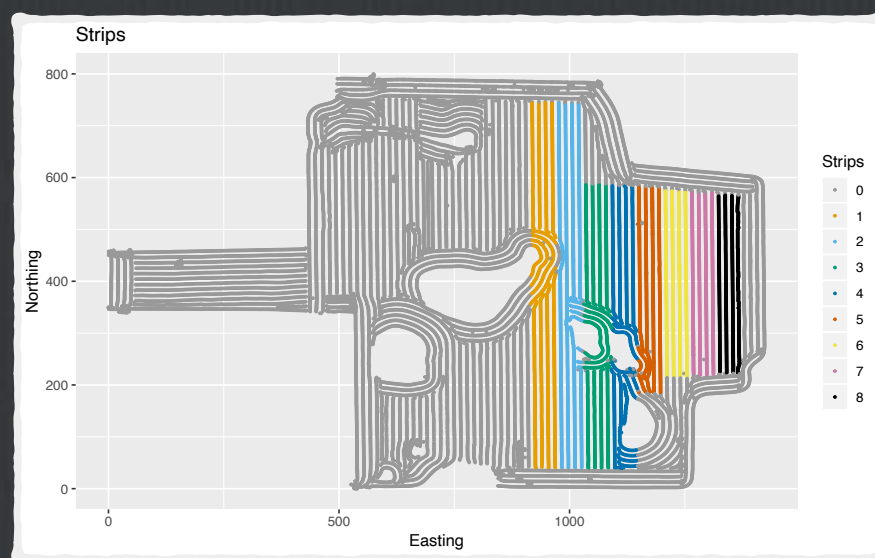
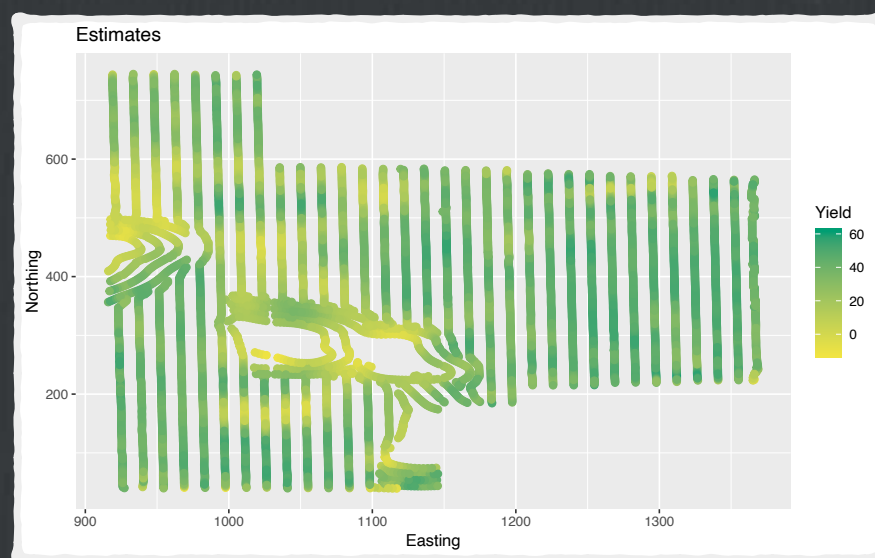


# All Strips



□ Likelihood test to compare 2D models with and without treatment effect

□ Likelihood ratio test

Model 1:  $\text{Yield} \sim \text{poly}(\text{Easting}, 21) * \text{poly}(\text{Northing}, 21)$

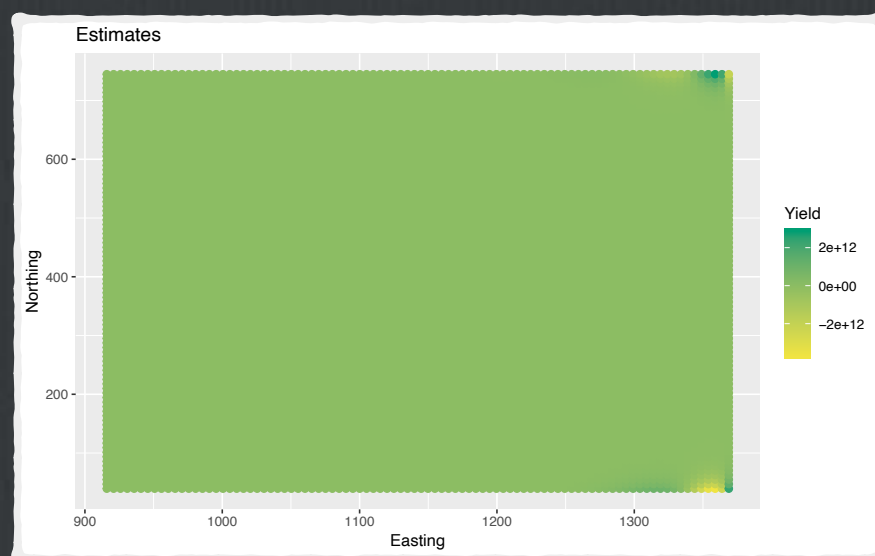
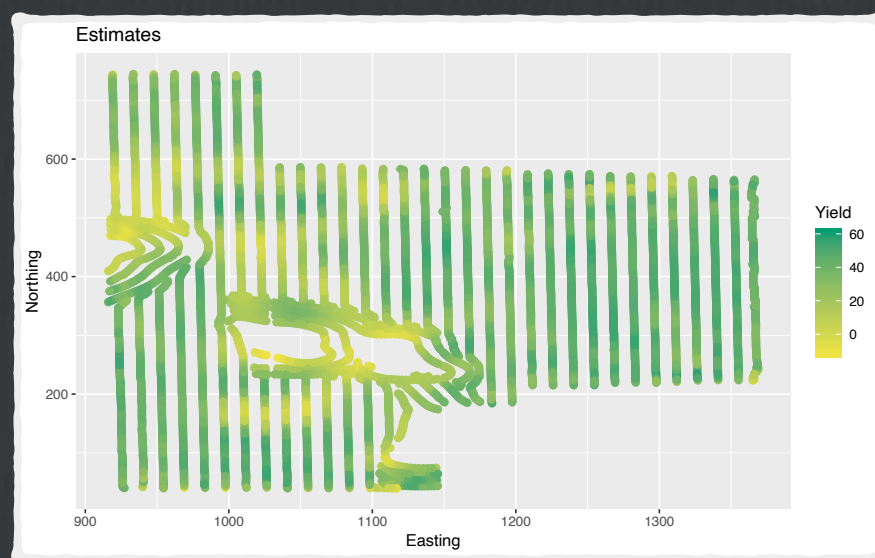
Model 2:  $\text{Yield} \sim \text{poly}(\text{Easting}, 21) * \text{poly}(\text{Northing}, 21) + \text{Sprayed}$

	#Df	LogLik	Df	Chisq	Pr(>Chisq)
1	485	-29622			
2	486	-29622	1	1.8792	0.1704

□ and

$$H_{2D} : \tau = 0.833, p(t) = 0.183$$

# All Strips



□ Likelihood test to compare 2D models with and without treatment effect

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Model 1:  $\text{Yield} \sim \text{poly}(\text{Easting}, 21) * \text{poly}(\text{Northing}, 21)$

Model 2:  $\text{Yield} \sim \text{poly}(\text{Easting}, 21) * \text{poly}(\text{Northing}, 21) + \text{Sprayed}$

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□ and

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□ This requires interpolation and extrapolation.