Summary

Introduction

Materials and Methods

Basic explanation of the models. We modeled a stage-structured population in two stages: immatures and matures. The demography is given by a transition matrix, with...

From ENGEN ET AL (REF NEEDED), we derived equations for mean variation of phenotype on our model.

We have for variations of phenotype, under weak selection:

$$\Delta\overline{z} = (\theta_f - \overline{z})\left[\frac{v_I u_I G_I s_0 m \overline{f}_1}{\lambda(P_I + \omega_f)} + \frac{v_I u_M G_M s_0 \overline{f}_2}{\lambda(P_M + \omega_f)}\right] + (\theta_s - \overline{z})\left[\frac{v_I u_I G_I \overline{s}_I (1-m)}{\lambda(P_I + \omega_s)}\right] \tag{1}$$

Within the square brackets, we see weighting average of fecundity and survival. Thus, we define them as γ_f and γ_s such as:

$$\gamma_f = \frac{v_I u_I G_I s_0 m \overline{f}_1}{\lambda(P_I + \omega_f)} + \frac{v_I u_M G_M s_0 \overline{f}_2}{\lambda(P_M + \omega_f)} \tag{2a}$$

and

$$\gamma_s = \frac{v_I u_I G_I \overline{s}_I (1-m)}{\lambda(P_I + \omega_s)} \tag{2b}$$

Results

Subheading1

Subheading2

Discussion

Authors Contributions and Acknowledgments

References