Breeder's Gains

$$=rac{ir\sigma_g}{Y}$$

Breeder's Risk

$$ext{SR} = rac{i(1-r)\sigma_{gxe}}{T}$$

 ΔG : Genetic gain per cycle i: Selection intensity r: Selection accuracy σ_g : genetic standard deviation Y: Length of time over cycle SR : Selection Risk i: Selection intensity r: Selection accuracy σ_{gxe} : genetic by environmental standard deviation

T: Number of trials