

Experiment:

Goal 1: Effect of soils A vs B

Setting: 1 species: tomato, but 100 varieties

We expect the varieties may differ in their response to soil type

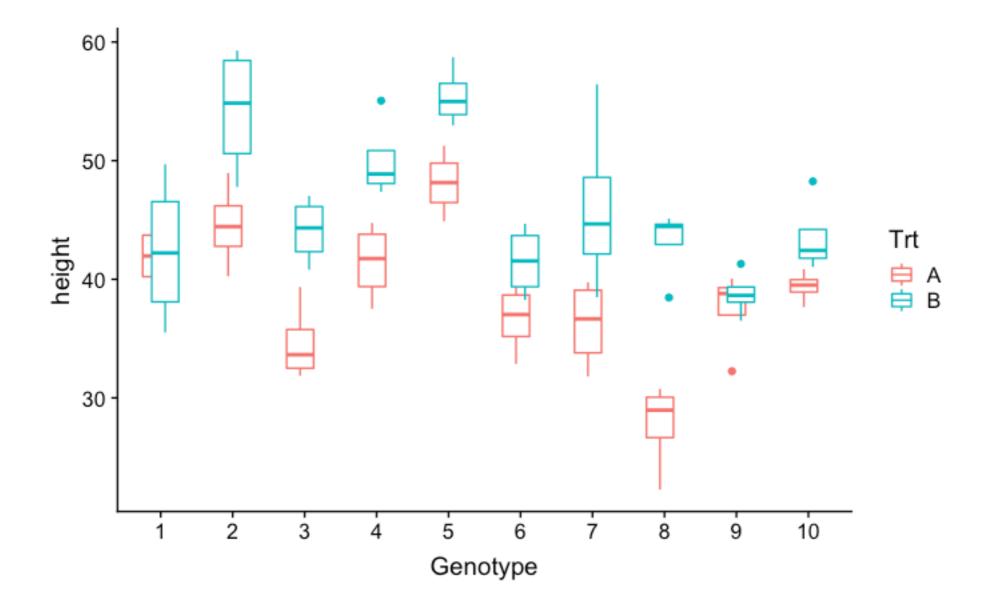
Limitation: We can only use 40 pots (with 2 plants/pot)

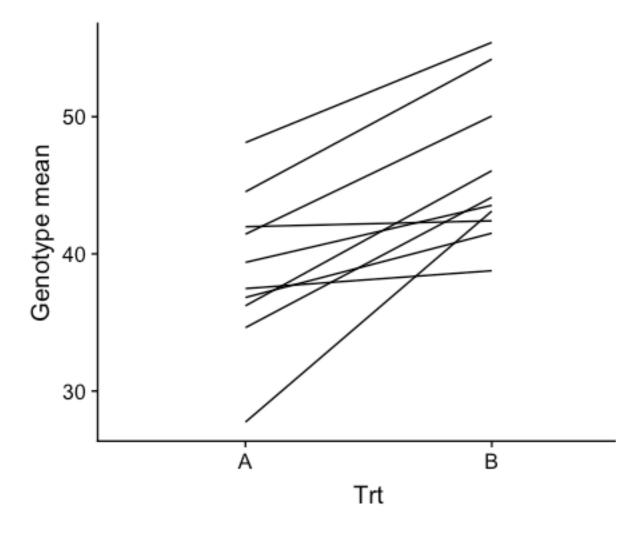
Design: Sample 10 varieties, 2 pots per variety:soil, 2 plants per plot

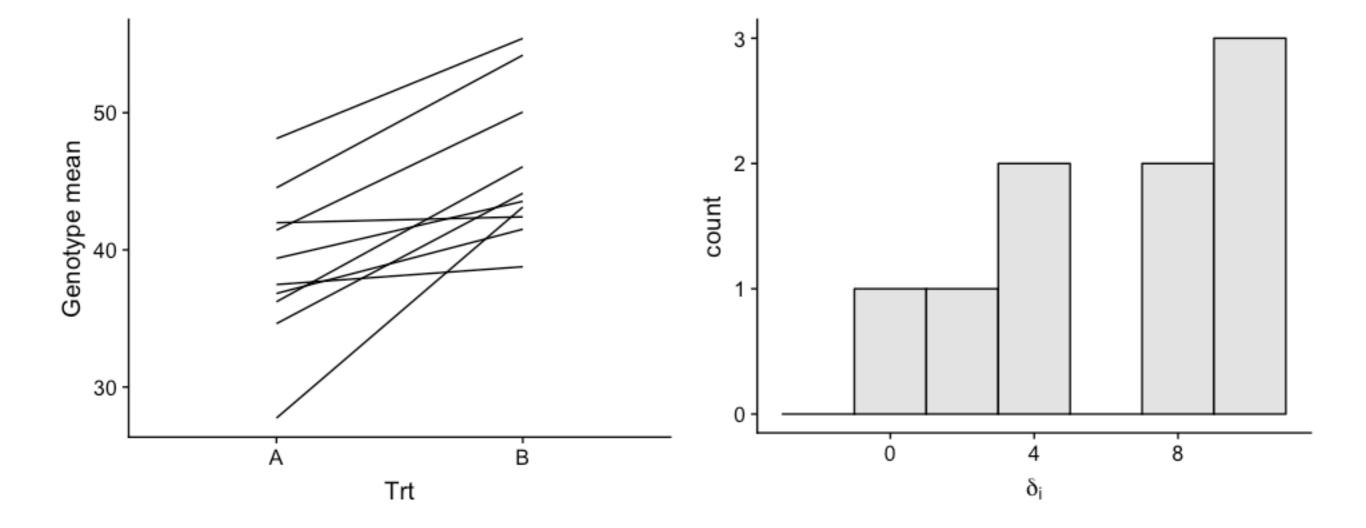
Variety

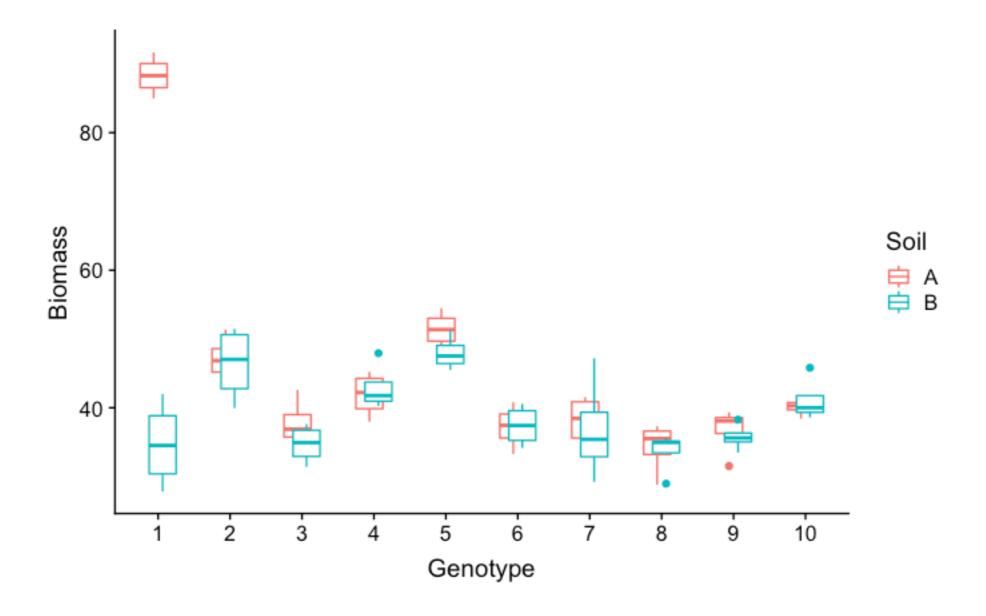
Soil:Pot

	1	2	3	4	5	6	7	8	9	10
A-1	хх									
A-2	хх									
B-1	ХХ									
B-2	хх									









	Type III Analysis of Variance Table with Kenward-Roger's method Sum Sq Mean Sq NumDF DenDF F value Pr(>F)									
Factorial	Soil 552.8 552.82 1 20 42.565 2.332e-06 ***									
ractorial	Genotype 3723.8 413.76 9 20 31.858 6.140e-10 ***									
	Soil:Genotype 3692.3 410.25 9 20 31.588 6.636e-10 ***									
	Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1									
	Tona TTT Analysis of Mariana Table with Kannad Baseda and bad									
	Type III Analysis of Variance Table with Kenward-Roger's method									
RCBD	Sum Sq Mean Sq NumDF DenDF F value Pr(>F)									
ПОВВ	Genotype 117.894 13.099 9 1.0086 0.4950									
	Soil 17.502 17.502 1 9 1.3476 0.2756									

Factorial

NOTE: Results may be misleading due to involvement in interactions

contrast estimate SE df t.ratio p.value A - B 6.14294 0.941561 20 6.524 <.0001

Results are averaged over the levels of: Genotype

RCBD

contrast estimate SE df t.ratio p.value A - B 6.14294 5.291771 9 1.161 0.2756

Results are averaged over the levels of: Genotype

