# 05\_InClass\_Assignment\_RMarkdown

# Sachida Pokhrel

#### 2025-02-27

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# Clickable link to the manuscript

DOI

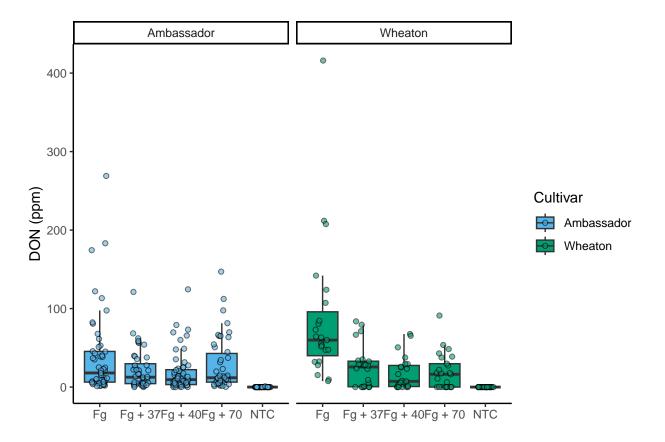
#### Read data

### Plot DON

```
scale_fill_manual(values = cbbPalette)+
theme_classic()+
xlab("")+
ylab("DON (ppm)")+
facet_wrap(~Cultivar)
#facet wrap according to the Cultivar, here I didnot use scale free since all all the plot space is use
DON
```

## Warning: Removed 8 rows containing non-finite outside the scale range
## ('stat\_boxplot()').

## Warning: Removed 8 rows containing missing values or values outside the scale range
## ('geom\_point()').

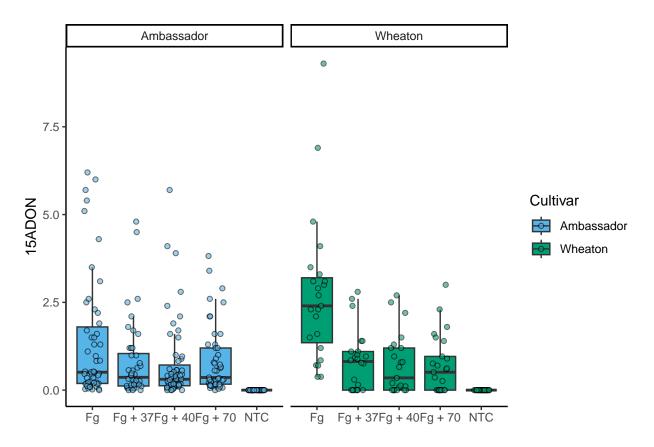


#### ## Plot X15ADON

```
scale_fill_manual(values = cbbPalette)+
theme_classic()+
xlab("")+
ylab("15ADON")+
facet_wrap(~Cultivar)
X15ADON
```

## Warning: Removed 10 rows containing non-finite outside the scale range
## ('stat\_boxplot()').

## Warning: Removed 10 rows containing missing values or values outside the scale range
## ('geom\_point()').

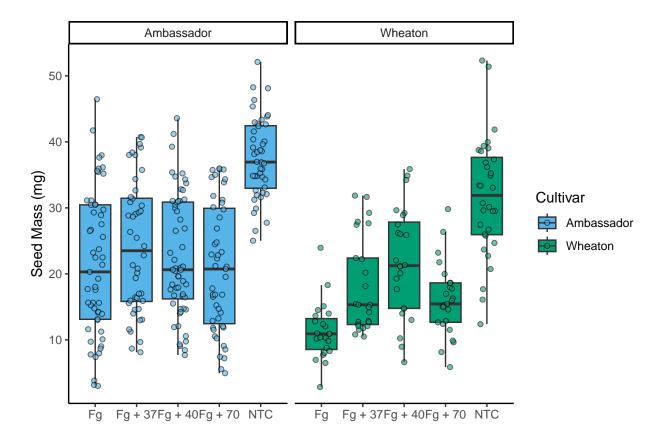


# Plot Seed mass

```
alpha=0.6 )+
scale_fill_manual(values = cbbPalette)+
theme_classic()+
xlab("")+
ylab("Seed Mass (mg)")+
facet_wrap(~Cultivar)
Seedmass
```

## Warning: Removed 2 rows containing non-finite outside the scale range
## ('stat\_boxplot()').

## Warning: Removed 2 rows containing missing values or values outside the scale range
## ('geom\_point()').



# Combine plots

```
label = "{p.adj.format}.{p.adj.signif}",
           hide.ns = T)
# takes Treatment as a group to compare using t-test and provides label for p-adjusted value and signif
X15ADON_stat <- X15ADON+
  geom_pwc(aes(group = Treatment),
           method = "t.test",
           label = "{p.adj.format}.{p.adj.signif}",
           hide.ns = T)
Seedmass_stat <- Seedmass+
  geom_pwc(aes(group = Treatment),
           method = "t.test",
           label = "{p.adj.format}.{p.adj.signif}",
           hide.ns = T)
stat_plot <- ggarrange(</pre>
  DON_stat,
  X15ADON_stat,
 Seedmass_stat,
 ncol = 3,
 nrow = 1,
 labels = c("A", "B", "C"), #we can also provide label to the plot manually
  common.legend = T
)
## Warning: Removed 8 rows containing non-finite outside the scale range
## ('stat_boxplot()').
## Warning: Removed 8 rows containing non-finite outside the scale range
## ('stat_pwc()').
## Warning: Removed 8 rows containing missing values or values outside the scale range
## ('geom_point()').
## Warning: Removed 8 rows containing non-finite outside the scale range
## ('stat_boxplot()').
## Warning: Removed 8 rows containing non-finite outside the scale range
## ('stat_pwc()').
## Warning: Removed 8 rows containing missing values or values outside the scale range
## ('geom_point()').
## Warning: Removed 10 rows containing non-finite outside the scale range
## ('stat_boxplot()').
## Warning: Removed 10 rows containing non-finite outside the scale range
## ('stat_pwc()').
```

## Warning: Removed 10 rows containing missing values or values outside the scale range
## ('geom\_point()').

## Warning: Removed 2 rows containing non-finite outside the scale range
## ('stat\_boxplot()').

## Warning: Removed 2 rows containing non-finite outside the scale range
## ('stat\_pwc()').

## Warning: Removed 2 rows containing missing values or values outside the scale range ## ('geom\_point()').

stat\_plot

