Fine-scale source-sink dynamics

No direct evidence without geneflow or dispersal data, but variation in $\ln(\lambda)$ across space (as tested in "Spatial Asynchrony") is a necessary pre-requisite.

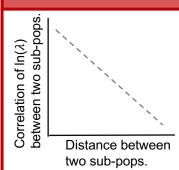
Demographic compensation

Correlation matrix of environmental covariate effect sizes in different vital rate models

	Growth	Surv. model	Repro. model
Growth model	1	< 0* (P<0.05)	< 0* (P<0.05)
Surv. model		1	< 0* (P<0.05)
Repro. model			1

^{*} At least one significant negative correlation

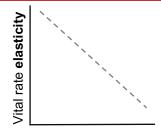
Spatial asynchrony



Long-term persistence of *O. coloradensis* populations

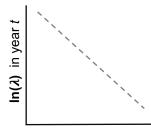


Vital rate buffering



Vital rate parameter **variability**

Negative density dependence



Pop. size in year t-