DAY 24th MONTH July YEAR 2009 OBS-PC KJ TMF/40 – AS 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	GRID	MNK	SP	PT
Estrus																			1												1				1		1											
5:45																																															
6:00																																															
6:15																																															
6:30																																															
6:45																																															
7:00					X																									X	X					X					X	K 126		—	—
7:15					X																									X	X					X					X	L 126		FDA	RF
7:30					X																									X	X					X					X				
7:45					X																									X	X					X					X				
8:00					X														X	X	X	X									X	X					X					X				
8:15					X														X	X	X	X									X	X					X					X				
8:30					X														X	X	X	X									X	X					X					X				
8:45					X														X	X	X	X									X	X					X					X				
9:00					X														X	X	X	X									X	X					X					X		FDA	RF	
9:15					X														X	X	X	X									X	X					X					X		—	—	
9:30					X														X	X	X	X									X	X					X					X		—	—	
9:45					X														X	X	X	X									X	X					X					X		—	—	
10:00					X														X	X	X	X									X	X					X					X		—	—	
10:15					X														X	X	X	X									X	X					X					X		—	—	
10:30					X														X	X	X	X									X	X					X					X		—	—	
10:45					X														X	X	X	X									X	X					X					X		—	—	
11:00					X														X	X	X	X									X	X					X					X		—	—	
11:15					X														X	X	X	X									X	X					X					X		—	—	
11:30					X														X	X	X	X									X	X					X					X		FDA	RF	
11:45					X														X	X	X	X									X	X					X					X	MGB	FDA	RF	
12:00					X														X	X	X	X									X	X					X					X	"	FDA	RF	
12:15					X														X	X	X	X									X	X			X		X					X	"	THV	THV	
12:30					X														X	X	X	X									X	X			X		X					X	"			
12:45					X														X	X	X	X									X	X			X		X					X	L 126	"			
	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	GRID	MNK	SP	PT
13:00																			X	X	X	X									X	X			X		X					X	L 125			
13:15																			X	X	X	X									X	X			X		X					X		THV	THV	
13:30																			X	X	X	X									X	X			X		X					X		—	—	
13:45																			X	X	X	X									X	X			X		X					X				
14:00																			X	X	X										X	X					X					X	L 125		—	—
14:15																			X	X	X										X	X					X					X	L 124		—	—
14:30																			X	X	X										X	X					X					X	K 124		FDA	RF
14:45																			X	X	X										X	X					X					X			—	—
15:00																			X	X	X	X									X	X					X					X		RDC	PIH	RF
15:15																			X	X	X	X									X	X					X					X		"	PIH	RF
15:30																			X	X	X	X									X	X					X					X		"	—	—
15:45																			X	X	X	X									X	X					X					X	K 124	"	PEN	PITH
16:00					X														X	X	X	X									X	X					X					X	K 123		~~CAF~~	~~YL~~
16:15					X														X	X	X	X									X	X					X					X			CAF	YL
16:30					X																																									
16:45					X																																									
17:00					X																																								CAF	YL	
17:15					X																																								PEN	PITH	
17:30					X																																									
17:45					X																																									
18:00					X																																									
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18:30					X																																							RDT	PEN	PITH
18:45					X																																								CAF	YL	
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19:15																																															
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	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	GRID	MNK	SP	PT
Health																			2																												

COMMENTS oli has productive cough and Lo too.

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

KPC Behavior

DAY 24th MONTH July YEAR 2009 OBSERVER KJ AS GPS A Found: C FT FFT (N) Other OU, OT, LR, OT,

Time	Party Composition AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH CODE
647	Obs arrived at the nests and found chimps had just un nests but still at the same location resting on the ground.									
700	AJ	LR OT	LO OV	EU	29 Log				Ø	
702	OT approached AJ pant barking and presented before him. he inspected her by smelling on the estrous.									
708	AJ made non vocal displays OT. fled pant barking.									
712	chimps climbed into FOA silently and started feeding.									
715	AJ	OT LR	LO OV	EU	29 Log	V	FOA	RF	Ø	
730	AJ	OT LR	LO OT	EU	11		FOA	RF	Ø	
738	AJ moved towards OT who made pant barks and presented, AJ ignored her.									
745	AJ	LR OT	OV LO	EU	29 Log	V	FOA	RF	Ø	
747	OU family joined the party, OT EU made pant bark, OU family responded too.									

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 24th MONTH July YEAR 2009 OBSERVER KJ AS 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
759	LR chased OG and he fled screaming.									
	others did not respond									
800	AJ	OU OT OTHR	OG LO OV	OM OF EU	29 Log	✓	FOA	RF	Ø	
809	OU has productive cough.									
815	AJ	OU OT OTHR	OG LO OV	OM OF EU	29 Log	✓	FOA	RF	Ø	
819	OU approached AJ pant grunting and groomed him.									PTG
828	AJ and LR coming down from the feeding tree followed by EU and OT.									
830	AJ	OU OT OTHR	OG LO OV	OM OF EU	29 Log	✓	FOA	RF	Ø	
834	LO playing with OV by wrestling.									
838	EU self grooming.									
842	LR making a ground nest.									
845	AJ	OU OT OTHR	OG LO OV	OM OF EU	29 Log	✓	FOA	RF	Ø	
855	OU @ OM their OG coming down from the feeding tree, OT stayed in feeding									
856	EU grooming OU.									
857	EU grooming AJ.									
858	OU grooming OG.									

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 24th MONTH July YEAR 2009 OBSERVER KJAS 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						
859	Hand clasp mutual groom				OU		↔	OT		HCG
900	AJ	OU OT LRAT	OG LO OV	SMOL EU	29 Log	✓	FOR	RF	Ø	
"	OU grooming OG after hand clasp.									
904	OM self grooming.									
905	OU grooming OM.									
906	OM grooming OU.									
909	OM grooming OG.									
911	OT coming down from FOR.									
914	OU grooming OG.									
915	AJ	OU OT OT	OG LO OV	SMOL EU	29 Log				Ø	
917	OU grooming OT.									
918	OM playing with EU by swinging on climbers.									
921	chain grooming OM → OU → OT.									
922	Hand clasp mutual groom				OU		↔	OT		HCG
"	LO was heard coughing (dry).									
925	OG OM and EU playing together by swinging.									
926	OT grooming OU.									

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 24th MONTH July YEAR 2009 OBSERVER KT AS 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
929	OT grooming on.									
930	AJ	OV OT LR OT	OG LO OV	OM OT EU	29 Log				ϕ	
933	OM grooming OT									
934	OG made non vocal displays against OT who fled screaming towards LR and groomed her.									
937	Hand clasp mutual groom				LR⇔OT					HCG
938	LR grooming OT after hand clasp.									
940	OT grooming LR.									
945	AJ	OV OT LR OT	OG LO OV	OM OT EU	29 Log				ϕ	
949	OT grooming on.									
950	OG made non vocal displays against LR who retaliated by a slap OG made screams trying to retaliate with arm threats. LR chased him OG fled towards OV screaming then OV approached AJ was barking at LR, AJ made non vocal displays LR approached AJ and 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 24th MONTH July YEAR 2009 OBSERVER KJ AS 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
952	Hand clasp mutual groom				LR⇔AJ					HCG
954	AJ grooming LR after hand clasp.									
955	OT playing with OV by touching and									
	biting him softly.									
956	OG playing with om by swinging.									
958	Hand clasp mutual groom				AJ⇔LR					HCG
959	LR grooming AJ after hand clasp.									
1000	AJ	OU OT LR OT	OG LO OV	OM OL EU	29 Log				Ø	
1006	OT playing with om by wrestling.									
1010	OG was seen playing with a dead									
	animal looking like a mangoes									
1015	AJ	OU OT LR OT	OG LO OV	OM OL EU	29 Log				Ø	
1029	AJ grooming OU.									
1030	AJ	OU OT LR OT	OG LO OV	OM OL EU	29 Log				Ø	
1042	EU grooming AJ.									
1045	AJ	OU OT LR OT	OG LO OV	OM OL EU	29 Log				Ø	
1100	AJ	OU OT LR OT	OG OL OV	OM OL EU	11				Ø	
1115	AJ	OU OT LR OT	OG LO OV	OM OL EU	1				Ø	
112	OT also picked the same dead anima									
	OG was playing with and played with it too.									

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 24th MONTH July YEAR 2009 OBSERVER KJAS WL ① 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
1128	chimps climbed back into the									
	feeding tree. (FDA)									
1130	AJ	OU OT LR QT	OG LO QV	OM OL EU	29 Log	✓	FDA	RF	Ø	
1132	OT chased EU and she fled screaming									
	then waar barking others did not									
	respond.									
1139	QT (QV) coming down from the feeding tree.									
1145	AJ	OU OT LR QT	OG LO QV	OM OL EU	29 log	✓	FDA	RF	MGB	
1200	AJ	OU OT LR QT	OG LO QV	OM OL EU	"	✓	FDA	RF	MGB	
1201	chimps coming down from the									
	feeding tree.									
1203	WL (WC) joined the party, AJ approached									
	her and she presented to him while									
	pant barking, AJ inspected her by smelling									
	on the estrous.									
1213	chimps started feeding on THV making									
	food grunts.									
1214	chain groom OM → OU → OT.									
1215	AJ	OU OT WL QT LR	OG LO QV WC	OM OL EU	29 log	✓	THV	THV	MGB	

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 24th MONTH July YEAR 2009 OBSERVER KJ AS 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
1230	AJ	OU OT LRWL CT	OG WC CV LO	OM OL EU	29 log	✓	THV	THV	MGB	
1238	It started drizzling									RN
1245	AJ.	OU OT LRWL CT	OG WC CV LO	OM OL EU	29 log	✓	THV	THV	MGB	
1250	LR(LO) CT CV AJ and EU went missing.									
1300		OU OT WL	OG WC	OM OL	I 28	✓	THV	THV	∅	
1315		OU WL OT	OG WC	OM OL	"	✓	THV	THV	∅	
1330		OU OT WL	OG WC	OM OL	"	✓	THV	THV	∅	
1340	It stoped drizzling, WL WC went missing.									
1345		OU OT	OG	OM OL	I 28				∅	
1400		OU OT	OG	OM OL	M 27				∅	
1401	OG made non vocal displays and buttress bangs others did not respond.									
1402	OG made non vocal displays and buttress bangs on made hoos.									
1415		OU OT	OG	OM OL	CRD 27				∅	
1424	chimps climbed into FOA at F1 1100, no any calls made.									
1430		OU OT	OG	OM OL	F 1100	✓	FOA	RF	∅	
1443	chimps coming down from the feeding tree being led by ou.									

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 24 MONTH July 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
1441	OT eating myk 4k.									
1445		OU OT	OG	OM OL	F 1100				Ø	
1451	OU grooming OG.									
1457	OU OD OM OG and OT climbed into PHY									
	and started feeding as they made food grunts.									
1502		OU OT	OG	OM OL	J 1100	↓	PHY	RF	ROC	
1515		OU OT	OG	OM OL	"	↓	PHY	RF	"	
1520	chimps coming down from PHY.									
1521	Hand clasp mutual groom OU					↔	OT			HCG
1522	OU grooming OT after hand clasp									
1523	chain grooming OM→OU→OT.									
1524	Hand clasp mutual groom					OT	↔	OU		HCG OM
1525	OT grooming OG as OM grooms OU.									
1528	OU grooming OG									
1530		OU OT	OG	OM OL	J 1100				ROC	
1533	OG grooming OU.									
1535	OU grooming OM.									
1537	OT and OG feeding on THV									
1538	OM grooming OU.									
1541	OM grooming OG.									

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 24th MONTH July 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						
1544	OG grooming on									
1545		OU OT	OG	OM OL	J/LOD	✓	PEN	PITH	ROC	
1551	AJ joined the party, OG made pant barks.									
1600	AJ	OU OT	OG	OM OL	K/GLT				Ø	
1605	AJ climbed into CAF and started feeding									
1615	AJ	OU OT	OG	OM OL	K/GLT	✓	CAF	YL	Ø	
1623	OU family went missing									
1630	AJ				K/GLT	✓	CAF	YL	Ø	
1645	AJ				"	✓	CAF	YL	Ø	
1700	AJ				"	✓	CAF	YL	Ø	
1701	AJ coming down from CAF.									
1705	AJ feeding on PEN PITH.									
1715	AJ				K/GLT	✓	PEN	PITH	Ø	
1730	AJ				"	✓	PEN	PITH	Ø	
1745	AJ				"	✓	PEN	PITH	Ø	
1800	AJ				"	✓	PEN	PITH	Ø	
1815	AJ				"	✓	PEN	PITH	ROT	
1830	AJ				"	✓	PEN	PITH	ROT	
1832	AJ feeding on LLL YL.									

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):

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KPC Behavior

DAY 24th MONTH July YEAR 2009 OBSERVER KJ 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
1842	AJ feeding on CAF 4L.									
1845	AJ				MFP Bug	✓	CAF	4L	Ø	
1852	AJ coming down from CAF									
1854	AJ eating brown soil from the roots of a fallen tree.									
1900	AJ				MFP Bug				Ø	
1902	AJ started making a night rest in an Albizia of about 36 cm dbh at 24 metres high.									
1905	KJ left 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