

α	s	λ	LHS	l_α	b	RHS	s_o	s_1
3.0000	0.9500	0.9760	0.0248	0.1026	0.2400	0.0246	0.1500	0.7200
lambda=	0.9760							
initial pop	12000							

Government Study

α	s	λ	LHS	l_α	b	RHS	s_o	s_1
4.0000	0.8500	0.8680	0.0118	0.0425	0.2800	0.0119	0.1000	0.5000
lambda=	0.8680							
initial pop	12000							

**University
Biologists**

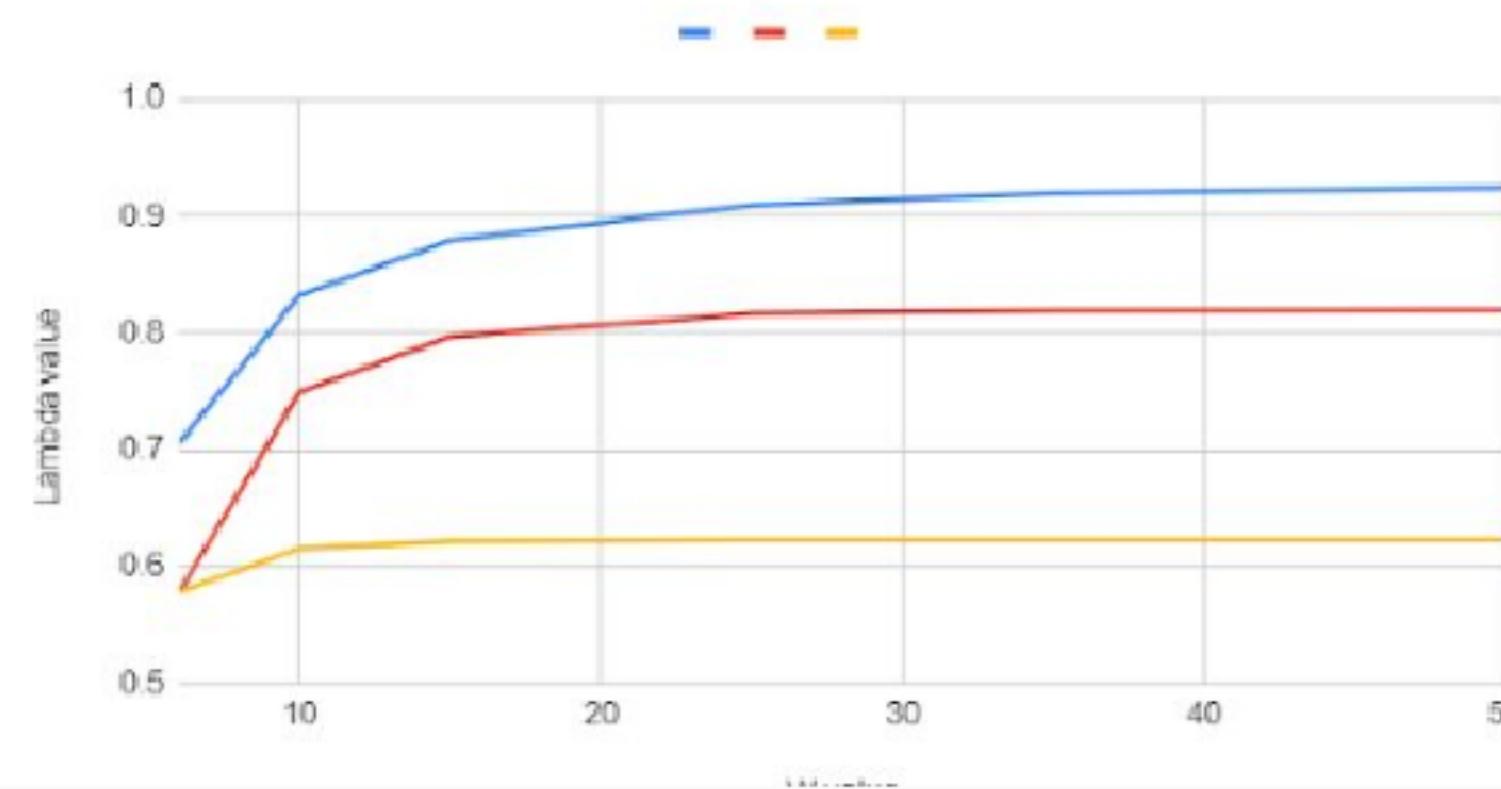
α	s	λ	LHS	l_α	b	RHS	s_0	s_1
2.0000	0.6500	0.6540	0.0026	0.0114	0.2000	0.0023	0.0500	0.3500
lambda=	0.6540							
initial pop	12000							
crash	22							

2. The Sierra Club study has different results because the survivability ratios are much less than the other two studies, specifically the sub-adult survival probability. This number causes the over-all adult survival probability to be lower, meaning that fewer females are producing female offspring. This offsets their data showing that the animals start breeding earlier than the other data sets show.

- a. Sunshine Moonbeam's data is off because the data they used had comparatively lower survival rates. This skewed the LA and generated a lower number for the right hand side. Which meant a low number was needed for lambda on the left hand side so that the right and left hand sides were equal.

Second Task: Relative to the other two data sets, the fecundity and adult annual survivability are low for the Sunshine Moonbeam study. These two parameters are likely the reason for the quick population crash. Lower values of fecundity and survivability are a bad combination for this species. In set #3, the adults start breeding a year earlier than in the other studies, but still this isn't enough to keep the population stable from the low s and low b .

Lambda as a function of the W parameter



Lambda as a function of the W parameter

