

Appendix A, B, & C

In this section I provide the three children's intransitive and transitive verbs that are divided based on their positions in a clause (non-final and final positions) and based on their initial sounds (consonant-initial and vowel-initial). The tables of the appendix follow a general format as illustrated with Table A.1 that represents Xhuw's Consonant-initial Intransitive Verbs in Non-final Position. Column 1 shows the child's age. Column 2 shows the verb forms (entire, without aspect, without absolutive, bare stem, and bare root), and column 3 show the verb types the child produced. The remaining columns represent the child's verb types in four types of clauses: indicative, nominalized, imperative, and dependent. The column for indicative context is further divided into other columns: incomplete, complete, and potential aspects. The column for nominalized context is also divided into other columns, e.g. *lanan*, *un*, which are responsible for nominalization. And the last two columns are the imperative and dependent contexts.

The tables are organized as follows:

Appendix A: Xhuw's intransitive and transitive verbs

Appendix B: Xhim's intransitive and transitive verbs

Appendix C: Tum's intransitive and transitive verbs

Table A.2. Xhuw's Vowel-initial Intransitive Verbs in Non-final Position

	verb forms	verb types	Indicative									Nominalized			Dependent			Imperative				
			incomplete			completive			potential			no context			A1	A2	A3	A1	A2	A3	A4	
age			A1	A2	A3	A1	A2	A3	A1	A2	A3	E1	E2	E3	A1	A2	A3	A1	A2	A3	A4	
1;9	entire																					
	-aspect																					
	-absolutive																					
	stem																					
	root																					
1;11	entire																					
	-aspect																					
	-absolutive																					
	stem	ak-ok																	2	1		
		ak-toq																			1	
		el-oq																			1	
		ten-ok																			1	
root	aj																		2			
	ok				1																	
2;0	entire																					
	-aspect																					
	-absolutive																					
	stem																					
	root																					
2;1	entire																					
	-aspect																					
	-absolutive																					
	abs > erg	ay												1								
	stem	i el-loq						1														
	root	ak																		2	1	
sik' aj																				1		
	ut				4																	
2;2	entire																					
	-aspect																					
	-absolutive																					
	abs > erg																					
	stem																					
	root	ak																			5	
		ay pis				1															2	
	ul				1															1		
2;3	entire	ay			1																	
		el			1																	
		un			3																	
	-aspect	el-loq										1										
	-absolutive																					
	abs > erg																					
	stem	ay pis-an																2				
		ay-*teq				1																
	ay-toq																			1		
root	ak																			5	4	
	ay pis																				1	
	el				3																	
	ok				2															1	2	
2;4	entire																					
	-aspect																					
	-absolutive																					
	abs > erg																					
	stem	ay-*an pis																			1	
		el-li							1													
		el-an																			1	
	root	el				1																
ok																		2				

Table A.4. Xhuv's Vowel-initial Intransitive Verbs in Final Position

age	verb forms	verb types	Indicative									Nominalized					Dependent			Imperative									
			incomplete			complete			potential			lanan					no context			Dependent			Imperative						
			A1	A2	A3	A1	A2	A3	A1	A2	A3	E1	E2	E3	E4	E5	E1	E2	E3	A1	A2	A3	A1	A2	A3				
1:9	entire																												
	-aspect																												
	-absolute																												
	stem																												
	root																												
1:11	entire																												
	-aspect																												
	-absolute																												
	stem	aj-teq																											1
		el																											1
		ok-i-'j				1																							
	root	ay-an pis																										5	
		ok				1																							
2:0	entire	oq'				2																							
	-aspect																												
	-absolute																												
	abs > erg																												
	stem	el																							1	2		1	
		ok																											3
	root	aj																								3			
		ok																										1	
2:1	entire	ul				1																							
	-aspect																												
	-absolute	aq' ok-oq																										2	
	abs > erg	ay															1												
	stem	ajwan																											1
		as tx'aj el-oq																											3
		ay pis							1	1																			3
		ay pis-an-oq								1																			
		el				1																							
		i el-oq																										1	
		jir el-oq																										1	
		ul				2																							
2:2	entire	oq'				1																							
	-aspect																												
	-absolute																												
	abs > erg																												
	stem	el puk'-lu'																								1			
	root	ay pis																											7
2:3	entire	ok				1																							
	-aspect	uj																											
	-absolute																												
	abs > erg																												
	stem	aj lek-an-oq																									1		
		ay pis																											2
		ay pis-an																											2
		el-teq				1																							
	root	aq' ok																											3
		ay pis-an																											1
		el				2																							
		ay																									1		
		ay pis																											2
2:4	entire																												
	-aspect																												
	-absolute																												
	3. abs > erg	elteq															1												
	stem	ay-*an chot-an																											2
	root	ay pis											3																1
		ay pum											1																

Table A.5. Xhuw's Consonant-initial Transitive Verbs in Non-Final Position

age	verb forms	verb types	Indicative												Imperative				Dependent			
			incomplete				complete				potential				E1	E2	E3	E4	E1	E2	E3	E4
			E1	E2	E3	E4	E1	E2	E3	E4	E1	E2	E3	E4								
1;11	entire																					
	-aspect																					
	-absolute																					
	-asp/-abs																					
	-ergative																					
	stem																					
	root	as say il-a'														1						
2;0	entire																					
	-aspect																					
	-absolute																					
	-asp/-abs	chi	1	1																		
		lo'	1	1																		
		pul		1																		
	-ergative																					
stem																						
root	lo'			3	1																	
2;1	entire																					
	-aspect																					
	-absolute																					
	-asp/-abs	b'on		2																		
		chi		2																		
		lo		2		1																
		pul-lu'		2																		
		tek'																				
	-ergative																					
	stem																					
root	lo'		1	1																		
2;2	entire																					
	-aspect																					
	-absolute																					
	-asp/-abs																					
	-ergative																					
	stem	jaq																				
	root	b'ut			1																	
		lo'			1																	
	entire																					
	-aspect																					
-absolute																						
-asp/-abs	jeq-la'			2																		
	lo'		1																			
-ergative																						
stem	lak-la'																					
	lek-la'																					
	mitx'-la'																					
root	b'ut																					
	lo'			3																		
	man																					
	mitx'		1																			
2;4	entire																					
	-aspect																					
	-absolute																					
	-asp/-abs	cha'							1													
		chi		1																		
		lo'							1													
	-ergative																					
stem	ja' saqach																				1	
	mitx'-la'																					
	toj man																				2	
root																						

Table A.6. Xhuw's Vowel-initial Transitive Verbs in Non-Final Position

age	verb forms	verb types	Indicative												Imperative				Dependent			
			incompletive				completive				potential				E1	E2	E3	E4	E1	E2	E3	E4
			E1	E2	E3	E4	E1	E2	E3	E4	E1	E2	E3	E4	E1	E2	E3	E4	E1	E2	E3	E4
1:11	entire	utej											1									
	-aspect																					
	-absolutive																					
	-asp/-abs																					
	-ergative																					
	stem	i ay-teq															1					
		as say il-a'															1					
	root	asi' i'															1					
		il															1					
2:0	entire																					
	-aspect																					
	-absolutive	il		1																		
	-asp/-abs																					
	-ergative																					
	stem																					
	root																					
2:1	entire	one-			4																	
	-aspect																					
	-absolutive																					
	-asp/-abs																					
		i'		4				1												1		
		il																		24		
		oche-			2																	
		toj il																				2
	-ergative																					
	stem	il																24				
	root	aq'															1					
		il															1					
2:2	entire	aq'			1																	
		one-			1																	
	-aspect	oche-		1																		
	-absolutive																					
	-asp/-abs																					
	-ergative																					
	stem	ab'-li																3				
		il															2	1				
		i-teq															1					
		i-toq															1					
	root	lo'			1																	
2:3	entire																					
	-aspect																					
	-absolutive																					
	-asp/-abs	aq'			2																	
		aq'-la'			1																	
		i		4																		
		il								6												
		il-la'			2																	
		iq'-la'		2	5																	
		i-teq			1																	
		toj aq'																			1	
		toj i																		1		1
		uk'			1																	
	-ergative																					
	stem	ab'															2					
		awte-															1					
		il-la'															2					
	root	i											1									
		il															3	3				
2:4	entire	il-la'			1																	
		one-*j			2																	
	-aspect																					
	-absolutive																					
	-asp/-abs	*toyin i																		1		
		aq'			1			1														
		i								1												1
		i-toq		2																		
		toj i																				1
		toj il																				
		ul i																		1		
	-ergative																					
	stem	ab'															2					
		il-la'															1					
	root																					

Table B.2. Xhim's Vowel-initial Intransitive Verbs in Non-final Position (Continued)

age	verb forms	verb types	Indicative												Nominalized						Imperative						Dependent									
			incomplete						completive			potential			lanan			no context																		
			A1	A2	A3	A4	A5	A6	A1	A2	A3	A1	A2	A3	A4	E1	E2	E3	E1	E2	E3	A1	A2	A3	A4	A1	A2	A3	A4	A1	A2	A3	A4	A5	A6	
2;9	entire	aj-teq														1																				
		ay chot														1																	1			
		ay pis														3														1						
		el			4									1																						
		el ul			2																															
		el ul																																2		
		ok ul			1																												1			
		uj			1																															
		une-			1																															
	- aspect	ay-toq			1																															
		el		1										1																						
		ok											1																							
	- absolutive	ok-toq						1																												
	abs > erg																																			
	stem	aj-ab'-toq			1																															
		aj-toq																										3								
		ay chot																									1									
		ay lek																									1									
		ay pis																									1	2							1	
		el																									2									
		i ay-teq																																	1	
		ochej ok-toq																																	2	
		ok-toq																									1									
	root	aj pak'naj			1																														1	
		ajk'ay		1																																
		ay												1																						
		ay chot-an						6																											3	
		ay ek'			1																														1	
		ay ok			1																															
		el			3																															
		el pum			3																															
		i aj																																	1	
		kan el												1																					1	
		ok			1																															
		ok ul													1																				1	
		uj			2																															

Table B.4. Xhim's Vowel-initial Intransitive Verbs in Final Position

age	verb forms	verb types	Indicative												Nominalized			Dependent			Imperative		
			incompletive			completive			potential			no context			A1	A2	A3	A1	A2	A3			
2;3	entire		A1	A2	A3	A1	A2	A3	A1	A2	A3	A4	E1	E2	E3	A1	A2	A3	A1	A2	A3		
	-aspect																						
	-absolutive																						
	stem	aj-toq			1																		
		aq' ok			1																		
	root																						
	-root																						
2;4	entire	el			1																		
		el ul										2											
		el ul																2					
		ok ul			2																		
		ok ul																	2				
	-aspect	el									1												
	-absolutive																						
	stem	*ek' ok																	2				
		aq' ay																	2				
		el									1												
		el-teq			2																		
		il ok																	1				
		muq ay																	2				
		ok			2																1		
		ok ul			5																		
		ok ul																	5				
		oq'																					
		tek' ay			1																		
	root	el ul																	2				
		el ul																	1				
2;5	entire	el			1																		
	-aspect																						
	-absolutive																						
	stem	aj-toq							1														
		aq' ok																	1				
		ay aj			1														1				
		ek' el																	2				
	root																						
2;6	entire																						
	-aspect																						
	-absolutive																						
	stem	ayj			1																		
	root																						
	-root																						
2;7	entire	aj			1																		
		el			1																		
	-aspect																						
	-absolutive																						
	stem	ay-toq			1																		
		toq' ay-teq																		2			
	root																						
2;8	entire	el ul			1																		
		el ul																	1				
	-aspect	ay-teq	1																				
		toj							1														
	-absolutive																						
	abs > erg														1								
	stem	aq' ok																	1	1			
		aq' ok-toq																	2				
		aw-j			1																		
		ay ay																	1				
		ay b'atx-an									2												
		ay ek'																	1				
		ay-toq			1																		
		el			1																1		
		i aj																	1				
		jitz ay-teq																	1		1		
		jo' el																	1				
	root	aq' aj																	1				
2;9	entire	aj-toq										2											
		ay lek											1						1				
	-aspect	aj-toq											1										
	-absolutive																						
	abs > erg																						
	stem	ay ek'																	1				
		ay ok-toq			1														1				
		i aj																	1				
		ten ay-toq																	1				
	root																						

Table B.5. Xhim's Consonant-initial Transitive Verbs in Non-final Position

age	verb forms	verb types	Indicative												Nominalized								Imperative				Dependent						
			incomplete				completive				potential				foco		no context																
			E1	E2	E3	E4	E1	E2	E3	E4	E5	E6	E1	E2	E3	E4	E1	E2	E3	E1	E2	E3	E4	E1	E2	E3	E4	E5	E1	E2	E3	E4	
2;3	entire																																
	-aspect																																
	-absolutive																																
	-asp/-abs	man	1																														
	-ergative																																
	stem	man			2																												
	root	maq' ten-oi man ten			1 2																											1	
2;4	entire																																
	-aspect																																
	-absolutive																																
	-asp/-abs	ten				1																											
	-ergative																																
	stem	lak man	1																														
	root	mitx' ch'at chi' lak lo' man maq' tek' ay toq' toq' ay	1 1 1 1 1 1 1 1 1		1 2 1										1 2 1 1																		
	2;5	entire																															
		-aspect																															
		-absolutive																															
-asp/-abs																																	
-ergative																																	
2;6	entire																																
	-aspect																																
	-absolutive																																
	-asp/-abs	ten	1																														
2;7	entire																																
	-aspect																																
	-absolutive																																
	-asp/-abs	lak lo' mitx' ten toq' ay	1 1 1 1 1		1 1 3																												
2;8	entire																																
	-aspect																																
	-absolutive																																
	-asp/-abs	chip koj lo' man mitx' poj q'an sik' ten-on	1 1 1 1 1 1 1 1		1 1											1																	
	-ergative																																
	stem	man-on																															
	root	lo' man tek' toq' ay-toq	1 1 1 1												1 3																		
	-ergative																																
	stem	as sik' aj b'ut cha chi' jitz ay-teq lak aj lo' man maq' poj g'ol toq' t'un aj tz'aq																															

Table B.5. Xhim's Consonant-initial Transitive Verbs in Non-final Position (Continued)

age	verb forms	verb types	Indicative												Nominalized								Dependent									
			incomplete				complete				potential				foco				no context				Imperative									
			E1	E2	E3	E4	E1	E2	E3	E4	E5	E6	E1	E2	E3	E4	E1	E2	E3	E1	E2	E3	E4	E1	E2	E3	E4	E1	E2	E3	E4	
2;9	entire																															
	-aspect																															
	-absolutive																															
	-asp/-abs																															
		lo'	3			1																										
		q'an	1																													
		ten ay	1																													
	-ergative																															
	stem	jitz-teq																														
		jitz-toq																														
		majane-																														
		tek'																														
	root	k'ex									1																					
		man																														
		mitx'				1																										
		q'an				1																										
		tek'				1																										
		txon				1																										
		tz'ub'				2																										

Table B.6. Xhim’s Vowel-initial Transitive Verbs in Non-final Position

age	verb forms	verb types	Indicative												Nominalized						Imperative				Dependent								
			incomplete			completive			potential			ul			wal			no context															
			E1	E2	E3	E4	E5	E6	E1	E2	E3	E1	E2	E3	E1	E2	E3	E1	E2	E3	E1	E2	E3	E1	E2	E3	E4	E1	E2	E3			
2:3	entire																																
	-aspect																																
	-absolutive																																
	-asp/-abs																																
	-ergative	uk'e	1																														
	stem																																
	root																																
2:4	entire	al				1																											
		aq'			1																												
		il-'la'			1																												
	-aspect	il	1																														
	-absolutive																																
	-asp/-abs	al	1								1																						
		aq'	2																														
		aq'.aj	1																														
		aq'.ok				1																											
		i	1			1																											
		il	5			1																											
		iq		1			1																										
		ul i																															
	-ergative	ab'									1																						
		aq'				1																											
	iq				1																												
	stem	ab'																						2									
	il																						3				4						
	iq																						1										
	root	aq'				1																											
	iq																							1									
2:5	entire	aq'			1																												
		il			1																												
		i-toq			2																												
	-aspect	il			1																												
	-absolutive																																
	-asp/-abs	aq'	1		1	3																											
		il			1																												
		i-toq			1																												
		une-			1																												
	-ergative																																
	stem	il			1																												
	root	aq'.ok																							1								
	toj il																																
2:6	entire	une-			2																												
		aq'			2						1																						
		i-toq			1																												
	-aspect																																
	-absolutive																																
	-asp/-abs	aq'			4																												
		i			3																												
		i-toq			1																												
		une-				1																											
	-ergative																																
	stem	uk'																															
		i-toq																															
		root																															
2:7	entire	aq'			1	1						1																					
		il			1																												
	-aspect																																
	-absolutive																																
-asp/-abs	aq'.ay			1																													
	aq'			1																													
	aq' ten el			1																													
	il			2																													
-ergative																																	
stem																																	
root	ab'																																
2:8	entire	aq' poi				2																											
		aq' pul				2																											
		aq'.aj			1	1																											
		aq'.ok			1																												
		il					1					1																					
	-aspect	une-			4																												
		al-on																															
		aq'-on																							1								
	-absolutive																																
	-asp/-abs	aq'.ay																															
		aq'.ok			2																												
		aq'.poj				1																											
		aq'-toq			1																												
		i			2																												
		i aj			1																												
		i el			2																												
		i-teq			2																												
		il			17			3	8																								

Table B.6. Xhim's Vowel-initial Transitive Verbs in Non-final Position (Continued)

age	verb forms	verb types	Indicative									Nominalized						Imperative				Dependent								
			incomplete			completive			potential			ul		wal		no context														
2;9	entire	al	E1	E2	E3	E4	E5	E6	E1	E2	E3	E1	E2	E3	E1	E2	E3	E1	E2	E3	E1	E2	E3	E1	E2	E3	E4	E1	E2	E3
		aq'			1																									
		i									1																			
		il				1																								
		une-			8																									
		ut				1																								
	-aspect	i kan el									2																			
	-absolute																													
	-asp/-abs	al	1		1																									
		aq'							2																					
		aq'.aj				1																								
		il	6				1																							
		iq				2																								
		i-toq				1																								
		oche-					2																							
		ojtaq	1																											
		ut									2																			
	stem	ab'																												
		aq'-toq																												
		il																												
		i-teq																												
		i-toq																												
	root	i ay-teq																												
		oche-				2																								
		al									1																			
		il																												

Table B.7. Xhim's Consonant-initial Transitive Verbs in Final Position

age	forms	verb types	Indicative									Nominalized									Imperative			Dependent									
			incomplete			completive			potential			tay			foco			watx'			kaq la			no context			E1	E2	E3	E1	E2	E3	
			E1	E2	E3	E4	E1	E2	E3	E1	E2	E3	E1	E2	E3	E1	E2	E3	E1	E2	E3	E1	E2	E3	E1	E2	E3	E4	E1	E2	E3	E1	E2
2:3	entire	lo'		1																													
	-aspect																																
	-absolutive																																
	-asp/-abs	maq'		1																													
		ten		2																													
	-ergative																																
	stem	b'ut																															
		i-teq																															
		iaq																															
		man			1																												
2:4	entire																																
	-aspect																																
	-absolutive																																
	-asp/-abs	toj cha'				1																											
	-ergative																																
	stem	lak																															
		majane-		1																													
		man							1																								
		maq'																															
		sik'		1																													
root	tek'																																
	ch'at			1																													
2:5	entire																																
	-aspect																																
	-absolutive																																
	-asp/-abs	cha'		1																													
		pol		1																													
		txal																															
	-ergative																																
	stem																																
	root																																
	2:6	entire																															
-aspect																																	
-absolutive																																	
-asp/-abs		man					1																										
		tx'um		1																													
-ergative																																	
stem		man					1																										
		man-on														2																	
		maqche-																															
		mitx'																															
root	ten																																
2:7	entire																																
	-aspect																																
	-absolutive																																
	-asp/-abs	lak		1																													
		tek'		1																													
	-ergative																																
	stem																																
	root	lo'			1																												
		man				1																											
		toq'				1																											
2:8	entire	lo-w		1																													
	-aspect																																
	-absolutive																																
	-asp/-abs	cha'					1																										
		chi'		1																													
		koj		1																													
		lak		1																													
		lo'		1																													
		man					1	1																									
		q'an							1																								
-ergative																																	
stem	lak		1																														
	nul-on																								1								
root	lo'																																
2:9	entire	na'		1																													
		lo'		1																													
	-aspect																																
	-absolutive																																
	-asp/-abs	man					2																										
		ten-on																		1		1		1									
	-ergative																																
	stem	man-on														1																	
		txon-j-oq																															
	root																																

Table B.8. Xhim’s Vowel-initial Transitive Verbs in Final Position

			Indicative											Imperative			Dependent			
age	forms	verb types	incomplete				complete			potential				E1	E2	E3	E1	E2	E3	4
			E1	E2	E3	E4	E1	E2	E3	E1	E2	E3	E1	E2	E3	E1	E2	E3		
2:3	entire	il		1																
		al		1																
		une-			1															
		-aspect																		
		-absolutive																		
		-asp/-abs	il	3																
	-ergative stem	i-teq												3						
	ul il																		2	
	root																			
2:4	entire	ab'		2																
		il		1		3		1												
		-aspect																		
		-absolutive																		
		-asp/-abs	il	9		1														
		-ergative stem	toj il																	1
		oche-ab'		1																
		iq-lay				1									30					
	il		2																	
	i-toq												1							
	root																			
2:5	entire																			
		-aspect																		
		-absolutive																		
		-asp/-abs	i-toq	5		1														
		il		7																
	-ergative stem	ab'											1							
	i-teq												4							
	root																			
2:6	entire																			
		-aspect																		
		-absolutive																		
		-asp/-abs	il	1		1														
	-ergative stem	i-teq											1							
	root																			
2:7	entire	al	1																	
		aq'				1														
		il			1															
		une-			1															
		-aspect																		
		-absolutive																		
		-asp/-abs	aq'	1																
		il		1																
		oche-		3						1										
		uk'e-								2										
		-ergative stem																		
	root																			
2:8	entire	il	1																	
		une-		2																
		-aspect																		
		-absolutive																		
		-asp/-abs	aq'	3																
		il		3																
		al		1		1														
		aq'-toq		1																
		oche-		1																
		i-toq				1														
		i		1																
		-ergative stem	aq'											1						
		i-teq												2						
	ab'												4							
	il												1							
	aq'-toq												1							
	root																			
2:9	entire	i'							1											
		il				1														
		al			1															
		-aspect																		
		-absolutive																		
		-asp/-abs	il			1				1										
		oqtaq		1																
		toj i'															1			
	toj il															1				
	-ergative stem	il											1							
	i-toq												1							
	i-teq												1							
	root																			

Table C.1. Tum's Consonant-initial Intransitive Verbs in Non-final Position

age	verb forms	verb types	Indicative												Nominalized								Imperative			Dependent					
			incomplete						complete						potential		ax				no context				A1	A2	A3	A4	A1	A2	A3
			A1	A2	A3	A4	A5	A6	A1	A2	A3	A4	A5	A6	A1	A2	A3	A4	E1	E2	E3	E4	E1	E2	E3	E4	A1	A2	A3	A4	A1
2;7	entire																														
	-aspect					1																									
		b'et																													
		man-j	1																												
		pum	1																												
		q'anjab'	1																							1					
		toj	3																												
		xiw	2																												
	-absolute																														
	abs > erg																														
	stem	toj																											2		
		q'aj						1																							
		tzeb'ach																									5				
	root	toj			1																										
2;8	entire	q'aj										1		3																	
	-aspect	chot	3																												
		kam	1																												
		kan	1																												
		toj	6									1	1	7																	
	-absolute																														
	abs > erg																														
	stem	kam			1																										
		toj																												4	
		tzeb'ach																									4				
		way																									1				
	root	pum			1																										
		faq			1																										
		tit			1																										
		toj			8																										
		toj il			2																							1			
		tz'in																									1				
		way			1																										
		xiw			1																										
2;9	entire	lo-w												1																	
	-aspect	lo-w	1																												
		toj	2										1		1																
		tx'aj-w	1		1																										
	-absolute																														
	abs > erg																														
	stem	chi-lay ay-toq			1																										1
		kan																									1				2
		lin-an aj																													
		lo-w			3																										
		tzeb'ach																									2				
	root	watx'-j			4																										
		mulnaj			1																										
		noj			1																										
		q'anjab'			1																										
		tit			2									1																	
		toj			5																										
2;10	entire	b'et			1																										
		tit															1														
		way			1			1																							
	-aspect	b'et	1																												
		kam									1																				
		lo-w	1																												
		q'anjab'			1																										
		toj											1																		
		way	1																												
	-absolute																														
	abs > erg																														
	stem	ch'akay			1																										
		ay-an chot																										1			
		ch'ich-lay			1																										
		el k'otnaj								1																					
		jay ok-oq														1															
		kaj-an																													3
		lo-w											1																		
		muq ay-oq																													1
		tel-an																													1
		toj																													
		r'un *aj																													1
	root	txon-j								2																					
		aj tel-an			1																										1
		ay tel-an aj																													2
		b'et			1																										
		je'			1																										
		kus			1																										
		ok kan																													1
		tit			2																										
		toj			1									2																	

Table C.2. Tum’s Vowel-initial Intransitive Verbs in Non-final Position

age	verb forms	verb types	Indicative												Nominalized											Imperative						Dependent									
			A1	A2	A3	A4	completive	A1	A2	A3	A4	A5	A6	potential	A1	A2	A3	A4	pum	E1	E2	E3	E1	E2	E3	tzet	ax	E1	E2	E3	E1	E2	E3	E1	E2	E3	A1	A2	A3	A4	A5
2:7	entire	ay-toq			1																																				
		ok ul			1																																			1	
	-aspect	aj ok											1																												
		aw-j	1				1																																		
	-absolute																																								
	abs > erg	aj-toq						1																																	
	stem	ek' aj																					1																		
	root	al ok																																					2		
		aq'.ok																																					1		
		as i																																					1		
		ok			1																																				
	oq'			1																																					
	ul sik'																																			1					
2:8	entire	ay ul			2																																		2		
		ok			1																																				
		oq'			1																																				
	-aspect	ante-lay											1																												
		ay-oq												1																											
		ay-teq	1																																						
		ok ul	2																																						
		oq'					1																																		
	-absolute																																								
	abs > erg	oq'																																				1			
		oq' aj																																				1			
	stem	ay ay			1																																				
		ay-toq			1																																				
		oq'			1																																				
root	aj			1															1																						
	ay aj-toq			2																																					
	ay ek'-oq																																					1			
	ek'aj			1																																					
	el			1																																					
	k'ub' el			1																																					
	oq'			1																																					
	ul il																																					1			
2:9	entire	aj			1																																				
	-aspect																																								
	-absolute																																								
abs > erg																																									
stem	chi-lay ay-toq			1																																		1			
	lin-an aj																																					2			
root	aj ul-oq			1																																					
	ya' ay			1	1																																				
2:10	entire	aj			2																																				
		ay			1																																				
		el			1																																				
		ok-toq			1																																				
	-aspect	ok-toq	1																																						
	-absolute																																								
	abs > erg	ok kan																																				1			
	stem	aq'.ay-toq																																				3			
		ay-*an chot																																							
		ch'akay			1																																				
		el k'otnaj					1																																		
		jay ok-oq												1																											
		k'ex el																																				1			
		muq ay-oq																																				1			
		ok-toq														1																									
	root	aj			1																																				
		aj tel-an			1																																		1		
		aq'.aj																																				2			
	ay tel-an aj																																				2				
	ay-toq			1																																					
	ok																																			2					
	ok kan																																					1			

Table C.2. Tum’s Vowel-initial Intransitive Verbs in Non-final Position (Continued)

	age	verb forms	verb types	Indicative												Nominalized												Imperative			Dependent							
				incomplete			complete			potential			pum			ow			tzet			ax			no context			A1	A2	A3	A1	A2	A3	A4	A5	A6		
3:1	entire	aj-toq													1																							
		ek'-toq					2																															
		ok													1																							
		okapn					1																															
		-aspect	aj-toq												1																							
			ay chot												1																						1	
		-absolute																																				
		abs > erg	ok																																	1		
		stem	aj-teq																																			
			aq'-lay				1																															
			ay aj-toq				2																														2	
			ay chot-an				1								1																						2	
			ay-toq				1	1																														
			i el-teq																																		1	
			lek-an aj																																		1	
			lok-an aj																																		10	
			ol'-chaj																																			
			f'ir-an el																																		2	
			toj ay-toq				1																														1	
	root		al aj																																		1	
			aq'-aj																																		2	
			aq'-ay																																		1	
			aq'-ok																																		10	
			ay aj-toq																																		1	
			ay chot-an																																		1	
			ay ek'				1																													4		
			ay ok				1																													3		
			ay ok-toq																																		1	1
			el				2																														2	
			k'ex el																																		3	
			man ok																																		1	
			ok																																		9	
			oq'																																		1	
			sek el																																		1	
			ten ok																																		1	
			toj ay-toq																																		1	
			tx'um ok																																		1	
			ul				1																														1	
			ul tx'ox																																		1	

Table C.3. Tum's Consonant-initial Intransitive Verbs in Final Position

age	verb forms	verb types	Indicative												Nominalized									Imperative				Dependent							
			incompletive			completive						potential			kax			je'			watx'			lanan			A1	A2	A3	A4	A1	A2	A3		
			A1	A2	A3	A1	A2	A3	A4	A5	A6	A1	A2	A3	A4	E1	E2	E3	E1	E2	E3	E1	E2	E3	E1	E2	E3	A1	A2	A3	A4	A1	A2	A3	
2:7	entire																																		
	-aspect	kam	1	2																															
		kan										1																							
		pum	1																																
		q'aj		1																															
		toj	1																																
		xiw	2																																
	-absolutive																																		
	abs > erg																																		
	stem	poj											1																						
		toj																															1		
	root	tit			1																														
		t'ob'			1																														
2:8	entire	b'et					1																												
		toj	1																																
	-aspect	b'et	2																																
		kan	1		1																														
		pum	3																																
		toj											2																						
		xiw	1																																
	-absolutive																																		
	abs > erg																																		
	stem	nis tz'a																																	
		toj			1																														
		ton																																1	
		tz'il-lchaj			2																														
		xiw			1																														
	root	tit			1																														
2:9	entire	tx'aj-w			1																														
	-aspect																																		
	-absolutive																																		
	abs > erg																																		
	stem	lin-an aj																																2	
		toj			1																														
	root																																		
2:10	entire	b'ey			1																														
	-aspect	b'et	1																																
		q'anjab'	1																																
	-absolutive																																		
	abs > erg																																		
	stem	aj tel-an-oq						1																											
		aj tel-an-oq																																	
		ay tel-an aj																																	1
		ay tel-an aj																																	1
		ay-an chot																																	1
		ay-an chot																																	
		b'is-l																	1																
		chi-waj						1																											
		el k'otnaj						1																											1
		kam-naq																																	
		k'is-l											1																						
		k'otnaj						1																											
		lo-w						5																											
		nik'-chaj						1																											
		toj						1																											
		tzew						1																											
		way						1																											
	root	q'anjab'			1																														
		t'uq			1																														
2:11	entire	saqch											1																						
	-aspect	aj-toq											1																						
		saqch	1																																
		t'unaj	1																																
	-absolutive																																		
	abs > erg	q'anjab'																																	
	stem	ay chot-an																																	2
		kan																																	
		laj																																	
		toj			1																														
		tx'aj el																																	1
		tx'aj-lay			1																														
		tzeb'-ach																																	
	stem	toj																																	
	root	el pum			1																														1

Table C.5. Tum's Consonant-initial Transitive Verbs in Non-final Position (Continued)

age	verb forms	verb types	Indicative												Nominalized																						
			incompletive						completive				potential		lanan				foco				kax				no context				Imperative						
			E1	E2	E3	E4	E5	E6	E1	E2	E3	E4	E1	E2	E3	E4	E1	E2	E3	E4	E1	E2	E3	E4	E1	E2	E3	E4	E1	E2	E3	E4	E1	E2	E3	E4	
2:11	entire	chi	1	1																																	
		lo'										11	1																								
		q'an			1																																
		-aspect																																			
		-absolutive																																			
		-asp/-abs	chi				1																														
		lo'																																			
		lotze-		3																																	
		mitx'		1																																	
		q'oq koj		1																																	
		tuq-toq		1																																	
		tx'aj el		1																																	
		txon				6																															
		tx'ox				3																															
		-ergative																																			
		stem	lo-w												1																						
		root	mitx'																																		
			k'ub'ej ay																																		1
			k'up																																		1
			lo'																																		1
			man				2															1															
			maq' ay																																		1
			maq' el																																		1
			paltx'une-																																		1
			q'oq				1																														
			txon				1																														
3:0	entire																																				
		-aspect																																			
		-absolutive																																			
		-asp/-abs	ch'ich				1																														
			txulej-toq																																		
			tz'ub' el				1																														
		-ergative																																			
		stem	ch'ich-on																																		
		root	k'ab'aj				1				1																										
			lo'				1																														
3:1	entire	chi					2																														
		k'ub'e-																																			
		laq'					1																														
		lo'					2																														
		q'an					1																														
		sek el																																			
		-aspect																																			
		-absolutive																																			
		-asp/-abs	k'ex el				1								1																						
			k'ub'ej				1																														
			lo'				3				2		2																								
			lo-w																																		
			man-on																																		1
			maqche-																																		
			txulej				1																														
			tx'um																																		
			tz'aq ok																																		
		-ergative	jaq				2																														
		stem	k'ab'aj																																		
		root	jeq													1																					
			k'ex															1																			
			k'ub'ej aj				1																														
			laq'lej																																		1
			lo																																		
			q'an																																		
			ten ok																																		
			toj tx'aj																																		
			tx'ox																																		
			tx'um ok																																		
			tz'aq																																		
			ul tx'ox																																		1

Table C.6. Tum's Vowel-initial Transitive Verbs in Non-final Position

age	verb forms	verb types	Indicative												Nominalized												Imperative				Dependent					
			incomplete						completive						potential						foco		xew tu		kax		no context				Imperative				Dependent	
			E1	E2	E3	E4	E5	E6	E1	E2	E3	E4	E1	E2	E3	E4	E1	E2	E3	E4	E1	E2	E3	E4	E1	E2	E3	E4	E1	E2	E3	E4	E1	E2	E3	E4
2:7	entire	i'											1																							
		une-		2																																
	-aspect																																			
	-absolutive																																			
	-asp/-abs	aq'	1																																	
		aq'aj	2																																	
		aq'ok	2																																	
		iq											1																							
		uk'e-	1																																	
	-ergative	i'									1																									
	stem																																			
	root	al ok																											1							
		aq'																											1							
		aq'aj-toq																											1							
		as i'																											1							
		il																											1							
		uk'											1																							
2:8	entire	aq'									1																									
		il		1																																
		iq											2																							
		oche-											1																							
		uk'											1																							
		une-		1																																
	-aspect																																			
	-absolutive																																			
	-asp/-abs	al			1																															
		aq'	1									1																								
		i'	1									1																								
		il	1																																	
		i'-on										1																								
		iq										2																								
		i-toq	1										1																							
		oche-		1																																
		toj il																																		2
		uk'e-	1																														1			
	-ergative																																			
	stem	aq'ok																															1			
		echb'ene-																															2			
		il																															1			
		i-teq																															4			
	root	aq'																															2			
		i																															2			
		il																															3	1		
		ul il																															1			
2:9	entire	une-		1																																
	-aspect																																			
	-absolutive																																			
	-asp/-abs	al	1																																	
		aq'			1																															
		i-teq	6		1							1																								
		uk'			1																															
	-ergative	i-teq											1																							
	stem	aq'-on																		1																
		i-teq																															6			
	root	il																															1			
		*ul il																															1			
2:10	entire																																			
	-aspect																																			
	-absolutive																																			
	-asp/-abs	ante-			1																															
		aq'ay	2																																	
		aq'ok	2																																	
		il			1																															
		iq av			1																															
		i-toq			1																															
		oche-			1																															
		une-	1																																	
	-ergative	uk'			1																															
	stem	ab'i																															1			
		i-teq	</																																	

Table C.6. Tum's Vowel-initial Transitive Verbs in Non-final Position (Continued)

age	verb forms	verb types	Indicative												Nominalized						Imperative				Dependent							
			incomplete						complete			potential			foco		xew tu		kax		no context		E1		E2		E3		E4			
3:0	entire		E1	E2	E3	E4	E5	E6	E1	E2	E3	E4	E1	E2	E3	E4	E1	E2	E3	E4	E1	E2	E3	E4	E1	E2	E3	E4	E1	E2	E3	E4
	-aspect																															
	-absolutive																															
	-asp/-abs	aq'	1																													
		aq' kan	1																													
		aq'-toq	1																													
	-ergative stem																															
	root																															
3:1	entire	al	1																													
		aq'							1		2																					
		aq'.ok		1																												
		aq'-on															1															
	-aspect																															
	-absolutive																															
	-asp/-abs	al aj	1								1																					
		antej	1																													
		aq'		1																												
		aq'.aj	1																													
		aq'.ay	2																													
		aq'.ok	4								2	3																				
		aq'le-					1																									
		i'								1	1																					
		i el-teq		1																												
		il						1				1																				
		i-on																1					1									
		iq										1																				
		toj i	1																													
		toj il	2		1	1																										
		uk'e-	1																													
	-ergative stem	al		1																												
	root	il																											1			

Table C.7. Tum's Consonant-initial Transitive Verbs in Final Position

age	verb forms	verb types	Indicative									Nominalized									
			incomplete				completive			potential		foco			no context			Imperative			
			E1	E2	E3	E4	E1	E2	E3	E1	E2	E3	E1	E2	E3	E1	E2	E3	E1	E2	E3
2:7	entire																				
	-aspect																				
	-absolutive																				
	-asp/-abs	chi'	2																		
		lo'	1			1															
		man	1																		
		maq'	6		3																
		mitx'	1																		
		poj	1																		
		tek'	1																		
		txon	1																		
		-ergative																			
		stem	mitx'		3																
	root	lo'			1																
2:8	entire	lak								1											
	-aspect																				
	-absolutive																				
	-asp/-abs	chel	2																		
		chi		2																	
		lo'	5																		
		man	1																		
		maq'	1																		
		nik'	1																		
		toq'	1																		
		-ergative	chi								1										
		stem	man-on											1			1				
		root	maqche-																	2	
2:9	entire	jeq									1										
	-aspect																				
	-absolutive																				
	-asp/-abs	lo'	1																		
	-ergative																				
	stem	maq'-on												1							
	root	lo'			1																
2:10	entire	chi'								3											
	-aspect																				
	-absolutive																				
	-asp/-abs	lo'	1																		
	-ergative																				
	stem	tx'aj el								1											
	root	q'an			1																
2:11	entire	chi	2																		
	-aspect																				
	-absolutive																				
	-asp/-abs	lo'	5																		
	-ergative	lo-hon														1					
	stem																				
	root																				
3:0	entire																				
	-aspect																				
	-absolutive																				
	-asp/-abs																				
	-ergative																				
	stem																				
	root																				
3:1	entire	chi	1				2														
	-aspect	lo'	2																		
	-absolutive	q'an	1																		
	-asp/-abs	q'ut				1															
	-ergative																				
	stem	q'an-on												1							
	root	lo'			1																

