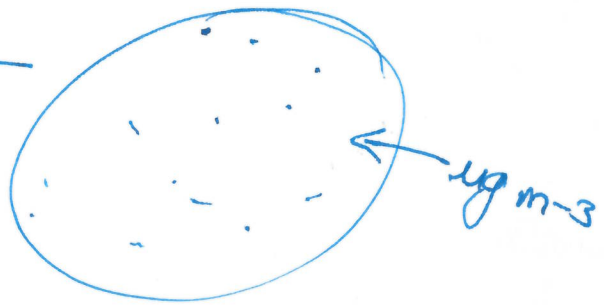
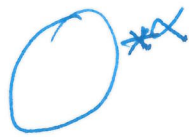


# Exploratory analysis

WD = 2



## 1. Summary. (df)

1.1 ~~Delete~~ orig temp.

AT 1.2 Clean AT further. Del. 631.98. and on the lower side.

1.3 Delete  $\geq 100$  value in RH.

1.4 Keep RH: 20-80

1.5 Clean WS values  $> 30 \text{ ms}^{-1}$  should be removed.

1.6 WB is in .

1.7 SR  $\rightarrow$  remove "-vc"

1.8 BP  $\rightarrow$  Make 0 as NA / Keep in 655 - 810

1.9 PM 2.5

1.9.1 Impute.

1.9.2 Real avg. from that day.  $\checkmark$  for unrel. values.

1.9.3 Del. 3897.31

1.10 Del. Temp.

1.11 Code Events.

## 3. Models.

3.0 NULL

3.1. GLM

3.2 GAM (UL)

3.3 CART

3.4 MARS

3.5 RF ~~RR~~

3.6 BART

3.7 SVM

3.8 NN - ??

## 2. EDA.

2.1. Scatterplot matrix

2.2. Violin Plot - ??

2.3. Conv. Plot.

2.4 PCA Bi-Plot.

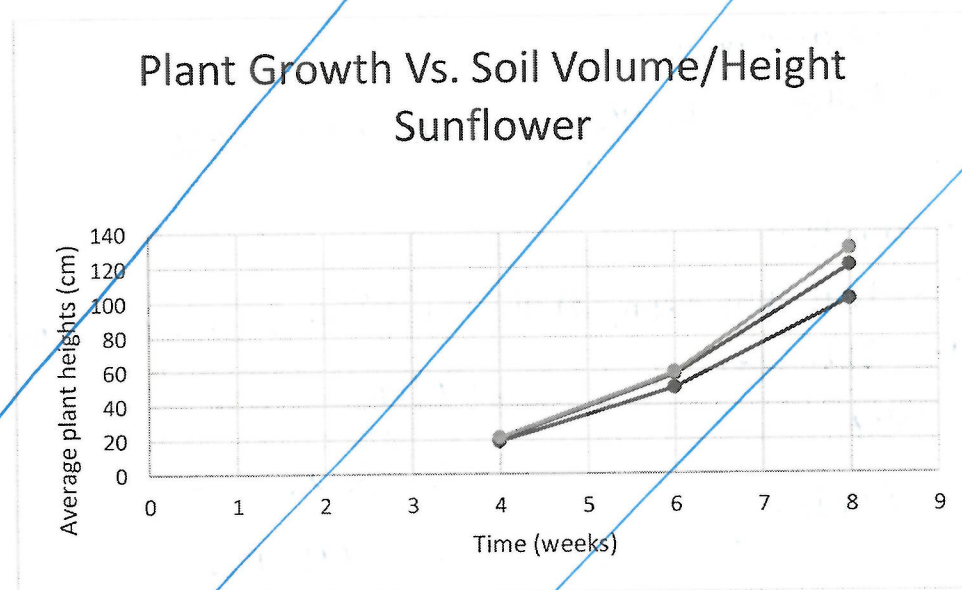
2. (8 points) Prepare **XY Scatter Plots** that show how the plant height of each species was affected by the volume of soil occupied by the root system and how it changed over time. (Use a separate graph for each species. For a single species, use individual lines for each soil volume. Graphs should indicate average height [y-axis], soil volume, and time [x-axis]. Attach these graphs to your report.)

KEY

Blue = 3"

Red = 5"

Green = 8"



3.5

1. Resid plot.

- ~~Resid vs. Predicted~~  $\hat{y}$   $e$  vs.  $\hat{y}$
- $\hat{y}$  vs.  $y$
- $e$  vs. (Predictions)
- Norm plot ( $e$ )

## 2. Variable Selection.

2.1 VarImp plot (where applicable)

2.2 Statistical Analysis of pred w & v0  $\leftarrow$  Final  $\mu_{\text{max}}$

2.3 Partial dependency.  $\rightarrow$  Final.

3. Final ~~of~~ comparing all the  $\overset{\text{RMSE}}{\wedge} \text{CV}$  OOB of models.