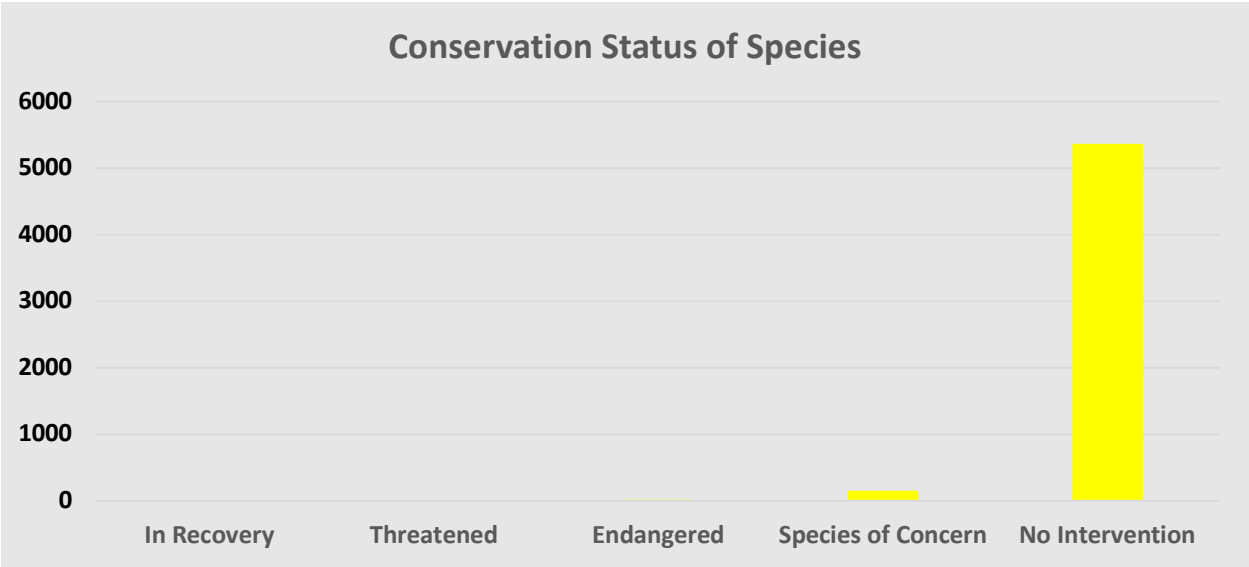


SPECIES DATA FRAME			
	Category	Scientific_Name	Common_Names
0	Mammal	Clethrionomys gapperi gapperi	Gapper's Red-Backed Vole
1	Mammal	Bos bison	American Bison, Bison
2	Mammal	Bos taurus	Aurochs, Aurochs, Domestic Cattle (Feral), Domesticated Cattle
3	Mammal	Ovis aries	Domestic Sheep, Mouflon, Red Sheep, Sheep (Feral)
4	Mammal	Cervus elaphus	Wapiti Or Elk

Conservation Species Count		
	Conservation_Status	Scientific_Name
0	Endangered	15
1	In Recovery	4
2	Species of Concern	151
3	Threatened	10

Conservation Species Count – NaN Values		
	Conservation_Status	Scientific_Name
0	Endangered	15
1	In Recovery	4
2	No Intervention	5363
3	Species of Concern	151
4	Threatened	10



Investigating Endangered Species			
	Category	Not_Protected	Protected
0	Amphibian	72	7
1	Bird	413	75
2	Fish	115	11
3	Mammal	146	30
4	Nonvascular Plant	328	5
5	Reptile	73	5
6	Vascular Plant	4216	46

Investigating Endangered Species				
	Category	Not Protected	Protected	Percentage Protected
0	Amphibian	72	7	0.088608
1	Bird	413	75	0.153689
2	Fish	115	11	0.087302
3	Mammal	146	30	0.170455
4	Nonvascular Plant	328	5	0.015015
5	Reptile	73	5	0.064103
	Vascular Plant	4216	46	0.010793

Observaton DataFrame: observations.csv			
	scientific_name	park_name	observations
0	Vicia benghalensis	Great Smoky Mountains National Park	68
1	Neovison vison	Great Smoky Mountains National Park	77
2	Prunus subcordata	Yosemite National Park	138
3	Abutilon theophrasti	Bryce National Park	84
4	Githopsis specularioides	Great Smoky Mountains National Park	85

Sample Size Calculator	
Baseline conversion rate:	15 %
Statistical significance:	85% 90% 95%
Minimum detectable effect:	% 33.33
Sample size:	870

Sheep Species

	Category	Scientific_Name	Common_Names	Conservation_Status	Is_Protected	Is_Sheep
3	Mammal	Ovis aries	Domestic sheep, Mouflon, Red Sheep, Sheep (Feral)	No Intervention	False	True
1139	Vascular Plant	Rumex acetosella	Sheep Sorrel, Sheep Sorrell	No Intervention	False	True
2233	Vascular Plant	Festuca Filiformis	Fineleaf, Sheep Fescue	No Intervention	False	True
3014	Mammal	Ovis canadensis	Bighorn Sheep, Bighorn Sheep	Species of Concern	True	True
3758	Vascular Plant	Rumex acetosella	Common Sheep Sorrel, Field Sorrel, Red. Sorrel, Sheep Sorrel	No Intervention	False	True
3761	Vascular Plant	Rumex paucifolius	Alpine Sheep Sorrel, Fewleaved Dock, Meadow Dock	No Intervention	False	True

	Category	Scientific_Name	Common_Names	Conservation_Status	Is_Protected	Is_Sheep
3	Mammal	Ovis aries	Domestic sheep, Mouflon, Red Sheep, Sheep (Feral)	No Intervention	False	True
3014	Mammal	Ovis canadensis	Bighorn Sheep, Bighorn Sheep	Species of Concern	True	True
4446	Mammal	Ovis canadensis sierrae	Sierra Nevada Bighorn Sheep	Endangered	True	True

Merging Sheep and Observation Data Frames

	Scientific_Name	Park_Name	Observations	Category	Common_Names	Conservation_Status	Is_Protected	Is_Sheep
0	Ovis canadensis	Yellowstone National Park	219	Mammal	Bighorn Sheep, Bighorn Sheep	Species of concern	True	True
1	Ovis canadensis	Bryce National park	109	Mammal	Bighorn Sheep, Bighorn Sheep	Species of concern	True	True
2	Ovis canadensis	Yosemite National Park	117	Mammal	Bighorn Sheep, Bighorn Sheep	Species of concern	True	True
3	Ovis canadensis	Great Smoky Mountains National Park	48	Mammal	Bighorn Sheep, Bighorn Sheep	Species of concern	True	True
4	Ovis canadensis Sierrae	Yellow Stone National Park	67	Mammal	Sierra Nevada Bighorn Sheep	Endangered	True	True

	Park_Name	Observation
0	Bryce National Park	250
1	Great Smokey Mountains National Park	149
2	Yellowstone National Park	507
3	Yosemite National Park	282

