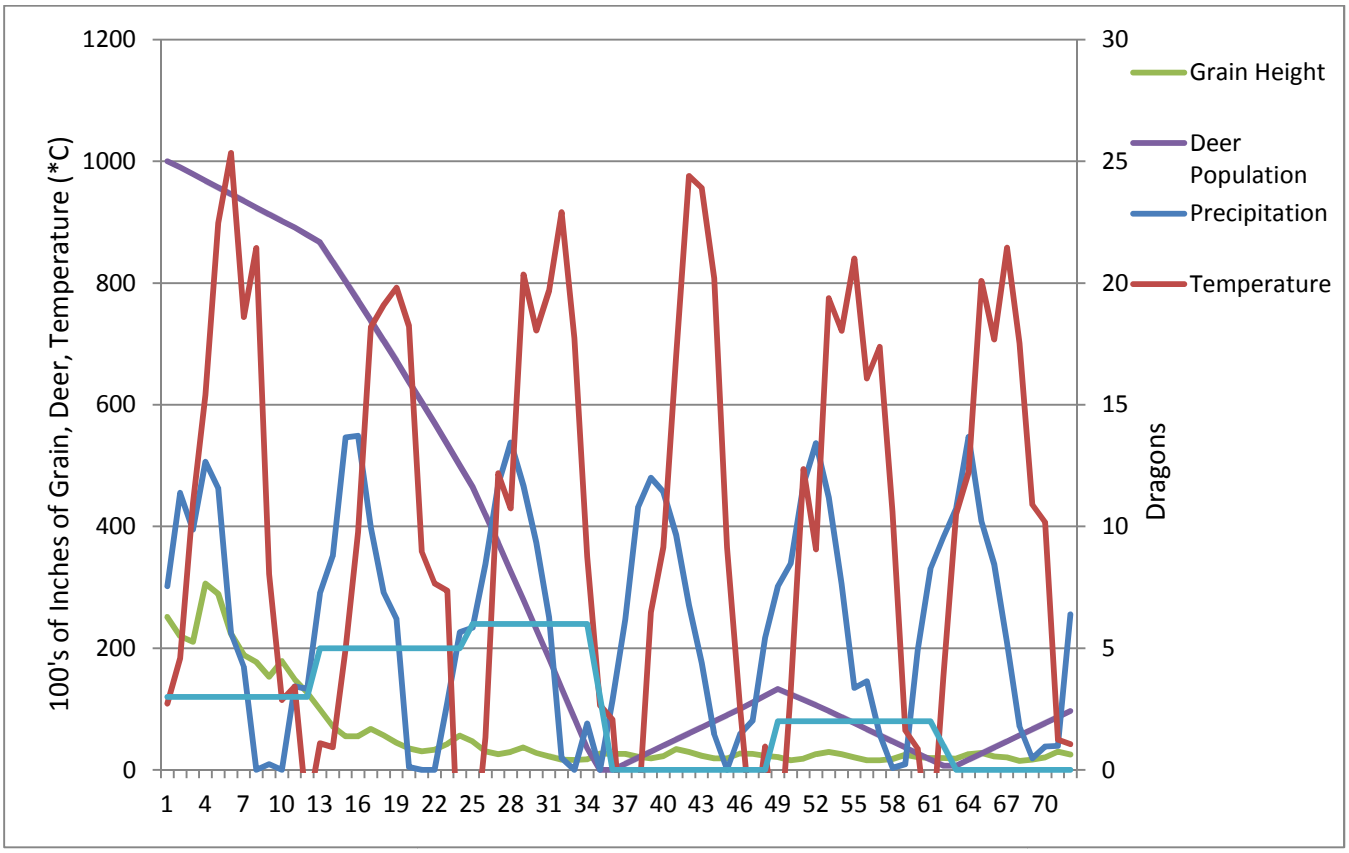
Miles Van de Wetering

Parallel Project 4

My results are depicted in the table and graph below. I decided to add dragons to the simulation, because dragons are cool.

My results look pretty good to me, and make sense. The dragons ended up really being the deciding factor on how many deer could be sustained, their population declined almost linearly while dragons were around, and increased when dragons had died out (or left in search of princesses, more likely). The grain population fluctuated fairly regularly with year (I added a grain carrying capacity because without it, the grain and deer populations were going really wild. The grain did best in the presence of dragons, since there were less deer to eat it.



Month	Precipitation	Temperature	Grain Height	Deer Population	Dragon Population
0	7.546203	2.721248	251.21	1000	3
1	11.387739	4.590683	219.53	990	3
2	9.875758	10.948533	210.44	979	3
3	12.653867	15.402985	306.15	968	3
4	11.566622	22.460632	289.31	957	3
5	5.614112	25.340428	223.5	946	3

6	4.234417	18.607084	189.02	935	3
7	0	21.43723	177.46	924	3
8	0.234078	8.048448	153.2	913	3
9	0	2.860722	178.58	902	3
10	3.436416	3.416659	148.98	891	3
11	3.330423	-1.833835	127.51	879	3
12	7.23664	1.0925	99.28	867	5
13	8.784678	0.939929	71.47	835	5
14	13.661573	4.969239	55.11	803	5
15	13.722772	9.773136	55.29	771	5
16	9.95719	18.184238	67.31	738	5
17	7.280468	19.084939	56.6	705	5
18	6.204271	19.813173	44.59	672	5
19	0.116973	18.229451	35.19	638	5
20	0	8.966319	30.46	604	5
21	0	7.669017	32.95	570	5
22	2.772124	7.365059	42.58	535	5
23	5.654905	-5.116162	56.06	500	5
24	5.840818	-4.006942	46.92	465	6
25	8.457761	1.321748	30.74	419	6
26	11.725224	12.185775	25.65	373	6
27	13.452777	10.734181	29.2	326	6
28	11.657048	20.351376	36.93	279	6
29	9.326936	18.044298	27.73	231	6
30	6.259777	19.690403	22.12	183	6
31	0.492059	22.914971	16.73	134	6
32	0	17.73539	16.19	85	6
33	1.905256	8.76037	17.46	35	6
34	0	2.659957	26.59	0	3
35	2.857687	2.065309	26.51	0	0
36	6.178635	-4.311754	26.42	10	0
37	10.798031	-1.930002	21.74	20	0
38	12.008167	6.464943	19.01	30	0
39	11.422575	9.155553	22.52	40	0
40	9.643682	17.003871	34.19	50	0
41	6.766648	24.39309	29.49	60	0
42	4.395517	23.895764	23.26	70	0
43	1.455256	20.188917	18.91	80	0
44	0	9.140155	19.12	90	0
45	1.461849	2.652425	26.87	100	0
46	2.021977	-2.924808	26.21	111	0
47	5.423177	0.95641	23.18	122	0
48	7.546333	-4.158614	21.18	133	2
49	8.482445	3.236652	15.58	124	2
50	11.728651	12.360619	18.36	115	2

51	13.421617	9.050941	25.64	106	2
52	11.18651	19.375182	29.53	97	2
53	7.635555	18.03535	25.71	87	2
54	3.369309	21.011442	20.71	77	2
55	3.641862	16.072907	15.81	67	2
56	1.461826	17.382537	15.68	57	2
57	0.079993	10.613073	17.65	47	2
58	0.240918	1.615403	24.66	37	2
59	4.924065	0.869083	21.19	27	2
60	8.269697	-3.593077	19.56	17	2
61	9.556352	3.815153	19.59	7	1
62	10.735329	10.526861	18.16	7	0
63	13.679197	12.241279	25.68	17	0
64	10.208924	20.080651	27.79	27	0
65	8.441422	17.679795	21.96	37	0
66	5.220095	21.451514	20.76	47	0
67	1.78775	17.526961	14.96	57	0
68	0.474757	10.893468	16.74	67	0
69	0.958317	10.169633	20.53	77	0
70	0.988209	1.234699	29.89	87	0
71	6.39472	1.053916	25.02	97	0