Supplemental Materials for ‘Long-term Experiments and Strip Plot Designs’

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Let $\bar{y}_{i..} = K^{-1} \sum_k Y_{ikt}$, $\bar{y}_{i..} = (KT)^{-1} \sum_k \sum_t Y_{ikt}$, $\bar{y}_{..t} = (Ka)^{-1} \sum_i \sum_k Y_{ikt}$,
Table shows the variances of the components for model (1):

Table 1s: Variances of the components for model (1)

Quantity	Estimate	Variance under model (1)
Treatment mean	$\bar{y}_{i..}$	$(KT)^{-1}(T\sigma_b^2 + T\sigma_a^2 + \sigma_\varepsilon^2) + T^{-1}(\sigma_y^2 + \sigma_{ya}^2)$
Cycle mean	$\bar{y}_{..t}$	$(Ka)^{-1}(a\sigma_b^2 + \sigma_a^2 + \sigma_\varepsilon^2) + a^{-1}(a\sigma_y^2 + \sigma_{ya}^2)$
Combination mean	$\bar{y}_{i..t}$	$(K)^{-1}(\sigma_b^2 + \sigma_a^2 + \sigma_\varepsilon^2) + \sigma_y^2 + \sigma_{ya}^2$

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Figure 1s: Autocorrelation plot within each plot unit

Figure 2s: Treatments, Time and WSI effects and two-way interaction plots

Figure 3s: Treatments and Time three-way interaction plots

Figure 4s: Treatments and Time three-way interaction plots