



# Spray and Yield Maps

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As analyzed  
Strips 2,4,6 and 8 are sprayed

# Naive Analysis

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- Each treated strip covers 4 harvest passes.**
- Pair each treated strip with an adjacent strip of untreated harvest passes.**
- Calculate mean yields for all yield data points in each strip.**
- Analyze as if each strip were a plot in a small-plot experiment (RCB, 2 treatments, 4 replicates)**
- Write a model**  
 $y_{ij} = \mu + \rho_j + \tau_i + e_{ij}$   
 $\tau_0 = \text{unsprayed}, \tau_1 = \text{sprayed}, \rho_1 \dots \rho_4 = \text{pairs}, e_{ij} \sim \mathcal{N}(0, \sigma^2)$
- State a null hypothesis**  
 $H_0 : \tau_1 = \tau_2 = 0$