DAY 18 MONTH 04 YEAR 09 OBS-PC SJ TMF/40 SM HOW FOUND NEST

	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	UL	GRID	MNK	SP	PT
5:45																																															
6:00																																															
6:15																																															
6:30																																															
6:45				X			X												X	X	X	X	X	X				X	X	X					X	X	X	X				X		X		P/24	None	CAF	YL
7:00				X			X												X	X	X	X	X	X				X	X	X					X	X	X	X				X		X			None	CAF	YL
7:15				X			X												X	X	X	X	X	X				X	X	X					X	X	X	X				X		X			"	"	"
7:30				X			X												X	X	X	X	X	X				X	X	X					X	X	X	X				X		X				THV	THV
7:45				X			X												X	X	X	X	X	X				X	X	X					X	X	X	X				X		X			None	MMS	RF
8:00				X			X												X	X	X	X	X	X				X	X	X					X	X	X	X				X		X			None	MMS	RF
8:15				X			X												X	X	X	X	X	X				X	X	X					X	X	X	X				X		X		P/24		MMS	RF
8:30				X															X	X	X							X	X	X					X	X	X	X				X		X		P/25		—	—
8:45				X															X	X	X							X	X	X					X	X	X	X				X		X		0/25	None	ANI	RF
9:00				X															X	X	X							X	X	X					X	X	X	X				X		X			None	ANI	RF
9:15				X			X				X								X	X	X							X	X	X					X	X	X	X				X		X				"	"
9:30				X			X				X								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			None	"	"
10:00				X			X				X								X	X	X							X	X	X					X	X	X	X				X		X			None	ANI	RF
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			MGB	"	"
10:45				X			X				X								X	X	X							X	X	X					X	X	X	X				X		X			MGB	"	"
11:00				X			X				X								X	X	X							X	X	X					X	X	X	X				X		X			MGB	ANI	RF
11:15				X			X				X								X	X	X							X	X	X					X	X	X	X				X		X		0/25	"	-	-
11:30											X								X	X	X							X	X	X					X	X	X	X				X		X		N/26	"	-	-
11:45											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		"	MGB	-	-
12:15											X								X	X	X							X	X	X					X	X	X	X				X		X		N/26	RDC	-	-
12:30											X								X	X	X							X	X	X					X	X	X	X				X		X		N/25	None	-	-
12:45											X								X	X	X							X	X	X					X	X	X	X				X		X		m/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	UL				
13:00											X								X	X	X							X	X	X					X	X	X	X				X		X		m/25	None	FCN	RF
13:15											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		"	"	"	"
13:45											X																																				"	None	CAF	YL
14:00											X																																				1/28	None	CAF	YL
14:15											X																																				"	"	THV	THV
14:30																																																	
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17:30																																																	
17:45																			X	X	X	X						X	X	X													X		X		4/23	None	THV	THV
18:00																			X	X	X	X						X	X	X													X		X		"	None	THV	THV
18:15																																																	
18:30																																																	
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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	UL	GRID	MNK	SP	PT
Health	1		1	1			1	1			1								1	1	1	1						1	1	1	2				1	1	1	1				1		1					

COMMENTS 1100 Lo was heard coughing.

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

OU → ① TG → ① AL → ① ST → ① WL → ① OT → ①

KPC Behavior

DAY 18 MONTH 04 YEAR 09 OBSERVER SJ SM 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
642	OBS. arrive at nest site And some IDs were feeding CAF									
645	LK YB	TG WL OT OU AL	AZ AT TT OG QV WC	OM OL TS NP	5Y/NIJ	✓	CAF	YL	⊘	
648	LK left the night nest									
655	LK YB	TG AL OU QT WL OT	AZ AT TT OG QV WC	OM OL TS NP	5Y/NIJ	✓	CAF	YL	⊘	
659	QT (QV) left the night nest									
700	LK YB	TG WL OT OU AL	AZ AT TT OG QV WC	OM OL TS NP	5Y/NIJ	✓	CAF	YL	⊘	
715	LK YB	TG WL OT OU AL	AT AZ TT OG QV WC	OM OL TS NP	5Y/NIJ	✓	CAF	YL	⊘	
726	chimps feeding in THV.									
730	LK YB	TG WL OT OU AL	AT AZ TT OG QV WC	OM OL TS NP	5Y/NIJ	✓	THV	THV	⊘	
740	WL made vocal displays and OU joined her									
	with non-vocal displays, and others did not respond.									
741	WL made ~~non~~ vocal displays OU joined her									
	with non-vocal displays and WL Continued									
	making displays Chased NP and she fled silently									
743	WL chased NP and she fled screaming as they									
	climbed into mms for feeding									
744	YB made vocal displays and others did not respond.				A					
	WL made attack ① with a stick to NP and she fled				A					
	screaming.									

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

652 TG left the night nest

KPC Behavior

DAY 18 MONTH 04 YEAR 09 OBSERVER STSMTW 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
745	LK YB	TG AL OU OT QT WL	AT AZ TT OG QV WC	OM OL TS NP	Z/17	✓	MMS	RF	Ø	
800	LK YB	TG AL OU OT QT WL	AT AZ TT OG QV WC	OM OL TS NP	"	✓	"	"	Ø	
815	LK YB	OU TG AL OT QT WL	AT AZ TT OG QV WC	OM OL TS NP	"	✓	"	"	Ø	
824	clumps climbed down from MMS									
826	AL grooming AT									
830	YB	AL OU OT QT WL	AT AZ OG QV WC	OM OL NP	F/44				Ø	
839	someone made vocal displays and buttress bungs and others IDS made pant-barks.									
841	YB made vocal displays OU and WL fled pant-barking WL climbed a tree.									
844	YB made vocal displays and dragged AZ and he screamed but didn't avoid AL made wear-barks climbing a tree.									
845	clumps climbed into ANI #005 joining others. LR made pant-barks.									
845	YB	AL OU LR OT QT WL	AT LO AZ OG QV WC	OM OL NP	M/8	✓	ANI	RF	Ø	
846	QT arrive at the set experiment where there's honey in the tree hole and made tool use TLU by eating the honey with a stick sponged at one end while OT looks on.									

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

826 TG and family plus LK remained behind, separated

KPC Behavior

DAY 18 MONTH 04 YEAR 09 OBSERVER SJSM 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
852	Distant calls heard from west of K-30 BLU									
	and the focal group responded with pant-hoots									
855	QT left the tree hole where she was feeding honey									
	and OT immediately came for the honey and also									
	use the sponged sticks to feed on the same honey in									
	the tree hole.									
900	YB	OU AL OT QT WL LR	OG AT AZ LO QV WL	OM OL NP	M/8	✓	ANI HNY	RF HNY	Ø	
907	OT left the tree hole where she was feeding honey									
910	KK Joined the party making vocal displays and									
	buttress bungs, And someone made wears in the									
	feeding tree.									
915	KK YB PB	OU AL LR OT QT WL	OG AZ AT QV WL LO	OM OL NP	M/8	✓	ANI HNY	RF HNY	Ø	
930	KK YB PB	OU AL LR OT QT WL	OG AZ AT QV WL LO	OM OL NP	M/8	✓	ANI	RF	Ø	
945	KK YB PB	OU AL LR OT QT WL	OG AZ AT QV WL LO	OM OL NP	M/8	✓	ANI	RF	Ø	
957	LR (LO) left the feeding tree									
959	LR makes a day nest. Tree of nest UVA, Hght 14m									
1000	KK YB PB	OU AL LR QT OT WL	OG AZ AT QV WC LO	OM OL NP.	M/8	✓	ANI	RF	Ø	
"	OU makes a day nest. Tree of nest Chrysophyllum									
	Height 26m.									
1015	KK YB PB	OU AL LR OT QT WL	OG AZ AT QV WC LO	OM OL NP	M/8	✓	ANI	RF	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 18 MONTH 04 YEAR 09 OBSERVER SJSMTW 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	OU left her day nest.									
1030	KK YB PB	OU AL LR QT OT WL	OG AZ AT LO QV WC	NP OM OL	M/8	✓	ANI	RF	mgb	
1039	PB grooming OU									
1043	AL grooming AT									
1045	KK YB PB	OU AL LR QT WL OT	OG AT AZ LO QV WC	NP OM OL	M/8	✓	ANI	RF	mgb	
1050	AT grooming AL.									
1050	PB made non-Vocal displays AT and AL fled pant barking.									
1056	PB makes non-Vocal displays and ground slapping OT and OU fled climbing trees making pant-barks									
1100	KK YB PB	OU AL LR QT WL OT	OG AT AZ LO WC QV	NP OM OL	M/8	✓	ANI	RF	mgb	
"	Lo was heard Coughing.									
1109	chimps climbed down and started travelling,									
1112	QT grooming LR									
1113	AL grooming AZ,									
1114	WL grooming OU									
1115	KK YB PB	OU AL LR QT WL OT	OG AT AZ LO WC QV	NP OM OL	M/10				mgb	
1124	PB made non-Vocal displays towards LR and LR avoid casual screaming PB continued making non-Vocal display and ground slapping, LR appro									

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

ach ou and present to her, she inspected by touching and smell on the fingers.

KPC Behavior

DAY 18 MONTH 04 YEAR 09 OBSERVER _____ 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
1126	PB made non-Vocal displays chased OU and she fled screaming climbing a tree, and at the sametime OU and LR made waar-barks against PB.									
1130	PB	OU AL LR QT WL OT	OG AT AZ LO QV WC	NP OM OL	L/13				mgb	
1140	QT grooming PB									
"	OU grooming OG									
1142	chain groom PB → QT → OU → OG.									
1145	PB	OU AL LR QT WL OT	OG AT AZ LO QV WC	NP OM OL	L/13				mgb	
1151	Handclasp mutual groom OT ⇄ OG									Hcg
1152	OT groom OG after handclasp.									
1152	Handclasp mutual groom OT ⇄ OG									Hcg
1156	QT playing with QV by QT patting on him									
1156	OT and OG looking for honey from carpenter-bee in tree ~~tree~~ hole, OT breaks the stick and bites it with her teeth to dig in the honey, and OG also does the same by bitting with teeth.									
1200	PB	OU AL LR QT WL OT	OG AT AZ LO QV WC	NP OM OL	L/13				mgb	
1214	PB made non-Vocal displays and ground slapping chased OT and she fled silent.									

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

1129 YB and KK out of the party

KPC Behavior

DAY 18 MONTH 04 YEAR 09 OBSERVER SJ SM 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
1215	PB	OU AL LR QT WL OT	OG AT AZ QV LO WC	NP OM OL	13/KRD				RK	
1226	Hand clasp	Mutual groom	AT ⟷		AL					Hcg
1227	AT grooming AL after handclasp									
1228	chain groom AT → AL →				AZ.					
1229	PB approach AL she Pant-barked and Extend a hand to PB and PB Ignored.									
1236	PB	OU AL QT WL OT	OG AT AZ QV WC	NP OM OL	8/14				∅	
1231	OT grooming OG									
"	OU feeding FUR UF									
1232	PB made non-Vocal displays and ground slapping and some IOS made Pant-barks									
1235	PB made non-Vocal displays towards WL and WL chased PB and he fled making NVD and ground Slapping.									
1237	PB Made non-Vocal displays towards WL OU and AL and they retaliated chased PB while they all made water-barks and PB fled making NVD and ground slapping.									
1245	PB	OU AL QT WL OT	OG AT AZ QV WC	NP OM OL	4/23				∅	
1257	Chimps climbed into FCY # 004									

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

1226 LR (b) left the Party

KPC Behavior

DAY 18 MONTH 04 YEAR 09 OBSERVER ST. SMTW Found: C FT FFT (N) Other________

Time	AMM	AFF (include estrous)	JMM (Juveniles and Infants)	JFF (Juveniles and Infants)	Loc	F	SP	PT	MNK	BEH CODE
1300	PB	OU AL QT WL OT	OG AZ AT QV WC	NP OM OL	W/23	✓	FCY	RF	Ø	
1315	PB	OU AL QT WL OT	OG AZ AT QV WC	NP OM OL	"	✓	"	"	Ø	
1330	PB	OU AL QT WL OT	OG AZ AT QV WC	NP OM OL	"	✓	"	"	Ø	
1331	WL(WC) AT and others climbed down from FCY and separated									
1345	PB				W/28	✓	CAF	ML	Ø	
~~1345~~	PB				B/29	✓	"	"	Ø	
1400	PB				"	✓	"	"	Ø	
1415	PB				"	✓	THV	THV	Ø	
1418	OBS abandoned PB for he moved into elephant									
1738	OBS found OU and AL family plus NP on Travel									
	at H/900									
1740	AL OT OG and OM feeding on brown seed from fallen tree roots									
1744	Chimps moved into THV for feeding.									
1745		AL OT OU	OG AT AZ	OM OL NP	L/800	✓	THV	THV	Ø	
1800		OU AL OT	OG AT AZ	OM OL NP	"	✓	"	"	Ø	
1805	chimps coming out of THV.									
1807	OG feeding on CAF YL.									
1811	OM entered into an old nest, Tree of nest									
	Olea Height 24m									

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

1335 Other IDs disappeared into dense view and we remained with PB.

KPC Behavior

DAY 18 MONTH 04 YEAR 09 OBSERVER SJSM 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						
1812	OU entered into an old nest and improved									
	Ut. Tree of nest UVA, Height. 9m DBH 22cm									
1814	OG entered into an old nest and improved									
	Tree of nest, UVA Height 14m									
1815		OU AL OT	OG AT AZ	OM OL NP	A/GO				(1)	
1820	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