Report

July 12, 2016

Table 1: Estimations of 1000 simulations, with $\lambda_0=0.8,\,\beta_0=0.0175$ and $\mu_0=0.1.$ The initial parameter was (800, 18, 100).

Statistic	Mean	St. Dev.	Min	Max	
$egin{array}{c} \lambda_0 \ eta_0 \end{array}$	1.299	0.235	0.351	2.159	
β_0	0.026	0.007	-0.043	0.051	0.000
μ_0		0.191	0.035	0.081	0.329

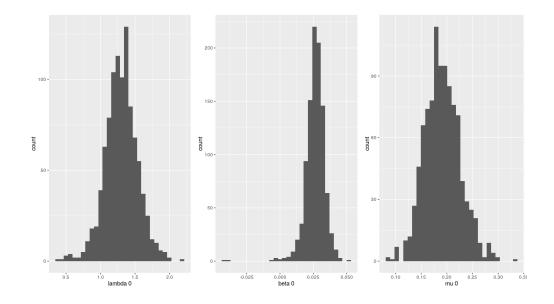


Table 2:

Statistic	N	Mean	St. Dev.	Min	Max
X1	1,000	1.284	0.326	-0.288	2.059
X2	1,000	0.004	0.035	-0.439	0.089
X3	1,000	0.772	0.089	0.464	1.167
V4	1,000	33.833	$1,\!327.034$	-36,730.000	$16,\!236.080$

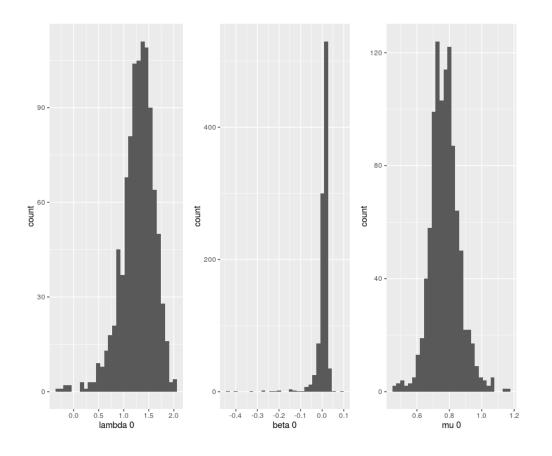


Table 3:

Statistic	N	Mean	St. Dev.	Min	Max
X1	1,000	1.291	0.340	-0.292	2.274
X2	1,000	0.004	0.033	-0.326	0.069
X3	1,000	0.770	0.092	0.333	1.167
V4	1,000	50.721	6,691.263	-92,207.600	179,176.300

Table 4:

Statistic	N	Mean	St. Dev.	Min	Max
X1	1,000	0.841	0.060	-0.035	1.061
X2	1,000	0.018	0.011	-0.242	0.024
X3	1,000	0.109	0.018	0.050	0.324
V4	1,000	39.619	3.652	-43.967	67.607

Table 5:

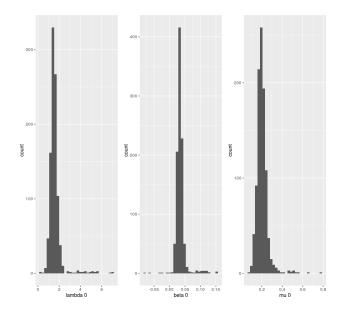
Statistic	N	Mean	St. Dev.	Min	Max
X1	1,000	0.843	0.060	0.116	1.132
X2	1,000	0.018	0.004	-0.101	0.025
X3	1,000	0.109	0.018	0.063	0.305
V4	1,000	39.244	12.885	-346.914	44.562

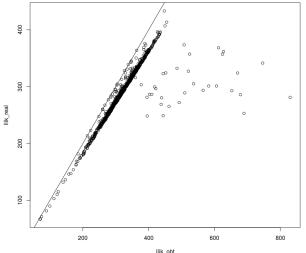
Table 6:

Statistic	N	Mean	St. Dev.	Min	Max
X1	1,000	1.587	0.638	0.253	7.048
X2	1,000	0.034	0.016	-0.076	0.157
X3	1,000	0.202	0.056	0.070	0.776

Table 7:

Statistic	N	Mean	St. Dev.	Min	Max
X1	1,000	1.560	0.311	0.597	2.702
X2	1,000	0.034	0.008	-0.017	0.064
X3	1,000	0.197	0.037	0.084	0.479

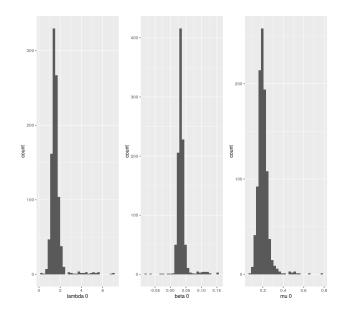




with real initial parameters

Table 8: initial true values

Statistic	real values	Mean	St. Dev.	Min	Max
$\overline{\lambda_0}$	0.8	0.850	0.060	0.746	1.125
$egin{array}{c} \lambda_0 \ eta_0 \end{array}$	0.0175	0.019	0.001	0.011	0.024
μ_0	0.1	0.110	0.016	0.061	0.179
K	40	39.734	1.758	31.210	62.598



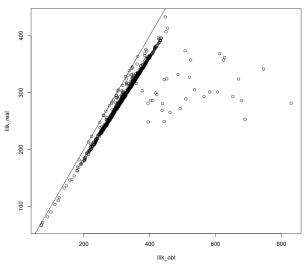


Table 9: starting values (800,10,100)

Statistic	real value	Mean	St. Dev.	Min	Max
λ_0	0.8	2.850	7.858	0.345	113.927
β_0	0.0175	0.063	0.178	-0.028	2.589
μ_0	0.1	0.279	0.427	0.046	4.856
K	40	39.562	32.295	-937.155	276.762

Table 10: starting values (0.3,0.005,0.5)

Statistic	N	Mean	St. Dev.	Min	Max
X1	1,000	1.283	0.297	0.499	2.281
X2	1,000	0.026	0.009	-0.022	0.053
X3	1,000	0.198	0.032	0.038	0.288
V4	1,000	41.957	73.794	-1,917.311	667.766

