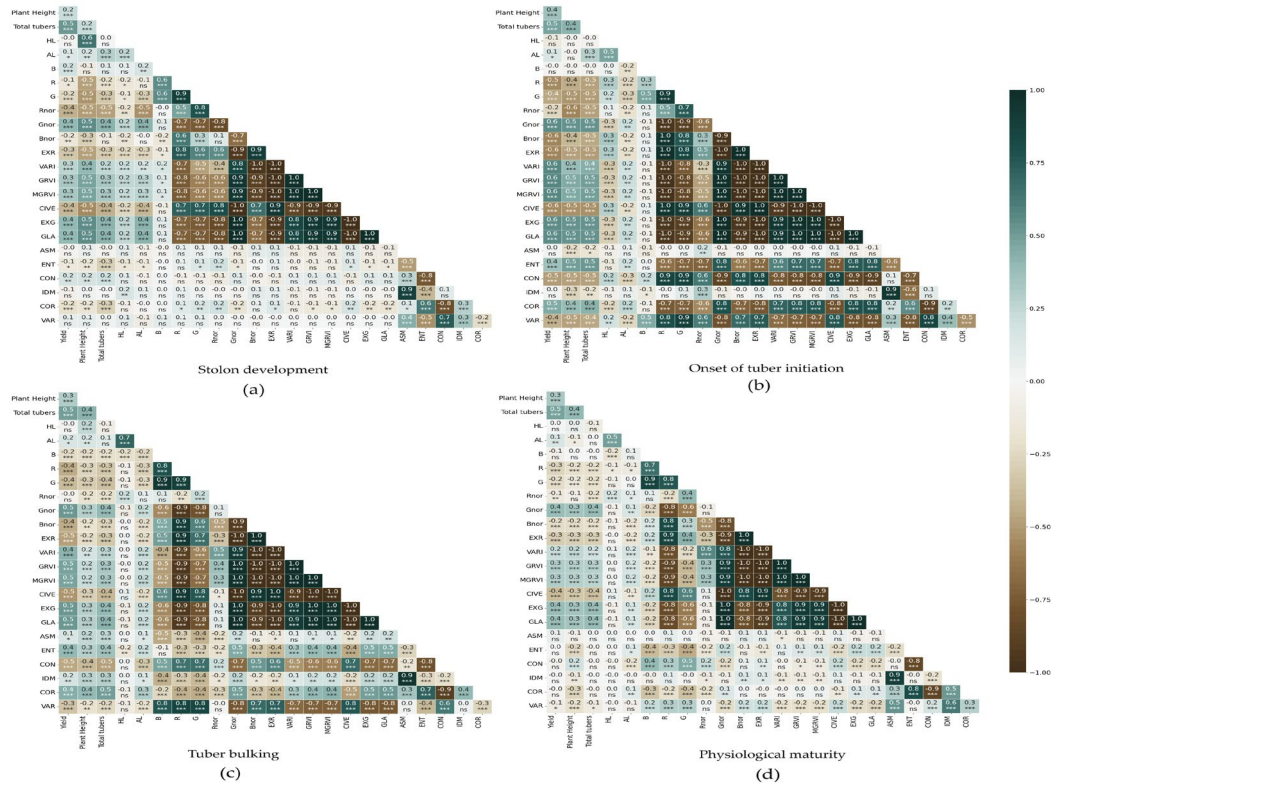

Figure S2. Pearson correlation map between agronomic variables, color and texture index by phenological stage: a) stolon development, b) onset of tuber initiation, c) tuber bulking and d) physiological maturity

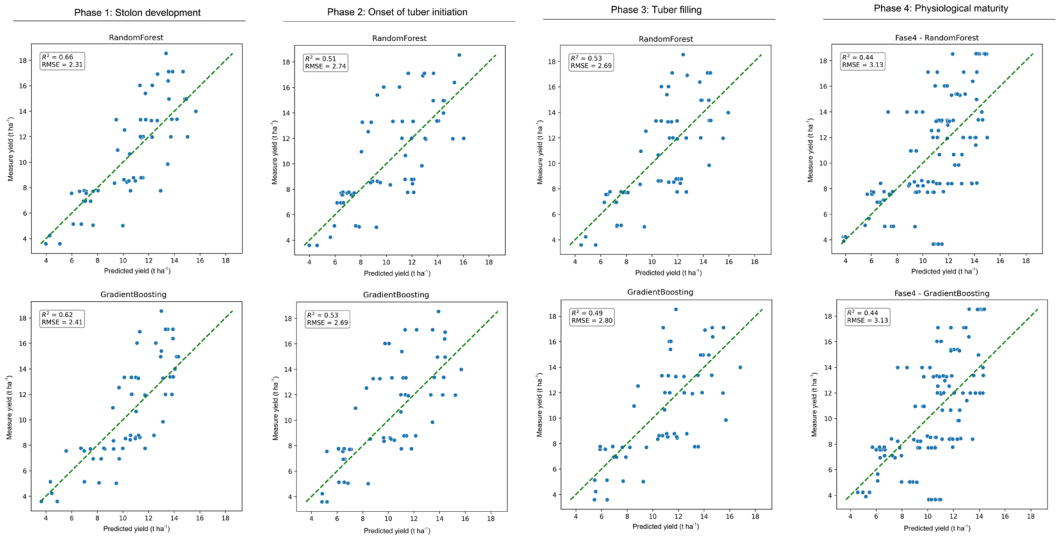

Figure S3. Predicted versus measured yield for Gradient Boosting and Random Forest across the four growth phases of potato crops during the 2024–2025 period.