Project 4 Grianville

Own Choice Function:

I implemented zombies that attacked. If the number of deer divided by two is greater than the current number of zombies, then a zombie will wonder his way to the forest. If not, then the odds of a zombie finding deer to eat is to low and one of them will starve to death. This effects the number of deer in the forest and there for will affect how much grain there is.

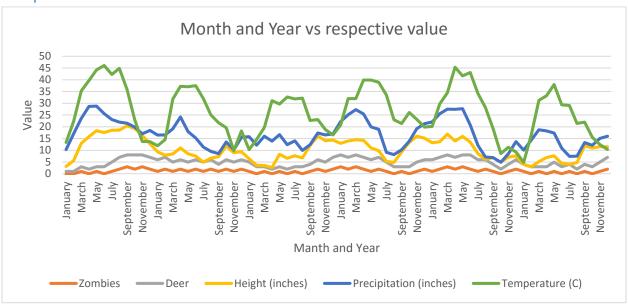
Table:

Month	Zombies	Deer	Height (inches)	Precipitation (inches)	Temperature (C)
January	0	1	2.1495	7.13045	3.047333333
February	0	1	4.54966	11.4364	5.288777778
March	1	2	9.95421	10.5858	11.69811111
April	0	2	13.772	12.8685	11.04488889
May	1	2	15.3325	10.4585	15.38755556
June	0	3	14.5506	8.0684	20.48138889
July	1	4	13.5455	4.50069	19.23011111
August	2	5	11.5801	3.42214	22.8815
September	3	5	12.4475	1.07363	14.38366667
October	2	6	11.2542	0.63232	3.142055556
November	3	5	8.27506	0.728906	-3.231166667
December	2	5	5.78191	5.66379	-4.763277778
January	1	5	3.29022	7.15669	-4.547166667
February	2	5	0.861959	8.67788	-1.970166667
March	1	4	3.47034	10.6686	12.66783333
April	2	4	5.04023	13.152	13.01944444
May	1	4	3.52411	9.42677	19.10827778
June	2	4	1.5838	7.65006	22.26088889
July	1	4	0	6.33819	20.66122222
August	2	4	0.667835	2.84279	15.55138889
September	1	3	3.28997	1.2841	13.17294444
October	2	4	5.78964	1.77056	6.015666667
November	1	4	3.99817	1.16719	-0.264333333
December	2	4	3.4121	6.12319	2.686666667
January	1	4	1.41504	9.35022	-5.513
February	0	3	0.584885	8.58686	2.432111111
March	1	2	0.546364	12.4485	3.704388889

May 1 2 5.32638 8.32273 13.01422222 June 0 2 4.58999 5.8053 20.2625 July 1 2 4.68936 6.32962 17.8245 August 0 3 3.7431 3.16104 22.32572222 September 1 3 8.05055 0.363486 10.28316667 October 2 4 10.0928 1.24544 5.737666667 November 1 4 9.11515 2.42825 2.282555556 December 2 5 7.33219 2.60421 -0.38133333 January 3 5 4.93679 9.28025 -1.425444444 February 2 5 6.9693 11.1264 6.930055556 March 3 5 6.53023 12.7497 4.7275 April 2 5 7.25758 11.2118 14.4311111 June 1 4 0.338303 3.76843 24.39	April	0	2	0.679389	11.1911	17.21166667
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March 1 2 2.19659 13.5356 12.51038889 April 0 3 3.9411 11.3283 14.92516667 May 1 4 2.61995 9.71729 20.632 June 0 3 1.41146 6.48196 18.44538889 July 1 3 0.00214944 3.42474 21.67127778 August 0 2 2.77663 2.68595 13.99438889 September 1 3 7.90109 1.37833 8.714388889	January	1	3	0	6.05722	-5.141722222
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May 1 4 2.61995 9.71729 20.632 June 0 3 1.41146 6.48196 18.44538889 July 1 3 0.00214944 3.42474 21.67127778 August 0 2 2.77663 2.68595 13.99438889 September 1 3 7.90109 1.37833 8.714388889	March	1	2	2.19659	13.5356	12.51038889
June 0 3 1.41146 6.48196 18.44538889 July 1 3 0.00214944 3.42474 21.67127778 August 0 2 2.77663 2.68595 13.99438889 September 1 3 7.90109 1.37833 8.714388889	April	0	3	3.9411	11.3283	14.92516667
July 1 3 0.00214944 3.42474 21.67127778 August 0 2 2.77663 2.68595 13.99438889 September 1 3 7.90109 1.37833 8.714388889	May	1	4	2.61995	9.71729	20.632
August 0 2 2.77663 2.68595 13.99438889 September 1 3 7.90109 1.37833 8.714388889	June	0	3	1.41146	6.48196	18.44538889
September 1 3 7.90109 1.37833 8.714388889	July	1	3	0.00214944	3.42474	21.67127778
·	August	0	2	2.77663	2.68595	13.99438889
October 0 3 7.94269 1.18473 3.392055556	September	1	3	7.90109	1.37833	8.714388889
	October	0	3	7.94269	1.18473	3.392055556

November	1	4	6.48724	3.55777	-2.584166667
December	2	5	4.48989	4.53334	-5.704388889

Graph:



Commentary:

To evaluate properly we need to separate each dependent variable out.

Note: Parallelism talk before explanation of what happened. Because of the way its programmed with the barriers before continuing this is most likely what causes the delay between weather, growth and deer. Because it depends on when the variable is read in and what its value is when its read in. There for these barriers are what causes the program not to recalculate early and there for a one month delay in reaction to events that happen because of when they are forced to be calculated.

Grain depends on precipitation and temperature and the amount of deer around to eat it. With grain we see very slim to no delay in the growth related to the amount of water and temperature. Maybe a data point away from an increase in those is an increase in grain and same with decreases immediately after a decrease we see a decrease in grain height because it doesn't grow as much and the deer eat it. Another instance that occurs is when the amount of deer gets out of control compared to the temp and precipitation and eat more grain then can grow and this causes a decrease in grain even when it should be growing.

Deer depends on how much grain is available and if zombies are around to eat the deer. So as the grain grows we tend to see a small delay in the growth of the deer population but this delay is greater than that between the growth of grain and the weather. So the deer take a little longer to populate since deer can only grow by 1 at a time where grain can grow by more than 1 per grain available. Also zombies come and eat the deer. If the number of deer divided by 2 is greater than the

number of zombies a new zombie comes if it is not than a zombie does. But for all the zombies present one third of them will find and kill a deer. So this affects the deer population because deer get eaten.

Finally, zombies. As previously mentioned one third of the zombies find a kill a deer, but if there are less than twice as many deer as zombies a zombie starves and dies off. So this creates a fluctuation in the number of zombies.

To conclude deer grain and zombies all affect one another. Weather and precipitation are not affected by anything besides the month but that is built in and part of the function. Colder temperatures in the winter and warmer in the summer and wetter in the spring. This has effect on everything else. Where the other three also all affect each other. Zombies indirectly effect how much grain there is because they kill deer and if less deer are there to eat then more grain grows. This is true for all of them they all effect each other.