

Umphafa Private Nature Reserve

	Research topics	Explanation	Desired outcome	Researcher/staff ratio		Research period	No. of days research	No. of days Intern	Notes
1	White Rhino ecology								
	Mother/calf interaction with other related offspring	Data on aggressive behaviour towards older calves	Spatial requirement knowledge	1	1	Only when calves are born	5	0.5	This is an easy study area to facilitate as there is always a Ranger with the Rhino every day thus does not require staff to be shifted from elsewhere
	Feeding preferences	Preferences to grass species	Habitat management	1	1	All year	5	0.5	
	Territorial behaviour of single male animal	Is a single male enough	Optimal Species management	1	1	All year	5	0.5	
Dominance behaviour (Intra and interspecific) at water sources	Are Rhino too dominant at small waterholes	Water management for smaller game	1	1	Winter	5	0.5		
2	Giraffe ecology								
	Dominance and submissive behaviour of males	Data on social interactions	Optimal species management	1	1	All year	3	2.5	This would require a Ranger to be deployed with the researcher so days are a minimum of 3 and a maximum of 5
	Feeding preferences	Preferences to tree species	Habitat management	1	1	All year	3	2.5	
Vocalizations	Communication	Species knowledge	1	1	All year	3	2.5		
3	Botanical research								
	Endangered species identification and mapping	Identifying endangered plant species	Conservation of endangered species	1	1	Spring/Summer	3	2.5	As with Giraffe ecology
Pollinator species for alien invasives identification	Insect species ID	Habitat management	1	1	Spring/Summer	3	2.5		
4	Jackal ecology								
Predatory behaviour/preferred prey species/hunting success rate	As the most common predator	Species knowledge and game management	1	1	All year	3	2.5	As with Giraffe ecology	
5	Data analysis								
	Game count data	Trends or patterns	Optimal outcome of activity	1	0	All year	3	2.5	Office based activity as the data is already there to access
	Rhino ethogram data	Trends or patterns	Optimal outcome of activity	1	0	All year	3	2.5	
Giraffe ethogram data	Trends or patterns	Optimal outcome of activity	1	0	All year	3	2.5		
6	Intraspecific competition								
Dominance behaviour in male Kudu	Is too many males affecting breeding	Species management	1	1	Summer/Autumn	3	2.5	As with Giraffe ecology	
7	Interspecific competition								
Feeding competition between Bushbuck; Nyala and Kudu	Is the number of Kudu affecting feeding behaviour	All 3 species management	1	1	Spring/Summer	3	2.5	As with Giraffe ecology	
8	Ostrich mortality								
Survival of Ostrich chicks to 3 months (Predation ?)	Very little success so far - why	Species management	1	1	Spring/Summer	3	2.5	As with Giraffe ecology	
9	Predator ecology								
	Leopard density and identification	Largest predator	Spatial requirements	1	1	All year	3	2.5	As with Giraffe ecology
	Single Hyeana behaviour	Only one known individual	Species knowledge and management	1	1	All year	3	2.5	
Cheetah acclimation and release (Movement and hunting success)	Numerous - new species to reserve	Species knowledge and management	1	1	When introduction planned	3	2.5		

Spring/Summer = Nov; Dec; Jan; Feb; Mar
 Summer/Autumn = Feb; Mar; Apr; May
 Autumn/Winter = May; June; July; August; Sep
 Wnter/Spring = August; Sep; Oct; Nov; Dec