### **CHAPTER 3**

### OVERVIEW OF THE LANNA ORTHOGRAPHY

#### 3.0 Introduction

This chapter will provide an overview of the Lanna orthography. There are three sections in this chapter. The first one deals with Kammuang and the Lanna sound system: consonants, vowels, and tones. The second section is a brief overview of the Lanna script consonant classes. The third and perhaps most important section in this chapter describes some of the problems Kammuang speakers experience when they are learning to read and write the Lanna script.

#### 3.1 Consonant sounds

There are twenty consonant phonemes in the Lanna script. Table 1 shows the consonants with their corresponding letters in the Lanna script and the Thai script (the Lanna script is on the left, Thai on the right). One consonant phoneme that appears in the Lanna script but does not occur in the Thai language is the palatal nasal  $/\eta$ . However the Lanna script lacks two consonant phonemes  $/t \int^h /$  and /r/ that appear in Thai (Kobkan and Messenger, 1995: 10). Several phonemes are represented by more than one letter (e.g. /p/, /t/, /c/, /k/), due to tonal constraints that will be discussed in section 3.4.1. In addition, many Lanna letters are pronounced differently from the Central Thai letters with which they are typically transcribed in scholarly works, as will be discussed in section 3.5.1.

	Bilabial	Labiodental	Alveolar	Palatal	Velar	Glottal
Stops						
Voiced	/b/		/d/			
	υυ		2 0		,	
Voiceless Unaspirated	/p/		/t/	/c/	/k/	/?/
Спартало	ป ป		ឧ រា	<b>O</b> 9	က ဂ	E3, n
	с п		တ ၈	e a	C) A	
			G 71			
Voiceless Aspirated	/p <sup>h</sup> /		/t <sup>h</sup> /	4	/k <sup>h</sup> /	
7 Ispirated	ย		S 4	7-7	a 1	
	ဘ ဂ		<b>ទ</b> ព		6 m	
			S) M		නා #	
			ထ ရ			
Fricative		/f/	/s/			/h/
		(p) M	බ 12			So
		ध ॥	୍ଟ ନ			со и
			ਹੁਡ ਖ਼			
	_	7	သေ ၈			
		7	<b>6</b> 1			
			ଯା ଖ			

Nasal	/m/	/n/		/η/		/ŋ/	
	ਬ ਮ	Ω	น	ည	ល្ <sup>3</sup>	۵ ×	
		ഹ	ณ	w	ମ		
Lateral		/1/				1	
		2	វ			4	
		$\infty$	ର		1		
		ව	พั			<b>Y</b>	
Semivowel	/w/			/j/			
	O 3			ಟ	อย		

Table 1: Consonants represented in the Lanna script

## 3.2 Vowel sounds

The Lanna script has eighteen phonemic vowels and six diphthongs. (Renu, 2000: 10).

# 3.2.1 Single vowels

The Lanna script recognizes eighteen vowel sounds. The inventory of these vowel sounds is the same as in Thai. The single vowels have phonemically distinct short and long forms and can be divided into two groups: nine short vowels and nine long vowels (Table 2) (Renu, 2000: 10).

 $<sup>^3</sup>$   $_{\rm Q}$  is Thai script that represent the Kammuang consonant phoneme / $\eta$ / even though its pronunciation is different from / $\eta$ /. Normally if Northern Thai people pronounce / $\eta$ /, they will think of the Thai consonant  $\eta$ .

	Front		central		back	
	Short	long	short	long	short	long
High	/i/	/i:/	/ <u>i</u> /	/i:/	/u/	/u:/
	၈ -	ବା -	ം -	ි -	-	-
	อิ	อี	อื่	ขึ้	ପ୍	ପୁ
Mid	/e/	/e:/	/ə/	/ə:/	/o/	/o:/
	ଚ- ଃ	6-	೯ <u>-</u> ೩	e- e- e- e-	{-3, -	ໂ-, ຄ-ວ
	l-2	<b>l</b> -	เ-อะ	เ-อ	1-z	ີ່ ໂ-
Low	/ε/	/e:/	/a/	/a:/	/ɔ/	/ɔː/
	ଚଚ-३	ଚଚ-	-3, -	- ၁	{ - 3	· ,
	u-5	ff-	-ะ, อั	-1 )	เ-าะ	-ପ

Table 2: Single vowels represented in the Lanna script

# 3.2.2 Diphthongs

The Lanna script recognizes six diphthongs<sup>4</sup>: three short diphthongs and three long diphthongs, as shown in Table 3 (Renu, 2000: 11).

<sup>&</sup>lt;sup>4</sup>Most linguists believe that there are three diphthongs because the short and long varieties occur in complementary distribution. This paper, however will separate long and short diphthongs in order to make the explanation clearer, and because all six are represented in the orthography.

F	ront	Ce	ntral	Ba	ck
short	Long	short	long	short	long
/ia/	/i:a/	/ɨa/	/ɨ:a/	/ua/	/u:a/
-၂ ႏ	e-j, -j-	િન્દુ°દ∂ર,	ଟ-ୂ ଧ୍ୱେ,	- 3 O	ō
เอียะ	เอีย	೯ೄ ಚಾಸ <sup>5</sup>	<sub>ဗ</sub> ို့ မှ <sup>6</sup>	อัวะ	อัว
		เอื้อะ	เอื้อ	4	

Table 3: Diphthongs represented in the Lanna script

## 3.2.3 Hybrid symbols

There are four hybrid sounds represented in the Lanna script, as shown in Figure 6. The first two examples are vowel-nasal consonant combinations. The third and fourth examples are vowels followed by semivowels.

 $<sup>^{5}</sup>$  This diphthong is used by Chiang Mai scholars because they try to adjust the vowel to be similar to the corresponding Central Thai vowel.

<sup>&</sup>lt;sup>6</sup> This diphthong is used by Chiang Mai scholars because they try to adjust the vowel to be similar to the corresponding Central Thai vowel.

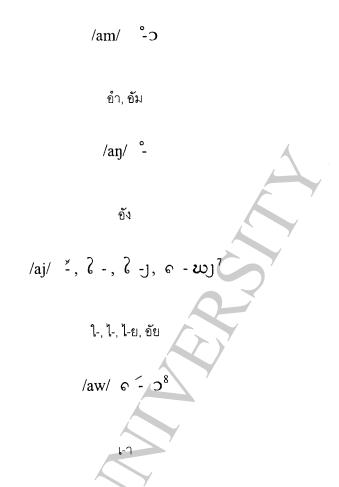


Figure 6: Hybrid symbols

## **3.3 Tones**

The Lanna script reconizes six phonemic tones, as opposed to five in Thai. There is great regional variation in the contour of the tones. In this paper, the tones of the Chiang Mai variety will be used. Figure 7 gives a visual representation of each tone's contours. The tones are as follows:

<sup>&</sup>lt;sup>7</sup> This hybrid symbol  $\mathfrak{s}$ - $\mathfrak{w}$ ) is borrowed from the Pali language. This symbol is used in Pali loanwords.

 $<sup>^{8}</sup>$  While /aj/ and /aw/ are technically diphthongs, the Lanna orthography interprets them as a single vowel plus a single consonant.

- 1) Mid-level (3-3). There is no symbol used to express this tone. /a/
- 2) Low-falling (2-1). The symbol of this tone is /à/
- 3) High-falling (4-2). The symbol of this tone is /â/
- 4) High-rising (4-5). The symbol of this tone is /á/.
- 5) Low-rising (2-4). The symbol of this tone is  $/\check{a}/$ . There are two varieties of this tone. The first variety begins at level 2 and stays level until near the end of the syllable, when it rises to level 4. This kind occurs in the word  $k^h\check{a}$ : $\eta$  'to stretch out' for example. The second variety starts at level 2 and rises immediately up to the level 4. This kind of tone occurs in the word  $c\check{i}$ ? 'to touch,' for example.
- 6) High-level with glottal closure. This tone does not occur in Central Thai. The sound level from the beginning until the end of the syllable will be at level 4 but at the end of the syllable the sound will fall slightly and the glottis will close. An example of this kind of tone is  $k^h\tilde{a}xw$  'rice'. The symbol for this tone is  $/\tilde{a}/$  (Renu, 2000: 13-14)

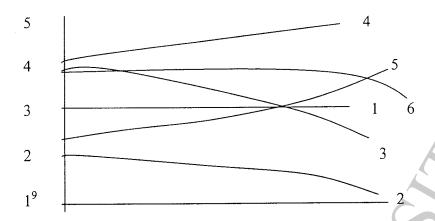


Figure 7: Tones of Kammuang (Chiang Mai) (Renu 2000: 14)

# 3.3.1 Tone in the Lanna script

The Lanna writing system is different from the Thai writing system because the Lanna writing system has only two tone marks, the ones equivalent to Thai  $m\acute{aj}$   $?\grave{e}:k$  and  $m\acute{aj}$   $t^ho:$ , as shown in Table 4. The first tone may be referred to by any of three names.

<sup>&</sup>lt;sup>9</sup> The number 5,4,3,2 and 1 indicate the tone level.

Tone Mark	Name	Thai Equivalent	Function
ı	/máj jš?/ <sup>10</sup>	ไม้เอก	low-falling or high- falling (depending on
		/máj ?è:k/	initial consonant) for
			example, $\dot{\beta} \cap k^h u : a\eta$
			'area, open field', 🖒
			area, open field, wid
			nâ:w 'stupid', or
			cû:aj 'to help'.
ν	/máj k <sup>h</sup> ð: cá:ŋ/	ไม้โท	high-falling, high- rising or high-level
		/máj t <sup>h</sup> o:/	with glottal closure
			(depending on initial consonant), for
			example, Š ká:n 'to
			lose', జోద్వ
			$k^h \hat{\imath}: k^h \acute{a}: n$ 'lazy', or
			ຄສັ່ວ kʰãw ˈriceˈ.

Table 4: Lanna tone marks

The realization of Lanna tones is determined by several factors, including initial consonant, tone mark (if any), vowel length, and final consonant (if any). Actually, the rules for combining the tone marks and letters in Lanna are quite similar to those for Thai (Kobkan and Messenger, 1995: 35).

Nonetheless, it will be noted that the tone marks above only account for four tones (low-falling, high-falling, high-rising and high-level with glottal closure). The midlevel and low-rising tones are not indicated by tone marks, but rather by the inherent

<sup>&</sup>lt;sup>10</sup>/máj jš?/ is the common name for this tone. Two other possible names are /máj jǎk/ and /máj jò:t/. Kobkan and Messenger (1995) and Udom Rungruengsri (1985) mention all three names in their books.

qualities of the class of word initial consonant (see section 3.4). Thus the six contrasting tones can be demonstrated as follows:

ဂါ	ထ်၁	င်္ဂာ	<b>ന്</b> റ	ဂံ၁	ထ၁
คา	ก่า	ค่า	ก้า	ค้า	กา
/ka:/	/kà:/	/kâ:/	/kã:/	/ká:/	/kă:/

### 3.4 Consonant classes

Both the Central Thai and Lanna orthographies have three classes of consonants. However, the consonants in each class are not exactly the same. Table 5 shows the consonant classes of Lanna, the Lanna script consonants in each class, the name of each consonant, and the Thai equivalent. (Kobkan and Messenger, 1995: 27)<sup>11</sup>

15 Hi	gh				4 Mi	id	4		23 L	ow			
	rent To	ne: Risi	ng)				Γone: Lo	evel)	(Inherent Tone: Level)				
							$\rightarrow$						
က	ສ	Ð	ක	ಬ	5	υ*	ย์	£3,	C	6	නා	റ**	<b>B</b>
kă?	$k^h$ ă?	că?	să?	lată?	dă?	bă?	jă?	?ă?	ká?	k <sup>h</sup> á?	k <sup>h</sup> á?	ŋá?	cá?
ก	ข	ৰ	ฉ	IJ	ด	บ	อย	<del>0</del>	P	P	ม	9	ช
සු	တ	ය	J	ೞ		)			٦	ຍ	ည	න	ഹ
lat <sup>h</sup> ăî	tă?	t <sup>h</sup> ă?	pă?	p <sup>h</sup> ă?		Y			sá?	sá?	ηá?	lat <sup>h</sup> á?	laná?
F.	Ø	ព	ป	ผ	V	7			ช	ឋា	ល្ង	M	ณ
ਬ	ਰ	သ	သ	တ	<b>Y</b>				G	۵	Ω*	* m	ස
fă?	să?	să?	să?	hă?					tá?	t <sup>h</sup> á?	ná?	pá?	fá?
el	РÍ	<b>1</b> 살	ส	ห					ท	ថ	น	W	W
				Y									

<sup>&</sup>lt;sup>11</sup> It should be noted that the actual phonemic values of some of the Lanna letters differs from the phonemic values of their Thai equivalents. This will be discussed further in section 3.5.1.

ာ မ∗∗ ဃ∗∗ ଚ∗∗ လ∗∗
p <sup>h</sup> á? má? ná? lá? lá?
រា ឯ ម រ គ
0 ** 6 8
wá? lá? há?
J M B

Notes:

- \* when the consonant  $\upsilon$  is used in the words borrowed from the Pali or Sanskrit languages, it will be pronounced /p/ rather than /b/ and has an inherent rising tone.
- \*\* These seven low class consonants can be made to behave as high class consonants when they are preceded by the consonant /h/  $\infty$ , as is the rule for the Central Thai  $\nu$ . In such cases, the /h/  $\infty$  is silent, impacting only tone.

Table 5: Lanna consonant classes

# 3.4.1 The corresponding phonemes of Lanna high class and low class letters

Table 6 shows the corresponding high and low class Lanna letters. It will be noted that the same phoneme may be represented by several letters. However, the low and high class letters carry a different inherent tone in the writing system (see Table 5). There are six low-class Lanna letters that can be made to behave as if they were high-class Lanna letters having the consonant /h/  $\infty$  (Central Thai  $\nu$ ) precede them. In

such cases, the /h/  $\infty$  is silent, impacting only tone.

High cl	lass		Phoneme	Low cl	ass	
(n)	က	/kǎ?/	/k/	(ค)	C	/ká?/
(웹)	a	/k <sup>h</sup> ǎ?/	/k <sup>h</sup> /	(A)	6	/k <sup>h</sup> á?/
				(\$1)	නා	/kʰáʔ/
(৭)	Ð	/că?/	/c/	(1)	E	/cá?/
(Ū)	ຍ	/lată?/	/t/	(n)	G	/tá?/
(Ø)	တ	/tǎ?/				
(মু)	ගු	/lat <sup>h</sup> ă?/	/th/	(M)	න	/lat <sup>h</sup> á?
(ຄ)	ය	/t <sup>h</sup> ǎ?/		(fi)	۵	/tʰáʔ/
(1)	J	/pă?/	/p/	(W)	က	/pá?/
(N)	ಟ	/p <sup>h</sup> ǎ?/	/p <sup>h</sup> /	(v)	ဘ	/pʰáʔ/
(N)	ਰ	/fǎ?/	/f/	(M)	6	/fá?/
(ପ)	ක	/sǎ?/	/s/	(4)	6	/sá?/
(A)	d /	/să?/				
(1박)	<b>)</b> 3	/sǎ?/		(th)	ຍ	/sá?/

(ন)	သ	/sǎ?/				
(ম)	$\sim$	/hǎ?/	/h/	(ฮ)	So	/há?/
(หง)	Sc	/ŋă?/	/ŋ/	(1)	ಎ	/ŋá?/
(หน)	$\sim$	/nă?/	/n/	(น)	8	/ná?/
				(ณ)	<b>ಿ</b>	/laná?/
(หม)	Sc	/mǎ?/	/m/	(n)	u	/má?/
(หล)	SS	/lǎ?/	/1/	(ନ)	00	/lá?/
			<i>/</i>	(3)	2	/lá?/
				(N)	8	/lá?/
(หย)	လျ	/ŋǎ?/	/n/	(ध)	ພ	/ŋáʔ/
				(ญ)	ත	/ŋá?/
(หว)	လွ	/wă?/	/w/	(3)	О	/wá?/

Table 6: High class and low class Lanna letters

## 3.4.2 Middle class

Only three tones can be represented with the mid-class consonants (a) 2/då?/, (u) bå?/, (al) 5/jå?/ and (a) 5/jå?/. Thus the three tones of the mid-class consonants can be demonstrated as follows (Lamoon, 1999):

ୟଠ	<mark></mark> န်၁	နေ့၁
อา	อ่า	<b>อ</b> ้า
/?a:/	/?à:/	/?ã:/

# 3.5 Problems Kammuang speakers experience when they learn the Lanna script

Since the purpose of this thesis is to examine language attitudes, it is important to know how difficult it is for Kammuang-speaking youth to learn the Lanna script. If the Lanna script is exceedingly difficult to learn, it could contribute to negative attitudes to the Lanna script. Conversely, if Kammuang-speaking youth find it easy to read the Lanna script, their attitudes should be more positive.

# 3.5.1 Lanna letters which do not correspond to their Central Thai equivalents

One of the difficulties of Kammuang speakers is dealing with nine Lanna letters O,

ສ, ຜ, ໝ, ໝ, ສ, ໝ and p, which are pronounced differently from the

Central Thai letters with which they are typically transcribed in scholarly works, including all current Lanna textbooks. Table 7 gives some examples.

Lanna letters and values	Central Thai transcriptions and values	Example
1) O /k/	ค /kʰ/	റ്3 /ká:n/ ≠ ค้าน /kʰá:n/
2) 🕿 /c/	v /tʃ <sup>h</sup> /	ຂັວ /cá:/ ≠ ซ້າ /tʃʰá:/
3) ⑤ /t/	η /t <sup>h</sup> /	დূঁດ /tɔ́ːŋ/ ≠ ท้อง /tʰɔ́ːŋ/

4) co /p/	м /p <sup>h</sup> /	තු /pít/ ≠ ඹිප /pʰít/
5) ක /s/	จ /t∫ʰ/	ລື /sǐ:k/ ≠ ฉีก /tʃʰĭ:k/
6) <b>Q</b> /s/	ល /tʃʰ/	ຎວບດ /sa: pà? nâ?/ ≠
		ฌาปนะ /tʃʰa: pàʔ nâʔ/
7) 5 /1/	3 /I/	ຣວດါ /la: ka:/ ≠ ราคา
		/ra: k <sup>h</sup> a:/
8) w /n/	ម /j/	ນຼ້ /ຖáŋ/ ≠ ຍັ້ /jáŋ/
9) 20 /n/	ญ /j∕	ညວတີ /ຖâ:t/ ≠ ญาติ /jâ:t/

Table 7: Lanna letters pronounced differently from their Central Thai equivalents

Kammuang speakers may have difficulty dealing with these consonants when they learn to read or write the Lanna script. This is because the most widely used system for transcribing Lanna into Central Thai was developed by scholars for precise technical works in which it is important to be able to represent the original Lanna letters. However, this technical system does not correspond to the intuitions of Northern Thai people. For example, Central Thai has one letter for /k/, n. Lanna has two:  $\infty$  and n. The scholarly transcription writes the first as n/k/ and the second as n - a Thai letter which is pronounced n/k/. Thus when Kammuang speakers want to

e - a Thai letter which is pronounced /k<sup>n</sup>/. Thus when Kammuang speakers want to learn the Lanna script using existing Lanna study books (all written by scholars using the scholarly transcription), they have to forget many things about Central Thai. This problem could easily be solved by using a more phonemic, practical orthography in Lanna textbooks. Many scholars, however, are unwilling to abandon the technical script.

## 3.5.2 Initial consonant clusters in the Lanna script

Many words are written in the Lanna script with two initial consonants. However, in spoken Kammuang the word is pronounced with a single initial consonant (Kobkan and Messenger, 1995: 12). Thus when Kammuang speakers are asked to write these words, they may write them without the cluster. They have to learn which words are written with initial consonant clusters. In his handbook of comparative Tai, Fang Kui Li (1977) posits complex consonant clusters for Proto-Tai. Modern Tai languages have simplified these clusters. Perhaps Kammuang had complex consonant cluster when the Lanna orthography was developed, and lost them in the future development of the spoken language. Table 8 contains examples of words that are written with initial clusters but pronounced with single consonants.

Phonetic transcription of Modern spoken Kammuang	The Lanna script	IPA transliteration of the Lanna script	Translation
<u>k</u> hum	င်္ဂမ	<u>k<sup>h</sup>l</u> um	to cover
pɔ̃:m	ರ್ಷ ನಿ	<u>pl</u> š:m	to counterfeit, to forge
p <sup>h</sup> ě:	೯೯೮	p <sup>h</sup> lĕ:	a wound, a sign of damage
<u>k</u> ă:ŋ tóŋ	ထိုသို့ဖြ	klain tón	the middle of a field

Table 8: Words written with initial clusters but pronounced as single consonant

From these examples, we can see that spoken Kammuang and written Lanna are different in terms of the use of clusters. The word  $\sup$  is transliterated  $p^h l \check{\epsilon} :$  'a wound' with a cluster, but in Kammuang it is pronounced without the cluster  $p^h \check{\epsilon} :$  Another word  $\sup$   $\check{\epsilon}$  is transliterated as  $k l \check{\epsilon} : l \check{\epsilon} :$  'the middle of a field' but it is

pronounced  $k\check{a}:\eta$   $t\acute{o}\eta$ . Thus when Kammuang speakers try to write the word they pronounce  $p^h\check{\epsilon}$  as  $p^h\check{\epsilon}$ , they may write it incorrectly as only  $p^h\check{\epsilon}$ . Similarly,

Spoken Kammuang has no true consonant clusters other than ones in which /w/ is the second element. (Kobkan and Messenger, 1995: 13) There are eleven such consonant clusters in the more conservative Kammuang dialects: /tw/, /cw/, /kw/, /khw/, /?w/,

/nw/, / $\tilde{n}$ w/, / $\eta$ w/, /sw/, /lw/, and /jw/. Table 9 gives some examples:

Phonetic transcription of modern spoken Kammuang (conservative dialects)	The Lanna script	IPA transliteration of the Lanna script	Translation
k <sup>h</sup> wam	රිදු	k <sup>h</sup> wam	substance, essence, (noun- maker)
ŋwá:j	ක් <u>ට</u>	ŋwá:j	to turn back
?wàj nã:	<del>ဖ</del> ွဲ့၁)တွ်၁	?wàj nã:	to turn one's face

Table 9: Words with initial consonant clusters

Nonetheless, some dialects appear to be loosing the /w/ element of those clusters. As Ruengdet notes "In consonantal clusters with /w/, except /kw-/ and /khw-/, pronunciation of /w/ may be lost and some words are found to occur with some modification. For example, *swàry* 'to swing' becomes *sàry*, etc. in some localities" (Ruengdet, 1982: 5). Smalley (1994: 76) notes a similar phenomenon, although he claims that the clusters tend to remain intact following /s/ and /ŋ/. In any event,

modern speakers who have lost the /w/ may find it difficult to include the /w/ when writing Lanna.

#### 3.5.3 The use of as a final consonant

Many Kammuang words end with the alveolar nasal /n/. The consonants S and Q correspond to /r/ and /n/ in word initial location like the Thai 3 and u. There are two letters in the Lanna script that correspond to final /n/, s and  $\alpha^{12}$ . The problem for Kammuang speakers is choosing which consonant S (3), or Q (u) should be used in which word. According to Aj. Manop Panyo, words that end with /n/ should be written in the Lanna script using  $\circ$  (3), because the ancient Lanna people had this convention. However, there are rules that account for deciding which consonant should be used in the Lanna script between  $\circ$  (3) or  $\circ$  (u). Aj. Manop suggested that when there is nothing (no consonant, vowel or any symbol) below the word that is pronounced with final /n/, these words will be written by the use of Q (1) below the preceding consonant. If there is some consonant, vowel, or symbol written under the consonant already, these words will be written by the use of S (3). For example, the words เรื่อง หม่อง mòn 'father of grandfather' and เรื่อง เรื่อง hi:an 'house, home' occur in Thai as well, but in Thai these two words are written by the use of น e.g. หม่อ<u>น mòn</u> not หม่อง mòr and เรื่อ<u>น hi:an</u> not เรื่อง hi:ar. In Lanna, these two words have to use of as the final consonant because the preceding consonant already has another letter below it. An exception to this rule is เองอดาง อากาง ?a: kǎ:n 'symptom' where the of is itself written below the word. Two more examples of differences between the Lanna script spelling and Thai script spelling follow:

- 1. อาธ เรียร (final r) hi:an 'to study, to learn'
- 2. ลัง เพี่ยร (final r)  $k^h$  $\tilde{u}$ an 'to whip.'

In Thai, these two words are written as view rican and view  $k^h\hat{\imath}can$ . Thus new Lanna learners may be confused as to which consonant they should use  $\mathfrak{D}$  (3) or  $\mathfrak{Q}$  (u). If they know the rule it will be easier for them to decide which consonant should be used with certain words. Table 10 gives more examples of this problem:

<sup>&</sup>lt;sup>12</sup> The phonetic values of these letters in syllable initial position are r/ and r/, respectively. In syllable final position, however, they are both realized as r/.

Kammuang using Thai script	Phonetic transcription of modern spoken Kammuang	The Lanna script	Thai transliteration of the Lanna script	IPA transliteration of the Lanna script	Translation
เมี่ยน	k <sup>h</sup> ĩ:a <u>n</u>	<b>ప్ర</b> ం	វេឌ្ឍតរ	k <sup>h</sup> ı̃:a <u>r</u>	to whip
เมื่อลุน	mî:a lu <u>n</u>	<b>မ</b> ဦ့်အလု <sub>ခ</sub>	เมื่อลุร	mî:a lur	afterwards, after, later on
ย้อนจานั้น	ηό: <u>n</u> ca: nán	<b>ည့်</b> තකායු්	ย้อรชานั้น	ηόι <u>τ</u> ca: nán	for that reason
ย้อนจาอั้น	ηό: <u>n</u> ca: ?ãn	ည့်ရောၾွှံ	ย้อรชาอั้น	ηό <u>ιr</u> ca: ?ãn	for that reason
สูน	sǔ: <u>n</u>	သူဇ	ଖୁନ	sŭ: <u>r</u>	mix
หม่อน	mò <u>n</u>	-Sc Sc	หม่อร	mò <u>r</u>	father of grandfather
เฮียน	hi:a <u>n</u>	වාව	เรียร	ri:a <u>r</u>	to study, to learn
เฮือน	hɨ:a <u>n</u>	තවූීව	เรื่อร	rɨːa <u>r</u>	house, home

Table 10: Words that are spelled with S or □

Aj. Mongkhon Thuknuk has proposed a more complicated set of rules for the use of  $\mathfrak{D}(\mathfrak{I})$  (r) or  $\mathfrak{D}(\mathfrak{U})$  (n) as a final consonants. He says every word that is pronounced /n/ at the end of a syllable will be written by using the consonant  $\mathfrak{D}(\mathfrak{I})$  at the end of the syllable and  $\mathfrak{D}(\mathfrak{I})$  will be written beside the last vowel or consonant of the word as shown in Table 11.

Kammuang using Thai script	Phonetic transcription of modern spoken Kammuang	The Lanna script	Thai transliteration of the Lanna script	IPA transliteration of the Lanna script	Translation
เมี่ยน	k <sup>h</sup> ĩ:an	ဆ <del>ွ်</del> ခ	เพียร	k <sup>h</sup> ı̃:ar	to whip
เมื่อลุน	mî:a lun	<b>မရှို့အ</b> လ်ခ	เมื่อลุร	mɨ:a lur	afterwards, after, later on
เฮียน	hi:an	2)2	เรียร	ri:ar	to study, to learn
สูน	sŭ:n	ည်စ	ଖ୍ୟ	sŭ:r	mix
เฮื้อน	hi:an	වාදූීව	เรือร	ri:ar	house, home

Table 11: Words that are spelled only with S

However there are still some words that are pronounced /n/, but are not written using  $\mathfrak{D}(\mathfrak{I})$  at the end of the syllable. In the Lanna script, there are two ways of writing the final consonant: beside the last vowel or second to last consonant, or below the last vowel or second to last consonant. Aj. Mongkhon claims that words containing any of the fourteen vowels shown in Table 12, will take  $\mathfrak{Q}(\mathfrak{u})$  (n) as the final consonant

instead of  $\mathfrak{S}$  (5)  $(r)^{13}$ .

<sup>&</sup>lt;sup>13</sup> In Lanna, there is no exact rule that can apply in every case. The rules that Aj. Mongkhon mention are considered only general rules that the scholars accept and use in general.

/a/	/a:/	/i/	/i:/	/ <u>i</u> /	/i:/	/e/	/e:/
- 3	- O	၈ -	ം -	ი -	<u>-</u>	ଚ- ३	ଚ-
	/ε/	/ε:/	/o/	/o:/	/ə/	/əː/	<u> </u>
	ଚଚ-३	ଚଚ-	{- 3	<b>{</b> -	၈ <del>-</del> ့ း	6-5-	
					R		
			6 -	-ോ		6-	

Table 12: Fourteen vowels that cause the change of final consonant  $\operatorname{\mathfrak{S}}$  into  $\operatorname{\mathfrak{Q}}$ 

Table 13 shows some examples that use these vowels and the consonant  $\boldsymbol{\square}$  (u) as the

final consonant instead of  $\mathfrak{S}$  (3).

Kammuang using Thai script	Phonetic transcription of modern spoken Kammuang	The Lanna script	Thai transliteration of the Lanna script	IPA transliteration of the Lanna script	Translation
ย้อนจาอั้น	nó:n ca: ?ãn	<b>ນ</b> ູ້ອຣວຜູ້	ย้อรชาอั่น	nóir cai ?ãn	for that reason
ย้อนจานั้น	ηό:n ca: nán	<u>ကို</u> ့စစာဋိ	ย้อรชานั้น	nó:r ca: nán	for that reason

Table 13: Examples of vowel from Table 12 with the consonant Q as the final consonant instead of Q (7) (r).

However, there are exceptions to this rule. Even though some words use the above vowels, they are not written with Q(u) (n) at the end of the syllable. These words are written with silent O(h) (n) at the beginning of the word and have another consonant following it. These words will have O(n) (r) as the final consonant e.g. N

work hard'. This word uses the vowel /a/ but it is written with the consonant  $\approx$  (3) as the final consonant because it has  $\infty$  (h) (N) at the beginning of the word and has another consonant following it.

In summary then, modern Kammuang speakers may find it difficult to know whether to use  $\mathfrak{D}$  (?) (r) or  $\mathfrak{Q}$  (u) (n) word finally. They must memorize rules to determine proper usage.

### 3.5.4 The use of sas an initial consonant

Another problem is the use of the consonant  $\mathfrak{S}$  (3) (r) as an initial consonant in the Lanna writing system. Such words are pronounced /h/ or /l/. The Thai phoneme /r/ which corresponds to the consonant  $\circ$  (3) (r) does not occur in Kammuang. It is always replaced by the phoneme /h/ or /l/. Therefore, it corresponds to the phonemes /h/ and /l/ in the Lanna script under the conditions discussed below. 14 This is a problem for learners because when they pronounce the words in Table 14, they may written Lanna script. Thus the word ŠOJ rá:j will be changed to ŠOJ há:j, following the spoken language. Therefore, the words in Table 15 also have the same problem as the words in Table 14. When the learners pronounce them, they may write the consonant  $\infty$  a (1) following the way they speak instead of  $\infty$  (7) (r) as in the written Lanna script. Thus the word ອາດາ ra: ka: would be changed to ໙າດາ la: ka:, following the spoken language.

<sup>&</sup>lt;sup>14</sup> Following Ruengdet (1982: 7-8)

In all cognate words, the phoneme r in Thai that represents the consonant r (7) in Lanna becomes the phoneme /h/ in corresponding words in Kammuang. (See Table 14)

Kammuang using Thai script	Phonetic transcription of modern spoken Kammuang	The Lanna script	Thai transliteration of the Lanna script	IPA transliteration of the Lanna script	IPA of written Thai	Translation
กำไฮ	kăm <u>h</u> aj	င်္ဂာါဇ	คำไร	kam <u>r</u> aj	kam raj	profit
ฮักษา	<u>h</u> ák să:	క్ష్మాం	รักษา	rák să:	rák să:	care for, to treat, to look after, to look out for
ฮ้าย	<u>h</u> á:j	ຮ້ວງ	ร้าย	rá:j	rá:j	bad, evil, harmful
อีม	<u>h</u> im	600 600	ริม	rim	rim	edge, rim, side, by the side of, close by
อี	<u>h</u> u:	5 %	3	<u>r</u> u:	ru:	hole
<u> </u>	<u>h</u> ú:	Š	چرارچو ا	rú:	rú:	to know, be acquainted with
រ្សិក	<u>h</u> û:p	ລູບ 🤇	รูบ	<u>r</u> û:p	rû:p	picture, image
เฮา	<u>h</u> aw	රේව	เรา	<u>r</u> aw	raw	we, us
เฮียน	<u>h</u> i:an	sjs	เรียว	<u>r</u> i:ar	ri:an	to study, to learn
. <u>ខ</u> ឹ០	<u>h</u> i:a	<u> లప్లొణ</u>	เรือ	ri:a	r <del>i</del> :a	boat
	Q	Table 14:	Examples of cogn	ate words		

Note: The letter  $\circ$  is pronounced as the sound /h/  $\circ$ 3.

Modern Kammuang has been influenced by Central Thai. However in these recent loan words Central Thai /r/ is realized as Kammuang /l/, as shown in Table 15. This could cause problems for new learners. Thus, some older words have fallen out of use, being replaced by similarly sounding Central Thai words.

Phonetic transcription of modern spoken Kammuang	The Lanna script	IPA transliteration of the Lanna script	IPA of written Thai	Translation
căm <u>l</u> ə:n	ဝိ၁၈၆ည	càm rə:n	căm <u>r</u> ə:n	to prosper, to grow
bo: lí bu:n	ပွဲခၽွခ	bu:a rà? mu:ar	bo: rí bu:n	complete, perfect, absolute, to the full
bo: Jì sǔt	<u> ဂွ</u> ဲဇီသုဋ္ဌိ	bu:a rì sǔt	bo: <u>r</u> ì sùt	virgin, pure, innocent
bo: la:n	ပ္ခံဇာက္က	bu:a ra:n	bo: rain	old, ancient, antiquated
la: ka:	නාඛ	ra: ka:	ra: k <sup>h</sup> a:	price, cost

Table 15: Examples of loan words

Note: The letter  $\circ$  is pronounced as the sound  $1/\infty$ .

## 3.5.5 Other difficulties

There are some words that Kammuang speakers will find difficult to write correctly because spoken Kammuang does not follow the way of written Lanna. Table 16 shows two examples of this problem.

Phonetic transcription of modern spoken Kammuang	The Lanna script	IPA transliteration of the Lanna script	Translation
kăm pi:	င်္ဂာဘီဇိ	kam p <sup>h</sup> i:r	scripture, textbook
k <sup>h</sup> ĩ: <u>t</u> âw	ဗို်စေ်၁	k <sup>h</sup> ĩ: <u>t<sup>h</sup></u> âw	ash

Table 16: Two words in which spoken Kammuang does not follow Lanna spelling

These two words cause problems for Kammuang speakers because when these words are written in the Lanna script, the first word uses the consonant  $\mathfrak{D}$ , pronounced  $p^h$ , so this word will be pronounced  $kam\ p^hi$ : 'scripture, textbook'. In contrast to the spoken form, Kammuang speakers pronounce this word  $k\check{a}m\ pi$ : When they are asked to write this word, they write it using the consonant  $\mathfrak{D}$  (w) (p) writing  $\mathfrak{D}$   $\mathfrak{D}$ 

The second word uses the consonant  $\mathfrak{S}(\mathfrak{n})$  ( $\mathfrak{t}^h$ ) and is pronounced  $/\mathfrak{t}^h$ / so this word is pronounced it  $k^h \tilde{\imath} \cdot t^h \hat{a} w$  'ash'. When Kammuang speakers say this word, they pronounce it  $k^h \tilde{\imath} \cdot t \hat{a} w$  so they would probably use the consonant  $\mathfrak{S}(\mathfrak{n})$  ( $\mathfrak{t}$ ) when they write this word, writing  $\mathfrak{S}(\mathfrak{S}) \times \mathfrak{t}^h \tilde{\imath} \cdot t \hat{a} w$  'ash' instead.

# 3.5.6 The changing pronunciation of the Lanna script and Kammuang

As with all languages, the pronunciation of the written and spoken forms changes over time. This is another problem that Kammuang speakers may have when they learn to write the Lanna script. These changes occur in only some words, and there are no readily apparent rules to explain the changes shown in the examples in Table 17.

The Lanna script pronunciation	Modern spoken Kammuang	English
căk	că?	used to express simple futurity in the manner of <i>shall</i> after the
		first person or will after the second or third person
cak kà? wât tì?	căk kà? p <sup>h</sup> ăt	an emperor
tá? le:	tă? le:	sea
bu:a lá? mu:an	bo: lí bu:n	complete, perfect, absolute, to the full
bu:a lì sŭt	bo: lí sǔt	virgin, pure, innocent
bu:a la:n	bo: la:n	old, ancient, antiquated
sà? mât t <sup>h</sup> à?	să: mâ:t	able, capable (of)
?on tà la:j	?an tà la:j	danger
?a: să? lă:j	?a: sǎj	to dwell, to inhabit, to live
?ŭt să: hă?	?ŭt sà:	to take the trouble to, to go out of one's way, to try
càm lə:n	căm lə:n	to prosper, to grow
kam haj	kăm haj	profit

Table 17: Pronunciation differences between some Lanna and Kammuang words

Some of the words are pronounced differently in terms of the tone. For example, the word observe to prosper, to grow is written as cam loss in the Lanna script, in

spoken Kammuang, however, this word is pronounced căm lə:n. Some words are

different in terms of a vowel. For example, the word  $\partial \mathcal{S}_{\infty}$  'Old, ancient, antiquated'

in the Lanna script is written *bu:a la:n*, but in modern spoken Kammuang it is pronounced *bo: la:n*.

While the examples above do not appear to be rule-based, there are some words that have a rule to explain the changes. The consonant /nw/ in the Lanna script is changed into /n/ in modern spoken Kammuang, as in Table 18. This change is explained by Smalley (1994: 76), as many such clusters are gradually disappearing and the speakers may fluctuate between pronunciations with and without /w/.

The Lanna script pronunciation	Modern spoken Kammuang	English
t <sup>h</sup> am <u>nw</u> a:j	t <sup>h</sup> am <u>n</u> a:j	to predict, to foretell
nwâ:p tô:t	nâ:p tô:t	to blame

Table 18: Rule bound consonant changes

#### 3.5.7 Conclusion

Despite Aj. Mongkhon's view that 'you must forget Central Thai before learning Lanna', the difficulties the Kammuang speaker faces in learning the Lanna script are not great. If a Kammuang speaker is literate in Standard Thai, they will find that the structure, word pattern, tone and parts of the orthography of the Lanna script are similar to Standard Thai. By contrast, those who have no knowledge of Kammuang or Standard Thai may have many difficulties in learning the Lanna script. Both Lanna and Standard Thai have their own spelling rules. Time needs to be spent in class on learning the Lanna rules and noticing exceptions to the rules. The challenge to Lanna learners who know Kammuang will be learning irregular forms and exceptions to the rules.