Functional Decomposition

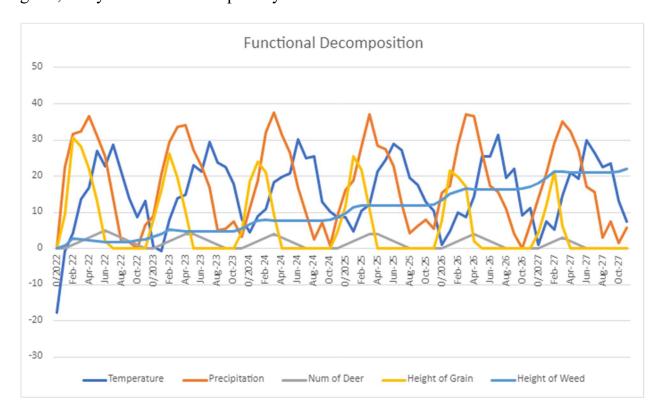
1. A table showing values for temperature, precipitation, number of deer, height of the grain, and your own-choice quantity as a function of month number.

	Temperature	Num of Precipitation Deer		Height of Grain	Height of Weed
0/2022	-17.777778	0	0	0	0
Jan-22	-0.718606	22.37043	0	9.501717	0.844597
Feb-22	4.291083	31.693109	1	30.561981	2.659141
Mar-22	13.624335	32.296219	2	28.076876	2.476585
Apr-22	16.767896	36.523689	3	21.896253	2.208053
May-22	26.99941	31.06181	4	13.172229	1.989091
Jun-22	22.667046	25.371269	5	2.018169	1.857412
Jul-22	28.626972	13.973113	4	0	1.83723
Aug-22	21.234461	2.075936	3	0	1.837324
Sep-22	13.891351	1.682123	2	0	1.884474
Oct-22	8.761041	0	1	0	2.293209
Nov-22	13.126871	6.451925	0	0	2.394482
0/2023	0.590636	8.803041	0	8.02139	3.213916
Jan-23	-0.633493	20.483665	1	15.96381	3.982535
Feb-23	8.050624	29.27954	2	26.086538	5.125474
Mar-23	13.810499	33.589515	3	19.644866	4.97137
Apr-23	14.722818	34.157249	4	10.201255	4.833773
May-23	22.865507	27.053872	4	0	4.731794
Jun-23	21.36628	22.818479	3	0	4.731982
Jul-23	29.436052	16.910077	2	0	4.731982
Aug-23	23.633219	4.991506	1	0	4.731989
Sep-23	22.608795	5.36232	0	0	4.732014
Oct-23	17.745353	7.384584	0	0	4.735996
Nov-23	8.136077	3.369849	0	4.560044	5.351821
0/2024	4.40172	11.146535	1	18.567778	6.789212
Jan-24	8.84793	18.773951	2	24.027073	7.616325
Feb-24	10.806107	32.047828	3	20.891419	7.887389
Mar-24	18.199738	37.577609	4	9.367249	7.681988
Apr-24	19.670207	31.407875	3	0	7.589367
May-24	20.814663	26.49668	2	0	7.589711

Jun-24	30.067444	16.885636	1	0	7.589711	
Jul-24	24.908799	9.696654	0	0	7.589713	
Aug-24	25.381249	2.494839	0	0	7.589714	
Sep-24	12.973425	7.314199	0	0	7.705632	
Oct-24	10.189648	0.751919	0	0	7.977595	
Nov-24	8.675577	8.946113	0	4.423673	8.72537	
0/2025	8.574278	16.136771	1	11.57757	9.70483	
Jan-25	4.655702	18.73085	2	25.491445	11.482947	
Feb-25	10.406992	28.235852	3	21.805166	11.862273	
Mar-25	12.212685	37.064138	4	10.874388	11.877142	
Apr-25	21.1473	28.520832	4	0	11.768636	
May-25	24.512829	27.390295	3	0	11.768641	
Jun-25	28.899265	22.831501	2	0	11.768641	
Jul-25	27.092569	12.426802	1	0	11.768641	
Aug-25	19.540685	4.210755	0	0	11.769271	
Sep-25	17.599691	6.13656	0	0	11.773467	
Oct-25	12.869852	8.037588	0	0	11.901147	
Nov-25	10.493802	5.434592	0	0	12.235852	
0/2026	1.145056	15.433847	0	7.655354	13.460144	
Jan-26	4.733018	17.289965	1	21.51399	15.213698	
Feb-26	9.918357	28.605144	2	19.889055	15.756062	
Mar-26	8.763078	37.068479	3	17.046547	16.45633	
Apr-26	14.448829	36.616709	4	1.932954	16.351159	
May-26	25.555543	26.555283	3	0	16.331831	
Jun-26	25.472035	17.35942	2	0	16.331833	
Jul-26	31.472651	15.696781	1	0	16.331833	
Aug-26	19.559335	10.836599	0	0	16.332725	
Sep-26	22.005547	3.892908	0	0	16.33277	
Oct-26	9.250357	0	0	0	16.686467	
Nov-26	11.223195	6.752381	0	0	16.953924	
0/2027	0.995854	13.875444	0	4.179887	18.078978	
Jan-27	7.401013	20.765208	1	11.798129	19.517866	
Feb-27	5.249704	29.254736	2	21.374267	21.344334	
Mar-27	14.704692	35.100166	3	6.274374	21.188573	
Apr-27	20.897051	32.24971	2	0	21.126123	
May-27	19.223633	27.213247	1	0	21.127831	
Jun-27	30.006748	17.000981	0	0	21.127831	
Jul-27	26.47711	15.491516	0	0	21.127831	
Aug-27	22.592536	2.987227	0	0	21.127853	

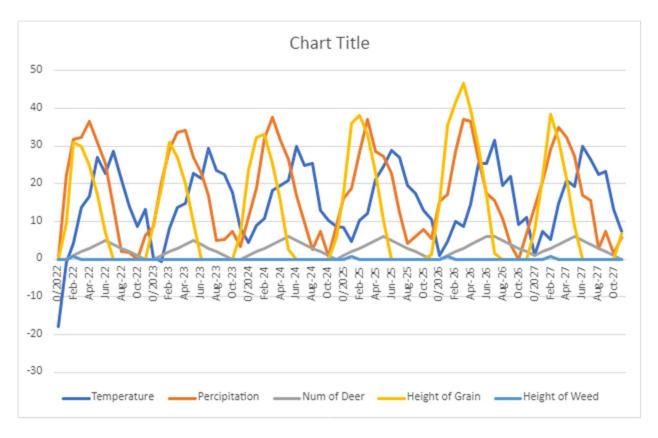
Sep-27	23.423979	7.340555	0	0	21.127863
Oct-27	13.230309	1.494532	0	0	21.196579
Nov-27	7.384644	5.733498	0	0	22.039767

2. A graph showing temperature, precipitation, number of deer, height of the grain, and your own-choice quantity as a function of month number.



3. A commentary about the patterns in the graph and why they turned out that way. What evidence in the curves proves that your own quantity is actually affecting the simulation correctly?

This is the graph without weeds, as you can see, the Height of Grain and the Number of Dear are maintained over years.



Next is the chart with weeds. While the Height of Weed keeps growing, the Height of Grain and the Number of Dear are dropping slowly over years.

