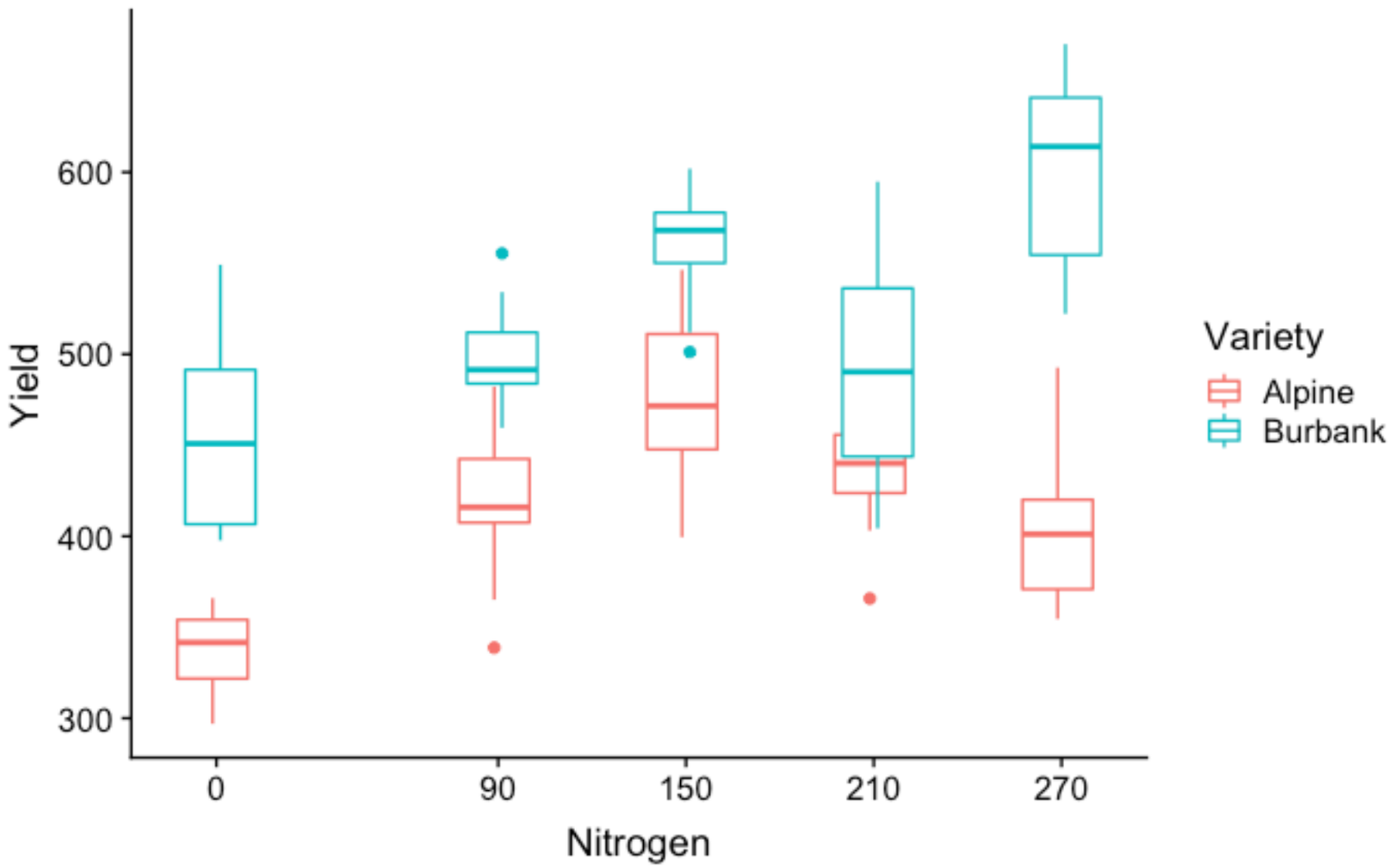

Yield
600
500
400
300
0
90
150
210
270
Nitrogen
Variety
Alpine
Burbank

ANOVA table

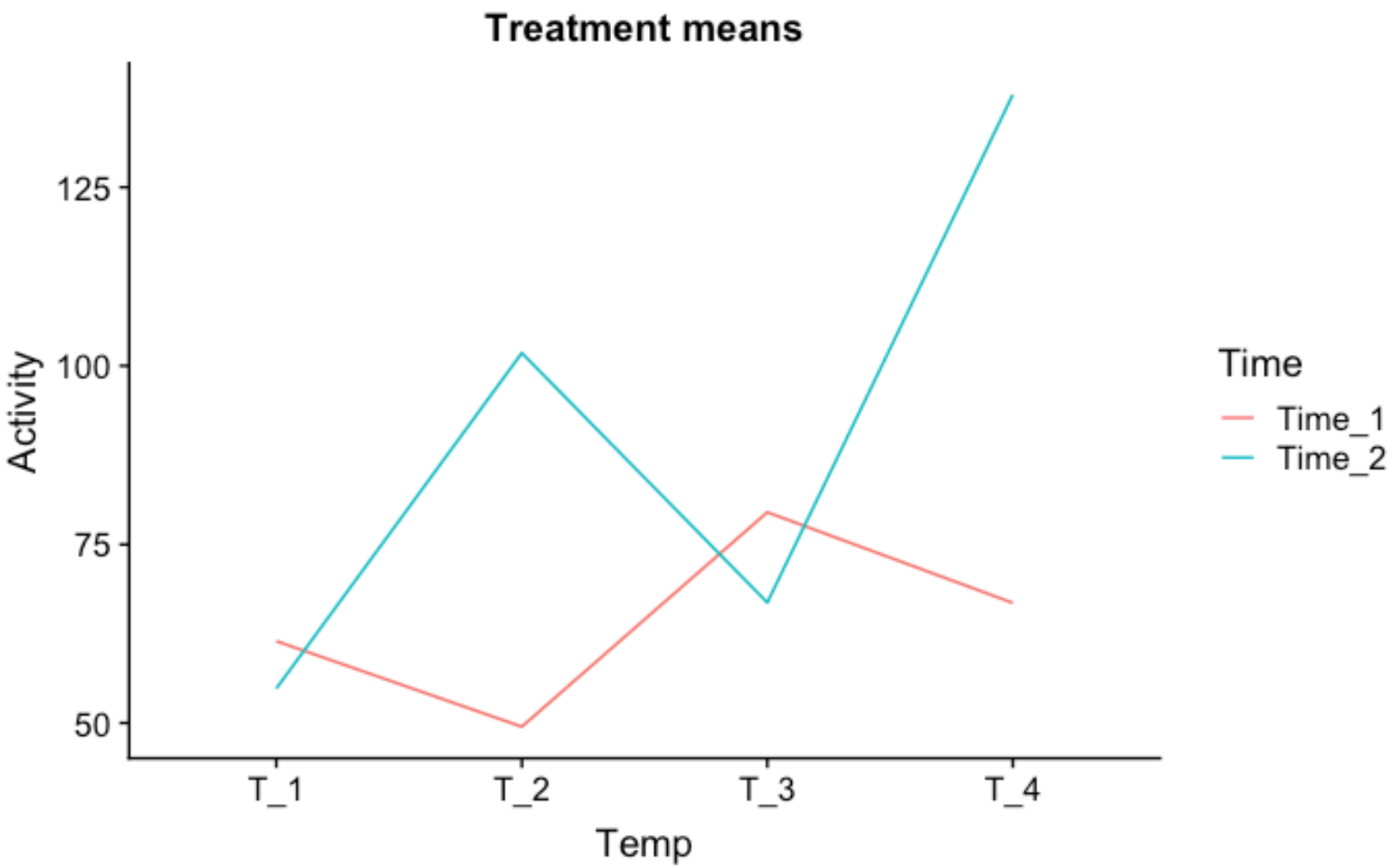
```{r}
full_model = lm(Yield ~ Variety + NitrogenF + Variety:NitrogenF, potato_reps)
anova(full_model)
```

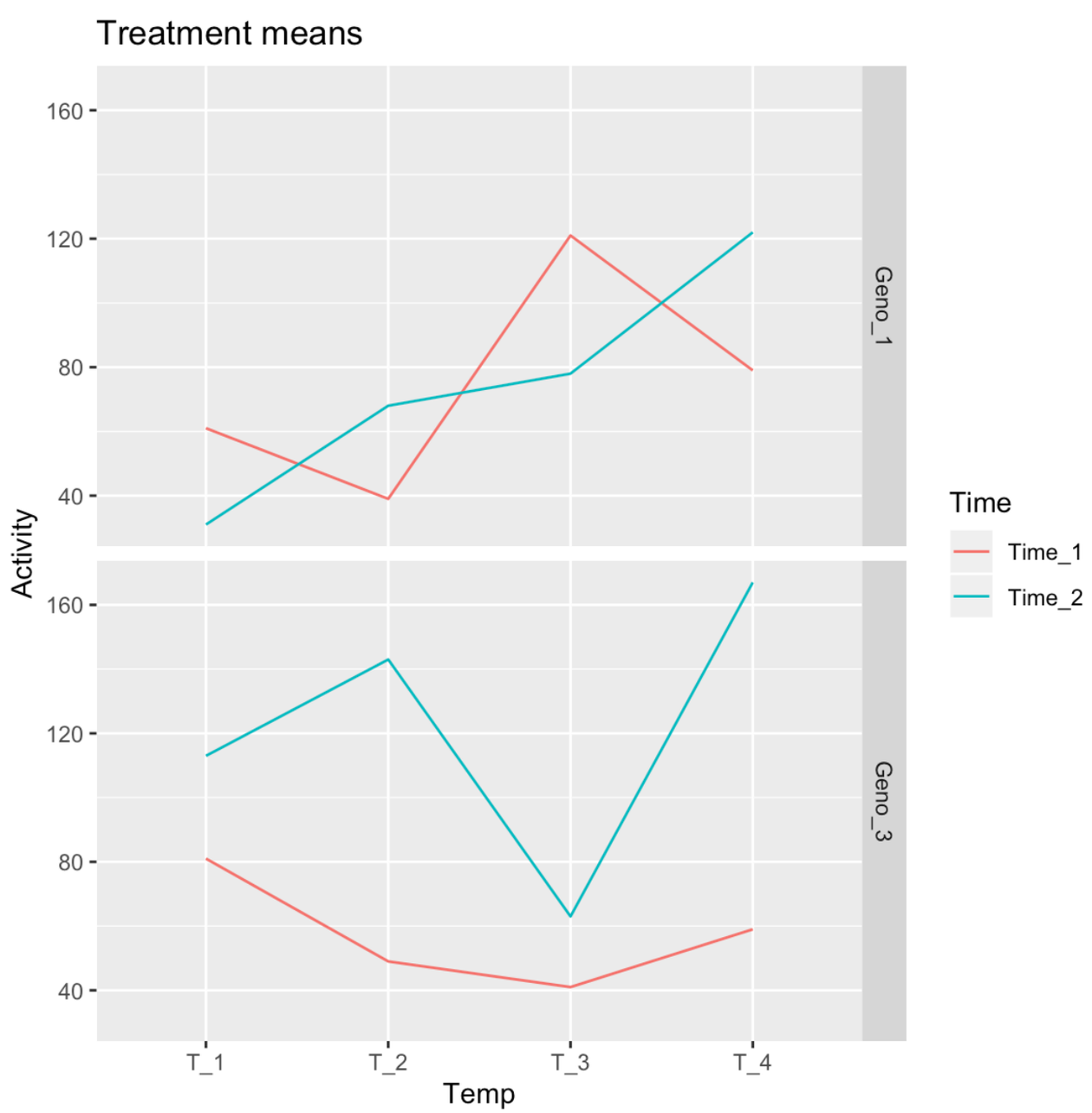
```
Analysis of Variance Table

Response: Yield
                  Df Sum Sq Mean Sq  F value    Pr(>F)
Variety            1 280604  280604 140.7279 < 2.2e-16 ***
NitrogenF          4 167984   41996  21.0617 2.790e-12 ***
Variety:NitrogenF  4  60001   15000   7.5229 2.831e-05 ***
Residuals         90 179456    1994
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1
```

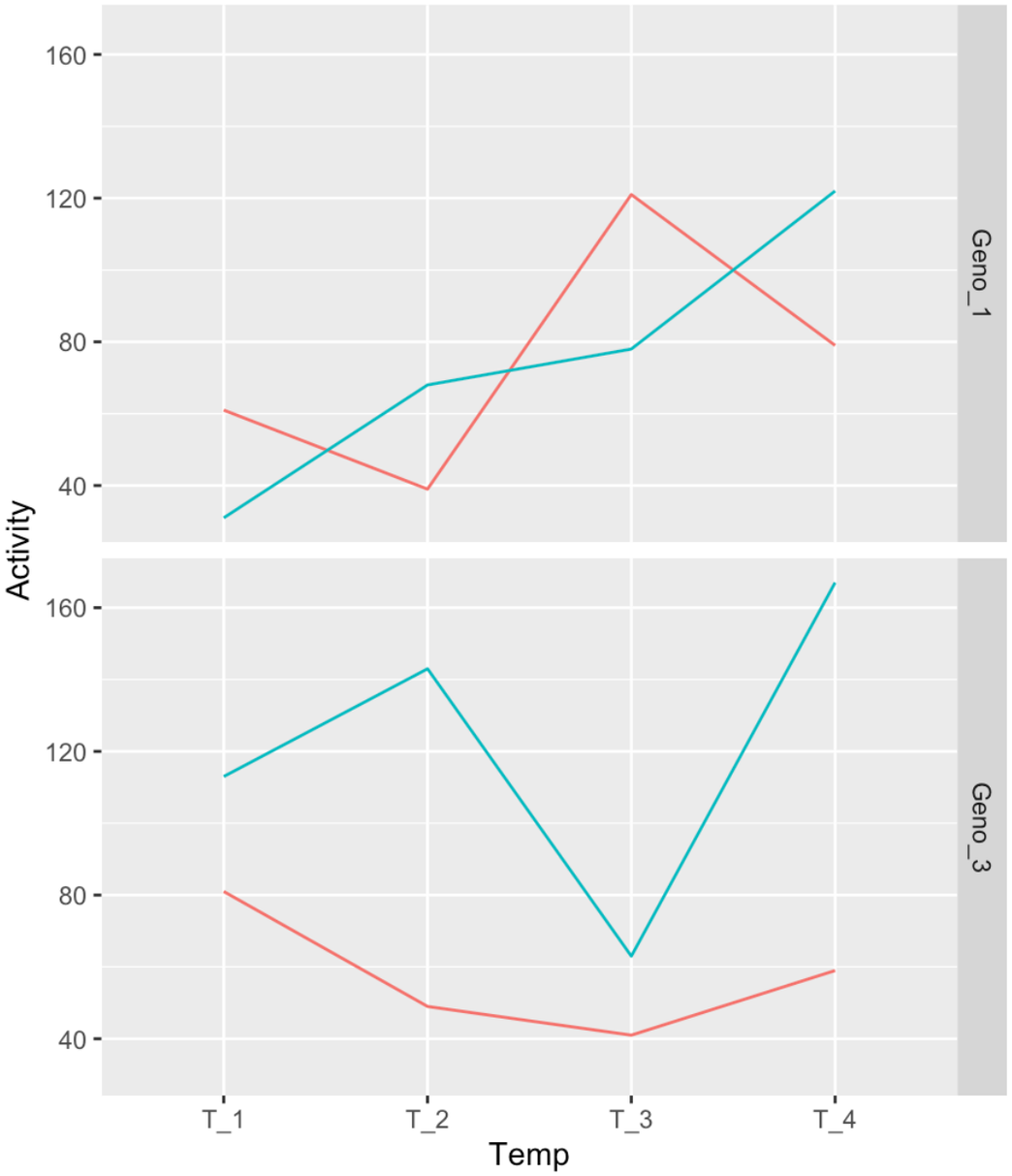
```
Analysis of Variance Table

Response: Activity2
               Df Sum Sq Mean Sq F value    Pr(>F)
Geno            2   4887  2443.6  2.9984 0.0592877 .
Temp            3  18275  6091.6  7.4748 0.0003332 ***
Time            1  12206 12205.7 14.9770 0.0003280 ***
Geno:Temp       6  21740  3623.3  4.4460 0.0011840 **
Geno:Time       2  12818  6408.8  7.8639 0.0011115 **
Temp:Time       3  23796  7931.9  9.7329 3.971e-05 ***
Geno:Temp:Time  6    109    18.2  0.0224 0.9999461
Residuals      48  39118   815.0
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1
```

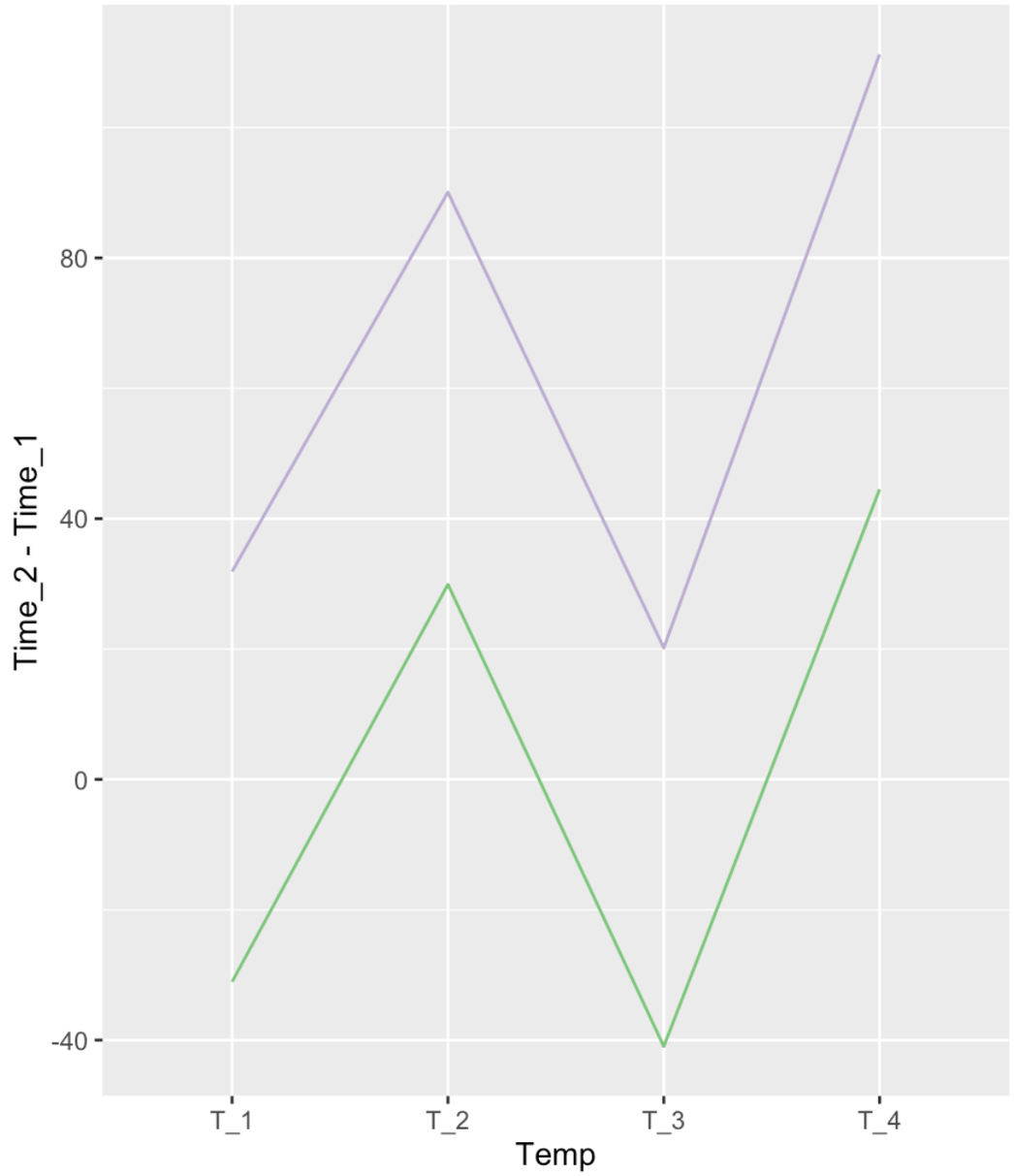

Treatment means
Activity
125
100
75
50
T_1
T_2
T_3
T_4
Temp
Time
Time_1
Time_2

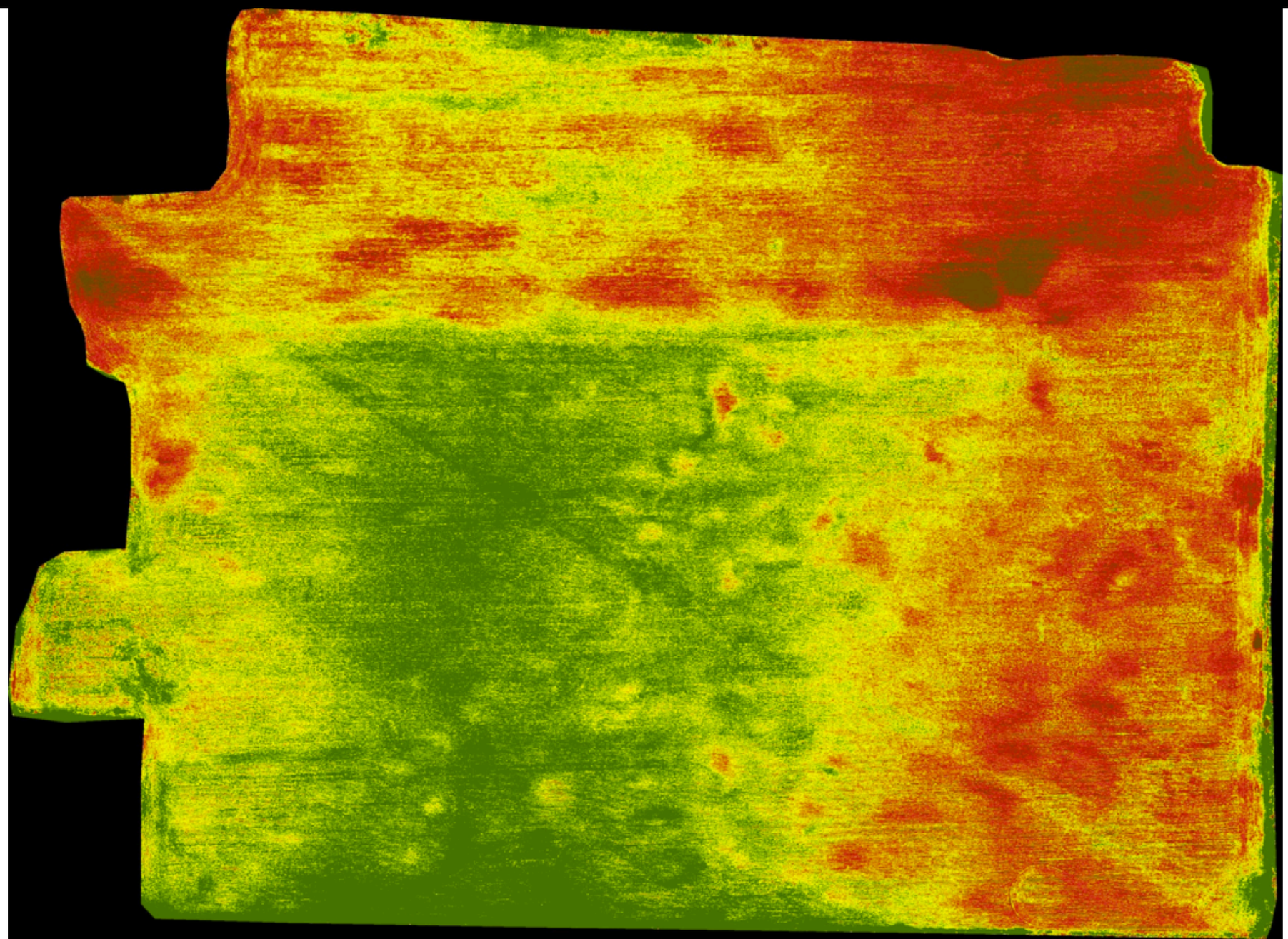

Treatment means
Activity
160
120
80
40
Geno_1
Geno_3
Time
Time_1
Time_2
T_1
T_2
T_3
T_4
Temp

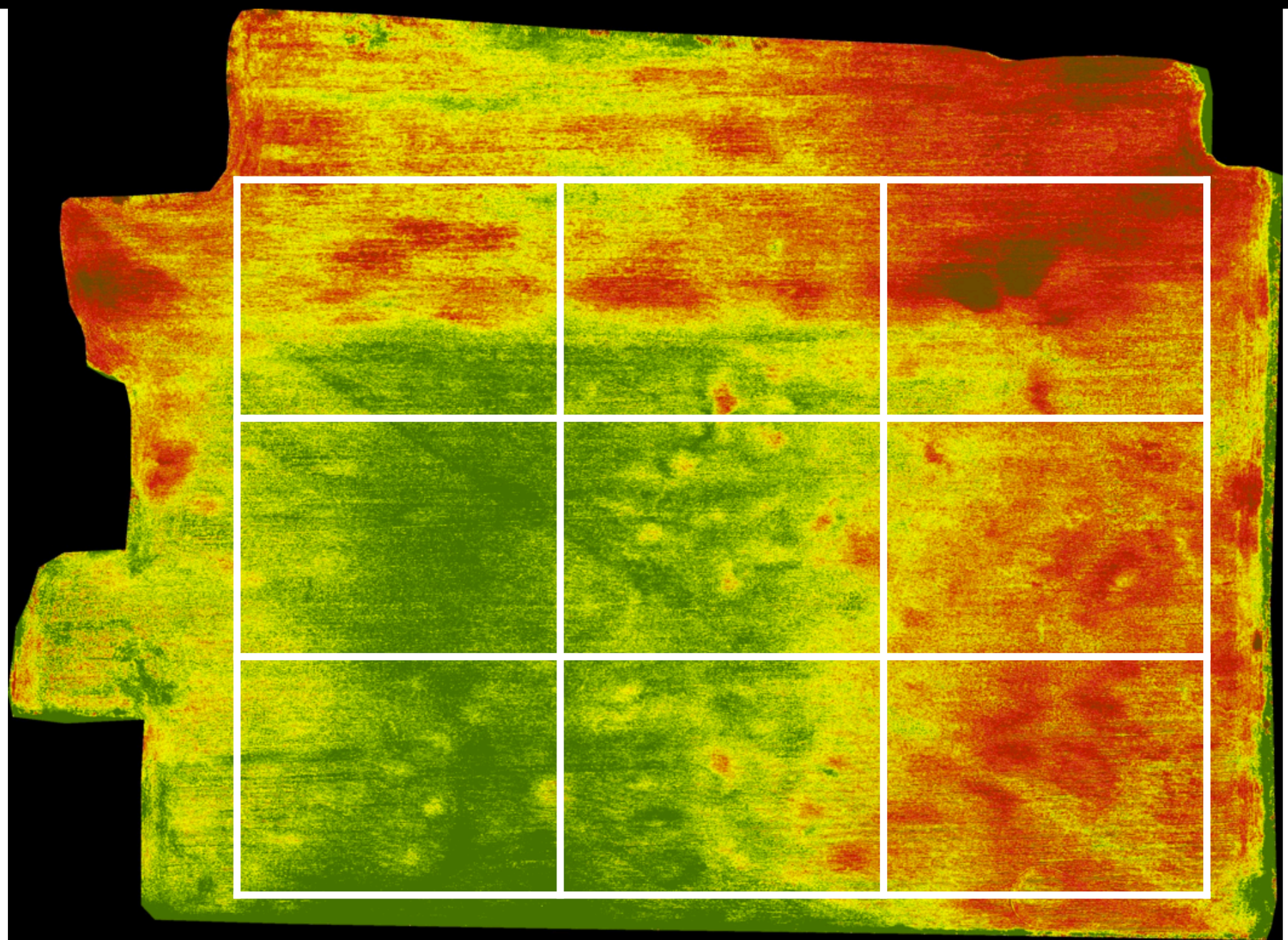
Treatment means

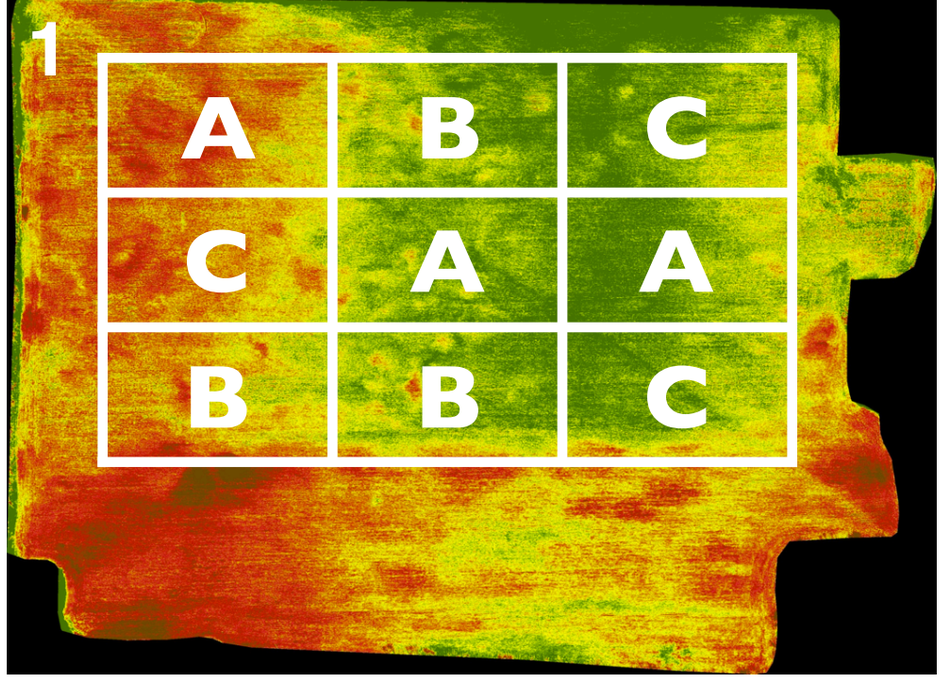


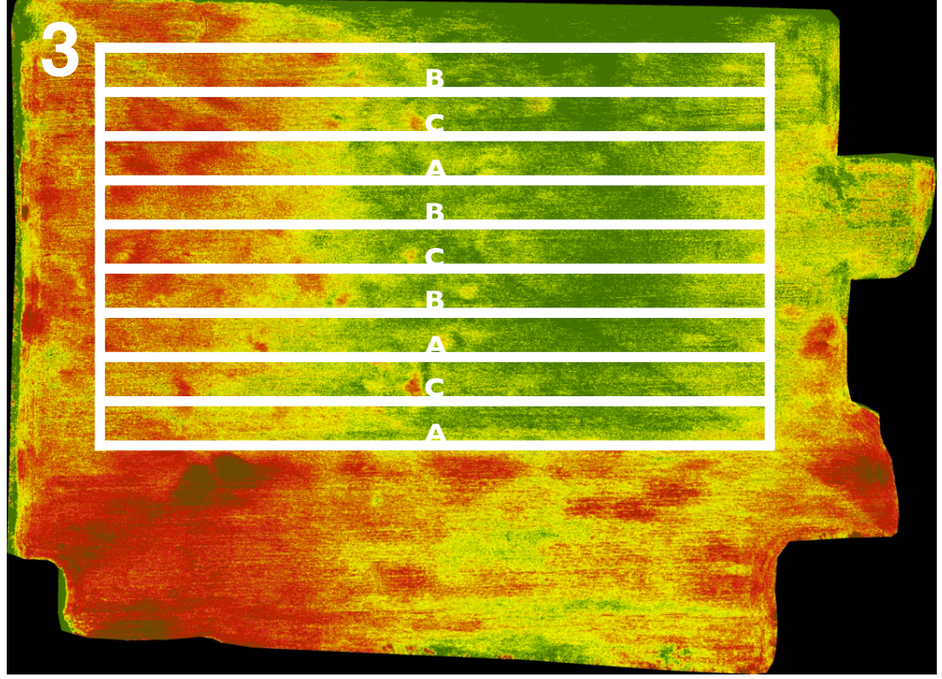
Time effects



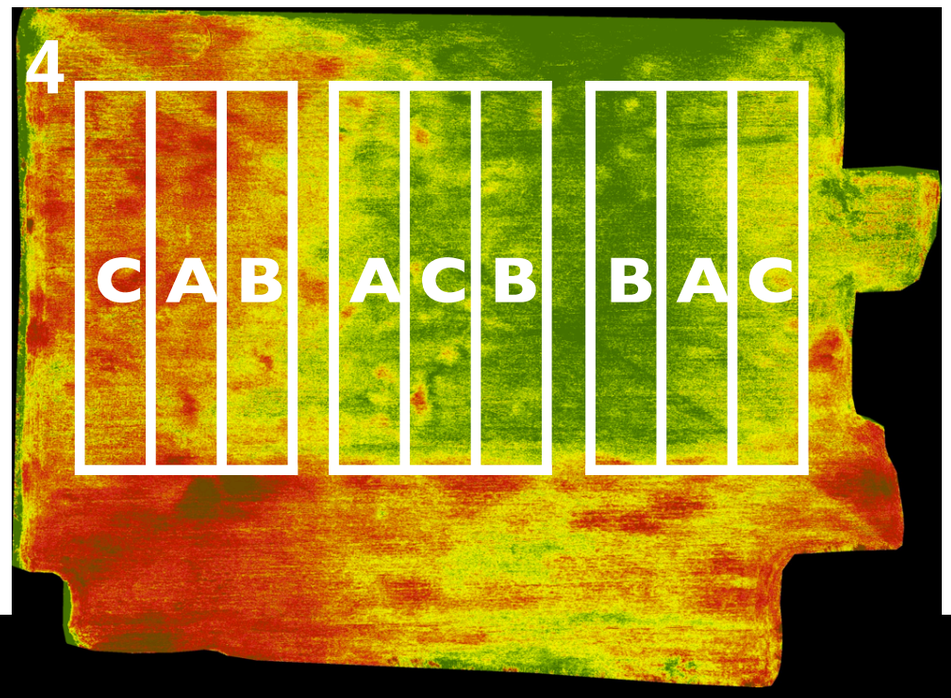
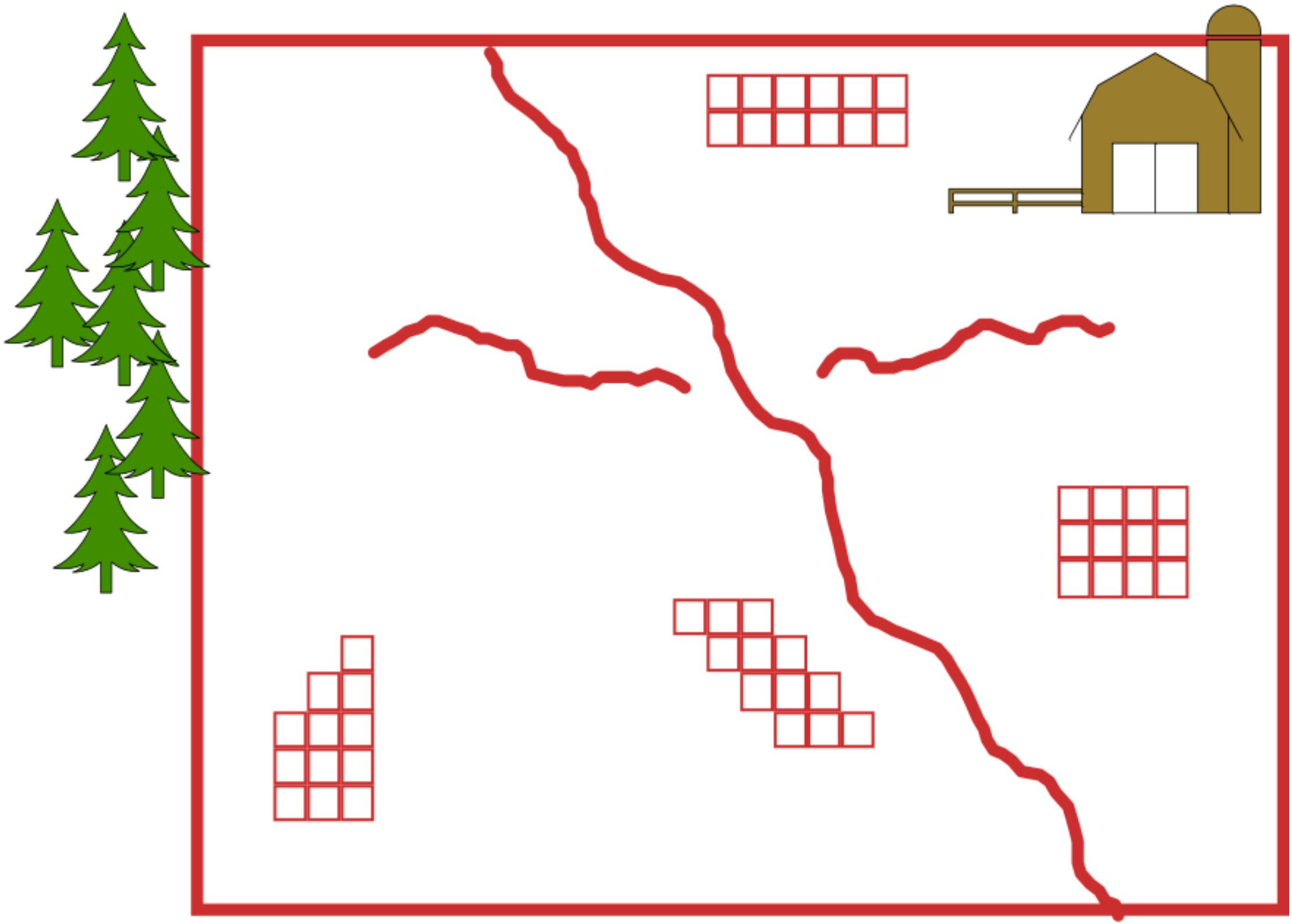





1
A B C
C A A
B B C


3
B
C
A
B
C
B
A
C
A

2
A B A B C A C B C


4
C A B A C B B A C