To study the effect of mutating the MC1R gene on fish fin colors, a researcher spends 2 years generating a knock-out mutant.

He then grows 6 Wild-Type fish in one tank and 6 fish from the mutant line in a different tank.

When they get to 5cm length, he measures the fin color of each fish.

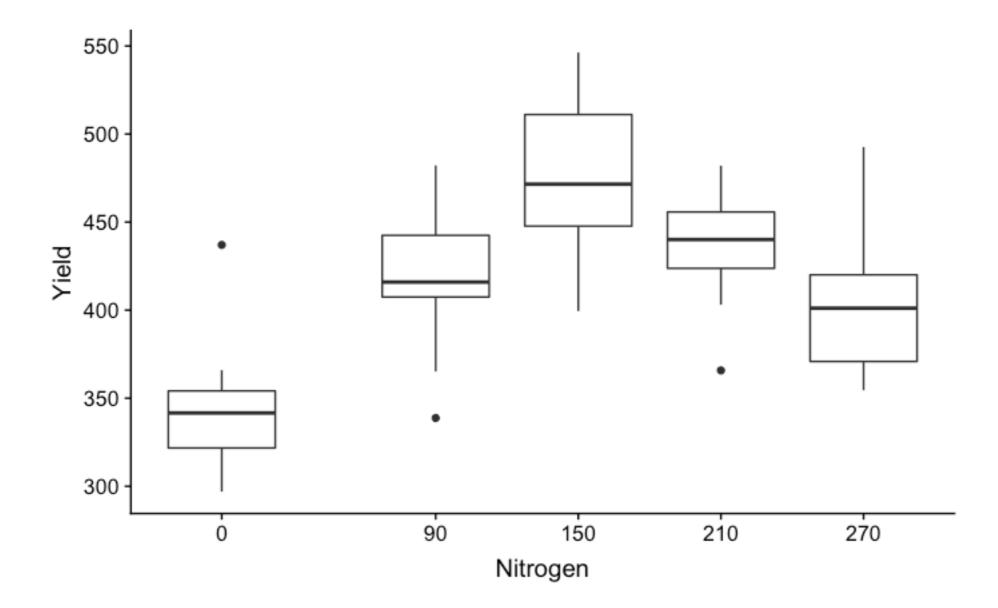
How many <u>experimental units</u> were included for the <u>effect of MC1R</u> on fin coloration?

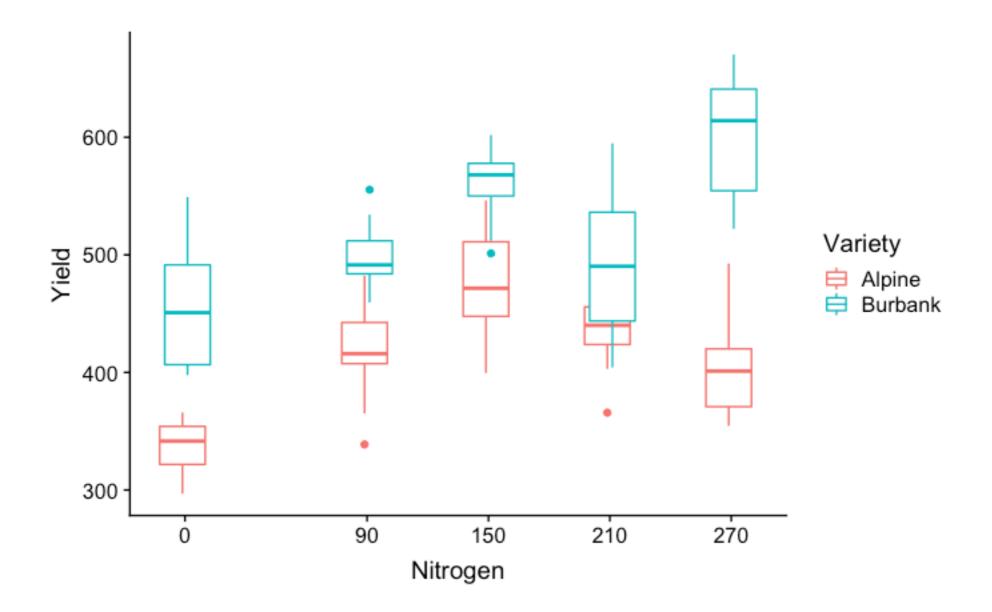
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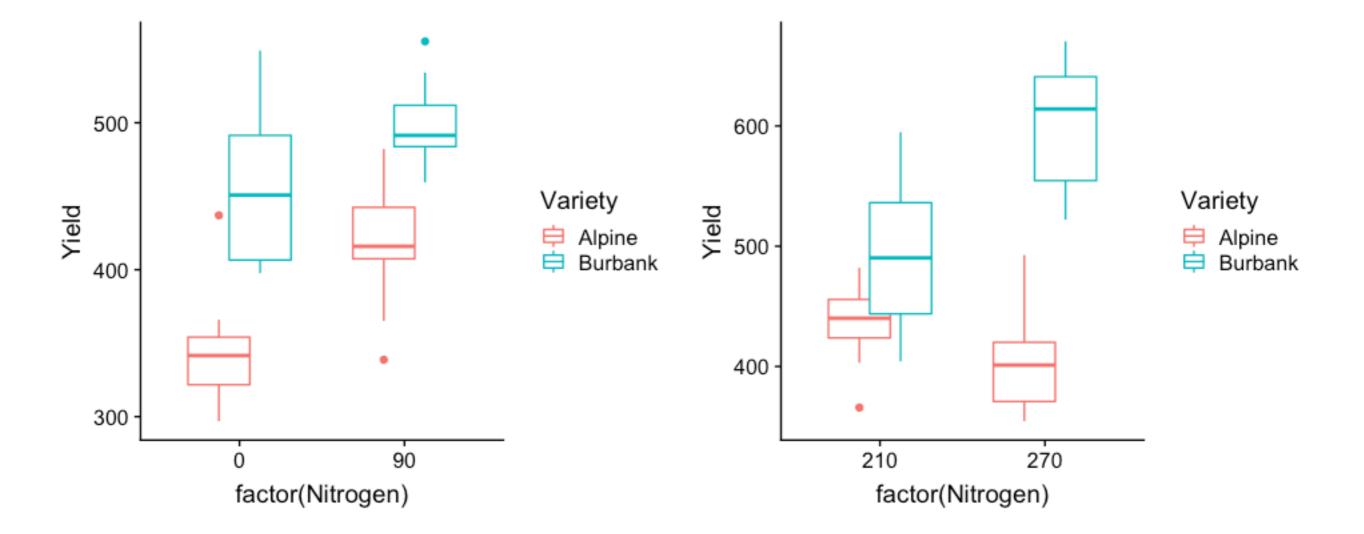
He then TAGS 6 FISH of each strain and grows them ALL IN THE SAME TANK.

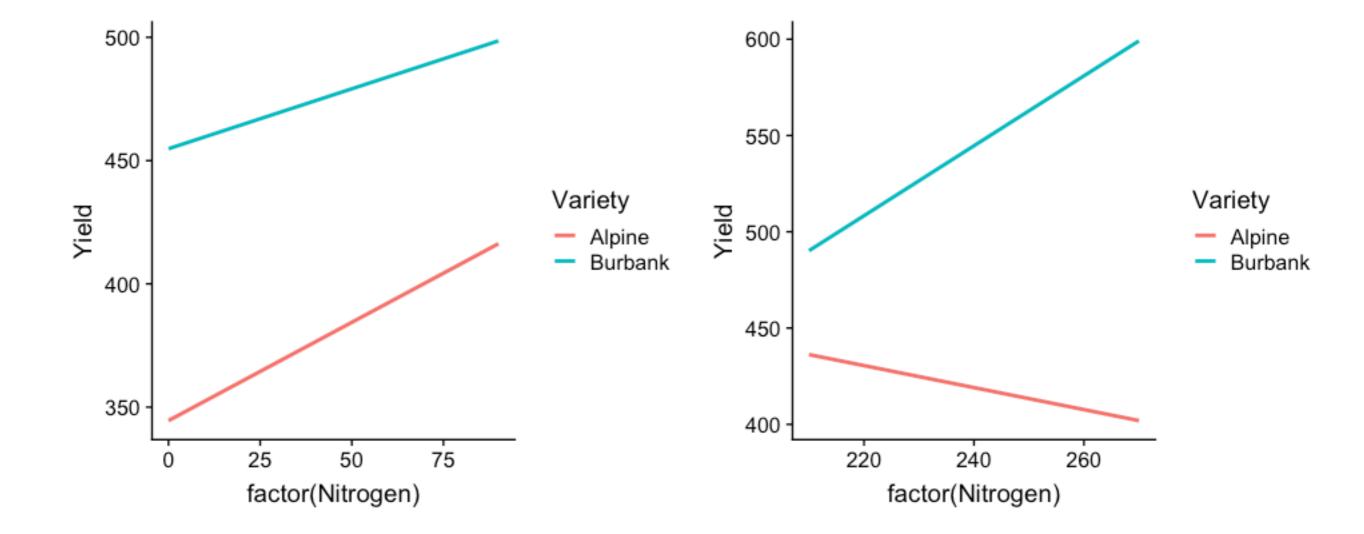
When they get to 5cm length, he measures the fin color of each fish.

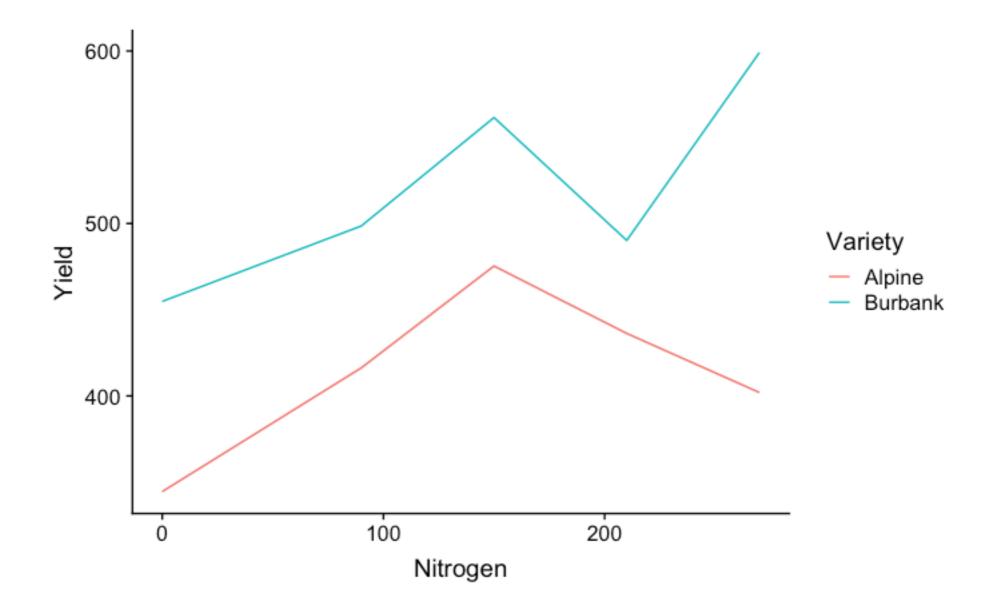
How many <u>experimental units</u> were included for the <u>effect of MC1R</u> on fin coloration?











```
## ANUVA 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 ***
 90 179456
Residuals
 1994
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' '1
```