figure.s2

deng jun

2025-05-20

```
library(ggplot2)  # 最先加载
library(data.table)
library(cowplot)

# load the data file
d1 <- readxl::read_xlsx('D:/date/homework/Source Data.xlsx',sheet = "FigureS2")
d1 <- as.data.table(d1)

# make plots
p1 <- ggplot(data = d1, aes(x=mat))+
  geom_histogram(binwidth=1,fill="#F39B7FB2",
                 color="darksalmon", alpha=0.5)+
  theme_bw()+labs(x= "MAT (\u00B0C)", y= "Count")+ theme(axis.title= element_text(size=22, family=

p2 <- ggplot(data = d1, aes(x=map))+
  geom_histogram(binwidth=70,fill="#F39B7FB2",
                 color="darksalmon", alpha=0.5)+
  theme_bw()+ labs(x= "MAP (mm)", y= "Count")+ theme(axis.title= element_text(size=22, family="ser

p3 <- ggplot(data = d1, aes(x=clay))+
  geom_histogram(binwidth=1.5,fill="#00A087B2",
                 color="firebrick", alpha=0.5)+
  theme_bw()+ labs(x= "Clay (%)", y= "Count")+ theme(axis.title= element_text(size=22, family="ser

p4 <- ggplot(data = d1, aes(x=soc))+
  geom_histogram(binwidth=2.5,fill="#00A087B2",
                 color="firebrick", alpha=0.5)+
  theme_bw()+ labs(x= "SOC (g/kg)", y= "Count")+ theme(axis.title= element_text(size=22, family="s

p5 <- ggplot(data = d1, aes(x=ph))+
```

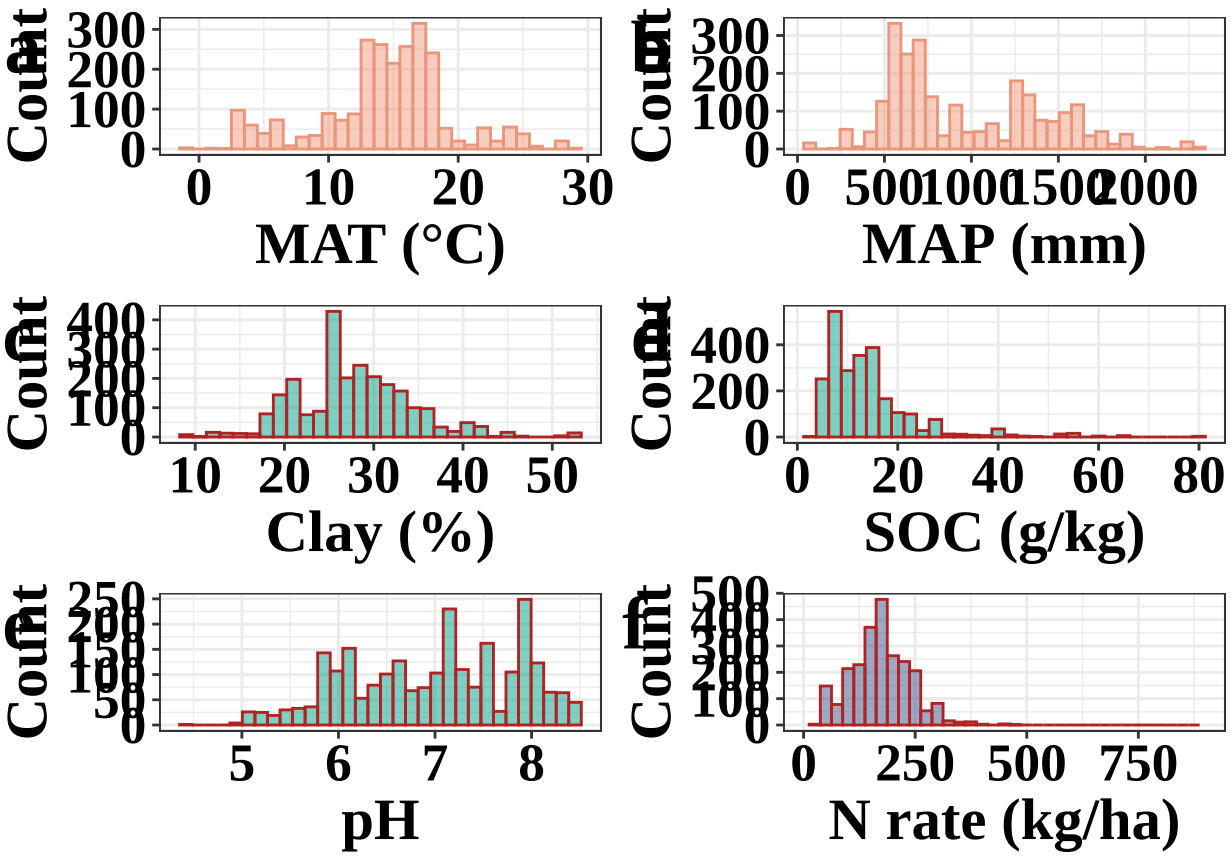
```
  geom_histogram(binwidth=0.13,fill="#00A087B2",
                 color="firebrick", alpha=0.5)+
  theme_bw()+ labs(x= "pH", y= "Count")+ theme(axis.title= element_text(size=22, family="serif", c

p6 <- ggplot(data = d1, aes(x=n_dose))+
  geom_histogram(binwidth=25,fill="#3C5488B2",
                 color="firebrick", alpha=0.5)+
  xlim(0, 900)+
  theme_bw()+ labs(x= "N rate (kg/ha)", y= "Count")+ theme(axis.title= element_text(size=22, famil

#3*4
plot_grid(p1, p2, p3, p4, p5, p6, ncol=2, nrow=3, labels= c("a", "b", "c", "d", "e", "f"), label_s
```

```
## Warning: Removed 23 rows containing non-finite outside the scale range
## (`stat_bin()`).
```

```
## Warning: Removed 2 rows containing missing values or values outside the scale range
## (`geom_bar()`).
```



```
ggsave(file = "D:/date/homework/picture/Figure_S2.png",width = 410,height = 297, units = "mm")
```

R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see http://rmarkdown.rstudio.com.

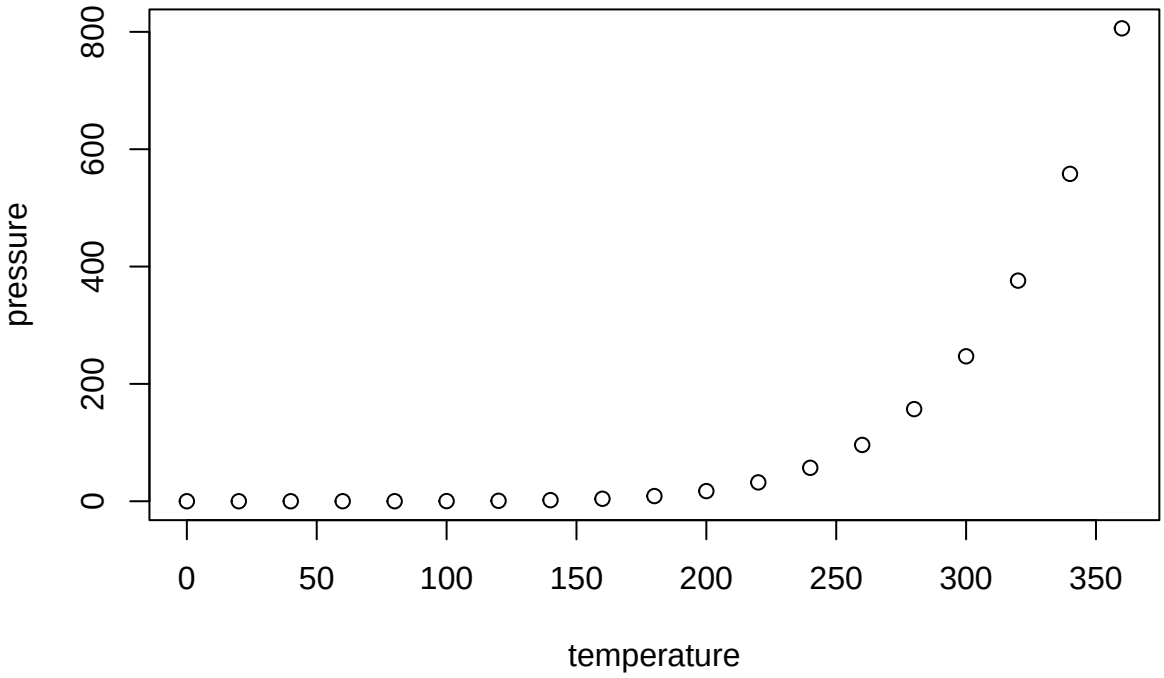
When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```
summary(cars)
```

```
##      speed           dist
##  Min.   : 4.0   Min.   :  2.00
##  1st Qu.:12.0   1st Qu.: 26.00
##  Median :15.0   Median : 36.00
##  Mean   :15.4   Mean   : 42.98
##  3rd Qu.:19.0   3rd Qu.: 56.00
##  Max.   :25.0   Max.   :120.00
```

Including Plots

You can also embed plots, for example:



Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of the R code that generated the plot.