Statistics of Random Data Generated for "Fabricated apiary data"					
Rows = 2891	Mode	Min	Max	Average	
Varroa Mites Observed	3	0	133	60.599	
Hours of Sun	2676	509	3373	2149.633	
Wax Moths	14	0	15	7.836	
Total Honey	11728	1232	19997	10151.641	
Swarm Attempted	0	0	1	0.495	
Queen Cells Produced	2	0	6	1.943	
Survival	0	0	1	0.486	

These are the stats for each column of the combined data from each of the individual spreadsheets

	Statistics of Random Data Generated for "Survivor" Hives				
Range of Randomness	Rows = 1050	<u>Mode</u>	<u>Min</u>	<u>Max</u>	<u>Average</u>
Varroa Mites observed rand= 1-10	Varroa Mites Observed	7	0	10	4.94
Hours of Sun rand= 2300-3374	Hours of Sun	2624	2300	3373	2835.16
Wax Moth Observed rand= 1-15	Wax Moths	11	1	15	8.07
Total Honey Collected (weight in kg) rand= 10000-20000	Total Honey	15576	10015	19997	14920.89
Swarm Attempt (Yes = 1; 0 = No)	Swarm Attempted	0	0	1	0.26
Queen Cells produced rand= 0-3	Queen Cells Produced	2	0	3	1
Survival (Yes = 1, 0 = No)	Survival	1	0	1	0.71

For the "Survivor"
hives, my
assumptions were
that less parasites,
more sunny days,
more total honey
harvested, less
swarm attempts,
less queen cells
produced and
higher rate of
survival.

Range of Randomness

<u>Hange of Handoniness</u>
Varroa Mites observed rand= 90-133
Hours of Sun rand= 509-2800
Wax Moth Observed rand= 1-15
Total Honey Collected (weight in kg) rand= 2000-12000
Swarm Attempt (Yes = 1; 0 = No)
Queen Cells produced rand= 2-6
Survival (Yes = 1, 0 = No)

Statistics of Random Data Generated for "Collapsed" Hives					
Rows = 1050	<u>Mode</u>	<u>Min</u>	<u>Max</u>	<u>Average</u>	
Varroa Mites Observed	95	90	133	111.99	
Hours of Sun	2358	510	2800	1635.09	
Wax Moths	1	1	15	7.86	
Total Honey	5218	2004	11982	6901.35	
Swarm Attempted	1	0	1	0.72	
Queen Cells Produced	2	0	5	1.54	
Survival	0	0	1	0.27	

For the "collapsed" hives (or the ones that did not survive the season, my assumptions were that more parasites, less sunny days, less total honey harvested, more swarm attempts, more queen cells produced and lower rate of survival.

	Statistics of Random Data Generated for "Random" Hives				
Range of Randomness	Rows = 792	<u>Mode</u>	<u>Min</u>	<u>Max</u>	<u>Average</u>
Varroa Mites observed rand= 90-133	Varroa Mites Observed	83	1	133	66.24
Hours of Sun rand= 509-2800	Hours of Sun	967	509	3369	1923.45
Wax Moth Observed rand= 1-15	Wax Moths	6	0	15	7.50
Total Honey Collected (weight in kg) rand= 2000-12000	Total Honey	6991	1232	14956	8142.32
Swarm Attempt (Yes = 1; 0 = No)	Swarm Attempted	1	0	1	0.50
Queen Cells produced rand= 2-6	Queen Cells Produced	6	0	6	3.09
Survival (Yes = 1, 0 = No)	Survival	0	0	1	0.48

For the "Random"
hives, my
assumptions were
none. I allowed
the software to
randomly fill the
sheet with values
in the ranges
listed.