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Nathan Schumaker <[redacted]>

Results from HexSim Scenario "Alpha"

1 message

Nathan Schumaker <[redacted]> **Sat, Aug 7, 2010 at 10:49 AM**
To: Bob Anthony <robert.anthony@oregonstate.edu>, Brendan White <Brendan_White@fws.gov>, Brian Woodbridge <Brian_Woodbridge@fws.gov>, Bruce Marcot <brucem@spiritone.com>, Craig Ducey <Craig_Ducey@or.blm.gov>, Dave LaPlante <dave@nrg-gis.com>, Eric Greenquist <Eric_Greenquist@blm.gov>, Jeffrey Dunk <Jeffrey.Dunk@humboldt.edu>, Jim Thrailkill <Jim_Thrailkill@fws.gov>, Katie Dugger <katie.dugger@orst.edu>, Marty Raphael <mraphael@fs.fed.us>, Nathan Schumaker <[redacted]>, Ray Davis <rjdavis@fs.fed.us>

Hello all,

Based on the feedback I've gotten recently, I went ahead and crafted a new set of province-by-province HexSim resource targets. I cross-walked them to the modeling regions, as I always do. Then ran one simulation for each. The results, particularly at the DCA scale, are variable enough that an average of multiple replicate simulations would be nicer. I can get to that...

The attached PDF file shows how I set up the resource targets (page 1). There were 6 scenarios, each giving a slightly different final population size (page 2). I report the results, stratified by modeling region (pages 3-8), and by DCA (pages 9-14).

Note that the y-axis maximum value changes from plot to plot.

If we were to assume that the current population consists of 3000 female NSOs (just for sake of argument), then current conditions would correspond roughly to someplace between years 10 and 30.

That's it for now. Thanks in advance for any reactions you send back.

Nathan

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Nathan Schumaker
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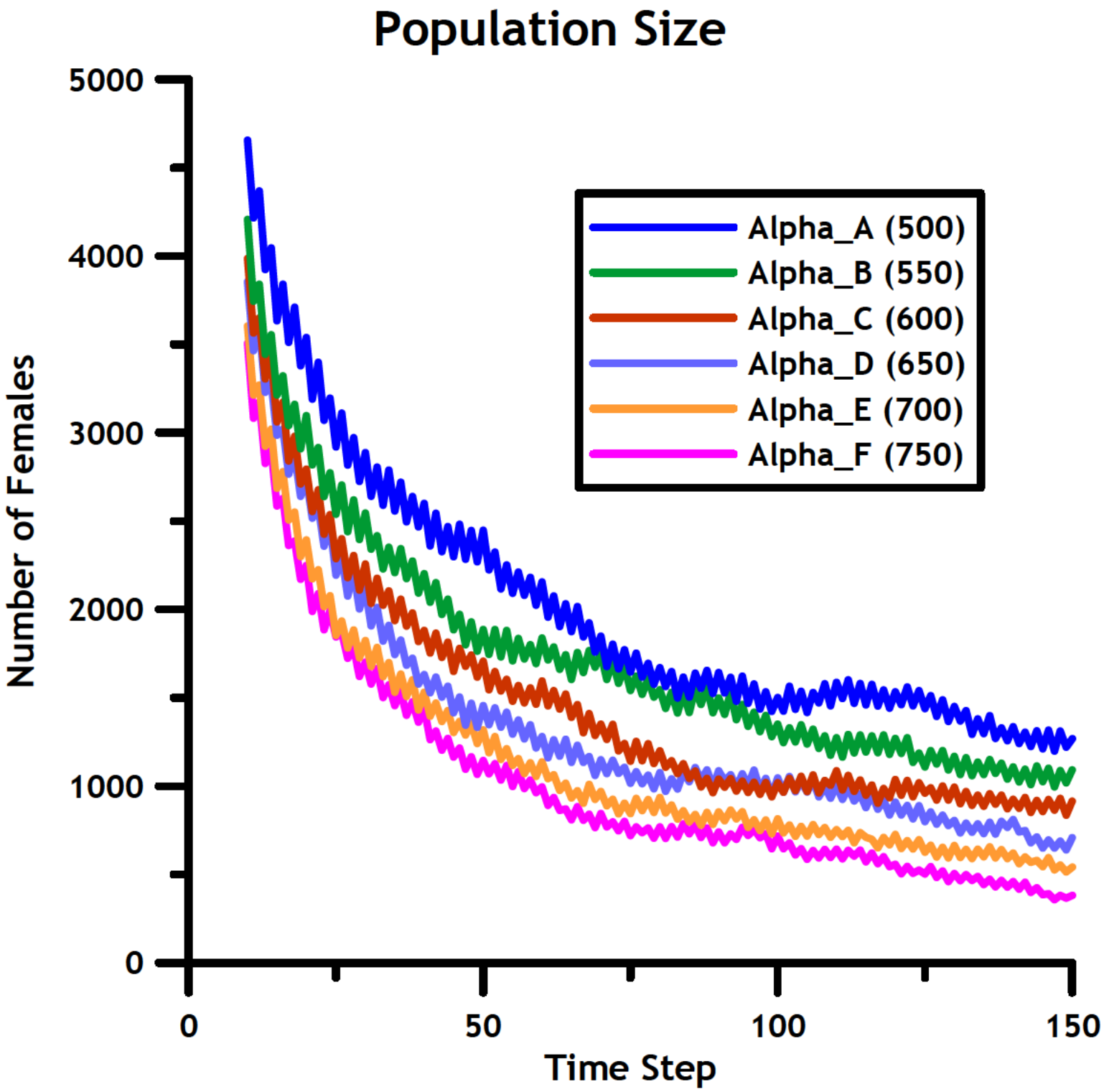
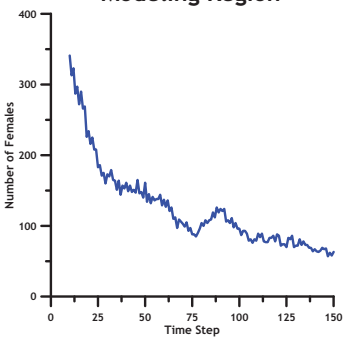
Results for HexSim Scenario Alpha.pdf
266K

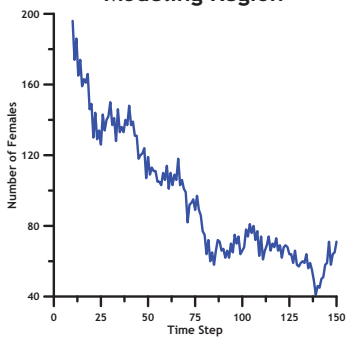
Modeling Region	Province	Scaling Term	Scenario Name: Alpha					
			A	B	C	D	E	F
			500 * Scaling Term	550 * Scaling Term	600 * Scaling Term	650 * Scaling Term	700 * Scaling Term	750 * Scaling Term
North Coast Olympics	WA Olympic	3.0	1500	1650	1800	1950	2100	2250
Oregon Coast	OR Coast Range	1.5	750	825	900	975	1050	1125
East Cascades South	OR Klamath	1.5	750	825	900	975	1050	1125
East Cascades North	WA Cascades	2.5	1250	1375	1500	1625	1750	1875
West Cascades North	WA Cascades	2.5	1250	1375	1500	1625	1750	1875
West Cascades Central	WA Cascades	2.5	1250	1375	1500	1625	1750	1875
West Cascades South	OR Cascades	1.5	750	825	900	975	1050	1125
Klamath East	OR Klamath	1.0	500	550	600	650	700	750
Klamath West	OR Klamath	1.0	500	550	600	650	700	750
Inner CA Coast Range	CA Klamath	1.0	500	550	600	650	700	750
Redwood Coast	CA Redwood	1.0	500	550	600	650	700	750
Puget Willamette North	WA Cascades	2.5	1250	1375	1500	1625	1750	1875
Puget Willamette West	OR Cascades	2.0	1000	1100	1200	1300	1400	1500
Puget Willamette East	OR Cascades	2.0	1000	1100	1200	1300	1400	1500


Population Size
5000
4000
3000
2000
1000
0
Number of Females
0
50
100
150
Time Step
Alpha_A (500)
Alpha_B (550)
Alpha_C (600)
Alpha_D (650)
Alpha_E (700)
Alpha_F (750)

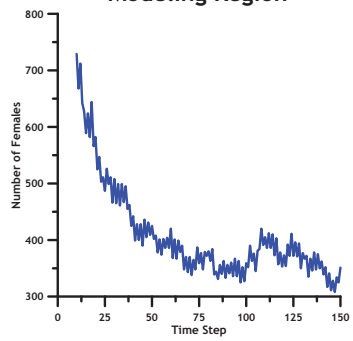
East Cascades North Modeling Region



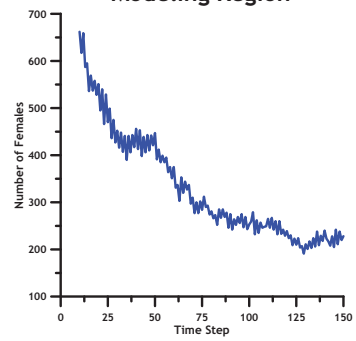
East Cascades South Modeling Region



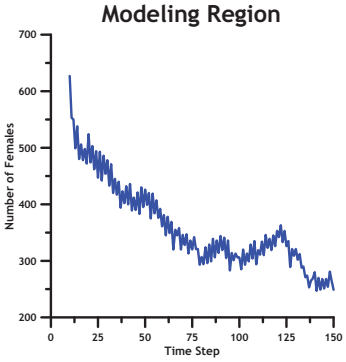
Inner CA Coast Ranges Modeling Region



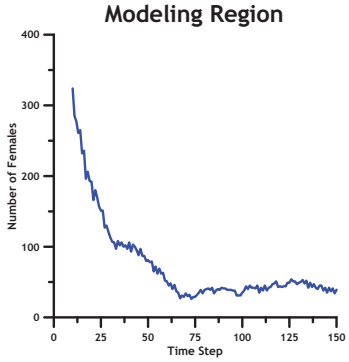
Klamath East Modeling Region



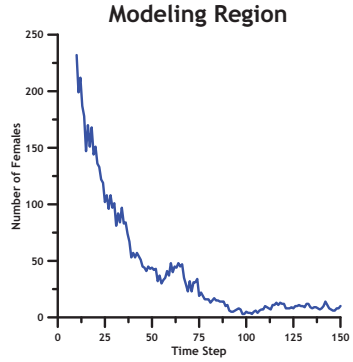
Klamath West Modeling Region



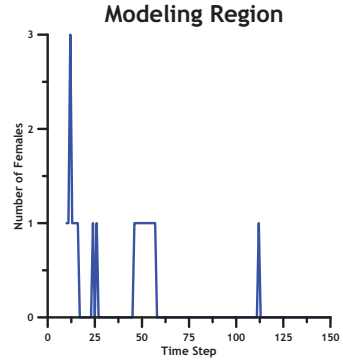
North Coast Olympics Modeling Region



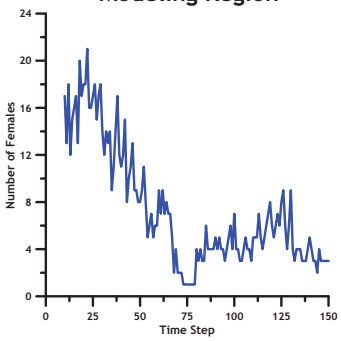
Oregon Coast Modeling Region



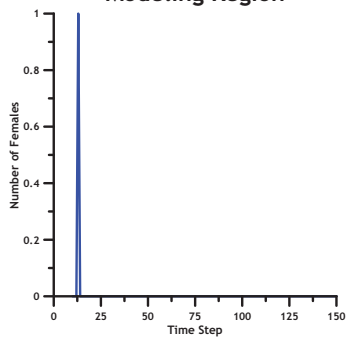
Puget Willamette East Modeling Region



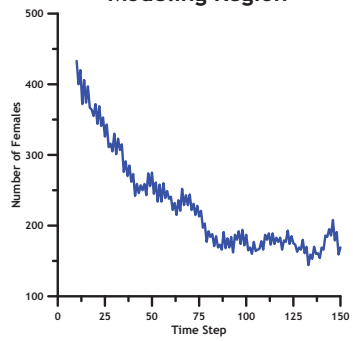
Puget Willamette North Modeling Region



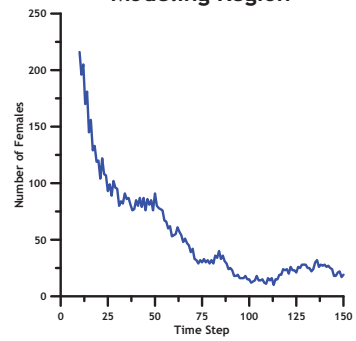
Puget Willamette West Modeling Region



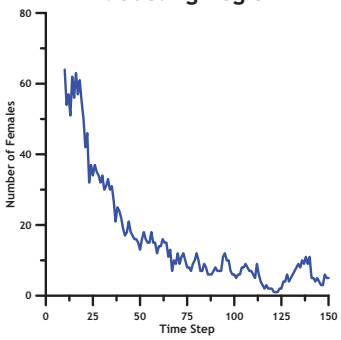
Redwood Coast Modeling Region



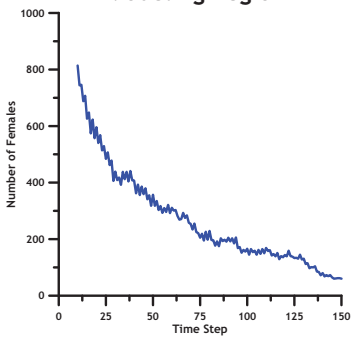
West Cascades Central Modeling Region



West Cascades North Modeling Region



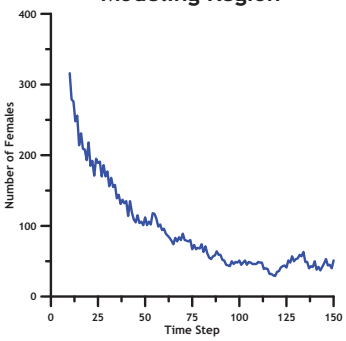
West Cascades South Modeling Region



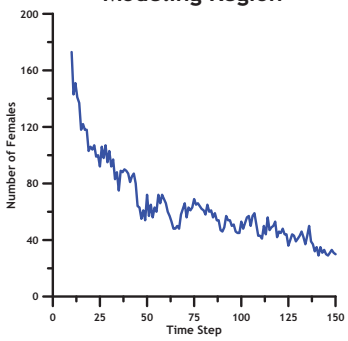
Scenario: Alpha_A (Mulitplier = 500)

Regional Trends

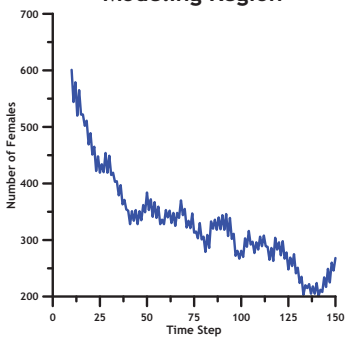
East Cascades North Modeling Region



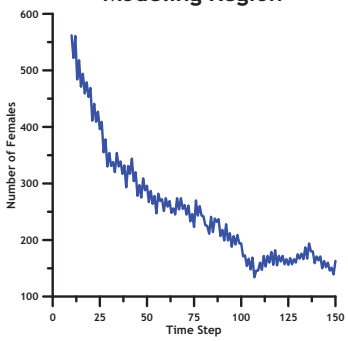
East Cascades South Modeling Region



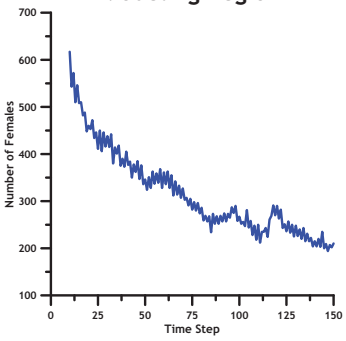
Inner CA Coast Ranges Modeling Region



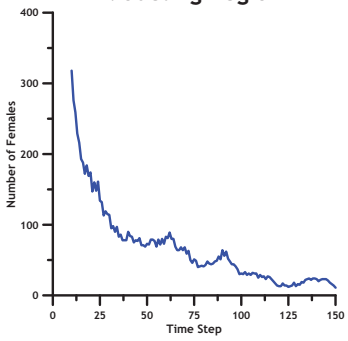
Klamath East Modeling Region



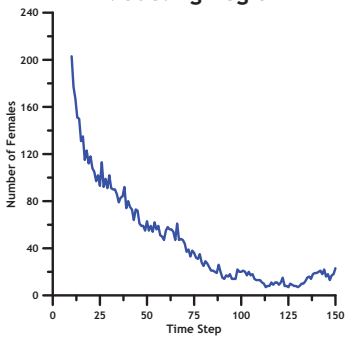
Klamath West Modeling Region



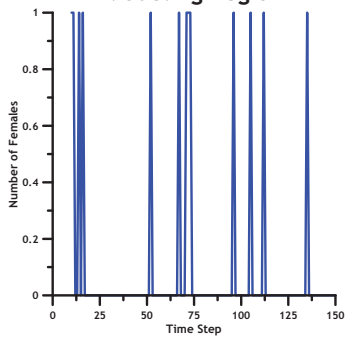
North Coast Olympics Modeling Region



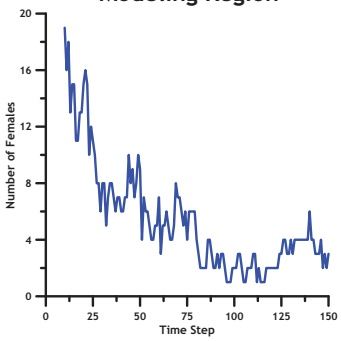
Oregon Coast Modeling Region



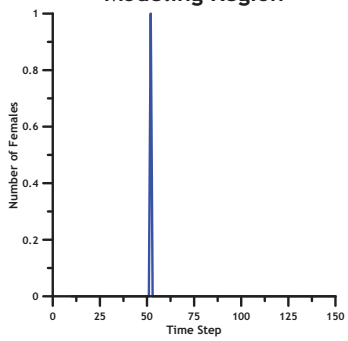
Puget Willamette East Modeling Region



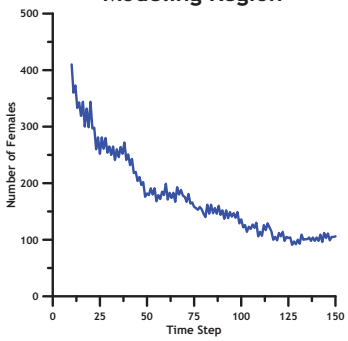
Puget Willamette North Modeling Region



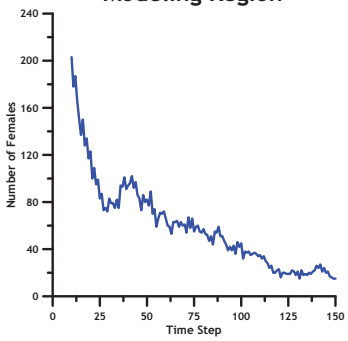
Puget Willamette West Modeling Region



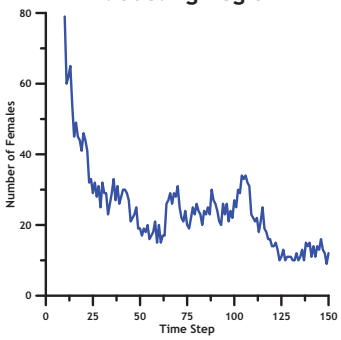
Redwood Coast Modeling Region



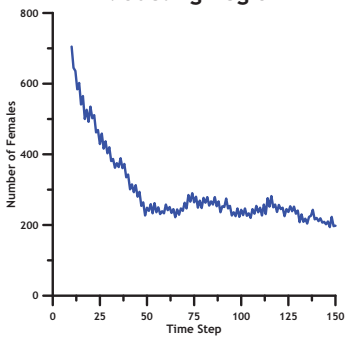
West Cascades Central Modeling Region



West Cascades North Modeling Region



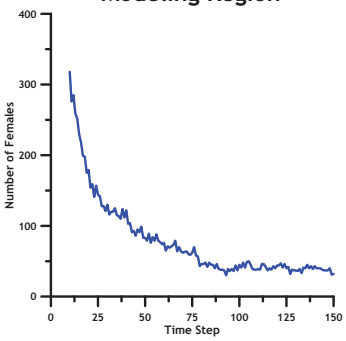
West Cascades South Modeling Region



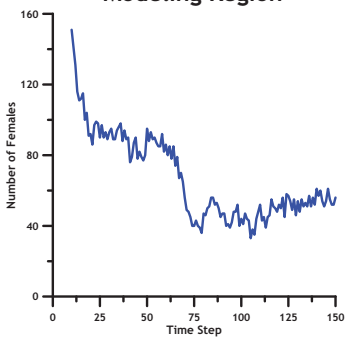
Scenario: Alpha_B (Mulitplier = 550)

Regional Trends

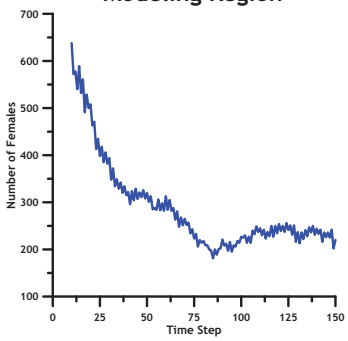
East Cascades North Modeling Region



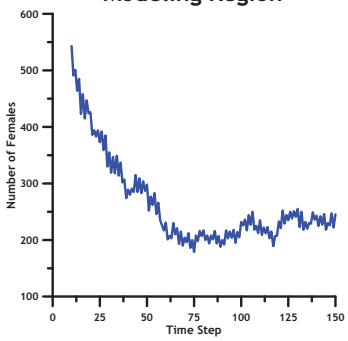
East Cascades South Modeling Region



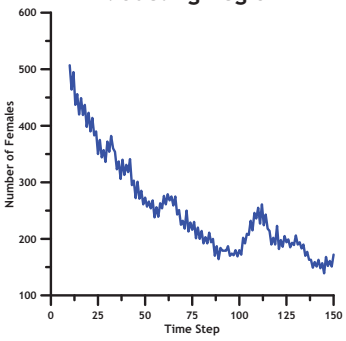
Inner CA Coast Ranges Modeling Region



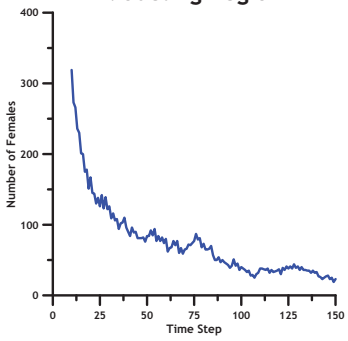
Klamath East Modeling Region



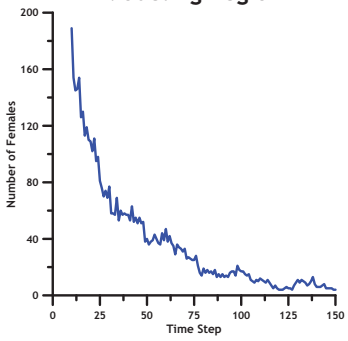
Klamath West Modeling Region



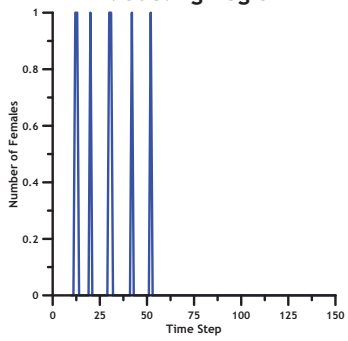
North Coast Olympics Modeling Region



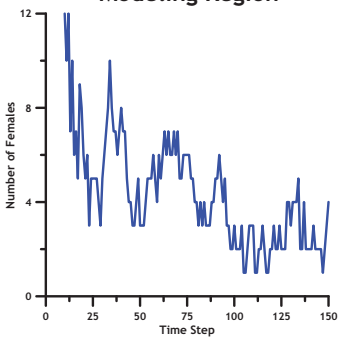
Oregon Coast Modeling Region



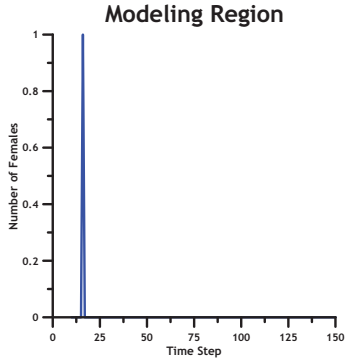
Puget Willamette East Modeling Region



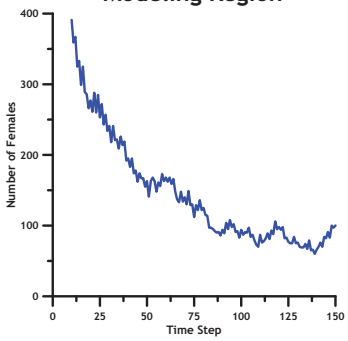
Puget Willamette North Modeling Region



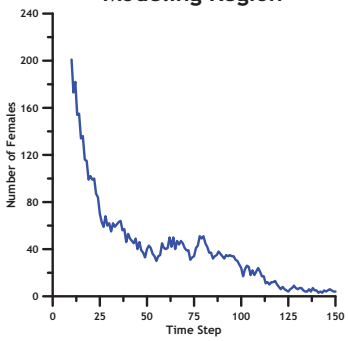
Puget Willamette West Modeling Region



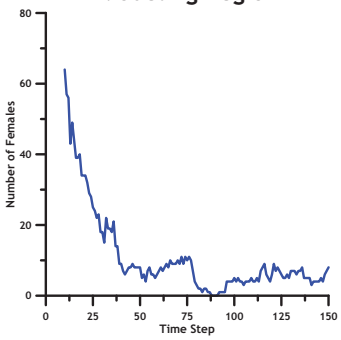
Redwood Coast Modeling Region



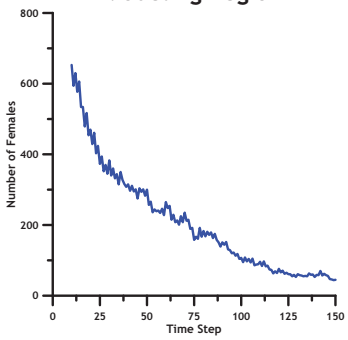
West Cascades Central Modeling Region



West Cascades North Modeling Region

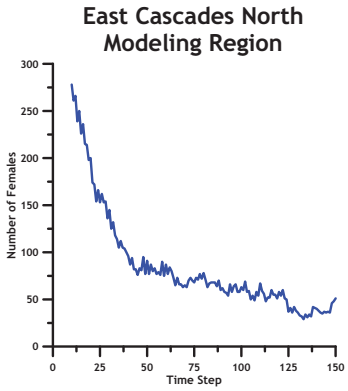


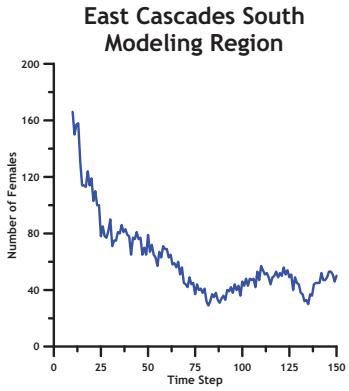
West Cascades South Modeling Region

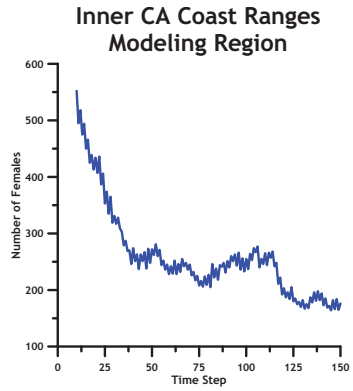


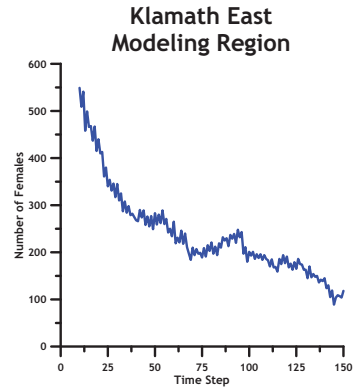
Scenario: Alpha_C (Mulitplier = 600)

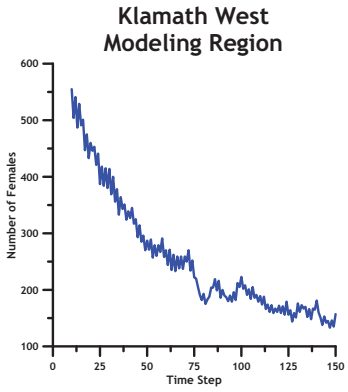
Regional Trends

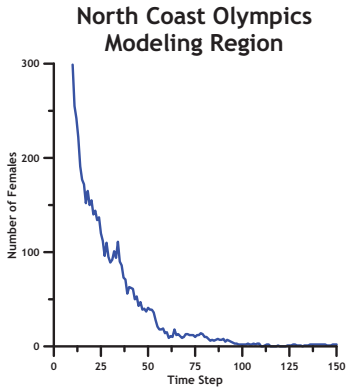


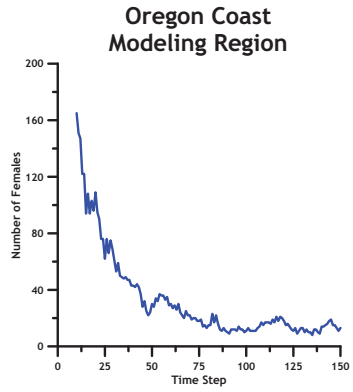


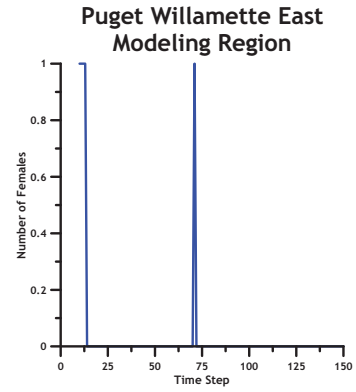


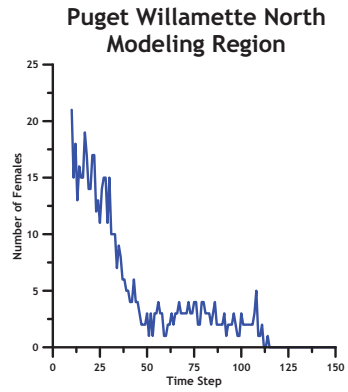


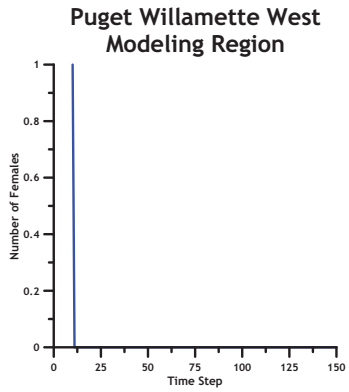


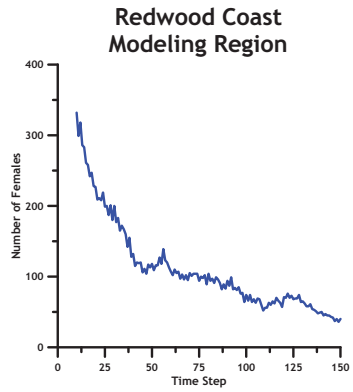


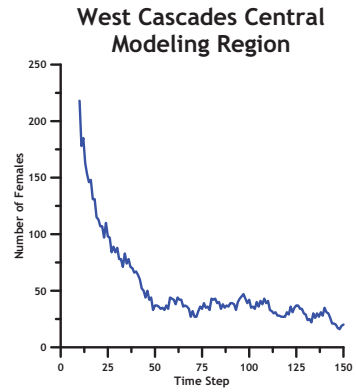


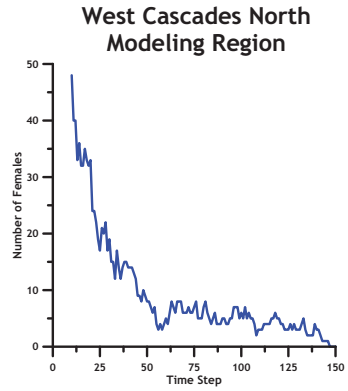


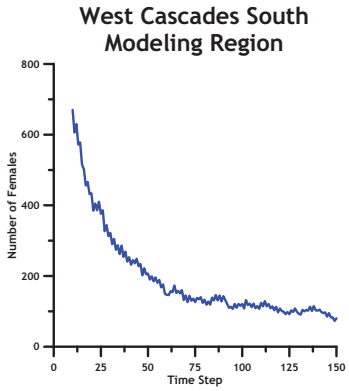






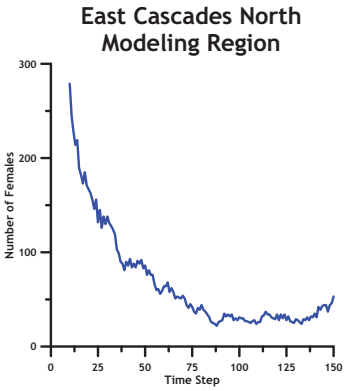


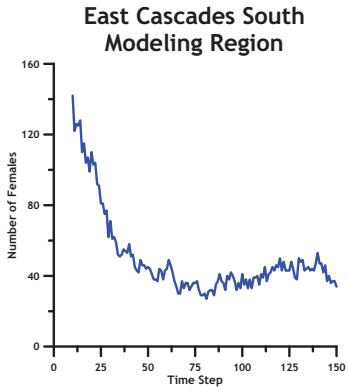


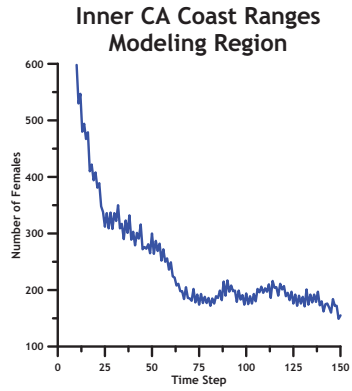


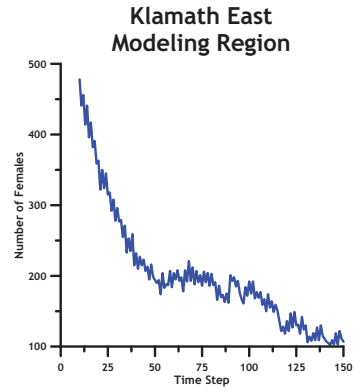
Scenario: Alpha_D (Mulitplier = 650)

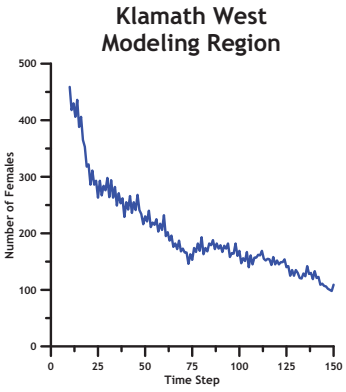
Regional Trends

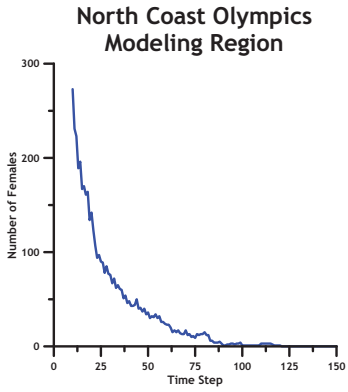


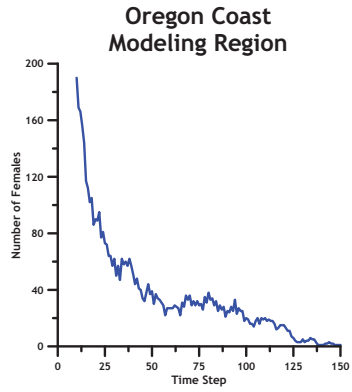


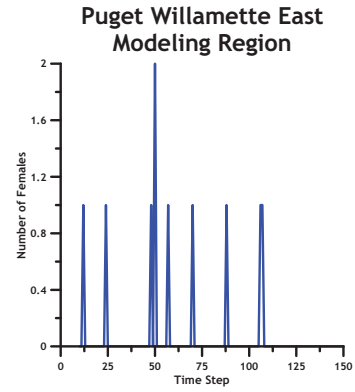


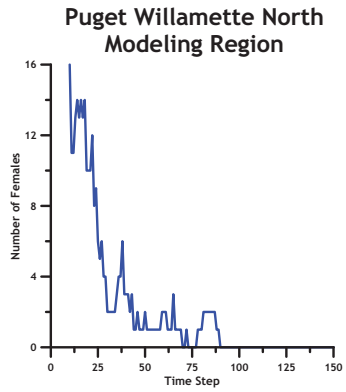


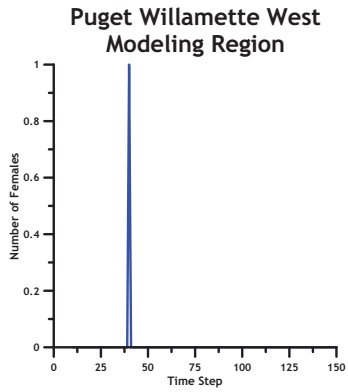


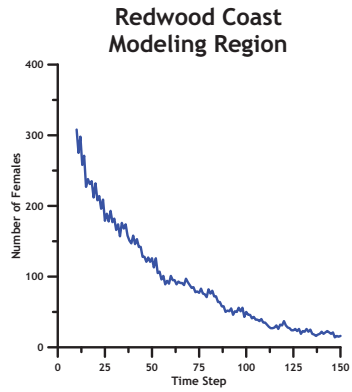


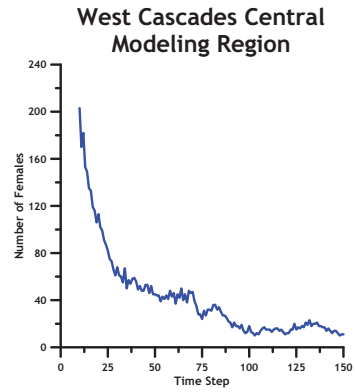


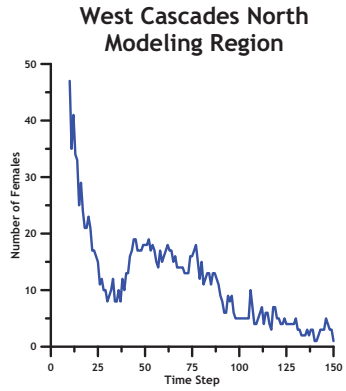


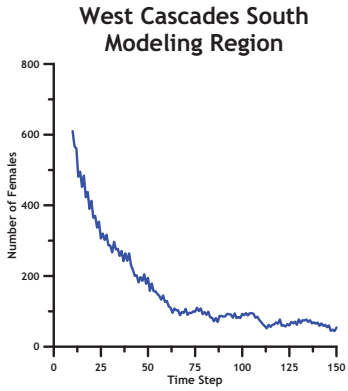








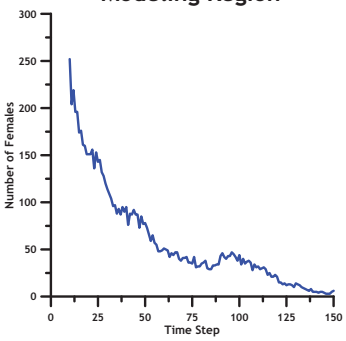




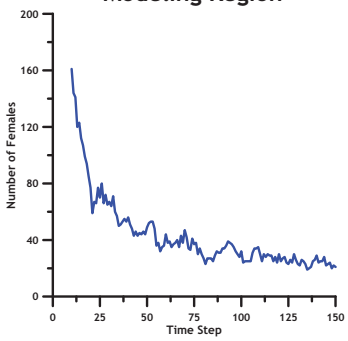
Scenario: Alpha_E (Mulitplier = 700)

Regional Trends

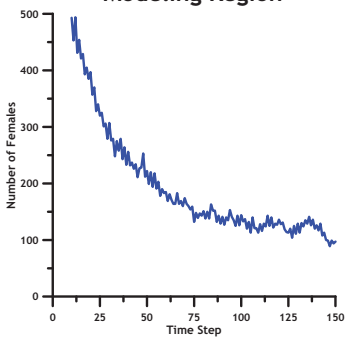
East Cascades North Modeling Region



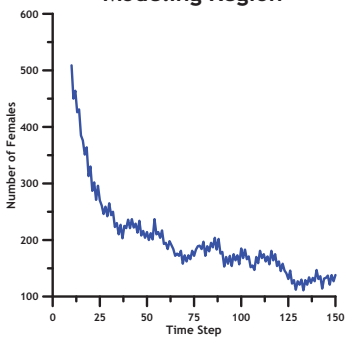
East Cascades South Modeling Region



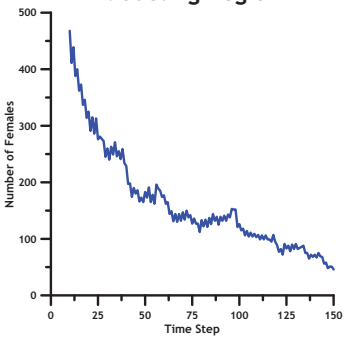
Inner CA Coast Ranges Modeling Region



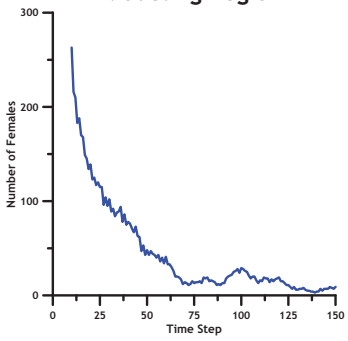
Klamath East Modeling Region



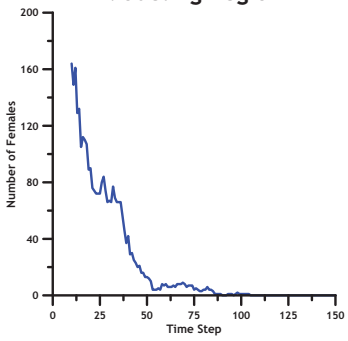
Klamath West Modeling Region



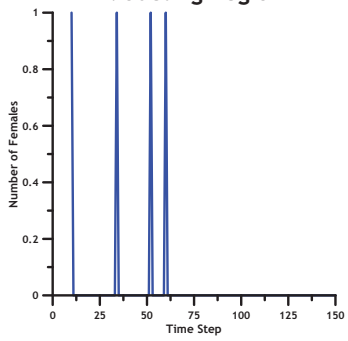
North Coast Olympics Modeling Region



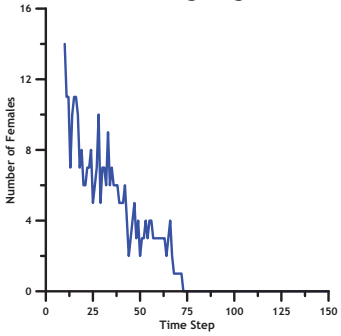
Oregon Coast Modeling Region



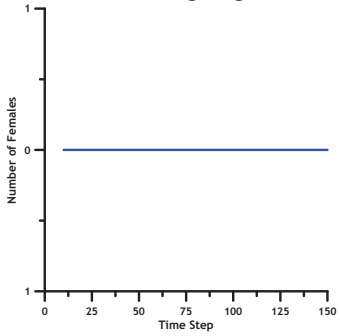
Puget Willamette East Modeling Region



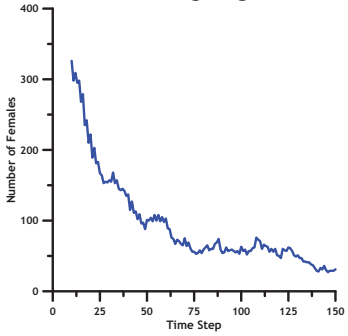
Puget Willamette North Modeling Region



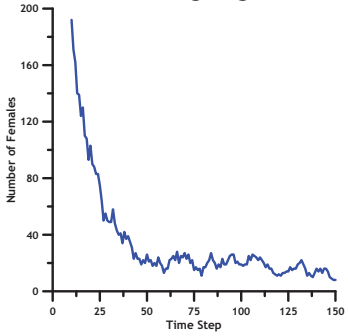
Puget Willamette West Modeling Region



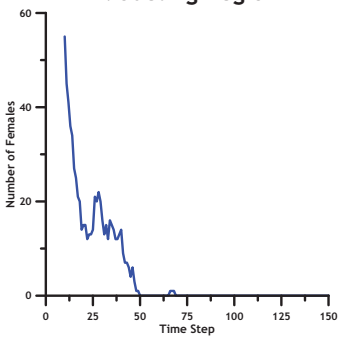
Redwood Coast Modeling Region



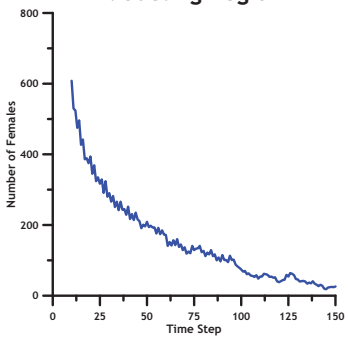
West Cascades Central Modeling Region



West Cascades North Modeling Region

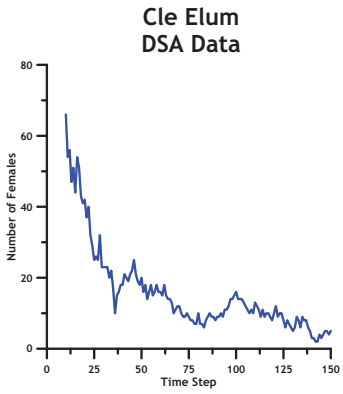


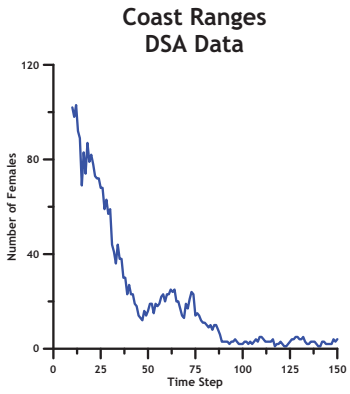
West Cascades South Modeling Region

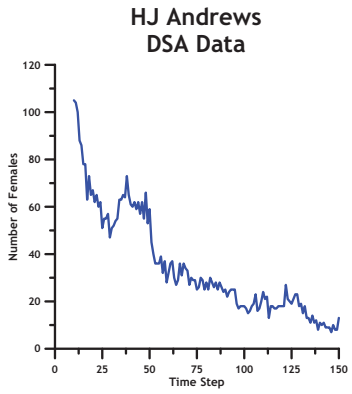


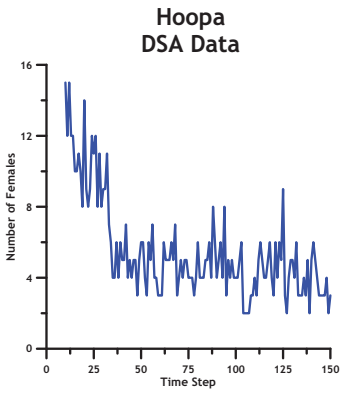
Scenario: Alpha_F (Mulitplier = 750)

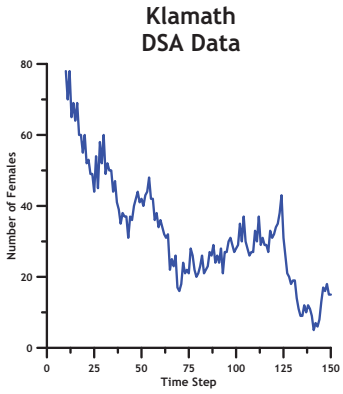
Regional Trends

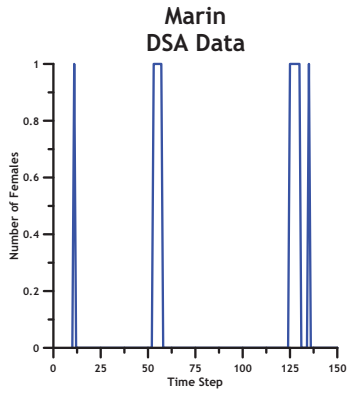


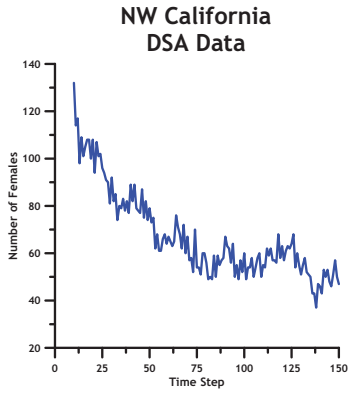


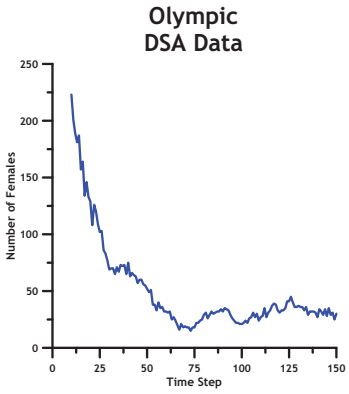


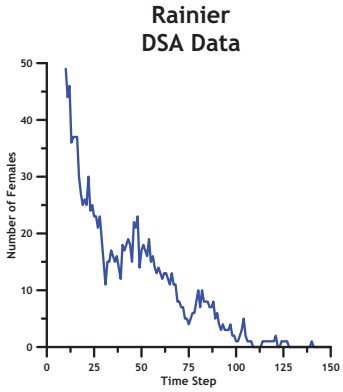


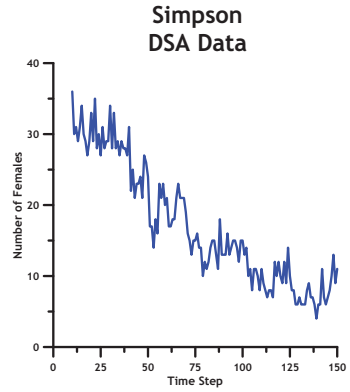


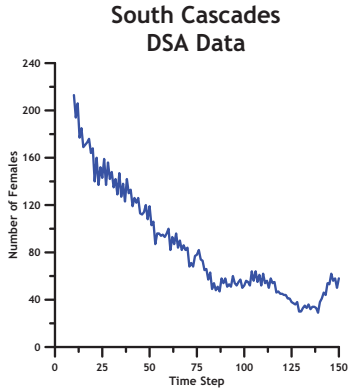


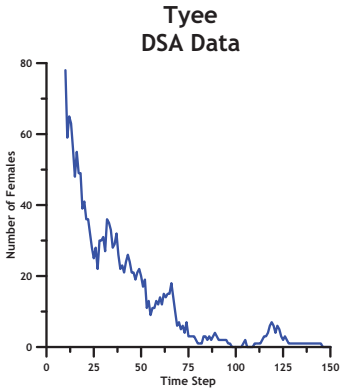


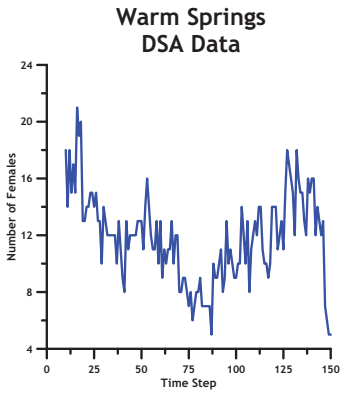


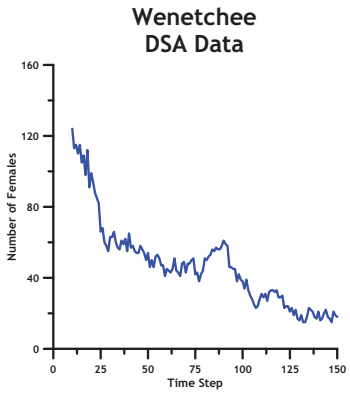






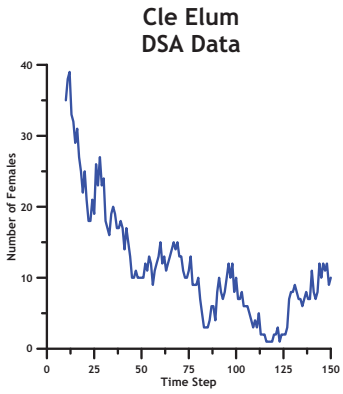


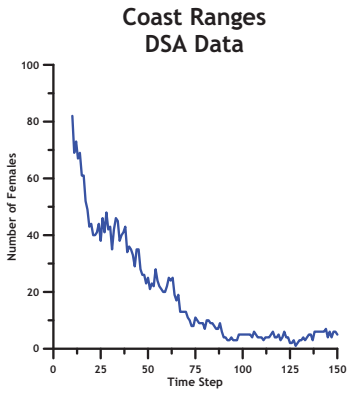


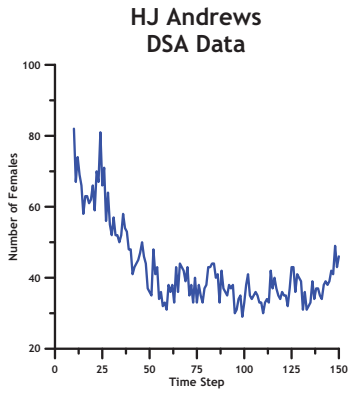


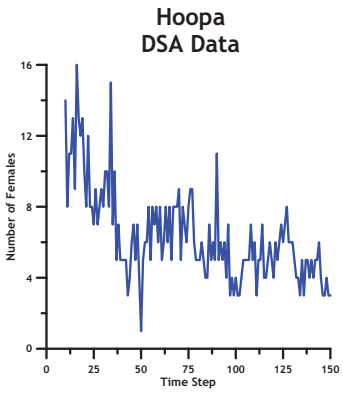
Scenario: Alpha_A (Mulitplier = 500)

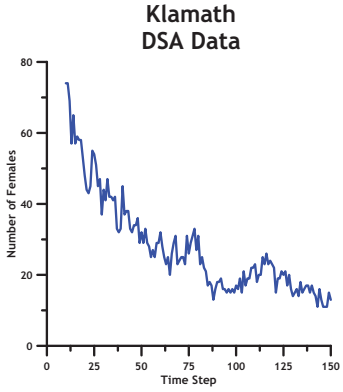
DCA Trends

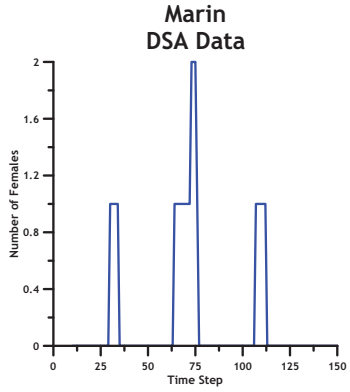


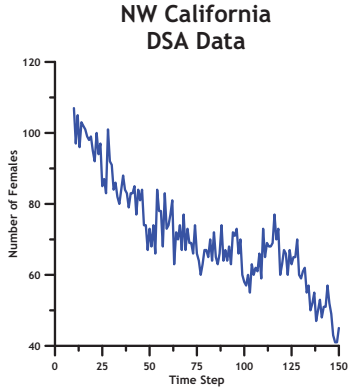


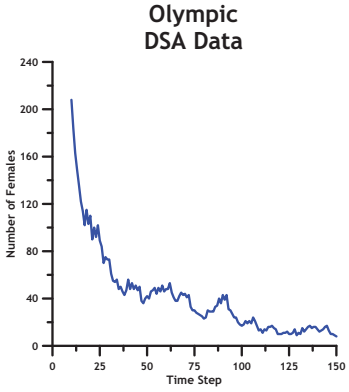


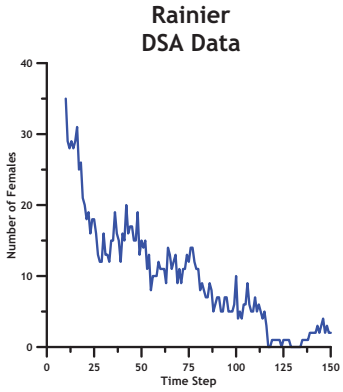


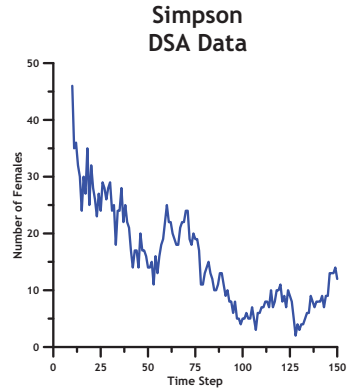


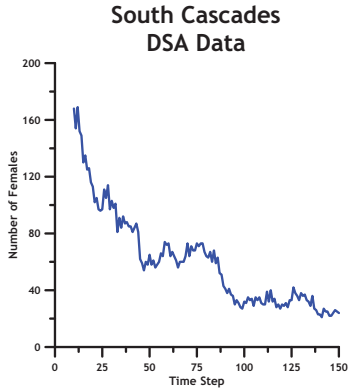


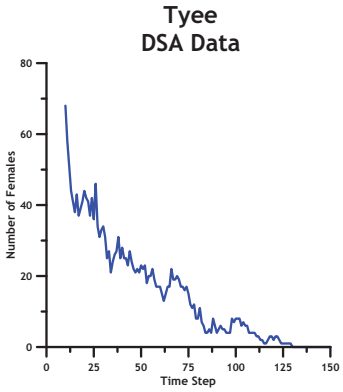


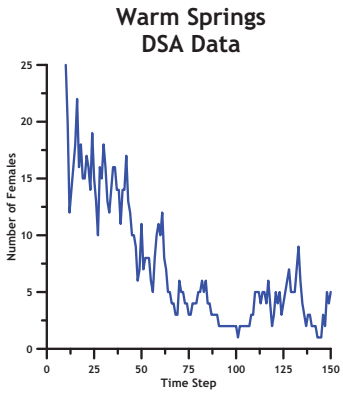


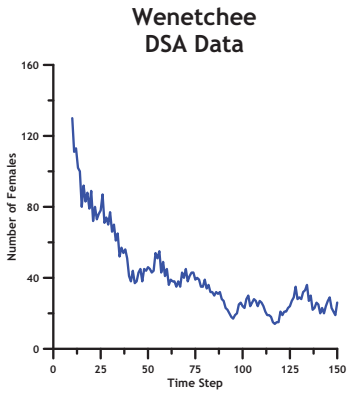






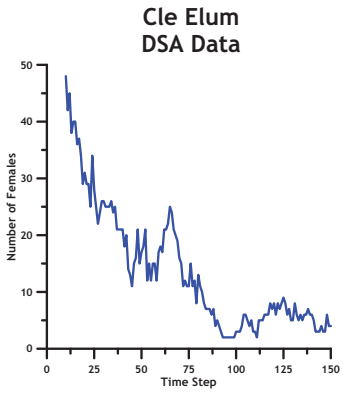


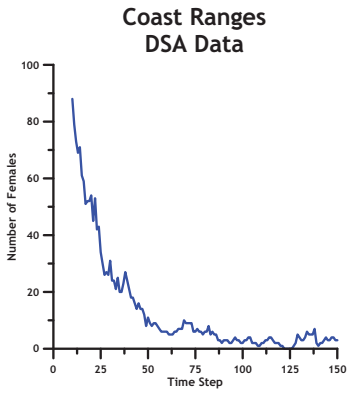


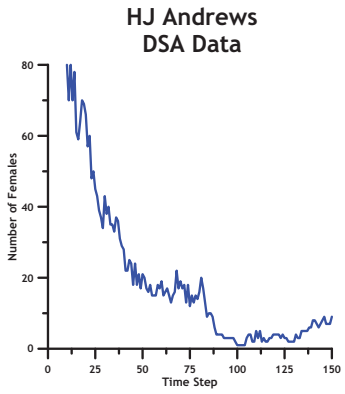


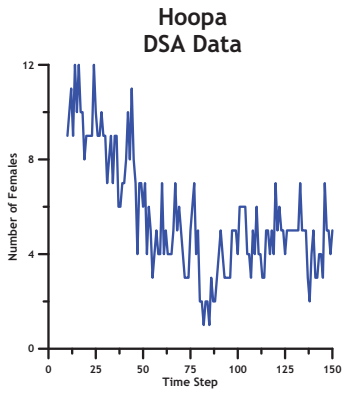
Scenario: Alpha_B (Mulitplier = 550)

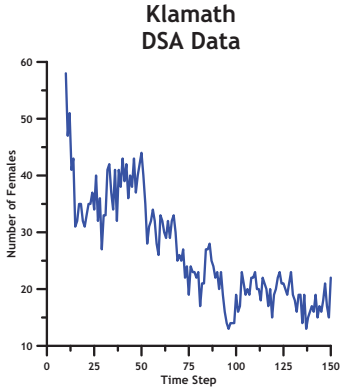
DCA Trends

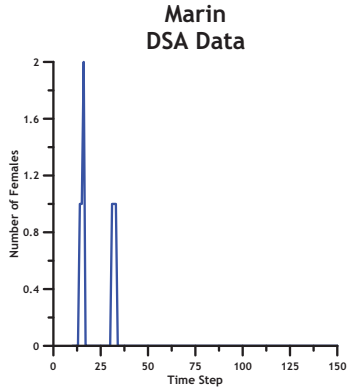


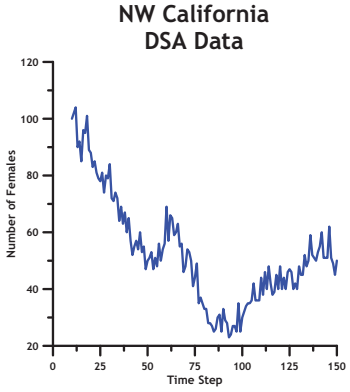


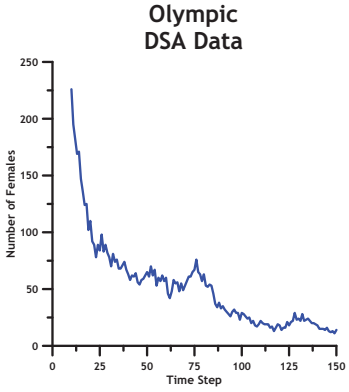


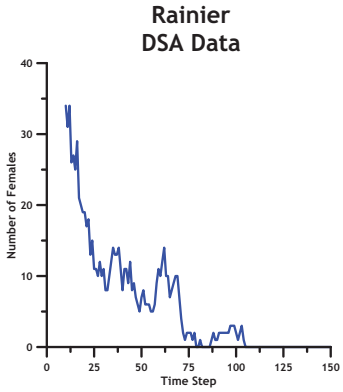


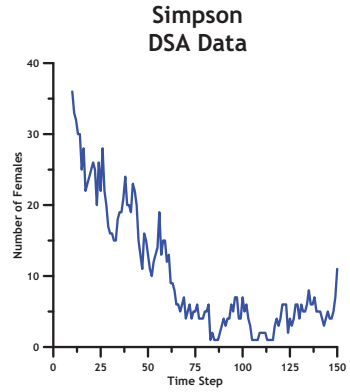


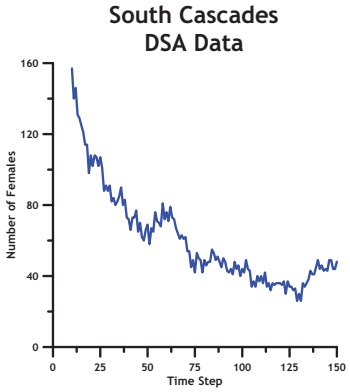


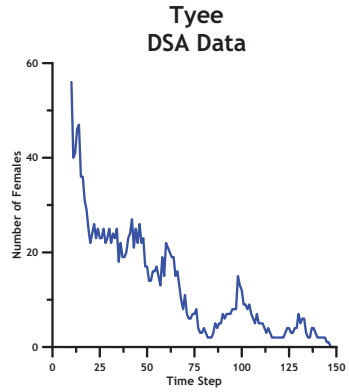


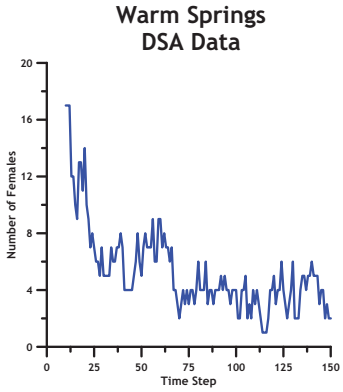


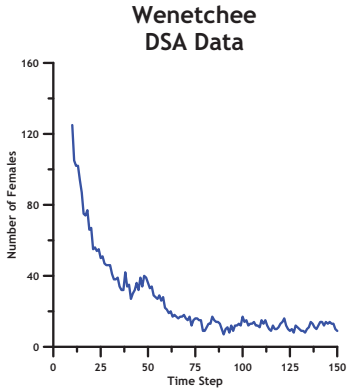






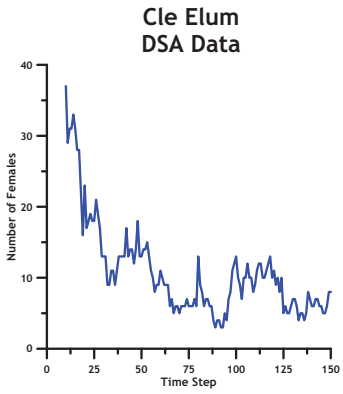


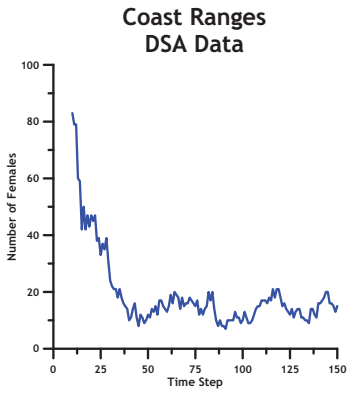


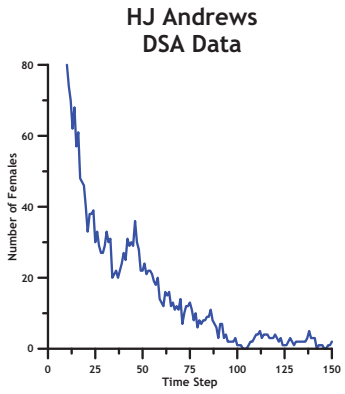


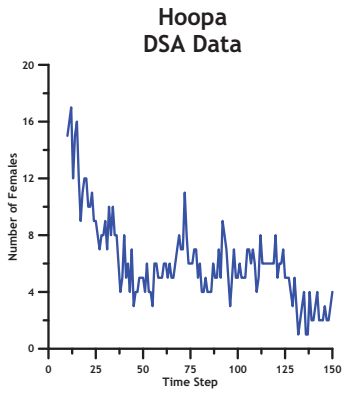
Scenario: Alpha_C (Mulitplier = 600)

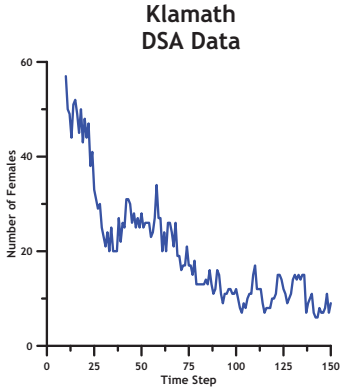
DCA Trends

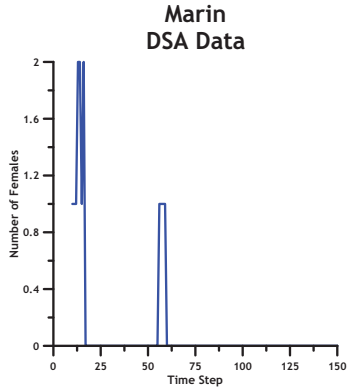


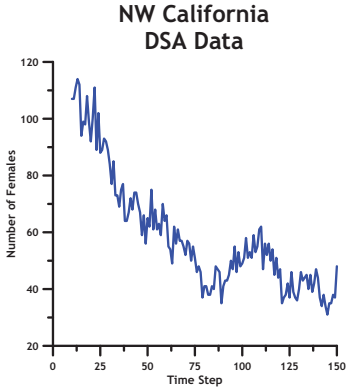


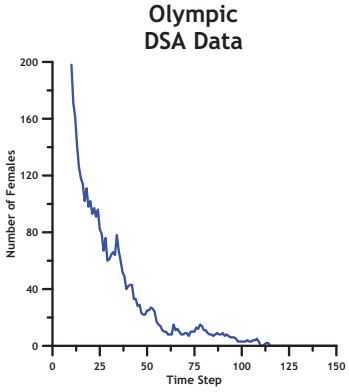


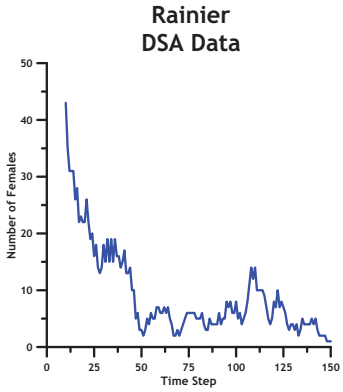


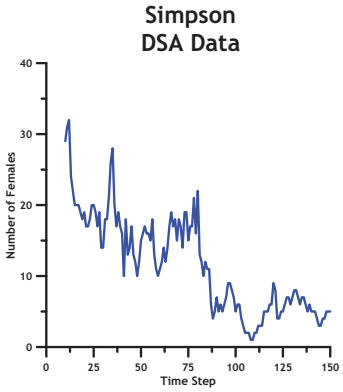


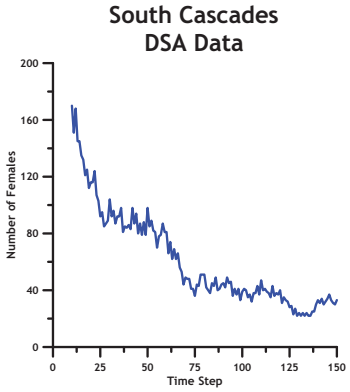


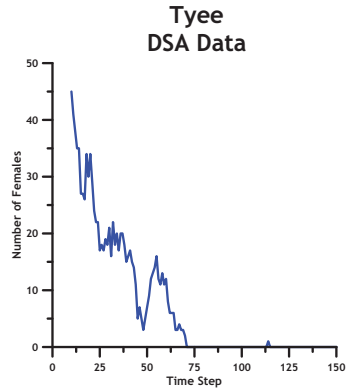


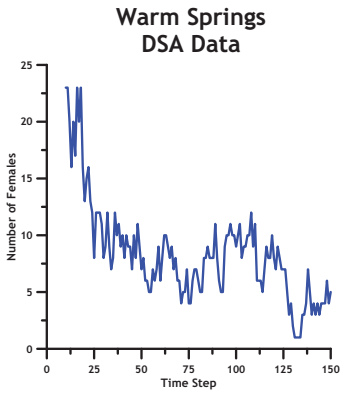


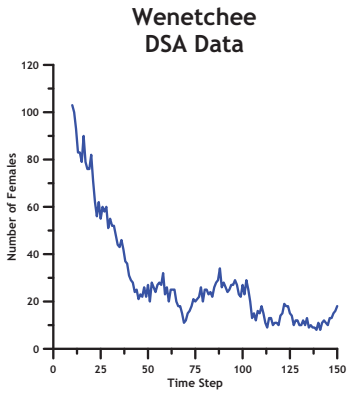






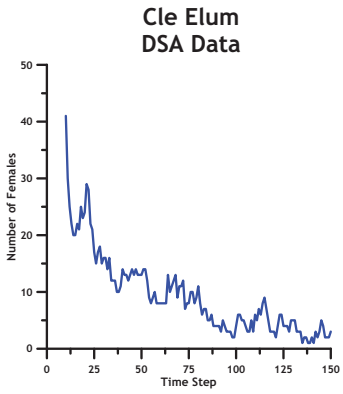


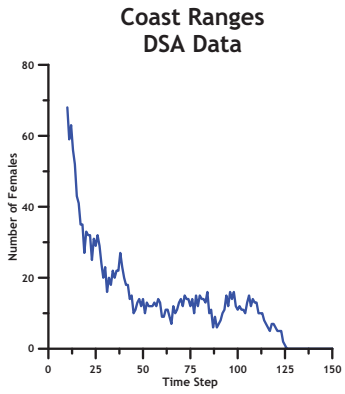


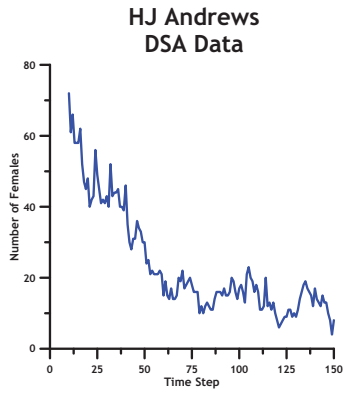


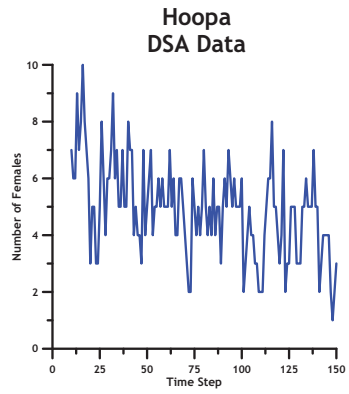
Scenario: Alpha_D (Mulitplier = 650)

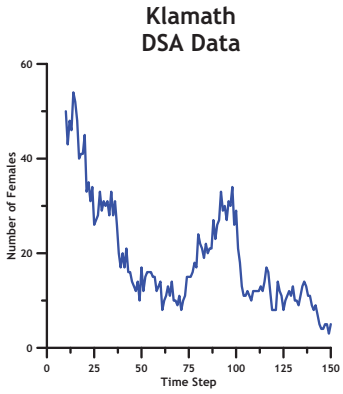
DCA Trends

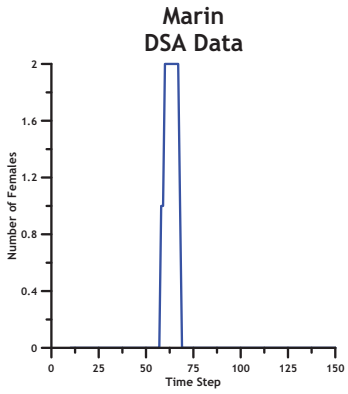


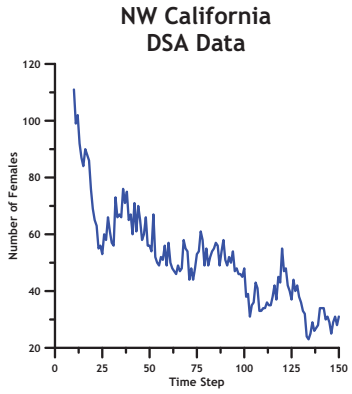


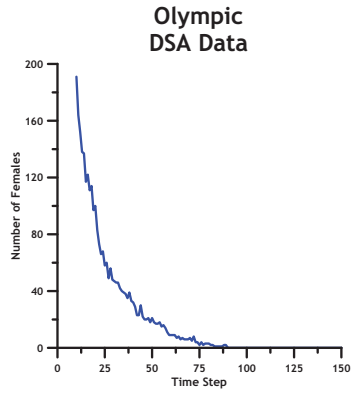


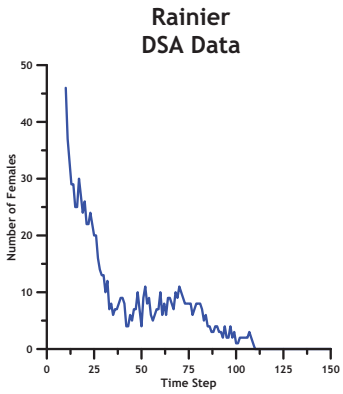


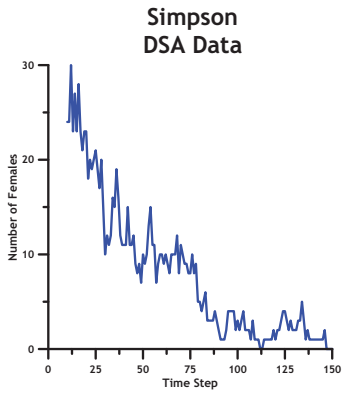


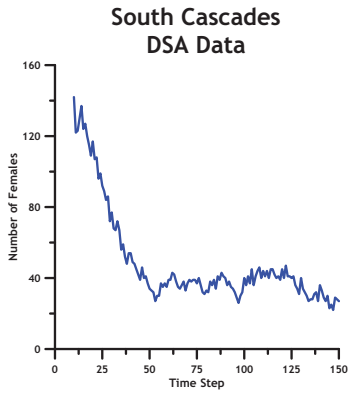


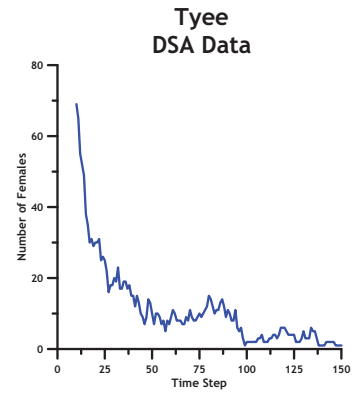


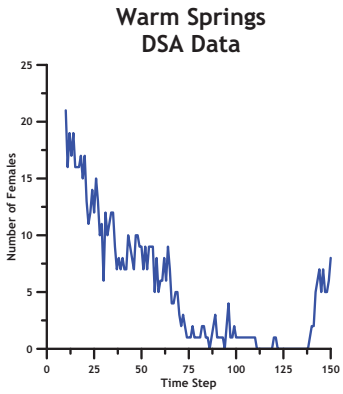


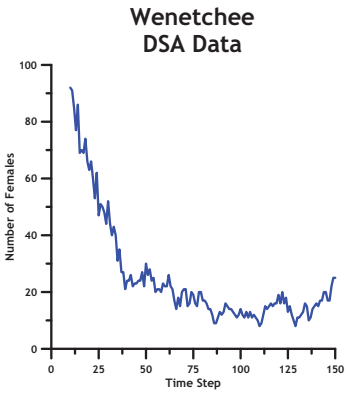






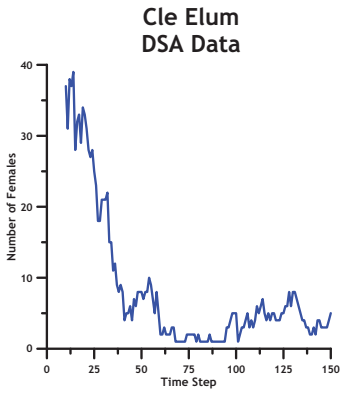


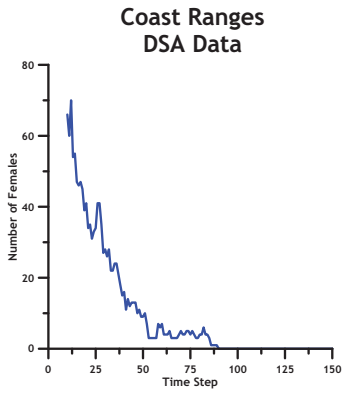


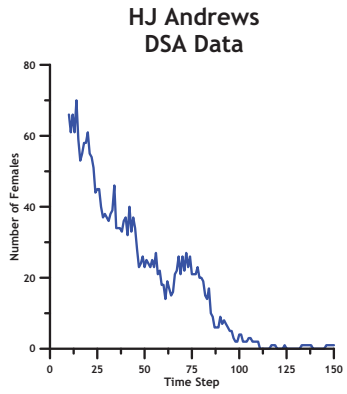


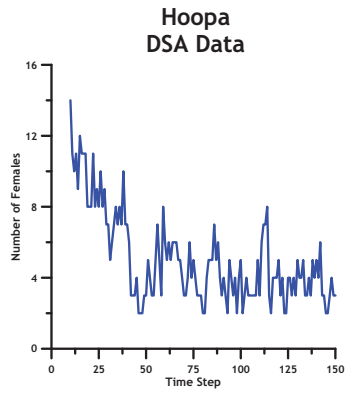
Scenario: Alpha_E (Mulitplier = 700)

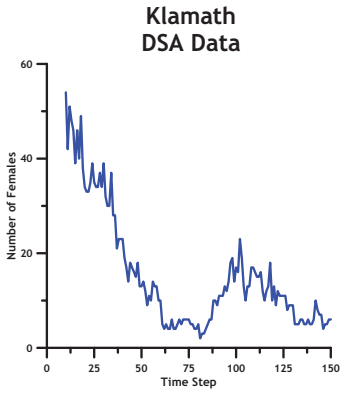
DCA Trends

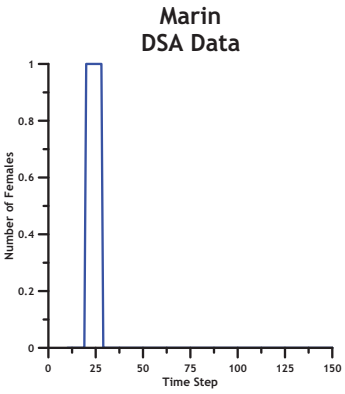


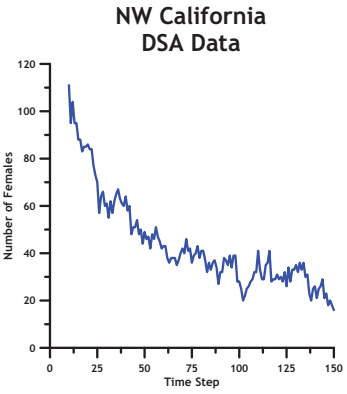


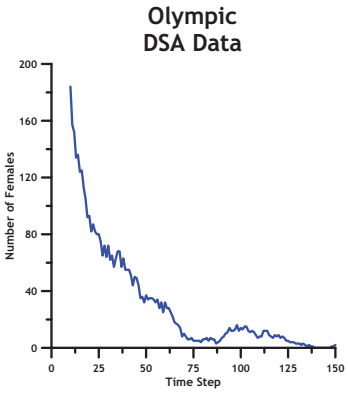


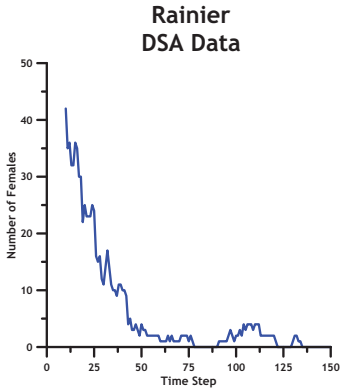


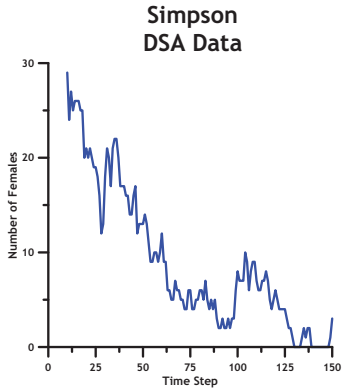


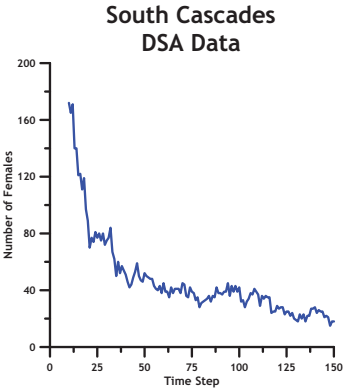


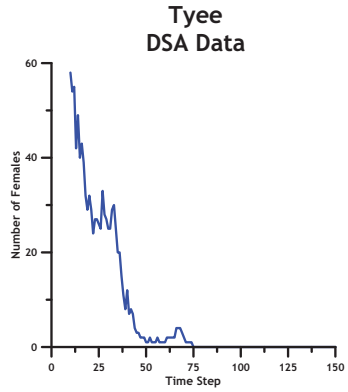


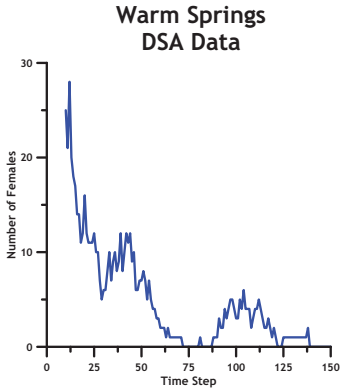


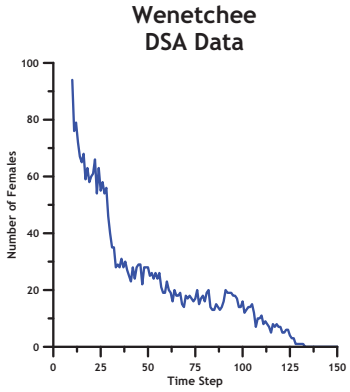












Scenario: Alpha_F (Mulitplier = 750)

DCA Trends