

Selection Cheat Sheet by Tiffy □ (tiffy-blues) via cheatography.com/147286/cs/32020/

ΔG or R is due to:

- 1. artificial selection among ADULTS of parent generation
- 2. natural differences in FERTILITY among individuals of PARENT generation
- 3. natural differences in VIABILITY among individuals of OFFSPRING generation

response to selection (R)

- = change in population mean due to selection
- = mean phenotypic value of offspring generation mean of whole parental generation

before selection

measure of selection applied = selection differ-

= mean phenotypic value of individuals selected as parents

ential = S

= expressed as a deviation from the population mean

Selection

process in which certain individuals in a population are preferred to others for the production of the next generation

does not create new genes

AIM: to increase f (desirable genes)

to decrease f (undesirable

genes)

FORMS: on the basis of phenotype

on the basis of breeding value

Basic

on the basis of **breeding value**

Effect:

changes the array of gene frequencies (although almost

completely hidden)

→ can be observed through

changes in the MEAN

How to compare successive genera-Describe tions at the same point in the life

Change: cycle of the individuals

Parent Population gene freq = Population gene freq = Ps



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