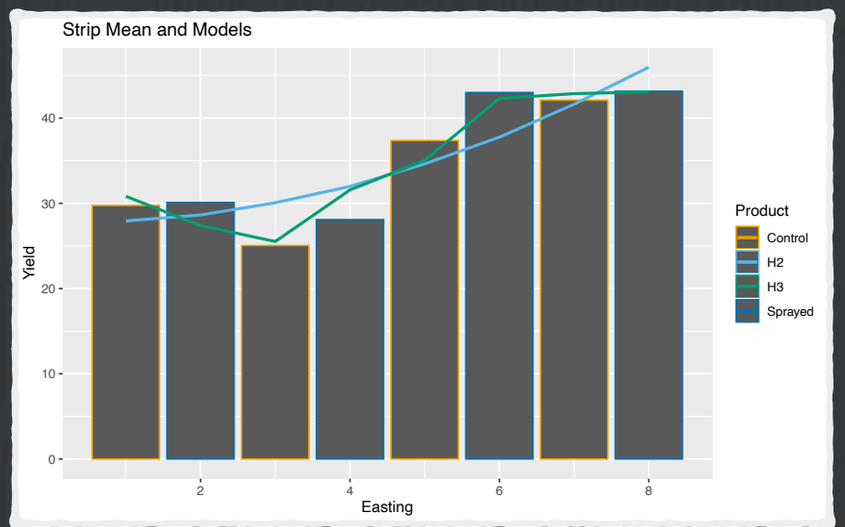
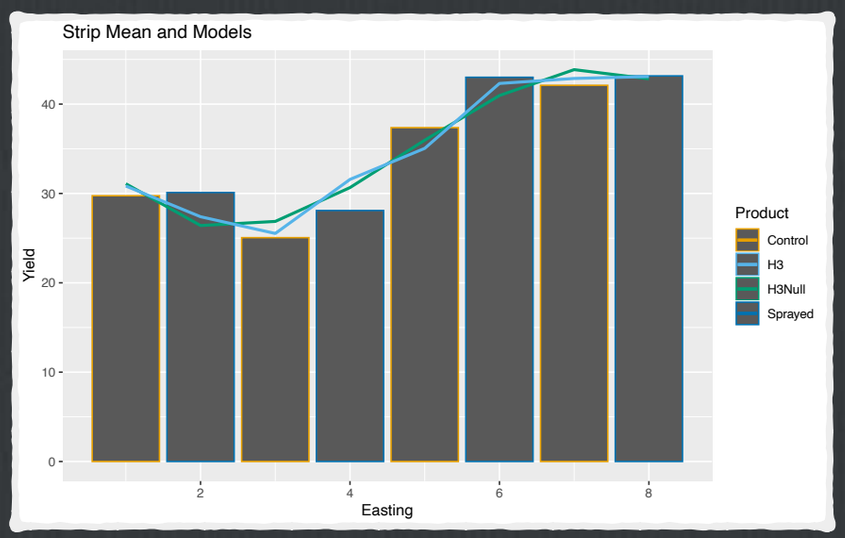
Model Comparison





☐ Likelihood test to compare H_2 and H_3

☐
```
Model 1: Yield ~ poly(Pass, 2) + Product
Model 2: Yield ~ poly(Pass, 3) + Product
  #Df  LogLik Df  Chisq Pr(>Chisq)
1   5 -20.980
2   6 -16.259  1 9.4428    0.00212 **
```

☐ Likelihood test to compare H_3 with and without treatment effect

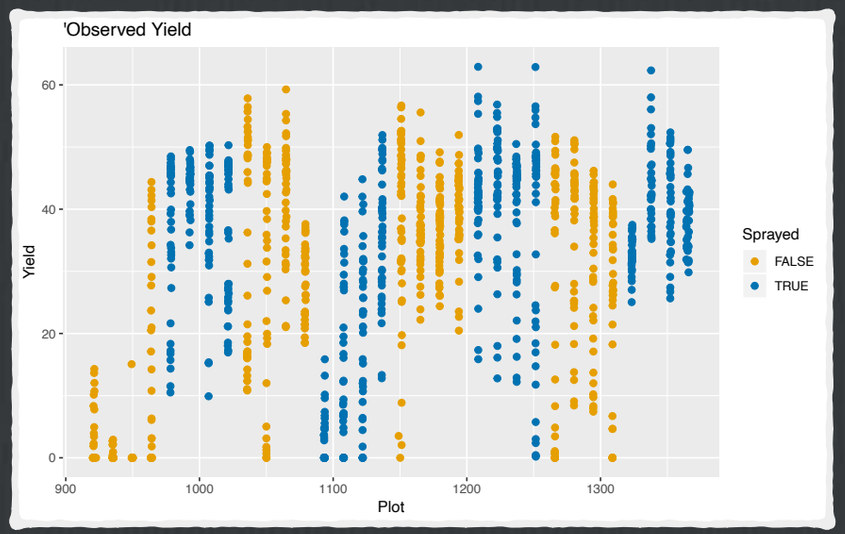
☐
```
Likelihood ratio test
Model 1: Yield ~ poly(Pass, 3)
Model 2: Yield ~ poly(Pass, 3) + Product
  #Df  LogLik Df  Chisq Pr(>Chisq)
1   5 -17.217
2   6 -16.259  1 1.9168     0.1662
```

☐ and

$H_3 : \tau = 2.108$

LR = 2.61

Trend Analysis Across ‘Plots’



- We revisit the ‘plot’ analysis, but this time using yield observations, and we model by distance from the East edge of the field.

- As before, calculate log-likelihood, AIC and BIC for each hypothesis