DAY 24th MONTH 02 YEAR 09 OBS-PC Fm TMF/40 TWMK KJ HOW FOUND N

Estrus																				2			1	1		1	1					GRID	MNK	SP	PT
	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				
5:45																																														
6:00																																														
6:15																																														
6:30																																														
6:45																																														
7:00																															X				X		X					X	N/26		FBR	RF
7:15																															X				X		X					X	"		"	"
7:30																															X				X		X					X	M/25	RDT	FNA	
7:45																															X				X		X					X	"	"	"	"
8:00																															X				X		X					X	"	RDC		
8:15																															X				X		X					X	M/25	"	FNA	RF
8:30																															X				X		X						M/26		FCP	
8:45																															X				X		X									
9:00																															X				X		X									
9:15																															X				X		X									
9:30																															X				X		X							M9b		
9:45																															X				X		X									
10:00																															X				X		X									
10:15																															X				X		X									
10:30																															X				X		X									
10:45																															X				X		X									
11:00																															X				X		X							M9b		
11:15																															X			X		X										
11:30																															X				X		X									
11:45																															X				X		X									
12:00																															X				X		X									
12:15																															X				X		X									
12:30																															X				X		X						M/26	M9b	FCP	RF
12:45																																											L/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				
13:00																															X				X		X					X	L/25	NEO	WD	
13:15																												X	X	X				X	X	X					X	"			
13:30																											X	X	X	X	X			X	X	X	X				X	L/25		—	—
13:45																																									X		K/25		—	—
14:00																												X	X	X				X	X	X						L/25		FNA	RF
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/25		FNA	RF
15:00																													X	X				X	X	X					X	L/24		—	—
15:15																													X	X				X	X	X						M/23		—	—
15:30																													X	X				X	X	X								FBR	RF
15:45	X	X	X	X	X	X	X	X	X	X	X	X							X	X				X	X	X			X	X				X	X	X				X				THV	THV
16:00	X	X	X	X	X	X	X	X	X	X	X	X							X	X				X	X	X			X	X				X	X	X				X					
16:15	X	X	X	X	X	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	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	X				X	X	X				X	M/23		THV	THV
17:00	X	X	X	X	X	X	X	X	X	X	X	X							X	X				X	X	X			X	X				X	X	X				X	M/24		CAF	YL
17:15	X	X	X	X	X	X	X	X	X	X	X	X							X	X				X	X	X			X	X				X	X	X				X		RDT		
17:30	X	X	X	X	X	X	X	X	X	X	X	X							X	X				X	X	X			X	X				X	X	X				X		"		
17:45	X	X	X	X	X	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	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	X				X	X	X				X				
18:30	X	X	X	X	X	X	X	X	X	X	X	X							X	X				X	X	X			X	X				X	X	X				X			CAF	YL
18:45	X	X	X	X	X	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	M/24		—	—
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						4																																				2				

COMMENTS NP was heard sneezing, and MS had a wound on his left palm.

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

LR ① RT ①

DAY **24th**   MONTH **02**   YEAR **09**   OBSERVER **Fm Tw 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
658	Obs arrived at the nest site late because of									
	elephants and found LR NP feeding on FBR.									
700		LR RT	LO RV	NP	F/21	✓	FBR	RF		
715		LR RT	LO RV	NP	"	✓	"	"		
716	RT (RV) leaving the night nest.									
717	Heard distant calls from K15 and									
	this party didn't respond.									
725	Chimps climbed into FNA at			B/21						
730		LR RT	LO RV	NP	"	✓	FNA	RF	RDT	
745		LR RT	LO RV	NP	"	✓	"	"	"	
751	RT (RV) leaving the feeding tree.									
800		LR RT	LO RV	NP	B/21	✓	FNA	RF	RDT	
815		LR RT	LO RV	NP	"	✓	"	"	"	
820	Chimps leaving the feeding tree.									
829	Chimps climbed into FCP.									
830		LR RT	LO RV	NP	B/27	✓	FCP	RF		
845		LR RT	LO RV	NP	"	✓	"	"		
900		LR RT	LO RV	NP	"	✓	"	"		
902	NP moved into a day nest in the feeding tree.									

AT 15-MINUTE INTERVALS: Party Composition, Location, Food, MNK   **ESTROUS:** 1 = None, 2 = Partial, 3 = Full
BEHAVIOR CODES (List all that you see - See reference sheet for required data):
 AP: Adult Play; **CP:** Copulation; **CY:** Carry; **DR:** Drink; **FBK:** Food bark; **HCG:** Hand-clasp groom; **HNY:** Honey;
 IGI: Intergroup interaction; **LF:** Leaf use; **MAT:** Attacked by monkeys; **PIG:** Pigs; **PRED:** Predation; **PTG:** Pant-grunt;
 RN: Rain; **RD:** Rain display; **STK:** Stick use; **TLU:** Tool use; **UNF:** Unusual food; **Q:** Other unusual events

KPC Behavior

WL ①

DAY __24th__ MONTH __02__ YEAR __09__ OBSERVER __Fm TWKJ__ (MNK above) 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
913	NP leaving the day nest.									
915		LR RT	LO RN	NP	B/27	✓	FCP	RF		
918	RT (RN) building a day nest in the feeding tree.									
930		LR RT	LO RN	NP	B/27	✓	FCP	RF	mgb	
938	LR moved into an old day nest and started improving it.									
945		LR RT	LO RN	NP	B/27	✓	FCP	RF	mgb	
1000		LR RT	LO RN	NP	"	✓	"	"	"	
1007	RT (RN) moved into the day nest and improved it.									
1015		LR RT	LO RN	NP	B/27	✓	FCP	RF	mgb	
1018	LR (R) leaving the day nest.									
1030		LR RT	LO RN	NP	B/27	✓	FCP	RF	mgb	
1045		LR RT	LO RN	NP	"	✓	"	"	"	
1100		LR RT	LO RN	NP	"	✓	"	"	"	
1114	WL (WL) joined the party.									
1115		WL LR RT	LO WL RN	NP	B/27	✓	FCP	RF	mgb	
1126	RT (RN) leaving the day nest.									
1128	WL approached RT who pant grunted and groomed her.									PTG
1130		WL LR RT	LO WL RN	NP	B/27	✓	FCP	RF		

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

AL ① **KPC Behavior**

DAY __24th__ MONTH __02__ YEAR __09__ OBSERVER __Fm MK KJTW__ Found: C FT FFT (N) Other_____

Time	Party Composition AMM	AFF (include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH CODE
1145		LR WL QT	LOWC QN	NP	B/27	✓	FCP	RF		
1153	NP building a day nest in the feeding tree.									
1200		LOWL QT	LOWC QN	NP	B/27	✓	FCP	RF		
1208	QT <u>chased</u> NP who <u>fled screaming</u> in the feeding tree but no one responded.									
1213	WL moved into a day nest in the feeding tree.									
1215		WL LR QT	LOWC QN	NP	B/27	✓	FCP	RF		
1217	LR moved into a day nest in CAF.									
1228	WL leaving the feeding tree.									
1230		WL LR QT	LOWC QN	NP	B/27	✓	FCP	RF	MGB	
1231	LR ⑩ leaving the day nest.									
1242	LR eating brown soil from a ground hole.									
1245		WL LR QT	LOWC QN	NP	T/27					
1251	LR feeding on NEO wood.									UNF
1300		WL LR QT	LOWC QN	NP	T/26	✓	NEO	WD		
1313	The party joined AL AT AZ and all made pant hoots.									
1314	Hand clasp mutual groom									HCG AL↔LR
1315	AL grooming LR.									
1315		WL AL LR QT	LOAT WC AZ QN	NP	M/27					

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

Time	Party Composition AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH CODE
1316	Heard distant calls from mikana and									
	this party responded with pant hoots.									
1320	Hand clasp mutual groom									Hcg AL⇄AT.
1321	AL grooming AT.									
1323	NP playing with AZ by tickling and biting.									
1330		WL LR AL AT	LO AZ AT WC RN	NP	M/26					
1337	NP feeding on NEO wood.									
1342	Chimps scattered and got lost but we stayed with NP.									
1345				NP	CR/27					
1347	We left NP alone and went for a bigger group.									
1358	Obs found chimps in FNA at				θ/23					
1400		WL AL AT	AT AZ WC RN		"	✓	FNA	RF		
1415		WL AL AT	AT AZ WC RN		"	✓	"	"		
1430		WL AL AT	AT AZ WC RN		"	✓	"	"		
1445		WL AL AT	AT AZ WC RN		θ/23	✓	FNA	RF		
1449	LR (LO) NP joined the party and every one left the tree.									
1450	LR grooming AT.									
1500		WL LR AL AT	LO AZ WC AT RN	NP	M/23					
1503	NP was heard sneezing.									

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 02   YEAR 09   OBSERVER Fo KJTW (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						
15⁰⁸	Heard distant calls from west and this									
	party responded with pant hoots and warbarks.									
15¹⁵		WK LR AK DT	LOAZ QN WC AT	NP	F/400					
15²⁶	Chimps climbed into FBR 020.									
15³⁰		WK LR AK DT	LOAZ QN WC AT	NP	F/400	✓	FBR DF			
15³¹	chimps leaving the feeding tree.									
15³³	The party joined KK LK ES PB EY T9 IS TT YB and PB			ST						
	made non vocal displays and ground slaps and									
	others (females) fled screaming.									
15³⁴	AK approached and presented to ES who inspected									
	her by smelling at the Estrous and groomed her.									
	Immediately PB made non vocal displays and									
	ES joined but PB casually avoided pant barking.									
15³⁵	KK LK made non vocal displays and PB made									
	non vocal displays and ground slaps, then LK									
	chased WK who fled into the tree screaming.									
15⁴³	AZ grooming NP.									
15⁴⁴	WK approached pant grunting to KK, then presented									
	and he inspected by touching on the Estrous									
	and groomed her.									

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

T9 ②

KPC Behavior

DAY __24th__ MONTH __02__ YEAR __09__ OBSERVER __Fm KJTW__ 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						
1545	AJ LKKK ST ES SPg YB PB TUMST BB	WL LR AK QT T9	LOAZ TIA TRN WC	NP EU TS	D /400		THV	THV		
1546	Hand clasp mutual groom									HCG KK→WK
1547	KK grooming WK.									
1548	LR pant grunted and groomed		YB.							PTG
1548	PB grooming NP.									
1550	NP grooming PB.									
1554	KK self grooming.									
1558	LK grooming AK.									
1559	Hand clasp mutual groom									HCG KK→AK
1600	AK grooming KK.									
1600	AJ LKKK ST ES TJ YB PB TUMSPg BB	WL LR AK QT T9	LOAZ TIA TRN WC	EU TS MP	D /400		THV	THV		
1601	LK EU grooming LR and WK grooming KK.									
1602	QT approached and pant grunted to LK who groomed her.									PTG
1603	QT grooming LK, and KK grooming ST.									
1615	LKKK ST ES YB BB TUMS PS AJ PB ST J	WL LR AK QT T9	LOAT TIA ZWC BN	EU TS NP	D /400		THV	THV		
1620	LR grooming ST.									
1625	MS was seen with a wound on his left palm.									
1630	LKKK ST ES YB BB TUMS PS AJ PB ST J	WL LR AK QT T9	LOAT TIA ZWC BN	EU TS NP	D /400		THV	THV		
1632	BB grooming KK and LR grooming MS.									

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 02 YEAR 09 OBSERVER Fm KJTw   MK BP   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						
1633	Hand clasp mutual groom									HCG BB⇄KK
1634	KK grooming BB.									
1635	AJ grooming LR.									
1636	Hand clasp mutual groom									HCG AJ⇄LR
1637	LR grooming AJ.									
1638	KK LR grooming BB.									
1640	LR grooming ms.									
1641	TU feeding on UTM flowers.									
1643	LR grooming PG.									
1644	PG grooming LR.									
1644	AL approached and pant grunted to TU who groomed her.									PTG
1645	MBBB TUES LKKK MS ST AJ PG PBT	WLLR T9 AL QT	LOAZ AT TT QN WC	EUTS MP	B/400	✓	THV	THV		
1648	LR grooming LK.									
1649	Hand clasp mutual groom									HCG LK⇄LR
1650	LR grooming LK.									
1651	LK grooming LR.									
1700	MBBB TUES LKKK MS ST PG AJ PBT	WLLR T9 AL QT	LOAZ AT TT QN WC	EUTS MP	B/400	✓	CAF	YL		
1715	MBBB TUES LKKK MS ST PG AJ PBT	WLLR AT T9 AL	LOAZ AT TT QN WC	EUTS NP	B/CR	✓	4	4	RBT	

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 02   YEAR 09   OBSERVER Fm KJTW ICMKBP   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
1730	LKKL ST MS TUES YB BB AJ PG PB TJ	WL LR QT T9 AL	LO AZ TT AT QV WC	EU TS NP	13/CR	✓	CAF	YL	RDT	
1745	LKKL MS ST TUES YB BB PG AJ PB TJ	WL LR QT T9 AL	LO AZ TT AT QV WC	EU TS NP	"	✓	"	"		
1800	PB LKKL MS ST TUES YB BB PG AJ PB TJ	WL LR QT T9 AL	LO AZ TT AT QV WC	EU TS NP	"	✓	"	"		
1815	PB LKKL MS ST TUES YB BB PG AJ TJ	WL LR QT T9 AL	LO TT AT AZ WC QV	EU TS NP	"	✓	"	"		
1826	PG made non vocal displays and attack one on									
	ES by kicking and he fled screaming but									
	no one responded.									
1830	PB LKKL MS ST TUES YB BB PG AJ PB TJ	WL LR QT T9 AL	LO AZ TT AT QV WC	EU TS NP	13/CR	✓	CAF	YL		
1838	ALATAZ WL (WC) QT (QV) moved away and left the party.									
1845	KK made non vocal displays and LR fled into the tree									
	Silently while PG AJ fled pant barking.									
1845	LKKL MS ST TUES YB BB AJ PG PB	PG	TT	EU TS NP	P/14					
1846	Some males made vocal displays and others fled									
	warbarking and screaming.									
1849	LK KK made joint vocal displays chasing ST who									
	fled screaming, then BB MS chased KK who									
	also ran into the tree screaming.									
1851	PG made non vocal displays and buttress bangs,									
	and others made warbarks.									

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 __02__ YEAR __09__ OBSERVER __FmTWKJ__ (MKVCBP) 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						
1854	T9 building a night nest, 13m high DBH									
	28 cm (E) sp. Uvariopsis.									
1859	ST building a night nest 11m high, DBH? sp. Uvariopsis									
1900	T9 MKVC PG MSS TB TUES ES RB AJ PB	T9	TT	EWTS MP	SO MP	5/14				
1903	Pg building a night nest, 13 m high DBH 25 cm.									
	(E) sp. Uvariopsis.									
1904	Some Ib5 nesting in poor view.									
1907	Obs leaving the nest site and other									
	Ib5 had not yet nested.									

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