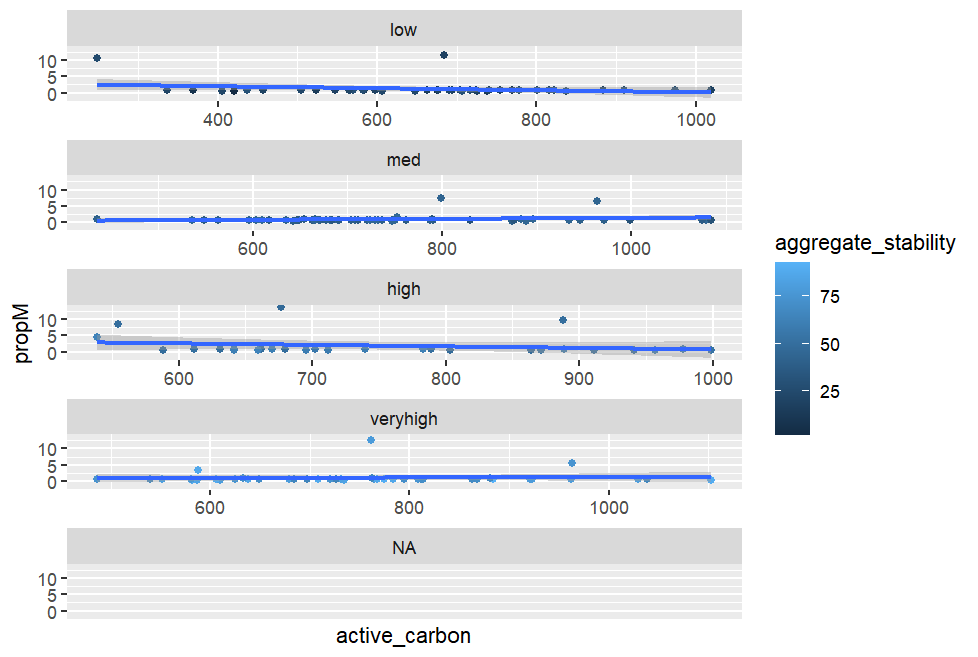
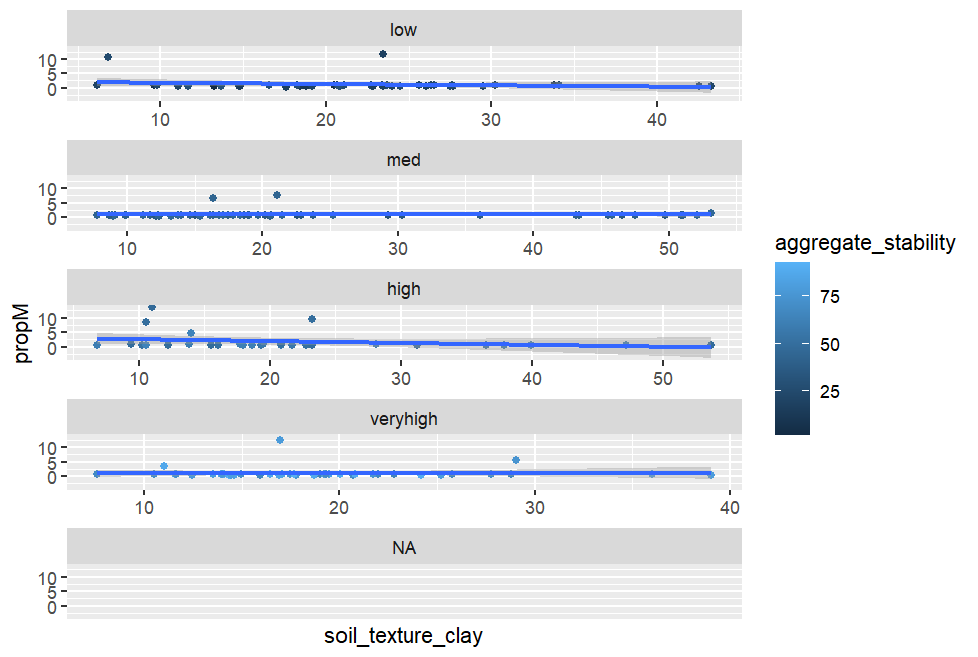
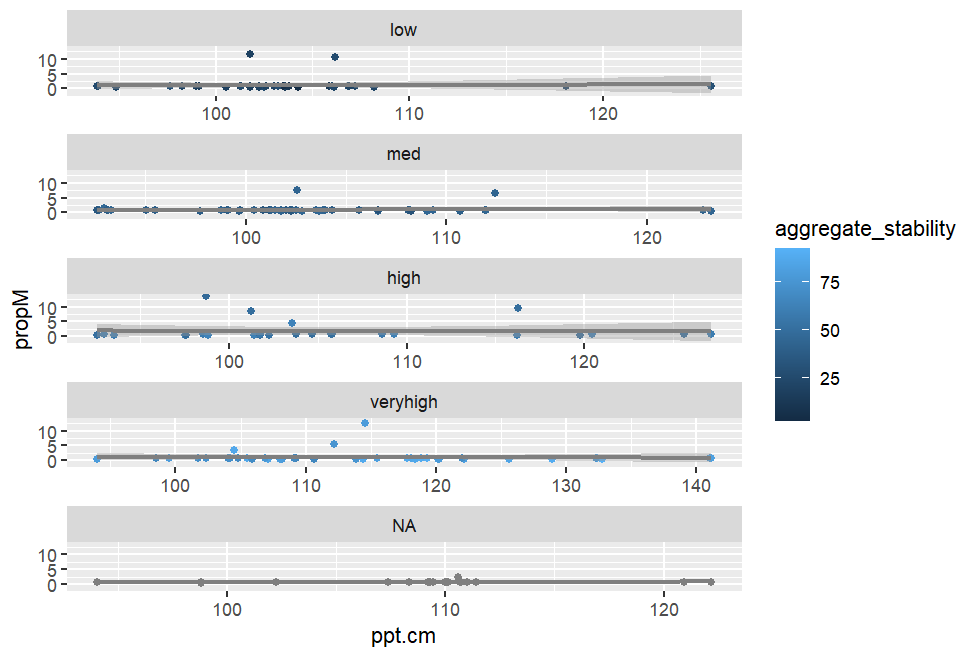
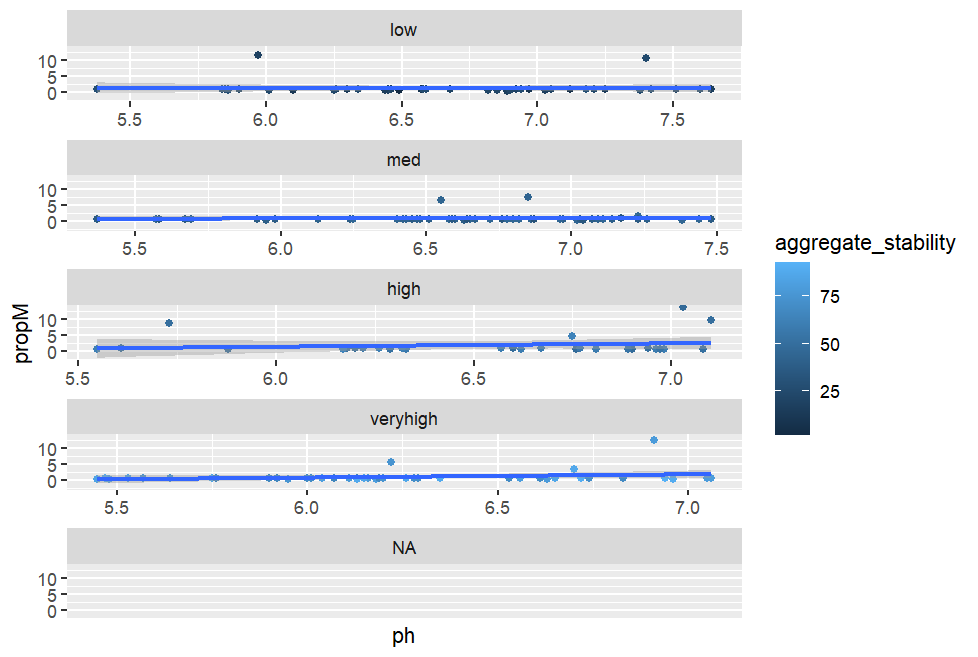
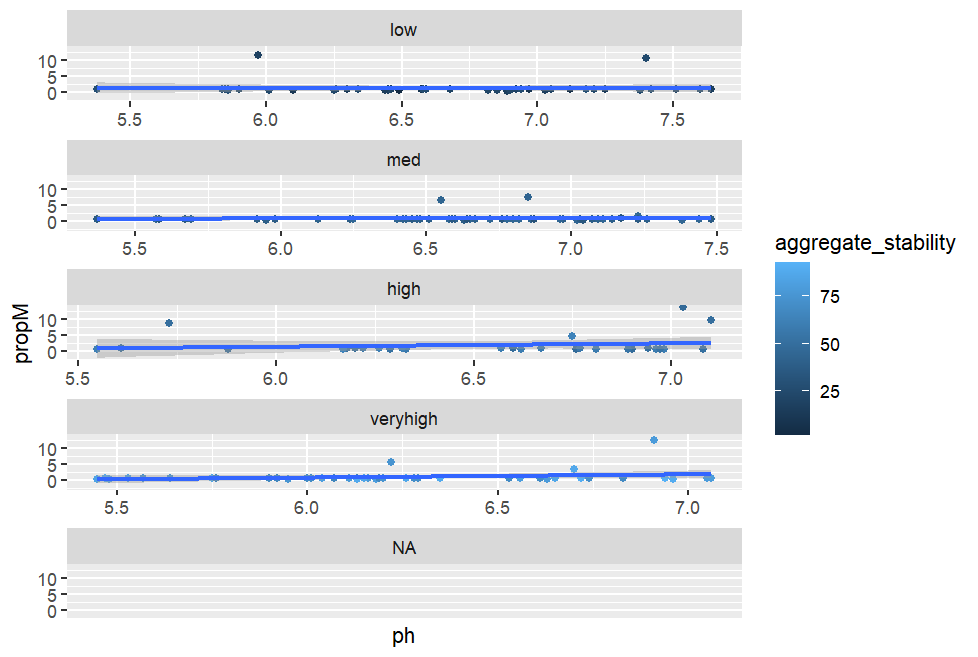
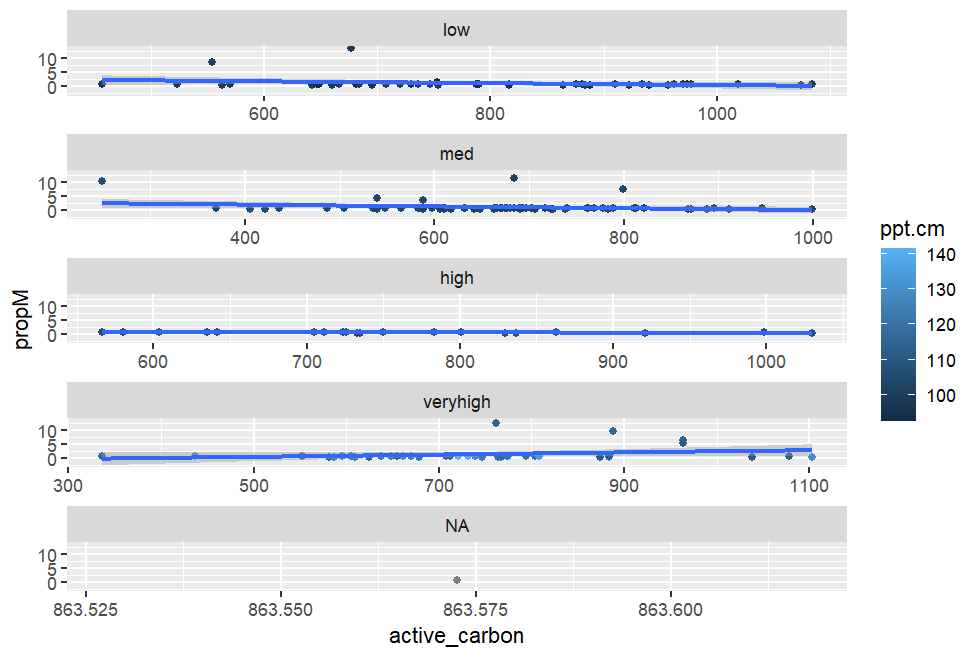
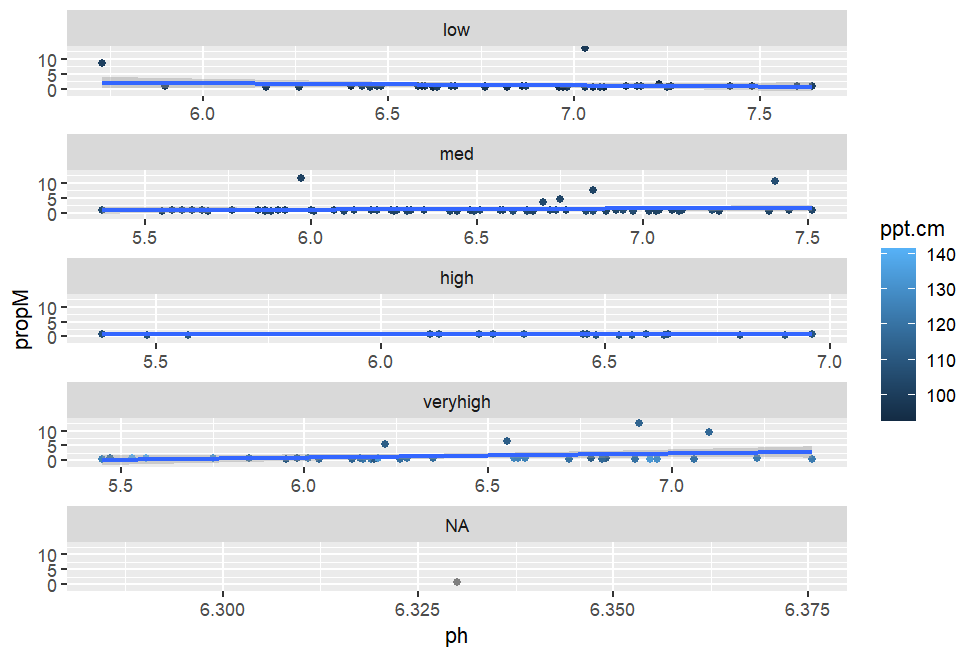
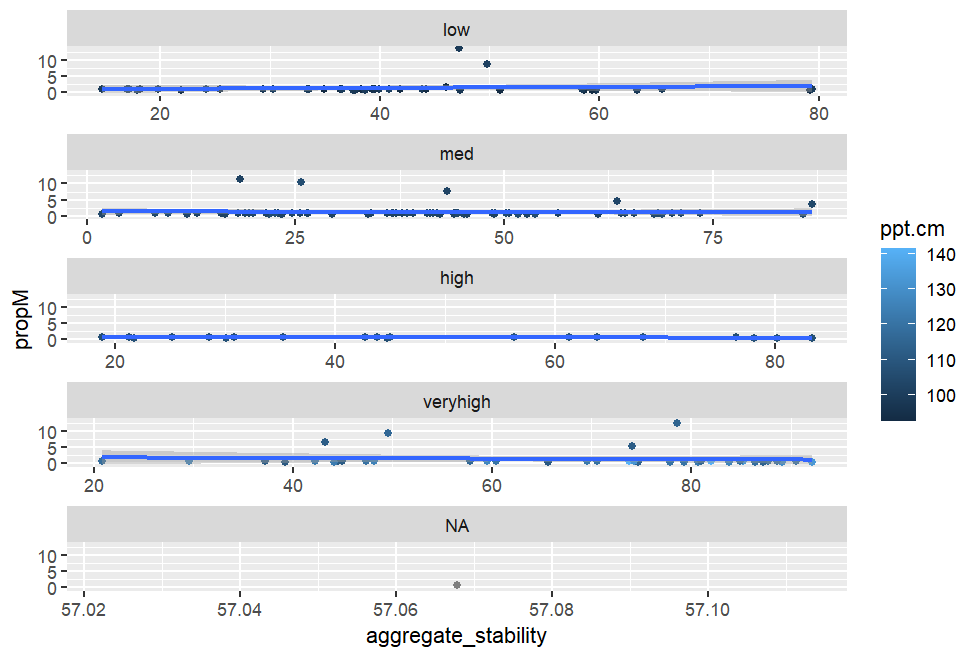
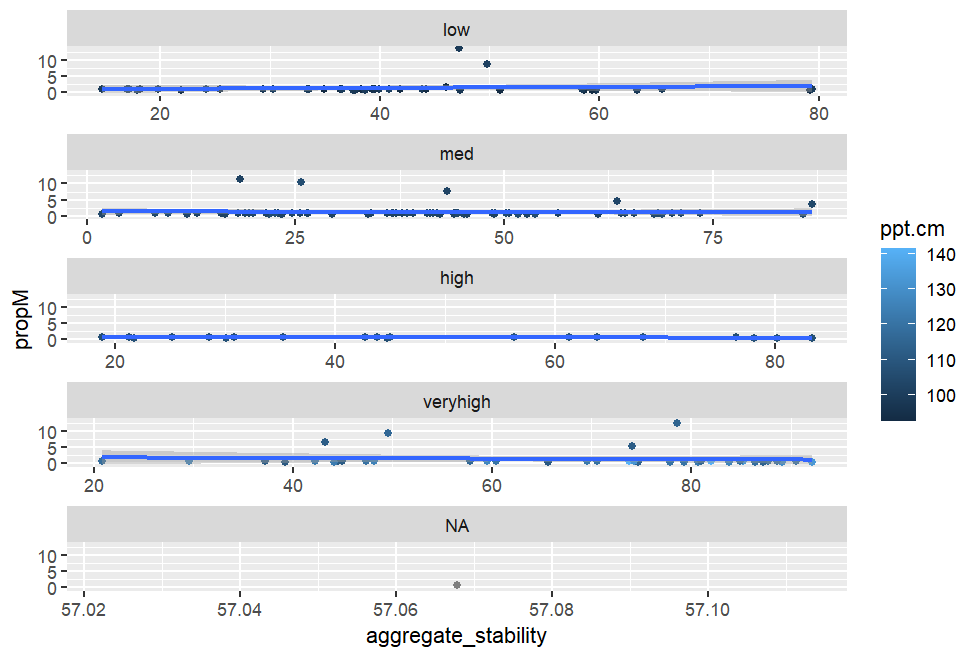
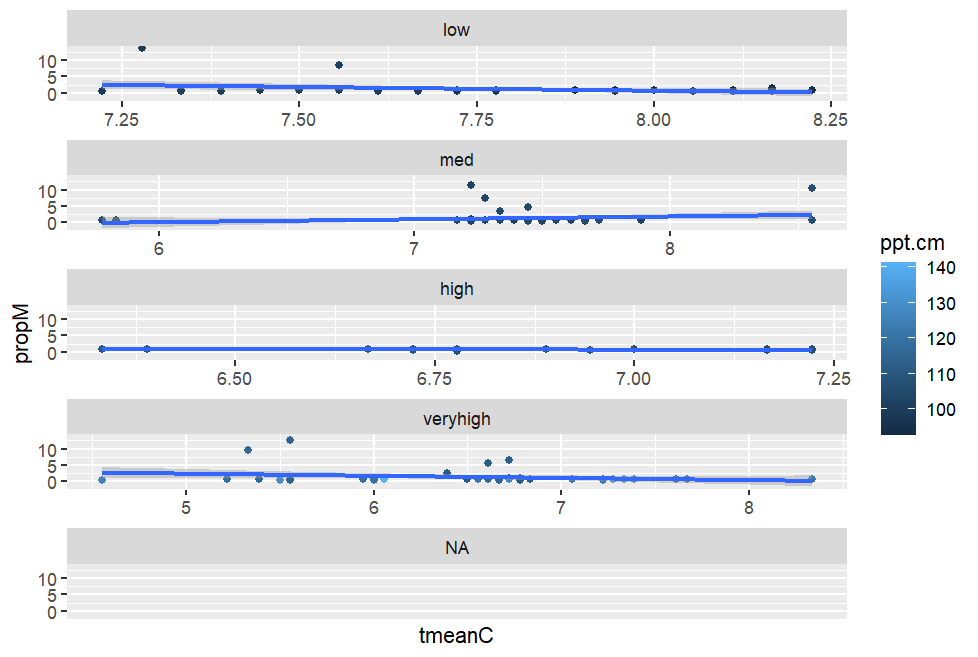
A chart of numbers and letters

Description automatically generated with medium confidence

None of these see to show any interactions.

> cordata

propM ph ppt.cm tmeanC

propM 1.000000000 0.08607281 -0.007366885 -0.07050430

ph 0.086072806 1.00000000 -0.269410734 0.29673331

ppt.cm -0.007366885 -0.26941073 1.000000000 -0.59675970

tmeanC -0.070504303 0.29673331 -0.596759699 1.00000000

aggregate\_stability 0.008326414 -0.28668284 0.478150191 -0.48201940

soil\_texture\_clay -0.098847663 0.20915982 -0.384000148 0.30338797

active\_carbon -0.069070403 0.26576349 -0.052193611 -0.07188615

aggregate\_stability soil\_texture\_clay active\_carbon

propM 0.008326414 -0.09884766 -0.06907040

ph -0.286682844 0.20915982 0.26576349

ppt.cm 0.478150191 -0.38400015 -0.05219361

tmeanC -0.482019400 0.30338797 -0.07188615

aggregate\_stability 1.000000000 -0.13085814 0.19375481

soil\_texture\_clay -0.130858143 1.00000000 0.35310211

active\_carbon 0.193754808 0.35310211 1.00000000

Looking for .7 or greater. Nope. Nothing. The closest is ppt and tmean, which makes sense.

A diagram of a graph

Description automatically generated with medium confidence

No interactions. No significant correlations. And the model show no significant p values

I ran many iterations of the model. No significant relationships were found. Here is the one with all the variables and no interactions:

m1M=gls(propM~ppt.cm+soil\_texture\_clay+

+ tmeanC+aggregate\_stability+active\_carbon+

+ ph, data=data, na.action=na.exclude, method="ML")

> summary(m1M)

Generalized least squares fit by maximum likelihood

Model: propM ~ ppt.cm + soil\_texture\_clay + tmeanC + aggregate\_stability + active\_carbon + ph

Data: data

AIC BIC logLik

743.6255 768.7118 -363.8127

Coefficients:

Value Std.Error t-value p-value

(Intercept) 4.303043 4.657908 0.9238144 0.3569

ppt.cm -0.026378 0.023949 -1.1014515 0.2723

soil\_texture\_clay -0.017501 0.017917 -0.9767966 0.3301

tmeanC -0.455448 0.319760 -1.4243407 0.1563

aggregate\_stability 0.004497 0.009161 0.4908813 0.6242

active\_carbon -0.001460 0.001240 -1.1773342 0.2408

ph 0.640303 0.349859 1.8301757 0.0691

A collage of graphs

Description automatically generated

A group of graphs showing different types of data

Description automatically generated

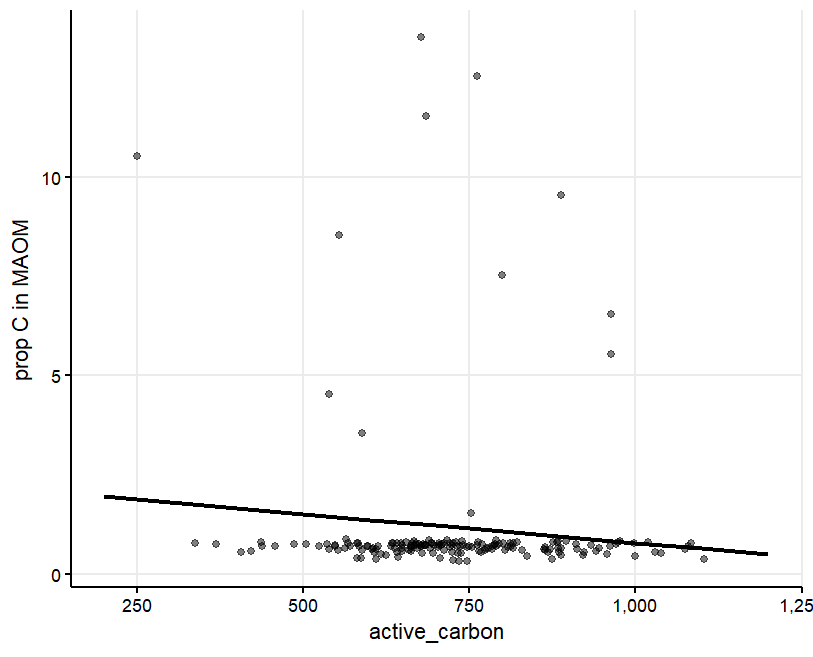
Looking for patterns (above). I don’t have enough experience to know what I am looking for. Seems no pattern to me.

Red and green lines (below) do not match up very well, but maybe well enough??A graph of different types of soil

Description automatically generated

Since none of the relationships were significant in the model, then it doesn’t make sense to make any of these graphs. However, I did anyway and they confirm the lack of significance.

A graph with a line and a line

Description automatically generated with medium confidenceA graph with a line and a line

Description automatically generated with medium confidenceA graph with a line graph

Description automatically generated with medium confidenceA graph with black dots

Description automatically generated

A graph of a number of crops

Description automatically generated

Why doesn’t this look right? Some sites have high proportions? It’s impossible to see anything here, so maybe Box plot isn’t the way to go.