# Verb Classes and Verbal Suffixation in Nawdem

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#### 1 INTRODUCTION

Nawdem, a language of the Gur family, has a verbal system divided primarily along the lines of aspect. That is, verbal forms may generally be classified into perfective forms, which encode the idea of completion of actions, and imperfective forms, which do not imply completion. The production of these forms further divides the verbal system into two classes of verbs, as will be seen. In this paper it is proposed to examine the verbal morphology of Nawdem, to examine how the various forms of a given verb are produced, and to show how knowledge of one verb form can be used to predict the remaining verb forms for any given verb. The study here is limited to the morphology of individual verbs, together with some of their segmental phonology, and does not extend to the pattern of verbal auxiliaries and to tonal alternations.

#### 2 VERB CLASSES

Nawdem seems to have two major groupings of verbs, as evidenced by the formation of perfectives and imperfectives. These groups will be referred to under the names "Class I" and "Class II." Class I is characterized by perfective forms ending in -ra, as opposed to Class II, in which perfectives end in -e. The distinction between these classes is not arbitrary, but rather seems to be one of phonology. The evidence for a phonological distinction is as follows<sup>1</sup>:

• Given any arbitrary verb from Class I, its negated imperfective and perfective forms are identical, except in a few suppletive verbs (such as *eat*) that can be taken to be derived from multiple stems. These

<sup>&</sup>lt;sup>1</sup>This evidence can be verified by viewing the verb chart for imperatives, on page 6, and the chart for imperfectives and perfectives, on page 8.

negated forms are reduced with respect to the non-negated imperfective and perfective forms.

- Given a verb from Class II, its negated imperfective and perfective forms differ from each other with respect to their final vowel (the negated Class II imperfective and perfective forms generally end in a vowel, although the perfective -e can optionally be dropped), which is predictably -a for imperfectives and can be -e or -a for imperfectives.
- Negated imperfective and perfective forms of Class II are not reduced with respect to the non-negated forms, except for the so-called "VP /n/", which is added to the non-negated forms in both classes.
- Class I negated forms generally end in a vowel as well, but the nature of the vowel is unpredictable. Exceptions are *baw* ("steal") and *ham* ("mix"), which will be examined below.
- Class I imperatives have only a single form, which ends in a vowel (except for *baw* and *ham*, as before).
- Class II imperatives resemble Class II negated perfectives, and may similarly end in -e or -a.

The fact that Class I negated forms are reduced with respect to the non-negated forms, together with the fact that their final vowels are unpredictable and the fact that their perfective and imperfective forms are identical, indicates that these forms reflect the underlying stem from which the other verb forms are produced. The Class II negated forms, on the other hand, are characterized by predictable final vowels, which can be taken as evidence that the vowels are added to a consonant-final stem. Thus it is reasonable to conclude that Class I is comprised of verbs whose underlying stems end in a vowel, and Class II is comprised of verbs whose underlying stems end in a consonant.

There are, however, a number of problems for this analysis. First of all, the verb baw ("to steal"), which acts as a member of Class I, seems to end in a consonant. However, when this verb is placed in a relative clause, the imperfective form shows up as bawo:

(1) bǐ: bèm báwò bǐ: what you+n-rel steal-impf it(be)+spec what you are stealing Relative clause imperfectives of Class I verbs are generally the bare imperfective stem. This form suggests that the stem for "to steal" might be underlyingly /bawo/ or /bao/, which cannot surface as such due to phonotactic constraints forbidding onsetless syllables and forbidding sequences of unrounded and rounded vowels separated only by glottal stops.

Another problematic case is the verb *ham* ("to mix"). Here this might be a mistranscription of *hamo*, as there was early disagreement over whether to transcribe the reduced vowels that appear in certain words after nasals, resolved in favor of not transcribing them. As support for this position, the non-negated perfective form of this verb is *hamora*.

Finally, the verbs identified as "Class II.2", that is, fuwa ("blow"), taz / to ("give"), laz/loa / lo/loa ("put in"), and tarowa/taro seem as though they might have vowel-final stems. However, they can be analyzed as being underlyingly /w/-final, as evidenced by the existence of imperfective forms fuwa, towa, lowa, and tarowa. The perfective forms can be explained by dropping of final /e/, and the imperfective forms laz and taz can be explained by hypothesizing a reduction of the initial syllable in lowa and towa, followed by deletion of [w] from the illegal sequences [lw] and [tw].

### 2.1 Verbal Sub-classes

Each verb class has been divided into three subclasses according to minor differences in the formation of perfectives and imperfectives. Inconsistencies in the data for the Class I verbs, together with the general poverty of the data there forbids an analysis of those differences. In Class II we have already seen the subclass II.2, which is characterized by verb stems ending in /w/. All Class II verbs are characterized by perfectives ending in /-e/ and imperfectives ending in /-a/. Class II.3 verbs can be distinguished from Class II.1 and Class II.2 verbs in virtue of the fact that their perfective forms end in /-ege/. In general, the subclasses of Class II can be distinguished from one another on phonological grounds. In particular, verb stems ending in /d/, /t/, or /l/ fall into Class II.3, stems ending in /w/ fall into Class II.2, and all other consonant-final verb stems fall into Class II.1.

#### 2.2 Repeated and Once Verbs

Some Nawdem verbs belong to two classes simultaneously. For any given verb of this type, half of its forms will belong to class II.3, and the other half will be members of Class I or Class II.1, depending upon the verb. The forms in class II.3 denote single actions—single performances of an action or

performance of the action upon a single object—and the other forms denote multiple actions or multiple objects. The following evidence bears upon the matter:

- All recorded *once* verbs appear to have stems ending in /-d/, as evidenced by their imperfective forms: wa?ada, bugəda, se?eda, togəda, and gbuda. An apparent exception is dzita, which has a surface [t].
- The repeated forms for these verbs lack the /d/ ending, except for dʒita, which will be examined later. The repeated forms can be divided into two groups: dʒide, wa?a, toge, and gbu, which are Class I verbs, and se?er and bugur, which are Class II.1 verbs.

These data can be analyzed by hypothesizing that the repeated forms are basic, and that the single-action forms are produced by adding /-d/ to the stem of the repeated verb, thus resulting in a Class II.3 verb. Complications then arise due to the phonology. In repeated verb stems ending with /r/, the following phonological rule applies:  $r \to \emptyset / \underline{d}$ , thus explaining selection and bugur. A similar rule is active in the Class I perfectives:  $d \to r / \underline{\hspace{0.2cm}}_{\sigma}$ r. This rule helps to explain why the imperfective form kude alternates with perfective kurra. A feeding rule is needed, however, to set up the [dr] environment, one that deletes vowels between certain coronal clusters something like the following:  $e \to \emptyset / d_{-}[+coronal]$ . This rule can be seen independently in the perfective form [dra] ("has eaten") from underlying /de+ra/. Given these rules, we can hypothesize that the underlying stem for "to cut repeatedly" is /dzide/ (this form can be seen in the imperative), that the addition of /-d/ to form the single action form of the verb produces [dʒided], which is simplified to [dʒidd], which is in turn simplified to [dʒit] by another rule:  $dd \rightarrow t$ .

#### 3 FORM-BY-FORM ANALYSIS

The information presented above allows us to determine the underlying stem for most verbs. We now turn to the problem of producing the various surface forms given the underlying form.

#### 3.1 Imperatives

Imperatives are formed from the perfective stem of the verb, for verbs with more than one underlying stem. If the stem ends in a vowel, the imperative is exactly the underlying stem. Otherwise, /-e/ or /-a/ can be added to the

stem (/-e/ is optionally dropped). Imperatives suffixed with /-a/ cannot take objects. For verbs of class II.3, the imperative is formed by suffixing /-eg/ to the verb stem, then adding /-e/ or /-a/.

### 3.2 Imperfectives

Imperfectives of Class I.1 (the other subclasses are marginal and data is lacking) are formed differently depending on the context in which they appear. In all contexts other than in wh-questions, negations, relative clauses, and clefts, /-n/ is added to the imperfective stem. It is likely that this /-n/ appears in wh-questions, relative clauses, and clefts as well, but in those clauses the /-n/ appears in clause-second position (after the wh-word or the subject) rather than after the verb. In main clauses of simple declarative sentences and yes-no questions, where the verb is not negated, an additional /-n/ is added if the verb is not followed by an object or adverb. Thus ni becomes ma ninen ("I am drinking") or ma nin wem ("I am drinking quickly").

Imperfectives of Class II are formed by adding /-a/ to the imperfective stem. To this is added /-n/ in main clauses of simple declarative sentences and yes-no questions, if the verb is not negated and if it is not followed by an object or adverb. In fact, this /-n/ is added to all verbs in this context, regardless of whether they are imperfective or perfective, and regardless of their verb class.

#### 3.3 Perfectives

Non-negated perfectives of Class I verbs are formed by adding /-ra/ to the perfective stem. In wh-questions, relative clauses, and clefts, however, they are formed by adding /-re/. Class II verbs simply add /-e/. After this, the final /-n/ may appear, in the appropriate context (see the previous section).

#### 3.4 Gerundives

Gerundives are formed by adding noun class markers for either the noun class be or the noun class me to the imperfective verb stem. Class I verbs tend to add be, and the Class I verbs that also allow me assign specialized meanings to those gerundives. Class II.3. verbs generally form gerundives by adding me. Adding be to Class II.3. verbs forms a gerundive with a more active, less abstract meaning, and the gerundives so formed must take an object. Other Class II verbs seem to be able to add be or me interchangeably.

#### 3.5 Agentives

Agentives are formed by adding /-ta/ or /-da/ to either the perfective or imperfective verb stem. The resulting noun is of the we class. Verb stems ending in vowels tend to prefer to add /-da/, and the others prefer /-ta/. When both forms exist, the dispreferred form often has a specialized meaning.

#### 3.6 Continuatives

Continuatives are formed by adding /-?o/ to the perfective stem, with /-eg/ added to class II.3 verbs. These are preceded by the normal imperfective or perfective forms, with the exception that imperfectives with progressive meaning are indicated by lengthening the final vowel, and the final vowel of the imperfective or perfective verb form is given a high tone.

#### 3.7 Subjunctives

Perfective subjunctives are generally identical to the negated perfective. In Class I, imperfective subjunctives are formed by adding /-m/ to the imperfective stem. In Class II, imperfective subjunctives are formed by adding /-m/ to the imperfective stem, but first adding the perfective /-e/ or /-ege/ (for Class II.3.).

#### A VERB CHARTS

#### A.1 Imperatives

Translation	Neg. Impf.	Neg. Perf.	Imperative			
		Class I				
Forms with imp	erfective endin	g in /e/ and perfective	ve ending in /ra/			
search	bage (14-1)	bage (14-2)	bage (10)			
cultivate	kə (14-4)	kə (14-5)	ko (10)			
drink	ŋi (14-7)		ŋi (10)			
take	loge (14-8)		loge (6-1)			
die	kpu (14-9)	kpi (14-10)	kpi (496)			
eat	d3u (14-12)	de (14-13)	de (G25-15)			
blow (of wind)	fuge (14-36)	fuge (14-38)	fuge (14-39)			
attach-rep	tógé (16-30)	$t\acute{o}g\acute{e}/\acute{a}$ (16-31/DB932)	tógé (16-32)			
see	jú(nà) (1070)	$\mathrm{j}\acute{\epsilon}$ (1071)	$j\acute{\epsilon}$ (1075)			
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Translation	Neg. Impf.	Neg. Perf.	Imperative		
invent			kúdé (DB918)		
cut-rep			$d_3ide/a$ (DB922)		
surpass	jágé (DB1202)	jágé (DB1199)			
Forms with in	perfective ending in	n /a/ and perfective	e ending in /ra/		
steal	baw (14-14)	baw (14-14)	baw (10)		
plant	borde (14-16)	bo:de (14-17)	borde (10)		
hit-rep	wa?e (14-18)	wa?e (14-19)	$w\'a?(\acutea/\acutee)$ (779)		
do	?E (14-20)	?E (14-22)	?E (662)		
give	sa?a (14-23)	Si (14-24)	Si (687)		
mix	ham (14-25)	ham (14-26)	ham (745)		
cook	dorge (14-58)		dá <b>ː</b> gé (17-8)		
Forms with i	Forms with imperfective ending in $\emptyset$ and perfective ending in $/ra/$				
beat-rep	gbu (14-27)	gbu (14-28)	gbu (12-1)		

Forms with in	nperfective ending i	n /a/ and perfective	e ending in /e/		
hunt (beat bush)	jarge bargo (14-29)	jarge bargo (14-30)	jarge bargo (10)		
bury	kura: (14-31)	kure/a (14-32)	kure (10)		
prepare	mangela (14-33)	mangele/a (14-34)	mangela/e (10)		
blow (of wind)	hura (14-35)	hure/a (14-37)	hura (10)		
blow (person?)	fura (14-46)	fure/a (14-47)	fura (10)		
come	ke:na (14-48)	dana (14-49)	dain(a) (799)		
go	kede (14-50)	sana/(e) (14-53)	kèdá/sàná (800/801)		
sing	joma (14-54)	jom(a/e) (14-55)	jom(a) (705)		
sleep/lie down	do:ta (14-56)	do:ta/e (14-57)	do:ta/e (709)		
cook/put on fire	dégăr (19-1)	dege/a (14-59)	dege/a (710)		
leave	ŋeba (14-60)	ŋεbe/a (14-61)	ŋaba (B25-12)		
suffer	WEITA (14-62)	WEITA (14-65)	(12-7)		
respect	bu <b>:</b> ŋga (14-68)	bu:nge/a (14-69)	burnge/a (12-14)		
want	bágé (14-70)	bá <b>ː</b> gè (14-71)	<b></b> (12-20)		
fall (once)	lá <b>ːjàː</b> (1066)	lâ <b>ː</b> (j) (1068)	laja/i (291)		
walk	newra (15-1)	newre (15-2)	newre/a (15-3)		
ask	gbama (15-8)	gbam(*e) (15-9)	gbam(a) (15-10)		
arrive	tá:nà (15-15)	tâ:n(à) (15-16)	tain(a) (B25-33)		
burn	bóːlà (15-21)	bóːlè (15-22)	bó:lá/é (15-23)		
fall-rep	lotra (15-27)	lotre (15-28)	lótré (12-27)		
deny/contradict	kéjá (1197)	kéjà/kê: (1198)	kèjá/kě: (1194)		
spit-rep	sé?èrá (16-7/16-8)	sé?èré/á (16-9)	sè?èré/á (16-10)		
burn-rep	búgèrá (16-1)	búgùré (16-2)	bùgùré (1223)		
enter			d3ube (DB983)		
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Translation	Translation Neg. Impf. Neg. Perf. Imperative					
Forms with imperfective ending in $/a/$ and perfective ending in $\emptyset$						
blow (person)	fuwa (15-29)	fuwa (15-30)	fuwa (10)			
give	ta: (15-31)	to (15-32)	to (672)			
put in	laː/loa (15-36)	ló/loa (15-37)	lo (694)			
touch			tarow(a) (DB1061)			
Forms with impe		n /a/ and perfectiv				
peer	lo:da/lo (15-40)	lordege (15-41)	lòːdègé/á (15-43)			
burn (once)	búgédá (1212)	búgédègè (1213)	bugedege (10)			
spit (once)	sé?édá (16-5)	sé?édègá/é (16-6)	se?edege/a (10)			
hit (once)	wá?ádá (16-19)	wá?ádègè (16-20)	wa?adege (4-1)			
attach (once)	tógádá (16-24)	tógádègè (16-25)	tugədege (5-1)			
cut (once)	dzítá (19-2)	dzítégé (19-3)	dʒìtə̀gá/é (B212-10)			
leave	wέ?έdá (19-4)	wé?édégé (19-5)	əga (B25-23)			
send	tólá (19-6)	tólégé (19-7)	tələge (Ba23-1)			
beat	gbúdá (19-8)	gbúdégé (19-9)	gbùdègé (11-11)			
lay/put			dà:lègé (DB831)			
surface			mε?εdege (DB995)			
cut			se?edege (DB1975)			
	О	ther				
tell	bà?á (19-22)	bèré (19-24)	bèré (19-23)			
split			bàigá (DB585)			
try			mágě! (DB893)			
exit			réidé (DB989)			
submerge			mi?i (DB996)			
jump-rep/bounce			forow (DB906)			

## A.2 IMPERFECTIVES AND PERFECTIVES

Translation	Neg. Impf.	Neg. Perf.	Imperfective	Perfective			
	Class I						
Fo	rms with impe	rfective ending in /e/	and perfective ending in	ı/ra/			
search	bage (14-1)	bage (14-2)	bagen(en) (10)	bagera(n) (10)			
cultivate	kə (14-4)	ko (14-5)	ko:ne(n) (10)	kəra(n) (10)			
drink	ŋi (14-7)		$ \eta ine(n) $ (10)	ŋira(n) (10)			
take	loge (14-8)	_	loge(ne) (497)	logra(n) (499)			
die	kpu (14-9)	kpi (14-10)	kpune(n) (494)	kpi:ra(n) (493)			
eat	d3u (14-12)	de (14-13)	d3u((ne)n) (503)	dera(n) (718)			
blow (of wind)	fuge (14-36)	fuge (14-38)	fugen(en) (14-40)	$fùg(\grave{a})r\grave{a}(\acute{n})$ (14-41)			
attach-rep	tógé (16-30)	$t\acute{o}g\acute{e}/\acute{a}$ (16-31/DB932)	tògán(en) (DB931)	tògèrrá (DB926)			
see	jú(nà) (1070)	jÉ (1071)	ju(n) juna june (C35-11)	jena (C33-2)			
	continued on next page						

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Translation	Neg. Impf.	Neg. Perf.	Imperfective	Perfective
sleep			$g \sin(\acute{e}n)$ (DB811)	
invent			kùdèn(én) (DB920)	$\mathrm{kurra}(n)$ (DB919)
cut-rep				dzìrràń/dzìrrá (DB923)
surpass	jágé (DB1202)	jágé (DB1199)	jàgén (DB1213)	jàgrà (DB1195)
disappear				bire(n) (DB1479)
Fo	rms with imperfecti	ve ending in /a/ an	d perfective ending	in /ra/
steal	baw (14-14)	baw (14-14)	bawa(n) (10)	bawəra(n) (10)
plant	borde (14-16)	borde (14-17)	boida(n) (10)	bo:rra(n) (10)
hit-rep	wa?e (14-18)	wa?e (14-19)	wa?ana (4-13)	wa?arra(n) (4-18)
do	?E (14-20)	?E (14-22)	$\operatorname{?ena}(n)$ (663)	?era(n) (665)
give	sa?a (14-23)	Si (14-24)	sa?ane (690)	sira(n) (691)
mix	ham (14-25)	ham (14-26)	hama(n) (746)	haməra(n) (747)
cook	do <b>:</b> ge (14-58)		dolga(n) (711)	dà <b>ː</b> grá (17-10)
Forms with imperfective ending in $\emptyset$ and perfective ending in $/ra/$				
beat-rep	gbu (14-27)	gbu (14-28)	gbun (C23-5)	gbu:rra (C25-5)

Fo	orms with imperfect	ive ending in $/a/ar$	nd perfective ending	in /e/		
hunt (beat bush)	jarge bargo (14-29)	jarge bargo (14-30)	jarga bargo (10)	jarge bargo (10)		
bury	kura: (14-31)	kure/a (14-32)	kura(n) (10)	kure (10)		
prepare	mangela (14-33)	mangele/a (14-34)	mangela(n) (10)	mangele (10)		
blow (of wind)	hura (14-35)	hure/a (14-37)	hura(n) (10)	hure(n) (10)		
blow (person?)	fura (14-46)	fure/a (14-47)	fura(n) (10)	fuire (10)		
come	ke:na (14-48)	dana (14-49)	kènă:(n) (802)	$d\acute{a}$ n $\acute{a}$ (n) (805)		
go	kede (14-50)	sana/(e) (14-53)	kèdă!(n) (803)	$sán \acute{a}(n)$ (805)		
sing	joma (14-54)	jom(a/e) (14-55)	joma(n) (753)	jom(en) (754)		
sleep/lie down	dorta (14-56)	do:ta/e (14-57)	dorta (734)	do:te (735)		
cook/put on fire	dégă: (19-1)	dege/a (14-59)	$d\grave{e}g\grave{a}(\acute{n})$ (17-9)	dege (C122-2)		
leave	ŋeba (14-60)	ŋεbe/a (14-61)	naba(n) (B25-14)	nabe(n) (B25-16)		
suffer	WEIra (14-62)	WEIra (14-65)	WEIra (C33-10)	WEIRE (C33-11)		
respect	bu <b>x</b> ŋga (14-68)	bu:ŋge/a (14-69)	burnga (C33-18)	buinge (C33-19)		
want	bágé (14-70)	bá <b>ː</b> gè (14-71)	barga(n) (C33-20)	barge (C33-22)		
fall (once)	lá <b>ːjàː</b> (1066)	lâ <b>ː</b> (j) (1068)	laja (292)	laje(n) (B25-6)		
walk	newra (15-1)	newre (15-2)	newra(n) (299)	newre (302)		
ask	gbama (15-8)	gbam(*e) (15-9)	gbama (8-13)	gbam(en) (10)		
arrive	tá:nà (15-15)	tâ:n(à) (15-16)	ta:nna(n) (B25-35)	tainne(n) (B25-38)		
burn	bóːlà (15-21)	bóːlè (15-22)	bo:la (407)	borle (396)		
fall-rep	lotra (15-27)	lotre (15-28)	lótrá (13-14)	lótré (13-15)		
deny/contradict	kéjá (1197)	kéjà/kê: (1198)	kèjà(ń) (1200)	kěin (1202)		
spit-rep	sé?èrá (16-7/16-8)	sé?èré/á (16-9)	sè?èrà $(\acute{n})$ (16-11)	sè?è?rè(ń) (16-12)		
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previous page			
Neg. Impf.	Neg. Perf.	Imperfective	Perfective
búgèrá (16-1)	búgùré (16-2)	bùgùrà(ń) (1221)	bùgùrè(ń) (1222)
		$d\epsilon wra(n)$ (db911)	$d\epsilon wre(n)$ (DB912)
		dʒuba (DB987)	d3ùbé (DB912)
		$b\epsilon 2\epsilon ra(n)$ (DB914)	
		dzuba (DB987)	d3ube (DB984)
		he?a (DB1084)	he?e (DB1083)
		mětěg $\grave{a}(\acute{n})/m\grave{e}t\grave{a}(\acute{n})$ (DB1092)	mètègè(ń) (DB1091)
			hàwè(ń) (DB1488)
			hấŋé (DB1577)
		kóglá (1093)	kogle (1097)
		Ü	mè?èrè (DB955)
		pò?òrá (DB1397)	pó?órè (DB1393)
Forms with in	nperfective ending	in /a/ and perfective ending i	n Ø
fuwa (15-29)	fuwa (15-30)	fuwa (10)	fu: (10)
ta: (15-31)	to (15-32)	ta:/towa (675/676)	to
laː/loa (15-36)	ló/loa (15-37)	laː/lowa (699/700)	lo (698)
,	,	tàròwà (DB1057)	tàròw (DB1064)
Forms with imp	perfective ending in	/a/ and perfective ending in	/ege/
lo:da/lo (15-40)	lordege (15-41)	lòːdà(ń) (15-44)	lòːdègè (15-47)
búgédá (1212)	búgádègè (1213)	bugeda(n) (10)	bugədege (10)
sé?édá (16-5)	sé?édègá/é (16-6)	se?eda(n) (10)	se?edege (10)
wá?ádá (16-19)	wá?ádègè (16-20)	wa?ada (484)	wa?adege (4-14)
tógádá (16-24)	tógádègè (16-25)	togeda (491)	togədege (488)
dzítá (19-2)	dzítégé (19-3)	dzita(n) (B212-11)	dzitege (B212-13)
wé?édá (19-4)	wé?édégé (19-5)	we?eda(n) (B25-25)	wε?εdege(n) (B25-27)
tálá (19-6)	tólégé (19-7)	tola (Ba23-3)	tolege (Ba23-5)
gbúdá (19-8)	gbúdégé (19-9)	gbùdá (11-12)	gbùdègè (11-13)
, ,			là?àdègá (DB1483)
		dóːlá (DB832)	
		· · ·	hedege (DB903)
		dzétá (DB1279)	dzetege (DB999)
			bidege (DB1008)
		( ) ( - )	forge (DB1009)
			su:lege (DB1010)
		tamda (DB1086)	tamdəge (DB1085)
		/	gbù?ùdègè (DB1273)
			nìndègé (DB1284)
			dèwlègé (DB1511)
			dzělègè (DB1285)
		<u></u>	entinued on next page
	Forms with in fuwa (15-29) ta: (15-31) la:/loa (15-36)  Forms with implo:da/lo (15-40) búgódá (16-19) tógódá (16-19) tógódá (16-24) dʒítá (19-2) wé?édá (19-4)	Forms with imperfective ending           fuwa (15-29)         fuwa (15-30)           ta: (15-31)         to (15-32)           la:/loa (15-36)         ló/loa (15-37)           Forms with imperfective ending in lo:da/lo (15-40)         lo:dege (15-41)           búgódá (1212)         sé?édágè (16-6)           wá?ádá (16-19)         tógódègè (16-20)           tógódá (19-2)         tógódègè (19-3)           wé?édá (19-4)         tólá (19-6)           tólá (19-7)         tólégé (19-7)	búgèrá (16-1) búgùré (16-2) búgùrà (n) (1221) dɛwra(n) (DB911) dʒuba (DB987) bɛ?ɛra(n) (DB914) dʒuba (DB987) he?a (DB1084) mètègà(n)/mètà(n) (DB1092)  kóglá (1093)  pà?òrá (DB1397)  Forms with imperfective ending in /a/ and perfective ending i fuwa (15-29) ta: (15-31) la:/loa (15-36) ló/loa (15-32) ta:/towa (675/676) la:/lowa (699/700) tàròwà (DB1057)  Forms with imperfective ending in /a/ and perfective ending in loida/lo (15-40) búgódá (1212) búgódá (16-21) búgódá (16-24) wá?ádá (16-19) tógódá (16-24) dójádá (16-24) dójádá (19-2) wé?édá (19-3) wé?édá (19-4) tógódègè (19-3) wé?édá (19-6) gòbúdá (19-8) gòbúdégé (19-9) gòbúdégí (19-9) bùdà(n) (DB1027) bùdà(n) (DB1027) bùdà(n) (DB54)  tamda (DB1086)

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Translation	Neg. Impf.	Neg. Perf.	Imperfective	Perfective
stand			dzi?era (DB900)	dzì?èlègé (DB1510)
think/believe			dílá/díːlá (DB571)	dílègè (DB1442)
finish				fétégé (DB588)
meet			gbù?ùlà(ń) (DB1264)	$\widehat{\mathrm{gbu}}$ ? $\widehat{\mathrm{ulège}}(\widehat{\mathrm{n}})$ (DB1263)
happen				índzòŋgè (DB595)
separate			jèdà (DB1269)	jèdègè (DB1268)
widen				jádégé (DB1495)
hang			lìlà (DB1396)	lílégé (DB1500)
emerge				me?edege (DB995)
cross				mewdege (DB1338)
open				ródégé (DB1467)
put on				téwèlègé (DB1621)
become				tindəge (DB1603)
find/pick up			túdá (DB1505)	tùdègé (DB1502)

Other

peer-rep			lŏ:n(e) (15-46)	
tell	bà?á (19-22)	bèré (19-24)	ba?a (C35-12)	bəda (B212-9)
split			baiga(n) (DB587)	
possess				jóŋgé (DB634)
dance			hawa(n) (DB814)	
bounce				forow (DB908)
bounce/convulse			ti?ira(n) (DB909)	
sit			kada(n) (db916)	
exit				reda (DB992)
submerge			mi?a: (DB998)	
shake			dama(n) (DB1007)	
roll				bìriẁ (DB905)
fill				dágé (DB1389)

## A.3 GERUNDIVES

Translation	Neg. Impf.	Neg. Perf.	-be Gerundive	-m Gerundive	
		Class 1	[		
Forms with	imperfective	ending in /e,	$^{\prime}$ and perfective $\epsilon$	ending in /ra/	
search	bage (14-1)	bage (14-2)	bagəbe (10)		
cultivate	ko (14-4)	ko (14-5)	kpa:be (10)	kpám (17-1)	
drink	ŋi (14-7)		ŋεbe (10)		
take	loge (14-8)		lógébé (775)		
die	kpu (14-9)	kpi (14-10)	kpube (17-3)	kpum (17-2)	
eat	d3u (14-12)	de (14-13)	d3ube (C35-6)		
	continued on next page				

continued from pr	evious page				
Translation	Neg. Impf.	Neg. Perf.	-be Gerundive	-m Gerundive	
blow (of wind)	fuge (14-36)	fuge (14-38)	fugebe (14-42)		
attach-rep	tógé (16-30)	$t\acute{o}g\acute{e}/\acute{a}$ (16-31/DB932)	tògèbé (18-38)	(18-38)	
see	$j\acute{u}(n\grave{a})$ (1070)	jέ (1071)	ju:be (C35-3)		
sleep				gʻn (db810)	
surpass	jágé (DB1202)	jágé (DB1199)			
	Forms with imperf	ective ending in /a/ a	and perfective end	ing in /ra/	
steal	baw (14-14)	baw (14-14)	babe (10)		
plant	borde (14-16)	bo:de (14-17)	bodebe (10)		
hit-rep	wa?e (14-18)	wa?e (14-19)	wá?ábé (780)		
do	?E (14-20)	?E (14-22)	?ebe (666)		
give	sa?a (14-23)	Si (14-24)	sa?abe (692)		
mix	ham (14-25)	ham (14-26)	hà:mbé (790)		
cook	do:ge (14-58)		də:gə:be (C127-1)		
	Forms with imperfective ending in $\emptyset$ and perfective ending in $/\text{ra}/$				
beat-rep	gbu (14-27)	gbu (14-28)	gburbe (C25-3)		

	Forms with imperfective ending in /a/ and perfective ending in /e/				
hunt (beat bush)	jarge bargo (14-29)	jarge bargo (14-30)		bargo jarg(r)əm (10)	
bury	kura: (14-31)	kure/a (14-32)		kurem (10)	
prepare	mangela (14-33)	mangele/a (14-34)	mangelebe (10)		
blow (of wind)	hura (14-35)	hure/a (14-37)	hurebe (10)	hú:rém (17-4)	
blow (person?)	fura (14-46)	fure/a (14-47)	furebe (10)	fu:rem (17-4)	
come	ke:na (14-48)	dana (14-49)	ké:ná (808)	da:neme (C219-1)	
go	kede (14-50)	sana/(e) (14-53)	ké:ná (809)	sàném (810)	
sing	joma (14-54)	jom(a/e) (14-55)	jômbé (752)		
sleep/lie down	do:ta (14-56)	do:ta/e (14-57)		do:tem (740)	
cook/put on fire	dégă: (19-1)	dege/a (14-59)		dégém (17-6)	
leave	ηεba (14-60)	ŋεbe/a (14-61)		ŋɛːbem (C35-2)	
suffer	WEIra (14-62)	WEIra (14-65)	we:rebe (17-14)	(12-9)	
respect	bu <b>:</b> ŋga (14-68)	burnge/a (14-69)	bùːŋgébé (12-16)	bù:ŋgém (12-15)	
want	bágé (14-70)	bá <b>ː</b> gè (14-71)	bág(a)bé (12-21)		
fall (once)	láːjàː (1066)	$l\hat{a}i(j)$ (1068)	làjèbé (17-16)	làjém (12-26)	
walk	newra (15-1)	newre (15-2)	nèwrèbé (15-4)		
ask	gbama (15-8)	gbam(*e) (15-9)	gbàmbé (15-11)		
arrive	tá:nà (15-15)	tâ:n(à) (15-16)		da:neme/tà:ném (C219-1/17-17)	
burn	bóːlà (15-21)	bóːlè (15-22)	bòːlèbé (17-19)	bòːlém (17-18)	
fall-rep	lotra (15-27)	lotre (15-28)	lòtrèbé (12-25)		
deny/contradict	kéjá (1197)	kéjà/kê: (1198)	kèːbé (17-25)	kěːm (1203)	
spit-rep	sé?èrá (16-7/16-8)	sé?èré/á (16-9)	sè?èrèbé (16-13)		
continued on next page					

continued from pre	evious page			
Translation	Neg. Impf.	Neg. Perf.	-be Gerundive	-m Gerundive
burn-rep	búgèrá (16-1)	búgùré (16-2)	bùgùrèbé (16-3)	
enter			d3ùbém (988)	
enter				d3ubem (DB988)
Fo	orms with imper	fective ending in /a	/ and perfective end	ing in ∅
blow (person)	fuwa (15-29)	fuwa (15-30)	furebe (10)	fùwə́m (17-20)
give	ta: (15-31)	to (15-32)		to:me/tòwóm (677/17-22)
put in	laː/loa (15-36)	ló/loa (15-37)		lo:me/lŏ:m (701/17-23)
touch			tàròwbé (DB1063)	
For		tive ending in /a/	and perfective ending	g in /ege/
peer	lo:da/lo (15-40)	lo:dege (15-41)		lòːdègém (15-48)
burn (once)	búgédá (1212)	búgédègè (1213)	bugedegebe (17-26)	bugedegem (10)
spit (once)	sé?édá (16-5)	sé?édègá/é (16-6)	se?edegebe (17-28)	se?edegem (10)
hit (once)	wá?ádá (16-19)	wá?ádègè (16-20)	wa?adegebe (17-29)	wa?adəgəm (716)
attach (once)	tógádá (16-24)	tógádègè (16-25)	togədegebe (17-30)	tògèdègém (16-26)
cut (once)	dzítá (19-2)	dzítégé (19-3)	dzitgebe (17-31)	dzitegem
leave	wέ?έdá (19-4)	wé?édégé (19-5)	we?edegebe (17-32)	we?edegem
send	tólá (19-6)	tólégé (19-7)	tələgebe (17-33)	tələgem
beat	gbúdá (19-8)	gbúdégé (19-9)	gbudegebe (17-34)	gbudegem
laugh				lá?ádágèm (DB824)
lay/put				dô:lègém (DB834)
jump (once)				fórègém(e) (DB1282)
find/pick up				túdègém (DB1503)
Other				
tell	bà?á (19-22)	bèré (19-24)	ba?e:be (C35-4)	
split			bá <b>ː</b> gèbé (DB588)	
be	kpa?a	kpa?a	beib (DB673)	
dance				hàmté (DB815)
jump-rep/bounce			fóròwbé (DB1281)	

# A.4 AGENTIVES

Translation	Neg. Impf.	Neg. Perf.	Agentive		
	Class I				
Forms with i	mperfective e	nding in /e/s	and perfective ending in /ra/		
search	bage (14-1)	bage (14-2)	bágód/tá (10)		
cultivate	kə (14-4)	kə (14-5)	kpam kpa:da (10)		
drink	ŋi (14-7)		ŋiːda (10)		
take	loge (14-8)		$l\acute{o}(\acute{a})t/d\acute{a}$ (776)		
die	kpu (14-9)	kpi (14-10)			
eat	d3u (14-12)	de (14-13)	deda/dzuda (345/346)		
	continued on next page				

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Translation	Neg. Impf.	Neg. Perf.	Agentive
blow (of wind)	fuge (14-36)	fuge (14-38)	fuget/da (14-43)
attach-rep	tógé (16-30)	$t\acute{o}g\acute{e}/\acute{a}$ (16-31/DB932)	tógótà (18-37)
see	jú(nà) (1070)	jé (1071)	jú:t/dá (1077)
surpass	jágé (DB1202)	jágé (DB1199)	
Forms with imperfective ending in /a/ and perfective ending in /ra/			
steal	baw (14-14)	baw (14-14)	bawda (10)
plant	borde (14-16)	borde (14-17)	bodeta (10)
hit-rep	wa?e (14-18)	wa?e (14-19)	wá?ád/tá (781)
do	?ε (14-20)	?E (14-22)	?é?éd/tá (784)
give	sa?a (14-23)	Si (14-24)	sá?ád/tá (787)
mix	ham (14-25)	ham (14-26)	hâ:mt/dà (791)
cook	dorge (14-58)		də:gəda (C23-17)
Forms	with imperfective en	ding in $\emptyset$ and perfect	ive ending in /ra/
beat-rep	gbu (14-27)	gbu (14-28)	gburd/ta (C23-6)

Forms w	Forms with imperfective ending in /a/ and perfective ending in /e/			
hunt (beat bush)	jarge bargo (14-29)	jarge bargo (14-30)	bargo jagəda/jágèrrtà (13-10)	
bury	kura: (14-31)	kure/a (14-32)	kure:ta/kudta/kurta (10)	
prepare	mangela (14-33)	mangele/a (14-34)	mangeleta (10)	
blow (of wind)	hura (14-35)	hure/a (14-37)	hureta (10)	
blow (person?)	fura (14-46)	fure/a (14-47)	fureta (10)	
come	ke:na (14-48)	dana (14-49)		
go	kede (14-50)	sana/(e) (14-53)	sá:ná (811)	
sing	joma (14-54)	jom(a/e) (14-55)	jômd $/t$ à (818)	
sleep/lie down	dorta (14-56)	do:ta/e (14-57)	(821)	
cook/put on fire	dégă: (19-1)	dege/a (14-59)	dégédá (17-11)	
leave	ŋeba (14-60)	ηεbe/a (14-61)	ŋὲbtá (12-4)	
suffer	WEIra (14-62)	WEIra (14-65)	weirta/ $\epsilon$ (13-13)	
respect	bu <b>x</b> ŋga (14-68)	bu:ŋge/a (14-69)	(12-17)	
want	bágé (14-70)	bá <b>ː</b> gè (14-71)	$\mathrm{bág}(a)\mathrm{t}/\mathrm{da}$ (12-22)	
fall (once)	láːjàː (1066)	$\hat{\text{lax}}(j)$ (1068)	lájétá (13-20)	
walk	newra (15-1)	newre (15-2)	newreta (15-5)	
ask	gbama (15-8)	gbam(*e) (15-9)	$\widehat{\mathrm{gba:mt}}/\mathrm{d\grave{a}}$ (15-12)	
arrive	tá:nà (15-15)	tâ:n(à) (15-16)	ta:nta (15-18)	
burn	bóːlà (15-21)	bóːlè (15-22)		
fall-rep	lotra (15-27)	lotre (15-28)	lotreta (12-12)	
deny/contradict	kéjá (1197)	kéjà/kê: (1198)	kè:t/dà (1204)	
spit-rep	sé?èrá (16-7/16-8)	sé? $eré/á$ (16-9)	sè?èrètà (16-14)	
burn-rep	búgèrá (16-1)	búgùré (16-2)	bùgàrtà (16-4)	
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Translation	Neg. Impf.	Neg. Perf.	Agentive
Forms with i	mperfective endi	ng in /a/and perfection	ective ending in $\emptyset$
blow (person)	fuwa (15-29)	fuwa (15-30)	fureta (10)
give	ta: (15-31)	to (15-32)	tart/da (15-33)
put in	laː/loa (15-36)	ló/loa (15-37)	lóːtá (15-38)
touch			tàròwtà (DB1066)
Forms with imp	perfective ending	$\sin /a $ and perfect	ive ending in /ege/
peer	loːda/lo (15-40)	lordege (15-41)	lordegeta (15-49)
burn (once)	búgédá (1212)	búgédègè (1213)	bugudeta (10)
spit (once)	sé?édá (16-5)	sé?édègá/é (16-6)	se?edegeta (10)
hit (once)	wá?ádá (16-19)	wá?ádègè (16-20)	wá?ádégétá (16-21)
attach (once)	tógádá (16-24)	tógádègè (16-25)	tògàdègètá (16-27)
cut (once)	dzítá (19-2)	dzítégé (19-3)	dzìtègètà (19-10)
leave	wέ?έdá (19-4)	wé?édégé (19-5)	wè?èdègètà (19-11)
send	tólá (19-6)	tólégé (19-7)	tóːmdà/tà (19-12)
beat	gbúdá (19-8)	gbúdégé (19-9)	gbúdà (19-13)
Other			
peer-rep			lòːdá (15-39)
tell	bà?á (19-22)	bèré (19-24)	

# A.5 Imperfective Continuatives

Translation	Neg. Impf.	Imperf. Cont.		
	Class I			
Forms with imp	erfective endin	g in /e/ and perfective ending in /ra/		
search	bage (14-1)	bagene bago (10)		
cultivate	kə (14-4)	kɔaː kɔʔo (10)		
drink	Ŋi (14-7)	njja: nj?o (10)		
take	loge (14-8)	loge lógó (777)		
die	kpu (14-9)	kpùn kéhím (11-16)		
eat	d3u (14-12)	dzùwă: dzŭ:?ó (794)		
blow (of wind)	fuge (14-36)	fùgă: fùgó (14-44)		
attach-rep	tógé (16-30)	tògèn tògó (18-39)		
see	$j\acute{u}(n\grave{a})$ (1070)			
surpass	jágé (DB1202)			
Forms with imp	erfective endin	g in /a/ and perfective ending in /ra/		
steal	baw (14-14)	bawa bawo (10)		
plant	bo:de (14-16)	bo:da bodo (10)		
hit-rep	wa?e (14-18)	wà?án wà?à?ó (782)		
do	?ε (14-20)	?ena ?e:?o (667)		
		continued on next page		

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Translation	Neg. Impf.	Imperf. Cont.	
give	sa?a (14-23)	$s\acute{a}?\acute{a}n(\acute{a}n) s\grave{a}?\acute{a}?\acute{o}$ (788)	
mix	ham (14-25)	hama hàmó (792)	
cook	dorge (14-58)	dòːgǎː dógò (12-2)	
Forms with imperfective ending in $\emptyset$ and perfective ending in $/\text{ra}/$			
beat-rep	gbu (14-27)	gbùwă: gbŭ:?ó (797)	

	CLASS 11			
_	erfective ending in /	a/ and perfective ending in /e/		
hunt (beat bush)	jarge bargo (14-29)	jarga bargo (10)		
bury	kura: (14-31)	kugen kugo (10)		
prepare	mangela (14-33)	mangela:?a mangelo (10)		
blow (of wind)	hura (14-35)	hura huro (10)		
blow (person?)	fura (14-46)	fura furo (10)		
come	ke:na (14-48)	dzùbèná dzùbé?ò (813)		
go	kede (14-50)	kèdá: kédò (814)		
sing	joma (14-54)	jùmăː jùmó (819)		
sleep/lie down	dorta (14-56)	dòră: dò:ró (823)		
cook/put on fire	dégăr (19-1)	dègă: dègó (17-12)		
leave	ŋeba (14-60)	ŋὲbǎː ŋέbò (12-5)		
suffer	WEIra (14-62)	wèirăi wèiró (12-10)		
respect	bu <b>x</b> ŋga (14-68)	bùːŋgǎː bùːŋgó (12-18)		
want	bágé (14-70)	bàgă: bágó (12-23)		
fall (once)	láːjàː (1066)	làjá làjó?ó (13-18)		
walk	newra (15-1)	nèwrá: nèwró? (15-6)		
ask	gbama (15-8)	gbàmá gbàmó (15-13)		
arrive	tá:nà (15-15)	tànă: tà:nó? (15-19)		
burn	bóːlà (15-21)	bòːlǎː bòːlóʔ (15-25)		
fall-rep	lotra (15-27)	lòtră: lòtrèká (13-16)		
deny/contradict	kéjá (1197)	kèjăː kěː?ò (1206)		
spit-rep	sé?èrá (16-7/16-8)	sè?erăː sè?èró (16-17)		
burn-rep	búgèrá (16-1)	bùgùrăː bùgó (1218)		
enter		dzùbèná dzùbé?ò/dzùbó (DB1660)		
Forms with imp	perfective ending in			
blow (person)	fuwa (15-29)	fura furo (10)		
give	ta: (15-31)	ta: to:?o (678)		
put in	laː/loa (15-36)	lowa la (702)		
touch		tàròwă: tàrów?ó (db1068)		
Forms with imper		a/ and perfective ending in /ege/		
peer	lo:da/lo (15-40)	lòːdăː lòdègó (15-50)		
burn (once)	búgédá (1212)	bùgùdăː bùgùdègó (1215)		
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Translation	Neg. Impf.	Imperf. Cont.		
spit (once)	sé?édá (16-5)	sè?èdá sè?èdègó (16-15)		
hit (once)	wá?ádá (16-19)	wà?àdă: wà?àdègó (16-22)		
attach (once)	tógádá (16-24)	tògàdǎː tògàdègó (16-28)		
cut (once)	dzítá (19-2)	dzìtá dzìtègó (19-14)		
leave	wé?édá (19-4)	wè?èdá wè?èdègò (19-16)		
send	tólá (19-6)	tòlègáː/tòláː (19-18)		
beat	gbúdá (19-8)	gbùdà gbùdègó (19-20)		
Other				
tell	bà?á (19-22)			

## A.6 Perfective Continuatives

Translation	Neg. Perf.	Perf. Cont.		
	Class I			
Forms with imper	fective ending in /e/	and perfective ending in /ra/		
search	bage (14-2)	bagera bago (10)		
cultivate	ko (14-5)	kəra kə?o (10)		
drink		ŋira ŋi?o (10)		
take		logra lógó (778)		
die	kpi (14-10)	kpùrà kéhím (11-17)		
eat	de (14-13)	dèrá dě:?ó (795)		
blow (of wind)	fuge (14-38)	fùgèrá fùgó (14-45)		
attach-rep	$t\acute{o}g\acute{e}/\acute{a}$ (16-31/DB932)	tògòrá tògó (18-40)		
see	jέ (1071)			
surpass	jágé (DB1199)			
Forms with imper	fective ending in /a/	and perfective ending in /ra/		
steal	baw (14-14)	bawəra bago (10)		
plant	bo:de (14-17)	boːrra bodo (10)		
hit-rep	wa?e (14-19)	wà?à?ó (783)		
do	?E (14-22)	?èrá ?ě:?ó (786)		
give	Si (14-24)	sìrá sì:?ó (789)		
mix	ham (14-26)	haməra hàmó (793)		
cook		dòːgrá dògó (12-3)		
Forms with impe	erfective ending in $\emptyset$ a	nd perfective ending in /ra/		
beat-rep	gbu (14-28)	gbùráː gbù:?ó (798)		

Forms with imperfective ending in /a/ and perfective ending in /e/			
hunt (beat bush)	jarge bargo (14-30)	ja:ge ba:go (10)	
		continued on next page	

continued from pr	revious page			
Translation	Neg. Perf.	Perf. Cont.		
bury	kure/a (14-32)	kugra kugo (10)		
prepare	mangele/a (14-34)	mangele mangelo (10)		
blow (of wind)	hure/a (14-37)	hure huro (10)		
blow (person?)	fure/a (14-47)	fu:re furo (10)		
come	dana (14-49)			
go	sana/(e) (14-53)	(817)		
sing	jom(a/e) (14-55)	jŭm jùmó (820)		
sleep/lie down	do:ta/e (14-57)	(824)		
cook/put on fire	dege/a (14-59)	dègé dègó (17-13)		
leave	ŋεbe/a (14-61)	(12-6)		
suffer	WEIra (14-65)	(12-13)		
respect	bu:ŋge/a (14-69)	bù:ŋgĕ: bù:ŋgó (12-19)		
want	bá <b>ː</b> gè (14-71)	bàgèrá bàgò (12-24)		
fall (once)	$l\hat{a}$ <b>!</b> $(j)$ (1068)	làjé làjó?ó (13-19)		
walk	newre (15-2)	nèwré nèwró? (15-7)		
ask	gbam(*e) (15-9)	gbàrm gbàmó (15-14)		
arrive	tâ:n(à) (15-16)	tă:n tà:nó? (15-20)		
burn	bó:lè (15-22)	bòːlé bòːlóʔ (15-26)		
fall-rep	lotre (15-28)	lòtré lòtrèká (13-17)		
deny/contradict	kéjà/kêː (1198)	kè: kè:?ó (1209)		
spit-rep	sé?èré/á (16-9)	sè?èré sè?èró (16-18)		
burn-rep	búgùré (16-2)	bùgùrá/é bùgó (1219)		
Forms with imperfective ending in $/a/$ and perfective ending in $\emptyset$				
blow (person)	fuwa (15-30)	fure furo (10)		
give	to (15-32)	tŏ: tó?ò (15-34)		
put in	ló/loa (15-37)	lŏ: ló?ò (15-35)		
touch		tàró:w tàrów?o (db1069)		
Forms with imperfective ending in /a/ and perfective ending in /ege/				
peer	lo:dege (15-41)	lòːdègěː lòdègó (15-51)		
burn (once)	búgédègè (1213)	bùgùdègé bùgùdègó (1216)		
spit (once)	sé?édègá/é (16-6)	sè?èdègé sè?èdègó (16-16)		
hit (once)	wá?ádègè (16-20)	wà?àdègé wà?àdègó (16-23)		
attach (once)	tógádègè (16-25)	tògàdègé tògàdègó (16-29)		
cut (once)	dzítégé (19-3)	dʒìtègé dʒìtègó (19-15)		
leave	wé?édégé (19-5)	wè?èdègé w?èdègó (19-17)		
send	tálégé (19-7)	tàlègé tàlègó (19-19)		
beat	gbúdégé (19-9)	gbùdègé gbùdègó (19-21)		
-	Other			

Other

tell	bèré (19-24)	
		continued on next page

continued from previous page					
Translation	Neg. Perf.	Perf. Cont.			