

Number and Animacy in the Teke Noun Class System

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In this paper, we trace the development of Proto-Bantu noun classes into Teke (Bantu B71, Ewo dialect), showing that formal reflexes of classes 1, 2, 5-9, and 14 are detectable. We further show that animacy, abstractness, and number allow us to determine the fate of classes 3, 4, 10, 11 and identify the following singular/plural genders: 1/2 (animate <PB 1/2, some 9/10), 1/8 (inanimate, <PB 3/4), 14/8 (abstract, <PB 14/8), 5/6 (<PB 5/6), 5/9 (<PB 11/10, with 10>9 merger), 7/8 (<PB 7/8), and 9/6 (<PB 9/6). Such reassignments provide a window into probing parallel noun class changes in other Northwest Bantu and Niger-Congo in general.

1 Introduction

In this paper we have two goals. First, we trace the development of the Proto-Bantu (PB) noun classes into a variety of Teke, a group of closely related, understudied B70 languages spoken in Gabon and the Republic of Congo. Second, we discuss how the Teke facts provide a window into probing parallel noun class changes in other Northwest Bantu, Bantu, and Niger-Congo (NC) in general. In this sense we provide an additional contribution and comparison with past work on the restructuring and loss of NC noun classes. This includes, among others, the considerable work on mergers and loss in Bantoid (cf. the papers in Hyman (1980) and Hyman & Voorhoeve (1980)) and Cross-River (Williamson (1985), Farclas (1986), Connell (1987), Hyman & Udoh (2006)). Of particular interest will be



the restructuring which takes place on the basis of animacy, something discussed at great length in Northeastern Bantu (Wald (1975), Contini-Morava (2008)) and elsewhere in Bantu (Maho (1999): 122–126). We will show that both phonetic and semantic factors have played a role in the changes which have taken place between PB and Teke. All of the above –and more– is covered in very careful detail in Good (2012).

Crucial to the approach taken here is that synchronic noun classes and genders are established by concord (agreement markers), not by affixal marking on the noun itself. On the other hand, as pointed out by several of the above studies, attention must be paid to both marking on the noun as well as on agreeing elements. Our attention is on the Ewo dialect of Teke B71 (République du Congo), as spoken by the third author, reporting on a several month study together in Berkeley in Spring 2016. We begin by considering the situation in PB in §2, then turn to Teke in §3. The changes which have taken place between the two are enumerated in §4, followed by a presentation of our conclusions in §5.

2 Proto-Bantu noun classes

The natural starting point for this kind of study is the Proto-Bantu noun class system, both noun prefixes and (pronominal) concordial elements, which Meeussen (1967: 97) identifies as shown in Table 1.¹

Table 1: Proto-Bantu noun classes and genders

Class	NPfx	Co	Class	NPfx	Co	Sg./pl. genders
1	*mò-	*ò-	11	*lò-	*ló-	1/2 (humans)
2	*bà-	*bá-	12	*kà-	*ká-	3/4
3	*mò-	*gó-	13	*tò-	*tó-	5/6
4	*mì-	*gí-	14	*bò-	*bó-	7/8
5	*ì-	*lí-	15	*kò-	*kó-	9/10 (incl. animals)
6	*mà-	*gá-	16	*pà-	*pá-	11/10
7	*kì-	*gí-	17	*kò-	*kó-	12/13 (diminutives)
8	*bì-	*bí-	18	*mò-	*mó-	14/6 (abstract)
9	*Ñ-	*jì-	19	*pì-	*pí-	15/6
10	*Ñ-	*jí-				19/13? (diminutives)

On the basis of the reconstructions, we can make the following observations:

¹ NPfx = noun prefix; Co = concord

(i) Noun prefixes all have L(ow) tone. (ii) Pronominal concord is H except for (shaded) classes 1 and 9 which are L. (iii) As indicated, some class pairings show some semantic consistency, e.g. 12, 13 and 19 are diminutive classes. In addition, class 6 *mà-* is also used for mass/liquids.), and 16, 17, and 18 are locative classes. In short, at least 19 distinct noun classes can be reconstructed in PB.

3 Teke (Ewo dialect)

The situation is quite different in Teke.² The forms found in the Ewo dialect are presented in Table 2.³

Table 2: Noun class reflexes in Teke (Ewo dialect)

PB	NPfx	As	'this'	'that'	'two'	SPr	SAgr/_C	SAgr/_V
1	ò-, Ñ-, Ø-	wà	wù	wâ	—	ndé	Ø	Ø
2	à-	bá	bà	bâ	bvwóólè	bó	á	bá
5	lè-, Ø	lé	li	lyâ	—	ló	lé	lé
6	à-	má	mà	mâ	mbvwóólè	mó	á	má
7	kè-	ké	kì	kyâ	—	kó	ké	ké
8	è-	bé	bì	byâ	dziéélè	jó	é	bé
9	N-, Ø	yè	yì	yâ	yíéélè	yó	é	yé
14	ò-	bó	bà	bâ	—	ndé	Ø	Ø

As can be seen in the bolded column, at most eight distinct classes are recognizable, which we identify by their associative marker. The PB historical source of the Teke forms is indicated in the first column. The singular/plural pairings (“genders”) are presented in Table 3. The number (#) indicated for each gender is based on a lexicon of 356 singular/plural nouns:

From these tables the following observations and additional facts can be noted:

- (i) Class 3 merged with class 1. We know that the form is historical class 1 because of the L tone associative (only classes 1 and 9 had L tone concord in PB).

² Although Teke languages often have seven (or more) phonetic vowels, e.g. Kukuya (Paulian 1975), we did not find a contrast in the mid vowels, which we transcribe with e and o, pronounced as such in noun class markers and other grammatical morphemes, otherwise as [ɛ] and [ɔ].

³ NPfx = Noun prefix; As = Associative; SPr = Subject pronoun; SA = Subject agreement.

Table 3: Teke genders (sg./pl. pairings)

Teke cl.	PB cl.	Sg. pfx	Pl. pfx	'this'	'these'	#	Semantics
wà/bá	1/2	ò-, Ø-	à-	wù	bà	79	animate, human
wà/bé	(1/8)	ò-	è-	wù	bì	52	inanimate
bó/bé	(14/8)	ò-	è-	bà	bì	18	abstract
lé/má	5/6	lè-	à-	lì	mà	92	
lé/bá	(5/2)	lè-	à-	lì	bà	1	'bird'
lé/yè	(5/9)	lè-	N-	lì	yì	12	
ké/bé	7/8	kè-	è-	kì	bì	54	
yè/má	(9/6)	N-, Ø-	à-	yì	mà	45	

- (ii) Class 4 merged with class 8, thus producing a 1/8 gender (corresponding to PB 3/4).
- (iii) Class 9 is used both as a singular (with a class 6 plural), but also as the plural of class 10. Again, we know that the plural form is class 9 because of its L tone associative. Its plural is class 6, hence a 9/6 gender.
- (iv) Class 11 merged with class 5 (see below). Its plural is class 9, hence a 5/9 gender.
- (v) PB diminutive classes 12, 13 and 19 and locative classes 16, 17 and 18 are not present in Teke.
- (vi) Of the eight singular/plural genders, those not occurring in PB are in parentheses (Maho (1999): 255–261). As seen, most genders are innovations (five out of eight), as schematized in Figure 1. Examples of each gender follow in Table 4.

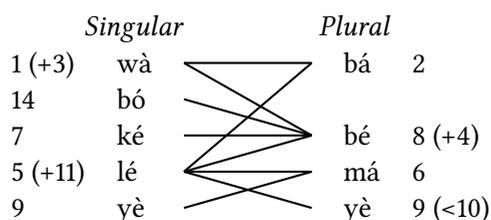


Figure 1: Teke Genders

With this established, we now turn to consider how Teke derived from PB.

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Table 4: Examples of each Teke gender

Teke	PB	Singular	Plural	
wà/bá	1/2	mwaánà ò-kúúlù n-dziá n-dzòò	à-bàánà à-kúúlù à-ndziá à-ndzòò	'child' 'uncle' 'stranger' 'elephant'
wà/bé	(1/8)	ò-bá ò-mbónó ò-nywà ò-kilà	è-bá è-mbónó è-nywà è-kilà	'palm tree' 'leg' 'mouth' 'tail'
bó/bé	(14/8)	ò-yúú ò-dzá ò-bvwòó ò-nsámbá	è-yúú è-dzá è-bvòó è-nsámbá	'poverty' 'food' 'fear' 'judgment'
lé/má	5/6	dziini lè-lémi dziíri kélé	míini à-lémi mbíiri à-kélé	'tooth' 'tongue' 'eye' 'stone'
lé/bá	(5/2)	lè-nyóni	à-nyóni	'bird'
lé/yè	(5/9)	lè-nkíi lè-sálá lè-ntsèrè lè-ndèli	n(-)kíi n(-)tsálá n(-)tsèrè n(-)dèli	'neck' 'feather' 'straw' 'beard'
ké/bé	7/8	kè-kài kè-kàlá kè-bàá kè-yíri	è-kài è-kàlá è-bàá è-yíri	'hand' 'mat' 'wall' 'bone'
yè/má	(9/6)	n(-)dzó bí n(-)dzálí m(-)bàà	à-ndzó à-bí à-ndzálí à-mbàà	'house' 'egg' 'river' 'fire'

4 From Proto-Bantu to Teke

As summarized in §2, the noun classes inherited from PB have undergone a number of mergers. PB classes 3, 4 and 11 all merged their noun and agreements with classes 1, 8 and 5, respectively. Class 14, on the other hand has merged its **bò-* prefix with class 1 (and 3) *ò-*, but maintains a separate agreement. Similarly, PB class 2 **bà-* and class 6 **mà-* have merged their noun prefix as *a-*, but maintain distinct agreements. It is likely therefore that the fully merged first merged their noun prefix, and later their agreements. We survey these changes in this section. However, we first begin by considering the three genders that were inherited directly from PB. Table 5 presents examples of PB reconstructions and their current reflexes in Teke.⁴

Table 5: Genders inherited from Proto-Bantu (Pfx-Noun + Assoc.)

PB (sg./pl.)		Teke (sg./pl.)		
*1/2		1/2 wà/bá		
*mò-kádí ò-	*bà-kádí bá-	ò-kálí wà	à-kálí bá	‘woman’
*mò-già ò-	*bà-già bá-	ò-yià wà	à-yià bá	‘slave’
*5/6		5/6 lé/má		
*ì-jícò lí-	*mà-jícò gá-	dzíurì lé	mbíurì má	‘eye’
*ì-jói lí-	*mà-jói gá-	dzúì lé	a-dzúì má	‘voice’
*ì-kájá lí-	*mà-kájá gá-	lè-káyà lé	à-káyà má	‘tobacco’
*7/8		7/8 ké/bé		
*kì-dìbà gí-	*bì-dìbà bí-	kè-dià ké	è-dià bé	‘pool’
*kì-gàdá gí-	*bì-gàdá bí-	kè-kàlá ké	è-kàlá bé	‘mat’

As seen, the major change has been the loss of the initial consonant of PB class 2 **ba-*, class 6 **ma-* and class 8 **br-*. The Teke 5/6 examples show that class 5 nouns can be marked by *lè-* or \emptyset . Nouns in 5/6 are roughly equally divided; those in 5/9 always take *lè-*.

While the above genders have been stable, four class mergers directly explain two of the new genders: The first, gender 1/8 *wà/bé*, is the formal merger of **3 > 1* and **4 > 8*. Thus, as seen in Table 6, PB 3/4 now corresponds to Teke 1/8 *wà/bé*: Similarly, gender 5/9 *lé/yè* derives from the merger of **11 > 5* and **10 > 9*.⁵

⁴ Proto-Bantu reconstructions are taken from Bastin et al. (2002).

⁵ The same **10 > 9* merger seems to have occurred in Latege, another B71 dialect (Ruth Raharimanantsoa and Pauline Linton, p.c.), but not in Kukuya (Paulian 1975), Ngungwel, or Eboo

Table 6: Gender *wà/bé* (*3/4 > 1/8)

PB (sg./pl.)		Teke (sg./pl.)			
*3/4		1/8 <i>wà/bé</i>			
*mò-nòà gò-	*mì-nòà gí-	ò-nywà wà	è-nywà bé	'mouth'	
*mò-gòndà gò-	*mì-gòndà gí-	ò-kùunà wà	è-kùunà bé	'field'	
*mò-kídà gò-	*mì-kídà gí-	ò-kílà wà	è-kílà bé	'tail'	
*mò-tímà gò-	*mì-tímà gí-	ò-tímà wà	è-tímà bé	'heart'	

Table 7: Gender *lé/yè* (*11/10 > 5/9)

PB (sg./pl.)		Teke (sg./pl.)			
*11/10		5/9 <i>lé/yè</i>			
*lò-dèdù ló-	*Ñ-dèdù yí	lè-ndèli lé	n(-)dèli yè (*yé)	'beard'	
*lò-cádà ló-	*Ñ-cádà yí	lè-sálà lé	n(-)tsálà yè (*yé)	'feather'	

As discussed above, these mergers appear to be the result of regular sound changes affecting noun prefixes, e.g. the loss of the initial consonant, followed by the realignment of agreement patterns, as illustrated in Table 8 for the *4 > 8 merger:

Table 8: Hypothesized steps of *4 > 8 merger

4 *mì-kídà gí-	>	4 ì-kídà gí-	>	(...)	>	8 è-kídà bé
8 *bì-dìbà bí-	>	8 ì-dìbà bí-	>	(...)	>	8 è-dià bé

The origin of 5/9, and 9/6 can be traced back to class/gender reassignment following the consequences of the *10 > 9 merger, i.e. the loss of a number distinction of N- initial nouns. This again shows the importance of a prior prefix merger in motivating changes in noun class assignments. Former *9/10 nouns could have become a number-insensitive 9/9 gender, but did not. Instead, the *10 > 9 merger led to a class/gender reassignment based on the semantic property of animacy. Animate *9/10 nouns were reassigned to 1/2 *wà/bá*, merging with the human nouns in that class, as shown in Table 9.

(Ruth Raharimanantsoa p.c.). This merger thus seems to be a characteristic of B71 dialects only.

Table 9: Animate *9/10 > 1/2 wà/bá (+ 1 case of 5/2 lé/bá)

PB (sg./pl.)		Teke (sg./pl.)		
*9/10		1/2 wà/bá		
*Ñ-jàmà yì-	*Ñ-jàmà yí-	nyàmà wà	à-nyàmà bá	‘animal’
*Ñ-jògò yì-	*Ñ-jògò yí-	n(-)dzòò wà	à-ndzòò bá	‘elephant’
*Ñ-bóà yì-	*Ñ-bóà yí-	m(-)bvà wà	à-mbvà bá	‘dog’
*Ñ-gòmbè yì-	*Ñ-gòmbè yí-	n(-)gòmbè wà	à-ngòmbè bá	‘cow’
*Ñ-gàndó yì-	*Ñ-gàndó yí-	n(-)gàndí wà	à-ngàndí bá	‘crocodile’
*Ñ-gòì yì-	*Ñ-gòì yí-	n(-)gò wà	à-ngò bá	‘leopard’
*Ñ-gòmbá yì-	*Ñ-gòmbá yí-	n(-)gùùmà wà	à-ngùùmà bá	‘porcupine’
*Ñ-kímà yì-	*Ñ-kímà yí-	n(-)kímà wà	à-nkímà bá	‘monkey’
*Ñ-gùbó yì-	*Ñ-gùbó yí-	n(-)gùbú	à-ngùbú bá	‘hippo’
*Ñ-pókò yì-	*Ñ-pókò yí-	m(-)púù wà	à-mpúù bá	‘rat’
*Ñ-pídi yì-	*Ñ-pídi yí-	m(-)píli wà	à-mpíli bá	‘snake sp.’
*Ñ-cúì yì-	*Ñ-cúì yí-	n(-)tsú wà	à-ntsú bá	‘fish’
		5/2 lé/bá		
*Ñ-jònì yì-	*Ñ-jònì yí-	lè-nyònì lé	à-nyònì bá	‘bird’

As also seen, one noun, *lè-nyònì* ‘bird’, shifted into class 5 *lè/má*. On the other hand, inanimate *9/10 nouns either became 9/6 *yè/má* (plural reassignment only) or 5/6 *lè/má* (complete gender reassignment), as shown in Table 10.

Table 10: Inanimate *9/10 > 9/6 yè/má or 5/6 lè/má

PB (sg./pl.)		Teke (sg./pl.)		
*9/10		9/6 yè/má		
*Ñ-jàdà yì-	*Ñ-jàdà yí-	n(-)dzàlà yè	à-ndzàlà má	‘hunger’
*Ñ-jòngò yì-	*Ñ-jòngò yí-	n(-)dzùngù yè	à-ndzùngù má	‘pot’
*Ñ-jidà yì-	*Ñ-jidà yí-	n(-)dzilà yè	à-ndzilà má	‘path’
		5/6 lé/má		
*Ñ-gì yì-	Ñ-gì yí-	lè-ngìngì lé	à-ngìngì má	‘fly’
*Ñ-dóngó yì-	Ñ-dóngó yí-	lè-ndúú lé	à-ndúú má	‘pepper’
*Ñ-tódò yì-	Ñ-tódò yí-	lè-ntúlù lé	à-ntúlù má	‘chest’

In addition, a few *9/10 inanimate nouns became either 1/8 *wà/bé* or 5/9 *lé/yè*, as can be seen in 11.

Finally, a few former *9/10 nouns alternate between 5/6 *lè/má* and 5/9 (< *10)

Table 11: Inanimate *9/10 > 1/8 wà/bé or 5/9 lé/yè

PB (sg./pl.)		Teke (sg./pl.)			
*9/10		yè/má			
*Ñ-gòdí yì-	Ñ-gòdí yí-	ò-ngòrí wà	è-ngòrí bé	'liana'	
		lé/yè			
*Ñ-jògós yì-	Ñ-jògós yí-	lè-ndzú lé	n(-)dzú yè	'groundnut'	
*Ñ-kíngó yì-	Ñ-kíngó yí-	lè-nkíí lé	(n)kíí yè	'neck'	

lé/yè, e.g. *lè-mpàmbù lé / à-mpàmbù má mpàmbù yè* 'worm'. Note that all former *9/10 nouns reassigned to 1/2 wà/bá, 5/6 lè/má, 9/6 yè/má, 1/8 wà/bé, or 5/9 lè/yè have kept the historical N- prefix. The cause of all of the above *9/10 class/gender reassignments is presumably the need to maintain a singular/plural distinction, with animacy exploited as the guiding criterion for reassignment.

Animacy plays a potential role in other places in the Teke noun class system. Recall that singular nouns marked by the prefix ò- today may represent the merger of PB *1 and *3 (with the same agreements) or class *14 (which its distinct agreements). From the semantics one can almost perfectly predict whether an ò-prefixed noun will be in gender 1/2, 1/8 or 14/8. As before, animate nouns will all be in 1/2. Inanimates will either be in 14/8 bó/bé if they represent an abstract quality (as in PB *14), otherwise in 1/8 wà/bé. Representative examples are provided in Table 12.

Table 12: Animacy-based gender assignment of ò- nouns

Animate → 1/2 wà/bá					
ò-lúmì	'husband'	→	ò-lúmì wá	/	à-lúmì bá
ò-tèé	'Teke person'	→	ò-tèé wá	/	à-tèé bá
Abstract → 14/8 bó/bé					
ò-bvwòó	'fear'	→	ò-bvwòó bó	/	èm-bvwòó bé
ò-yúú	'poverty'	→	ò-yúú bó	/	è-yúú bé
Concrete inanimate → 1/8 wà/bé					
ò-bá	'palm tree'	→	ò-bá wà	/	è-bá bé
ò-sià	'rope'	→	ò-sià wà	/	è-sià bé

Table 13 shows the number of animate nouns that occur in each gender: Reconcile with Table 3 Table 15 shows the number of animate nouns that occur in

each gender:

Table 13: Genders and animacy: [bracketed number = nouns with human referent]

		Animate [incl. human]	Inanimate	Total
1/2	wà/bá	73 [34]	6	79
5/2	lé/bá	1	0	1
1/8	wà/bé	5 [1]	47	52
14/8	bó/bé	0	18 (abstract)	18
5/6	lé/má	9 (insects, 'frog', 'tortoise')	83	92
5/9	lé/yè	2	10	12
7/8	ké/bé	11 [5, kin]	43	54
9/6	yè/má	0	45	45
Total : 356				

As seen, the total number of animates is 101 out of 353 total nouns. Of these 101, 73 occur in 1/2 *wà/bá*. In fact, virtual all humans are in 1/2. Of the rest only 28 animate nouns occur outside 1/2. Interestingly, no animate noun has a class 9 *yè* singular (gender 9/6 *yè/má*). All PB *9/10 animate nouns were reassigned, mostly to 1/2 *wà/bá*.

To conclude this section, we note with considerable interest the variation in former *11 (and some *9) nouns that have been reassigned to class 5 *lé*: These have kept the former class 10 plural N- form, even though it has the L tone agreement *yè* of *9. However, as we have noted, an N- noun is ambiguous in terms of number, and may be interpreted either as singular or as plural. It can be the plural class 9 of a class 5 *lé* singular (from *11) or the singular of 9/6 *yè/má* and 1/2 *wà/bá*. In addition, nearly half of class 5/6 nouns alternate between a prefixed *lè-* and a \emptyset or N- singular form, approximately half in our lexicon occur without *lè-*. (Recall that all 5/9 nouns require *lè-* on their singular.) This is illustrated in Table 14.

As a result this has produced several cases where the same N- noun can be interpreted as either singular or plural, paired with an appropriate noun class of opposite number, as shown in Table 15.

5 Conclusion

As seen above, an identical prefix shape, here N-, can not only lead to merger of noun classes (e.g. class *1 and *3, *4 and *8, *5 and *11), but can cause a noun to

Table 14: *lè-* vs. \emptyset sg. prefix in 5/6 *lé/má* nouns

Optional \emptyset		
(<i>lè-</i>)m(-)pèi lé	/	à-m(-)pèi má ‘chin’
(<i>lè-</i>)sàáni lé	/	à-sàáni má ‘plate’
Obligatory \emptyset		
(* <i>lè-</i>)kfúru lé	/	à-kfúru má ‘hole’
(* <i>lè-</i>)bilà lé	/	à-bilà má ‘leprosy’

Table 15: N- nouns as singular or plural

Plural class 9 <i>yè</i> (singular = class 5 <i>lé</i>)		
<i>lè-</i> m(-)bàlà lé	/	m(-)bàlà <i>yè</i> ‘civet cat’
<i>lè-</i> ŋ(-)kíi lé	/	ŋ(-)kíi <i>yè</i> ‘neck’
Singular class 5 <i>lé</i> (plural = class 2 <i>bá</i> if animate)		
m(-)bàlà lé	/	à-m(-)bàlà <i>bá</i> ‘civet cat’
Singular class 5 <i>lé</i> (plural = class 2 <i>má</i> if inanimate)		
ŋ(-)kíi lé	/	à-ŋ(-)kíi <i>má</i> ‘leprosy’

function in two different genders, one as a singular, the other as a plural. This too can be expected to lead to further realignments as the noun classes prepare for their next move.

In the preceding sections, we have seen that the Teke noun class system has undergone important restructuring with loss of eleven of the nineteen PB classes, four class mergers, and many gender reassignments. As we have shown, only three out of eight genders are inherited from PB. Three variables have played an important role in this evolution: (i) prefix shapes; (ii) animacy; (iii) number. Number and animacy have played a major role in this restructuring, in particular in the class and gender reassignment of PB *9/10 nouns. These become 1/2 *wà/bá* if animate, 5/6 *lé/má* or 9/6 *yè/má* if inanimate (occasionally also 1/8 *wà/bé* and 5/9 *lé/yè*). Animacy also plays an important role in synchrony. As we have shown, singular *ò-* is interpreted as 1/2 *wà/bá* if animate, 14/8 *bó/bé* if abstract, and 1/8 *wà/bé* if concrete inanimate. In addition, *à-N-* is unambiguously class 2 *bá* if animate, class 6 *má* if inanimate. The relevance (and potential conflict) of animacy in the synchronic and diachronic marking of noun classes has been discussed elsewhere in Bantu (Wald (1975), Maho (1999), Contini-Morava (2008), among

others), even to the extent of entirely replacing the inherited noun class system, as in Nzadi (Crane, Hyman & Nsielanga Tukumu 2011). What is particularly interesting in the Teke case is the conspiracy between prefix shape and animacy. Noun classes are reassigned on the basis of animacy. As prefixes merge, noun class agreements merge, even those accompanying singular and plural 9/10. This shows that Teke speakers are paying attention not only to the semantics, but are impressively influenced by the forms. Such interplay in the reassignments which we have enumerated should be considered in probing parallel noun class changes in other Northwest Bantu and Niger-Congo in general.

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