DAY 19th MONTH 08 YEAR '09 OBS-PC Fm TMF/40 AG TW ic SM SJ HOW FOUND N

	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	OL	TA	GRID	MNK	SP	PT
Estrus													1	3					1	2			1				1			1			2	1															
5:45																																																	
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8:00			X		X																																								N/27		—	—
8:15																																																	
8:30																																																	
8:45																																																	
9:00																																																	
9:15												X							X	X	X		X	X											X	X						X	X	0/25		COm	RF
9:30					X			X				X							X	X	X		X	X											X	X						X	X					
9:45					X			X				X	X	X					X	X	X		X	X						X					X	X						X	X					
10:00					X			X				X	X	X					X	X	X		X	X						X					X	X						X	X					
10:15					X			X				X	X	X					X	X	X		X	X						X					X	X						X	X					
10:30					X			X				X	X	X					X	X	X		X	X						X					X	X						X	X					
10:45					X			X				X	X	X					X	X	X		X	X						X					X	X						X	X					
11:00			X		X			X				X	X	X					X	X	X		X	X						X					X	X						X	X			COm	RF
11:15			X		X			X				X	X	X					X	X	X		X	X						X					X	X						X	X			—	—
11:30			X		X			X				X	X	X					X	X	X		X	X						X					X	X						X	X			—	—
11:45			X		X			X				X	X	X					X	X	X		X	X						X					X	X						X	X			—	—
12:00			X		X			X				X	X	X					X	X	X		X	X						X					X	X						X	X			—	—
12:15			X		X			X				X	X	X					X	X	X		X	X						X					X	X						X	X			COm	RF
12:30			X		X			X				X	X	X					X	X	X		X	X						X					X	X						X	X			—	—
12:45			X		X			X				X	X	X					X	X	X		X	X						X					X	X						X	X	0/25		—	—
	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	OL	TA				
13:00			X		X			X				X	X	X					X	X	X		X	X						X					X	X						X	X	0/25		—	—
13:15			X		X			X				X	X	X					X	X	X		X	X						X					X	X						X	X			—	—
13:30			X		X			X				X	X	X					X	X	X		X	X						X					X	X						X	X			—	—
13:45			X		X			X				X	X	X					X	X	X		X	X						X					X	X						X	X			FEX	UF
14:00			X		X			X				X	X	X					X	X	X		X	X						X					X	X						X	X			"	"
14:15			X		X			X				X	X	X					X	X	X		X	X						X					X	X						X	X			FEX	UF
14:30			X		X			X				X	X	X					X	X	X		X	X						X					X	X						X	X			—	—
14:45			X		X			X				X	X	X					X	X	X		X	X				X	X	X					X	X						X	X			—	—
15:00			X		X			X				X	X	X					X	X	X		X	X				X	X	X					X	X						X	X			—	—
15:15			X		X			X				X	X	X					X	X	X		X	X				X	X	X					X	X						X	X			PHY	RF
15:30			X		X			X				X	X	X					X	X	X		X	X				X	X	X					X	X						X	X	0/25		"	"
15:45			X		X			X				X	X	X					X	X	X		X	X				X	X	X					X	X						X	X	M/25		—	—
16:00			X		X			X				X	X	X					X	X	X		X	X				X	X	X					X	X						X	X	M/24		FBA	RF
16:15			X		X			X				X	X	X					X	X	X		X	X				X	X	X					X	X						X	X				
16:30			X		X			X				X	X	X					X	X	X		X	X				X	X	X					X	X						X	X				
16:45			X		X			X				X	X	X					X	X	X		X	X				X	X	X					X	X						X	X		RDC		
17:00			X		X			X				X	X	X					X	X	X		X	X				X	X	X					X	X						X	X		"	FBA	RF
17:15			X		X			X				X	X	X					X	X	X		X	X				X	X	X					X	X						X	X			—	—
17:30			X		X			X				X	X	X					X	X	X		X	X				X	X	X					X	X						X	X			CAF	YL
17:45			X		X			X				X	X	X					X	X	X		X	X				X	X	X					X	X						X	X			"	"
18:00			X		X			X				X	X	X					X	X	X		X	X				X	X	X					X	X						X	X			"	"
18:15			X		X			X				X	X	X					X	X	X		X	X				X	X	X					X	X						X	X			CAF	YL
18:30			X		X			X				X	X	X					X	X	X		X	X				X	X	X					X	X						X	X			THV	THV
18:45			X		X			X				X	X	X					X	X	X		X	X				X	X	X					X	X						X	X			"	"
19:00			X		X			X				X	X	X					X	X	X		X	X				X	X	X					X	X						X	X			THV	THV
19:15			X		X			X				X	X	X					X	X	X		X	X				X	X	X					X	X						X	X			—	—
19:30			X		X			X				X	X	X					X	X	X		X	X				X	X	X					X	X						X	X	M/24		—	—
19:45																																																
20:00																																																
20:15																																																
20:30																																																
	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	OL	TA	GRID	MNK	SP	PT
Health			1		4			1				1	1	1					1	1	1		1	1				1	1	1					1	1			2			1		1	1				

COMMENTS AJ had a wound and DW was heard sneezing.

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

OU① QT① TS① WL② OT②

KPC Behavior

DAY 19th MONTH 08 YEAR 2009 KPC Fm OTHERS AG TWIC FOUND N

Time	Party Composition AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH
757	J started collecting behavior data after									
	Chimps separated.									
800	WKYB				10/KED					
806	Chimps moved fast and got lost.									
910	OU TS WL and QT families found us waiting									
	at the feeding tree (com) and TJ made									
	non vocal displays chasing WL QT who fled									
	screaming and others pantbarked.									
911	Chimps climbed into the tree making food barks									FBK
915	TJ	OU OT WL QT TS	OV OS WC TT	OMOL TDTS	M/6	✓	Com	RF		
929	KK AJ joined the party and KK made vocal									
	displays and the others responded with									
	pantbarks and others responded from a distance.									
930	KK AJ TJ	OU OT QT TS WL	OS TT OV WC	OMOL TDTS	M/6	✓	Com	RF		
932	KK AJ climbed into the feeding tree									FBK
	making food barks.									
936	LR BL families with MP joined the party									

Aggression/Received Aggression (Use additional sheets and describe on back if necessary)

Time	ID	VD	NvD	Chase	Attack 1	2	3	Victim ID	Response of Victim No	Av	Submission	Tn	Rt	RA	Behavioral Context	Height T or G
		Duration														
910	TJ		38 secs	7 secs				WL QT		F	✓				Social excitement	S

Copulation

Time	Duration	Fem	Male	Interfere?	Groom?	Scream?	Dart	Who approached?	Notes

At 15-MINUTE INTERVALS: Party composition, Location, Food, MNK Estrous: 1=None, 2=Partial, 3=Full

AP: Adult play; **CP:** Copulation; **CY:** Carry; **DR:** Drink; **ELE:** Elephants; **FBK:** Food Bark; **HCG:** Hand-clasp groom; **HNY:** Honey
IGI: Intergroup interaction; **LF:** Leaf use; **MAT:** Monkeys attack; **PIG:** Pigs; **Pred:** Predation; **PTG:** Pant-grunt; **RN:** Rain
RD: Rain display; **SOIL:** Eating red soil; **STK:** Stick use; **TLU:** Tool use; **UNF:** Unusual food; **Q:** Other unusual events
PAT: Patrol (Non-conflict hair erection? Sniff? Bipedal? Scan? Reassurance touch? Close single file?)

Lz ① Bh ① Bu ③

KPC Behavior

DAY 19th MONTH 08 YEAR 2009 KPC Fm OTHERS TW KAG FOUND M

Time	AMM	AFF (Include estrous)	JMM	JFF	Loc	F	SP	PT	MNK	BEH
	and made pant barks.									
938	silent cop. and no dart, 4secs, F→M approach.									CP TT→BU
945	KK AJ TJ	OU OT WL LR QT TS BL BU	TT OG BO LO WE ON	OM OL TD TS NP	M/16	✓	Com	RF		
1000	KK AJ TJ	OU OT WL LR QT TS BL BU	TT OG BO LO WE ON	NP OM OL TD TS	"	✓	"	"		
1013	Some IDs made day nests in poor view.									
1015	KK AJ TJ	OU OT WL LR QT TS BL BU	TT OG BO LO WE ON	OM OL TD TS NP	M/16	✓	Com	RF		
1030	KK AJ TJ	OU OT WL LR QT TS BL BU	TT OG BO LO ON WE	OM OL TD TS NP	"	✓	"	"		
1042	OT building a day nest, 15m high, DBH ? sp. UVA.									
1043	TS building a day nest, 11m high DBH ? sp. Diospyros									
1045	KK AJ TJ	OU OT WL LR QT TS BL BU	TT OG BO LO ON WE	OM OL TD TS NP	M/16	✓	Com	RF		
1050	BB joined the party and no calls were made.									
1051	KK AJ BL leaving the feeding tree.									
1055	KK made vocal displays and ground slaps,									
	and BB silently ran into the tree.									
1056	AJ approached KK who mounted him and									
	both made soft screams then KK groomed AJ.									
1058	Hand clasp mutual groom									HCG KK⇌AJ
1100	AJ TJ BB KK	OU OT WL LR QT TS BL BU	TT OG BO LO ON WE	OM OL TD TS NP	M/16	✓	Com	RF		

Aggression/Received Aggression (Use additional sheets and describe on back if necessary)

Time	ID	VD	NvD	Chase	Attack 1	Attack 2	Attack 3	Victim ID	Response of Victim: No	Av	Submission	Tn	Rt	RA	Behavioral Context	Height T or G
		Duration														

Copulation

Time	Duration	Fem	Male	Interfere?	Groom?	Scream?	Dart	Who approached?	Notes
938	4secs	BU	TT	No	No	No	No	BU	

At 15-MINUTE INTERVALS: Party composition, Location, Food, MNK   Estrous: 1=None, 2=Partial, 3=Full

AP: Adult play; **CP:** Copulation; **CY:** Carry; **DR:** Drink; **ELE:** Elephants; **FBK:** Food Bark; **HCG:** Hand-clasp groom; **HNY:** Honey
IGI: Intergroup interaction; **LF:** Leaf use; **MAT:** Monkeys attack; **PIG:** Pigs; **Pred:** Predation; **PTG:** Pant-grunt; **RN:** Rain
RD: Rain display; **SOIL:** Eating red soil; **STK:** Stick use; **TLU:** Tool use; **UNF:** Unusual food; **Q:** Other unusual events
PAT: Patrol (Non-conflict hair erection? Sniff? Bipedal? Scan? Reassurance touch? Close single file?)

KPC Behavior

DAY 19th MONTH 08 YEAR 2009 KPC Fm OTHERS TWIC FOUND N

Time	Party Composition AMM	AFF (Include estrous)	JMM / JFF (Juveniles and Infants)	Loc	F	SP	PT	MNK	BEH
1100	KK grooming AJ and OL grooming Og.								
1101	LR building a day nest, 6m high;								
	DBH 26 cm (E) sp. Teclea.								
1102	BO building a day nest, 8 m high, DBH 11cm (E) sp. UVA								
1105	OL approached BO panting to BB who								PTG
	mounted her, then KK made non vocal								
	displays and BB fled silently while OL fled								
	pant barking.								
1107	Silent COP. and no dart, 3secs, F→m approach.								CP Og→BL
1108	BO leaving the day nest.								
1108	OL was heard sneezing.								
1110	LR (ID) leaving the day nest.								
1110	BB made non vocal displays to BL who								
	fled pant barking. Then KK made non vocal								
	displays and attack one to BL by kicking and								
	she screamed but didn't avoid and the								
	others made war barks.								
1113	AJ made non vocal displays chasing BL who								

Aggression/Received Aggression (Use additional sheets and describe on back if necessary)

Time	ID	VD Duration	NvD Duration	Chase	Attack 1	2	3	Victim ID	Response of Victim No	Av	Submission	Tn	Rt	RA	Behavioral Context	Height T or G
1110	BB		7secs					BL		F	✓				Unknown	G
1110	KK		10secs		✓			BL		NO					Unknown	G
1113	AJ		8secs 3secs					BL		F	✓				Unknown	G
1113	KK		12secs 2secs					AJ		F	✓				protection	G

Copulation

Time	Duration	Fem	Male	Interfere?	Groom?	Scream?	Dart	Who approached?	Notes
1107	3Secs	BL	Og	NO	NO	NO	NO	BL	

At 15-MINUTE INTERVALS: Party composition, Location, Food, MNK Estrous: 1=None, 2=Partial, 3=Full

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IGI: Intergroup interaction; **LF:** Leaf use; **MAT:** Monkeys attack; **PIG:** Pigs; **Pred:** Predation; **PTG:** Pant-grunt; **RN:** Rain
RD: Rain display; **SOIL:** Eating red soil; **STK:** Stick use; **TLU:** Tool use; **UNF:** Unusual food; **Q:** Other unusual events
PAT: Patrol (Non-conflict hair erection? Sniff? Bipedal? Scan? Reassurance touch? Close single file?)

KPC Behavior

DAY 19th MONTH 08 YEAR 2009 KPC Fm OTHERS TW IC FOUND M

Time	Party Composition AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH
	fled screaming. Then KK made non vocal									
	displays chasing AJ who fled screaming also.									
1115	KK AJ TJ BB	OU OT BL BU QT TG WL LR	TT OG BO WC QV LG	NP OM OL TD TS	M/6					
1117	KK made non vocal displays and ground									
	slaps, and some ids fled screaming.									
1118	KK made non vocal displays and buttress									
	bungs and AJ silently ran into the tree.									
1120	AJ grooming KK.									
1130	KK AJ TJ BB	OU OT BL BU QT TG WL LR	TT OG BO WC LG QV	NP OM OL TD TS	M/6					
1135	TJ chased and made attack one to MP who									
	retaliated and chased him while screaming and									
	warbarking then QT LR also made warbarks.									
1137	AJ grooming KK.									
1140	KK grooming AJ.									
1143	AJ grooming KK.									
1145	KK AJ TJ BB	OU OT BL BU QT TG WL LR	TT OG BO LG WC QV	NP OM OL TD TS	M/6					
1146	TJ made non vocal displays chasing BL who									
	fled screaming.									

Aggression/Received Aggression (Use additional sheets and describe on back if necessary)

Time	ID	VD	NvD	Chase	Attack 1	Attack 2	Attack 3	Victim ID	Response of Victim No	Av	Submission	Tn	Rt	RA	Behavioral Context	Height T or G
		Duration														
1118	KK		15secs					AJ		F	NO				unknown	g
1135	TJ			43secs	✓			MP	NO		✓		✓		unknown	T/g
1146	TJ		4secs	2secs				BL		F	✓				unknown	T

Copulation

Time	Duration	Fem	Male	Interfere?	Groom?	Scream?	Dart	Who approached?	Notes

At 15-MINUTE INTERVALS: Party composition, Location, Food, MNK Estrous: 1=None, 2=Partial, 3=Full

AP: Adult play; **CP:** Copulation; **CY:** Carry; **DR:** Drink; **ELE:** Elephants; **FBK:** Food Bark; **HCG:** Hand-clasp groom; **HNY:** Honey
IGI: Intergroup interaction; **LF:** Leaf use; **MAT:** Monkeys attack; **PIG:** Pigs; **Pred:** Predation; **PTG:** Pant-grunt; **RN:** Rain
RD: Rain display; SOIL: Eating red soil; **STK:** Stick use; **TLU:** Tool use; **UNF:** Unusual food; **Q:** Other unusual events
PAT: Patrol (Non-conflict hair erection? Sniff? Bipedal? Scan? Reassurance touch? Close single file?)

KPC Behavior

DAY 19th MONTH 08 YEAR 2009 KPC Fm OTHERS TWK FOUND N

Time	Party Composition: AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH
1154	Silent cop. and no dart, 6secs, F→M approach and									CP TJ→BU
	BU interfered by shaking branches and waa barking,									
	then KU NP TT also waa barked.									
1155	Hand clasp mutual groom									Hcg AJ⇆BU
1155	BL grooming BO.									
1157	KU grooming AJ.									
1159	AJ grooming KU.									
1200	KU AJ BB TJ	OU OT BL BU QT T9 WLR	TT 09 BO LO WCAN	MP OM OL TD TS	M/6					
1202	BB climbed back into com.									
1207	KU grooming AJ.									
1208	TJ climbed back into the feeding tree.									
1215	BB AJ KU TJ	OU OT BL BU QT T9 WLR	TT 09 BO LO WCAN	MP OM OL TD TS	M/6	✓	com	RF		
1219	TT made non vocal displays to TS who fled									
	screaming but no one responded.									
1222	TT made non vocal displays to TS again and									
	she casually avoided screaming and waa barking									
	then KU LR NP also made waa barks.									
1223	KU made non vocal displays and buttress									

Aggression/Received Aggression (Use additional sheets and describe on back if necessary)

Time	ID	VD Duration	NvD Duration	Chase	Attack 1	Attack 2	Attack 3	Victim ID	Response: No	Av	Submission	Tn	Rt	RA	Behavioral Context	Height T or G
1219	TT		13secs					TS		F	✓				unknown	T
1222	TT		10secs					TS		F	✓				unknown	T

Copulation

Time	Duration	Fem	Male	Interfere?	Groom?	Scream?	Dart	Who approached?	Notes
1154	6secs	BU	TJ	yes	No	No	No	BU	

At 15-MINUTE INTERVALS: Party composition, Location, Food, MNK   Estrous: 1=None, 2=Partial, 3=Full

AP: Adult play; **CP:** Copulation; **CY:** Carry; **DR:** Drink; **ELE:** Elephants; **FBK:** Food Bark; **HCG:** Hand-clasp groom; **HNY:** Honey
IGI: Intergroup interaction; **LF:** Leaf use; **MAT:** Monkeys attack; **PIG:** Pigs; **Pred:** Predation; **PTG:** Pant-grunt; **RN:** Rain
RD: Rain display; **SOIL:** Eating red soil; **STK:** Stick use; **TLU:** Tool use; **UNF:** Unusual food; **Q:** Other unusual events
PAT: Patrol (Non-conflict hair erection? Sniff? Bipedal? Scan? Reassurance touch? Close single file?)

KPC Behavior

DAY 19th MONTH 08 YEAR 2009 KPC Fm OTHERS TWK FOUND N

Time	Party Composition: AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH
	bungs, and others responded with waarbarks.									
1228	Silent cop. and no dart, 18 secs, F → M approach									CP TT → BH
1228	AJ made a ground nest.									
1230	BBAJ KKTJ	OUQT TGWL BLBU	BOOSLO WCSV QT	OMOL TDTS MP	M/6					
1233	LR QT families with MP moved away.									
1240	BB TJ climbed down the feeding tree.									
1240	AJ left the ground nest.									
1241	KK made non vocal displays and buttress bungs									
	but no one responded.									
1242	AJ grooming KK.									
1243	Hand clasp mutual groom									HCG AJ⇆KK
1244	KK grooming BB.									
1245	KK AJ BBTJ	BLBU OUQT TGWL	BOOS WCTI	OMOL TDTS	M/6					
1246	Hand clasp mutual groom									HCG BB⇆KK
1247	KK grooming BB.									
1251	TG WL and others in poor view pant barked to									
	AJ who made non vocal displays. BB KK also									
	made vocal displays and buttress bungs.									

Aggression/Received Aggression (Use additional sheets and describe on back if necessary)

Time	ID	VD Duration	NvD Duration	Chase	Attack 1	Attack 2	Attack 3	Victim ID	No	Av	Submission	Tn	Rt	RA	Behavioral Context	Height T or G
1244	KK		21 secs					None							Unknown	G

Copulation

Time	Duration	Fem	Male	Interfere?	Groom?	Scream?	Dart	Who approached?	Notes

At 15-MINUTE INTERVALS: Party composition, Location, Food, MNK Estrous: 1=None, 2=Partial, 3=Full

AP: Adult play; **CP:** Copulation; **CY:** Carry; **DR:** Drink; **ELE:** Elephants; **FBK:** Food Bark; **HCG:** Hand-clasp groom; **HNY:** Honey
IGI: Intergroup interaction; **LF:** Leaf use; **MAT:** Monkeys attack; **PIG:** Pigs; **Pred:** Predation; **PTG:** Pant-grunt; **RN:** Rain
RD: Rain display; **SOIL:** Eating red soil; **STK:** Stick use; **TLU:** Tool use; **UNF:** Unusual food; **Q:** Other unusual events
PAT: Patrol (Non-conflict hair erection? Sniff? Bipedal? Scan? Reassurance touch? Close single file?)

KPC Behavior

DAY 19th MONTH 08 YEAR 2009 KPC Fm OTHERS Ic FOUND M

Time	Party Composition AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH
1256	KK BB made non vocal displays when OU approached them pantbarking and OU fled still pant barking, and AJ also ran into the tree silently.									
1258	KK made non vocal displays and attack one to BU by kicking and she fled screaming. He also kicked BB who screamed and approached AJ who screamed and they made waarbarks chasing KK who ran in tree and ground silently. BL together with other females also made waarbarks.									
1300	BBAJ KK TJ	OUOT BLBU TGWL	BOTT OGWC	OMOL TOTS	I/6					
1301	KK made non vocal displays but no one responded.									
1301	WL grooming WC.									
1302	BB made non vocal displays and attack one to BL by kicking and she casually avoided screaming.									
1307	KK grooming BB.									

Aggression/Received Aggression (Use additional sheets and describe on back if necessary)

Time	ID	VD	NvD	Chase	Attack 1	2	3	Victim ID	Response of Victim No	Av	Submission	Tn	Rt	RA	Behavioral Context	Height T or G
		Duration														
1258	KK		28secs		✓			BU, BB		F	✓				Unknown	9
1301	KK		4secs					None							Unknown	9
1302	BB		6secs					BL		C	✓				Unknown	9

Copulation

Time	Duration	Fem	Male	Interfere?	Groom?	Scream?	Dart	Who approached?	Notes

At 15-MINUTE INTERVALS: Party composition, Location, Food, MNK Estrous: 1=None, 2=Partial, 3=Full

AP: Adult play; **CP:** Copulation; **CY:** Carry; **DR:** Drink; **ELE:** Elephants; **FBK:** Food Bark; **HCG:** Hand-clasp groom; **HNY:** Honey
IGI: Intergroup interaction; **LF:** Leaf use; **MAT:** Monkeys attack; **PIG:** Pigs; **Pred:** Predation; **PTG:** Pant-grunt; **RN:** Rain
RD: Rain display; **SOIL:** Eating red soil; **STK:** Stick use; **TLU:** Tool use; **UNF:** Unusual food; **Q:** Other unusual events
PAT: Patrol (Non-conflict hair erection? Sniff? Bipedal? Scan? Reassurance touch? Close single file?)

KPC Behavior

DAY 19th MONTH 08 YEAR 2009 KPC Fm OTHERS 1c FOUND N

Time	Party Composition AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH
1314	BB grooming KK.									
1315	BBAJ KK TJ	OUOT BLBU TJ WL	BOTT OJ WC	OMOL TDTS	J/6					
1320	Heard distant calls from East of K30 blue									
	and the party didn't respond.									
1323	KK made non vocal displays and buttress bungs									
	and someone pantbarked.									
1323	AJ inspected OU by touching on the Estrous.									
1325	OU grooming AJ.									
1326	AJ still has a wound on his left foot.									
1330	BBAJ KK TJ	OUOT BLBU TJ WL	BOTT OJ WC	OMOL TDTS	G/4					
1338	someone (Juvenile) attacked BO who fled screaming									
	but no one responded.									
1341	KK made vocal displays and buttress bungs,									
	and OU panthooted.									
1342	Some IDs climbed into FEX trees and									FBK
	made food barks.									
1343	AJ made vocal displays and buttress bungs,									
	and some IDs pantbarked.									

Aggression/Received Aggression (Use additional sheets and describe on back if necessary)

Time	ID	VD	NvD	Chase	Attack			Victim	Response of Victim						Behavioral Context	Height
		Duration			1	2	3	ID	No	Av	Submission	Tn	Rt	RA		T or G
1323	KK		7 Secs					None							Unknown	9
1341	KK	15 Secs						None							Unknown	9
1344	KK	10 Secs						None							Unknown	9

Copulation

Time	Duration	Fem	Male	Interfere?	Groom?	Scream?	Dart	Who approached?	Notes

At 15-MINUTE INTERVALS: Party composition, Location, Food, MNK Estrous: 1=None, 2=Partial, 3=Full

AP: Adult play; **CP:** Copulation; **CY:** Carry; **DR:** Drink; **ELE:** Elephants; **FBK:** Food Bark; **HCG:** Hand-clasp groom; **HNY:** Honey
IGI: Intergroup interaction; **LF:** Leaf use; **MAT:** Monkeys attack; **PIG:** Pigs; **Pred:** Predation; **PTG:** Pant-grunt; **RN:** Rain
RD: Rain display; **SOIL:** Eating red soil; **STK:** Stick use; **TLU:** Tool use; **UNF:** Unusual food; **Q:** Other unusual events
PAT: Patrol (Non-conflict hair erection? Sniff? Bipedal? Scan? Reassurance touch? Close single file?)

1344 KK made vocal displays and buttress bungs but no one responded.

KPC Behavior

DAY 19th MONTH 08 YEAR 2009 KPC Fm OTHERS 1c FOUND N

Time	Party Composition AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH
1345	BBAJ KKTJ	QUOT BLBU TGWL	BOTT OGWC	OMOL TDTS	H/3	✓	FEX	UF		
1346	BB made non vocal displays in the feeding tree and some IDs fled pantbarking.									
1347	WL approached BB pantbarking but he ignored.									
1348	PB joined the party and approached AJ pantgrunting but he ignored.									PTG
1350	silent cop. and dart, 5 secs, F→M approach.									CP PB→BU
1400	BBAJ KKTJ PB	QUOT BLBU TGWL	BOTT OGWC	OMOL TDTS	H/3	✓	FEX	UF		
1415	BBAJ KKTJ PB	QUOT BLBU TGWL	BOTT OGWC	OMOL TDTS	"	✓	"	"		
1416	silent cop. and no dart, 3 secs, F→M approach									CP PB→BU
1419	KK BB made non vocal displays but no one responded.									
1421	WL chased TT who fled screaming and waarbarked but no one responded.									
1421	PB approached KK pantbarking but he ignored.									
1424	WL grooming WC.									
1430	BBAJ KKTJ PB	QUOT BLBU TGWL	BOTT OGWC	OMOL TDTS	H/3					
1433	KK made non vocal displays and PB fled silently									

Aggression/Received Aggression (Use additional sheets and describe on back if necessary)

Time	ID	VD	NvD	Chase	Attack 1	Attack 2	Attack 3	Victim ID	Response of Victim No	Av	Submission	Tn	Rt	RA	Behavioral Context	Height T or G
		Duration														
1419	KK		29 secs					None							Unknown	9
1421	WL			3 secs				TT		F	✓				Unknown	9
1433	KK		17 secs					BB		F	None				Unknown	9

Copulation

Time	Duration	Fem	Male	Interfere?	Groom?	Scream?	Dart	Who approached?	Notes
1350	5 secs	BU	PB	No	No	No	yes	BU	
1416	3 secs	BU	PB	No	No	No	No	BU	

At 15-MINUTE INTERVALS: Party composition, Location, Food, MNK Estrous: 1=None, 2=Partial, 3=Full

AP: Adult play; **CP:** Copulation; **CY:** Carry; **DR:** Drink; **ELE:** Elephants; **FBK:** Food Bark; **HCG:** Hand-clasp groom; **HNY:** Honey
IGI: Intergroup interaction; **LF:** Leaf use; **MAT:** Monkeys attack; **PIG:** Pigs; **Pred:** Predation; **PTG:** Pant-grunt; **RN:** Rain
RD: Rain display; **SOIL:** Eating red soil; **STK:** Stick use; **TLU:** Tool use; **UNF:** Unusual food; **Q:** Other unusual events
PAT: Patrol (Non-conflict hair erection? Sniff? Bipedal? Scan? Reassurance touch? Close single file?)

KPC Behavior

DAY 19th MONTH 08 YEAR 2009 KPC Fm OTHERS SJ sm FOUND M

Time	Party Composition AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH
	while BO 09TT		fled screaming, then							
	PB also made non vocal displays and attack									
	one to AT who again fled screaming and PB									
	continued displaying (NVD) then made ground slaps.									
1512	TJ made non vocal displays chasing WL who									
	fled screaming.									
1513	BL approached PB screaming and he mounted her									
1515	KL AJ PB BB TJ	BL BU OU OT WL AL TG	BO AZ TT OG AT WC	AN OM OW TD TS	F/4	✓	PHM	RF		
1518	PB made non vocal displays chasing WL who									
	first fled screaming then retaliated chasing									
	him and he fled displaying (NVD) then									
	made ground slaps.									
1519	KL made vocal displays and buttress bungs									
	and others made waarbarks.									
1525	BB made vocal displays and buttressbungs,									
	and others waarbarked.									
1528	OU approached PB pantbarking and presented									
	then he inspected by smelling on the Estrous.									

Aggression/Received Aggression (Use additional sheets and describe on back if necessary)

Time	ID	VD	NvD	Chase	Attack 1	Attack 2	Attack 3	Victim ID	Response of Victim No	Av	Submission	Tn	Rt	RA	Behavioral Context	Height T or G
		Duration														
1512	TJ		5secs	2secs				WL		F	✓				Unknown	9
1518	PB		35secs	4secs				WL		F	✓		✓		Unknown	9
1519	KL	19secs						None							Unknown	9
1525	BB	6secs						None							Unknown	9

Copulation

Time	Duration	Fem	Male	Interfere?	Groom?	Scream?	Dart	Who approached?	Notes

At 15-MINUTE INTERVALS: Party composition, Location, Food, MNK Estrous: 1=None, 2=Partial, 3=Full

AP: Adult play; **CP:** Copulation; **CY:** Carry; **DR:** Drink; **ELE:** Elephants; **FBK:** Food Bark; **HCG:** Hand-clasp groom; **HNY:** Honey
IGI: Intergroup interaction; **LF:** Leaf use; **MAT:** Monkeys attack; **PIG:** Pigs; **Pred:** Predation; **PTG:** Pant-grunt; **RN:** Rain
RD: Rain display; SOIL: Eating red soil; **STK:** Stick use; **TLU:** Tool use; **UNF:** Unusual food; **Q:** Other unusual events
PAT: Patrol (Non-conflict hair erection? Sniff? Bipedal? Scan? Reassurance touch? Close single file?)

KPC Behavior

DAY 19th MONTH 08 YEAR 2009 KPC Fm OTHERS SJ Son FOUND M

Time	Party Composition AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH
1530	Ku AJ BB TJ PB	BL BU OUOT WL AL TS	BOAZ TTOSAT WC	OMOH TOTS AM	F/4	✓	PHy	RF		
1534	BL feeding on Trichilia young leaves.									
1539	~~Csp~~ with screams and dart, 4secs, F→M approach									CP PB→BU
1541	OU grooming OT and OJ grooming WL.									
1543	OJ grooming KU.									
1544	AJ grooming KU.									
1545	KU AJ PB BB TJ	BL BU OUOT WL AL TS	BOAZ TTOSAT WC	OMOH TOTS AM	S/KOA					
1545	PB made non vocal displays chasing WL who retaliated chasing him and he fled making non vocal displays as the others were barked.									
1548	Heard distant calls from North west and KU AJ made vocal displays and loud tress bangs and others made wears and pant barks.									
1557	The Chimps arrived at the FBR P/G and made food barks, then PB made vocal displays and ground slaps.									
1558	LR QT families with NP joined the party.									
1600	Silent CSP. and dart, 2secs, F→M approach									CP PB→BU

Aggression/Received Aggression (Use additional sheets and describe on back if necessary)

Time	ID	VD	NvD	Chase	Attack			Victim	Response of Victim						Behavioral Context	Height
		Duration			1	2	3	ID	No	Av	Submission	Tn	Rt	RA		T or G
1545	PB		20secs	35ecs				WL		NO	✓		✓		Unknown	G

Copulation

Time	Duration	Fem	Male	Interfere?	Groom?	Scream?	Dart	Who approached?	Notes
1539	4Secs	BU	PB	NO	NO	YES	YES	BU	
1600	2 Secs	BU	PB	NO	NO	NO	YES	BU	

At 15-MINUTE INTERVALS: Party composition, Location, Food, MNK Estrous: 1=None, 2=Partial, 3=Full

AP: Adult play; **CP:** Copulation; **CY:** Carry; **DR:** Drink; **ELE:** Elephants; **FBK:** Food Bark; **HCG:** Hand-clasp groom; **HNY:** Honey
IGI: Intergroup interaction; **LF:** Leaf use; **MAT:** Monkeys attack; **PIG:** Pigs; **Pred:** Predation; **PTG:** Pant-grunt; **RN:** Rain
RD: Rain display; **SOIL:** Eating red soil; **STK:** Stick use; **TLU:** Tool use; **UNF:** Unusual food; **Q:** Other unusual events
PAT: Patrol (Non-conflict hair erection? Sniff? Bipedal? Scan? Reassurance touch? Close single file?)

KPC Behavior

DAY 19th MONTH 08 YEAR 2009 KPC Fm OTHERS SmSJTW FOUND N

Time	Party Composition AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH
1600	KKAJ BBTJ PB	BLBU QUOT ALWL LR QTTG	BOAZ OGLOWC QVAT TT	OMOL TDTSAN NP	P/9	✓	FBR	RF		
1615	KKAJ BBTJ PB	BLBU QUOT WLLR QTTG AL	BOAZ TTOGLO ATWC QV	OMOL TDTSAN NP	"	✓	"	"		
1630	KKAJ BBTJ PB	BLBU QUOT WLLR QTTG AL	BOAZ TTOGLO ATWC QV	OMOL TDTSAN NP	"	✓	"	"		
1645	KKAJ BBPB TJ	BLBU QUOT WLLR QTTG AL	BOAZ TTOGLO ATWC QV	OMOL TDTSAN NP	"	✓	"	"	RDC	
1700	KKAJ PBBB TJ	BLBU QUOT WLLR QTTG AL	BOAZ TTOGLO ATWC QV	OMOL TDTSAN NP	P/9	✓	FBR	RF	"	
1701	An RDC moved into the feeding tree and some IDs started leaving.									
1702	3 Adult male RDC chased OT who fled screaming and everyone left the tree.									
1711	NP presented to NP who inspected her by smelling on the Estrous.									
1715	KKAJ BBPB TJ	BLBU QUOT WLLR QTTG AL	QV BOAZ TTOGLO ATWC	OMOL TDTSAN NP	P/13					
1721	KK panthooted and PB made non vocal displays and ground slaps as the others pantbarked.									
1723	PB made non vocal displays and ground slaps and LR TG fled screaming.									
1724	PB made non vocal displays and ground slaps									

Aggression/Received Aggression (Use additional sheets and describe on back if necessary)

Time	ID	VD	NvD	Chase	Attack 1	Attack 2	Attack 3	Victim ID	Response of Victim No	Av	Submission	Tn	Rt	RA	Behavioral Context	Height T or G
		Duration														
1721	PB		5secs					Non							Social excitement	9
1723	PB		3secs					TGLR		F	✓				Unknown	9
1724	PB		6secs					LRTGWLBL		NO	✓		✓		Unknown	9

Copulation

Time	Duration	Fem	Male	Interfere?	Groom?	Scream?	Dart	Who approached?	Notes

At 15-MINUTE INTERVALS: Party composition, Location, Food, MNK Estrous: 1=None, 2=Partial, 3=Full

AP: Adult play; **CP:** Copulation; **CY:** Carry; **DR:** Drink; **ELE:** Elephants; **FBK:** Food Bark; **HCG:** Hand-clasp groom; **HNY:** Honey
IGI: Intergroup interaction; **LF:** Leaf use; **MAT:** Monkeys attack; **PIG:** Pigs; **Pred:** Predation; **PTG:** Pant-grunt; **RN:** Rain
RD: Rain display; **SOIL:** Eating red soil; **STK:** Stick use; **TLU:** Tool use; **UNF:** Unusual food; **Q:** Other unusual events
PAT: Patrol (Non-conflict hair erection? Sniff? Bipedal? Scan? Reassurance touch? Close single file?)

KPC Behavior

DAY 19th MONTH 08 YEAR 2009 KPC Fm OTHERS SMTW FOUND N

Time	Party Composition AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH
	to LR WL T9 BL QT who chased him screaming									
	and waarbarking, and he ran making NVD.									
1725	TJ made non vocal displays and buttress									
	bungs, and BU ran into the tree pantbarking.									
1726	PB made non vocal displays and ground slaps,									
	Chasing BL WL who ran into trees pant barking.									
1727	TJ made non vocal displays chasing WL who									
	ran into the tree screaming.									
1730	KKAJ PBBB TJ	BLBU QUOT WLLR QTT9 AL	BOAZ TTOGLO ATWC QV	AN OMOL TDTS NP	13 /CR	✓	CAF	YL		
1745	KKAJ PB BB TJ	BLBU QUOT WLLR QTT9 AL	BOAZ TTOGLO ATWC QV	AN OMOL TDTS NP	"	✓	PHU CAF	RF YL		
1800	KKAJ PBBB TJ	BLBU QUOT WLLR QTT9 AL	BOAZ TTOGLO ATWC QV	AN OMOL TDTS NP	"	✓	THV CAF	THV YL		
1815	KKAJ PBBB TJ	BLBU QUOT WLLR QTT9 AL	BOAZ TTOGLO ATWC QV	AN OMOL TDTS NP	13 /CR	✓	"	"		
1815	Silent cop. and no dart, 4 secs, F → M approach									CP AT→BU
1820	KK made non vocal displays and BL casually									
	and silently avoided.									
1830	KKAJ PBBB TJ	BLBU QUOT WLLR QTT9 AL	BOAZ TTOGLO ATWC QV	AN OMOL TDTS NP	13 /CR	✓	THV	THV		
1832	PB approached and pantgrunted to someone									PT9
	in poor view.									

Aggression/Received Aggression (Use additional sheets and describe on back if necessary)

Time	ID	VD	NvD	Chase	Attack 1	2	3	Victim ID	Response of Victim No	Av	Submission	Tn	Rt	RA	Behavioral Context	Height T or G
		Duration														
1725	TJ		17secs					BU		F	✓				unknown	9
1726	PB		4secs	2secs				BLWL		F	✓				unknown	9
1727	TJ		8secs	3secs				WL		F	✓				unknown	9/T

Copulation

Time	Duration	Fem	Male	Interfere?	Groom?	Scream?	Dart	Who approached?	Notes

At 15-MINUTE INTERVALS: Party composition, Location, Food, MNK Estrous: 1=None, 2=Partial, 3=Full

AP: Adult play; **CP:** Copulation; **CY:** Carry; **DR:** Drink; **ELE:** Elephants; **FBK:** Food Bark; **HCG:** Hand-clasp groom; **HNY:** Honey
IGI: Intergroup interaction; **LF:** Leaf use; **MAT:** Monkeys attack; **PIG:** Pigs; **Pred:** Predation; **PTG:** Pant-grunt; **RN:** Rain
RD: Rain display; **SOIL:** Eating red soil; **STK:** Stick use; **TLU:** Tool use; **UNF:** Unusual food; **Q:** Other unusual events
PAT: Patrol (Non-conflict hair erection? Sniff? Bipedal? Scan? Reassurance touch? Close single file?)

AL ①

KPC Behavior

DAY 19th MONTH 08 YEAR 2009 KPC Fm OTHERS SMSJ FOUND N

Time	Party Composition AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH
	ran into the tree as the others pantbarked.									
1437	AL's family joined the party and AT pant									PTG
	grunted to BB. who ignored.									
1439	silent cop. and no dart, 3secs, F→M approach									cp AT→BU
1443	WL grooming PB.									
1444	Hand clasp mutual groom									Hcg WL→PB
1445	KK AJ PB BB TJ	BL BU OU OT WL AL TG	BO AZ TT OG AT WC	OM OL TD TS AN	H/3					
1450	KK grooming AJ.									
1454	AJ grooming KK.									
1457	KK made non vocal displays and attack one									
	to BL who screamed then mounted him.									
1458	KK inspected BL by touching and smelling									
	on the Estrous.									
1459	KK made non vocal displays and BB silently									
	ran into the tree.									
1500	KK AJ PB BB TJ	BL BU OU OT WL AL TG	AT BO AZ TT OG WC	AN OM OL TD TS	H/3					
1504	PB grooming OU. (OU first pant grunted)									PTG
1511	PB made attack one to AT who was playing									

Aggression/Received Aggression (Use additional sheets and describe on back if necessary)

Time	ID	VD	NvD	Chase	Attack 1	Attack 2	Attack 3	Victim ID	Response of Victim No	Av	Submission	Tn	Rt	RA	Behavioral Context	Height T or G
		Duration														
1457	KK		9 Secs		✓			BL		No	✓				Unknown	9
1459	KK		3 Secs					BB		F	None				Unknown	9
1511	PB		14 Secs		✓			AT		F	✓				Unknown	9
1511	BB		4 Secs		✓			AT		F	✓				Unknown	9

Copulation

Time	Duration	Fem	Male	Interfere?	Groom?	Scream?	Dart	Who approached?	Notes

At 15-MINUTE INTERVALS: Party composition, Location, Food, MNK Estrous: 1=None, 2=Partial, 3=Full

AP: Adult play; **CP:** Copulation; **CY:** Carry; **DR:** Drink; **ELE:** Elephants; **FBK:** Food Bark; **HCG:** Hand-clasp groom; **HNY:** Honey
IGI: Intergroup interaction; **LF:** Leaf use; **MAT:** Monkeys attack; **PIG:** Pigs; **Pred:** Predation; **PTG:** Pant-grunt; **RN:** Rain
RD: Rain display; **SOIL:** Eating red soil; **STK:** Stick use; **TLU:** Tool use; **UNF:** Unusual food; **Q:** Other unusual events
PAT: Patrol (Non-conflict hair erection? Sniff? Bipedal? Scan? Reassurance touch? Close single file?)

KPC Behavior

DAY 19th MONTH 08 YEAR 2009 KPC Fm OTHERS SmTW FOUND N

Time	Party Composition AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH
1845	BBAJ KKTJ PB	BLBU OUOT WLLR QTTG AL	BOAZ TTOGQN ATLO WC	AN OMOL TDTS MP	13/CR	✓	THV	THV		
1858	PB Inspected OT by smelling on the Estrous.									
1900	BBAJ PBKK TJ	BLBU OUOT WLLR QTTG AL	BOAZ TTOGQN ATLO WC	OMOL TDTS MP AN	13/CR	✓	THV	THV		
1904	Chimps moved out of THV.									
1908	KK made non vocal displays and some IDs									
	fled pantbarking.									
1908	WL moved into an old nest and improved it.									
1909	BL approached KK pant grunting but he ignored									PTG
1910	QT also moved into the nest and improved it.									
1911	KK made non vocal displays, and BB ran									
	into the tree silently.									
1913	OU building a night nest in Albizzia.									
1915	BBAJ PBKK TJ	BLBU OUOT WLLR QTTG AL	BOAZ TTOGLO ATWC QN	OMOL TDTS AN MP	Q/14					
1924	KK building a night nest.									
1926	AJ building a night nest.									
1930	BBAJ PBKK TJ	BLBU OUOT WLLR QTTG AL	BOAZ ATWCLO TTQN OG	OMOL TDTS AN MP	Q/14					
1932	Obs leaving the nest site.									

Aggression/Received Aggression (Use additional sheets and describe on back if necessary)

Time	ID	VD	NvD	Chase	Attack 1	Attack 2	Attack 3	Victim ID	Response of Victim No	Av	Submission	Tn	Rt	RA	Behavioral Context	Height T or G
		Duration														
1911	KK		3secs					BB			None				Unknown	9

Copulation

Time	Duration	Fem	Male	Interfere?	Groom?	Scream?	Dart	Who approached?	Notes

At 15-MINUTE INTERVALS: Party composition, Location, Food, MNK Estrous: 1=None, 2=Partial, 3=Full

AP: Adult play; **CP:** Copulation; **CY:** Carry; **DR:** Drink; **ELE:** Elephants; **FBK:** Food Bark; **HCG:** Hand-clasp groom; **HNY:** Honey
IGI: Intergroup interaction; **LF:** Leaf use; **MAT:** Monkeys attack; **PIG:** Pigs; **Pred:** Predation; **PTG:** Pant-grunt; **RN:** Rain
RD: Rain display; **SOIL:** Eating red soil; **STK:** Stick use; **TLU:** Tool use; **UNF:** Unusual food; **Q:** Other unusual events
PAT: Patrol (Non-conflict hair erection? Sniff? Bipedal? Scan? Reassurance touch? Close single file?)