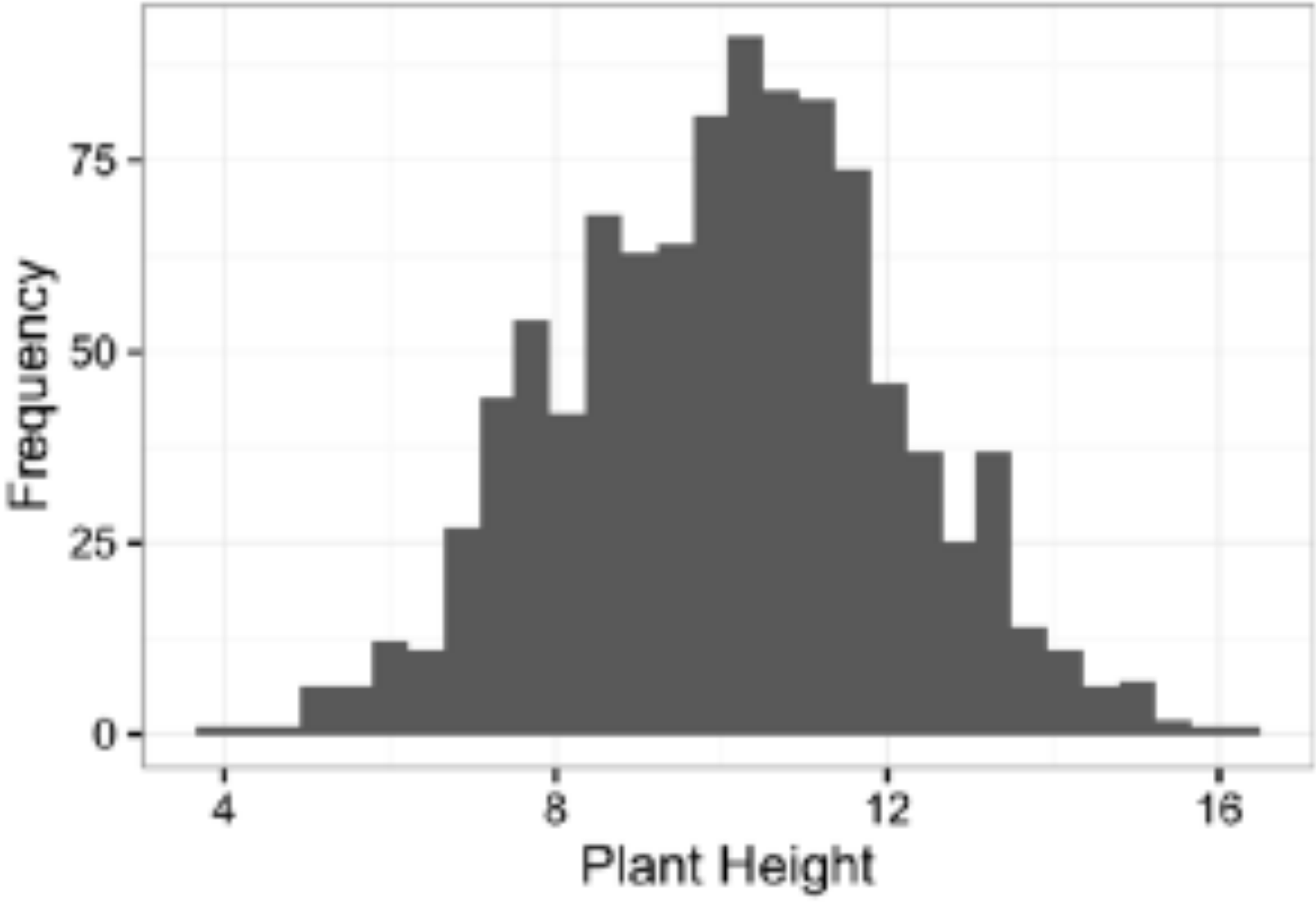
Response to Selection

The predicted magnitude of change in a quantitative trait.

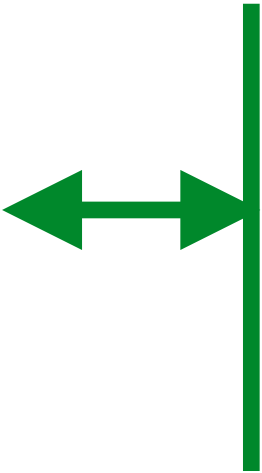
$$R = h^2 S$$


Frequency
75
50
25
0
4
8
12
16
Plant Height

Parental Average

Population Average

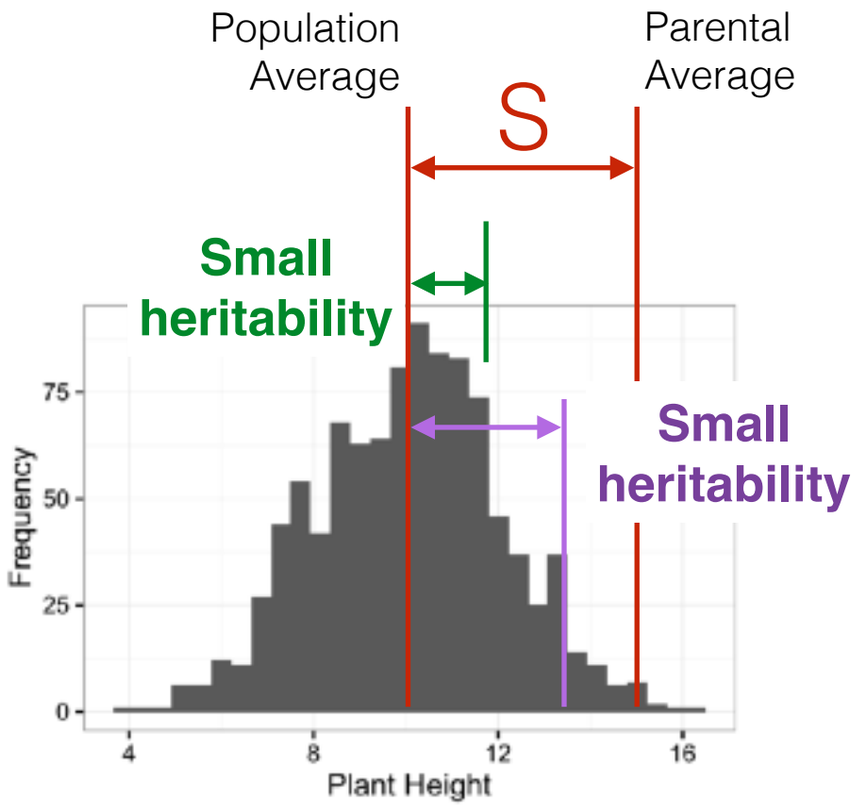
Small heritability



Small heritability

Response to Selection

The predicted magnitude of change in a quantitative trait.



$$R = h^2 S$$

Phenotypic Variance

- Can be partitioned into within and among components, creating an F_{ST}-like parameter if we collect family-level data.

$$Q_{ST} = \frac{\sigma^2_{population}}{\sigma^2_{population} + 8\sigma^2_{family}}$$