DAY 13th MONTH March YEAR 09 OBS-PC SM TMF/40 ST KJ MK 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	GRID	MNK	SP	PT
Estrus																																															
5:45																																															
6:00																																															
6:15																																															
6:30																																															
6:45																																															
7:00												X																						X	X	X						N/25	None	—	—
7:15												X																						X	X	X						11	11	—	—
7:30												X																						X	X	X						11	11	—	—
7:45								X																									X	X	X	X						M/26	mgB	FCP	RF
8:00								X																									X	X	X	X									
8:15							X	X																									X	X	X	X									
8:30							X	X																									X	X	X	X									
8:45							X	X																									X	X	X	X									
9:00							X	X																									X	X	X	X									
9:15							X	X																									X	X	X	X									
9:30							X	X																									X	X	X	X									
9:45							X	X																									X	X	X	X									
10:00							X	X				X																					X	X	X	X									
10:15	X						X	X				X																					X	X	X	X									
10:30	X						X	X				X																					X	X	X	X									
10:45	X						X	X				X																					X	X	X	X									
11:00	X						X	X				X																					X	X	X	X									
11:15	X						X	X				X																					X	X	X	X									
11:30	X						X	X				X																					X	X	X	X									
11:45	X						X	X				X																					X	X	X	X									
12:00	X						X	X				X																					X	X	X	X									
12:15	X						X	X				X																					X	X	X	X									
12:30	X						X	X				X																					X	X	X	X									
12:45	X						X	X				X																					X	X	X	X									
	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						M/26	X	—	—
13:15	X						X	X				X																					X	X	X	X						L/26	None	—	—
13:30	X						X	X				X																					X	X										—	—
13:45	X						X	X				X																					X	X										—	—
14:00	X						X	X				X																					X	X										—	—
14:15	X						X	X				X																					X	X										—	—
14:30	X						X	X				X																					X	X										—	—
14:45	X						X	X				X																					X	X									L/26		CAF	YL
15:00	X						X	X				X																					X	X									L/27		—	—
15:15	X						X	X				X																					X	X											—	—
15:30	X						X	X				X																					X	X											Hny	
15:45	X						X	X				X																					X	X											11	
16:00	X						X	X				X																					X	X											n	
16:15	X						X	X				X																					X	X											JAS	YL
16:30	X						X	X				X																					X	X									L/25		THV	
16:45	X						X	X				X																					X	X									M/24		ANT	RF
17:00	X						X	X				X																					X	X											n	u
17:15																																	X	X											—	—
17:30																																	X	X											BRL	RF
17:45																																	X	X											n	n
18:00																																	X	X									M/27	None	—	—
18:15																																	X	X									M/26	X	FCP	RF
18:30																																	X	X									n	X	n	n
18:45																																	X	X									n	X	—	—
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	1						1	1				1																			1	2			1	1	1	1								

COMMENTS LO have dry cough, BAB, MgB from 900–1300, BAB MgB 1815–1845.

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

WL ① QT ① LR ① **KPC Behavior**

DAY 13th MONTH March YEAR 09 OBSERVER MK SMSJKJ 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
651	OBS arrived at the nest site									
700	TJ	WL QT	WC QV		E/9				Ø	
715	TJ	WL QT	WC QV		11				Ø	
717	WL (WC) leaving aright nest									
723	chimps climbed down on ground and started									
	Moving									
730		WL QT	WC QV		E/11				Ø	
733	Chimps got lost in adense vegetation at E/11									
741	OBS found KK LR LO in FCP tree feeding									
	at B/27									
743	WL WC QT QV joined the party they made									
	pant barks others didn't respond									
745	KK	LR WL QT	LO WC QV		B/27	✓	FCP	RF	MgB	
752	Heard distant calls from west of K 14									
	this party responded with waar barks									
757	Heard distant calls from from west of									
	K 14 this party responded with waar barks									
800	KK	LR WL QT	LO WC QV		B/27	✓	FCP	RF	MgB	
801	LR grooming LO									
807	LK 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):

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 13th MONTH March YEAR 09 OBSERVER MK SMSJKJ 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						
815	LK KK	LR WL QT	LO WC QV		B/27	✓	FCP	RF	MgB	
830	LK KK	LR WL QT	LO WC QV		〃	✓	〃	〃	〃	
835	LR build a day nest with in a feeding tree and									
	Nest Ht = 12 m									
837	LK moved towards QT who avoid him casual									
	making pant barks									
845	LK KK	LR WL QT	LO WC QV		B/27	✓	FCP	RF	MgB	
857	KK grooming himself									
900	LK KK	LR WL QT	LO WC QV		B/27	✓	FCP	RF	BAB MgB	
915	LK KK	LR WL QT	LO WC QV		〃	✓	〃	〃	〃	
919	LR (LO) leaving a day nest									
930	LK KK	LR WL QT	LO WC QV		B/27	✓	FCP	RF	BAB MgB	
940	WL approach pant barking to LK and she extended									
	hand to him LK ignored									
944	Chimps leaving the feeding tree and moving									
	on ground									
945	LK KK	LR WL QT	LO WC QV		B/27				BAB MgB	
945	WL and LK both grooming KK									
946	Hand clasp mutual groom				LK <-> KK					HCG
947	LK groomed KK 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 13th MONTH March YEAR 09 OBSERVER MK SM SJ 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						
948	Hand clasp mutual groom KK				<->		LK			Hcg
950	KK groomed LK after hand clasp									
951	Mutual groom KK <->									
954	LK groomed KK after mutual groom									
955	KK grooming LK									
956	TJ joined the party then TJ to LK and KK both ignored						Pant grunted			PTg
957	LK grooming KK									
1000	TJ LK KK	LP BT WL	LO BV WC		B/27				RAB mg12	
1000	LK grooming himself									
1002	ST joined the party			Others made pant hoots						
1002	KK grooming LK									
1002	Hand clasp mutual groom KK <-> LK									Hcg
1003	LK groomed KK after hand clasp									
1004	ST and TJ entered into FCP tree and started feeding									
1006	Mutual groom LK <-> KK									
1008	KK grooming LK									
1008	WK AT	feeding on	CBu	ripe fruits						
1009	LK 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 13th MONTH March YEAR 09 OBSERVER RMMK SMSJKJ 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
1015	ST LK KK TJ	LR WL GT	LO RV WC		B/27	✓	FCP CDU	RF RF	BAB MGB	
1019	KK grooming LK									
1025	LK grooming KK									
1029	KK grooming LK									
1030	ST LK KK TJ	LR WL GT	LO RV WC		B/27	✓	FCP	RF	BAB MGB	
1034	KK grooming WL									
1035	WL grooming KK									
1035	Hand clasp mutual groom WL <--> KK									HCG
1038	Mutual groom after hand clasp				WL <--> KK					
1038	WL grooming LK and KK grooming herself									
1039	Chain groom KK => WL => LK									
1041	WL grooming KK and LK grooming himself									
1042	WL grooming herself									
1045	ST LK KK TJ	LR WL GT	RV LOWC		B/27	✓	FCP	RF	BAB MGB	
1047	WL (WC) climbed into afeeding and started feeding									
1100	ST LK KK TJ	LR WL GT	RV LOWC		B/27	✓	FCP	RF	BAB MGB	
1114	WL (WC) leaving the feeding tree									
1115	ST LK KK TJ	LR WL GT	RV LOWC		B/27	✓	FCP	RF	BAB MGB	
1130	ST LK KK TJ	LR WL GT	RV LOWC		"	✓	"	"	"	
1145	ST LK KK TJ	LR WL GT	RV LOWC		"	✓	"	"	"	

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 13th MONTH March YEAR 09 OBSERVER MK RM SM ST 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
1146	TJ leaving the feeding tree									
1151	Hand clasp mutual groom				KK ←→			LK		HCg
1152	LK groomed KK after hand clasp									
1200	ST LK KK TJ	LR WL QT	LO WC QV		B/27	✓	FCP	RF	BAB MGB	
1210	ST leaving the feeding tree				beach				on ground	
	then moving									
1211	TJ grooming LK									
1212	Chain groom LK → ST → KK									
1212	Hand clasp mutual groom	LR			←→		LK			HCg
1213	Hand clasp mutual groom	ST			←→		KK			HCg
1214	LR grooming LK after hand clasp									
1215	ST LK KK TJ	LR WL QT	LO WC QV		B/27				BAB MGB	
1215	LK grooming LR									
1215	ST grooming KK after hand clasp									
1217	LR grooming LK and KK grooming ST									
1230	Chain groom LR → LK →				ST ←			KK		
1221	Chain groom LR → ST → LK									
1221	TJ grooming QT and	LR	LK		both			grooming ST		
	after chain groom									
1223	QT grooming TJ									

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 13th MONTH March YEAR 09 OBSERVER KM MK SM SJ 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
1223	Hand clasp mutual groom			LK	←	→	ST	←	LR	Hcg
1224	LO Was heard coughing (dry cough)									
1224	WL grooming									
1225	Hand clasp mutual groom			QT	←	→	TJ			Hcg
1225	LK groomed ST after hand clasp and QT groomed									
	TJ after hand clasp									
1226	Hand clasp mutual groom			LR	←	→	KK			Hcg
1228	QV playing with LO by patting each other and wrestling togather									
1229	LK and KK grooming ST									
1230	ST LK TJ KK	LR WL QT	LO QV WC		B/27				BAB MgB	
1230	LK grooming LR									
1232	LR grooming LK and ST grooming KK									
1234	Hand clasp mutual groom			QT	←	→	TJ			Hcg
1235	QT groomed TJ after hand clasp									
1236	LR grooming herself									
1237	LR grooming WL									
1237	Hand clasp mutual groom			QT	←	→	TJ			Hcg
1237	WL grooming LR									
1238	QT groomed TJ after hand clasp									Hcg
1239	TJ grooming QT									

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 13th MONTH March YEAR 09 OBSERVER MK RM SMSJKT 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						
1241	QT approach pant grunting to KK				and groomed					PTG Lum
1259	Heard distant calls from north of K 14									
	this party responded with wraas									
1300	LK ST TJ KK	LR WL QT	LO QV WC		B2/28				BAB ingB	
1300	Heard distant calls from north of K 14. Some									
	ID's in this party made pant hoots									
1303	Someone made made vocal displays then KK and									
	ST made buttress bungs									
1305	ST and KK made joint vocal displays and TJ									
	made vocal displays and buttress bungs									
1315	LK ST KK TJ	LR WL QT	LO QV WC		C/29				Ø	
1320	QT QV WL WC left the party and moved away.									
1330	KK TJ LK ST	LR	LO		C/29				Ø	
1345	KK TJ LK ST	LR	LO		N				Ø	
1350	LK grooming KK									
1358	Heard distant calls from north of K 14 this									
	party Made waaus									
1400	KK TJ LK ST	LR	LO		C/29				Ø	
1401	It started raining and chimps were on ground RN resting									
1403	KK and LK joined them	made joint vocal displays making vocal displays					and	TJ	ST	LR

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 18th MONTH March YEAR 09 OBSERVER MK RM SM ST 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
1415	ST LK KK TJ	LR	LO		C/29				Ø	
1430	ST LK KK TJ	LR	LO		"				Ø	
1443	Chimps climbed into CAF tree and started feeding									
	on young leaves									
1445	ST LK KK TJ	LR	LO		C/29	✓	CAF	YL	Ø	
1500	ST LK KK TJ	LR	LO		CEXT/EB ext				Ø	
1515	ST LK KK TJ	LR	LO		"				Ø	
1517	LR feeding on Brown soil from root of a fallen tree									
1519	LK and KK made joint vocal displays and KK made buttress bungs									RD
1526	LK and KK followed by LR all climbed for honey while LK and KK making food barks									HNY, FBK Bee
	Immediately LK put his hand into a hole of a tree									
	and picked Bee comb containing honey he moved									
	away and started feeding all Sometime KK picked									
	a Bee comb he also feed on honey as they wipe									
	Bee's away using branches of leaves									
1527	LR and ST also approached they also picked									
	Bee combs and feeding on honey also.									
1530	TJ KK ST LK	LR	LO		CEXT/EB ext	✓	HNY		Ø	
1545	TJ ST KK LK	LR	LO		"	✓	"		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 13th MONTH March YEAR 09 OBSERVER RM SM SJ 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
1548	It stoped raining and we've				feeding on Bee honey					
1600	TJ LK ST KK	LR	LO		C EB / EB	✓	HNY		∅	
1603	TJ feeding on CAF young leaves									
1605	KK LK ST	LR	climbed down		on ground then					
	moving after feeding on honey									
1612	LR and KK	feeding on JAS			young leaves					
1615	TJ	feeding on TRI			young leaves					
1619	TJ ST KK LK	LR	LO		S / KTO	✓	JAS TRI	YL YL	∅	
1630	TJ ST KK LK	LR	LO		11	✓	THV		∅	
1632	LR (LO)	climbed into ANT tree and			feeding on ripe fruits					
1643	LR grooming LO									
1648	ST LK KK TJ	LR	LO		S / KTO	✓	ANT THV	RF	∅	
1700	ST LK TJ KK	LR	LO		11	✓	11	11	∅	
1705	LR (LO)	leaving the feeding tree and			started moving					
	on ground									
1712	ST KK LK TJ	left LR LO	behind		and they moved away					RM followed them
1715		LR	LO		S / 29				∅	
1719	LR (LO)	feeding on	BRL ripe fruits							
1730		LR	LO		S / 29	✓	BRL	RF	∅	
1745		LR	LO		11	✓	11	11	∅	

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 13th MONTH March YEAR 09 OBSERVER SM SJ 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		LR	LO		S/29				Ø	
1810	LR (LO) climbed into FCP tree and started									
	feeding									
1815		LR	LO		B/27	✓	FCP	RF	~~BAB~~ MGB	
1830		LR	LO		"	✓	"	"	"	
1838	LR (LO) leaving the feeding tree									
1840	LR (LO) entered into old nest and improving it									
	then rest tree = CAF		HT = 22 m				DBH = 52 cm			
1845		LR	LO		B/27				~~BAB~~ MGB	
1848	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

1804 LR feeding on red soil from roots of a fallen tree