Step 1- Input the following information. (Click Mouse on white box)

Sporting Stags Required	20	
Calving Rate	43.00%	**
Management Area (Ha)	1437	

Killundine 5 year population model to achieve
Annual cull of 20 sporting stags
2019 - 2023

This gives you a target population

	Stags	Hinds	Calves	Total	Density
Target Population	150	150	64	364	25.3

Step 2- Input current population

2019 Spring Deer Count	Stags	Hinds	Calves	Total	Density
Current (Spring) Population	112	187	82	381	26.5

Step 3- Input proposed culls and review likely performance against population targets

Population Model	**Stags**	**Hinds**	**Calves**	
Year 1 Spring Population	112	187	82	2019 Spring Deer Count 11/4/19
Year 1 Summer Population	153	228	98	
Year 1 Cull	15	50	22	Projected Cull
Year 1 Mortality	3	5	6	
Year 2 Spring Population	135	173	71	
Year 2 Summer Population	170	209	90	
Year 2 Cull	15	50	22	Projected Cull
Year 2 Mortality	3	4	5	
Year 3 Spring Population	152	155	63	
Year 3 Summer Population	183	186	80	
Year 3 Cull	15	30	13	Projected Cull
Year 3 Mortality	4	4	5	
Year 4 Spring Population	165	152	62	
Year 4 Summer Population	196	183	79	
Year 4 Cull	20	30	13	Projected Cull
Year 4 Mortality	4	4	5	**Total** **Density**
Finish Population	172	150	64	**386** **26.9**
Target Population	150	150	64	**364** **25.3**
% of Target Population	**115**	**100**	**101**	**106**

****Calving Rate= Number of calves born for every 100 hinds (1+Years) (Scottish Average 20-40%)**

Assumptions
2% Stag Motality each year
2% Hind Mortality each year
6% Calf Mortality each year
1 to 1 Hind/Stag Calf Ratio
No immigration/emigration

0.2
0.25
0.3
0.35
0.4

	0.2			
	0.3			
	0.4			