Estrus

Column headers (individual IDs): ST, TU, BB, YB, AJ, MS, LK, KK, PG, ES, PB, TJ, BL, BU, BO, MU, MX, MN, OU, OT, OG, OM, TG, TT, TS, UM, UN, AL, AT, AZ, LR, LO, WA, WE, WL, WC, QT, QV, RD, ML, NP, EU, ... | GRID | MNK | SP | PT

Time	GRID	MNK	SP	PT
5:45				
6:00				
6:15				
6:30				
6:45	M26	X	FNA	RF
7:00		X		
7:15		X		
7:30		X		
7:45		X		
8:00		X		
8:15		X		
8:30		X	↓	↓
8:45		X	FNA	RF
9:00		↓		
9:15	M26		—	—
9:30	M25		—	—
9:45	M25			
10:00				
10:15	M26		THV	THV
10:30	M27		THV	THV
10:45			THV	THV
11:00				
11:15			PHY	RF
11:30			PHY	RF
11:45				
12:00			—	—
12:15				
12:30				
12:45			CAF	YL
13:00				
13:15				
13:30				
13:45			CAF	YL
14:00			—	—
14:15			—	—
14:30				
14:45		↓		
15:00	M26		—	—
15:15	M27		THV	THV
15:30				
15:45			LOW	YL
16:00		↓	THV	THV
16:15	M27		THV	THV
16:30				
16:45	M26	Blu	FNA	RF
17:00		"	↓	↓
17:15		"		
17:30		"	FNA	RF
17:45		"		
18:00		"	—	—
18:15		"	—	—
18:30	M26	"	—	—
18:45		"	—	—
19:00				
19:15				
19:30				
19:45				
20:00				
20:15				
20:30				

Health

COMMENTS ES was darted but did not fall asleep. From 645–900 Blu MGB and RDT monkeys were alongside.

FOUND: C=calls, FT=checking fruit trees, FFT: waiting at fruit tree, N=nest PARTY COMPOSITION: X: present at that time; O = thought to be around

OTHERS: Write IDs in blank columns: HH, PE, UM-UH-UN, GD-GS-GG, MU-MX, AFF, AMM, JFF, JMM, IMM, IFF

PT: RF = ripe fruit, UF = unripe fruit, SD = seed, YL = young leaf, ML = mature leaf, FL = flower, WD = wood, RT = root, SL = soil, MT = meat

MNK: RDC= Red colobus, BWC= Black and white colobus, RDT= Red-tail monkey, BLU= Blue Monkey, MGB= Mangabey, BAB= Baboon

HEALTH: 1 = Healthy, 2 = Cold/cough, 3 = Diarrhoea, 4 = Wound (describe). ESTRUS: 1 = None, 2 = Partial, 3 = Full

Time	Party Composition				Loc	F	SP	PT	MNK	BEH CODE
	AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF						
637	Obs found chimps feeding on FNA at									
	c/23.									
645	KK ES PB 4B	OU OT WL QT TG	OG WC QV TT AT	OM QL EU TS INF	C 23	✓	FNA	RF	MGB BLU ROT	
654	some one was chased in the feeding screaming									
	others made waars.									
700	KK ES PB 4B	OU OT WL QT TG	OG WC QV TT AT	OM QL EU TS INF	C 23	✓	FNA	RF		
703	some one was chased in a poor view and									
	fled screaming. others did not respond.									
715	KK ES PB 4B	OU OT WL QT TG	OG WC QV TT AT	OM QL EU TS INF	C 23	✓	FNA	RF	MGB BLU ROT	
730	KK ES PB 4B	OU OT WL QT TG	OG WC QV TT AT	OM QL EU TS INF	"	✓	FNA	RF	"	
745	KK ES PB 4B	OU OT WL QT TG	OG WC QV TT AT	OM QL EU TS INF	"	✓	FNA	RF	"	
747	BL NP BU and BO joined the party pant									
	barking, the party made pant hoots									
800	KK ES PB 4B	OU OT WL QT TG BL BU	OG WC QV TT AT BO	OM QL EU TS INF NP	C 23	✓	FNA	RF	"	
815	KK ES PB 4B	OU OT WL QT TG BL BU	OG WC QV TT PT BO	OM QL EU TS INF NP	"	✓	FNA	RF	"	
822	Distant calls were heard from the north									
	east of the location (c/23) this party made									
	pant hoots. ES made vocal displays.									
828	KK OU (OT) OG BU PB BL BO NP coming down									
	from the feeding tree									

AT 15-MINUTE INTERVALS: Party Composition, Location, Food, MNK   ESTROUS: 1 = None, 2 = Partial, 3 = Full

BEHAVIOR CODES (List all that you see - See reference sheet for required data):

AP: Adult Play; **CP**: Copulation; **CY**: Carry; **DR**: Drink; **FBK**: Food bark; **HCG**: Hand-clasp groom; **HNY**: Honey;

IGI: Intergroup interaction; **LF**: Leaf use; **MAT**: Attacked by monkeys; **PIG**: Pigs; **PRED**: Predation; **PTG**: Pant-grunt;

RN: Rain; **RD**: Rain display; **STK**: Stick use; **TLU**: Tool use; **UNF**: Unusual food; **Q**: Other unusual events

KPC Behavior

DAY 23rd MONTH JUNE YEAR 2009 OBSERVER KJ SJ SM MK Found: C (FT) FFT N Other_____

Time	Party Composition				Loc	F	SP	PT	MNK	BEH CODE
	AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF						
830	KK PB TJ JJB	BL OJ BU OT TG	OG WC QV TT BO	SM OL EU TS INFNP	C 23	✓	FNP	RF	MGB BLU RDT	
834	BL approached PB pant grunting and presented to him, he inspected her by smelling on the estrous and groomed him.									
840	KK on BL families and PB NP moved away and are out of the party.									
845	JB TJ	OT WL TG	WC QV ATTT	TS INF EU	C 23	✓	FNP	RF	MGB BLU RDT	
850	All chimps left the feeding tree on JB stayed in feeding.									
854	LR (1Q) joined the party pant barking, the party did not respond.									
900	JB TJ ES	OT WL TG	WC QV ATTT	TS INF EU	C 23				MG BLU RDT	
906	TJ grooming ES									
907	ES was darted as he was grooming TJ then he screamed and started moving into a dense vegetation. OBS followed him.									
915	ES TJ JB	OT WL TG	WC QV ATTT	TS INF EU	B 27				∅	
920	ES went missing with EU two, SD, OBS separated into small groups. KJ MK AS Followed TG family									

AT 15-MINUTE INTERVALS: Party Composition, Location, Food, MNK   ESTROUS: 1 = None, 2 = Partial, 3 = Full

BEHAVIOR CODES (List all that you see - See reference sheet for required data):

AP: Adult Play; **CP:** Copulation; **CY:** Carry; **DR:** Drink; **FBK:** Food bark; **HCG:** Hand-clasp groom; **HNY:** Honey; **IGI:** Intergroup interaction; **LF:** Leaf use; **MAT:** Attacked by monkeys; **PIG:** Pigs; **PRED:** Predation; **PTG:** Pant-grunt; **RN:** Rain; **RD:** Rain display; **STK:** Stick use; **TLU:** Tool use; **UNF:** Unusual food; **Q:** Other unusual events

KPC Behavior

DAY **23rd** MONTH **JUNE** YEAR **2009** OBSERVER **KJMKAS** Found: C (FT) FFT N Other_____

Time	Party Composition				Loc	F	SP	PT	MNK	BEH CODE
	AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF						
930	TJ	TG	TT	TS INF	U/27				Ø	
943	TJ playing with TS by touching.									
944	chimps feeding on THV.									
945	TJ	TG	TT	TS INF	U/27	✓	THV	THV	Ø	
952	We left TG family and went to look for ES.									
?										
1009	Obs found ES and EU feeding in THV at B/27.									
1015	ES			EU	B/27	✓	THV	THV	Ø	
1030	ES			EU	"	✓	THV	THV	Ø	
1045	ES			EU	"	✓	THV	THV	Ø	
1102	ES EU coming out of THV									
1107	ES EU joined KK YB and WL AL QT families at B/29.									
1111	ES EU went missing									
1115	KK YB	AL QT WL	AZ QV WCAT	NP AN	B/29	✓	PHV	RF	Ø	
1129	WL approached KK pant grunting and he ignored her.									PTG
1130	KK YB	AL QT WL	AT AZ WCQV	NP AN	B/29	✓	PHV	RF	Ø	

AT 15-MINUTE INTERVALS: Party Composition, Location, Food, MNK   ESTROUS: 1 = None, 2 = Partial, 3 = Full

BEHAVIOR CODES (List all that you see - See reference sheet for required data):

AP: Adult Play; **CP:** Copulation; **CY:** Carry; **DR:** Drink; **FBK:** Food bark; **HCG:** Hand-clasp groom; **HNY:** Honey; **IGI:** Intergroup interaction; **LF:** Leaf use; **MAT:** Attacked by monkeys; **PIG:** Pigs; **PRED:** Predation; **PTG:** Pant-grunt; **RN:** Rain; **RD:** Rain display; **STK:** Stick use; **TLU:** Tool use; **UNF:** Unusual food; **Q:** Other unusual events

KPC Behavior

DAY 23rd MONTH JUNE YEAR 2009 OBSERVER KT   Found: C (FT) FFT N Other_____

Time	Party Composition AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH CODE
1145	KK YB	WL QT AL	ATAZ WC QV	AN NP	B/29				Ø	
1151	WL grooming WC.									
1200	KK YB	WL QT AL	ATAZ WC QV	NP AN	B/29				Ø	
1208	WL approached KK pant grunting; and groomed him.									
1209	KK grooming YB									
1211	chain groom KK→ YB → WC									
1212	YB grooming WL									
1214	WL grooming YB.									
1215	KK YB	WL QT AL	ATAZ WC QV	NP AN	B/29				Ø	
1219	YB grooming KK.									
1230	KK YB	AL QT WL	WC QV ATAZ	NP AN	B/29				Ø	
1232	WL playing with WC by touching									AP
1236	WL grooming YB.									
1240	YB and WL climbed into CAF.									
1242	AL QT families with NP went missing.									
1245	YB KK	WL	WC		B/29	CAF YL			Ø	
1257	LK(L) joined the party and she made pant grunts to KK then groomed him.									

AT 15-MINUTE INTERVALS: Party Composition, Location, Food, MNK   ESTROUS: 1 = None, 2 = Partial, 3 = Full
BEHAVIOR CODES (List all that you see - See reference sheet for required data):

AP: Adult Play; **CP**: Copulation; **CY**: Carry; **DR**: Drink; **FBK**: Food bark; **HCG**: Hand-clasp groom; **HNY**: Honey; **IGI**: Intergroup interaction; **LF**: Leaf use; **MAT**: Attacked by monkeys; **PIG**: Pigs; **PRED**: Predation; **PTG**: Pant-grunt; **RN**: Rain; **RD**: Rain display; **STK**: Stick use; **TLU**: Tool use; **UNF**: Unusual food; **Q**: Other unusual events

KPC Behavior

DAY **23rd** MONTH **JUNE** YEAR **2009** OBSERVER **KT**   Found: C (FT) FFT N Other _____

Time	Party Composition				Loc	F	SP	PT	MNK	BEH CODE
	AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF						
1300	KK YB	WL LR	WC LO		B/29	✓	CAF	YL	∅	
1315	KK YB	WL LR	WC LO		,,	✓	CAF	YL	∅	
1330	KK YB	WL LR	WC LO		,,	✓	CAF	YL	∅	
1338 Lo playing alone by swinging.										
1345	KK YB	WL LR	WC LO		B/29	✓	CAF	YL	∅	
1400	KK YB	WL LR	WC LO		,,				∅	
1415	KK YB	LR WL	WC LO		,,				∅	
1430	KK YB	LR WL	WC LO		,,				∅	
1437 LR approached YB pant grunting and										PTG
groomed him.										
1445	KK YB	LR WL	WC LO		B/29				∅	
1500	KK YB	LR WL	WC LO		,,				∅	
1506 YB grooming KK.										
1512 chimps started feeding on THV.										
1515	YB KK	LR WL	WC LO		C/29	✓	THV	THV	∅	
1520 WL and LR families went missing.										
1530	YB KK				FXT/29				∅	
1531 YB eating PTG YL.										
1538 YB grooming KK.										

AT 15-MINUTE INTERVALS: Party Composition, Location, Food, MNK   ESTROUS: 1 = None, 2 = Partial, 3 = Full

BEHAVIOR CODES (List all that you see - See reference sheet for required data):

AP: Adult Play; **CP**: Copulation; **CY**: Carry; **DR**: Drink; **FBK**: Food bark; **HCG**: Hand-clasp groom; **HNY**: Honey; **IGI**: Intergroup interaction; **LF**: Leaf use; **MAT**: Attacked by monkeys; **PIG**: Pigs; **PRED**: Predation; **PTG**: Pant-grunt; **RN**: Rain; **RD**: Rain display; **STK**: Stick use; **TLU**: Tool use; **UNF**: Unusual food; **Q**: Other unusual events

KPC Behavior

DAY 23rd MONTH JUNE YEAR 2009 OBSERVER KJ Found: C (FT) FFT N Other _____

| Time | Party Composition | | | | Loc | F | SP | PT | MNK | BEH CODE |
	AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF						
1545	XX 4B				S/JG	✓	LOW	4L	Ø	
1600	XX 4B				"	✓	THV	THV	Ø	
1612	It started drizzling, chimps continued on feeding.									
1615	XX 4B				S/JG	✓	THV	THV	Ø	
1625	Chimps went missing in THV.									
1643	Found chimps at c/23 feeding on FNA, the individuals are WL and LR Families									
1645		LR WL	LO WC		C/23	✓	FNA	RF	BLU	
1700		LR WL	LO WC		"	✓	FNA	RF	BLU	
1702	LR (LO) coming out of the feeding tree.									
1715		LR WL	LO WC		C/23	✓	FNA	RF	BLU	
1730		LR WL	LO WC		"	✓	FNA	RF	BLU	
1744	LR coming out of the feeding tree.									
1745		LR WL	LO WC		C/23				BLU	
"	LR broke a branch and entered into an old nest in auiva of about 32 cm dbh at									

AT 15-MINUTE INTERVALS: Party Composition, Location, Food, MNK   ESTROUS: 1 = None, 2 = Partial, 3 = Full
BEHAVIOR CODES (List all that you see - See reference sheet for required data):

AP: Adult Play; CP: Copulation; CY: Carry; DR: Drink; FBK: Food bark; HCG: Hand-clasp groom; HNY: Honey;
IGI: Intergroup interaction; LF: Leaf use; MAT: Attacked by monkeys; PIG: Pigs; PRED: Predation; PTG: Pant-grunt;
RN: Rain; RD: Rain display; STK: Stick use; TLU: Tool use; UNF: Unusual food; Q: Other unusual events

13 metres high and improved it.

KPC Behavior

DAY 23   MONTH JUNE   YEAR 2009   OBSERVER KJ Fm mk   Found: C (FT) FFT N Other_____

| Time | Party Composition | | | | Loc | F | SP | PT | MNK | BEH CODE |
	AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF						
1800		LRWL	Lowe		C 23				Blu	
1815		LRWL	Lowe		''				''	
1830		LRWL			''				''	
1845		LRWL	Lowe		''				''	
1847	obs left the nesting site.									

AT 15-MINUTE INTERVALS: Party Composition, Location, Food, MNK   ESTROUS: 1 = None, 2 = Partial, 3 = Full
BEHAVIOR CODES (List all that you see - See reference sheet for required data):

AP: Adult Play; **CP**: Copulation; **CY**: Carry; **DR**: Drink; **FBK**: Food bark; **HCG**: Hand-clasp groom; **HNY**: Honey;
IGI: Intergroup interaction; **LF**: Leaf use; **MAT**: Attacked by monkeys; **PIG**: Pigs; **PRED**: Predation; **PTG**: Pant-grunt;
RN: Rain; **RD**: Rain display; **STK**: Stick use; **TLU**: Tool use; **UNF**: Unusual food; **Q**: Other unusual events