DAY 21st MONTH March YEAR 09 OBS-PC SM TMF/40 SJ TWIC MK HOW FOUND FT

	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
Estrus																																															
5:45																																															
6:00																																															
6:15																																															
6:30																																															
6:45																																															
7:00																																			X	X	X					N/25	None	FEX	RF
7:15																																			X	X	X					"	"	"	"
7:30							X				X																								X	X	X					✓		PTE	FL
7:45							X				X																								X	X	X					N/25		"	"
8:00							X				X																								X	X	X					D/25		—	—
8:15							X				X																								X	X	X					D/24		MMS	RF
8:30							X																												X	X	X					"		—	—
8:45	X						X																												X	X	X					P/23		—	—
9:00	X						X				X																								X	X	X					"	✓	—	—
9:15	X						X				X																								X	X	X					"	None	—	—
9:30																																														
9:45	X		X	X			X				X												X	X						X	X										P/24	None	THV	
10:00	X		X	X			X				X												X	X						X	X													
10:15	X		X	X			X				X												X	X						X	X												THV	
10:30	X		X	X			X				X												X	X						X	X													
10:45	X		X	X			X				X												X	X						X	X												CDA	RF
11:00	X		X	X			X				X												X	X						X	X												THV	
11:15	X		X	X			X				X												X	X						X	X												—	—
11:30	X		X	X			X				X												X	X						X	X												—	—
11:45	X		X	X			X				X												X	X						X	X												THV	
12:00	X		X	X			X				X												X	X						X	X												"	
12:15	X		X	X			X				X												X	X						X	X												"	
12:30	X		X	X			X				X												X	X						X	X										✓	✓	TRM	RF
12:45	X		X	X			X				X												X	X						X	X										P/24	None	THV	
	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				
13:00	X		X	X			X				X												X	X						X	X										P/24	None	TRI	YL
13:15	X		X	X			X				X												X	X						X	X												"	"
13:30	X		X	X			X				X												X	X						X	X												"	"
13:45	X		X	X			X				X												X	X						X	X												THV	
14:00	X		X	X			X				X												X	X						X	X													
14:15	X		X	X			X				X												X	X						X	X													
14:30	X		X	X			X				X												X	X						X	X													
14:45	X		X	X			X				X												X	X						X	X													
15:00	X		X	X			X				X												X	X						X	X													
15:15	X		X	X			X				X												X	X						X	X													
15:30	X		X	X			X				X												X	X						X	X													
15:45	X		X	X			X				X												X	X						X	X										✓			
16:00	X		X	X			X				X												X	X						X	X										P/24	✓		
16:15	X		X	X			X				X												X	X						X	X										Q/24	None		
16:30	X		X	X			X				X												X	X						X	X											BAB		
16:45	X		X	X			X				X												X	X						X	X												✓	
17:00	X		X	X			X				X												X	X						X	X											✓	THV	
17:15	X		X	X			X				X												X	X						X	X											BAB	TRI	YL
17:30	X		X	X			X				X												X	X																	None	—	—
17:45	X		X	X			X				X												X	X																		—	—
18:00	X		X	X			X				X												X	X																	✓	CAF	YL
18:15	X		X	X			X				X												X	X																	Q/25	—	—
18:30	X		X	X			X				X												X	X																	"	✓	—	—
18:45	X		X	X			X				X												X	X																	"	None	—	—
19:00																																														
19:15																																														
19:30																																														
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	GRID	MNK	SP	PT
Health																																														

COMMENTS —

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

Wh (1) QT (1)

KPC Behavior

DAY 21st MONTH March YEAR 09 OBSERVER SM SJ IW (IC MK) 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
659	OBS found chimps in FEX tree				feeding at					c/g
700		WL QT	Qv WC		C/g	✓	FEX	RF	Ø	
703	Heard distant calls from South of K-14 WL									
	and QT responded with pant hoots									
715		WL QT	Qv WC		C/g	✓	FEX	RF	Ø	
724	Chimps climbed down on ground then moving									
728	WL WC QT Qv joined KK and TJ in PTE tree									
	Wh and QT made pant hoots									
730	KK TJ	WL QT	Qv WC		E/T	✓	PTE	FL	Ø	
742	KK TJ	WL QT	Qv WC		"	✓	"	"	Ø	
745	KK leaving the feeding tree						TJ	followed		
	him									
745	KK made vocal displays and buttress bangs									
	Others made waars									
746	WL (WC) and QT (Qv) leaving the feeding tree									
	all chimps reach on ground then moving									
748	KK made vocal displays and TJ joined									
	him with vocal displays (both made buttress bangs Wh and QT made waar barks)									
753	KK made non vocal displays and buttress bangs									
	Wh made pant barks									

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 21st MONTH March YEAR 09 OBSERVER SMSJ TW ICMK 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
755	KK made vocal displays and TJ joined									
	him making vocal displays but KK made buttress									
	bungs QT and WL made pant barks									
756	KK Made vocal displays and TJ also									
	made vocal displays all made buttress bungs									
	WL made pant barks									
800	KK TJ	WL QT	Qv WC		K/-1				Ø	
806	chimps climbed into MMS tree and started									
	feeding on ripe fruits									
808	Heard distant calls from north of K3 ored									
	this party responded with pant hoots									
809	TJ made vocal displays and KK joined									
	him making vocal displays moving towards									
	TJ who fled screaming climbing a tree									
815	KK TJ	WL QT	Qv WC		F/27	✓	MMS	RF	Ø	
819	Heard distant calls from north of K3 ored									
	KK made waar barks									
828	TJ left the party and moved away									
830	KK	QT WL	Qv WC		F/27				Ø	
831	ST joined the party others made pant hoots									

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): 828 TJ left the party and moved away

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

831 chimps leaving the tree and moving on ground

TJ① LR① **KPC Behavior**

DAY 21st MONTH March YEAR 09 OBSERVER MK SM ST TJ 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
845	KK ST	WL RT	Dr WC		R1/49				Ø	
855	TJ joined the party but no calls made									
900	TJ KK ST	WL RT	Dr WC		R7/49				Ø	
915	TJ KK ST	WL RT	Dr WC		11				Ø	
920	Chimps got lost in adense vegetation at R5/49 as they are travelling									
943	SM joined IC with chimps moving as they are feeding THV at 51/NTJ by following calls									
945	BB YB KK ST TJ	TG LR	LO TT	TS	51/NTJ	✓	THV		Ø	
945	TG and TT feeding on Brown soil along the side road.									
1000	BB YB KK ST TJ	TG LR	LO TT	TS	V/NTJ	✓	THV		Ø	
1015	BB YB KK ST TJ	TG LR	LO TT	TS	11	✓	11		Ø	
1030	BB YB KK ST TJ	TG LR	LO TT	TS	11	✓	11		Ø	
1034	KK BB TG TT TS climbed into COA Tree and started feeding on Ripe fruits									
1045	BB YB TJ ST KK	TG LR	LO TT	TS	V/NLT	✓	COA THV	RF	Ø	
1054	Chimps leaving the feeding and moving									
1057	KK grooming BB									
1058	Hand clasp mutual groom				BB ⟷ KK					Hcg

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 21st MONTH March YEAR 09 OBSERVER TC MK SM SJ TW 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
1059	BB groomed KK after hand clasp									
1100	KK TJ ST BB YB	TG LR	LO TT	TS	V/NU	✓	THV		Ø	
1110	LR grooming	LO								
1110	LR grooming	TJ								
1111	Hand clasp	Mutual groom			LR ↔ TJ					HCG
112	LR groomed TJ after hand clasp									
114	JT grooming TS									
1115	KK TJ ST BB YB	TG LR	LO TT	TS	V/NU				Ø	
1130	KK TJ ST BB YB	TG LR	LO TT	TS	U				Ø	
1132	LR playing with TT by make Soft bites and									AP
	patting each other									
1138	TG approached	Pant grunting to KK LR								PTG
	groomed her									
1145	TJ KK BB YB ST	TG LR	TT LO	TS	V/NU	✓	THV		Ø	
1200	TJ KK BB YB ST	TG LR	TT LO	TS	U	✓	U		Ø	
1211	YB made non vocal displays and KK joined									
	him making non vocal displays TG fled scream									
	ing climbing a tree and ST TT also fled Silent									
	climbing tree's									
1215	YB BB ST TS KK	TG LR	TT LO	TS	V/NU	✓	THV		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 21st MONTH March YEAR 09 OBSERVER LE MK SM SJ TW 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						
1225	TJ TS feeding on TRM ripe fruits									
1230	ST YB BB TJ KK	TG LR	LO TT	TS	V NTJ	✓	TRM THV	RF	Ø	
1239	KK made non vocal displays and chased									
	YB who fled screaming and other individuals									
	fled screaming in a poor view									
1242	YB feeding on TRI young leaves									
1243	ST grooming KK									
1245	ST YB BB TJ KK	TG LR	LO TT	TS	V NTJ	✓	THV		Ø	
1246	LR approach Pant grunting to				ST	and	groomed			PTG him
1258	TG TT TS TJ feeding on TRI young leaves									
1300	ST YB BB TJ KK	TG LR	LO TT	TS	V NTJ	✓	TRI	JL	Ø	
1315	ST YB BB TJ KK	TG LR	LO TT	TS	"	✓	"	"	Ø	
1330	ST YB BB TJ KK	TG LR	LO TT	TS	"	✓	"	"		
1345	ST YB BB TJ KK	TG LR	LO TT	TS	"	✓	THV		Ø	
1346	ST grooming him self									
1353	LR grooming ST									
1400	ST YB BB TJ	TG LR	LO TT	TS	V NTJ	✓	THV		Ø	
1400	KK approached BB then KK mounted								BB	Heg and
	they made hand clasp mutual groom. BB<->KK									
1401	KK groomed BB after hand clasp									

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 21st MONTH March YEAR 09 OBSERVER SM SJ IC IW 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						
1415	ST KK TJ YB BB	TG LR	TT LO	TS	V NTJ	✓	THV		Ø	
1430	KK ST TJ YB BB	TG LR	TT LO	TS	"	✓	"		Ø	
1445	KK ST TJ YB BB	TG LR	TT LO	TS	"	✓	"		Ø	
1500	KK YB BB ST TJ	TG LR	TT LO	TS	"	✓	"		Ø	
1515	KK BB YB TJ ST	TG LR	TT LO	TS	"	✓	"		Ø	
1530	KK BB YB TJ ST	TG LR	TT LO	TS	"	✓	"		Ø	
1545	KK BB YB TJ ST	TG LR	TT LO	TS	"	✓	"		Ø	
1600	KK BB YB TJ ST	TG LR	TT LO	TS	"	✓	"		Ø	
1615	KK BB YB TJ ST	TG LR	TT LO	TS	V/31	✓	"		Ø	
1630	KK BB YB TJ ST	TG LR	TT LO	TS	"	✓	"		BAB	
1645	BB KK YB ST TJ	TG LR	TT LO	TS	"	✓	"		"	
1657	KK made non vocal displays and dragging a stick some one fled past barking									
1709	KK ST YB BB TJ	LR TG	LO TT	TS	V/31	✓	THV		BAB	
1702	KK grooming BB and YB grooming ST									
1710	TT and TG feeding on TRI young leaves									
1713	KK feeding on TRI young leaves									
1715	KK ST YB BB TJ	LR TG	LO TT	TS	V/31	✓	TRI	YL	BAB	
1720	LR LO left the party and moved away									
1730	KK ST YB BB TJ	TS	TT	TS	V/31				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 21st MONTH March YEAR 89 OBSERVER TWMK SMSJ IC 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						
1745	KK BB ST YB TJ	TG	TT	TS	V/31				Ø	
1745	KK made vocal displays and slapping the									
	ground TS and TT fled silent TT climbed									
	a tree									
1746	YB made non vocal displays TJ and TG TS									
	fled screaming TG, TS climbed a tree									
1755	TT feeding on FFX young leaves									
1759	TS feeding on CAF young leaves									
1800	KK BB ST YB TJ	TG	TT	TS	00/31	✓	CAF	YL	Ø	
1804	KK made vocal displays and buttress bangs									
	but no one responded									
1813	ST build a night nest and rest tree = TEC									
	HT = 6m	Dbh =	10 cm							
1814	KK build a night nest and rest tree = TEC									
	HT = 7m	Dbh =	13 cm							
1814	TJ build a night nest and rest tree = Dosp									
	HT = 18M	Dbh =	22cm							
1815	KK BB ST YB TJ	TG	TT	TS	W/5				Ø	
1815	TG build a night nest and rest tree = CAF									
	HT = 18m	Dbh =	16 cm							

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 21st MONTH March YEAR 09 OBSERVER TW MK SMSJ IC 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
1818	BB build aright nest and rest tree =									TEC
	HT = 7m	Dbh = 13cm								
1821	YB build aright nest and rest Tree =									TEC
	HT = 5m	Dbh = 12cm								
1830	KK ST YB BB TS	TG	TT	TS	W/S				Ø	
1845	KK ST YB BB TS	TG	TT	TS	n				Ø	
1850	OBS leaving the nest 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