



REVISTA DE LA ACADEMIA
COLOMBIANA DE CIENCIAS
EXACTAS, FÍSICAS Y NATURALES

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Supplementary material

Estimating density and occupancy of *Penelope perspicax* (Cauca Guan) and *Alouatta seniculus* (Colombian Red Howler Monkey) in the Otún Quimbaya Fauna and Flora Sanctuary, Colombia

Estimación de densidad y ocupación de *Penelope perspicax* (Pava caucana) y *Alouatta seniculus* (Mono aullador rojo colombiano) en el Santuario de Fauna y Flora Otún
Quimbaya, Colombia

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Occupancy

RPresence code occupancy

```
library(RPresence)
```

```
library(readxl)
```

```
# 1. Leer base de datos
```

```
data <- read_excel("DehistAsOQ.xlsx")
```

```
# 2. Extraer historia de detección (columnas 2:38)
```

```
dehist <- as.matrix(data[, 2:38])
```

```
# 3. Extraer covariables de sitio
```

```
covs <- data[, c("BDA", "DisZRGE")]
```

```
# 4. Crear objeto PAO
```

```
pao <- createPao(dehist, unitcov = covs)
```

```
# 5. Ajustar modelos
```

```
m1 <- occMod(model = list(psi ~ 1, p ~ 1), data = pao)          # Psi(.) p(.)
```

```
m2 <- occMod(model = list(psi ~ BDA + DisZRGE, p ~ 1), data = pao)  # Psi(BDA+DisZRGE)p(.)
```

```
m3 <- occMod(model = list(psi ~ BDA, p ~ 1), data = pao)          # Psi(BDA)p(.)
```

```
m4 <- occMod(model = list(psi ~ DisZRGE, p ~ 1), data = pao)      # Psi(DisZRGE)p(.)
```

```
m5 <- occMod(model = list(psi ~ BDA + DisZRGE + BDA * DisZRGE, p ~ 1), data = pao)  #  
Psi(BDA+DisZRGE+BDA*DisZRGE)p(.)
```

```
# 6. Resumen por AIC
```

```
mods <- list(m1, m2, m3, m4, m5)
```

```
results<-createAicTable(mods)
```

```
summary(results)
print(results$table)
```

```
# coeficientes de modelos
```

```
coefm2<-coef(m2, param = "psi", prob = 0.95)
```

```
coefm3<-coef(m3, param = "psi", prob = 0.95)
```

```
coefm4<-coef(m4, param = "psi", prob = 0.95)
```

```
coefm5<-coef(m5, param = "psi", prob = 0.95)
```

```
results2<-list(coefm2, coefm3, coefm4, coefm5)
```

[illegible]

```
.Dim = c(29,37)))
```

Openbugs code occupancy Penelope perspicax with visit history

[illegible]

0,1,0,0,1,0,1,1,0,1,1,0,1,0,0,0,0,0,0,0,0,0,1,1,1,0,0,0,0,0,0,NA,NA,NA,
1,1,0,0,1,0,0,0,1,0,0,0,1,0,0,0,1,0,1,0,0,0,0,0,1,1,0,0,0,0,0,1,0,NA,NA,NA,
0,1,0,0,0,0,0,0,NA,NA,NA,NA,NA,NA,NA,NA,NA,NA,NA,
0,0,1,1,0,1,0,NA,NA,NA,NA,NA,NA,NA,NA,NA,NA,NA,
1,0,1,0,1,0,1,1,1,1,1,1,0,0,0,0,1,1,0,0,0,1,1,1,1,0,0,1,0,1,NA,NA,NA,NA,NA,NA,NA,
1,0,0,0,1,0,0,0,1,1,1,1,1,1,0,0,1,0,1,1,0,0,1,0,0,0,1,0,0,0,0,NA,NA,NA,NA,NA,
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0,0,0,1,0,0,0,0,1,0,0,1,0,1,0,0,0,0,0,0,0,0,0,0,0,0,0,0,1,0,0,0,1,0,0,1,NA,NA,NA,NA,
1,0,1,1,1,0,0,0,0,0,0,0,0,0,0,1,1,0,0,0,1,0,0,0,0,0,0,0,0,0,0,0,NA,NA,NA,NA,
0,0,0,0,0,0,1,1,0,0,0,0,0,0,0,0,0,0,1,0,1,0,0,1,0,0,0,0,0,0,0,0,0,1,0,NA,NA,
1,0,0,0,0,1,1,1,0,1,1,0,0,0,0,0,0,0,0,0,0,0,0,
0,0,0,0,0,0,0,0,1,0,1,0,0,0,1,1,NA,
0,0,0,0,0,0,0,0,0,1,0,0,0,1,0,1,0,1,0,1,0,0,0,0,1,0,0,0,0,0,0,0,0,0,1,1,NA,NA,
0,0,0,0,1,1,1,1,0,0,0,0,0,0,0,1,1,0,0,1,1,0,1,0,0,0,1,1,1,0,0,1,0,0,1,NA,NA,
1,0,0,0,1,1,0,0,0,0,0,1,1,1,1,0,0,0,0,0,0,1,0,0,0,0,0,0,0,1,0,0,0,0,0,NA,NA,
0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,1,0,0,0,0,0,0,0,1,0,0,0,0,1,0,NA,NA,NA,NA),

.Dim = c(29,37)))

Population density

Data to Distance Alouatta seniculus

Region.Label	Area	Sample.Label	Effort	distance	size
SFF Otun Quimbaya	4.89	B1	14		
SFF Otun Quimbaya	4.89	B2	14	0.0062	2
SFF Otun Quimbaya	4.89	B2	14	0	7
SFF Otun Quimbaya	4.89	B3	14.405		
SFF Otun Quimbaya	4.89	B4	14.58	0.3	1
SFF Otun Quimbaya	4.89	C1	14	0.01287	7
SFF Otun Quimbaya	4.89	C1	14	0.0138	9
SFF Otun Quimbaya	4.89	C2	14		
SFF Otun Quimbaya	4.89	C3	14.4	0.01221	6
SFF Otun Quimbaya	4.89	C3	14.4	0.0192	6
SFF Otun Quimbaya	4.89	C3	14.4	0	7
SFF Otun Quimbaya	4.89	C3	14.4	0.0318	6
SFF Otun Quimbaya	4.89	C3	14.4	0.037	7
SFF Otun Quimbaya	4.89	C3	14.4	0	5
SFF Otun Quimbaya	4.89	C3	14.4	0	5
SFF Otun Quimbaya	4.89	C4	0.8		
SFF Otun Quimbaya	4.89	D1	11.2		
SFF Otun Quimbaya	4.89	D2	10.39	0.0322	1
SFF Otun Quimbaya	4.89	D2	10.39	0.002	5
SFF Otun Quimbaya	4.89	D3	6.6	0.0074	6
SFF Otun Quimbaya	4.89	D3	6.6	0.0228	3
SFF Otun Quimbaya	4.89	D3	6.6	0.15	2
SFF Otun Quimbaya	4.89	E1	14.4	0.0039	6
SFF Otun Quimbaya	4.89	E2	14.22	0.3	4
SFF Otun Quimbaya	4.89	E2	14.22	0.019	2

SFF Otun Quimbaya	4.89	E2	14.22	0.0085	2
SFF Otun Quimbaya	4.89	E2	14.22	0.15	1
SFF Otun Quimbaya	4.89	E2	14.22	0.0195	5
SFF Otun Quimbaya	4.89	F1	13	0.00593	7
SFF Otun Quimbaya	4.89	F2	13	0.02952	4
SFF Otun Quimbaya	4.89	F3	10.4		
SFF Otun Quimbaya	4.89	F4	10.4		
SFF Otun Quimbaya	4.89	G1	11.2	0.0184	6
SFF Otun Quimbaya	4.89	G1	11.2	0.14	5
SFF Otun Quimbaya	4.89	G1	11.2	0.05	11
SFF Otun Quimbaya	4.89	G2	11.505	0.001	3
SFF Otun Quimbaya	4.89	G2	11.505	0.1	9
SFF Otun Quimbaya	4.89	G3	7.56	0.008	2
SFF Otun Quimbaya	4.89	H1	13.86	0.00406	5
SFF Otun Quimbaya	4.89	H1	13.86	0.044	3
SFF Otun Quimbaya	4.89	H1	13.86	0.0173	6
SFF Otun Quimbaya	4.89	H1	13.86	0.0198	5
SFF Otun Quimbaya	4.89	H1	13.86	0.04	5
SFF Otun Quimbaya	4.89	H2	12.92	0.011	3
SFF Otun Quimbaya	4.89	H2	12.92	0.01158	5
SFF Otun Quimbaya	4.89	I1	14	0.0133	6
SFF Otun Quimbaya	4.89	I2	14.6	0.02	5
SFF Otun Quimbaya	4.89	I2	14.6	0.005	6
SFF Otun Quimbaya	4.89	I2	14.6	0.00411	5
SFF Otun Quimbaya	4.89	I3	14.4	0	8
SFF Otun Quimbaya	4.89	I3	14.4	0.022	5
SFF Otun Quimbaya	4.89	I3	14.4	0.03	5
SFF Otun Quimbaya	4.89	I3	14.4	0.03	5

SFF Otun Quimbaya	4.89	I3	14.4	0.01924	10
SFF Otun Quimbaya	4.89	I3	14.4	0.0179	11
SFF Otun Quimbaya	4.89	I4	14	0.04528	8
SFF Otun Quimbaya	4.89	I4	14	0.00696	10
SFF Otun Quimbaya	4.89	I4	14	0.01128	7
SFF Otun Quimbaya	4.89	I5	14	0.0187	4
SFF Otun Quimbaya	4.89	I5	14	0.0187	4
SFF Otun Quimbaya	4.89	I5	14	0.022	2
SFF Otun Quimbaya	4.89	I5	14	0.0215	1
SFF Otun Quimbaya	4.89	I5	14	0.0155	3
SFF Otun Quimbaya	4.89	I6	14		
SFF Otun Quimbaya	4.89	I7	13.2	0.01574	5
SFF Otun Quimbaya	4.89	I7	13.2	0.0287	5
SFF Otun Quimbaya	4.89	I7	13.2	0.018	5
SFF Otun Quimbaya	4.89	I7	13.2	0.015	5
SFF Otun Quimbaya	4.89	I7	13.2	0.06	5
SFF Otun Quimbaya	4.89	I7	13.2	0.04	5
SFF Otun Quimbaya	4.89	I7	13.2	0.035	6
SFF Otun Quimbaya	4.89	I7	13.2	0.1	3

Data to Distance Penelope perspicax

Region.Label	Area	Sample.Label	Effort	distance	size
SFF Otun Quimbaya	4.89	B1	14000	6.89	1
SFF Otun Quimbaya	4.89	B1	14000	9.1	1
SFF Otun Quimbaya	4.89	B1	14000	52.3	1
SFF Otun Quimbaya	4.89	B2	14000	50	2
SFF Otun Quimbaya	4.89	B2	14000	18.39	1
SFF Otun Quimbaya	4.89	B2	14000	7.04	1
SFF Otun Quimbaya	4.89	B2	14000	11.1	2
SFF Otun Quimbaya	4.89	B2	14000	12.25	2
SFF Otun Quimbaya	4.89	B2	14000	16.8	1
SFF Otun Quimbaya	4.89	B2	14000	13.4	1
SFF Otun Quimbaya	4.89	B2	14000	34.5	1
SFF Otun Quimbaya	4.89	B2	14000	1.8	2
SFF Otun Quimbaya	4.89	B2	14000	9.1	1
SFF Otun Quimbaya	4.89	B2	14000	2.5	2
SFF Otun Quimbaya	4.89	B2	14000	10.5	1
SFF Otun Quimbaya	4.89	B2	14000	0	1
SFF Otun Quimbaya	4.89	B3	14405	20.4	2
SFF Otun Quimbaya	4.89	B3	14405	4.5	3
SFF Otun Quimbaya	4.89	B3	14405	13.1	2
SFF Otun Quimbaya	4.89	B3	14405	2.61	1
SFF Otun Quimbaya	4.89	B3	14405	23.6	1
SFF Otun Quimbaya	4.89	B3	14405	3.8	1
SFF Otun Quimbaya	4.89	B3	14405	9.05	2
SFF Otun Quimbaya	4.89	B3	14405	12.7	2
SFF Otun Quimbaya	4.89	B4	14580	0	1
SFF Otun Quimbaya	4.89	B4	14580	13.7	1

SFF Otun Quimbaya	4.89	B4	14580	3.7	2
SFF Otun Quimbaya	4.89	B4	14580	15.3	4
SFF Otun Quimbaya	4.89	B4	14580	17.8	1
SFF Otun Quimbaya	4.89	B4	14580	5	1
SFF Otun Quimbaya	4.89	B4	14580	8	2
SFF Otun Quimbaya	4.89	C1	14000	22.1	1
SFF Otun Quimbaya	4.89	C1	14000	9.8	2
SFF Otun Quimbaya	4.89	C1	14000	0	2
SFF Otun Quimbaya	4.89	C1	14000	3	2
SFF Otun Quimbaya	4.89	C1	14000	13	2
SFF Otun Quimbaya	4.89	C1	14000	11.8	1
SFF Otun Quimbaya	4.89	C1	14000	18	5
SFF Otun Quimbaya	4.89	C1	14000	0	1
SFF Otun Quimbaya	4.89	C1	14000	0	3
SFF Otun Quimbaya	4.89	C1	14000	0	3
SFF Otun Quimbaya	4.89	C1	14000	0	1
SFF Otun Quimbaya	4.89	C1	14000	11.04	1
SFF Otun Quimbaya	4.89	C1	14000	19.8	1
SFF Otun Quimbaya	4.89	C1	14000	21.8	2
SFF Otun Quimbaya	4.89	C1	14000	3	3
SFF Otun Quimbaya	4.89	C1	14000	11.5	4
SFF Otun Quimbaya	4.89	C1	14000	3.9	3
SFF Otun Quimbaya	4.89	C1	14000	16.3	1
SFF Otun Quimbaya	4.89	C1	14000	2.67	3
SFF Otun Quimbaya	4.89	C1	14000	5.81	6
SFF Otun Quimbaya	4.89	C1	14000	2.5	8
SFF Otun Quimbaya	4.89	C1	14000	0	1
SFF Otun Quimbaya	4.89	C1	14000	0	2

SFF Otun Quimbaya	4.89	C2	14000	16.17	2
SFF Otun Quimbaya	4.89	C2	14000	18.2	1
SFF Otun Quimbaya	4.89	C2	14000	1.8	3
SFF Otun Quimbaya	4.89	C2	14000	13.4	2
SFF Otun Quimbaya	4.89	C2	14000	6.2	1
SFF Otun Quimbaya	4.89	C2	14000	5.3	2
SFF Otun Quimbaya	4.89	C2	14000	18.85	1
SFF Otun Quimbaya	4.89	C2	14000	50	1
SFF Otun Quimbaya	4.89	C2	14000	24	1
SFF Otun Quimbaya	4.89	C2	14000	0	1
SFF Otun Quimbaya	4.89	C2	14000	3.9	1
SFF Otun Quimbaya	4.89	C2	14000	30	2
SFF Otun Quimbaya	4.89	C2	14000	12.8	1
SFF Otun Quimbaya	4.89	C2	14000	11.6	1
SFF Otun Quimbaya	4.89	C2	14000	13.3	2
SFF Otun Quimbaya	4.89	C2	14000	29.1	3
SFF Otun Quimbaya	4.89	C2	14000	21.7	2
SFF Otun Quimbaya	4.89	C2	14000	0	1
SFF Otun Quimbaya	4.89	C2	14000	12.8	2
SFF Otun Quimbaya	4.89	C2	14000	5.16	5
SFF Otun Quimbaya	4.89	C2	14000	0	2
SFF Otun Quimbaya	4.89	C3	14400	13.41	1
SFF Otun Quimbaya	4.89	C3	14400	8.6	1
SFF Otun Quimbaya	4.89	C3	14400	19.2	3
SFF Otun Quimbaya	4.89	C3	14400	12	1
SFF Otun Quimbaya	4.89	C3	14400	19.7	1
SFF Otun Quimbaya	4.89	C3	14400	14.3	1
SFF Otun Quimbaya	4.89	C3	14400	25.2	4

SFF Otun Quimbaya	4.89	C3	14400	3.4	2
SFF Otun Quimbaya	4.89	C3	14400	19.85	1
SFF Otun Quimbaya	4.89	C3	14400	6.9	1
SFF Otun Quimbaya	4.89	C3	14400	5.2	2
SFF Otun Quimbaya	4.89	C3	14400	0	3
SFF Otun Quimbaya	4.89	C4	800		
SFF Otun Quimbaya	4.89	D1	11200	3.09	1
SFF Otun Quimbaya	4.89	D2	10390	31.13	2
SFF Otun Quimbaya	4.89	D2	10390	2.68	4
SFF Otun Quimbaya	4.89	D2	10390	4.82	1
SFF Otun Quimbaya	4.89	D2	10390	15.72	1
SFF Otun Quimbaya	4.89	D2	10390	5.53	3
SFF Otun Quimbaya	4.89	D2	10390	22.45	2
SFF Otun Quimbaya	4.89	D2	10390	10.31	1
SFF Otun Quimbaya	4.89	D2	10390	22.5	1
SFF Otun Quimbaya	4.89	D3	6600	2.6	1
SFF Otun Quimbaya	4.89	D3	6600	12.3	1
SFF Otun Quimbaya	4.89	E1	14400	15	1
SFF Otun Quimbaya	4.89	E1	14400	14	2
SFF Otun Quimbaya	4.89	E1	14400	24.5	1
SFF Otun Quimbaya	4.89	E1	14400	0	1
SFF Otun Quimbaya	4.89	E1	14400	14.1	2
SFF Otun Quimbaya	4.89	E1	14400	0	6
SFF Otun Quimbaya	4.89	E1	14400	0	1
SFF Otun Quimbaya	4.89	E1	14400	15.5	1
SFF Otun Quimbaya	4.89	E1	14400	10.5	1
SFF Otun Quimbaya	4.89	E1	14400	15.44	1
SFF Otun Quimbaya	4.89	E1	14400	19.45	2

SFF Otun Quimbaya	4.89	E1	14400	15	1
SFF Otun Quimbaya	4.89	E1	14400	0	1
SFF Otun Quimbaya	4.89	E1	14400	17.5	1
SFF Otun Quimbaya	4.89	E2	14220	30	1
SFF Otun Quimbaya	4.89	E2	14220	0	1
SFF Otun Quimbaya	4.89	E2	14220	26	4
SFF Otun Quimbaya	4.89	E2	14220	15	2
SFF Otun Quimbaya	4.89	E2	14220	2.8	1
SFF Otun Quimbaya	4.89	E2	14220	0.8	3
SFF Otun Quimbaya	4.89	E2	14220	2	2
SFF Otun Quimbaya	4.89	F1	13000	17.81	2
SFF Otun Quimbaya	4.89	F1	13000	23.84	1
SFF Otun Quimbaya	4.89	F1	13000	14.23	1
SFF Otun Quimbaya	4.89	F1	13000	0	1
SFF Otun Quimbaya	4.89	F1	13000	16.6	1
SFF Otun Quimbaya	4.89	F1	13000	19	1
SFF Otun Quimbaya	4.89	F1	13000	14.8	1
SFF Otun Quimbaya	4.89	F1	13000	2.8	4
SFF Otun Quimbaya	4.89	F1	13000	10.9	1
SFF Otun Quimbaya	4.89	F1	13000	16.8	1
SFF Otun Quimbaya	4.89	F1	13000	12.7	3
SFF Otun Quimbaya	4.89	F1	13000	15.4	2
SFF Otun Quimbaya	4.89	F1	13000	50	2
SFF Otun Quimbaya	4.89	F1	13000	14.34	1
SFF Otun Quimbaya	4.89	F2	13000	0	1
SFF Otun Quimbaya	4.89	F2	13000	25.46	1
SFF Otun Quimbaya	4.89	F2	13000	9.8	2
SFF Otun Quimbaya	4.89	F2	13000	3	2

SFF Otun Quimbaya	4.89	F2	13000	0	8
SFF Otun Quimbaya	4.89	F2	13000	19	4
SFF Otun Quimbaya	4.89	F2	13000	8.03	2
SFF Otun Quimbaya	4.89	F2	13000	12.4	1
SFF Otun Quimbaya	4.89	F2	13000	20.7	2
SFF Otun Quimbaya	4.89	F2	13000	0	1
SFF Otun Quimbaya	4.89	F2	13000	15.7	1
SFF Otun Quimbaya	4.89	F2	13000	3	2
SFF Otun Quimbaya	4.89	F2	13000	10.8	2
SFF Otun Quimbaya	4.89	F2	13000	2.75	1
SFF Otun Quimbaya	4.89	F2	13000	17.7	3
SFF Otun Quimbaya	4.89	F2	13000	5.7	1
SFF Otun Quimbaya	4.89	F4	10400	10.25	1
SFF Otun Quimbaya	4.89	F4	10400	5.59	1
SFF Otun Quimbaya	4.89	F4	10400	13.33	1
SFF Otun Quimbaya	4.89	F4	10400	1.83	4
SFF Otun Quimbaya	4.89	G1	11200	21.61	2
SFF Otun Quimbaya	4.89	G1	11200	10.54	1
SFF Otun Quimbaya	4.89	G1	11200	20.29	1
SFF Otun Quimbaya	4.89	G1	11200	4.67	1
SFF Otun Quimbaya	4.89	G1	11200	19.33	1
SFF Otun Quimbaya	4.89	G1	11200	0	2
SFF Otun Quimbaya	4.89	G1	11200	8.3	1
SFF Otun Quimbaya	4.89	G1	11200	20	2
SFF Otun Quimbaya	4.89	G1	11200	10	2
SFF Otun Quimbaya	4.89	G1	11200	10	1
SFF Otun Quimbaya	4.89	G1	11200	21.9	1
SFF Otun Quimbaya	4.89	G1	11200	11.53	2

SFF Otun Quimbaya	4.89	G1	11200	17	2
SFF Otun Quimbaya	4.89	G1	11200	19.18	2
SFF Otun Quimbaya	4.89	G1	11200	3.5	1
SFF Otun Quimbaya	4.89	G1	11200	9.75	1
SFF Otun Quimbaya	4.89	G1	11200	16.75	2
SFF Otun Quimbaya	4.89	G1	11200	19.2	1
SFF Otun Quimbaya	4.89	G1	11200	12.06	1
SFF Otun Quimbaya	4.89	G1	11200	8.29	2
SFF Otun Quimbaya	4.89	G1	11200	10	2
SFF Otun Quimbaya	4.89	G1	11200	0	1
SFF Otun Quimbaya	4.89	G1	11200	20.3	1
SFF Otun Quimbaya	4.89	G1	11200	60	1
SFF Otun Quimbaya	4.89	G1	11200	7	1
SFF Otun Quimbaya	4.89	G1	11200	17.64	5
SFF Otun Quimbaya	4.89	G1	11200	10.44	3
SFF Otun Quimbaya	4.89	G1	11200	11.5	2
SFF Otun Quimbaya	4.89	G2	11505	1.24	1
SFF Otun Quimbaya	4.89	G2	11505	4.74	2
SFF Otun Quimbaya	4.89	G2	11505	25	1
SFF Otun Quimbaya	4.89	G2	11505	5.99	3
SFF Otun Quimbaya	4.89	G2	11505	12	8
SFF Otun Quimbaya	4.89	G2	11505	10	3
SFF Otun Quimbaya	4.89	G2	11505	10	2
SFF Otun Quimbaya	4.89	G2	11505	8.85	1
SFF Otun Quimbaya	4.89	G2	11505	1	3
SFF Otun Quimbaya	4.89	G2	11505	14	7
SFF Otun Quimbaya	4.89	G2	11505	10	15
SFF Otun Quimbaya	4.89	G2	11505	15	5

SFF Otun Quimbaya	4.89	G2	11505	20.21	2
SFF Otun Quimbaya	4.89	G2	11505	18	2
SFF Otun Quimbaya	4.89	G2	11505	2.6	6
SFF Otun Quimbaya	4.89	G2	11505	20.7	3
SFF Otun Quimbaya	4.89	G2	11505	9.5	1
SFF Otun Quimbaya	4.89	G2	11505	22.5	4
SFF Otun Quimbaya	4.89	G2	11505	19.7	3
SFF Otun Quimbaya	4.89	G2	11505	5.23	1
SFF Otun Quimbaya	4.89	G2	11505	8	2
SFF Otun Quimbaya	4.89	G2	11505	16.7	1
SFF Otun Quimbaya	4.89	G2	11505	10.5	3
SFF Otun Quimbaya	4.89	G3	7560	2.3	2
SFF Otun Quimbaya	4.89	G3	7560	11.15	1
SFF Otun Quimbaya	4.89	G3	7560	5	2
SFF Otun Quimbaya	4.89	G3	7560	3.3	1
SFF Otun Quimbaya	4.89	H1	13860	4.44	2
SFF Otun Quimbaya	4.89	H1	13860	30	2
SFF Otun Quimbaya	4.89	H1	13860	6.6	1
SFF Otun Quimbaya	4.89	H1	13860	20	1
SFF Otun Quimbaya	4.89	H1	13860	25.9	1
SFF Otun Quimbaya	4.89	H1	13860	27.3	1
SFF Otun Quimbaya	4.89	H1	13860	8.8	3
SFF Otun Quimbaya	4.89	H1	13860	22.5	1
SFF Otun Quimbaya	4.89	H1	13860	0.75	1
SFF Otun Quimbaya	4.89	H1	13860	13.2	1
SFF Otun Quimbaya	4.89	H1	13860	1.41	1
SFF Otun Quimbaya	4.89	H1	13860	6.3	3
SFF Otun Quimbaya	4.89	H1	13860	15.4	1

SFF Otun Quimbaya	4.89	H2	12920	11.63	1
SFF Otun Quimbaya	4.89	H2	12920	0	1
SFF Otun Quimbaya	4.89	H2	12920	11	2
SFF Otun Quimbaya	4.89	H2	12920	4.68	1
SFF Otun Quimbaya	4.89	H2	12920	9.7	6
SFF Otun Quimbaya	4.89	H2	12920	2.88	2
SFF Otun Quimbaya	4.89	H2	12920	7.4	3
SFF Otun Quimbaya	4.89	H2	12920	8.3	5
SFF Otun Quimbaya	4.89	H2	12920	23.7	1
SFF Otun Quimbaya	4.89	H2	12920	7.9	2
SFF Otun Quimbaya	4.89	I1	14000	30	2
SFF Otun Quimbaya	4.89	I1	14000	0	1
SFF Otun Quimbaya	4.89	I1	14000	6.2	1
SFF Otun Quimbaya	4.89	I1	14000	24.9	6
SFF Otun Quimbaya	4.89	I1	14000	8	1
SFF Otun Quimbaya	4.89	I1	14000	35.1	2
SFF Otun Quimbaya	4.89	I2	14600	5	2
SFF Otun Quimbaya	4.89	I2	14600	40	3
SFF Otun Quimbaya	4.89	I2	14600	20	1
SFF Otun Quimbaya	4.89	I2	14600	23.8	2
SFF Otun Quimbaya	4.89	I2	14600	0	1
SFF Otun Quimbaya	4.89	I2	14600	5.22	2
SFF Otun Quimbaya	4.89	I3	14400	23	4
SFF Otun Quimbaya	4.89	I3	14400	7	4
SFF Otun Quimbaya	4.89	I3	14400	0	4
SFF Otun Quimbaya	4.89	I3	14400	1.3	1
SFF Otun Quimbaya	4.89	I3	14400	5.2	3
SFF Otun Quimbaya	4.89	I3	14400	0	2

SFF Otun Quimbaya	4.89	I3	14400	0	1
SFF Otun Quimbaya	4.89	I3	14400	0	3
SFF Otun Quimbaya	4.89	I4	14000	2	1
SFF Otun Quimbaya	4.89	I4	14000	2	1
SFF Otun Quimbaya	4.89	I4	14000	11.1	3
SFF Otun Quimbaya	4.89	I4	14000	0	2
SFF Otun Quimbaya	4.89	I4	14000	9	1
SFF Otun Quimbaya	4.89	I4	14000	10.82	1
SFF Otun Quimbaya	4.89	I4	14000	0	4
SFF Otun Quimbaya	4.89	I4	14000	5.5	1
SFF Otun Quimbaya	4.89	I4	14000	23.1	1
SFF Otun Quimbaya	4.89	I5	14000	10	4
SFF Otun Quimbaya	4.89	I5	14000	7	3
SFF Otun Quimbaya	4.89	I5	14000	0	3
SFF Otun Quimbaya	4.89	I5	14000	10.68	1
SFF Otun Quimbaya	4.89	I5	14000	12.32	1
SFF Otun Quimbaya	4.89	I5	14000	11.45	1
SFF Otun Quimbaya	4.89	I5	14000	13.4	2
SFF Otun Quimbaya	4.89	I5	14000	11.6	1
SFF Otun Quimbaya	4.89	I5	14000	0	1
SFF Otun Quimbaya	4.89	I5	14000	8	1
SFF Otun Quimbaya	4.89	I5	14000	3.66	1
SFF Otun Quimbaya	4.89	I5	14000	3.09	1
SFF Otun Quimbaya	4.89	I5	14000	4	1
SFF Otun Quimbaya	4.89	I5	14000	5.96	1
SFF Otun Quimbaya	4.89	I5	14000	5.78	2
SFF Otun Quimbaya	4.89	I5	14000	4.17	1
SFF Otun Quimbaya	4.89	I5	14000	11.35	1

SFF Otun Quimbaya	4.89	I5	14000	15.6	1
SFF Otun Quimbaya	4.89	I5	14000	11.75	2
SFF Otun Quimbaya	4.89	I5	14000	13.1	1
SFF Otun Quimbaya	4.89	I6	14000	8	3
SFF Otun Quimbaya	4.89	I6	14000	19	4
SFF Otun Quimbaya	4.89	I6	14000	4	1
SFF Otun Quimbaya	4.89	I6	14000	5.92	1
SFF Otun Quimbaya	4.89	I6	14000	15	1
SFF Otun Quimbaya	4.89	I6	14000	12	3
SFF Otun Quimbaya	4.89	I6	14000	14	1
SFF Otun Quimbaya	4.89	I6	14000	10.14	1
SFF Otun Quimbaya	4.89	I6	14000	8.79	1
SFF Otun Quimbaya	4.89	I6	14000	0	1
SFF Otun Quimbaya	4.89	I6	14000	0	1
SFF Otun Quimbaya	4.89	I6	14000	7.1	1
SFF Otun Quimbaya	4.89	I6	14000	0	1
SFF Otun Quimbaya	4.89	I6	14000	0	1
SFF Otun Quimbaya	4.89	I7	13200	5.4	1
SFF Otun Quimbaya	4.89	I7	13200	19.5	2
SFF Otun Quimbaya	4.89	I7	13200	11.5	1

Morisita

Data to Morisita index in Vegan R

<i>Alouatta seniculus</i>	<i>Penelope perspicax</i>
0	9
6	34
0	17
3	11
6	46
0	40
19	31
0	0
0	3
6	19
12	8
3	31
8	17
3	29
3	29
0	4
0	12
10	58
6	44
3	13
15	21
6	24
3	17

3	16
17	11
9	23
14	40
0	26
24	12