



Appendix: chimpanzee abundance within forests and threats analysis

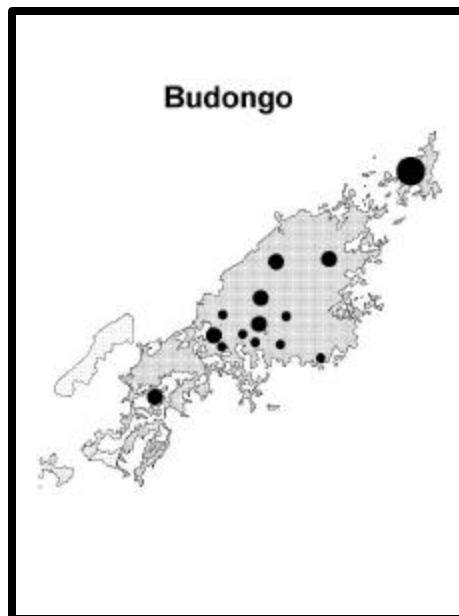


*Camp site in Kasyoha-Kitomi Forest Reserve. A.Plumtre, WCS*

### **Budongo Forest Reserve**

#### *Distribution of chimpanzee nests*

Chimpanzees were distributed throughout the forest reserve as depicted in the figure below. The figure shows the central point of sectors surveyed within the forest and the size of the circle reflects the relative abundance of the chimpanzee nests.



*Threats analysis*

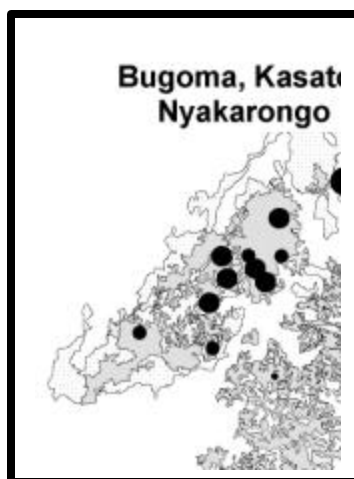
The details of the threats analysis for Budongo Forest Reserve are given in the table below:

Threat	Area	Impact	Urgency	Total	Rank
<b>Hunting</b>	2	2	3	7	1
<i>Dogs/Nets/Spears</i>					
<i>Snares</i>	13	5	10	28	10
<b>Charcoal burning</b>	4	9	7	20	6
<b>Crop raiding</b>	9	1	8	18	4
<b>Encroachment</b>	3	13	13	29	11
<b>Fire</b>	5	10	6	21	7
<b>Firewood Collection</b>	10	7	9	26	9
<i>Household</i>					
<b>Grazing</b>	1	4	4	9	2
<b>Medicinal plant collection</b>	8	3	5	16	3
<b>NTFP</b>	11	8	11	30	13
<i>General</i>					
<i>Rattan</i>	12	6	12	30	13
<b>Pitsawing</b>	14	12	14	40	14
<i>Illegal</i>					
<i>Legal</i>	6	12	2	20	6
<b>Research</b>	1	4	1	6	1
<b>Sawmilling</b>	7	14	1	22	8
<b>Tourism</b>	4	3	1	8	1

**Bugoma Forest Reserve**

*Distribution of chimpanzee nests*

Chimpanzees were distributed throughout the forest reserve as depicted in the figure below. The large circle to the north east was Wambabya Forest Reserve which had a high density of nests.



*Threats analysis*

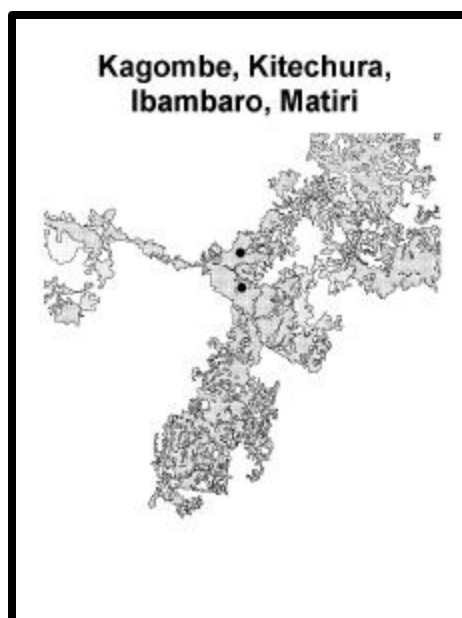
The details of the threats analysis for Bugoma Forest Reserve are given in the table below:

Threat	Area	Impact	Urgency	Total	Rank	
<b>Hunting</b> <i>Snares</i>	9	2	6	17	6	
<b>Crop raiding</b>	5	1	4	10	2	
<b>Encroachment</b>	4	11	10	25	10	
<b>Fire</b>	2	8	5	15	5	
<b>Firewood</b> <i>Household</i>	6	5	9	20	7	
<b>Grazing</b>	3	4	3	10	2	
<b>Medicinal plant collection</b>	7	4	2	13	4	
<b>NTFP</b> <i>General</i>	8	7	9	24	9	
<b>Pitsawing</b> <i>Illegal</i>	10	6	7	23	8	
<i>Legal</i>	11	10	11	32	11	
	<i>Legal</i>	1	10	1	12	3

**Kagombe, Kitechura, Ibambaro and Matiri Forest Reserves**

*Distribution of chimpanzee nests*

Chimpanzees were distributed throughout the forest reserves as depicted in the figure below. Chimpanzees and their nests were only recorded in Kagombe forest.



Threats analysis

The details of the threats analysis for Kagombe, Kitechura, Ibambaro and Matiri Forest Reserves are given in the tables below:

Kagombe FR

Threat	Area	Impact	Urgency	Total	Rank
<b>Hunting</b>	13	9	10	32	11
<i>Dogs/Nets/Spears</i>					
<i>Mantraps</i>	2	2	3	7	1
<i>Pitfall traps</i>	10	5	10	25	8
<i>Snares</i>	8	8	10	26	10
<b>Charcoal burning</b>	4	7	6	17	6
<b>Crop raiding</b>	6	4	5	15	5
<b>Encroachment</b>	3	11	11	25	8
<b>Fire</b>	1	6	4	11	4
<b>Firewood</b>	12	12	12	36	12
<i>Household</i>					
<b>Medicinal plant collection</b>	5	3	2	10	3
<b>NTFP</b>	9	10	7	26	9
<i>General</i>					
<b>Pitsawing</b>	11	13	13	37	13
<i>Illegal</i>					
<b>Water Collection</b>	7	1	1	9	2

Kitechura & Ibambaro FR

Threat	Area	Impact	Urgency	Total	Rank
<b>Hunting</b>	10	4	6	20	6
<i>Dogs/Nets/Spears</i>					
<i>Mantraps</i>	5	5	11	21	8
<i>Pitfall traps</i>	6	3	8	17	5
<i>Snares</i>	13	6	11	30	12
<b>Charcoal burning</b>	9	12	9	30	12
<b>Crop raiding</b>	3	1	4	8	2
<b>Encroachment</b>	2	14	14	30	12
<b>Fire</b>	14	13	13	40	14
<b>Firewood</b>	8	8	5	21	8
<i>Household</i>					
<b>Grazing</b>	7	7	3	17	5
<b>Medicinal plant collection</b>	4	2	1	7	1
<b>Mining</b>	1	11	2	14	3
<i>(Sand)</i>					
<b>NTFP</b>	12	9	7	28	9
<i>General</i>					
<b>Pitsawing</b>	11	11	12	34	13
<i>Illegal</i>					

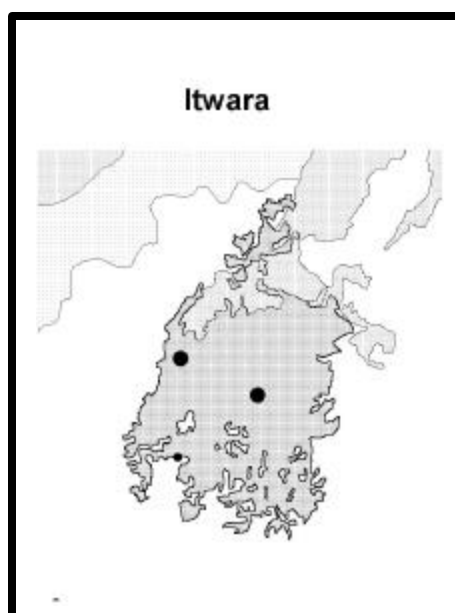
Matiri FR

Threat	Area	Impact	Urgency	Total	Rank
<b>Hunting</b>	7	3	4	14	4
<i>Dogs/Nets/Spears</i>					
<i>Pitfall traps</i>	3	3	3	9	2
<i>Snares</i>	12	5	11	28	12
<b>Charcoal burning</b>	8	9	10	27	10
<b>Crop raiding</b>	1	1	5	7	1
<b>Encroachment</b>	4	12	12	28	12
<b>Fire</b>	2	10	9	21	6
<b>Firewood</b>	11	6	7	24	8
<i>Household</i>					
<b>Medicinal plant collection</b>	5	4	2	11	3
<b>NTFP</b>	10	7	6	23	7
<i>General</i>					
<b>Pitsawing</b>	9	8	8	25	9
<i>Illegal</i>					
<b>Roads</b>	6	12	1	19	5

**Itwara Forest Reserve**

*Distribution of chimpanzee nests*

Chimpanzees were distributed throughout the forest reserve as depicted in the figure below. The figure shows the central point of sectors surveyed within the forest and the size of the circle reflects the relative abundance of the chimpanzee nests.



*Threats analysis*

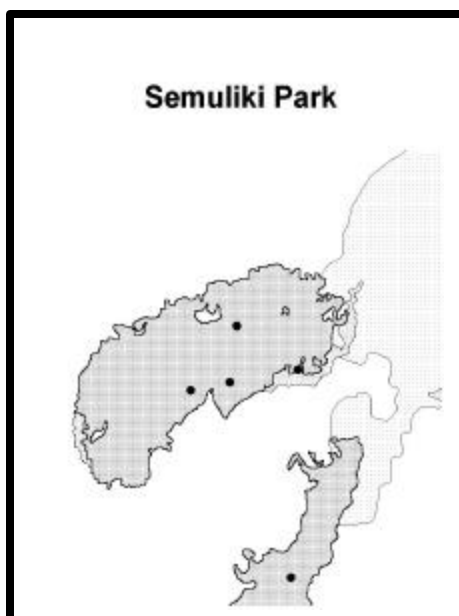
The details of the threats analysis for Itwara Forest Reserve are given in the table below:

Threat	Area	Impact	Urgency	Total	Rank
<b>Hunting</b>	11	6	9	26	10
<i>Dogs/Nets/Spears</i>					
<i>Snares</i>	1	2	4	7	1
<b>Crop raiding</b>	5	4	3	12	3
<b>Encroachment</b>	3	11	11	25	9
<b>Firewood</b>	7	9	6	22	7
<i>Household</i>					
<b>Grazing</b>	4	5	5	14	5
<b>NTFP</b>	9	1	1	11	2
<b>Coffee</b>					
<i>Bush ropes</i>	8	3	2	13	4
<i>Poles</i>	10	7	7	24	8
<b>Pitsawing</b>	6	10	11	27	11
<i>Illegal</i>					
<i>Legal</i>	2	8	8	18	6

**Semuliki National Park**

*Distribution of chimpanzee nests*

Chimpanzees were distributed throughout the park as depicted in the figure below. The number of calling chimpanzees indicated that they occurred in the far west of the forest in reasonable numbers but due to insecurity we were unable to access here.



*Threats analysis*

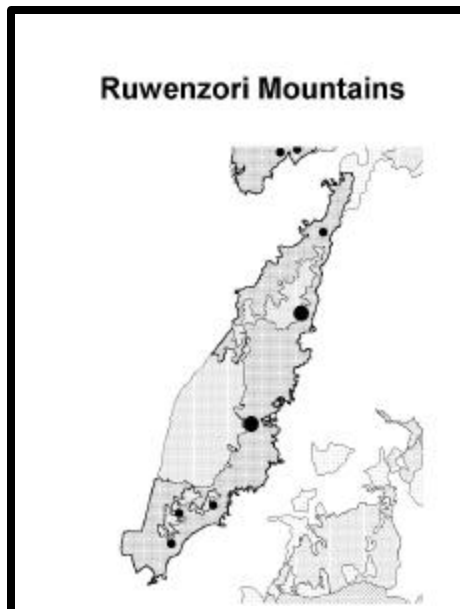
The details of the threats analysis for Semuliki National Park are given in the table below:

Threat	Area	Impact	Urgency	Total	Rank
<b>Hunting</b> <i>Dogs/Nets/Spears</i>	11	6	9	26	8
<i>Snares</i>	12	7	10	29	11
<b>Crop raiding</b>	5	1	6	12	4
<b>Fire</b>	4	3	1	8	2
<b>Fishing</b>	2	5	8	15	5
<b>Firewood</b> <i>Household</i>	6	12	7	25	7
<b>Grazing</b>	3	4	2	9	3
<b>Medicinal plant collection</b>	1	2	3	6	1
<b>Mining</b> <i>(oil)</i>	?	?	?	?	low
<b>NTFP</b> <i>Palms</i>	?	?	?	?	low
<i>Bush ropes</i>	8	8	5	21	6
<i>Poles</i>	8	9	11	28	10
<i>Rattan</i>	9	11	12	32	12
<b>Rebels</b>	13	10	13	36	13
<b>Roads</b>	10	13	4	27	9
<b>Tourism</b>	?	?	?	?	low

**Ruwenzori Mountains National Park**

*Distribution of chimpanzee nests*

Chimpanzees were distributed throughout the park as depicted in the figure below, showing they are confined to the lower altitudes in the park.



*Threats analysis*

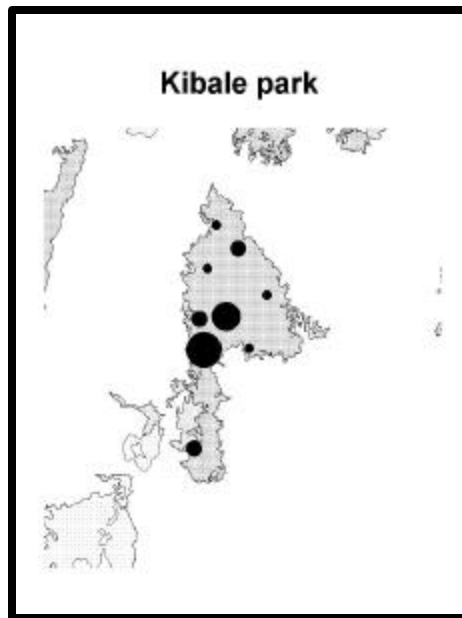
The details of the threats analysis for Ruwenzori Mountains National Park are given in the table below:

Threat	Area	Impact	Urgency	Total	Rank
<b>Hunting</b>	6	7	6	19	7
<i>Firearms</i>					
<i>Dogs/Nets/Spears</i>	2	1	1	4	1
<i>Snares</i>	5	4	5	14	5
<i>Animal collecting</i>	?	?	?	?	?
<b>Fire</b>	1	6	2	9	3
<b>NTFP</b>	3	3	4	10	4
<i>General</i>					
<b>Pitsawing</b>	4	2	3	9	3
<i>Illegal</i>					
<b>Rebels</b>	7	5	7	19	7
<b>Tourism</b>	?	?	?	?	?

**Kibale National Park**

*Distribution of chimpanzee nests*

Chimpanzees were distributed throughout the park as depicted in the figure below. The highest densities were around the Ngogo research station and the Kanyanchu tourism site.



*Threats analysis*

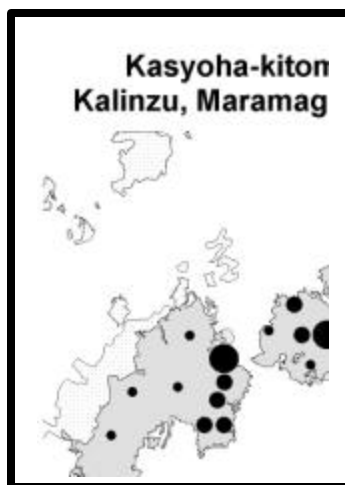
The details of the threats analysis for Kibale National Park are given in the table below:

Threat	Area	Impact	Urgency	Total	Rank
<b>Hunting</b> <i>Dogs/Nets/Spears</i>	9	6	10	25	10
<i>Pitfall traps</i>	7	6	10	23	8
<i>Snares</i>	16	7	14	37	15
<b>Chemical effluent</b>	3	6	5	14	4
<b>Charcoal burning</b>	10	14	15	39	16
<b>Crop raiding</b>	6	1	5	12	3
<b>Fire</b>	11	17	16	44	17
<b>Firewood</b> <i>Household</i>	13	8	12	33	12
<b>Grazing</b>	8	4	8	20	6
<b>Medicinal plant collection</b>	5	3	3	11	2
<b>Mining</b> <i>(Sand)</i>	2	17	4	23	8
<b>NTFP</b> <i>General</i>	14	10	13	37	15
<b>Pitsawing</b> <i>Illegal</i>	15	15	17	47	18
<b>Rebels</b>	4	9	11	24	9
<b>Research</b>	17	13	7	37	15
<b>Roads</b> <i>(FACE foundation)</i>	3	11	2	16	5
<b>Tourism</b>	12	13	7	32	11
<b>Water collection</b>	1	2	1	4	1

**Kasyoha-Kitomi, Kalinzu and Maramagambo Forest Reserves**

*Distribution of chimpanzee nests*

Chimpanzees were distributed throughout the forest reserves as depicted in the figure below. Kalinzu Forest had the highest densities; much higher than the contiguous Maramagambo forest which is at a lower altitude.



*Threats analysis*

The details of the threats analysis for the three forest reserves are given in the table below:

*Kasyoha-Kitomi Forest Reserve*

<b>Threat</b>	<b>Area</b>	<b>Impact</b>	<b>Urgency</b>	<b>Total</b>	<b>Rank</b>
<b>Hunting</b>	7	2	2	11	1
<i>Firearms</i>					
<i>Dogs/Nets/Spears</i>	15	3	14	32	13
<i>Snares</i>	15	4	14	33	14
<b>Charcoal burning</b>	3	11	12	26	9
<b>Crop raiding</b>	11	1	5	17	4
<b>Encroachment</b>	4	16	16	36	15
<b>Fire</b>	5	12	7	24	7
<b>Firewood</b>	9	10	11	30	12
<i>Commercial</i>					
<i>Household</i>	13	10	4	27	10
<b>Grazing</b>	2	6	8	16	3
<b>Medicinal plant collection</b>	10	5	1	16	3
<b>Mining</b>	8	8	6	22	5
<b>NTFP</b>	12	7	10	29	11
<i>General</i>					
<b>Pitsawing</b>	16	14	15	45	16
<i>Illegal</i>					
<i>Legal</i>	6	14	3	23	6
<b>Roads</b>	1	15	9	25	8

## Kalinzu Forest Reserve

Threat	Area	Impact	Urgency	Total	Rank
<b>Hunting</b>	2	3	4	9	3
<i>Firearms</i>					
<i>Dogs/Nets/Spears</i>	12	7	10	29	11
<i>Snares</i>	11	7	10	28	9
<b>Charcoal burning</b>	13	14	13	40	13
<b>Crop raiding</b>	3	2	2	7	1
<b>Encroachment</b>	7	10	12	29	11
<b>Fire</b>	4	9	8	21	6
<b>Firewood</b>	9	11	11	31	12
<i>Commercial</i>					
<i>Household</i>	8	8	5	21	7
<b>Grazing</b>	5	6	7	18	4
<b>Mining</b>	1	4	3	8	2
<b>NTFP</b>	10	5	9	24	8
<i>General</i>					
<b>Pitsawing</b>	14	13	14	41	14
<i>Illegal</i>					
<i>Legal</i>	6	12	6	24	8
<b>Research</b>	?	?	?	?	?
<b>Roads</b>	?	?	?	?	?
<b>Sawmilling</b>	6	12	6	24	8
<b>Tourism</b>	?	?	?	?	?

## Maramagambo Forest Reserve

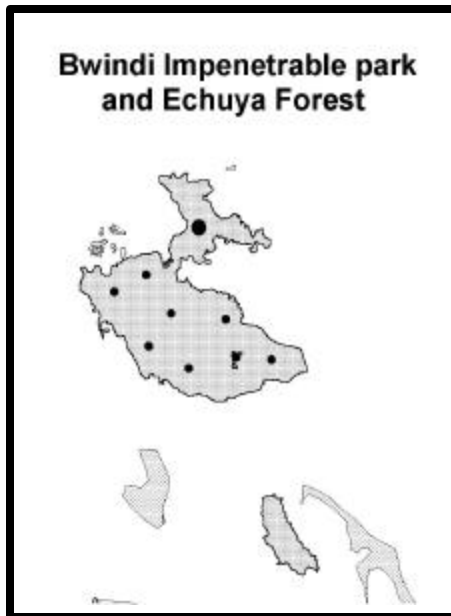
Threat	Area	Impact	Urgency	Total	Rank
<b>Hunting</b>	3	3	4	10	4
<i>Firearms</i>					
<i>Dogs/Nets/Spears</i>	12	7	11	30	11
<i>Snares</i>	11	6	11	28	9
<b>Charcoal burning</b>	9	12	12	33	12
<b>Crop raiding</b>	6	1	3	10	4
<b>Encroachment</b>	2	10	8	20	7
<b>Fire</b>	?	?	?	?	?
<b>Firewood</b>	8	8	5	21	8
<i>Household</i>					
<b>Fishing</b>	7	5	7	19	5
<b>NTFP</b>	4	4	2	10	4
<i>Bush ropes</i>					
<i>Poles</i>	5	9	6	20	7
<b>Pitsawing</b>	10	11	9	30	11
<i>Illegal</i>					
<b>Rebels</b>	1	2	1	4	1
<b>Roads</b> ( <i>paths made by people</i> )	?	?	?	?	?

<b>Tourism</b>	?	?	?	?	?
<b>Water Collection</b>	?	?	?	?	?

**Bwindi Impenetrable National Park and Echuya Forest Reserve**

*Distribution of chimpanzee nests*

Chimpanzees were distributed throughout the forests as depicted in the figure below. No chimpanzees were found in Echuya but in Bwindi the nests were fairly evenly distributed across the forest with slightly higher densities at lower altitudes.



*Threats analysis*

The details of the threats analysis for Bwindi Impenetrable National Park and Echuya Forest Reserve are given in the tables below:

*Bwindi Impenetrable National Park*

Threat	Area	Impact	Urgency	Total	Rank
<b>Hunting</b> <i>Dogs/Nets/Spears</i>	1	8	7	16	7
<i>Snares</i>	8	8	8	24	8
<b>Crop raiding</b> <i>elephant, gorilla, baboon</i>	4	2	2	8	1
<b>Fire</b>	5	6	6	17	7
<b>Firewood</b> <i>Household use</i>	2	3	4	9	2
<b>Grazing</b>	3	4	3	10	3
<b>Medicinal plant collection</b>	7	7	1	15	4
<b>NTFP</b> <i>General</i>	6	5	5	16	5
<b>Research</b>	?	?	?	?	?
<b>Tourism</b>	?	?	?	?	?

*Echuya Forest Reserve*

Threat	Area	Impact	Urgency	Total	Rank
<b>Hunting</b> <i>Dogs/Nets/Spears</i>	1	1	1	3	2
<i>Snares</i>	1	1	1	3	2
<b>Firewood (Bamboo)</b> <i>Commercial</i>	4	4	4	12	6
<b>(Bamboo) Household</b>	4	4	4	12	6
<b>Grazing</b>	2	2	2	6	3
<b>NTFP</b> <i>Bamboo</i>	3	3	3	9	4