

# A PHONOLOGICAL STUDY OF AKHA IN PA-KHA-SUK-JAI VILLAGE, TAMBOL MAE-SA-LONG-NOK, KING AMPHUR MAE-FA-LUANG, CHIANG RAI PROVINCE

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การศึกษาระบบเสียงภาษาอาข่า ที่หมู่บ้านป่าคาสุขใจ ตำบลแม่

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#### บทคัดย่อ

วิทยานิพนธ์ฉบบันี้ เป็นการศึกษาระบบเสียงภาษาอาข่า ซึ่งจัดอยู่ในตระกูลภาษาทิเบต–พม่า สาขา โลโล พูด ที่หมู่บ้านป่าคาสุขใจ ตำบลแม่สะลองนอก กิ่งอำเภอแม่ฟ้าหลวง จังหวัดเชียงราย

เนื้อหาของวิทยานิพนธ์แบ่งออกเป็น 6 บท คือ บทที่ 1 บทนำ บทที่ 2 ทำนองเสียง บทที่ 3 คำและการเน้นเสียง บทที่ 4 พยางค์ บทที่ 5 หน่วยเสียง บทที่ 6 บทสรุปและข้อเสนอแนะ และ ภาคผนวก ได้เสนอ คำศัพท์พื้นฐานในภาษาอาข่า ที่พูดที่หมู่บ้านป่าคาสุขใจ จำนวน 1,650 คำ

จากการศึกษา พบว่า ระบบเสียงภาษาอาช่า ที่หมู่บ้านป่าคาสุขใจนี้ มีหน่วยเสียงพยัญชนะทั้งหมด 28 หน่วยเสียง หน่วยเสียงสระ 13 หน่วยเสียง และหน่วยเสียงวรรณยุกต์ 5 หน่วยเสียง ทำนองเสียงมี 2 ชนิด การเน้นเสียงมี 4 แบบ โครงสร้างพยางค์มี 1 ชนิด

ผลการศึกษาพบว่า ภาษาอาชาที่พูดที่หมู่บ้านป่าคาสุขใจนี้ มีความสัมพันธ์สอดคล้องกับลักษณะ โดยทั่วไปของภาษาในตระกูลทิเบต-พม่า กล่าวคือ เป็นภาษาที่ไม่มีเสียงพยัญชนะท้าย มีพยัญชนะ ควบกล้ำ I ตัว คือ ย / j / เป็นภาษาที่มีเสียงวรรณยุกต์เป็นลักษณะสำคัญ และเมื่อศึกษาเปรียบเทียบ กับระบบเสียงภาษาอาชา ที่ศึกษาโดย พอล ลูวิส ที่หมู่บ้านปูลี แล้ว พบว่า ภาษาอาชาทั้งสองถิ่นนี้ มีลักษณะที่ใกล้เคียงกัน หากแต่มีการวิเคราะห์ระบบเสียงแตกต่างกัน ดังแสดงไว้ในบทที่ 6

Thesis Title A Phonological Study of Akha in Pa-kha-suk-jai

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#### **ABSTRACT**

This thesis is an attempt to present a phonological analysis of Akha, a Tibeto-Burman language as spoken in Pa-kha-suk-jai village, Tambol Mae-Sa-Long-Nok, King Amphur Mae-Fa-Luang, Chiangiai Province.

The thesis is divided into 6 chapters. The first chapter is an introduction. The second chapter analyzes the intonation group. The third chapter analyzes the phonological word. The forth chapter analyzes syllable. The fifth chapter analyzes phonemes. And the sixth chapter is the conclusion and suggestions for further study. Moreover, there is one appendix that presents 1,646 word lists of Akha in Pa-kha-suk-jai village

From the study, there are 28 consonants, 13 vowels, 5 tones, 2 types of intonation, 4 types of word structure and 1 type of syllable structure.

In addition, this study shows that Akha language in Pa-kha-suk-jai village is similar to other languages of Tibeto-Burman as: there is no final consonant, / j / is a cluster consonant and tone is the significant characteristic of this language.

In comparison of two dialects, Pu-li and Pa-kha-suk-jai, shows that they are very similar as present in chapter 6.

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#### LIST OF ABBREVIATIONS AND SYMBOLS

B.C. Before Christ
B.E. Buddhist Era
C : Consonant
e.g. for example
et al. and others
etc. et cetera, and t

etc. et cetera. and the rest, and so on

f.p. : final particle

i.e. : that is

I.P.A. : The International Phonetic Alphabet

n. : noun No. : Number

n.p. : negative particle

p. : page

q.p. : question particle

T Tone
V Vowel
v. verb
vd. voiced
vl. voiceless
v.p. verb particle
vol. volume

#### **SYMBOLS**

colon
; semi-colon
[.....] phonetic brackets
/...../ pnonemic brackets
become

Figure 1: Akha House

Figure 2 : Pa-Kha-Suk-Jai village.

Figure 3: Main Informant.

Figure 4 : Main informant and his sister.



Figure 5: The villagers are building the new village gate.



Figure 6: Wooden figures placed by village gate.

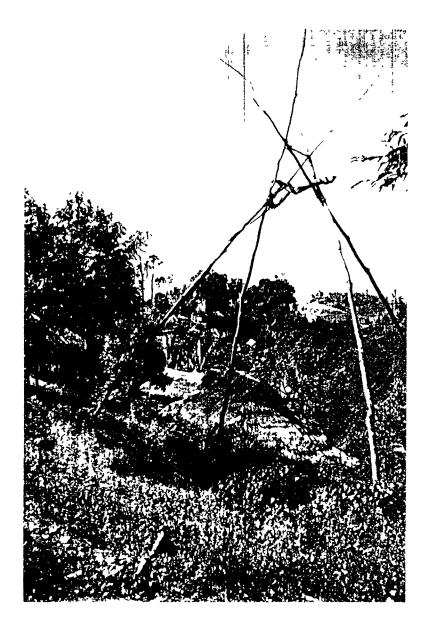


Figure 7 : A village swing.

Figure 8 : Akha family.



Figure 9 : An Akha man is pounding sticky rice.

Figure 10 : Akha women are dancing.





Figure 11 : Akha girl and the writer.

#### CHAPTER I

#### INTRODUCTION

#### 1.1 General Information about Akha

#### 1.1.1 Names of Group

The Akha, because they are a widespread group, are known by a variety of names in various locations. They call themselves "Akha", "Akho", or "Ako", a nomenclature apparently universal among members of the group throughout Southeast Asia. (Bernatzik 1966:12, Embree et al. 1950:69).

In Myanmar, where they are most numerous, the Akha are referred to by many different terms, several of which were undoubtedly introduced by the British during their administration of Myanmar. "Kaw", "Hka-kaw", "Ikaw", "Kao", "Ko", and "Khan Kaw" are names used by the Burmese and British. Kaw and Ko are also often used by the French, Chinese, and Thai. (Embree et al. 1950: 12,69). Other names applied to the Akha in Myanmar are Kao (another spelling of Kaw), Ekaw, I-Kaw, Angka, Kha-kaw and Tanae. Tai Loi is a Shan name for the Akha that is used only occasionally in Shan area. (Grierson 1927:427,456,463).

The Akha of China are also known by a variety of names, The terms most frequently used are Aka, Akha-jen, Akha, Akho, and Kaw Ko. The term "Ako" is used by the Chinese to refer to those individuals of mixed Akha and Chinese ancestry. Another term, "Wo-ni", which is sometimes applied to the Akha in China, actually refers to the various Lolo (Tibeto-Burman) speaking groups of southern Yunnan. (Geldern 1967:736, Embree et al. 1950:12-13, 69, Lebar 1964:34). The Akha of Laos and the few in North Vietnam are known by only two names: "Kaw" and "Kha Ko". (Embree et al. 1950:99). In China and Vietnam they are included in the group referred to as 'Hani' (a name which may derive from the term 'Za Nyi' which they call themselves in their poetic and ceremonial language)although this designation may include other Yi (Lolo) groups. (Lewis 1985: 204).

It has been suggested that the Akha are found in three separate and distinct tribes in the areas of Thailand, Myanmar, Laos, Vietnam, and possibly southern Yunnan. Apparently the tribes, the Akha Tyitso, Akha Puli and Akha Akho (known as Tao Sa Mi, Pu-Li and Na-Li in Myanmar) differ mainly in dress. (Bernatzik vol. II 1966: 456-572).

Reliable sources have also suggested that the Akha have seven, possibly nine subgroups. One source enumerates nine such groups (Lehleubo, Jeu Gwe, Jaujaw, Jo Byawn, Leh Nyi, Che Mui, Apyo Hos, Zeu Zi, and Hteu La), while two other sources list only seven. In Laos the seven are given as the Nu-quay, O-Pa or Chop Pra, O-ma, Mue Chi, Pu-sang, Pu-Li, and La-Ma, (Embree et al. 1950:99) and in the Upper Myanmar region the Suli, Chi-cho, Sat-do, Chi-ma, Mota, Luwei and Puchel. (Bernatzik vol.II 1966:457).

#### 1.1.2 Language

The Language of the Akha belongs to the Tibeto-Burman branch of the Sino-Tibetan language family. Their linguistic tradition, like their cultural patterns, shows a stronger Burmese influence than a Chinese one. Within the Tibeto-Burman linguistic group, the language of the Akha has been classified in the Lisu subgroup, (Bernatzik vol.II 1966:447, Embree et al. 1950:12, 68, 99). This subgroup is identical to the Lolo group of languages.

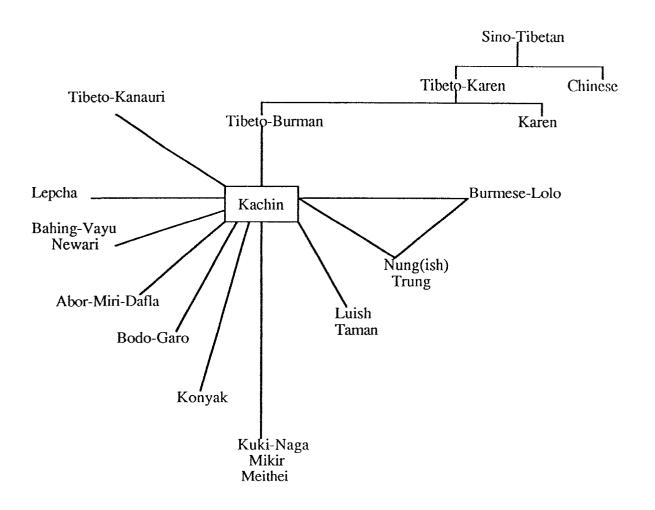


Figure 12: Schematic Chart of Sino-Tibetan Groups

Source: Benedict, Paul K., Sino-Tibetan a Conspectus, 1972:6

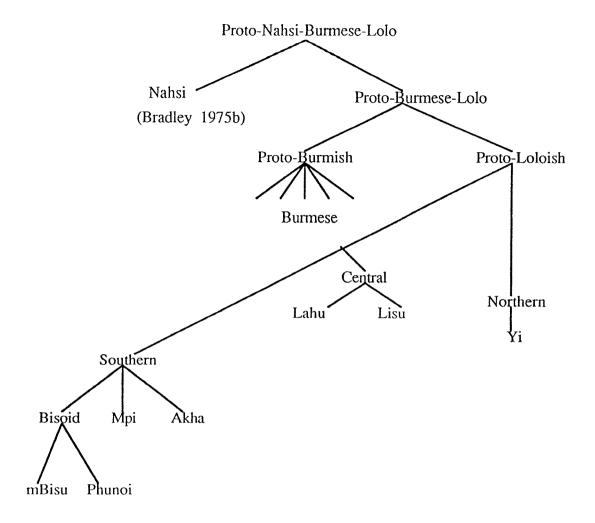


Figure 13: Schematic Chart of Burmese-Lolo
Source: Bradley, David., "Proto-Loloish"
(Oriental Monograph series No.23),

Australian National University, Canberra, 1979: 285

There are a number of dialects within the Akha language, the development of which have been attributed by some to the wide dispersion of the Akha tribes. The main Akha dialect, spoken by the Akha in parts of Kengtung, southern Yunnan and the northwestern section of Laos, has remained remarkably free of outside influences. (Bernatzik vol. II 1966:448).

The Akha have no script of their own, although in Myanmar there are missionary derived scripts. The Akha are considered to be excellent linguists; those living in Thailand are often fluent in Yunnanese, Lahu, Shan, and a

modified Thai dialect. This adaptability is evident in the Akha peoples' successful adoption of final consonants in spoken Shan language, which do not appear in their own language. (Young 1962:1,2).

#### 1.1.3 History

#### 1.1.3.1 Legendary History

The Akha are not rich in tribal folklore. There is little or no indication of a creation story in their legendary history. One myth that may be indirectly tied to various creation stories is their moon myth. This story relays the terror caused among the Akha people during an eclipse of the moon, because it is believed that such a phenomenon is an indication that the moon is about to be consumed by a dog. To ward off this tragedy, the tribesmen fire guns and crossbows into the sky. (Bernatzik vol.I 1966:196).

One Akha myth refers to a former home as the region between the Shan states in Myanmar and the Ho country (extreme north of Laos). According to this legend, about 700 years ago, the Akha, armed only with crossbows, fought the Ho and victoriously secured their homes. In contrast though another legend relates how the Akha, immediately after destroying giant wasps that were about to exterminate the tribe, escaped slavery under the Ho by migrating to their present habitat. (Seidenfaden 1956: 145).

The Akha, like the Karen, have a legend about a lost book, which is often compared to the Bible. (Marshall 1922:10). It is said that the Akha originally had books which were given to them by a creator-god, but the books were eaten because they were too heavy to carry around; some of the Akha say the books were eaten by their dogs. Another version of the tale relates that the Akha at one time possessed an alphabet written on buffalo hide, but because the hide was considered a delicacy, the Akha ate it and thus lost forever their knowledge of writing. They were, however, endowed with a highly developed appreciation for good food, according to the legend. (Seidenfaden 1956: 146-147).

Although the Akha have no written history, a rich heritage of legends, proverbs, and rituals gives them a sense of who they are and what being an Akha means. Like some other Tibeto-Burman groups, the Akha are able to recite the names of all their ancestors in the male line back to the 'beginning'. They feel these ancestors are their source of life and have provided them with the knowledge to cope with the daily situations. Seeing themselves as a link in this claim of life, the Akha are sustained in their hour of need, and challenged to play their role in ancestor worship now, so that later, others with take care of them as an ancestor as they have cared for those that came before them. (Lewis 1985:204).

#### 1.1.3.2 Factual History

It is believed by some that the Akha are descendants of the ancient Lolo (or No-su) people who entered Kweichow and Yunnan Provinces in southwest China from Tibet around the second and first millennia B.C. (Young 1962:1). The Akha, along with the Meo, Yao and Khmer, followed a north-south migration path from the Tibetan-Chinese border, usually traveling along the mountain ranges into the Southeast Asian peninsula. The Akha and the other Tibeto-Burman tribal groups moved southward very slowly, and their migration was in most cases caused by political or military unrest in their former homelands.

#### 1.2 Akha in Thailand

According to written sources, the first Akha village in Thailand was probably established in 1903 in the Phayaphai region of Hin-Taek, near the Myanmar border. Other villages followed, but according to the source there were probably not more than 2,500 Akha living in Thailand by the end of World War II. In 1964 there were approximately 7,000 and mid-1983 they numbered 24,000, which means their population has mare than doubled three times in 38 years. Some of this is from in migration, but approximately 3% a year is from births in the Akha community.

At first, the Akha in Thailand only lived north of the Mae Kok river in Chiangrai province. By mid-1983 about 7% of them lived in three other

provinces; and of the 93% were still living in Chiangrai province. At this time only 15% were located south of the Mae Kok river. (Lewis 1985:204)

Bernatzik comments on the relatively large size of Akha villages in northern Thailand and say that villages may contain up to 200 houses, with an average of 10 to 20 persons per house. (Lebar et al. 1964:35).

In Thailand there are three major styles of dress for the Akha:

- 1.[ ใน 21 lo 55] This group, which literally means 'pointed headdress' [ ใน 21 ] is from [ใน 21 du 21] which means 'head' and [ lo 55] means 'pointed'. Therefore, this group is called by the word [ ใน 21 lo 55]. The two villages of this group which firstly immigrated to Thailand were Ban-Saen-Jai (บ้านเสนใจ), Tambol Mae-Sa-Long-Nai, King Amphur Mae-Fa-Luang, and Ban Doi-Sa-Ngo (บ้านดอยสะโร้), Tambol Tri-Don-Mul, Amphur Chiangsaen, Chiangrai province. This group of Akha people immigrated to Thailand more than 77 years ago. There was approximate population of this group not less than 15,000 in Thailand.
- 2. [ lɔ <sup>33</sup> mi <sup>'33</sup> ] This group is named after a large mountain in Keng Tung state, Myanmar. From which many of these people come, called [ lɔ<sup>33</sup> mi<sup>'33</sup> ] mountain ( Doi-Mi (ดอยหมี) or the bear area). This group is sometimes called [ ʔu<sup>21</sup> bja<sup>21</sup> ] "flat headdress Akha" by other groups of Akha people who lives in Thailand. The village which firstly immigrated to Thailand was Ban-Phaya-Phrai (บ้านพญาไพร), Tambol Therd-Thai, King Amphur Mae-Fa-Luang, Chiangrai province. There was approximate population of this group about 10,000 in Thailand.
- 3. [pha 21 mi 21] This group is named after one village in Thailand, although it is not limited to that village. This style is worn primarily by women of the [mo 21 po 33] clan, whether in China, Myanmar or Thailand, and is the one dress style which tends to be used by a single clan or two. The dialect spoken by these Akha is virtually the same as what the Chinese call 'Aini Akha'.

The village which firstly immigrated to Thailand was Ban Pha-Mi (บ้านผา หมี), Tambol Wiang-Phang-Kham, Amphur Mae-Sai, Chiangrai province. There is approximately 10,000 peoples in Chiangrai as in follows:

- Ban Pha-Mi, Tambol Wiang-Phang-Kham, Amphur Mae-Sai, Chiangrai. (บ้านภาทมี พ.เวียงพางคำ อ.แม่ชาย จ.เชียงราย)
- Ban Pha-Hi, Tambol Pong-Ngam, Amphur Mae-Sai, Chiangrai. (บ้านผาชี้ ต.โป่งงาม จ.แม่ธาย จ.เชียงราย)
- Ban Keuw-Sa-Tai, Tambol Pa-Tung, Amphur Mae-Chan, Chiangrai. (บ้านทั่วระไต ต.ป่าตึง อ.แม่จัน จ.เชียงราย)
- Ban Mae-Chan-Tai, Tambol Tha-kaw, Amphur Mae-Sruay, Chiangrai. (บ้านแม่จันใต้ ต.ท่าก๊อ อ.แม่ธรวย จ.เชียงราย)

Mr. Athu Bawchae (นายอาที่ บอนที่), An officer of Akha Association For Education and Culture told me that there are some groups of Akha who have recently migrated from Myanmar to Chiangrai province. He observed that these Akha immigrants have different dress styles from three main groups in Thailand, but this is still informal information. However, he classified the new immigrants into four main groups resulting from his survey:

これないないないないないというないというないないないないないということにない

- 1. [ 2a <sup>33</sup> khə <sup>55</sup>] This group originated in southeast of China close to Myanmar border. They immigrated to Myanmar for 15 years ago, then immigrated to Thailand around 1978, and established their village at Doi-tung area in Chiangrai province. They called themselves [ kɔ <sup>33</sup> khw <sup>55</sup>] or [ 2ɔ <sup>21</sup> ne<sup>33</sup> jɔ <sup>33</sup>]. After they immigrated to Thailand, they were called [2a <sup>33</sup> khə <sup>55</sup>] by other groups, there are approximate population about 20 households, 107 persons in 1 village at Ban Mae-Nam-Khun (munimu), Tambol Tha-Kaw, Amphur Mae-Sruay, Chiangrai.
- 2. [ na <sup>21</sup> kha <sup>55</sup>] This group originated in China, then immigrated to Myanmar before immigrating to Thailand. They call themselves as [ na <sup>21</sup> kha <sup>55</sup>]. It was the name of their village when they lived in China. The dressing style of this group is very similar to [ pha <sup>21</sup> mi <sup>21</sup> ] Akha. There are approximately 70 persons, 12 households in one village at Ban Pha-Na-Se-Ri (thuwungs) Moo 4, Tambol Tha-Kaw, Amphur Mae-Sruay, Chiangrai.

3. [pja '33] This group originated in myanmar, and then immigrated to Thailand in the region of Amphur Mae-Chan, Chiangrai. [pja '33] means "leaders". Since this group are governed by [pja '33], so other groups of Akha called them as [pja '33] Akha also. The dressing style of this group is very similar to [?u 21 lo 55] Akha. Most distribution of this group is in Amphur Mae-Chan and King Amphur Mae-Fa-Luang as the following villages:

Ban Pha-Ya-Phrai-Lee-Thu (บ้านพญาไพรลีถู่), Ban Pong-Hai (บ้านโป่งไฮ) and Ban Huay-Yuak (บ้านหัวยหยวก), King Amphur Mae-Fa-Luang, Chiangrai province. There are approximately 300 persons, 55 households at Ban-Huay-Yuak and approximately 6,000 persons in Chiangrai.

4. [ วัน <sup>21</sup> phi <sup>33</sup> ] This group originated in Keng-Tung state in Myanmar, then immigrated to Thailand at the area of Ban Pa-Sang-Sung (บ้านป่า ซางสูง), Tambol Therd-Thai, King Amphur Mae-Fa-Luang, Chiangrai. At first, there were population about 300 persons, 75 households but most of them moved back to Myanmar. Therefore, there are only 30-50 persons who still live in Thailand at Ban Therd-Thai (บ้านเทอดไทย) Moo 4, Tambol Therd-Thai, King Amphur Mae-Fa-Luang, Chiangrai province. At present, they don't wear their traditional dressing because they assimilate themselves to Thai culture.

#### 1.2.1 Houses

Traditional Akha houses are made with wooden house posts, and thatched roofs. Almost everything else is constructed from bamboo. Akha houses have no windows, and the roof is constructed in such a way that the eaves come down very low on both sides and the ends. This construction results in a dark interior, but keeps out the wind and rain, and provides a small covered work space outside under the eaves.

There are two main sections in the house, one for the men the another for the women, with a shoulder-high partition between the sections extending as far as the central house beam. One area is for sleeping, the other for work and various activities. The ancestral altar is hung on the women's side of the partition.

Each house has two open fireplaces for cooking. The one on the men's side is used primarily for cooking meat and brewing tea, while ric and vegetables are cooked on the women's hearth. Usually there is a third fireplace on the women's side where pig's food is cooked. (Lewi 1985: 220)

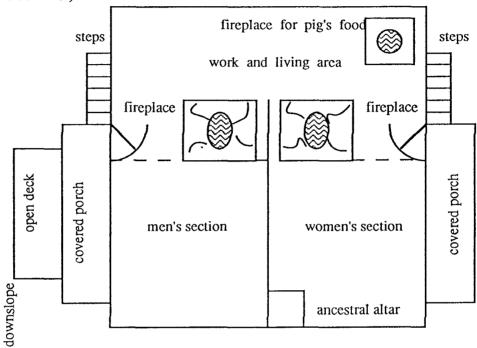


Figure 14: Akha house plan

Source: Lewis, Paul., <u>Six Tribes of Tribal People</u>, Chiangmai, 1985,p. 220.

During this study, I observed that some Akha families in Pa-kha suk-jai village adapted their houses from the traditional style to a mor modern style which has two sets of stairs, a separate bedroom, and doe not include a fireplace in the men's side or the women's side. However the ancestral altar is still located on the women's place.

#### 1.2.2 Village gate

Although formal aspects of Akha customs are based primaril on the Akha's relationship with their ancestors, in everyday life they ar also continually concerned with unseen spirit forces. According to Akh myth, human beings and these 'spirits' originally lived together in an idylli relationship. All animals, wild and domesticated, also lived together in perfec

harmony. Human beings tilled their fields in the daytime, and spirits tilled their field at night. Trouble broke out, however, when spirits began to steal chicken eggs from people, and people began stealing cucumbers from spirits. As the conflict grew it was finally decided they should separate - people living in villages and spirits in the jungle. In order to provide a clear demarcation between the human and spirits realms, it was decided that 'village gates' should be erected at the upper and lower ends of an Akha village.

The main gate is usually located on the path at the upper part of the village. The primarily function of the gate and the wooden figures associated with it is to 'protect the village from hawks and wildcats, leopards, and tigers, illness and plague, leprosy and epileps, vampires and weretigers, and all other bad and wicked things'.

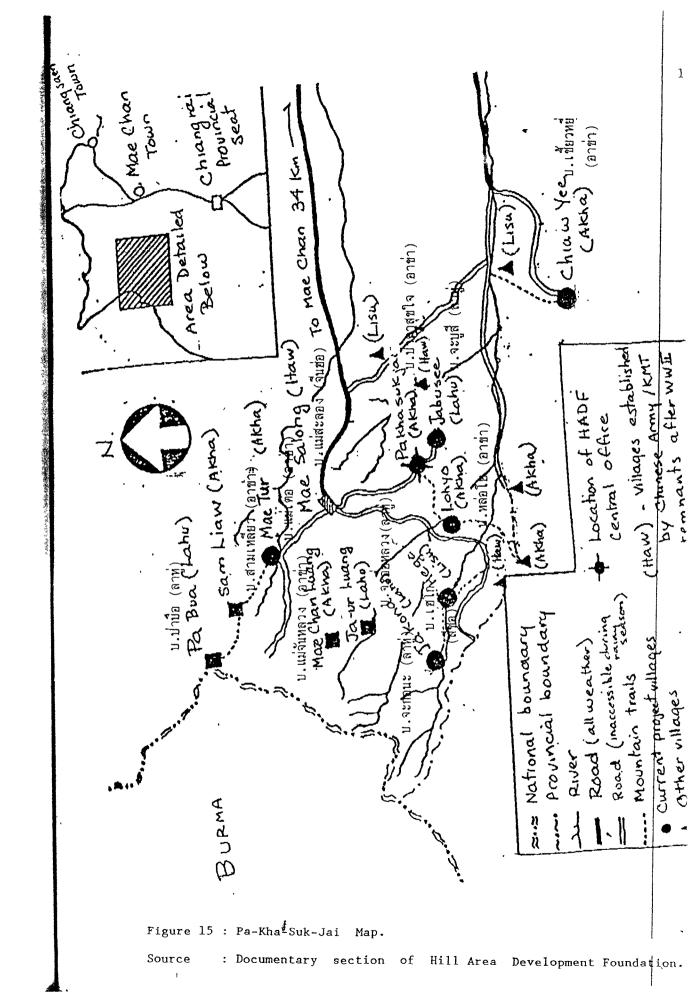
The village gates are renewed each year under the direction of the village priest. (Lewis 1985:224)

#### 1.3 Akha in Pa-kha-suk-jai village

#### 1.3.1 History

Pa-kha-suk-jai village (บ้านป่าคาสุขใจ) was founded about 16 years ago (in 1977). The Akha people of this village are "lɔ³³ mi³³³" Akha. They migrated from Myanmar, due to increasing military unrest in the border area. Pa-kha-suk-jai village was in the area of Phayaphrai (พญาไพร), Hua-Mae-Kham (หัวแม่คำ), Doi -tung (ดอยตุง), Mae-Maw (แม่เมาะ) and Mae-Sa-Long (แม่สะลอง). At first there were only 18 households, but today there are 70 households.

The old name of Pa-kha-suk-jai village was the Chinese name, "Mao-chao-ling" (เหม่าน่าหลิง) which means "cogon grass". The elders said that at first the land of this village was very dry and there was only cogon grass. They had to walk two hours to find the bamboo tree for building. But now the villagers of Pa-kha-suk-jai in cooperation with the Hill Area Development Foundation campaign are working to recover this degraded area of forest around the village. They are working on approximately 1,000 rai of land using



sustainable agriculture techniques to grow trees and decrease slash and burn agricultural methods.

The size of the Pa-kha-suk-jai village itself is about 10 rai. It is located 1,120 metres above sea level at point NC. 667260. (Report of Hill Area Development Foundation: 5).

#### 1.3.2 Population

At the time of the study there were 373 inhabitants of the village, 200 males, 173 females.

Pa-kha-suk-jai village is composed of both nuclear families and extended families. Nuclear families are about 70.59% of the population and extended family comprise the remaining 29.41%. (Report of Hill Area Development Foundation: 11)

#### 1.3.3 Education

Since 1986, one of non-governmental organizations, the "Hill Area Development Foundation" was allowed by Hill Tribe Peoples' Committee of Chiangrai province to work in Pa-kha-suk-jai village to teach Thai language and other subjects, likely reforestration. This was accomplished by co-ordinating with the non-formal education department and using the Education Center For Communities in Mountain Area's specially developed curriculum.

75.14% of the Akha people in this village can not speak Thai. And only about 24.86% of the people can speak, read and write Thai.

Thai language ability	Male	Female	Total
can speak,read and write	22.06	5.17	14.28
only speaking	13.24	7.47	10.58
can not speak,read	64.71	87.36	75.14
or write			

Table 1: Thai language ability

Source: Report "General information of Pa-kha-suk-jai village,

Hill Area Development Foundation, 1989:16

#### 1.4 Background Study

During 1986-1988, I had an opportunity to work in a small development project with the Akha people in Pa-kha-suk-jai village. During that time, I became more interested in groups of minority people in Thailand. I wanted to study more about their way of life, language and culture. So, I decided to go back to Pa-kha-suk-jai village to visit some people whom I had taught Thai language and conduct this study with them.

#### 1.5 Details about the informants

All of Akha language data in this study are elicited from 2 Akha informants. Both of them moved from Myanmar to Thailand about 15 years ago. My main informant was my student when I worked there. His Thai language ability is fairy good. And, of course, he also speaks Akha everyday in the village. Another informant is a student of Chiangrai agricultural college who grew up in Pa-kha-suk-jai village.

1. Name : Mr. Lee-hu Wui-yue-ku (main informant)

Age : 26

Education : Prathom 6

2. Name : Mr. A-do Ye-biang-ku

Age : 24

Education : Third year of Chiangrai agricultural college.

#### 1.6 Criteria for choosing informants

In this village, the people who can understand Thai are mostly the young people that are used to study and some children who are studying Thai now. This group is comprised mostly of males, because Akha customs insure that women are very busy work in the house and field. But only a few of young people know Thai well enough to be an informant. So, I used the following criteria for choosing informants.

First, they must be able to understand Thai very well. And, if they do not understand the meaning of some words, they will ask to check for correctness.

Second, the informant must have perfect articulation so that the language they produce will be reliable.

Third, they must have enough free time and are willing to give the language data to me.

Fourth, the informant must be Akha and must have lived in Pa-kha-sukjai village not less than 5 years.

Fifth, the informant must be more than 15 years of age.

#### 1.7 Objective of the study

The objective of this study is analyse the phonological system of Akha language in Pa-kha-suk-jai village.

#### 1.8 Scope of the study

The study deals with the phonological system of Akha language in Pakha-suk-jai village, Tambol Mae-Sa-Long-Nok, King Amphur Mae-Fa-Luang, Chiangrai province.

#### 1.9 Methodology

- 1.9.1 First a literature survey was undertaken, of both published and unpublished documents about the Akha language, to further develop on understanding of the language and the research which has already been done.
- 1.9.2 Gathering of data: The data on which this study is based consists of 1,650 vocabulary items, most of which were transcribed from the type-recorded vocabulary collected during discussions with the informants. This vocabulary was transcribed according to the International Phonetic Alphabet.

In my field work, the following documents have been adopted for collecting data:

- 1.9.2.1 The prepared word list by Morris Swadesh, The Swadesh South East Asian word list (revised), Mahidol University, 1982.
- 1.9.2.2 The International Phonetic Alphabet (I.P.A.) by the International Phonetic Alphabet Association (Revised to 1979).
  - 1.9.2.3 List of Akha verbs, by Inga Lill Hansson.
- 1.9.2.4 Categories outlining the methods of word collecting in the appendix of Field Method of Linguistics, by Sujaritlak Deephadung, 1990.

# CHAPTER II

## THE INTONATION GROUP

#### 2.1 Definition

The intonation group is the highest rank in the hierarchy and has no statable function. Its structure is stated in terms of the stress group.

# 2.2 Types of Intonation

Intonation of Akha language is <u>non-phonemic</u> since it is predictable. The pitch movement is determined by the tone inherent in each word constituting the sentence. However, two types of intonation occur at the end of utterance. They are;

Falling contour
Rising-falling contour

#### 2.2.1 Falling contour

The pitch of falling contour may be phonetically characterized by a falling pitch occurring at the end of the utterance. It is used in affirmative, imperative, negative imperative and interrogative sentences. It is marked by the straight line with falling curve at the end.

(----).

### 2,2.1.1 Affirmative Sentence

The pitch of an affirmative sentence may be phonetically characterized by the pitch falling down slightly at the end of the utterance.

For example:

1)	na 5	ja 5 ye 2	jo 1 nã 2 nã 2	7i 5 ma 2
	I	the field	everyday	to go
	"I go	to the field	everyday."	

- 2) za 3 2a 1 bo 5 jo 1 mja 3 mja 3 k<sup>h</sup>a 1 mo 3 the children tree many to grow to want "The children want to grow a lot of trees."
- 3) ja 5 sa 3 2a 1 dzi 5 jo 1 mja 3 dzo 5 2a 1 the forest the bird many to have v.p. "There are a lot of birds in the forest."

# 2.2.1.2 Negative Sentence

- 1)  $7a 3 tc^h 2 3$  ja  $1 p^h 1 5$  ma 3 do 5 mo 3He opium not to smoke to want "He doesn't want to smoke opium."
- 2) na 5 ma3 dz 5 mo 3 na 2

  I not to do to want n.p.

  "I don't want to do."
- 3) na 5 ma 3 ni 5 mo 3 na 2 I not to go to want n.p.
  "I don't want to go."
- 4) na 5 ma 3 dz 5 na 2 na 2 I not to do can n.p.
  "I can not do."

# 2.2.1.3 Negative Imperative Sentence

There is a word / tha3 / "do not" which functions as pre-verb of the negative imperative marker. It occurs before the word which was negated.

For example:

1) ja 3 phi 5 tha 3 do 5
opium don't to smoke
"Don't smoke opium!"

- 2) 7a 3 bu 5 75 5 tha 3 ya 2 woman to have don't to visit "Don't go to visit the prostitute!"
- 3) 7a 1 bo 5 tha 3 thu 5 tree don't to chop "Don't chop the tree!"
- 4) 7a 1 dʒi 5 t<sup>h</sup>a 3 bə 2 bird don't to shoot "Don't shoot the birds!"

# 2.2.1.4 Interrogative Sentence

The content question particle / le1 / is placed at the end of a sentence.

For example:

- 1) no 5 tsho 1 mjā 5 ?a 3 dʒɛ 3 lɛ 5 khu 5 le 1 you name what -\* to call q.p. "What is your name?"
- 2) no 5 ?a 5 mjã 1 xo 4 kho 1 la 5 le 1 you How much year -\* q.p. "How old are you?"
- 3)  $2a + 1 \sin 5 = ga = 3$  bu  $1 \sec 5$  ga = 4 le 1 who headman to get q.p. "Who is the headman?"
- 4) no 5 ?a 3 ga 5 ?i 5 le 1

  you where to go q p.

  "Where do you go?"

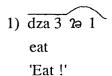
<sup>\*</sup> le 5 is an elaborative particle whose meaning cannot be determined.

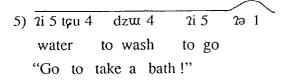
<sup>\*</sup> kh<sub>0</sub> 1 la 5 is also an elaborative particle whose meaning cannot be determined.

# 2.2.2 Rising falling contour

The pitch of rising-falling contour is phonetically characterized by the rising-falling pitch which occurs at the end of the utterance. Risingfalling contour only occurs on the imperative sentence.

For example:





The intonation group patterns are predictable from the sentence structure, especially from the final particles.

## CHAPTER III

#### THE PHONOLOGICAL WORD

## 3.1 General Definition

The phonological word is defined as the rank which function as the unit of the intonation group and whose structure is stated in terms of syllable.

## 3.2 Structure

In term of stress, the stress group in this language can be divided into 4 types:

# 3.2.1 Type 1 Monosyllabic word

A monosyllabic word is a word with only one syllable. The strong stress usually occurs on that syllable. Its structure is ['s]

Examples:

['d3ố <sup>55</sup> ]	'to do'
[ˈjɛ² <sup>21</sup> ]	'eight'
['lɔ 21]	'boat'
['ŋa <sup>55</sup> ]	Ί'
['tho 21]	'friend'

# 3.2.2 Type 2 Disyllabic word

A disyllabic word is a word with two syllables. The weak stress falls on the first syllable and the strong stress is on the last syllable. Its structure is [w's].

For example:

[,d3i.<sup>55</sup>'ba<sup>2</sup> 21] 'Iiquor' [,ba <sup>21</sup>'p<sup>h</sup>u'<sup>33</sup>] 'shoulder'

```
[, di <sup>21</sup> 'p<sup>h</sup>u <sup>21</sup>] 'hammer'
[,sa <sup>21</sup> 'də<sup>2</sup> <sup>21</sup>] 'salt'
[,sa <sup>21</sup> 'p<sup>h</sup>i <sup>55</sup>] 'chilli'
```

It should be noted that a large number of disyllabic words found in the data have  $[2a^{21}]$  or  $[2a^{55}]$  or  $[jo^{33}]$  as the first syllable as shown in following examples:

```
[.?a 21 'da'33]
                                          'father'
[.?a 21 'ma'33]
                                          'mother'
[ 3a 21 'li'33]
                                          'son'
[ .2a 21 'la2 21 ]
                                          'hand'
[.7a 21 tcho 21]
                                          'singular first person'
[.7a 55'mjo<sup>2 21</sup>]
                                          'monkey'
[.2a 55 'do'33]
                                          'older brother'
[.2a 55'xo<sup>2 21</sup>]
                                          'year'
[.7a 55'nw'33]
                                          'seed'
[.2a 55'phø 21]
                                           'price'
```

Most of animal names have [2a 21] as the first syllable as follows:

```
[, 2a 21 'd3i 55] 'bird'
[, 2a 21 '2i 21] 'termite'
[, 2a 21 'go', 33] 'bedbug'
[, 2a 21 'no 21] 'buffalo'
[, 2a 21 'd3e 21] 'cicada'
[, 2a 21 'no , 33] 'periwinkle, shell'
[, 2a 21 'khu 21] 'dog'
```

[jo 33] always occur on the first syllble of adjective as follows:

[ ,jo 33 'go 55]	'tall'
[,jɔ <sup>33</sup> 'ku' <sup>33</sup> ]	'to be wrinked'
[ ,jɔ <sup>33</sup> 'pʰə <sup>21</sup> ]	'to be rotten'
[ .jɔ <sup>33</sup> 'p <sup>h</sup> w <sup>55</sup> ]	'blue'
[,jɔ <sup>33</sup> 'ʔa <sup>21</sup> ]	'wet'

# 3.2.3 Type 3 Trisyllabic word

A trisyllabic word is a word with three syllables. There is one pattern in trisyllabic words.

3.2.3.1 The weak stress falls on the first and the second syllables and the strong stress falls on the last syllable. Its structure is [, $\mathbf{w}$ , $\mathbf{w}$ 's]

For example: [ .na  $^{33}$  ,me  $^{55}$  'b $^{5}$   $^{21}$ ] 'nose' [ za 21 ,mi 21 za 21 ] 'wife' [  $sa^{21}$  ,  $la^{33}$  ' $p^{h}a^{21}$  ] 'resthouse' [ se 21 le 33 'pho 21] 'big bowl' [ ,7a 55 ,be'33 'tche 55] 'tamarind' [ is 33 dzu 21 dzu 21 ] 'to shake" [ 88 wsb' 88 wsb, 88 ci, ] 'itchy' [  $nw^{33}$   $n\sigma^{21}$   $n\sigma^{21}$ ] 'to think' [.mia 33 te 33 te 33] 'to wink' [ t[ha 21 do 55 do 55] 'to be shy'

## 3.2.4 Type 4 Tetrasyllabic word

A tetrasyllabic word is a word with four syllables. The weak stress fall on the first, the second and the third syllable. The strong stress is on the last syllable. Its structure is [,w,w,w's].

For example:

[ 'si 21 'kho 33 'lo 55 'kha 21 ] 'bitter gourd'

[ 'sɔ 21 'bo 33 'da 33 'du 55 ] 'pencil'

[ '2a 33 'dʒi 55 'pa² 21 'dɔ '33 ] 'mint'

[ '2a 21 'lo 21 'lo 55 'ma '33 ] 'spider'

[ 'dɔ 55 'ta 33 'la 55 'kha '33 ] 'scorpion'

[ 'nɛ 33 'dzɔ 55 'na 33 'bɛ '33 ] 'papaya'

# 3.3 Compound word.

Compound is a term used widely in descriptive linguistic studies to refer to a linguistic unit which is composed of two distinct elements, that function independently in other circumstances of particular currency are the notions of compounding found in 'compound words' (consisting of two or more free morpheme). (Crystal 1991:70)

There are 3 patterns in compound word according to its stress pattern.

3.3.1 Compound word which is comprised of disyllabic word and monosyllabic word. Its pattern is ,w ,w 's.

For example:

3.3.2 Compound word which is comprised of disyllabic word and disyllabic word. Its pattern is ,w ,w ,w 's.

For example:

3.3.3 Compound word which is comprised of two disyllabic words. The last disyllabic word has its first syllable reduplicating the first or the second syllable of the first disyllabic word. Its pattern is 'w 'w 'w 's.

For example:

[,mja 
$$^{33}$$
 'nw  $^{33}$ ] + [, jo  $^{33}$ 't/h $^{\epsilon}$ '33] - [, mia  $^{33}$ ,mw  $^{33}$ ,mia  $^{33}$ 't/h $^{\epsilon}$ '33] 'eye' 'to have a pointed of edge' 'eyebrows'

#### CHAPTER IV

#### **SYLLABLE**

#### 4.1 General Definition

The syllable is defined as the rank whose unit functions in the stress group (phonological word) and whose structure is stated in terms of phonemes.

#### 4.2 Structure

In this language, due to the non-occurrence of the final consonants, the types of the syllables presented in this study are stated only in terms of open syllables which are segments consisting of a vowel and usually a toneme and one or two consonants as peripherals.

# 4.2.1 Types of syllables

There are two types of syllables in Akha language: the major syllable and the minor syllable.

## 4.2.1.1 Major syllable

A major syllable consists of a single consonant or a consonant cluster, a vowel (either oral or nasal) and a tone. It always takes a strong stress. The structure of the major syllable in Akha is C(C)VT.

/ miə 4 % 1 / ['miə 
$$^{2}$$
 21 %  $^{33}$ ] 'to lick'

/ nũ 5 / ['nũ  $^{55}$ ] 'now,house'

/ lã 3 / ['lã  $^{21}$ ] 'rabbit'

/ dʒɔ̃ 5 % 1 / ['dʒɔ̃  $^{55}$  %  $^{33}$ ] 'to do'

/  $^{18}$   $^{5}$   $^{5}$   $^{1}$   $^{1}$  [' $^{18}$   $^{55}$   $^{55}$   $^{18}$   $^{33}$ ] 'to hug''

/  $^{18}$   $^{5}$   $^{5}$   $^{1}$  | [' $^{18}$   $^{55}$   $^{18}$   $^{33}$ ] 'three'

/  $^{18}$   $^{55}$   $^{18}$   $^{18}$  | [' $^{18}$   $^{55}$   $^{18}$   $^{33}$ ] 'to pile up'

/  $^{18}$   $^{53}$   $^{18}$  | [' $^{18}$   $^{55}$   $^{18}$   $^{33}$ ] 'chest'

# 4.2.1.2 Minor syllable

A minor syllable consists of a single consonant or a consonant cluster, a vowel (either oral or nasal) and a tone. It takes weak stress. The structure of the minor syllable in Akha is C(C)VT.

For examples:	
/ <u>la 3</u> be 3/	'ring'
/ <u>lữ 3</u> bjữ 5 /	'cemetry'
/ <u>nel</u> b5 5 /	'grasshopper'
/ na 3 bo 3 /	'deaf person'
/ <u>mja 1</u> nw 2 /	'eye'
1 2a 3 yo 41	'needle'

It should be noted that the pronunciation of verb particle [  $29^{33}$  ] will be continual sound or moderately tight sound depends on the front syllable.

vowel	i	e	ε	a	Э	ш	u	э	0	ø	ã	5	ũ
consonant													
2	х	0	0	х	o	х	х	х	х	х	0	х	х
b	х	0	х	х	х	х	х	х	х	х	0	х	0
d	х	х	х	х	х	х	х	х	х	х	0	х	х
g	0	0	х	х	х	х	х	х	x	0	0	х	х
h	0	0	х	х	0	х	0	х	х	0	х	0	х
j	0	0	х	х	0	0	0	х	х	х	0	0	0
k	0	0	0	х	х	0	х	х	х	0	0	o	0
k <sup>h</sup>	0	0	0	х	х	х	х	х	х	х	0	X	Х
1	х	х	х	х	х	0	х	х	х	х	o	х	х
m	х	0	х	х	х	х	х	х	х	o	х	х	0
n	х	х	х	х	O	х	х	х	х	х	х	х	х
ņ	х	0	х	х	0	0	0	х	х	х	0	0	х
ŋ	0	0	х	х	0	O	o	0	o	0	o	0	0
P	х	0	х	х	0	0	х	х	0	х	0	0	0
p <sup>h</sup>	х	0	х	х	х	х	х	0	0	х	0	х	0
S_	х	0	х	х	х	o	х	х	0	0	0	х	х
t	х	0	х	х	х	o	х	х	х	0	0	0	0
t <sup>h</sup>	o	х	х	х	0	o	х	х	0	О	0	х	х
х	0	0	_x	х	0	0	0	х	х	х	0	х	х
Y	0	0	х	х	х	0	0	х	0	O	0	х	0
Z	х	0	0	х	х	х	0	х	х	o	0	0	х
dz	х	Х	х	х	0	0	0	х	0	0	0	х	0
ts	О	0	х	х	х	х	o	0	х	0	0	0	0
ts <sup>h</sup>	х	х	0	х	0	o	х	0	0	х	0	х	0
ts	х	0	Х	х	Х	0	Х	0	0	х	0	0	0
tc <sub>p</sub>	х	х	х	х	х	х	х	х	х	х	0	0	0
t∫ħ	х	o	х	х	0	х	х	х	0	0	C	х	х
dz	х	х	х	х	х	х	х	х	х	х	C	х	х

Table 2: The co-occurrence of vowels and consonants of major vilable.

x : occurring , o : non-occurring

# From table 2 it could be seen that:

- 1. All consonant phonemes can occur initially in major syllable.
- 2. All vowel phonemes can occur in major syllable.
- 3.1 a 1 is the vowel phoneme that has widest distribution in major syllable.
- 4./ã/ is the vowel phoneme that has narrowest distribution in major syllable.
- 5. All vowel phonemes except / a / can occur with / n /.
- $6./\tilde{a}$  / never occur with /d / and /d3/.
- 7. There are only 2 vowel phonemes / ɛ /, / a / which can occur with / ŋ /.
- 8. Nasalised vowel never occur with / xh/.

vowel	i	e				T				7	ã	5	
consonant	1	6	3	a	Э	ш	u	)	0	Ø	a	) 3	ũ
r		0	х	х	0			, , , , , , , , , , , , , , , , , , ,	v				
				_	<u> </u>	X	Х	X	Х	X	0	X	X
b	X	0	X	X	Х	X	Х	Х	Х	X	0	Х	0
d	X	X	X	X	Х	Х	Х	Х	X	0	Х	Х	X
g	0	0	0	Х	Х	Х	Х	Х	Х	0	0	Х	0
<u>h</u>	0	0	X	0	Х	X	X	Х	X	0	0	0	X
j	х	х	х	Х	х	х	х	х	х	х	0	0	X
k	0	0	0	х	х	х	х	х	х	0	0	х	0
k <sup>h</sup>	0	0	х	х	х	х	х	х	х	х	0	х	o
1	х	х	x	х	х	0	х	х	х	0	х	х	х
m	х	х	x	х	x	0	х	х	х	0	х	0	o
n	х	0	х	х	o	х	х	х	0	х	х	х	0
ņ	х	o	х	х	o	o	0	o	х	o	0	0	х
Ŋ	0	o	х	х	х	0	o	х	0	х	0	О	0
р	o	0	х	х	O	х	х	х	х	o	0	0	o
p <sup>h</sup>	х	0	х	х	0	х	х	х	х	0	0	х	0
S	х	0	х	х	х	0	0	х	0	0	0	х	х
t	0	0	х	х	х	0	х	0	0	o	0	o	o
t <sup>h</sup>	х	х	х	х	O	О	х	х	0	х	х	х	0
х	o	o	0	х	o	0	0	х	х	х	0	х	O
Y	0	0	х	х	х	0	х	х	0	х	0	х	0
Z	х	0	0	х	х	0	0	х	0	0	0_	х	х
dz	Х	0	х	х	Х	х	x	х	0	o	0	х	0
ts	o	О	х	0	х	х	0	х	х	0	0	0	0
ts <sup>h</sup>	х	х	х	х	0	0	o	х	0	0	0	х	0
tr	х	х	х	х	0	х	х	х	0	х	0	0	o
te <sup>h</sup>	х	0	х	х	х	0	х	х	х	х	О	х	х
tJh	Х	o	х	х	х	х	0	х	0	х	0	х	х
dz	х	х	х	х	х	х	х	х	0	х	o	х	0

Table 3: The co-occurrence of vowels and consonants in minor syllable.

 $\boldsymbol{x}$  : occurring ,  $\boldsymbol{o}$  : non-occurring

## From table 3 it could be seen that:

- 1. All consonant phonemes can be the initial of minor syllable.
- 2. All vowel phonemes can occur in minor syllable.
- 3. Vowel phonemes which have the widest distribution in minor syllable are /a/ and /o/.
- 4. Vowel phonemes which have the narrowest distribution in minor syllable is  $/ \tilde{a} / .$
- 5. All vowel phonemes except / Ø / occur with / d /.

vowel	i	е	3	a	ə	w	u	၁	O	ø	ã	õ	ũ
bj	o	0	х	х	o	o	o	o	o	0	х	0	х
mj	0	0	o	х	х	0_	0	0	х	0	х	0	0
pj	o	0	х	х	o	0	0	0	0	o	o	o	0
phj	0	0	х	0	0	0	х	o	0	o	o	0	o

Table 4: The co-occurrence of vowels and consonant clusters in minor syllable.

x : occurring

o: non-occurring

#### From table 4 it could be seen that:

- 1. Vowel phonemes which have the widest distribution with consonant cluster in minor syllable are  $/ \alpha / \alpha$  and  $/ \epsilon / \alpha$ .
- 2. There are only 7 vowel phonemes that can occur with consonant cluster in minor syllable, they are  $/\epsilon$ , a,  $\Rightarrow$ , u, o,  $\tilde{a}$ ,  $\tilde{u}$  /.
- 3. There are 6 vowel phonemes /i, e, w, 0,  $\emptyset$ , 5 / that never occur with consonant cluster in minor syllable.
- 4./ a / only occurs with / mj /.
- 5./u/ only occurs with /phj/.
- 6. / o / only occurs with / mj/.
- 7./ ũ / only occurs with / bj /.

vowel	i	e	ε	a	ə	w	u	Э	0	ø	ã	õ	ű
bj	0	0	х	х	0	0	0	Х	0	Х	х	0	х
mj	0	0	х	х	0	0	0	х	х	0	х	0	0
pj	0	0	х	х	0	0	0	0	0	0	0	0	0
p <sup>h</sup> j	0	0	х	х	0	0	х	х	0	0	0	0	х

Table 5: The co-occurrence of vowels and consonant clusters in major syllable.

x : occurring

o: non-occurring

## From table 5 it could be seen that:

- 1. Vowel phonemes which have the widest distribution with consonant cluster in major syllable are / ɛ / and / a /.
- 2. There are 8 vowel phonemes that can occur with consonant cluster in major syllable, they are: /ɛ,a,u,ɔ,o,ø,ã,ũ/.
- 3./i, e, ə, w, 5/ never occur with consonant cluster in major syllable.
- 4. / u / only occurs with / phj /.
- 5./o/ only occurs with /mj/.
- 6./ø/ only occurs with /bj/.

#### CHAPTER V

#### **PHONEMES**

## 5.1 General definition

The phoneme is defined as the rank whose units function in the syllable. It is the lowest rank of the hierarchy and therefore it has no statable structure, but the phonetic forms of phonemes may be described.

# 5.2 Phonemes in Akha language

There are both segmental and suprasegmental phonemes in Akha language. In this study, a segmental phoneme is stated in terms of consonant and vowel and suprasegmental phoneme is stated in terms of tone. Therefore, on the basis of their function in the syllable, there are 3 classes of phonemes; consonant, vowel and tone.

#### 5.3 Consonant Phonemes

#### 5.3.1 General definition

Consonant are sounds made by a closure or narrowing in the vocal tract so that the airflow is either completely blocked, or so restricted that audible friction is produced. Consonant articulations are relatively easy to feel, and as a result are most conveniently described in terms of Place and Manner of articulation. In addition, a routine phonetic description of consonants would involve information about the mode of vibration of the vocal cords, and it is often necessary to specify the duration of the sound, the airstream mechanism involved and the direction of airflow. From a phonological point of view, consonants are those units which function at the margins of syllables, either singly or in clusters. (Crystal 1991:74).

Akha consonant phonemes function as a syllable periphery. There is no contrast between short and long consonants. Therefore the length of consonants is

not phonemic.

## 5.3.2 Consonant Chart

There are 28 consonant phonemes in the Akha language (spoken in Pa-kha-suk-jai village) All of which only occur initially in a syllable, except / j / which can occur as the second member of the CC.

In the following chart, each of them will be grouped according to their manners and points of articulation. They are divided into 6 groups; plosive, fricative, affricate, nasal, lateral and approximant.

Point	of			Palato-			
A	Articulation	Bilabial	Alveolar	alveolar	Palatal	Velar	Glottal
Manner							
of Articula	tion						
	vl.	P	t			k	2
	unasp.						
Plosives	vl. asp.	$p^{h}$	th			kh	
	vd.	b	d			g	
Fricatives	vl.		S			х	h
	vd.		Z			¥	
	vl.		ts		<b>t</b> c		
	unasp.						
Affricates	vl.asp.		ts <sup>h</sup>	t∫ħ	t¢h		
	vd.		dz	đз			
Nasals	vd.	m	n		n	ŋ	
Laterals	vd.		1				
Approxi-	vd.				j		
mant							

Table 6: Consonant Chart

#### 5.3.3 Formational Statement

#### 5.3.3.1 Plosives

Plosive is a term used in the phonetic classification of consonant sounds on the basis of their manner of articulation; it refers to a sound made when a complete closure in the vocal tract is suddenly released, the air pressure which had build up behind the closure rushes out with an explosive sound, hence the term.(Crystal 1991:266).

- / p / is a voiceless unaspirated bilabial plosive which is realised as follows:
  - [p] a voiceless unaspirated bilabial plosive.

For example:

/ ph / is a voiceless aspirated bilabial plosive which is realised as follows:

[ph] a voiceless aspirated bilabial plosive.

For example:

/b/ is a voiced bilabial plosive which is realised as follows:

[b] a voiced bilabial plosive.

For example:

- /t/ is a voiceless unaspirated alveolar plosive which is realised as follows:
  - [t] a voiceless unaspirated alveolar plosive.

For example:

- /  $t^h$  / is a voiceless aspirated alveolar plosive which is realised  $_{3\%}$  follows:
  - [th] a voiceless aspirated alveolar plosive.

For example:

/ d / is a voiced alveolar plosive which is realised as follows[ d ] a voiced alveolar plosive.

For example:

/k/ is a voiceless unaspirated velar plosive which is realised ~ follows:

[k] a voiceless unaspirated velar plosive.

For example:

- / kh/ is a voiceless aspirated velar plosive which is realised as follows:
  - [kh] a voiceless aspirated velar plosive.

For example:

- /g/ is a voiced velar plosive which is realised as follows:
  - [g] a voiced velar plosive.

For example:

- / ? / is a voiceless glottal plosive which is realised as follows:
  - [7] a voiceless glottal plosive.

For example:

5.3.3.2 Fricatives

Fricative is a term used in the phonetic classication of monant sounds on the basis of their manner of articulation: also sometimes called trant, it refers to sounds made when two organs come so close together that the anoving between them produces audible friction. There is no complete closure becan the organs (in which case a plosive articulation would be produced): there is imply a stricture. (Crystal 1991:143).

131 is a voiceless alveolar fricative which is realized as follow:

[3] a voiceless alveolar fricative.

For example:

- /z/is a voiced alveolar fricative phoneme. It has two allophness which are realised as follows:
  - [8] a voiced interdental alveolar fricative. It we occur only with low central vowel; / a /.

For example:

[z] a voiced alveolar fricative. It can occur elsewhere

For example:

/x/ is a voiceless velar fricative which is realised as follows.

[x] a voiceless velar fricative.

For example:

/  $\gamma$  / is a voiced velar fricative which is realised as follows:

[ y ] a voiced velar fricative.

For example:

/h/ is a voiceless glottal fricative which is realised as follows: [h] a voiceless glottal fricative.

For example:

#### 5.3.3.3 Affricates

Affricate is a term used in the classification of consonant sounds on the basis of their manner of articulation. It refers to a sound made when the airpressure behind a complete closure in the vocal tract is gradually released; the initial release produces a plosive, but the separation which follows is sufficiently slow to produce audible friction, and there is thus a fricative element in the sound also. However, the duration of the friction is usually not as long as would be the case of an independent fricative sound. (Crystal 1991:12)

There are 7 affricate phonemes in Akha language.

/ ts / is a voiceless alveolar affricate which is realised as follows:

[ts] a voiceless alveolar affricate.

For example:

/ tsh / is a voiceless aspirated alveolar affricate which is realised as follows:

[tsh] a voiceless aspirated alveolar affricate.

For example:

/dz / is a voiced alveolar affricate which is realised as follows: [dz] a voiced alveolar affricate.

For example:

/ te / is a voiceless palatal affricate which is realised as follows:

[t ] a voiceless palatal affricate.

For example:

/ th/ is a voiceless aspirated palatal affricate which is realised as follows:

[th] a voiceless aspirated palatal affricate.

For example:  $/ \ \psi^{h_i} \ 1 \ 29 \ 1 \ / \ ['\psi^{h_i} \ 33 \ 29 \ 33]$  'to hang up,to lift'  $/ \ \psi^{h_e} \ 5 \ 29 \ 1 \ / \ ['\psi^{h_e} \ 55 \ 29 \ 33]$  'to pickle'  $/ \ \psi^{h_i} \ 5 \ ha \ 3 \ / \ [.\psi^{h_i} \ 55 \ ha \ 21 \ ]$  'barking deer'

/ thi 5 ha 3 / [,thi 55 'ha 21] 'barking deer' / thi 3 / ['thi 21] 'a top'

/ tfh / is a voiceless aspirated palato-alveolar affricate phoneme which is realised as follows:

[tfh] a voiceless aspirated palato-alveolar affricate.

For example:

/d3 / is a voiced palato-alveolar affricate phoneme which is realised as follows:

[d3] a voiced palato-alveolar affricate.

For example:

#### 5.3.3.4 Nasals

Nasal is a term used in the phonetic classification of speech sounds on the basis of manner of articulation: it refers to sounds produced while the soft palate is lowered to allow an audible escape of air through the nose. Both consonants and vowels may be articulated in this way. Nasal consonants occur when there is a complete closure in the mouth, and all the air thus escapes through the nose. (Crystal 1991:229).

/m/ is a voiced bilabial nasal which is realised as follows:

[m] a voiced bilabial nasal.

For example:

/n/ is a voiced alveolar nasal which is realised as follows:

[n] a voiced alveolar nasal.

For example:

/ n / is a voiced palatal nasal which is realised as follows:

[n] a voiced palatal nasal.

For example:

/ n / is a voiced velar nasal which is realised as follows:

[ŋ] a voiced velar nasal.

For example:

5.3.3.5 Lateral

Lateral is a term used in the phonetic classification of consonant sounds the basis of their manner of articulation: it refers to any sound where the air escapes around one or both sides of a closure made in the mouth, as in the various types of 'l' sound in English. Air released around only one side of the tongue produces unilateral sounds; around both sides bilateral sounds. (Crystal 1991:195).

/1/ is a voiced alveolar lateral which is realised as follows:
[1] a voiced alveolar lateral.

For example:		
/ lo 3 /	[ 'lɔ <sup>21</sup> ]	'boat'
/ li 4 /	['li <sup>2 21</sup> ]	'python'
11531	[ '15 <sup>21</sup> ]	'rabbit'
/lu 5 % 1/	[ 'lu <sup>55</sup> % <sup>33</sup> ]	'to fly'

# 5.3.3.6 Approximant

Approximant is a general term used by some phoneticians in the classification of speech sounds on the basis of their manner of articulation, and corresponding to what in order approaches would be called frictionless continuants, and all vowels. The term is based on the articulations involved, in that one articulator approaches another, but the degree of narrowing involved does not produce audible friction. (Crystal 1991:23).

- /j/ is a voiced palatal approximant which is realised as follows:
  - [j] a voiced palatal approximant. It can occur not only as the first element of initial position in the syllable but also as the second element in the consonant cluster.

/ mja 1 
$$p^{h}$$
jo 3 / [, $m$ ja  $^{33}$ ' $p^{h}$ jo  $^{21}$ ] 'forehead'

# 5.3.4 Consonant Phoneme Contrast

All consonants described above are phonemically contrastive in Akha. The suspect pairs of consonants which are contrastive in identical environments (IE) are shown below together with some examples:

Consonant Phonemics	<u>Example</u>	
/p/-/p <sup>h</sup> /	/pu 3 20 1/	'to boil'
	/ phu 3 20 1 /	'to be born'(animal)
/p/-/b/	/ pa 3 20 1 /	'to tie'
	/ba32ə1/	'to carry'
	/po1291/	'to look for'
	/ bo 1 20 1 /	'to write'
/b/-/p <sup>h</sup> /	/bi5?ə1/	'to share'
	/phi 5 2 1 /	'hot of taste'
/t/-/d/	/2a3 tu5/	'artificial'
	/2a3du5/	'brother-sister's child'
	/tc 1 ma 2 /	'guava'
	/dε 1 ma 2/	'wet-rice field'
/ t / - / t <sup>h</sup> /	/te 1 20 1 /	'to forge the iron'
	/t <sup>h</sup> ε 1 2 1 1	'to chase'
/ d / - / t <sup>h</sup> /	/de 3 2 1/	'to use abusive
	/ the 3 % 1 /	'to cut'
/p/-/m/	/2a 1 pi 5 /	'whistle'
	/ 2a 1 mi 5 /	'cat'

/b/-/m/	/ 2a 1 bo 5 /	'tree'
	/ 2a 1 mo 5 /	'insect'
/ k / - / k <sup>h</sup> /	/ka 1 20 1 /	'to comb'
	/k <sup>h</sup> a 1 ?ə 1 /	'to grow'
/k <sup>h</sup> /-/g/	/k <sup>h</sup> u 5 20 1/	'to call'
	/gu 5 2 1 /	'to shout'
	/ khố 3/	'classifier for 1 bannoo tree'
	/ gố 3 /	'a spear,a sword
/k/-/x/	/ko 4/	'six'
	/ xo 4/	'year,age'
/g/-/y/	/ga3201/	'to love'
	/ ya 3 /	'classifier for person
/x/-/y/	/ xa 1 ?ə 1 /	'to spit'
	/ ya 1 % 1/	'to float'
	/ xo 1 ?e 1 /	'to spread out'
	/ 1 ef 1 cy /	'to divorce,to separate'
/ k <sup>h</sup> / - / x /	/ k <sup>h</sup> ố 3 /	'classifier for 1 bamboo tree'
	/ xɔ̃ 3 /	'chest'
	/k <sup>h</sup> a 1 7  1/	'to grow'
	/xa 1 29 1 /	'to spit'
/2/-/h/-/k/	/ 20 1 20 1 /	'to sneak away'
	/ ho 1 % 1 /	'to look at'
	/ko 1 % 1/	'to stir,to be smart,to
		row'

131-121	/ sa 3 7 1 1	'to steam'
	/ za 3 7ə 1 /	'to weave'
	/so 1 % 1/	'to smear'
	/ co 1 % 1 /	'to fly'
/m/-/n/	/ mo 5/	'classifier for
		animal,car,
		bicycle,radio, television
	1 no 51	'2 <sup>nd</sup> person pronoun
/n/-/n/	/ ne 4/	'spirit'
	/ pe 4 % 1/	'to catch'
	1	
/n/-/ŋ/	/ na 3 2 1 /	'to break, to rest'
	/ na 3 20 1 /	'to borrow'
/ n / - / n /	/ ne 3 % 1 /	'to massage <sup>r</sup>
	/ ne 3 % 1 /	'to say,to speak'
/n/-/j/	/ jo 1 ja 2 /	'difficult'
1 ( ) (	/ jo 1 na 2 /	'black'
	/ jo 1 ja 4 /	'to be ripe'
	/ jo 1 na 4 /	'deep'
/p/-/j/	/ ne 3 20 1 /	'to massage"
	/ je 3 2 1 /	'to be drunk'
	/ ne 4 20 1 /	'to catch'
	/ je 4 7ə 1 /	'to reap'
/p/-/1/	/ pi 4 /	'two'
•	1 ii 4 1	'python'
	/ ps 3 % 1/	'to massage'
	/ le 3 % 1 /	'to smear'

/d/-/1/	/de 3 % 1/	'to use abusive
		language'
	/ le 3 % 1 /	'to smear'
	/do 3 % 1/	'to cling'
	/ lo 3 % 1 /	'to dry in sun'
	`	
/ tʃ <sup>h</sup> / - / dʒ /	/ tʃ <sup>h</sup> i 5 7ə 1 /	'to die'
	/dzi 5 20 1 /	'to finish'
	/t∫ <sup>h</sup> ε12ə1/	'to pour'
	/dʒe 1 ?ə 1 /	'to shave,to scrape'
/ ʦ / - / ʦʰ /	/ tse 3 % 1 /	"to bark"
	/ tshe 3 no 1 /	"to plow"
/ ts / - / dz /	/ tsw 4 ?ə 1 /	'to peel the fruit (by
		knife)'
	/dzw 4 7  1/	'to wash,to take a
		bath'
/ ts / - / ts /	/ ቴε 1 % 1/	'to bark'
	/ tre 1 20 1 /	'to run'
/dz/-/dʒ/	/dzə 3 7ə 1 /	'to weave a basket'
	/dʒə 3 2ə 1 /	'to be pregnant'
	/ dze 1 7ə 1 /	'to abort, to miscarry'
	/ d3e 1 ?ə 1 /	'to shave, to scrape'
/ \$\psi / - / \$\psi /	/ tre 1 % 1 /	'to run'
	/ \$\psi 1 ?\text{1 ?\text{3}}	'to fight each other'
	/tcu 1 20 1 /	'to suck,to beset,to
		plague'

	/ \$hu 1 20 1 /	'to raise the animals'
/ tch / - / tsh /	/ फ्र <sup>h</sup> ɔ 3 /	'friend' 'waterfal <b>l'</b>
\ æ <sub>p</sub> \ - \ t\ <sub>p</sub> \	/ ts <sup>h</sup> a3 ?ə 1/ / tʃ <sup>h</sup> a 3 ?ə 1 /	'to guess' 'true'
/ \$\psi^ / - / tJ^ /	/ ts <sup>h</sup> i 1 ?ə 1/ / ts <sup>h</sup> i 1 ?ə 1 /	'to hang up.x lift'

## 5.3.5 Classification of consonants

Consonant phoneme in Akha language may be divided into 2 subclasses according to their distributions of occurence in the syllable as follows.

# 5.3.5.1 Consonant sub-class C1

The consonant phonemes which occur only at the initial position of the syllables. Their symbolization in the syllable pattern is  $C_1$ . They are  $\ell$  2, b, d, g, h, k, kh, l, m, n, n, n, p, ph, s, t, th, x, y, z, dz, ts, tsh, tc, tsh, tfh, d3/.

For examples:	
/ 2i 5 2a 1 /	'to go'
/ba3ba2/	'cheek'
/do 4/	'poison'
/ gɔ̃ 3/	'a spear,a sword'
/ ho 3 /	'cooked rice'
/ ko 4 /	'six'
/k <sup>h</sup> o 2 k <sup>h</sup> a 5 /	'the knuckles of the hand'
/ k <sup>h</sup> o 2 k <sup>h</sup> a 5 / / le 2 /	'the knuckles of the hand' 'market'
/ le 2 /	'market'
/ le 2 / / mã 3 /	'market' 'horse'
/ le 2 / / mã 3 / / ne 4 /	'market' 'horse' 'spirit'

or at the same of the

1 phu 2 1 'village' 1 se 31 'the reed of a loom' 'classifier for 1 piece of paper' / ta 4 / 1th 31 'drum' 1 xo 41 'year,age' 1 xø 31 'nine' / zə 1 ?ə 1 / 'to twist' /dzu 4/ 'a pair of shoes' / tso 2 2a 1/ 'to build' 1 tshe 51 'ten' 'machine' 1 tra 1 / 1 \$h5 3 1 'a top' / tshi 4 / 'seven' 1 dzw 5 1 'cuspid'

## 5.3.5.2 Consonant sub-class C<sub>2</sub>

The consonant phoneme which can occur both initially and as the second element of the consonant cluster. Its symbolization in the syllable pattern is C2. There is only one phoneme and it is / j /.

## 5.3.5.2.1 Occurs initially

For examples:

/ ja 3 / 'a mountain goat'
/ jɛ 5 / 'soldier'
/ jɛ 4 / 'eight'
/ jɔ 1 ja 5 / 'cheap'
/ jɔ 1 jɔ 4 / 'dirty'

5.3.5.2.2 Occurs as the second element in the consonant cluster.

For examples:

/ bja 3 / 'bee'

....<u>..نمد</u>.ت<u>نم</u>ي....

/ bju 5 20 1 / 'to pile up'
/ mjo 4 20 1 / 'to lick'
/ phju 5 / 'silver,money'
/ pje 3 20 1 / 'a pig-tail,a tassel'

#### 5.3.6 The Consonant Cluster

Cluster is a term used in the analysis of connected specifito refer to any sequence of adjacent consonants occurring initially of finally in a syllable. (Crystal 1991:58).

In this language, the consonant cluster always occur only at the initial position of the syllable. Only bilabial consonant /p/,  $/p^h/$ , /b/, /m/ can occur as the first element of consonant cluster.

For examples:

/ pje 3 2a 1a/ 'a pig-tail,a tassel' / pja 1 20 1 / 'to claw, to scratch, to demoish' / bia 3 tru 4 tru 4 20 1 / 'to fondle' / bjű 5 2 1 / 'to pile up' 1 bja 3 / 'bee' / p<sup>h</sup>jε 3 2 1/ 'to untie' / phju 5 / 'silver, money' 'eye-glasses' /mja 1 to 2/ 'to lick' / mjə 4 7ə 1 /

#### 5.4 Vowel Phonemes

Akha language vowel phonemes function as the syllable nucleus. There are 13 vowel phonemes: / i, e,  $\epsilon$ , a, o, o, u, w, ə, ø  $\tilde{a}$ ,  $\tilde{u}$ ,  $\tilde{o}$  /. The length of vowels is not contrastive. All vowel phonemes can be separated by the place of articulation into two sub-classes; oral vowels and nasal vowels as follows:

5.4.1 Oral vowel

There are 10 oral vowels: /i, e, e, a, o, o, u, w, ə, ø/.

#### 5.4.2 Nasal vowel

There are 3 nasal vowels: / ã, õ, ũ /.

#### 5.5 Vowel Phonemes Chart

Vowels are sounds articulated without a complete closure in the mouth or a degree of narrowing which would produce audible friction; the air escapes evenly over the centre of the tongue. If air escapes solely through the mouth, the vowels are said to be oral; if some air is simultaneously released through the nose, the vowels are nasal. In addition to this, in a phonetic classification of vowels, references would generally be made to two variables, the first of which is easily describable, the second much less so (a) the position of the lips - whether rounded, spread or neutral; (b) the part of the tongue raised, and the height to which it moves. From a phonological point of view, vowels are those units which function at the centre of syllables. (Crystal 1991:377).

All 13 vowel phonemes, arranged according to tongue position; are shown in the table.

Tongue position	Front		Central	Back	
Tongue Height	unrounded	rounded		unrounded	rounded
Closed	i			w	u
Half-closed	e	ø	Э		0
Half-open	3				၁
Open			a		
Nasal vowels					ũ
			ã		õ

Table 7: Akha vowel phonemes.

#### 5.5.1 Formational statement.

- /i/ is a closed front unrounded vowel which is realised as follows:
  - [i] a closed front unrounded vowel. It occurs in a syllable with all tones.

- /e / is a half-closed front unrounded vowel which is realised as follows:
  - [e] a half-closed front unrounded vowel.

For example:

- /ø/ is a half-closed front rounded vowel which is realised as follows:
  - [ø] a half-closed front rounded vowel.

For example:

/ε/ is a half-open front unrounded vowel which is realised as follows:



[ε] a half-open front unrounded vowel.

For example:

/a/ is an open central vowel which is realised as follows:

[a] an open central vowel.

For example:

/ 
$$2a \ 3 \ la \ 4$$
 [  $2a \ 2^{1} \ la \ 2^{21}$ ] 'hand'  
/  $2a \ 5 \ ja \ 3$  | [  $2a \ 5^{5} \ ja \ 2^{1}$ ] 'time, chance'  
/  $2a \ 3 \ a \ 2$  | [  $2a \ 5^{5} \ ja \ 2^{1}$ ] 'soot, lampblack'  
/  $2a \ 3 \ a \ 5$  | [  $2a \ 2^{1} \ ba \ 2^{21}$ ] 'a brassiere'  
/  $2a \ 3 \ a \ 5$  | [  $2a \ 2^{1} \ ba \ 3^{21}$ ] 'soul'

/  $\tilde{a}$  / is an open central nasal vowel which is realised as follows:

[ã] an open central nasal vowel.

For example:

/ ɔ / is a half-open back rounded vowel which is realised as follows:

[3] a half-open back rounded vowel.

For example:

- 151 is a half-open back rounded nasal vowel which is realised as follows:
  - [5] a half-open back rounded nasal vowe.

For example:

- /o/ is a half-closed back rounded vowel which is realised as follows:
  - [o] a half-closed back rounded vowel.

For example:

- /u/ is a closed back rounded vowel which is zealised as follows:
  - [u] a closed back rounded vowel

For example:

/ ũ / is a closed back rounded nasal vowel which is realised as follows:

[ũ] a closed back rounded nasal vowel.

For example:

/w/ is a closed back unrounded vowel which is realised as fallows:
/w/ a closed back unrounded nasal vowel.

For examples:

/ ə / is a half-closed central vowel which is realised as follows:
[ ə ] a half-closed central vowel.

For example:

#### 5.5.2 Vowel Phoneme Contrast.

All vowels described above are phonemically contrastive in Akha. The suspect pairs of vowels which are contrastive in identical environments (IE) are shown below together with some examples:

Vowel phonemes	<b>Examples</b>	
/i/-/e/	1 ts <sup>h</sup> i 5 1	'fat,oil'

	/ ថ <sup>h</sup> e 5/	'ten'
/i/-/ε/	/ th <sup>h</sup> i 1 20 1 / / th <sup>h</sup> e 1 20 1 /	'to hang up,to lift' 'to fight each other'
/i/-/a/	/ me 3 li 5 / / me 3 la 5 /	'mouth organ' 'tongue'
/i/-/w/	/ 7 i 5 % 1 / / 7 cc 5 % 1 /	'to go' 'to laugh'
/i/-/ɛ/-/a/	/si 3 20 1 / /se 3 20 1 / /sa 3 20 1 /	'to sharpen' 'to scatter' 'to steam'
/e/-/ε/	/dze 1 29 1/ /dze 1 29 1/	'to blow the nose' 'to shave,to scrape'
/a/-/ə/	/ ya 1 20 1 / / ya 1 20 1 /	'to float' 'to crank the machine'
/a/-/s/	/ k <sup>h</sup> a 3 da 3/ / k <sup>h</sup> o 3 da 3/	'a trap' 'a mattress'
101-101	/ te <sup>h</sup> o 3 ?= 1 / / te <sup>h</sup> o 3 ?= 1 /	'to stagger,to reel' 'to persuade'
/e/-/o/-/o/-/a/-/a		'to smear'  'to dry in sun'  'enough'  'to peel (fruit) by  hand'
	/ lu 3 20 1/	'to grab'

/u/-/w/	/gu 12=1/ /gu 12=1/	'to fear' 'to count'
/u/-/ø/	/ 2u 3 ma 2 / / 2ø 3 ma 2 /	'belly' 'grand child'
/ɔ/-/ø/	/jo 1 do 5/ /jo 1 dø 5/	'straight' 'lazy'
/e/-/ø/	/dʒe 1 2ə 1/ /dʒø 1 2ə 1/	'to blow the nose' 'to crawl (snake)'
/ε/-/ø/	/ \$\tau^h \varepsilon 5 20 1 / / \$\tau^h \psi 5 20 1 /	'to pickle' 'to be able to'
/a/-/ã/	/ ma 3 / / mã 3 /	'not' 'horse'
101-151	/ \$h 3 / / \$h 3 /	'friend' 'a top'
/u/-/ũ/	/du32=1/ /dű3/	'to dig' 'classifier for book'
/ã/-/ű/	/ 2a 1 hã 5 / / 2a 1 hũ 5 /	'leopard cat' 'mushroom'

### 5.6 Suprasegmental phoneme.

Suprasegmental is a term used in Phonetics and Phonology to refer to a vocal effect which extends over more than one sound segment in an utterance, such as a pitch, stress or juncture pattern. (Crystal 1991:337).

It can be defined that the tonal system in Akha language has phonemically distinctive features. And in final conclusion, there are five contrastive tonemes in Akha language spoken in Pa-kha-suk-jai village. Akha tones function, together with vowels, as the syllable-nucleus.

Phonemic	Description	Tone	Phonetic
Notation		Stick	Transcription
/1/	mid-level	<b> </b>	[33]
121	creaky mid-level		[ '33 ]
131	mid-low_falling		[ <sup>21</sup> ]
141	glottalized mid-low falling	h2	[221]
151	high-level		[ <sup>55</sup> ]

Table 8: Akha tonemes.

#### 5.6.1 Formational statement

 $/1/[^{33}]$  a mid-level tone. Its tonal figure starts from mid-level, and continues and ends at the same range.

Examples:

/ la 1 li 1 29 1 / [, la 
$$^{33}$$
 'li  $^{33}$  29  $^{33}$ ] 'to wag the tail' / kha 1 29 1 / ['kha  $^{33}$  29  $^{33}$ ] 'to grow' / hɔ 1 29 1 / ['hɔ  $^{33}$  29  $^{33}$ ] 'to look at' /  $\mathfrak{p}^h\mathfrak{T}$  1 29 1 / [' $\mathfrak{p}^h\mathfrak{T}$  33 29  $^{33}$ ] 'to walk' /  $\mathfrak{t}^h\mathfrak{T}$  1 / [' $\mathfrak{t}^h\mathfrak{T}$  33] 'a log,timber'

121 ['33] a creaky mid level tone. Its tonal figure starts from mid level and stays at the same range. At the end of the tone, there is a creaky constriction. The vowel length is shorter than 11/.

All five tonemes are contrastive in identical environment (IE) as shown below:

<u>Tonemes</u>	Examples	
/ 1 /- / 4 / - / 5 /	/gu 1 2 1/	'to fear'
	/ gu 4 2ə 1/	'to sew'
	/ gu 5 2ə 1 /	'to shout'
131-141-151	/je 3 % 1/	'to be drunk'
	/je 4 % 1/	'to reap'
	/ je 5/	'soldier'
121-131-151	/bi2?ə1/	'to give'
	/ bi 3 % 1/	'to throw'
	/ bi 5 20 1 /	'to share'
121-131	/ 2a 3 no 2/	'periwinkle,shell'
	/ 2a 3 no 3/	'buffalo'
	/do 3 p <sup>h</sup> ε 2/	'near,close to'
	$18  \mathrm{s}^{\mathrm{h}} \mathrm{g}  \mathrm{cb}$	'the bole of a tree'
141-151	/ jo 1 tJhw 4/	'new'
	/ is 1 tJhw 5/	'yellow'
	/ jo 1 dzu 4/	'to shrivel'
	/ jo 1 dzu 5/	'muddy'
	11 4 2 1 - 2 1	Unanainal
131-151	/ bø 3 ha 3 /	'intestinal worm'
	/bø 5 ha 3/	'bat'
	/ mo 3 20 1/	'to want'
	/ mo 5 % 1 /	'to see'
121-141	/ jo 1 na 2/	'black'
(21-(31	/jo 1 na 4/	'deep'
	/ jo 1 ja 2 /	'difficult'
	/ jo 1 ja 4/	'to be ripe'
	1 10 1 10 11	10 00 mpo

and the second s

	/ na 3 pa 2/	'a label,a sign'
	/na 3 pa 4/	'ear'
131-141	/ tyhi 3 /	'blood'
	/ tshi 4/	'seven'
	/ 2a 3 za 3 /	'son-in-law'
	/2a 3 za 4/	'pig'
/1/-/3/	/pa 1 2= 1/	'to split,to hew'
	/pa 3 2 1/	'to tie'
	/da 1 2 1/	'to owe'
	/da 3 2= 1/	'to play cards'
/1/-/4/	/dε 1 <b>2</b> = 1/	'to thrash'
	/dε 4 2 1/	'to press down'
	/ko 1 2e 1/	'to stir,to be
		smart,to row'
	/ko 4 <b>2</b> a 1/	'to bite'
/1/-/5/	/k <sup>h</sup> a 1 <b>2</b> = 1/	'to grow'
	/k <sup>h</sup> a 5 % 1/	'to drive'
	/lu 1 2= 1/	'to grab'
	/ Iu 5 % 1/	'to fry'
.112.	/io 1 20 1 /	'to roll'
/1/-/2/	/jo 1 2= 1 / /jo 2 2= 1 /	'to shake'
	( )0 2 18 1 (	to snake

#### CHAPTER VI

#### CONCLUSION AND SUGGESTIONS

#### FOR FURTHER STUDIES

#### 6.1 Conclusion of Pa-kha-suk-jai dialect.

There are 28 consonant phonemes: /p, t, k, 2, b, d, g, p<sup>h</sup>, t<sup>h</sup>, k<sup>h</sup>, h, s, z, m, n, n, n, l, t $f^h$ , dz,  $\mathfrak{w}$ ,  $\mathfrak{w}^h$ ,  $\mathfrak{w}$ ,  $\mathfrak{w}^h$ , dz, x,  $\mathfrak{v}$ , j/, 13 single vowels: 10 oral vowels / i, e,  $\varepsilon$ , a,  $\mathfrak{o}$ , o, u,  $\mathfrak{w}$ ,  $\mathfrak{o}$ ,  $\mathfrak{o}$  / and 3 nasalized vowel /  $\tilde{\mathfrak{a}}$ ,  $\tilde{\mathfrak{o}}$ ,  $\tilde{\mathfrak{u}}$  / no diphthongs. There are 5 tonemes:

- /1/- mid level tone
- 121 creaky mid level tone
- 134- mid-low falling tone
- 141- glottalized low falling tone
- 151- high level tone

#### 6.2 Comparison with a former study

The reference data of another dialect used in this chapter were taken from "Akha Phonology" in Anthropological Linguistics, vol. 10, No. 2, 1968. by Paul Lewis, University of Colorado. This dialect is the Pu-li dialect, as spoken in central and central eastern of Keng Tung state.

The phonological data on Pa-kha-suk-jai dialect is from the writer's own analysis presented in chapter 2 to chapter 5.

The state of the s

Consonant phonemes	Bilabial	Alveolar	Alveo palatal	Velar	Glottal
Stop vl.	p	t	pattar	k	2
Stop vd.	b ·	d		g	
Affricate vl.		ts	С		
Affricate vd.		dz	j		
Fricative vl.		S	š (sh)	x (k')	h
Fricative vd.		z	у	g (g')	
Nasal	m	n		v (vd)	
Lateral		1			
Palatalized vl.	ру				
Palatalized vd.	by				
Palatalized nasal	my	ny			

Table 9: Consonant phonemes chart of Pu-li dialect by Paul Lewis Source: Lewis, Paul. "Akha Phonology" in <u>Anthropological Linguistics</u>, vol.10,No.2,1968,p. 8

Vowel phonemes	fro	ont	central	ba	ck
	unrounded	rounded		unrounded	rounded
high	i	ü		ï	u
higher-mid	e	ö		ë	0
lower-mid	ε		a		<u> </u>
low	-m			ą	

Table 10: Vowel phonemes chart of Pu-li dialect by Paul Lewis Source: Lewis, Paul. "Akha Phonology" in <u>Anthropological Linguistics</u>, vol.10, No.2, 1968,p. 10

There are 3 diphthongs that occur in certain words borrowed from Shzn. They are / ao /, / ai / and / am /.

#### Tonemes

There are 5 tonemes: 3 tonemes are level tone which occur with oral vowels, 2 tonemes are level tone which occur with laryngealized vowels. They are:

/ / - a high tone
/ / - a mid tone
/ / - a low tone
/ / - a mid tone

/ - / - a low tone

The phonological comparison of Pa-kha-suk-jai dialect and Pu-li dialect reflects the characteristics of the two dialects as follows:

In Intonation group: It is non-phonemic since it is predictable. Paul Lewis didn't mention about it. However, in Pa-kha-suk-jai dialect there are 2 types of intonation.

In Stress group: there are 4 types in both dialects. They are monosyllbic, disyllabic, trisyllabic and tetrasyllabic.

The syllable structure of both dialects are similar. It is CV(T). However in Pu-li dialect there are diphthongs so in some cases it has CVV(T).

Phonemes: regarding consonant phonemes, vowel phonemes and tonemes.

#### Consonant phonemes:

There are 28 consonant phonemes in Pa-kha-suk-jai dialect but 26 consonant phonemes in Pu-li dialect.

Evident differences are as follow:

- 1. There are no voiceless aspirated stop  $/p^h, t^h, k^h/$  in Pu-Ii dialect but occur in Pa-kha-suk-jai dialect
- 2. There are consonant cluster / Cj / which only occur with bilalial consonants in Pa-kha-suk-jai dialect but Paul Lewis interpreted those as palatalized consonants; / py /, / by /, / my /, / ny /.
- 3. There are voiced and voiceless alveo-palatal fricative [ § ], [ y ] in Pu-li dialect but none in Pa-kha-suk-jai dialect.
- 4. There are voiceless and voiceless aspirated alveo-palatal affricates [tc], [tch] in Pa-kha-suk-jai village but none in Pu-li dialect.

#### Vowel phonemes:

There are 10 oral vowels and 3 nasalized vowels in Pa-kha-suk-jai dialect but in Pu-li dialect, there are 9 vowel phonemes occur as either oral or laryngealized vowels; / i,  $\epsilon$ ,  $\ddot{o}$ , a, u, o,  $\dot{o}$ ,  $\ddot{i}$ ,  $\ddot{e}$  /, and 4 occur only as oral vowels; / e, -m,  $\ddot{u}$ ,  $\alpha$  /.

There are syllabic -m occur in Pu-li dialect but never in Pa-kha-suk-jai dialect.

There are 3 diphthongs in Pu-li dialect but never in Pa-kha-suk-jai dialect.

#### Tonemes:

There are 5 tonemes in both dialects. In Pu-li dialect, there are 3 tones that occur with oral vowels and there are 2 tones that occur with laryngealized vowels, but in Pa-kha-suk-jai dialect never occur as in Pu-li dialect.

Suggestions for Further Studies

## Suggestions for Further Studies

- 1. There are various Akha dialects in Chiangrai province. It would be interesting to compare all of them.
- 2. Besides The Phonological Study, other topics would be of interest e.g.; Akha Orthography, Sociolinguistic Study, Akha Classifiers,



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#### **APPENDIX**

The following Akha lexical items from Pa-kha-suk-jai village are presented in this list with their general meanings. The entries are arranged in the following order.

1. The order of the initial consonant of words is given in accordance with the alphabetical system.

Thus, the order of the initial consonant of words is /?, b, d, g, h, j, k,  $k^h$ , l, m, n, p, p,  $p^h$ , s, t,  $t^h$ , x, y, z, dz, ts,  $t^h$ , t,  $t^h$ , t,  $t^h$ , d3 /.

- 2. The order of the vowels is /i, e, e, a, ã, ɔ, ɔ̃, o, u, ũ, w, ə, ø/.
- 3. The order of tone is / 1,2,3,4,5 /.

# 

/ 2i 1 tʃʰű̃ 5/	'etter'	'עיח'
/ 2i 3 ba 5 ku 3 le 5 29 1 /	to be wicked'	'ชั่วร้าย'
$/$ 2i 3 ma 1 la 1 t $\int^h$ a 2 $/$	'Iske'	'บึง,ทนองน้ำ'
/ 2i 3 nɔ̃ 2/	'today'	′วันนี้
/ 7i 5 7a 1/	to go'	'ไป'
/ i 5 dw 3 dw 3 iə 1/	'to swim'	'ว่ายน้ำ'
/ 7i 5 k <sup>h</sup> a 1 7ə 1 /	'to go down'	'ลงไป'
/ 2i 5 la 3 /	'bamboo drain'	'รางไม้ไผ่ส่งน้ำ'
/ 2i 5 ne 5/	'turbid water'	'น้าขุ่น′
/ 7i 5 nữ 3 ma 3 mw 3 7ə 1 /	'to be dull (of mind), to be the	nick headed' /
		'ธมองทีบ'
/ 7i 5 nu 4 /	'brain'	'ฌมอง' 🗸
/ 2i 5 p <sup>h</sup> u 3 /	'bottle gourd'	'น้าเต้าใ <del>ม่</del> น้ำ'
/ 2i 5 yo 3 2e 1 /	'to leave'	'ไป,จากไป'
/ 7i 5 dza 4 7ə 1 /	'to drop'	ำหยดำ
/ 2i 5 tshi 1 bo 1 dw 5/	'bladder'	'กระเพาะปัญญาวะ'
/ 2i 5 tcu 4 /	'water'	′นั้า 🗸
/ 2i 5 tau 4 2i 5 bø 2 /	'a natural fountain'	'ตานั้า'
/ 2i 5 teu 4 2i 5 tso 1 do 5 tso 1 3	tə 1/ 'to choke'	'เราลักน้ำ'
/ ?i 5 teu 4 ?a 1 lo 1 lo 1 jø 5 ?ə	1 / '(liquid) to flow slowly'	หลช้าๆ
/ 2i 5 tau 4 dố 3 biế 1 29 1/	'to flood'	'ນ້ຳກ່ວນ'
/ 2i 5 tʃhi1 tʃhi 1 khữ 3 khữ 3 20 1	/ 'to feel a necessity, to uri	nate' ปัจจาวะ
/ 7e 5 dø 5 ne 3 ?ə 1 /	'to jeer'	'เยาะเย้ย'
/ 7e 5 ne 3 ?ə 1 /	'to warn'	'เตือน'
/ 2a 1 2u 5 ja 1 la 1 la 1 /	'a tale,a fable'	'บิทาน,เรื่องเล่า'
/2a 1 ba 5/	'shadow'	'ເທາ'
/ 2a 1 bo 5/	'tree'	'ตันไม้' /
/ 2a 1 bo 5 du 3 ts <sup>h</sup> i 5/	'root of tree'	รากต้นไม้
/ 2a 1 bo 5 t <sup>h</sup> u 5 2 <del>9</del> 1/	'to chop'	'ตัดโค่นต้นไม้ด้วยขวาน'
/ 2a 1 dø 5 lø 5 k <sup>h</sup> ɔ̃ 1/	'rainbow'	'รุ้งกินน้ำ'/
/2a 1 hã 5/	'leopard cat'	'ແນວປ່າ'
/ 2a 1 hữ 5/	'mushroom'	'เท็ด'
/ 2a 1 hữ 2 /	'to exclaim when surprised'	'เฉียงอุฑนเมื่อแปลกใจ
/2a 1 ju 4 2a 3 pi 5/	'a relative'	'ญาติพี่น้อง'

/ 2a 1 k <sup>h</sup> w 5 p <sup>h</sup> e 3 za 5/	'footprint'	รอยเท้า
/2a 1 lo 1 lo 1 2e 5/	'slow'	'ðī'
/2a 1 lo 5/	'snake'	'g'
/ 2a 1 lo 5 2a 5 be 2 /	'the snake loufah gourd'	'ນວນຈູ,ຄັ່ວຈູ'
/2a 1 lo 5 do 4/	'snake's poisonous'	'พิษงู'
/ 2a 1 mi 5 sə 3 je 5 /	'roselle'	ำกระเจี๊ยบแดง
/2a 1 ma 5 p <sup>h</sup> o 2 /	'to turn right'	'เลี้ยวขวา'
/ 2a 1 mi 5 /	'cat'	'ແນວ'
/ 2a 1 mi 5 ma 2 /	'female cat'	'យាស្តាញគ,
/ 2a 1 mo 5 /	'insect'	'ແນດບ'
/ 2a 1 mo 5 bə 1 se 4 dza 1 ga 3	/ 'powder insecticide'	'ຍານ່າແນດ v
/ 2a 1 mo 5 the 1 20 1 /	'to chase'	'ໄດ່(ສັຫວ໌)'
/ 2a 1 mw 1 dza 3 pi 3 /	'fire fly'	'ทิ่งท้อย'
/ 2a 1 pi 5 /	'whistle'	'มิวปาก'
/ 2a 1 p <sup>h</sup> ja 5 lu 5 za 2 /	'a cockroach'	'ແນຄນສາປ'
/ 2a 1 su 5 ga 3 /	'who?"	ใคร?' >
/2a 1 tsha 5/	'millet,sorghum'	'ເນີ້ດເດື່ອຍ'
/2a 1 tpha 5 pho 2 /	'to turn left'	'เลี้ยวซ้าย'
/ 2a 1 d3i 5 /	'bird'	יתווי /
/ 2a 1 dzi 5 b5 3 /	'a nest'	'รังนา'
/ 2a 1 d3i 5 do 3 2a 1 /	'to perch'	'(תח) וחזבי
/ 2a 1 d3i 5 d5 5 di 3 di 3 2ə 1 /	'to flutter the wings'	'กระพื่อปีก'
/ ?a 1 dʒi 5 k <sup>h</sup> a 1 lo 5 /	'a mew, a cage'	'ከ30ኪስ'
/ 2a 1 d3i 5 pa 4 do 2 /	'mint'	′ใบဆะระแทน่′
/ 2a 3 2i 3 /	'termite'	'ปลวก'
/ 2a 3 2i 3 ma 2 /	'a tussock moth'	'ແນນເກ່າ'
/ 2a 3 2o 3 lo 5 ma 2 /	'spider'	,ແກດກໍ່ກ,
/ 2a 3 20 3 lo 5 ma 2 2a 3 kh 5 5 /	'spider thread'	, ໃຄແກດກໍກ,
/ la 3 lu 3 /	'mother's elder sister'	'ป้า(พี่ธาวของแม่)'
/ 2a 3 be 4 /	'female sexual organ'	′อวัยวะเพศทญิง′
/ 2a 3 bo 5 dzø 3 ma 2 /	'religious headman'	,ตู้แบมงพูอูบรรก(ผเล),
/ 2a 3 bu 5 /	'daughter'	'សួរាសាว'
/ 2a 3 bu 5 2a 3 bjã 3 /	'dumb woman'	'ทญิงใบ้'
/ 2a 3 bjã 3 /	'tadpole'	'ลูกอ๊อด'
/ 2a 3 da 2 /	'father'	<b>'พ่อ'</b>
/ 2a 3 da 2 2w 3 /	'uncle (both maternal and pater	rnal)" '๑ง'

/ 2a 3 da 2 mo 3 /	'grand father'	'ปู่,ตา'
/ 2a 3 d5 5 /	'wing'	<b>'ป</b> ็ก' /
/ 2a 3 du 5 /	'brother / sister's child'	′หลาน(ลูกของพี่–น้อง)′
/ 2a 3 dw 1 ma 4 /	'singular third person (the one	
	village" 'מינושאנדמש'	ากุรัสมุ 3 (อลุ๊มที่กุปกรุส),
/2a3ga5/	'where?"	<i>า</i> ที่ไทน? <sup>,</sup>
12a 3 go 2 /	'bedbug'	'ตัวหมัด'
/2a3gɔ̃1/	'thorn'	′ทนาม′
/ 2a 3 gw 5 /	'star'	'താത്നാ'
/ 2a 3 ha 3 hə 5 2ə 1 /	'to yawn'	'mm'
/ 2a 3 je 4 /	'leech'	יחיווי'
/ 2a 3 jo 3 ma 4 /	'plural second person' 'wssw	นามบุรุษที่ 2 (พทูพจน์)′
/ 2a 3 k <sup>h</sup> w 3 /	'dog'	'หมา'
/ 2a 3 k <sup>h</sup> w 3 ma 2 /	'female dog'	"ทมาตัวเมีย"
/ 2a 3 k <sup>h</sup> w 5 /	'leg'	<b>'8</b> 11'
/2a3 k <sup>h</sup> ux5 jo1 tco2/	'a lame man'	'ชายขาฟิการ'
/ $2a \ 3 \ k^h w \ 5 \ p^h \epsilon \ 3 \ za \ 3 \ /$	'the sole'	'chiฑ์'
/ 2a 3 k <sup>h</sup> w 5 p <sup>h</sup> o 3 tsw 4 /	'knees'	'ทั่วเข่า'
/ 2a 3 li 2 /	'son'	'ฌูกชาย'
/ 2a 3 li 2 2a 3 pi 5 /	'younger brother'	'น้องชาย'
/ 2a 3 la 4 /	'hand'	ขีอ'
/ 2a 3 ma 2 /	'mother'	'ແນ່'
/ 2a 3 ma 1 mo 3 /	'grand mother'	'ย่า,ยาย'
/ 2a 3 mã 5 2a 3 da 2 $k^h$ 5 dzo .	5 se 4 % 1/ 'old spinster'	'ဆาวแก่ที่ไม่ได้แต่งงาน'
/ 2a 3 mo 3 /	'wife's parents'	'พ่อตา–แม่ยาย <sub>'</sub>
/ 2a 3 mw 1 mw 1 2> 1 /	'to play'	'ເລ່ນ'
/ 2a 3 mw 2 /	'younger brother's wife, mother	er's younger
	sister'	น้องธะให้เก้า
/ 2a 3 mjã 1 /	'when?"	1710/27°
/ 2a 3 na 1 p <sup>h</sup> o 2 /	'right side'	'ด้านขวา'
/ 2a 3 nai 5 /	'to exclaim when hurt'	'เฉียงอุทานเมื่อเจ็บปวด'
/ 2a 3 no 3 /	'buffalo'	'ควาย'
/ 2a 3 no 3 2u 3 tshø 5 /	'buffalo horn'	'เขาควาย'
/ 2a 3 no 2 /	'periwinkle,shell'	'ทอย,ทอยขม'
/ 2a 3 na 3 na 3 2ə 1 /	'to help each other in harvest	ting' 'ลงแขกเกี่ยวข้าว'
/ 2a 3 p <sup>h</sup> i 3 na 3 tʃ <sup>h</sup> i 5 /	'a millipede'	′กั้งกือ′

10 2 - h - 2 1		
/ 2a 3 phø 3 /	'great grand parents'	'คุณทวด'
$/2a 3 p^h \emptyset 3 mi 3 je 5 /$	'God'	'เทพเจ้า'
/ 2a 3 tu 5 /	'artificial'	'ของปลอม'
/ 2a 3 xo 3 /	'father's sister'	'อาผู้หญิง'
/ 2a 3 γο 1 p <sup>h</sup> ε 5 to 4 /	'a brooch'	'เข็มกลัด'
/ 2a 3 y 2 2 /	'needle'	'ເຈິ້ນເຍີ້ນຜ້າ'
/ 2a 3 ye 3 2a 1 bo 5 /	'Sakura tree'	, ผูกฉบบ่วะ,
/ ?a 3 zo 5 /	'father's younger brother'	'อาผู้ชาย'
/ ?a 3 za 3 /	'son-in-law'	'សួក៧េខ'
/ 2a 3 za 4 /	'pig'	'ทมู'
/ 2a 3 dzo 3 /	'dumb man'	'ผู้ชายใบ้'
/ 2a 3 ts <sup>h</sup> u 2 /	'elder brother's wife'	′พี่ธะใภ้′
/ 2a 3 te <sup>h</sup> i 5 te <sup>h</sup> u 2 /	'quiet!"	'លីខប!'
/ 2a 3 ts <sup>h</sup> i 5 ts <sup>h</sup> u 1 ni 1 2e 5 2ə 1 /	' 'to whisper'	,บ2ะฐก,
/ ?a 3 ts <sup>h</sup> a 1 p <sup>h</sup> o 2 /	'left side'	'ด้านซ้าย'
/ 2a 3 th 3 1 ta 5 dze 3 ge 4 mo 3	3 29 1 / 'to be ambitious'	'พยายาม <b>,กะเยอกะยาน</b> '
/ 2a 3 th 3 3 /	'singular third person pronour	the one who
	stays outside our village)." 'w	รรพนามบุรษที่ 3 (อยู่ที่อัน)
/ 2a 3 ts <sup>h</sup> ø 5 /	'breast'	′นม,หน้าอก′
/ 2a 3 ts <sup>h</sup> ø 5 da 5 ts <sup>h</sup> ø 3 /	'breast milk'	'້ເກັບນ'
/ 2a 3 tshi 3 /	'dry pounded soybean mixed	with chilli and
	salt'	'ถั่วเน่า
/ 2a 3 tʃhɔ̃ 3 /	'the husband of one's elder s	ister' 'พี่เขย'
/2a 3 d3i 5 t <sup>h</sup> i 4 ma 4 /	'a covey of birds'	'ຝູ່ນ <del>ແ</del> ກ'
/ 2a 3 dze 3 /	'cicada'	'จ๊กจั่น'
/ 2a 3 d3o 3 /	'a plant worm'	'ทนอนที่กินพืชผัก'
/ 2a 3 dzo 5 2e 5 /	'How?"	·อย่างไร?·
/ 2a 3 dzu 3 te <sup>h</sup> i 5 mi 2 /	'dragonfly'	'ແມລงປອ'
/2a 5 be 1 tshe 5 /	'tamarind'	'มะทาม'
/ 2a 5 be 2 /	'bean'	'സ്റ്'
/ 2a 5 bw 1 kh 3 3 da 1 h 3 3 /	'a bed-sheet'	'ผ้าปูที่นอน'
/ 2a 5 bw 2 /	'blanket'	'ผ้าทุ่ม'
/ 2a 5 bə 2 /		. •
	'the fruit of the snuffbox bea	n' 'ຄູກສະບາ'
/ 2a 5 bjø 4 /	'the fruit of the snuffbox bea 'bamboo shoot'	n' 'ลูกฆะบา' 'หน่อไม้'
/ 2a 5 bjø 4 / / 2a 5 de 3 de 3 la 5 2a 1 /		· ·
	'bamboo shoot'	<sup>'</sup> ทน่อไม้ <sup>'</sup>

10-54-01	la a sur!	. <del> </del>
/ 2a 5 du 2 /	'corn'	′ข้าวโพด′ - ~ ~ โ
/ 2a 5 du 2 me 3 mã 3 /	'corn hair'	'ซังข้าวโพต'
/ 2a 5 ho 2 /	'ant'	<b>ุ</b> ภด,
/ 2a 5 je 2 /	'flower'	'ดอกไม้'
/ 2a 5 je 2 he 5 2\text{3} 1 /	'to have menstruation'	′มีประจำเดือน′ 
/ 2a 5 ja 3 /	'time / chance'	'เวลา/โอกาซ'
/ 2a 5 ja 3 ja 2 2ə 1 /	'leisure'	รมีเวลาว่าง
/ 2a 5 ja 3 ne 5 ni 5 2ə 1 /	'to be in time'	ำกับเวลา
$/2a5$ ja 3 ne 5 $t_{\rm p}^{\rm h}$ a 3 2= 1 $/$	'to be on time, punctual'	<b>,</b> ພ29เวเซป,
/2a5jø3/	'seed'	'เมล็ดพืช'
/ 2a 5 k <sup>h</sup> a 2 /	'crab'	.Ą.
1 % 5 k % 3 1	'a stem of the tree'	'ลำต้นไม้ไผ่'
/ 2a 5 la 3 d3a 3 ts <sup>h</sup> i 5 /	'lion'	'ฌึงโต'
12a 5 lo 21	'to exclaim when frightened'	'เซียงอุพานบีอตกใจ'
/ 2a 5 lu 1 /	'butterfly'	'ជីត្លើច'
12a 5 mjo 41	'monkey'	'ঠিও'
/ 2a 5 mjã 1 /	'How many?"	'มากเท่าไร? <sub>'</sub>
/ ?a 5 ne 3 /	'bamboo strap'	'ตอกไม้ไผ่'
/ 2a 5 ne 3 ne 3 20 1 /	'to make the bamboo strap'	'จักตอก'
/ la 5 ne 3 dz5 3 la 1 /	'to tie (a the bamboo strap)"	<sup>•</sup> มัดด้วยตอกไม้ไผ่
/ 2a 5 nw 1 ne 5 /	'red bean'	'ถั่วแดง'
/ 2a 5 nw 2 /	'seed'	'យស៊ីត'
/ 2a 5 pa 4 /	'leaf'	<sup>.</sup> ใบไม้
/ 2a 5 pa 4 p <sup>h</sup> a 5 2ə 1 /	'to fall (of leaves)"	<i>่</i> ใบไม้ร่วง′
/ 2a 5 p <sup>h</sup> ø 3 /	'price'	'ኔገው1'
/ 2a 5 p <sup>h</sup> ja 3 /	'branch of the tree'	ก่งไม้
/ 2a 5 pho 1 kha 3 /	'Buddleja asiatica Lour' (Dok	Ra-cha-wa-dee)
-		,ขอบวมฉมายู,
/ 2a 5 si 3 /	'fruit'	'ผลไม้:/
/ 2a 5 si 3 2a 1 bo 5 ja 1 k <sup>h</sup> ű 5 /	'orchard'	ากล้วยไม้
/ na 5 si 3 tso 2 na 1 /	'to inoculate'	'ปลูกฝี,ฉีดวัคซีน'
/ 2a 5 sa 1 yo 1 /	'one type of beetle (in cow's	dung)"
•	'แมลงปีกแข็งชนิดหนึ่งชอบหากินในมูลวัว'	-
/ ?a 5 xo 4 /	'year,age'	'ปี,อายุ'
/ 2a 5 tsə 3 /	'tribe'	"เล่า,ภาษา"
/ 2a 5 tra 2 /	'rope'	'ថើ១រា'
1		- <del>-</del> - ·

/ 20 1 20 1 /	'to sneak away'	′ពីប′
/ 25 1 2a 4 /	'crow'	<b>'</b> עחתי'
/203 bu 1 ma 2/	'a horned owl'	'ແກເຄ້າເພວ'
/ 25 3 dø 5 dø 5 2a 1 /	'to be tired'	'เทนี่อย'
/ 25 3 mj $\tilde{a}$ 5 k $^{h}$ 5 1 la 5 m $\epsilon$ 1 /	'long time ago'	'นานมาแล้ว'
/20 3 mja 1 /	'many'	<b>'ນ</b> ກກ'
/ 20 3 na 3 na 3 20 1 /	'to stop'	′หยุด′
/203 pø 5 /	'food,vegetables'	′อาทาร,ผัก′
/203 pa 1203 p <sup>h</sup> ui 5/	'mustard plant (green)"	'ผักกาดเขียว'
/203 pa 1203 p <sup>h</sup> ju 5/	'nappa cabbage'	'ผักกาดขาว'
/ 20 3 pa 1 20 3 k <sup>h</sup> a 3 /	'mustard plant (bitter)"	'ผักกาดขม'
/ 25 3 pa 1 25 3 si 1 2a 5 je 2 /	'cauliflower'	'ดอกกะ <b>ห</b> ณ่ำ'
/ 20 3 pa 1 20 3 si 3 /	'cabbage'	′กะหล่ำปลี′
/ 20 3 pa 1 20 3 so 3 /	'lettuce'	'ผักกาดทอม'
/ 20 3 si 3 /	'kidney'	'lor'
/ 20 3 tco 5 tco 5 20 1 /	'to feel sorry (about somethin	g lost),to deplore,
	to regret'	′ູ້ວໍ່ສັກເສັຍດາຍ′
/203 te <sup>h</sup> a3 ga3201/	'cute'	<b>ู้</b> น่ารัก'
/ 25 3 20 1 /	'to sell'	′ขาย′
/ 25 5 79 1 /	'to have,to exist'	'រ្ស <b>ុ</b> ០ខ្ញុំ'
/ 20 1 do 3 29 1 /	'to start a fire'	'ก่อไฟ <b>,</b> จุดไฟ'
/20 1 jø 3 /	'straw'	·ฟางข้าว·
/ 20 1 jø 3 kə 2 /	'a stack of straw'	'กองฟาง'
/ 20 3 la 5 29 1 /	'to comeback'	'กลับมา'
/ ?u 3 zi 5 ho 1 ?ə 1 /	'to bare one's teeth,to grin'	′ยิงฟัน′
/ ?u 3 de 3 /	'bald'	'หัวล้าน'
/ ?u 3 du 3 /	'head'	<b>์</b> ทั่ว'
/ 2u 3 du 3 bu 1 2ə 1 /	'to wash the hair'	<i>,</i> ฆ2ะตภ,
/ ?u 3 du 3 ka 1 dzu 5 /	'the castor oil plant'	'ต้นละหุ่ง'
/ 2u 3 du 3 mo 3 2ə 1 /	'to be dizzy'	′งง,เวียนทั่ว′
/ 2u 3 du 3 na 5 2ə 1 /	'to have a headache'	'ปวดทั่ว'
/ 2u 3 du 3 t <sup>h</sup> 5 3 2ə 1 /	'to tilt,to nod'	'ไทว้,กับทัว <sub>'</sub>
/ 2u 3 du 3 ts <sup>h</sup> i 3 dze 3 /	'shampoo'	,แผ <b>มพื</b> ช2ะตก,
/ Iu 3 du 3 ts <sup>h</sup> i 3 dze 3 bø 5 lø :	5 / 'shampoo's bubble'	.พองแผมมี.
/ 2u 3 dũ 5 /	'cloud'	,ຕາກ,
/ 2u 3 gũ 3 /	'pillow'	'หมอน'

/ ?u 3 je 5 /	'rain'	'dπ' /
/ 2u 3 je 5 je 5 ja 3 /	'rainy season'	,ឋលិក្កក,
/ Yu 3 jø 5 ŋə 5 ʔə 1 /	'to drowse'	·ข่วง <b>,</b> โบกเงก'
/ 2u 3 k <sup>h</sup> a 3 p <sup>h</sup> je 3 /	'to fart'	'ଖର'
/ 2u 3 ma 1 ma 1 2ə 1 /	'to dream'	'ជ័្យ.
/ 2u 3 ma 1 na 5 2ə 1 /	'to have a stomachache'	'ปวดท้อง'
/ 2u 3 ma 2 /	'belly'	'ช่องท้อง'
/ ?u 3 mo 2 /	'the cellar'	'ใต้กุน'
/ 2 cq 2 m2 /	'scurf,dandruff	'รังแค'
/ ?u 3 xo 2 /	'hat'	'ทบวก'
/ ?u 3 dző 3 /	'turban' 'ผ้าใ	พกศรีษะฆาหรับผู้ชาย
/ ?u 3 tçi 4 /	'night time'	′กลางคืน′
/ 2u 3 tri 4 se 1 gõ 5 /	'mid night time'	'เที่ยงดีน'
/ 7u 3 ts <sup>h</sup> a 5 /	'sunny'	'แฆงแดด'
/ 2 2 1 2 1 4 1 1 2 1 1 1 1 2 1 1 1 1 1 1	'dusk'	,໙໑ກາຄູກາໝອກບຸນ,
/ ?u 3 tc <sup>h</sup> ø 5 /	'horn'	'ເขา(ໝັຫວ໌)'
/ 2u 3 tsho 3 /	'morning time'	'ตอนเช้า'
/ $2u \ 3 \ t^h$ o $3 \ jo \ 1 \ na \ 4 \ /$	'early morning'	'ตอนเช้าตรู่
/ ?u 3 tʃ <sup>h</sup> u 1 /	'to exclaim when tired' 'เตียงเ	จุทานเมื่อรู้สึกเหนื่อย"
/ 2u 3 dzi 5 /	'the lalang,cogon'	'หญ้าคา'
/ 7u 3 dzi 5 t <sup>h</sup> e 3 /	'a thatch of lalang'	หญ้าคา 1 ไพ
/ 2u 3 d3i 5 t <sup>h</sup> e 3 2ə 1 /	'to make a thatch of lalang'	'ไพทญ้าดา'
/ 2u 4 pe 3 pe 3 2 1/	'to vomit'	′อาเจียน′
/ 2ã 1 gw 5 ho 1 2ə 1 /	'to stare out of fear'	'เผชิญกับความกลัว'
/ 2ũ 3 /	'sky'	′ก้องฟ้า′
/ Nũ 3 jo 1 số 5 /	'cloudy sky'	<b>'ก้องฟ้าก็มีเมฆมาก'</b>
/ 2ã 3 gw 1 gw 1 ja 4 /	'to have a drought'	'แล้ง'
/ 2ã 3 gw 1 gw 1 ja 3 /	'dry season'	'กุดูแล้ง'
/ Nã 3 mjo 3 mjo 3 % 1 /	'lightening'	′ฟ้าแลบ′
/ Nữ 3 dạe 3 dạe 3 Na 1 /	'to thunder'	'ฟ้าร้อง'
/ 2ã 5 bja 3 la 5 2ə 1 /	'the extended hood of a cobra	a' 'แม่เบี้ยของงูเท่า'
/ 2ũ 5 lə 5 2ə 1 /	'to raise, to lift up one's face'	'เงยหน้า'
/ 2ũ 5 mjo 3/	'things'	'ฌิ่งของ'
/ $2\tilde{u}$ 5 mjo 3 % 3 mw 3 mw 3 d3	ε 3 / 'toys'	'ของเล่น'
/ 2ữ 5 mjo 3 2ố 3 29 1 /	'grocery'	'รักนขายของช้า'
/ 2ũ 5 mjo 3 25 3 du 3 /	'shop'	'ร้านค้า'

125 5 no 3 hi 3 no 3 no 1 /	'to companyate'	/mmau/
/ Nã 5 no 3 bi 3 ne 3 70 1 / / Nã 5 dza 3 Ni 5 No 1 /	'to compensate'	'ตอบแทน'
·	'to get married' (female)	'(ผู้หญิง.)แต่งงาน'
/ 2ũ 5 xo 4 2ə 1 /	'to stop'	'หยุด'
/ 2 cs 1 mg /	'the monitor lizard'	'ตัวแลน,ตะกวด'
/ Yuu 1 tauu 1 ta 4 /	'a few,a little'	'นิดหน่อย,เล็กน้อย'
/ 1 cf 2 cb 4 do 5 29 1/	'to sip, to take a little bit at	
/ ?w 5 2 1 /	'to laugh'	'ทัวเราะ'
/ ?w 5 tw 1 tw 1 ?ə 1 /	'to hiccup'	'ฉะอีก'
/ 7ø 1 7a 1 /	'to come'	'm'
/ 2ø 1 do 1 2ə 1 /	'to come out'	′ออกมา′
/2ø1 k <sup>h</sup> a1?ə1/	'to come down'	'ฌงมา'
1 2ø 3 1	'four'	'ਜ਼ੋ'
/ 2ø 3 15 3 /	'soup pot'	'หม้อแกง'
/ 2ø 3 ma 2 /	'grand child'	'ทลาน (ลูกของลูก )'
/ 2ø 3 ne 5 /	'a boiled pot'	'หม้อต้ม'
/ 7ø 3 sø 2 tsə 5 tsə 2 /	'just now'	ंग्रेनलीं:
/ Ø 3 ts <sup>h</sup> e 5 /	'forty'	'ស៊ីស៊ីប'
/ 100 3 ts he 5 ya 3 /	'forty-five'	'ฌี่ฌิบท้า'
/ 2ø 3 tshe 5 ti 4/	'forty-one'	'ជីជិបចើด'
	/ b /	
/bi 1 hi 5 ju 3 % 1 /	'to lie on one side'	'นอนตะแคง'
/ bi 2 % 1 /	'to give'	ให้
/ bi 3 20 1 /	'to throw'	'ขว้าง,ปา'
/ bi 5 20 1 /	'to share'	'แบ่งให้'
/ bi 5 jo 4 /	'to be inclined, tilted'	'เซียง,กระดก'
/ be 1 79 1 /	'to shove away with the foo	t,to win'
		'ถีบ,ชนะ'
/ be 3 le 5 % 1 /	'to win'	'vue'
/ be 3 la 3 2 1 /	'to smell'	'ดม'
/ be 3 la 3 /	'bad smell'	′กลิ่นเหม็น′
/ bε 5 ba 2 /	'sponge gourd'	'ນວນ'
/ be 5 je 2 /	'a rib'	'กระดูกซีโครง'
/ba 1 2 1 /	'to grill,to toast'	'ปั่ง, ย่าง'
/ba 1 la 2 /	'moon'	′ดวงจันทร์′

/ ba 1 la 2 la 1 da 2 /	'the waxing moon'	'เดือนทงาย'
/ ba 1 la 2 la 1 dʒi 5 /	'the wanning moon'	'เดือนบัด'
/ba 1 la 2 mi 5 nɔ̃ 2 nɔ̃ 2 si 3 /	'last month'	'เดือนที่แล้ว'
/ ba 3 20 1 /	'to carry'	<b>'ແ</b> ህበ'
/ ba 3 ba 2 /	'cheek'	'แก้บ'
/ ba $3$ ba $2$ ba $3$ to $2$ $/$	'a jaw'	'เทงือก'
' / ba 3 ba 2 jo 1 ts <sup>h</sup> u 5 /	'chubby cheek'	'แก้มยุ้ย'
/ ba 3 ba 2 $k^h$ o 4 2i 5 2ə 1 /	'a dimple'	'ลักยิ้ม'
/ ba 3 ga 2 /	'the hillside'	'ไหล่เขา'
/ ba 3 p <sup>h</sup> u 2 /	'shoulder'	'ไทล่,บ่า'
/ba4sə52ə1/	'ticket'	'ຫັ້າ'
/ba 1 za 3 /	'maskmelon'	′แตงไทย′
/ ba 3 tj <sup>h</sup> e 1 tj <sup>h</sup> e 1 15 5 /	'beard'	ำหนวด,เครา'
/ ba 3 dza 3 /	'powder'	'แบ้ง'
/ ba 4 p <sup>h</sup> u 5 /	'to explode,burst'	'วะเบิด'
/ bo 1 % 1 /	'to blow'	'พัด,เป้า'
/ bo 1 2u 5 /	'intestines'	'Yai'
/bo 1 2u 5 bo 1 ma 2 /	'internal body organs'	'เครื่องใน'
/ bo 1 7u 5 ma 2 /	'big intestine'	' <b>ลำไ</b> ธ้ใหญ่'
/ bo 1 2u 5 za 3 /	'small intestine'	'ลำไซ้เล็ก'
/ bo 1 di 5 % 1 /	'to flutter'	'กระพื่อปีก'
/ bo 1 du 2 /	'bush,a grove of trees'	'ປ່າລະເມາະເລົ້ກໆ'
/ to 1 dw 5 /	'football,a toy balloon'	'ฟุตบอล'
/ bo 1 ma 2 /	'stomach'	'กระเพาะอาหาร,ท้อง'
/ bo 1 sə 2 /	'fan'	' <b>พ</b> ัด'
/ bo 1 cd /	'skin'	′ผิวหนัง′
/ to 1 asb 1 cd /	'to be blown away'	'ถูกพัดปลิวไป'
/ bo 3 gə 2 /	'a kerosine can'	'ถังน้ำมัน'
/ bo 3 lo 2 /	'flute'	<b>'រា</b> ស់្ខ្លា
/ bɔ 3 tʰū̃ 2 /	'a stem of bamboo use for	dancing'
	'กระบอกไม้ไผ่ใช้เคาะเป็นจังหวะในการเต้นรำ	ı'
/ bo 3 dza 3 % 1 /	'to have a meeting'	,ฦ2=฿ก,
/ bɔ̃ 3 ⁄æ 1 /	'false'	'ជិត'
/ bo 1 20 1 /	'to write'	'เขียน'
/ bo 1 na 3 /	'water bucket'	'ถังตักน้ำ'
/ bu 3 2i 5 2ə 1 /	'to be putrescent'	′บูด,เน่า′

/bu 3 sa 1 t <sup>h</sup> e 3 /	'the excretion of a fly'	ขึ้นมดงวัน
/bu 3 sa 1 t $^{\rm h}$ e 1 jo 3 $^{\rm 29}$ 1 /	'to brush away'	′ปิ๊ด′
/ bu 3 sa 2 /	'a fly'	'ແນດຈວັນ'
/ bu 3 dʒu 1 k <sup>h</sup> a 1 lo 5 /	'a bamboo basket put on b	amboo weaving
	which hang over the firepla	ice'
	'ตะกร้าไม้ไผ่ที่แขวนไว้เหนือเตาไฟ'	
/ bu 3 dzø 2 /	'a chrysalis'	'ด้วง'
/bw 5 k <sup>h</sup> a 2 /	'umbrella'	, <del>2</del> ຸກ,
/ bə 1 lə 2 /	'male sexual organ'	'อวัยวะเพศชาย'
/ bø 1 lø 2 /	'a gong'	'ฆ้อง'
/ bø 1 dø 5 /	'intestinal worm'	'พยาชิ'
/ bø 2 /	'a hornet hole'	,ริภองณุวตุอ,
/ bø 3 % 1 /	'to nudge' ( when a horse or	pig uses the nose
	to nudge)	'ดันด้วยจมูก'
/ bø 3 ha 3 /	'intestinal worm'	'พยาชิ'
/ bø 3 ku 2 /	'a turtle'	'เช่า'
/ bø 3 % 1 mo 5 /	'a weevil'	"แบงเว่ท"
/ bø 3 ma 2 /	'taro'	'ដើចរា'
/ bø 3 mo 3 /	'the Akha man who contacts	s a spirit' 'ทมอผี'
/ bø 5 ha 3 /	'bat'	'ค้างคาว'
/ bø 3 thɔ̃ 3 thɔ̃ 3 æ 1 /	'a chrysalis,a worm'	'ทนอน'
/ bø 3 xa 3 /	'beetle'	'แมลงทับ,ด้วงปีกแข็ง,
/ bø 3 kø 5 dza 3 % 1 /	'a bad tooth'	,ผูกต่,
/ bø 3 tʃʰū̃ 3 /	'Shan people'	'ชาวไทยใหญ่'
/ bø 5 ba 2 /	'the luffa or dish - cloth gou	ırd'
	'ไฒ้บวบที่ใช้ถูตัวหรือล้างจาน'	
	/ bj /	
/ bje 1 29 1 /	'to execrete'	<b>'</b> ゎ゚ゎゎヿヹ <b>ะ</b> '
/bja 1 2e 1 /	'to fold'	'พับ,ห่อ'
/ bja 1 bja 3 2w 5 /	'honey'	'น้ำผึ้ง'
/ bja 3 /	'bee'	'นึ่ง'
		ਛਪ ਹੈ

'a sting of a bee'

/bja32i3/

'เหล็กในของผึ้ง'

/ bja 3 25 3 15 3 ma 2 /	'a hornet'	'ຫັວຫ່ວ'
/ bja 3 de 3 2 1 /	'to sting' (of bee)	'เหล็กไนของผึ้ง'
/ 6 cx 8 aid /	'a hornet which has red, blac 'ตัวต่อที่มีฉีแดง เหลืองและดำ'	ck and yellow colors'
/ bja 3 k <sup>h</sup> u 3 t¢ <sup>h</sup> u 2 /	'a bee hive'	'รังผึ้ง
/ bja 3 tp <sup>h</sup> e 3 /	'bee wax'	ซีนึง'
/ bja 3 tru 4 tru 4 20 1 /	'to fondle'	'กอดวัด'
/ bja 5 tru 4 t <sup>h</sup> a 3 le 1 /	'to embrace'	'กอด'
/bjã 1 2 1 /	'to be full" (of water or thing	gs) 'ອົ່ນ.ເຫຼົ້ນ'
/ bjữ 5 % 1 /	'to pile up'	'ทองขึ้น'

# 1 d 1

/di 1 2 1 /	'to beat'	'ตี(ข้าว,เหล็ก)'
/ di 3 p <sup>h</sup> u 3 /	'hammer'	"ฆ้อน"
/ di 5 lu 3 bu 5 /	'yam bean'	'ນັບແກວ'
/de 5 lo 2 /	'a fish trap made of bamboo	ว่ 'ไซดักปลา'
/dɛ 1 7ə 1 /	'to thrash'	'นวดข้าว'
/de 1 ka 2 /	'grassland, pasture'	′ทุ่งหญ้า′
/dε 1 le 5 % /	'to knock at'	'เคา <b>ะ</b> '
/dε 1 ma 2 /	'wet rice field'	'บาท้าว'
/dε 1 ma 2 2ữ 5 2∋ 1 /	'to work paddy'	<i>ำ</i> กนา
/ dε 1 ma 2 φ <sup>h</sup> ε 5 /	'wet rice'	'ข้าวนา'
/de 1 na 3 /	'watermelon'	,แพง[ก,
/ dε 1 x5 3 /	'a courtyard'	'ฌาแฆาวกอด'
/de 3 % 1/	'to use abusive language'	′on′
/de 3 da 2 2 1/	'to push up'	'ดันขึ้น'
/de 3 le 1 20 1 /	'to be born' (human,tree)	'កើត'
/de 3 la 5 2 1 /	'to sprout'	'งอก'
/de 3 lu 1 ne 3 % 1/	'to feed'	ให้อาหาร
/de3 te1201/	'to push'	'ผลัก'
/dε4?ə1/	'to press down'	'ክଉଷሪ'
/da 1 29 1 /	'to owe'	′เป็นหนึ่′

/de 1 le 5 /	'a device-shaped like Solomo	
	strips of bamboo, serving as	a sign that a thing is
•	for conservation'	′ตะแทดว′
/da 1 tshu 5 /	'a rod,a stick'	′กิ่งไม้,แขนงไม้′
/da 2 le 5 2 1 /	'to climb'	'ปีน'
/da32=1/	'to play cards'	'เล่นไพ่'
/da 3 ga 2 /	'first piece of a horse trap'	'เครื่องอานม้าชิ้นที่หนึ่ง'
/da 3 no 3 /	'policeman'	'ตำรวจ'
/da 5 bo 3 2a 5 ta 4 /	'a photograph'	<b>,</b> รัฤบมพ,
/da 5 bo 3 de 1 20 1 /	'to take a photo'	, เมลร์ก,
/da 5 bo 3 de 1 ta 2 /	'a camera'	'กล้องถ่ายรูป'
$/ da 5 k^h o 4 mo 3 ts^h o 5 /$	'casava' 🗸	'มันเข้าปะหลัง'
/da 5 ne 3 2 1 /	'to pawn'	'จำนำ'
/da 5 pja 2 /	'fern'	'ตับเพีร์น'
/da 5 ta 4/	'stake'	'เธาหลัก'
/ da 5 tst 4 /	'spine'	'กระดูกฉันหลัง,หลัง'
/ da 5 tst 4 na 5 ?ə 1 /	'to have a backache'	'ปวดหลัง'
/ dã 2 /	'one type of instrument' 'un	เรื่องมือชนิดหนึ่งของช่างไม้ <sup>*</sup>
/ f ef f mp f cp/	'to immerse'	'จุ่มน้ำ'
/dɔ37ə1/	'to cling'	'เกาะติด'
/ do 3 dő 2 2ő 3 du 3 /	'a brothel,a bawdy house'	'ช่องโฆเภณี'
/ do 3 dő 3 /	'bottom'	'กัน, ส่วนท้าย'
/do 3 ga 3 ga 3 20 1 /	'to crawl'	'คถาน'
/ do 3 mi 3 /	'tail'	'หาง'
/ do 3 p <sup>h</sup> e 2 /	'near,close to'	'ใกล้,ติดกับ'
$/ do 3 p^h \epsilon 3 /$	'the base of tree'	'โคนต้นไม้'
/do 3 tche 3 /	'excrement'	'อุจจาระ'
/do 3 the 3 the 3 no 1 /	_	
/ do 3 $\psi^{h}$ e 3 $\psi^{h}$ e 3 $k^{h}$ ũ 3 $k^{h}$ ũ 3 2	a 11 to feel a necessity to ev	acuate the bowels'
_		.กุวของมาระทาบน.
/do 3 tha 5/	'a song'	'IWOU'
/do 3 tha 5 tha 5 20 1/	'to sing'	'ร้องเพลง'
/ do 3 tfhi 3 tfhi 3 ?e 1 /	'to urinate'	'ปัฒฑาวะ'
/ do 3 d3ũ 2 /	'ladder'	'บันได'

/ do 3 d3ũ 3 /	'bridge'	<i>'</i> ธะพาน'	
/do 3 dzu 5 dzu 5 20 1 /	'to sit on one's heels'	'นั่งยองๆ'	
/do 5 2 1 /	'to drink'	'ดีม'	
/do 5 25 5 20 1 /	'to insert'	'ੀ <sub>ਲ</sub> ਂ'	
/ do 5 ho 1 ? 1 /	'to sip'	'ชิ่มจิบๆ'	
/do 5 na 3 20 1 /	'to choke'	'ฆ่าลักพูดไม่ออก'	
/dɔ̃5 ta 1 2a 5 k <sup>h</sup> a 2 /	'scorpion'	′แมงป่อง′	
/dɔ̃5 ta 1 τμ <sup>h</sup> ε 5 /	'dry rice'	'ข้าวไร่ <sup>,</sup>	
/do 4/	'prison'	<b>'</b> ሶህ,	
/du 3 % 1 /	'to dig'	'ขุด'	
/ du 3 k <sup>h</sup> a 3 /	'saliva' /	'น้ำลาย'	
/ du 3 p <sup>h</sup> ɔ̃ 3 /	'to bury'	<b>'</b> ద్దం'	
/ du 3 xo 3 /	'hole'	<b>.</b> 2.	
/du 3 xo 4 /	'depression in the ground'	'หลุมที่พื้นดิน'	
/ du 3 ts <sup>h</sup> i 5 /	'a section of bamboo stem i	nto the ground'	
	'ช่วนของต้นไผ่ที่อยู่ในดิน'		
/du 4 2 1 /	'to wear a bracelet'	'ฉามใส่สร้อยข้อมือ,กำไล'	
/dű 1 20 1 /	'to wear'	'ฌามใธ่(เฉื้อผ้า)'	
/dű 3 /	'classifier for a book'	ล่ม(ลักษณะนามของหนังฉือ)	
/ dữ 3 7i 5 7ə 1·/	'to be blunt'	′หื่อ,ไม่เฉียบแหลม′	
/dű 5 ma 2 /	'younger sister'	'น้องซาว'	
/ dw 1 70 1 /	'to soak'	'ແຮ່'	
/də 1 ha 3 /	'axe'	<b>'v</b> วาน'	
<i>lg l</i>			
/galk <sup>h</sup> al?əl/	'to fall'	'หล่น,ตก'	
/ga 1 mɔ̃ 5 /	'far'	'ไกล'	
/ ga 1 pho 5 pho 5 20 1 /	'to overtake'	'ไล่ตามทัน'	
/ga 3 % 1 /	'to love'	'Sn'	
/ ga 3 la 5 /	'to hear'	ำได้ยี <sub>′</sub>	
/ ga 3 lo 3 /	'valley'	'ทุบเขา'	
/ ga 3 me 1 /	'enough'	กุบเจ <i>า</i> "เพียงพอ"	
/ ga 3 mɔ̃ 5 mɔ̃ 5 2 1 /	'to hire,to employ'	ักับ <sup>*</sup>	
1 90 0 mo 0 mo 0 18 1 (	to inic,to employ	VIU	

/ga 5 2  5 2  1 /	'to work'	′ท้างาน′
/ ga 5 ko 2 /	'small path in the forest'	ำทางเดินเด็กๆในป่า
/ga 5 ma 1 /	'path'	mu'
/ga 5 ne 1 ne 1 20 1 /	'to dance'	'เต้นร้า'
/ go 1 bi 2 p <sup>h</sup> o 2 /	'the south'	ฑิศใต้
/ go 3 gu 5 /	'goose'	'เป็ด'
/ go 3 p <sup>h</sup> u 2 /	'bamboo mat'	'เลื่อไม้ไผ่'
/ go 5 lu 3 /	'bamboo pipe for man'	'กล้องยาธูบของผู้ชาย'
/ go 5 tst 4 /	'bamboo pipe for woman'	'กล้องยาซูบของผู้หญิง'
/gɔ̃ 1 la 5 ʔə 1 /	'to have a cramp'	,เฏกพะษฏว,
/ gɔ̃ 3 /	'a spear,a sword'	′ดาบ′
/ gɔ̃ 5 da 3 /	'ring finger'	'นิ้วนาง'
/ gɔ̃ 5 no 2 /	'the core'	'แก่น'
/ gɔ̃ 5 τε <sup>h</sup> ε 2 /	'middle'	'ตรงกลาง'
/ go 3 ho 1 20 1 /	'to inspect'	,uzpauzi,
/gu 1 2> 1 /	'to fear'	′กลัว′
/gu 4 2= 1 /	'to sew'	'เย็บผ้า'
/gu 5 % 1 /	'to shout'	'ตะโกน'
/ gw 1 ?ə 1 /	'to count'	'นับ'
/gw 1 ma 2 /	'the ceiling'	'เพดาน'
/ gw 3 tso 4 /	'a pot'	'กาตับน้ำ'
/ gw 3 ts <sup>h</sup> w 5 /	'brass'	'ทองเหลือง'
/ gw 5 2i 5 2ə 1 /	'to melt'	'ละลาย'
/ gw 5 la 4 /	'shelf'	′ชั้นวางของ′
/ gə 4 mɔ 2 /	'to comply'	'ยอมตาม,ไม่ขัดขึ้น'
	/ h /	
/ he 5 ge 1 2 1 /	'to take'	'เอาไป'
/ ho 1 % 1 /	'to look at'	'ກວາຍໍ,
/ ho 1 dø 5 % 1 /	'to look down'	'ឲ្យពួក'
/ ho 1 p <sup>h</sup> jo 5 ye 5 2a 1 /	'to look back'	'หันกลับไปมอง'
/ ho 1 dzo 5 ye 5 ?e 1 /	'to look over'	'มองข้ามออกไป'
/ ho 1 to 1 le 3 20 1 /	'to stare'	′จ้องดู′

1 ho 3 l	'cooked rice'	'ข้าวธุก'
/ ho 3 ba 2 /	'small bamboo basket for keeping sewing tools' 'ตะกร้าไม้ไผ่เล็กๆสำหรับเก็บอุปกรณ์เย็บปักผ้า'	
/ ho 3 bɔ̃ 3 /	'a steamed wooden pot'	'nมัอtlo'
/ ho 3 bu 2 /	'daiken radish'	<i>ำ</i> กัวไซเท้า
/ ho 3 bə 3 ?ə 1 /	'to use one's fingers to eat a	rice' ให้มือเป็นข้าว
/ E cq E ch /	'a pounded sticky rice, always	•
	time'	'ข้าวปุ๊ก'
/ ho 3 no 3 na 2 /	'black sticky rice'	'ข้าวเทนียวดำ'
/ ho 3 no 3 t <sup>h</sup> e 5 si 3 /	'a mortar for pounding sticky	
/ bo 3 mg 5 /	'vegetables,food'	'ผัก/อาหาร'
/ ho 3 yo 2 /	'bamboo basket for rice'	'ตะกร้าไม้ไผ่ใช้ใส่ข้าวสุก'
/ ho 3 dze 2 /	'table,a tray on a pedestal'	'โตกข้าว/โต๊ะไม้'
/ ho 5 ne 2 /	'with,and'	'ກັບ,ແລະ'
/ ho 1 bi 5 /	'aeroplane'	'เครื่องบิน'
/ ho 1 bi 5 da 5 zə 2 /	'helicopter'	'เชลิคอปเตอร์'
/ ho 1 ja 5 /	'hospital'	'โรงพยาบาล'
/ ho 2 t <sup>h</sup> i 4 xo 4 /	'a rat year'	′ปีทนู′
/ hu 3 tri 4 /	'the night before last'	'เมื่อดีนวาน'
/ hữ 3 /	'classifier for a thing'	'อัน(ลักษณนามของสิ่งของ)'
/ hu 4 nɔ̃ 1 /	'day before yesterday'	'เมื่อวานซีน'
/ hu 5 lo 1 2a 5 si 3 /	'hail'	'ลูกเห็บ'
/ hu 5 si 3 /	'cowrie'	'ทอย'
/ hw 3 la 5 /	'to grow'	'ปลูก'
/ hə 1 də 3 /	'these'	'ฉิ่งเหล่านี้'
/ hə 1 ga 5 /	'here'	หีน์
/ hə 1 na 5 ta 4 /	'next time'	'ครั้งต่อไป'
/ hə 1 si 3 /	'this month'	'เดือนนี้'
/ hə 1 tra 5 /	'machine boat'	,เรือถูกผู้,
/ hə 1 dʒɛ 3 /	'like this'	'อย่างนี้'
	/ 1 /	

## 

/ ji 5 ba 3 sa 4 ใจ 1 / 'to distill the liquor' 'ตัมเหล้า'

/ je 3 hu 1 p <sup>h</sup> o 2 /	'the first time'	'ครั้งแรก'
/ je 3 ka 1 ts <sup>h</sup> o 5 ha 3 /	'merchant'	'พ่อค้า'
/ je 3 ma 2 /	'a saw'	'เลื่อย'
/ je 3 nɔ̃ 1 pʰɔ 5 dʒi 5 kʰo 3 2ə	1 / 'to go backwards'	'ทันหลังกลับ'
/ je 3 nɔ̃ 3 /	'slow'	'ðn'
/ je 3 za 3 /	'animals'	'ফ্রঁলর্গ'
/ je 3 $\mathfrak{p}^h$ i 5 $k^h$ a 3 d $\mathfrak{z}$ ø 5 ma 2 /	'a vulture'	'แร้ง'
/ je 1 gɔ̃ 5 ja 3 /	'rainy season'	,ឋេលិៗπ,
/je 3 2 1 /	'to be drunk'	'un'
/ je 3 ხე 3 හე 5 /	'to destroy'	'mลาย'
/ je 3 bố 3 dzố 5 ts <sup>h</sup> o 5 ha 3 /	'greedy,selfish'	<i>'ค</i> เนท็นแก่ตัว'
/ je 3 xo 4 /	'a sickle'	"เคียงเที่ยวข้าว"
/je 4 2 1 /	'to reap'	'เกี่ยว <b>ท้า</b> ว'
/ je 4 /	'eight'	'แปด'
/je 4 ne 5/	'the larvae of mosquitoes'	'ລູກນ້ຳ'
/ je 5 /	'soldier'	'ททาร'
/ ja 1 bo 3 jo 1 tJho 3 /	'straight hair'	'ผมเหยียดตรง'
/ ja 1 bja 2 /	'bright'	'ซา่าง'
/ja 1 go 5 /	'pipe'	'กล้องธูบยา'
/ja 1 ju 1 bo 1 2u 5 /	'rubber tube'	'ท่อ,ซายยาง'
/ja 1 kə 1 lə 2 /	'Karen people'	'คนาะเหรี่ยง (ปกากะญอ)
/ ja 1 k <sup>h</sup> ɔ 3 /	'tobacco'	,សរជំរា,
/ ja 1 k <sup>h</sup> ɔ 4 /	'pipe tobacco smoking mixtu	re' 'บ้องธุบยา'
/ ja 1 $k^h$ o 4 bo 3 lo 2 /	'a cut off a section of bamb	200' 'บ้องธูบยาไม้ไผ่'
/ja 1 k <sup>h</sup> o 4 do 5 mo 3 % 1 /	'to crave'	,อฌบซิกก์มวุ,
/ ja 1 k <sup>h</sup> o 4 do 3 dzo 2 /	'cigarette ashes'	ขึ้นุทรี่'
/ja 1 k <sup>h</sup> ű 5 /	'fence'	, <u>v</u> ,
/ ja 1 la 3 /	'male elephant'	'ช้างตัวผู้'
/ ja 1 ma 2 /	'female elephant'	'ช้างตัวเมีย'
/ ja 1 ma 2 nã 5 no 4 /	'trunk of elephant'	'งวงช้าง'
/ ja 1 ma 2 t <sup>h</sup> i 4 ma 4 /	'a herd of elephants'	'โขลงช้าง'
/ ja 1 ma 2 dzw 5 /	'ivory'	′งาช้าง′
/ ja 1 mjã 3 mjã 3 20 1 /	'tricky'	'โกหก,หลอกลวง,เจ้าเล่ห์'
/jalp <sup>h</sup> i5/	'opium'	'ຝັ່ນ'

/ja 1 p <sup>h</sup> i 5 t <sup>h</sup> i 4 ja 2 /	'1 unit of opium"(about 100	baht)
	′ฝั่นดิบ 1 ก้อน (ราคาประมาณ 100 บาท)	
/ja 1 p <sup>h</sup> i 5 t <sup>h</sup> i 4 k <sup>h</sup> a 5/	'1 unit of opium' (about 1,00	00 baht)
	าฝั่นดิบ 1 ก้อน (ราคาประมาณ 1,000 บาท)	,
/ ja 1 p <sup>h</sup> ja 5 lu 5 za 2 /	'a cockroach'	'แมดงฆาป'
/ja 1 p <sup>h</sup> jo 5 /	'a broom'	'ไม้กวาด'
/ja 1 so 5 /	'coriander'	'ดอกไม้ที่มีกลิ่นทอม'
/ ja 1 tʃʰữ̃ 5 /	'a hut in the field'	ำระท่อมในไร่
/ja 3 /	'a mountain goat'	'แพะภูเขา'
/ja 3 2i 5 2ə 1 /	'to stay overnight'	'พักด้างดีน'
/ ja 3 le 5 /	'wind'`	,vn,
/ ja 5 k <sup>h</sup> a 3 da 5 ?ə 1 /	'to judge'	'พิจารณาตัดธิน'
/ ja 5 mo 4 /	'grass'	'ต้นหญ้า'
/ ja 5 mo 4 je 1 bjű 5 /	'a stack of grass'	'กองหญ้า'
/ ja 5 mo 4 mja 3 20 1 /	'to weed'	'ถางหญ้า'
/ ja 5 mja 3 2 1 /	'to clear the field'	'ถางไร่'
/ ja 5 ye 2 /	'dry rice field'	'ไร่ข้าว'
/ ja 5 sa 3 /	'the forest'	ʻihʻ
/ ja 5 sa 3 % 5 % 1 /	'to go to evacuate the bowel	s' ไปอุจจาระในป้า
/ ja 5 sa 3 <b>?</b> a 3 k <sup>h</sup> w 3 /	'wolf'	'หมาป้า'
/ ja 5 sa 3 bje 2 /	'the scrub'	'ป่าละเมาะ'
/ ja 5 sa 3 mi 3 dza 3 /	'wild-fire'	'ไฟป่า'
/jo 1 2a 3 /	'wet'	'បើមក'
/jo 1 2o 2 /	'low,short'	'ฉั้น,เตี้ย,
/ jo 1 2o 3 /	'easy'	'ง่าย'
/jo 1 2ø 5 /	'old'	'ແກ່,ເກ່າ'
/ jo 1 ba 3 /	'thin'	,ตอม,
/ jo 1 bo 3 jo 1 di 2 /	'curly hair'	′ผมทยิก′
/ jo 1 to 3 jo 1 gu 2 /	'curly hair'	'ผมหยิก'
/ jo 1 bu 3 /	'to be rotten'	'ເນົ່າ,ຜູ'
/ jo 1 bje 2 /	'soft'	,ກຸ່ວາເງວາ,
/ jo 1 bja 2 /	'moonlight,bright'	'เดือนที่แจ้งหว่าง'
/ jo 1 bja 2 jo 1 ts <sup>h</sup> e 3 /	'to tar (the face)"	′ทาหน้า′
/ jo 1 bja 3 /	'to be flat in taste, to be insi	pid' จืด,ไม่มีรสชาด

/ jo 1 bjo 3 /	'to be enjoyable'	,¤ını,
/ jɔ 1 bjɔ 3 gu 5 2ə 1 /	'to hoop'	'ร้องโห่ตะโกน'
/ jɔ 1 bjữ 2 /	'deligent'	'ขยัน,ฉลาด'
/jo 1 do 2/	'circle,round'	יטסע,גמחטכי
/ jo 1 do 5 /	'straight'	,w20,
/ 5 % b 1 cj /	'lazy'	ขึ้เกียจ'
/jo 1 ga 1 ga 1 ?ə 1 /	'to feel cold'	′ทนาว′ /
/jɔ 1 ga 1 ga 1 ja 3 /	'winter'	′ฤดูทนาว
/jɔ 1 ga 1 ga 1 ka 5 dữ 2 7ə 1/	'a woolen coat'	'เสื้อกันทนาว'
/jo 1 ga 1 ga 1 p $^{h}$ ja 3 p $^{h}$ ja 3 2ə	1 / 'to shiver from fever'	'ฌั่นพราะเป็นไข้'
/ jo 1 ga 1 ga 1 dzu 3 dzu 3 20 1	/ 'to shiver from cold'	'ธั่นเพราะทนาวเย็น'
/ jo 1 gõ 3 /	'to be crooked'	'โค้งงอ'
/ jo 1 gɔ̃ 3 pʰɔ 2 /	'to turn'	'เฉี้ยว,ทัน'
/ jo 1 go 5 /	'tall'	'សូប'
/ jo 1 gw 2 /	'dry'	<i>่</i> แห้ง <sup>,</sup>
/ jo 1 hw 3 /	'big'	·ใกญ่·
/ jɔ 1 jɛ 2 /	'scurf'	ขึ้งังแด
/jo 1 ja 2 /	'difficult'	'ยาก'
/jo 1 ja 4 /	'to be ripe'	,ឃ្នាប,
/jo 1 ja 5 /	'cheap'	,วาษาบิบ,
/ jo 1 jo 3 jo 3 ji 5 jo 1 /	'to blot the paper'	'เซียไป'
/ jo 1 jo 4 /	'dirty'	,¤บฦ2บ,
/ jo 1 jw 1 se 3 no 2 /	'tennis shoes'	'รองเท้ายาง'
/jo 1 ku 2 /	'to be crumpled'	, <u>ค</u> ุกถุ๋อุ,
/ jo 1 k <sup>h</sup> a 3 /	'bitter'	'ขม'
/ jo 1 k <sup>h</sup> o 5 /	'fast'	,t <u>2</u> 2,
/ jɔ 1 kʰɔ 5 kʰɔ 5 /	'quick! quick! '	,เร็ว1 เร็ว1,
/ jo 1 k <sup>h</sup> ɔ̃ 2 /	'heavy'	'ทบัก'
/ jo 1 k <sup>h</sup> u 3 k <sup>h</sup> u 5 ye 2 /	'to be rough (of a surface)"	<u> (ที่วงวักวะ,</u>
/ jo 1 k <sup>h</sup> w 5 /	'delicious'	<b>,</b> ο <u>γ</u> ο ε,
/ jo 1 15 5 /	'hot ( water, body)"	'ตัวร้อน,น้ำร้อน'
/ jo 1 lữ 5 /	'warm'	·ວນວຸ່ນ <sup>,</sup>
/ jo 1 lə 3 /	'pink'	'ฉีชมพู'
/ jo 1 mi 5 na 1 lo 2 /	'everynight'	'ทุกดีน'

/jo 1 mõ 5 /	'long'	'em'
/jo 1 mw 3/	'good,beautiful'	'ត្តី,សាម'
/ jo 1 mja 3 mja 3 /	'many,a lot'	,วมบริเมส,
/ jo 1 ne 5 /	'red'	'ฌีแดง'
/jo 1 na 2/	'black'	'ឆี่ดำ'
/ jo 1 na 4 /	'deep'	'សีก'
/jo 1 nã 1 na 1 lo 2 /	'everyday'	'ทุกวัน'
/jo 1 nõ 3/	'young'	'เด็ก,อ่อน'
/jo 1 mữ 5/	'short'	'เตี๊ย'
/ 5 mg 3 /	'to shrivel (leaves)"	'เหียวแห้ง'
/ 5 m/ 5 /	'green'	'ឆីលីខាវ'
/ jo 1 po 4/	'to be curve,to bend'	'โด้งงอ'
/jo 1 pe 4/	'to leak'	'žý'
/jɔ 1 p <sup>h</sup> i 5 /	'the taste of something which	is not properly ripe'
		'ร <sub>ซ</sub> ชาดที่ยังไม่ธุก'
/ jo 1 pje 2 /	'humid'	ซึ่นและ
/jɔ 1 p <sup>h</sup> ɛ 5 /	'astringent (of taste)"	'ฝาด,ขึ้น'
/jɔ 1 pʰɔ̃ 3 /	'to be stained, soiled'	'เปรอะเปื้อน'
/ 5 w <sup>4</sup> q 1 cj /	'blue'	'ฌีฟ้า'
/ jo 1 g <sup>h</sup> g 3 /	'to be rotten'	'ພຸ,ເນ່າ′
/ 5 1 p <sup>h</sup> ø 3 /	'expensive'	'แพง
/ jɔ 1 p <sup>h</sup> jɛ 3 /	'to be torn'	′ฉีกขาด′
/ jo 1 p <sup>h</sup> ju 5 /	'white'	'ฉีขาว'
/ jo 1 sa 4 be 3 la 4 20 1 /	'to stink, smell of raw meat, b	olood,fish' กลั่นควา
/jo 1 so 2 /	'good smell'	ากลิ่นทอม"
/jo 1 su 4 /	'narrow'	'แคบ'
/jo 1 sə 2/	'to be punctilious, meticulous'	'คนมีระเบียบ,พิถีพิถัน'
/jo 1 ta 2 /	'salty,sharp'	'เค็บ,คบ'
/ j 2 1 t <sup>h</sup> 2 3 /	'to be in a hurry'	,เวุงุวุก,
/ 5 2 t <sup>h</sup> 2 /	'to tighten'	'ตึง'
/ jo 1 t <sup>h</sup> u 5 /	'thick'	ำทนา'
/ jo 1 t <sup>h</sup> u 5 na 1 lo 2 /	'everywhere'	ำุกๆที่
/jo 1 xa 2/	'strong'	'แข็งแรง'
/ jo 1 xa 3 /	'fierce'	'ดุร้าย'

/jo 1 ya 2 mu 5 jø 5 m 1 /	'to mock'	'ทั่วเราะเยาะ'
/ 5 of 1 an 8 ay 1 cj /	'everyone'	'ກຸກທu'
/ jo 1 yõ 5 /	'to be stout, clever, hard'	'ฉลาด,ยาก'
/ jo 1 zi 4 /	'to endure'	'ทนทาน,คงทน'
/ jo 1 zo 5 /	'dark'	'มีด,ดำ'
/ jo 1 za 3 /	'small'	'เด็ก'
/jo 1 za 3 tp3 /	'a dwarf'	,แพวะแบรูก,
/ jo 1 dzu 3 dzu 3 % 1 /	'to shake'	'ฌั่น'
/ 1 ef 1 wzb 1 wzb 1 cj /	'to be itchy'	'คัน'
/ jo 1 tse 4 /	'cool'	'ເຍົ້ນ'
/jo 1 ts <sup>h</sup> i 3 /	'to save'	.กุระหภุข.
/ jo 1 ts <sup>h</sup> u 5 /	'fat'	'ðɔ̃ư'
/joltpeltpe5tp <sup>h</sup> 512e1/	'to parade,to march in line'	'เข้าแถว'
/ jo 1 to 4 to 4 dzo 5 20 1 /	'to pacify'	<b>'</b> อยู่อย่างสงบ'
/jo 1 \$\psi^h \varepsilon 2 /	'to have a pointed of edge'	,ทุลอกรูท,
/jo 1 tp <sup>h</sup> ø 5 /	'sweet'	<b>'ทวาน'</b>
/ jo 1 tj <sup>h</sup> a 3 /	'poor, the cliff'	'ยากจน,หน้าผา'
/ jo 1 tj <sup>h</sup> o 5 /	'clean'	'ฆะอาด'
/ jo 1 tshu 4 /	'new'	์ใหม่ <sup>,</sup>
/ 5 ut/hw 5 /	'yellow'	'มีเหลือง'
/jo 1 dze 1 ma 1 dze 3 /	'to suppose'	'ສນນຸທີ,ສນນຸຫີວ່າ'
/jo 1 dzu 5 /	'muddy'	,เฎกโษยภายก,
/ jo 1 d3ű 3 /	'raw'	'សិប'
/jo 3 % 1 /	'to stand'	'ยีน'
1 jo 3 mjo 3 l	'tricky,fraudulent'	'โกหก,เจ้าเล่ห์'
/ jo 3 dʒi 5 jo 3 ka 2 /	'a kind of bird which nests	in the roof of an
·	Akha house' "นกที่มาก่	ทรังที <b>่หลังคาบ้านด้</b> านใน
/ jo 3 d3o 5 na 1 lo 2 /	'often'	'ນ່ອຍໆ'
/ jo 5 t <sup>h</sup> i 4 xo 4 /	'a goat year'	'ปีแพะ'
/jo 1 2  1 /	'to roll'	'ม้วน,ทมุน'
/jo 1 2i 5 2ə 1 /	'to be nicked,chipped'	'ถ้อเถียน'
/jo 1 nã 1 nã 1 /	'everyday'	'ກຸກວັນ' 🗸
/ jo 2 2 1 /	'to shake'	'ฌั้น'
/ jo 3 pa 4 /	'belt'	'เข็มขัด'

'ชาวกะเหรี่ยง,ปกากะญอ'

/ jo 4 /	'waist'	<b>'ເ</b> ୭၁'
/ ju 3 du 3 /	'a room'	'ท้อง'
/ ju 3 jø 5 la 5 2= 1 /	'drowsy'	'ง่วง,ฆัปทงก'
/ ju 3 xa 2 % 1 /	'to sleep'	'นอนหลับ'
/ ju 3 tse 5 ju 3 ta 3 2 1 /	'to have sexual intercourse'	'ร่วมเพ <i>ด</i> เ'
/ ju 5 20 1 /	'to hold with thumb and inde	ex finger'
		ทยิบโดยใช้นั่วโป้งและนั่วชั้ง
/ ju 5 sa 3 /	'small beads'	'ลูกปัด'
/ ju 5 t <sup>h</sup> a 3 20 1 /	'to put'	ીશં, ગ૫'
/ju 5 za 1 2ə 1 /	'to get'	'ได้รับ'
/ ju 5 za 3 2ə 1 /	'to hide'	'ช่อน'
/ ju 5 tʃʰa 2 /	'dice'	'ຄູກເຫ້າ'
/jũ̃5 le 5 % 1 /	'to shrink'	'ทด'
/ jw 4 20 1 /	'to crack'	'ฆะบัด,หวด'
/jw 4 d3c 1 20 1 /	'to whip out'	'ฆลัดออกไป'
/ jə 3 2ə 1 /	'to pinch'	′หยิก′
/ jø 5 % 1 /.	'to flow'	'ไทล'
/ jø 5 do 2 le 1 7ə 1 /	'to leak'	, <u>p</u> ,
/jø5k <sup>h</sup> a52i52ə1/	'to spill over, to be filled to	
		′น้ำไหล′
	/ k /	
/ka 1 % 1 /	'to comb'	′ทวีผม′
/ka 1 pu 3 % 1 /	'to sink'	′จม′
/kalp <sup>h</sup> ə2/	'coffee'	'ภาแพ่'
/ka 1 dze 5 /	'side'	'ด้านข้าง'
/ ka 2 /	'crossbow'	ำหน้าไม้
/ka 2 mja 1 bɔ̃ 3 /	'an arrow container made fro	m bamboo'
	'กระบอกไม้ไผ่ฉ่าหรับใช่ลูกดอก'	
/ka 3 da 1 jo 1 na 2 /	'a blackboard'	'กระดานดำ'
/ka 3 la 3 ba 1 la 2 /	'calendar'	'ปฏิทิน'
/ ka 3 lɔ̃ 5 /	'the hollow of the valley'	'ກຸບເขา'
	177 1 1	toman matters along and

'Karen people'

/ ka 4 liế 3 /

/ ka 5 ko 1 bo 1 le 1 /	'to strive'	'พยายาม,ຫ່ວຜູ້'
/ ka $5$ ma $2$ $/$	'path'	ำทางเดิน'
/ka 5 mja 1 /	'arrow'	<b>'ស៊</b> បឲ្យប្រ
/ ko 1 % 1 /	'to stir the food or soup,to	be smart,
	to row a boat'	'คนอาหาร,แฆบ,พายเรื่อ'
/ko 1 lo 2 /	'Northern Thai people'	'ชาวไทยเทนีอ'
/ kɔ 3 jø 3 /	'a walking stick'	"ไม้เก้า"
/ ko 3 dzo 3 /	'mountain'	'ภูเขา' 🗸
/ko 3 tco 1 2u 3 du 2 /	'top of the mountain'	'ยอดเขา'
/ko 4 % 1 /	'to bite'	'กัด'
/kɔ̃ 1 ቴ <sup>h</sup> ε 5 /	'spade' •	'ស៊ើខររ'
/ko 1 ko 5 mɔ̃ 5 ?ə 1 /	'to be crisp, to be brittle'	,มวอก,
/ ko 4 /	'six'	'6'
/ ko 4 ts <sup>h</sup> e 5 /	'sixty'	'60
/ko 4 ts <sup>h</sup> e 5 na 3 /	'sixty-five'	'65'
/ko 4 ts <sup>h</sup> e 5 ti 4 /	'sixty-one'	'61'
/ ku 1 lo 2 /	'small room in the granary'	'ท้องนอนเล็กๆในยุ้งข้าว'
/ku3p <sup>h</sup> je32ə1/	'to fly a kite'	'ເຄ່ນວ່າວ'
/ku $5$ lu $5$ me $3$ $te^h$ a $3$ /	'an edible ground lizard'	'ແຍ້'
/ kw 3 15 3 /	'merit'	′วิญญาณ,ธิ่งที่นับถือ′
/ kw 3 lɔ̃ 3 tɕʰa 5 ʔə 1 /	'to ask for merit'	,ลอพวณภษวาทเชื้อ,
/ kw 3 to 4 /	'a kettle'	'กาตับน้ำ'
/kə 1 la 5 mɔ 3 /	'almost'	′เกือบ′
/ klə 1 /	'the sound of thunder'	'เฉียงฟ้าร้อง'
	/ k <sup>h</sup> /	
/ k <sup>h</sup> e 3 tJho 3 /	'one type of the flower'	'ดอกไม้ป่าชนิดหนึ่ง'
/k <sup>h</sup> a 1 7ə 1 /	'to grow'	'ปลูก'
/k <sup>h</sup> a 1 da 4 /	'the plant that grows at the	•
		'ต้นเทียนหยด'
/k <sup>h</sup> a 1 p <sup>h</sup> jo 5 /	'bamboo basket'	'ตะกร้าไม้ไผ่'
$/ k^h a 3 b \emptyset 3 /$	'a partition,a wall dividing a	room in the
	•	ห้องชาย/หญิงในบ้านชาวอาข่า

/k <sup>h</sup> a3da3/	'a trap'	'เครื่องอาบท้า'
$/ k^h a 3 h \tilde{u} 5 /$	'a bear'	'ทมี'
$/ k^h a 3 le 5/$	'dust'	,ďn. \
/ k <sup>h</sup> a 3 la 1 la 3 zw 3 /	'leopard'	,เชื้ออเม, ค่.ศ. ไ
$/ k^h a 3 la 3 /$	'tiger'	'ស៊ែច'
$/ k^h a 3 la 3 t^h i 4 xo 4 /$	'a tiger year'	ับเมือ <sup>*</sup>
/k <sup>h</sup> a 3 lo 1 bø 1 /	'cave'	"ทั้"
$/ k^h a 3 lo 1 k^h \tilde{3} 3 /$	'cave'	'เก้า
/k <sup>h</sup> a 3 lo 2 /		
/ K & 3 10 2 /	'big bamboo basket with no	over, or stone, rock 'menร้าไม้ไผ่แบบไม่มีฝาปิด'
$/k^{h}$ a 3 me 1 $w^{h}$ e 5 2 $\Rightarrow$ 1 /	'to have an acid taste in the	mouth' เปรียวปาก
$/k^{h}$ a 3 me 2 /	'mouth'	'thn'
$/ k^h$ a 3 na 2 /	'soot,lampblack'	'เขม่าควันตะเกียง'
/k <sup>h</sup> a3 te 4/	'the pine-apple plant'	'ສับปะรด'
/k <sup>h</sup> a 3 so 1 ko 2 /	'chowmein'	'ก๋วยเตี๋ยวแท้ง'
/ k <sup>h</sup> a 3 so 1 tJ <sup>h</sup> w 5 /	'chowmein'	'ข้าวซอย'
/ k <sup>h</sup> a 3 yə 3 /	'charcoal'	'ถ่าน'
/ k <sup>h</sup> a 3 zo 5 be 5 dze 5 /	'lizard'	'จิ้งจก'
/k <sup>h</sup> a 3 zw 3 /	'leopard'	'เลื่อดาว'
/k <sup>h</sup> a 3 dze 5 /	'a hawk'	'เทยี่ยว'
/k <sup>h</sup> a 3 ts 2 /	'sambar deer'	'טרכח'
/k <sup>h</sup> a 5 ? 1 /	'to drive'	'Ϋυ,Ϋ'
/k <sup>h</sup> a5ja1/	'jute bag'	ว่ามที่ทำจากป่าน∕ ใยกัญชา′
/k <sup>h</sup> a5p <sup>h</sup> u1/	'a bamboo basket for keepin	ng the unhusked rice'
		'ตะกรักไม้ไผ่ใช้เก็บข้าวเปลือก'
/k <sup>h</sup> a5tj <sup>h</sup> w4/	'sand'	'ทราย'
/k <sup>h</sup> a 3 dzi 5 za 3 /	'husband'	'ซามี'
$/k^{h}$ o 1 tə 1 za 3 /	'mirror'	'חסייסח'
/ k <sup>h</sup> o 1 zə 5 /	'a post,a pole,a pillar'	'ক্লো'
/ k <sup>h</sup> o 3 /	'one plot of the field'	ห์ไร่ 1 แปลง <sup>,</sup>
/k <sup>h</sup> o 3 da 3 /	'a mattress'	'ที่นอน'
/ k <sup>h</sup> o 3 du 5 /	'a clothesline'	. ราวตามญ.
/ k <sup>h</sup> o 3 15 5 /	'neck'	'MO' 🦯
/ k <sup>h</sup> o 3 lõ 5 tsw 4 /	'Adam's apple'	'ลูกกระเดือก'

/k <sup>h</sup> ɔ 3 p <sup>h</sup> jữ 3 /	'a cone-shaped cover made o	of bamboo for keeping
- · · · · · · · · · · · · · · · · · · ·	food away from flies'	,ตุม <u>คุ</u> ทุ
/k <sup>h</sup> o 3 ta 2/	'a bamboo weaving to hang conserve food' 'ตะแกรงไม่ไผ่ที่ใช่	•
/ k <sup>h</sup> ɔ̃ 3 /	'classifier for 1 bamboo tree'	ี ไม้ไผ่ 1 ลำ
$/ k^h > 5$ to 1 to 1 $t^h \in 3$ ? $1 / $	'to prop up'	<i>่</i> ค้ายันให้ธูงขึ้น <sup>,</sup>
/k <sup>h</sup> o 5 lo 3 /	'a trough to hold water or fo	ood for domestic
	animals' sno	ไม้ใช่อาหาร⁄น้ำให้ชัตว์′
/ k <sup>h</sup> ɔ̃ 5 /	'classifier of pants or shirts'	'
/k <sup>h</sup> o 1 di 3 k <sup>h</sup> o 1 də 5 /	'the longan' (fruit)	'ฌำไย'
/k <sup>h</sup> o 1 p <sup>h</sup> i 3 /	'a bamboo rat'	'อัน'
/k <sup>h</sup> o 1 p <sup>h</sup> u 5 /	'porcupine'	'ໝ່ແ'
/k <sup>h</sup> o 1 tra 4/	'rat'	'ทนู'
/k <sup>h</sup> o 1 ta 4 k <sup>h</sup> o 1 dɔ̃ 5 /	'squirrel'	,עטביבטע,
/k <sup>h</sup> o 1 tra 4 p <sup>h</sup> ja 3 ts <sup>h</sup> o 3 /	'an animal of the squirrel kir	nd, a chipmunk'
		,บวะแผ,
/k <sup>h</sup> o 2k <sup>h</sup> a 5/	'the knuckle of the hand'	'ข้อมือ'
/ k <sup>h</sup> u 3 bjã 3 /	'throat'	<b>'</b> ₽Đ'
/ k <sup>h</sup> u 3 bjã 3 25 5 pe 3 20 1 /	'to strangle'	'บีบคอ'
/ k <sup>h</sup> u 3 p <sup>h</sup> ju 5 /	'sweat'	'เทงื่อ'
/k <sup>h</sup> u 3 ma 3 /	'a cup,a small bowl'	'້າກ້ອເລີ້ກໆ'
/ $k^h$ u 3 ma 3 se 1 bje 5 /	'dish'	′จาน′
/k <sup>h</sup> u 3 t/a 4 /	'spoon'	'ช้อน'
/k <sup>h</sup> u 3 tea 4 ma 2 /	'a ladle'	<b>′</b> กัพพี′
/k <sup>h</sup> u 3 tca 4 bja 3 /	'a flipper'	'รองเท้าแตะ'
/k <sup>h</sup> u 4 25 5 29 1 /	'to dip into'	'เทใ <mark>ธ่เข้</mark> าไป'
/k <sup>h</sup> u 5 2  1 /	'to call'	'เรียก'
/k <sup>h</sup> u 5 nø 3 æ 1 /	'to wake someone up'	'ປ <sub>ຶ</sub> ດກ'
/ k <sup>h</sup> u 3 k <sup>h</sup> o 1 t <sup>h</sup> o 1 ?a 1 /	'sign to show that a lot of d	lomestic animal died'
	'ไม้ไผ่เกานป็นแถกๆติดไว้ที่ทางเข้าหมู่บ้านเพื่อบอกว่าที่หมู่บ้านนี้มีเฉัตว์เป็น	
	[รงพ.ศ	
/ k <sup>h</sup> w 3 ma 2 /	'daughter-in-law'	'ลูกซะใภ้'
/ k <sup>h</sup> w 3 t <sup>h</sup> i 4 xo 4 /	'a dog year'	′ปีทมา′
/ k <sup>h</sup> w 3 tJ <sup>h</sup> e 5 /	'a flea'	ำหมัด,เห็บ

/ k <sup>h</sup> w 5 bố 3 /	'leg-wear' (for women)' ปลอกผ้าที่ผู้หญิงสวมใส่บริเวณน่อง		
/ k <sup>h</sup> w 5 du 4 /	'calves of leg'	'น่อง'	
/ k <sup>h</sup> w 5 lõ 5 /	'ankle'	'ข้อเท้า'	
$/k^h w 5 ma 2/$	'the big toe'	'นั่วโป้งเท้า'	
/k <sup>h</sup> w 5 ne 5/	'toe'	'โ๊กเฑ้า'	
/ k <sup>h</sup> w 5 nw 4 /	'ankle bone'	ากระดูกข้อเท้า	
/k <sup>h</sup> w 5 tj <sup>h</sup> a 3 /	'the little toe'	'นิ้วก้อยเท้า	
$/ k^h w 5$ to $4 t c^h i 1 2 = 1 /$	'to step'	'້ານ,ກ້າວ,ຍ່ານ'	
/k <sup>h</sup> ə 1 2ə 1 /	'to burn'	'lan'	
$/ k^h g 3 t f^h o 1 ho 1 ?e 1 /$	'to be inquisitive,curious,meddling' 'อยากรู้อยากเห็น'		
/ k <sup>h</sup> ø 5 d3e 3 /	'like that'	'อย่างนั้น'	

# /1/

/ li 3 ma 3 /	'letter'	<b>'จดหมาย</b> '
/ li 3 so 5 /	'Lisu people'	เอนซุมอ.
/ li 4 /	'python'	′งูเทลีอม′
/ li 5 je 3 za 3 /	'bicycle'	รถจักรยาน"
/ li 5 je 3 /	'bicycle'	'รถจักรยาน'
/ li 5 pa 3 2i 1 hə 1 dʒɔ 2 /	'this week'	'ฌัปดาห์นี้'
/ li 5 pa 3 2i 5 $k^h$ a 5 na 5 d3o 2 $\ell$	' 'next week'	'ฌัปดา <b>ห์หน้</b> า'
/ li 5 pa 3 2i 5 mi 5 nɔ̃ 2 nɔ̃ 2 dʒ	o 21 'last week'	'ฌัปดาห์ที่แล้ว'
/ li 5 pa 3 2i 5 pi 4 dzo 2 /	'two weeks'	'2 ฉัปดาห์'
/ li 5 tpi 3 /	'lichee'	'ลิ้นชี่'
/le 1 da 2 2 1 /	'to go up'	ซึ่นไป <sup>,</sup>
/ le 1 ts ha 5 /	'dust'	,ຕູ່ <sub>ໄ</sub> π,
/ le 2 /	'market'	'ຫରୀଉ'
/ le 3 % 1 /	'to smear'	'ຄະເຄນ'
/ le 3 hữ 3 t <sup>h</sup> a 3 2 1 /	'to prepare'	,ເພຼວຄກ,
/ le 3 k <sup>h</sup> ữ 5 le 3 nữ 5 /	'excretions from the armpits'	'กลิ่นรักแร้'
/ le 3 ts <sup>h</sup> i 3 20 1 /	'to wash the clothes'	'ซักเลื้อผ้า'
/ le 5 mə 3 /	'ashes'	ขี้เถ้า'
/la 1 7w 3 7 5 /	'to concentrate'	รวมกัน'
/la 1 da 2 /	'the waxing moon'	'ข้างขึ้น–เดือนหงาย'

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/la 1 kh = 3 2 1/
                                       'to mix'
                                                                           'ពលរា,
-/la 1 li 1 29 1/
                                       'to wag the tail'
                                                                           'กระดิกทาง'
 /la 1 pø 3 2 1/
                                       'to cook briefly,to parboil (vegetables)" 'אחר'
 /la 1 sa 2 29 1/
                                       'to keep,to curve'
                                                                           'เก็บ โด้ง'
 /la 1 xũ 3 % 1/
                                       'to force someone to do'
                                                                           ำเงคับให้ทา
 /la 1 ts 2/
                                       'the wanning moon'
                                                                           'ข้างแรม-เดือนมืด'
 / la 3 tshe 3 /
                                       'to pour the water over something'
                                                                                        เมอกุกใช่,
 / la 3 % 4 la 3 th 5 5 /
                                       'armpit'
                                                                           รักแร้
 / la 3 be 3/
                                       'ring'
                                                                           'แทวน'
 /la 3 bw 3 /
                                       'Chinese Yunnanese people'
                                                                           'ดนจีนช่อ'
 /la 3 bw 1 mo 3 tshø 5/
                                                                           ,ภูกฤรุ้ง,
                                       'potato'
 /la 3 bw 1 mi 5 xõ 3/
                                                                           'ประเทศจีน'
                                       'China'
 /la 3 di 2 /
                                                                           'ການເກນ'
                                       'pants'
                                                                           ำบางเกงใน'
 / la 3 dí 2 la 3 də 2 /
                                       'underwear'
 /la 3 di 2 phe 5 who 5 do 2 la 1 / 'to mend pants'
                                                                           'ปะกางเกง'
 /la 3 du 2/
                                       'arm'
                                                                           'แขน'
                                                                           'เกไลข้อมือ'
 /la 3 du 4/
                                       'bracelet'
                                       'a skirt like dress, formerly worn by Northern Thai
 /la 3 ga 3 /
                                                                           'ผ้าซิ่น ผ้าถุง'
                                       'fingerprint, the lines on the palm' 'เต้นดายมือ'
 1 la 3 ko 2 /
 /la 3 kha 3 te^h \epsilon 5/
                                                                           ,ทูดวาทໝี,
                                       'to be happy'
 / la 3 15 5 /
                                       'wrist'
                                                                           เก็บที่อ
 /la 3 ma 1 mu 1 tshe 5/
                                       'a centipede'
                                                                           'ตะขาบ'
                                                                           'งวงช้าง'
 /la 3 ma 2/
                                       'the thumb'
                                                                           'กักรีเค'
 /la 3 nø 5/
                                       'finger'
                                                                           'เด็บนิ้วมีก'
                                       'finger nail'
 /la 3 35 3 /
                                                                           'หั้าเาเาเ'
 /la3ta2/
                                       'upstair'
                                                                           'ฝ่ามีอ' /
 1 la 3 xo 21
                                       'the palm of a hand'
                                                                           ,กุรกฎอ,
 /la 3 xo 2 te 3 7 1/
                                       'to clap the hands'
 1 la 3 xo 4/
                                       'crippled'
                                                                           เงกษ์บาว,
                                       'the palm of a hand'
                                                                           'ฝ่ามีก'
 /la 3 za 3 /
                                                                           'กัดต<sub>ั</sub>ดกับ'
 /la 3 tst 4/
                                       'elbow'
                                                                           ชิงช้า
 / la 3 tc<sup>h</sup>ə 3 /
                                       'swing'
 /la 3 tru 1 tru 1 the 3 20 1/
                                       'to clench the hand'
                                                                           'ทำวิโคา'
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/ lo 5 go 3 ma 2 /	'ocean'	,กมาชก์น2,
/ lo 5 xo 4 /	'the ceremonial well'	'บ่อน้ำศักดิ์ฉิทธิ์'
/ lo 5 xõ 3 /	'the spirit gate'	<b>.</b> ฦระพิทู.
/ lo 5 x 3 3 bja 5 /	'the ceremonial spirit gate'	'ประตูผีในพิธีกรรม'
/ 15 5 7a 1 /	'to jail,to coil'	'ขัง,ขดเป็นวง'
/ 15 5 bja 3 /	'dewlap'	'เทนียงฉังกว์'
/ lo 1 mo 5 /	'a mill'	'กังทัน'
/lo 1 tso 2 /	'a stove made from three ro	cks put together'
		'เตาที่ทำจากก้อนหิน 3 ก้อน'
/ lo 3 % 1 /	'enough'	'เพียงพอ' 🛕
/ lu 1 ?ə 1 /	'to grab, to scramble for'	'ฉวย,คว้า'
/ lu 1 pa 4 /	'betel leaves'	<b>ั</b> ใบพลู'
/ lu 1 t <sup>h</sup> ɔ̃ 3 /	'a worm'	'nuou'
/ lu 5 2 1 /	'to fry'	'ทอด'
/ lữ 3 bjữ 5 /	'cemetry'	'ป่าช้า'
/ lữ 3 gu 1 ne 3 2 1 1	'to bawl'	'ตะโกนมู่ตะคอก'
/ lə 3 % 1 /	'to peel the fruit"(by hand)	'ปอกเปลือกผลไม้ด้วยมือ'
/lao 1 mi 5 x 3 /	'Laos'	.กุระเมนขม,
	/ m /	
/ mi 1 sõ 5 lõ 5 /	'the place for making ce 'ลานทำพิธีข่าสัตว์ที่ผิดประเพณี'	remony of the village'
/mi 1 tshe 5 /	'a knife'	'มีด'
/mi1 t <sup>h</sup> e 5 jo 1 nữ 5 /	'a short knife'	'มีดธั้น'
/ mi 1 tche 5 mi 1 xo 4/	'a curved knife'	'มีดโจ้ง'
/mi 1 $\mathfrak{t}^h \varepsilon$ 5 mi 5 ma 2 /	'a big knife to use for cutti	ng plants'
	S	·มีดใหญ่ใช้ฟันหญ้า
/ mi 3 bo 3 /	'a torch,a punk	'ไต้,คบไฟ'
/ mi 3 bə 2 /	'gun'	ปีน'
/ mi 3 bə 2 nữ 5 /	'a pistol'	'ปีนธ์้น'
/ mi 3 bə 2 mi 3 si 3 /	'a bullet'	'ลูกปีน'
/ mi 3 da 4 /	'young woman'	'หญิงສາว'
/ mi 3 lữ 5 /	'flame'	'เปลวไฟ'

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/ mi 3 xø 3 /	'smoke'	<b></b> 'ควันไฟ'
/ mi 3 dza 3 /	'fire,firewood'	′ฟีน′
/ mi 3 dza 3 % 1 do 3 % 1 /	'to put firewood'	'เรียงทองฟีน'
/ mi 3 dza 3 bjű 5 /	'fire-place'	'เตาไฟ'
I mi $3$ dza $3$ kə $2I$	'a stack of firewood'	'กองฟีน'
/ mi 3 tsa 3 tsa 2 /	'electric light'	·ไฟฟ้า <sup>,</sup>
/mi3 tc <sup>h</sup> ø3/	'widow'	'หญิงหม้าย'
/ mi 3 $t$ $f^h$ i 1 $p^h$ 5 2 /	'in front'	'ข้างหน้า'
/ mi 3 tʃʰu 3 /	'a pine tree'	. ผู้กซก.
l mi 3 $t$ $l$ $l$ $l$	'a bride'	'เข้าธาว'
/ mi 4 25 5 20 1 /	'to swallow'	'กลีน'
/ mi 5 bja 1 bja 1 2 <del>9</del> 1 /	'to collapse'	'พัง,ยุบลง'
/ mi 5 nɔ̃ 2 /	'yesterday'	'เมื่อวานนี้'
/ mi 5 nõ 2 tc <sup>h</sup> 2 3 /	'yesterday morning'	"เข้าเมื่อวานนี้"
/mi 5 k <sup>h</sup> a 3 /	'border'	'เขตแดน'
/ mi 5 lu 1 lu 1 ?ə 1 /	'to have an earthquake'	'แผ่นดินไหว'
/mi5nw1xo4/	'last year'	ปีที่แล้ว'
/ mi 5 xố 3 /	'country'	เกระเบษเ
/mi5tha3/	'soil'	'ดิน'
$/ \text{ mi } 5 \text{ ts}^{h} \text{a } 3 \text{ du } 3 \text{ p}^{h} \text{o } 3  29  1  /$	'to break up the ground'	'ឃុំចាស៊ីឃ'
/ mi 5 tri 4 /	'last night'	'เมื่อคีนนี้'
/ mi 5 dzu 3 /	'a yellow hornet'	'ตัวหมาถ่า'
/ me 4 25 5 20 1 /	'to swallow'	'កសីររ'
/ me 1 mɔ̃ 3 /	'moustache'	ำทนวดา
/ me 1 p <sup>h</sup> i 5 /	'galingale'	'in'
/ me 1 $p^h$ jo 3 jo 1 $p$ ø 3 /	'to have a sullen face'	'หน้าตาบึ้ง'
/ me 1 tj <sup>h</sup> w 5 tj <sup>h</sup> w 5 % 1 /	'tricky,fraudulent, to deceive'	'ทลอกลวง'
/me 3 % 1 /	'to teach'	รอยนา
/ me 3 jo 2 jo 2 ? 1 /	'to gargle'	′(ไก่)ขัน′
/ me 3 li 5 /	'mouth organ'	'ทีบเพลงปาก'
/ me 3 la 5 /	'tongue'	′ดิ้น′
/ me 3 th 3 /	'chin'	'คาง'
/ me 3 dze 5 /	'canker of the mouth'	'โรคปากแกกระจอก'
/ me 3 tri 2 /	'moustache'	′ทบวด′

	/me 5 bjã 1 da 3 % 1 /	'to gamble'	(เช่นบารพนัน)
	/ me 5 tsw 4 tsw 5 /	'a kind of rhizome'	'เถาวัลย์,รากไม้'
	/ma 1 bjã 1 bjã 1 20 1 /	'blistered'	,แต่อมีพอก,
	/ ma 1 bjã 5 /	'pus'	'ทนองในแผล'
	/ ma 2 hw 3 za 3 /	'the principle wife'	'เบียหลวง'
	/ ma 2 pi 5 za 3 /	'the minor wife'	(រោត្យចេត,
	/ ma 3 /	'not'	ัไม่ <sup>,</sup>
	/ ma 3 ga 3 la 5 si 3 /	'still'	'ยังคง'
	/ ma 3 la 2 /	'a species of small bamboo'	,บรรุบ,
	/ ma 3 mu 3 dze 3 ye 3 20 1 /	'to be rude'	'พูดหยาบ'
	/ ma 3 na 4 ? = 1 /	'shallow'	'ชั้น'
	/ ma 3 nø 3 dzə 5 ja 2 lə 1 /	'to poke'	ากระทุ้ง,ผลักไซ 🗸
	/ma3pa1?ə1/	'similar'	'คล้ายกัน'
•	/ma3 tca5/	'fire crackers'	'ประทัด'
	/ma3the2/	'dry cell battery'	′ถ่านไฟฉาย′ 🗸
	/ ma 3 d35 5 79 1 /	'to be careless'	'ฉะเพร่า,ชุ่มช่าม' 🗸
	/ ma 5 ba 3 /	'coconut'	เกะพรุม,
	/ ma 5 bjo 4 /	'wound,scar'	"แผด"
	/ ma 5 bø 2 /	'hole'	<b>,</b> 2,
	/ ma 5 de 2 /	'pumpkin'	'ฟักท <del>อ</del> ง'
	/ ma 5 gw 3 /	'scabies'	'ฉะเก็ดแผล'
	$/$ ma $5$ $k^h$ ə $1$ tə $2$ $/$	'the eggplant'	'มะเขือ'
	/ ma $5$ k <sup>h</sup> ə $1$ xa $3$ $/$	'the bitter eggplan	'มะโข็อขม'
	$/ \text{ ma 5 k}^{h} \Rightarrow 1 \text{ tp}^{h} \epsilon 5 /$	'tomato'	'มะโข๋อเทศ'
	/ ma 5 lu 2 /	'abscess'	′ี่ฌี′ - ✓
	/ ma 5 mi 3 /	'jackfruit'	.กก๋ก,
	/ ma 5 ma 5 ni 1 /	'real'	'গঠিও'
	/ ma 5 ma 5 ni 1 sə 3 ma 3 ŋə 5	/ 'false teeth'	.พุกฤขอท. 🧸
	/ma 5 sa 1 bo 5/	'bamboo tree'	'ต้นไผ่'
	$/ \text{ ma 5 tw 1 tw 1 t}^{h} \in 5 /$	'a papule, a pustul'	'ผ <b>ด</b> ជ័ប' 🗸
	/ ma 5 tsa 4 /	'a bottle'	'ขวด'
	/ mã 1 mi 5 xố 3 /	'Myanmar'	ประเทศเมียนม่า
	/ mã 1 mə 3 /	'Myanmar'	.กุระเบษญัถเกุม.
	/mã 1 ne 5/	'bullock'	'วัวที่ตอนแล้ว'

/mã 1 ne 5 mã 1 go 2 /	'a bull'	' <b>ɔ</b> ͡ɔ'
/ mã 1 ne 5 mã 5 ma 2 /	'cow'	'วัวตัวเบีย'
/ mã 1 ne 5 t <sup>h</sup> i 4 ma 4 /	'a drove of cattle'	,ตุ้งวัง-ษวาถ,
$/$ mã 1 ne 5 $\mathfrak{t}^{h}$ e 3 $/$	'the excretion of a bullock'	ซี่วัว′
/ mã 1 ne 5 $\mathfrak{p}^{h}$ ø 5 bo 3 gə 2 /	'canned milk'	ำบบกระป้อง
$/$ mã $1$ ts $^{\mathrm{h}}$ o $5$ ha $3$ $/$	'Burmese people'	'คนพม่า'
/ mã 3 /	'horse'	' <b>ນ້</b> າ'
/ mã 3 bjã 3 /	'the bamboo basket on the b	back of the horse for
	carrying plants' 'ตะกร้าไม้ไผ่ซาน	ใช้ใฒ่ของบรรทุกบนหลังม้า
/ mã 3 do 3 mi 3 /	'horse tail'	'หางม้า'
/ mã 3 ku 2 /	'a stable'	'คอกรัก'
/ mã 3 mã 3 ma 2 /	'female horse'	'ม้าตัวเมีย'
/ mã 3 no 3 /	'bamboo leg use for walking	g' <i>'ขาไม้ไผ่'</i>
/ mã 3 no 3 no 3 the 5 the 5 2e	1 / 'walk racing on bamboo	leg'
,	· ·	'การแข่งเดินบนขาไม้ไผ่ <sup>,</sup>
/ mã 3 to 1 xe 4 /	'to latch'	'ใฆ่กลอน' 🗸
/ mã 3 t <sup>h</sup> i 4 xo 4 /	'a horse year'	'ปีน้ำ'
/ mã 3 tre 5 /	'a male horse'	'ภักตัวผู้'
/ mã 3 dzi 3 ga 2 /	'a bolster'	'อาเม้า'
/ mo 1 k <sup>h</sup> o 5 /	'radio,bone'	′วิทยุ,กระดูก′
/ mo 3 2 1 /	'to want'	'อยาก,ต้องการ'
/ mo 3 to 1 ye 4 /	'a door bolt'	เบซอนฦุวะณี, ∼
/ mo 3 tho 3 /	'motorcycle'	'รถจักรยานยนต์'
/ mo 3 ts hø 3 /	'clothes'	'เลื้อผ้า'
/mo 3 tch	'sweet potato'	'บันเทศ'
	'a coat hanger'	'ที่แขวนเลื้อผ้า'
/mo4le5291/	'to be interested in'	'ธนใจ'
/ mo 5 /	'classifier of animal, radio, te	levision, car, bicycle'
	'ฉักษณนามสำหรับ สัตว์,วิทยุ,โทรทัศน์,รถยเ	นต์, รถจักรยาน
/ mo 5 % 1 /	'to see'	'ดู,เท็น'
/ mo 5 dũ 3 /	'a coffin'	โลงศพ'
/ mo 3 ts <sup>h</sup> 5 3 20 1 /	'to turn over'	' <b>ค</b> ວໍ່າ'
/mo 5 tehe 2/	'small teapot'	'กานั้วใบเล็กๆ'
/mu 5 p <sup>h</sup> ø 2 /	'a mongoose'	'พังพอน' 🗸
=	<del>-</del>	

/ mə 3 /	'town'	'เมือง'
/ mə 3 sə 3 /	'Lahu people'	,ษากันเคอ,
/ mə 3 tsə 3 % 3 bo 5 /	'one type of local fruit tree'	•
	/ mj /	
/ mja 1 bi 5 /	'tears'	'น้ำตา'
/ mja 1 ye 3 /	'to be squint eyed'	'งาเหล่' 🗸
$10^{1}  \mathrm{m}^{1}$ / ci 1 wn 1 sim /	'dim eyes'	'ตาพร่ามัว' 🗸
/ mja 1 nw 1 mja 1 t $f^h$ e 2 /	'eyebrows'	'ðrī'
/ mja 1 nw 1 na 5 % 1 /	'to have an eye sore'	'ตาเจ็บ,ตาอักเฉบ' 🗸
/ mja 1 nw 3 $\mathfrak{p}^{h}$ e 3 /	'excretions of the eyes'	ขี้ตา' 🗸
/mja 1 nw 1 $\mathfrak{r}^h$ e 1 $k^h$ ɔ̃ 5 /	'eyelash'	ขนตา' 🗸
/ mja 1 nw 2 /	'eye'	'm'
/mja 1 p <sup>h</sup> jo 3 /	'forehead'	'หน้าผาก'
/ mja 1 p $^{ m h}$ jo 3 si 3 2= 1 /	'handkerchief'	'ผ้าเช็ดหน้า' 🗸
/ mja 1 te 1 te 1 ?= 1 /	'to blink'	เบ2ะพฐกฒ. ≺
/ mja 1 to 2 /	'eye-glasses'	'ແວ່ນຫາ'
/ mja 4 le 5 2 1 /	'to loose conciousness,to fai	nt' 'ทมดธติ,เป็นลม'
/mjo 4 na 1 la 3 mɔ̃ 5 /	'gibbon'	'veli'
/ mjo 4 t <sup>h</sup> i 4 xo 4 /	'a monkey year'	′ปีลิง′
/ mjə 4 ?ə 1/	'to lick'	'เลีย' 🕝
/ mjã 3 /	'one type of grass use for b	olack colour dying' 'หญ้าชนิดหนึ่งใช้ย้อมตีดำ'
/ mjã 3 2> 1 /	'to catch animals'	ำงับสัตว์'
	to caten animals	00001J
	/ n /	
/ 6 c <sup>h</sup> 1 in /	'tomorrow'	′พรุ่งนี้′
/ ne 4/	'spirit'	′วิญญาณ' 🐇
/ na 1 me 5 ku 5 dzu 1 % 1 /	'to catarrh'	′น้ำมูกไหล,เป็นหวัด′
/na 1 me 5 b5 3 /	'nose'	′จมูก′
/na 1 me 5 bø 2 /	'the nostrils'	,วิงทีบ,

/ na 1 k $^{\mathrm{h}}$ 5 5 ma 3 t $^{\mathrm{h}}$ i 5 % 1 /	'to envy'	เอองบารุภณ, 🗼
/ na 1 k <sup>h</sup> ɔ̃ 5 tʃʰi 5 ʔə 1 /	'to be glad'	'ดีใจ'
/ na 1 li 3 ko 4 la 4 /	'six o'clock'	'6 นาฬิกา'
/ na 1 li 3 pe 3 la 4 /	'eight o'clock'	'8 นาพิกา'
/ na 1 li 3 yø 3 la 4 /	'nine o'clock'	'9 นาฬิกา'
/na 1 li 3 ts <sup>h</sup> e 5 la 4 /	'ten o'clock'	'10 นาพิกา'
/na 1 li 3 ts <sup>h</sup> e 5 pi 4 la 4 /	'twelve o'clock'	'12 นาพิกา'
/ na 1 li 3 ts <sup>h</sup> e 5 ti 4 la 4 /	'eleven o'clock'	'11 นาพิกา'
/ na 1 li 3 t $\int^{h}$ i 4 la 4 /	'seven o'clock'	'7 บาฬิกา'
/na 1 tʃʰű̃ 5 /	'indoor'	′ในร่ม′
/ na 3 % 1 /	'to break,to rest'	'ทยุดพัก'
/ na 3 be 2 /	'a cock's comb'	'ทงอนไก่'
/ na 3 be 5 /	'mucus'	′น้ำมูก′ 🧹
/ na 3 bo 3 /	'deaf'	'ทูทนวก'
/ na 3 bo 5 /	'ear'	′ŋʻ
/ na 3 bo 5 na 3 jo 2 /	'earrings'	′ต่างหู′ ~ ′
/ na 3 bo 5 na 3 jø 5 /	'otorrhea'	′น้ำหนวก′
/ na 3 bo 5 na 3 tʃħɔ̃ 3 /	'earwax'	ซ์ทู′
/ na 3 bja 3 /	'a cock's spur'	'เดือยไก่'
/ na 3 ja 3 xo 4 /	'next year'	′ป๊ทน้า′
/ na 3 li 3 /	'watch'	'นาพิกา'
/ na 3 ma 1 si 3 /	'kerosine'	′น้ำมันก๊าด′
/na 3 pa 1 2ø 3 /	'fourth'	'ลำดับที่ 4'
/ na 3 pa 1 je 4 /	'eighth'	'ลำดับที่ 8'
/ na 3 pa 1 ko 4 /	'sixth'	′ลำดับที่ 6′
/na 3 pa 1 ni 4 /	'second'	'ลำดับที่ 2'
/na 3 pa 1 na 3 /	'fifth'	'ลำดับที่ 5′
/na 3 pa 1 $p^h$ o 5 /	'monosodium glutamate'	เทงนิวช.
/ na 3 pa 1 sũ 5 /	'third'	'ลำดับที่ 3'
/na 3 pa 1 yø 3 /	'nineth'	′ลำดับที่ 9′
/ na 3 pa 1 ts <sup>h</sup> e 5 /	'tenth'	'ลำดับที่ 10'
$/$ na 3 pa 1 t $\int^h$ i 4 $/$	'seventh'	'ลำดับที่ 7'
/ na 3 pa 2 /	'a label,a sign'	'ฉลาก, ฆัญญลักษณ์'
/ na 3 pa 4 /	'ear'	'n,

/ na 5 79 1 /	'to hurt'	'เจ็บ'
/ na 5 ha 3 % 1 /	'to ask,to listen'	,ณฑ'พูด,
/ na 5 me 5 $t$ $f$ $h$ $i$ 3 /	'noseblood,epistaxis'	'เลือดกำเดา'
/ na 5 x 5 2 /	'back'	ำกลัง 🗸
/ na 5 xɔ̃ 1 na 5 ?ə 1 /	'to have a backache'	′ปวดหลัง′ 🗸
/ na 5 xố 1 p <sup>h</sup> o 2 /	'behind'	'ข้างหลัง'
/ nã 1 ho 3 dza 3 ja 3 dzə 5 % 1	1 'the afternoon'	. พอนกุเล
/ nã 3 /	'to stop'	'ทยุด'
/ nã 5 ma 1 do 1 la 5 20 1 /	'to sunrise'	พระอาทิตย์ขึ้น'
/ $n\tilde{a}$ 5 ma 1 do 1 xe 3 $p^h$ o 2 /	'East'	'ทิศตะวันออก'
/ nã 5 ma 1 ka 1 25 5 20 1 /	'to sunset'	′พระอาทิตย์ตก′ 🗸
$/$ nã 5 ma 1 ka 1 xe 3 p $^{h}$ o 2 $/$	'West'	มูงเลงะวักขบ,
/ nã 5 ma 2 /	'sock'	'ถุงเท้า'
/no 1 bố 3 /	'daytime'	'ตอนกลางวัน'
/ no 1 yõ 5 /	'second person pronoun'	,ชวบพกาทก์วัลมุ 5,
/ no 5 /	'the ceremonial vacation'	'วันหยุดตามประเพณีอาท่า'
/ nố 1 lố 1 lố 1 /	'sun'	'ดวงชาทิตย์'
/ nu 3 si 3 /	'sesame'	'on' /
/ nu 3 tr <sup>h</sup> e 5 /	'speck'	′จุดบนใบหน้า,ขึ้นมลงวัน′
/ nw 1 da 2 da 2 % 1 /	'to execrate'	'เกลียดซัง,โกรง'
/ nw 1 də 1 k <sup>h</sup> ə 5 je 3 /	'winged bean'	'ດັ່ວທູ'
/ nw 1 də 1 ne 5 /	'red bean'	'ถั่วแดง'
/ nw 1 də 2 /	'common bean'	'ṫ́n'
/ 2 cx 1 mm /	'long bean (larger variety)"	'ชั่วฝักยาว'
/ nw 1 kố 3 nø 5 /	'green soybean'	'ถั่วเหลือง'
/ nw 1 le 2 /	'a pimple'	' <del>ফ</del> ̃')'
/ nw 1 ma 1 da 1 ?	'to be in fury'	<sup>,</sup> โกรอเป็นไฟ <sup>,</sup>
/ nw 1 ma 1 jo 1 mw 3 /	'nice'	'ดี,น่ารัก'
/ nw 1 ma 1 jo 1 lõ 5 /	'important hasty'	<sup>*</sup> ใจเร็ว,ฉับไว <sup>*</sup>
/ nw 1 ma 1 jo 1 dzu 3 dzu 3 %	1 / 'to tremble'	'ใจหายใจคว่า'
/ nw 1 ma 1 jo 1 dzu 2 /	'mentally calm'	'ฆงบ,เยือกเย็น'
/ nw 1 ma 1 ka 1 k <sup>h</sup> a 1 29 1 /	'to be startled'	'mำให้ตกใจ'
/ nw 1 ma 1 p <sup>h</sup> e 5 /	'to be angry'	Luza,
/nw 1 ma 1 tc 2/	'sorry,sad'	'เศร้า,เซียใจ'

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/ nw 1 ma 2 /	'heart'	<b>'ทั</b> ่วใจ'		
/ nw 1 nø 3 nø 3 20 1 /	'to think'	'ሶੈଉ'		
/ nw 3 zɔ̃ 3 dɔ 3 ʔə 1 /	'nervous'	เบระวศบระวายใจ, 🔧		
/ nw 5 % 1 /	'to sit'	'นั้ง'		
/ nw 5 bo 2 /	'wooden stool'	'ม้านั่งไม้เล็กๆ'		
/ nw 5 da 3 /	'a bench'	'ນັກບັ່ນ'		
/ nw 5 co 3 /	'rattan stool'	'บ้านั้งเล็กๆทำจากทวาย'		
/nø1mɔ̃5/	'middle finger'	'นิ้วกลาง'		
/ nø 3 % 1 lo 3 % 5 /	'suspicious'	'ฒงฆัย'		
/nø3dø52ə1/	'testy,to hate'	ซีโมโห,โกรอง่าย"		
/nø3gu12ə1/	'to be a coward,to be timid'	ขึ้นลาด'		
/ nø 3 ka 2 2 1/	'to feel sentimental about	′รู้ฉีกคิดถึง′		
/ nø 3 t <sup>h</sup> e 3 20 1 /	'to endeavour'	พยายาม,อุตธาทะ		
/ nø 3 t <sup>h</sup> a 3 20 1 /	'to hope,to remember'	ำทวัง,จำ		
/ nø $3$ t <sup>h</sup> a $3$ ka $5$ ma $3$ ja $2$ $2$ ə	1 / 'to despair'	'ຮ່ອນແຮນ'		
/ nø 3 tj <sup>h</sup> a 3 2= 3 /	'to strain'	'ตึงเครียด'		
,				
/ p /				
/ pi 4 /	'two'	<b>΄</b> 2 <b>΄</b>		
/ ni 4 ja 5 /	'two hundred'	′200′		
/ pi 4 ja 5 ta 4 t <sup>h</sup> i 4 /	'two hundred-one'	'201'		
/ ni 4 ts <sup>h</sup> e 5 /	'twenty'	′20′		
/ jn 4 ts <sup>h</sup> e 5 ija 3 /	'twenty-five'	'25'		
/ ŋi 4 ts <sup>h</sup> e 5 ti 4 /	'twenty-one'	'21'		
/ pi 5 p <sup>h</sup> a 3 /	1.1 411			
	'the Akha woman who conta	icts with the spirit		
	the Akha woman who conta 'ผู้หญิงอาข่าที่เป็นผู้ทำพิธีกรรม(แม่ผี)'	icts with the spirit		
/pi 5 p <sup>h</sup> a 3 ts <sup>h</sup> o 3 % 1 /	<u>.</u>	·		
/ pi 5 p <sup>h</sup> a 3 ts <sup>h</sup> ɔ 3 ʔə 1 /	'ผู้หญิงอาข่าที่เป็นผู้ทำพิธีกรรม(แม่ผี)'	·		
/ pi 5 p <sup>h</sup> a 3 ts <sup>h</sup> o 3 20 1 / / pe 1 bố 5 /	'ผู้หญิงอาข่าที่เป็นผู้ทำพิธีกรรม(แม่ผี)'	e spirit'		
•	'ผู้หญิงอาข่าที่เป็นผู้ทำพิธีกรรม(แม่ผี)' 'to be in communion with th	e spirit' 'ຫົດຕ່ອກັບວົດທູງາດທ່		
/pe 1 bɔ̃ 5 /	'ผู้หญิงอาข่าที่เป็นผู้ทำพิธีกรรม(แม่ผี)' 'to be in communion with th	e spirit' 'ติดต่อกับวิญญาณ' 'ตั๊กแตน'		
/ pe 1 bɔ̃ 5 / / pe 1 bɔ̃ 5 फ hø 5 k ho 4 /	<ul> <li>ผู้หญิงอาข่าที่เป็นผู้ทำพิธีกรรม(แม่ผี)</li> <li>'to be in communion with th</li> <li>'grasshopper'</li> <li>'shrimp'</li> </ul>	e spirit' 'ຫົດຫ່ວກັບວັດງດູາດເ' 'ຫ້າແຫນ' 'ກຸ້ນ'		

#### /n/

/ ne 3 2 1 /	'to say,to speak'	'พูด'
/ ye 3 k <sup>h</sup> o 4 ne 3 20 1 /	'to answer'	'ตอบ'
/ ne 3 dzo 1 dzo 1 /	'utterance'	'คำพูด'
/ ne 3 t <sup>h</sup> ø 5 2 1/	'to complain'	'ບ່ແ'
/ ne 5 % 1 /	'to forget'	'ถึม'
/ ŋe 5 ŋe 5 k <sup>h</sup> ữ 1 /	'snow'	′หิมะ′ <u>~</u>
/ na 1 be 2 /	'banana'	'กล้วย'
/ ya 1 be 2 po 3 lo 4 /	'banana leaves'	′ใบกล้วย′
/ ŋa 1 be 2 t <sup>h</sup> i 4 dzɔ̃ 5 /	'a bunch of bananas'	'หวีกลัวย'
/ ya 1 be 2 ts <sup>h</sup> i 5 ni 2/	'banana root'	'ยงกับ เล่า
/ na 1 du 2 /	'the florescence of the banan	a plant' 'ปลีกล้วย'
/ na 1 je 2 k <sup>h</sup> ɔ̃ 5 /	'banana string'	'เชือกกล้วย'
/ na 1 ma 4 /	'plural first person pronoun'	
	เชรรพกาทก์รัคมุ 1 พนิพงกุ	

/ na 3 /	'five'	<b>'5'</b>	
/ na 3 20 1 /	'to borrow'	'ขอยีม'	
/ ŋa 3 jw 4 k <sup>h</sup> a 1 2ə 1 /	'to fish'	'ศกปลา'	
ηa 3 pa 1 dε 3 /	'a cat fish'	'ปลาดุก'	
/ na 3 ts <sup>h</sup> e 5 /	'fifty'	<b>'</b> 50'	
/ na 3 ts <sup>h</sup> e 5 na 3 /	'fifty-five'	<b>'</b> 55'	
/ ne 3 tshe 5 ti 4 /	'fifty-one'	<b>'</b> 51'	
/ na 3 tʃʰa 3 /	'a salted fish of the mackere	el kind' ปลาทูเค็ม	
/ $\eta$ a 3 $t$ f <sup>h</sup> a 1 ba 1 ha 3 /	'fish bone'	ำกังปลา	
/ na 3 tʃʰa 1 gɔ 2 /	'dry fish'	'ปลาแห้ง'	
/ ŋa 3 tʃʰa 1 ko 2 /	'a fish pond'	'บ่อปลา'	
/ ŋa 3 tʃʰa 1 1ɔ̃ 2 /	'salted fish'	<b>'ป</b> ลาเค็ม' 🧹	
/ ya 3 t $\int^h$ a 1 p $^h$ a 5 t $^h$ u 5 /	'a school of fishes'	'ฝูงปลา' 🗸	
/ $\eta$ a 3 t $f$ <sup>h</sup> a 1 t <sup>h</sup> i 4 ma 4 /	'canned fish'	'ปลากระป้อง' -	
/ $\eta$ a 3 $t$ f ha 1 $t$ e 5 bo 3 $g$ e 2 /	'candle'	'เทียนไข'	
/ ŋa 3 tʃʰa 1 tʃʰi 5 kʰɔ̃ 3/	'fish'	'ህልኅ'	
/ na 3 dzw 4 /	'a bait'	'เทยื่อ'	
/ na 5 /	'singular first person pronou	ın'	
		<sup>,</sup> ธรรพนามบุรุษที่ 1 เอกพจน์,	
/ no 3 % 1 /	'to shake something'	'เขย่าสิ่งของ'	
/ no 3 ni 1 ? 1 /	'to shake the tree'	'เขยาตันไม้' >	
/ no 3 xe 4 ?a 1 /	'to broke'	′ทัก′	
/ ŋ= 1 ba 4 /	'a baht coin'	,เพวุลบำกม,	
/ŋə 5 /	'yes'	' <b>ી</b> ઇ'	
/nyo/5/29/1/	'to cry'	'ร้องไห้'	
/np/5 sa 4 2= 1 /	'to sob'	'ฉะซึ้น'	
/ p /			
/ pe 5 le 4 /	'duck'	'เป็ด'	
/ pe 5 le 4 ma 2 /	'female duck'	'เปิดตัวเมีย' 🕜	
/pa 1 2 1 /	'to split, to hew'	'ດ່ນນ້ຳລາຍ'	
/ pa 3 20 1 /	'to tie'	'ໍ່ມູກ'	

erz szelőtén sálabanyában

/ pa 3 tj <sup>h</sup> w 3 do 1 la 5 % 1 /	'to bud'	′ออกดอก'
/ po 3 pi 5 /	'lemongrass'	'ตะไคร้'
/po 1 2 = 1 / .	'to look for'	'nn'
/po 1 k <sup>h</sup> a 2 /	'the compound of a house'	'ลานดินในบริเวณบ้าน'
/ pu 3 % 1 /	'to boil'	'ตั้ม'
/ pw 1 20 1 /	'to burn (food)"	'เผา,หมก (อาหาร)
	/ pj /	
/ pje 3 20 1 /	'a pigtail,a tassel'	′ทางทมู′ ั
/pja 1 29 1 /	'to claw,to scratch,to demolis	h' Zonou -
	/ p <sup>h</sup> /	
, hearh se		ر مارسوسون مارسوسون
/ p <sup>h</sup> i 3 k <sup>h</sup> w 5 /	'bile'	′น้ำดี′ ✓
/ phi 3 the 3 to 1 /	'to close'	'ปิด'
/ p <sup>h</sup> i 5 % 1 /	'hot of taste'	'รธเน็ด'
$/p^h \epsilon 5 k^h \tilde{s} 3 \text{ ma } 2 /$	'a woolen coat'	'เชื้อกันทนาว'
/phe 5 kh5 3 d3 ũ 5 le 5 2 l /	'to blot the clothes'	'ทำเลื้อผ้าเฉีย'
/phe 5 to 4/	'button'	,บ2ะอำก,
/phe 5 th 5 3 /	'a backpack'	'เป๊หลัง'
/ phe 5 th 5 5 /	'a bag'	'ກຣະເປົ້າ,ຍ່ານ'
/ p <sup>h</sup> e 5 x5 3 /	'shirt'	'ស៊េី១'
$/ p^{h_{\epsilon}} 5 x \tilde{3} p^{h_{\epsilon}} 5 1 \tilde{3} 5 /$	'T-shirt'	'เมื่อยืด'
/ p <sup>h</sup> e 1 tc <sup>h</sup> tt 5 lo 5 d3a 5 /	'the frangipani'	'ดอกฉั่นทบ'
/ p <sup>h</sup> e 5 tJ <sup>h</sup> w 5 /	'temple,monk'	'วัด,พระ'
/ p <sup>h</sup> e 5 d3e 2 /	'a sheet for a baby'	'ผ้ารองตัวเด็ก'
/p <sup>h</sup> a 1 la 1 ts <sup>h</sup> o 5 ha 3 /	'Westerner or Indian people'	'คนฝรั่ง,แขก'
/p <sup>h</sup> a32i1/	'card'	ไพ <i>่</i>
/p <sup>h</sup> a32i1da32ə1/	'to play cards'	'เล่นไพ่'
/p <sup>h</sup> a3291/	'to exchange'	.แขบเฦชุลก.
/ $p^h$ a 5 ma 3 sa 3 $k^h$ $\tilde{s}$ 5 /	'a lamp mantle'	ไซ้ตะเทียง -
/p <sup>h</sup> a3t <sup>h</sup> a2/	'a searchlight'	ไฟฉาย'
$/p^h$ a 4 bw 1 2a 3 ma 2 /	'a toad'	'ଜኅህዶሽ'

...

### / phj /

/ p<sup>h</sup>jε 3 % 1/ .ฦชุอธ(ไทุติบ). 'to untie' 1 p<sup>h</sup>ju 5 1 'เงิน ซตางด์' 'silver, money' /phju 5 bi 3 20 1/ 'ให้เงิน' 'to give money' /phju 5 tha 3 du 3/ 'bank' **,**ฉนาษา2, ~ /p<sup>h</sup>ju 5 zũ 3 % 1/ 'to pay' 'ข่ายเงิน' /phju 5 tsha 5 20 1 tsho 5 ha 3 / 'beggar' 'ขอทาน'

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/si 1 % 1 /	'to clean'	'mความ <del>สะ</del> อาด'
/si 1 mu 2 /	'a leaf's fibre'	เยื่อไม้
/ 5 c <sup>4</sup> lt is /	'to clean the table or the floo	or' 'เช็ดโต๊ะ,ถูพื้น'
/ si 3 /	'classifier of the thing,(fruit)	)"
		'ลักษณนามของสิ่งของ,ผลไม้'
/ si 3 % 1 /	'to sharpen'	<i>'</i> ውህ'

/ si 3 gu 3 /	'fig'	'มะเชื่อ'
/si 3 gu 3 2a 1 bo 5 /	'fig tree'	'ต้นมะเดื่อ'
/ si 3 k <sup>h</sup> o 1 lo 5 xa 3 /	'bitter gourd'	,TE25,
/ si 3 k <sup>h</sup> o 3 /	'cucumber'	(แตงกวา)
/si3 lø5/	'lemon'	,n::11.0,
/si 3 lø 5 ts <sup>h</sup> ø 5 /	'orange'	'ฌั้ม'
/ si 3 pa 1 2 1 /	'to know'	'รู้,รู้จัก'
/si3 pã 1 2a 1 bo 5 /	'one type of fruit tree'	'ต้นท้อ'
/ si 3 xa 3 la 3 ma 2 /	'the small eggplant'	'มะเชื่อ'
/ si 3 \$^ho 5 /	'a tree of the family Euphorl	oiaceae' "มะขามป้อม" 🗸
/se 1 gɔ̃ 5 tɕʰe 1 la 5 ʔə 1 /	'mid-night time'	'เที่ยงดีน'
/ sε 1 p <sup>h</sup> u 5 /	'garlic'	เบระเนุธก,
/ se 3 /	'the reed of the loom'	'ฟีมทอผ้า'
/ se 3 % 1 /	'to scatter'	'กระจัดกระจาย'
/ se 3 gố 2 /	'a lean-to'	'เพิ่ง'
/ se 3 le 1 p <sup>h</sup> ə 3 /	'an enameled basin'	ชามเคลื่อบ
/se 3 no 2/	'shoes'	'รองเท้า'
/se 3 no 2 lố 5 /	'canvas shoes'	'รองเท้น้ำใบ'
/ se 3 no 2 te 2 /	'slippers'	'รองเท้าแตะ'
/se 5 bo 3 bo 5 /	'onion'	'ทอมทั่วใหญ่'
/se 5 bo 3 ne 5 /	'shallot'	'ทอมแดง'
/ se 5 ju 3 ts <sup>h</sup> i 5 7ə 1 /	'late at night'	'ดีก'
/se 5 p <sup>h</sup> u 2 /	'plastic mat'	'ឆ្នេំ១พសាធពិក'
/ sa 1 ?ə 1 /	'to weigh'	′ชั่งน้ำหนัก′
/ sa 3 % 1 /	'to steam'	าปั่ง
/ sa 3 də 4 /	'salt'	'រោស៊ី១'
/sa 3 də 4 tc <sup>h</sup> ø 5 /	'sugar'	'น้ำตาล'
/ sa 3 k <sup>h</sup> ɔ̃ 5 /	'thread'	'ด้าย'
/sa 3 la 1 p <sup>h</sup> a 3 /	'resthouse'	' <i>e</i> nan' ~
/ sa 3 la 3 /	'a carpenter,cotton'	'ช่างไม้,ฝ้าจ'
/ sa 3 la 5 /	'soul'	′ริญญาณ'
/ sa 3 nữ 5 za 3 2= 1 /	'to weave'	ำกอผ้า' 🗸
/sa 3 p <sup>h</sup> i 5 /	'chilli'	<b>'</b> w͡ʒn'
/sa 3 p <sup>h</sup> i 5 sa 3 1ø 5 /	'paprika,cayenne pepper'	.พ <sub>่</sub> 2บฦุก,

/ sa 3 p <sup>h</sup> i 5 ts <sup>h</sup> o 5 7u 3 /	'bell pepper'	<b>,น</b> รถหถรุ <b>น</b> ,
/sa 3 p <sup>h</sup> a 5 /	'cloth'	'th'
/sa 4/	'air'	'อากาศ'
/sa 4 do 1 le 5 2 1 /	'to evaporate'	'ระเทย,ณะลาย'
/ sa 4 go 5 /	'to breath'	'ทายใจ'
/ sa 4 go 5 mõ 5 20 1 /	'to snore'	'ከ2ኪ'
/ sa 4 dzɔ̃ 3 2 1 /	'to hold one's breath'	'จับชีพจร' 🗸
/sa 5 p <sup>h</sup> e 3 nõ 1 /	'the day after tomorrow	วันมะรีนนี้
/ sã 3 bu 1 so 5 pũ 5 /	'school'	,[2งเรียน,
/ so 1 ?ə 1 /	'to smear'	'ละเลงทาจนเปื้อน'
/ sõ 3 /	'ink'	'หมึกปากกา'
1 sõ 3 bo 1 da 1 du 5 1	'pencil'	<b>,</b> ഉണ്ടമ,
/ sõ 3 pi 4 /	'the stump of a tree'	'ตอไม้'
/ sõ 3 xe 3 /	'to be dented'	.เฏ็นรอถเว้า.
/ sõ 3 txx 1 t <sup>h</sup> a 3 % 1 /	'to tattoo'	รู้ที่ก (หรืชก)' 🦯
1 so 5 1	'lock'	,ແກຸນ້ໍ່ເກີແລ, 🗠
/ so 5 so 5 k <sup>h</sup> ɔ̃ 3 /	'key'	, ຜົນນໍ່ນຳແລ, ·
/ sữ 3 ja 5 /	'three hundred'	<b>'300'</b>
/ sũ 3 ts <sup>h</sup> e 5 /	'thirty'	<b>'</b> 30 <b>'</b>
/ sũ 3 ts <sup>h</sup> e 5 na 3 /	'thirty-five'	<b>'</b> 35'
/ sũ 3 ts <sup>h</sup> e 5 ti 4 /	'thirty-one	'31'
/sũ 3 thơ 5/	'triangle'	'ສາມເກລີ່ຍນ'
/ sũ 5 /	'three'	<b>'3'</b>
/ sũ 5 k <sup>h</sup> ø 3 /	'to steal'	.คุฏอ
$/ s\tilde{u} 5 k^h g 3 ts^h 5 5 ha 3 /$	'a thief'	,ภูกุมโทย,
/ sũ 5 mw 3 /	'to be rich'	,Ջጋഖ,
/ sə 3 /	'tooth'	′ฟัน′
/ sə 3 jo 2 da 1 du 5 /	'toothbrush'	"แปรงฉีฟัน"
/ sə 3 jo 2 jo 2 2ə 1 /	'to brush one's teeth'	'แปรงพัน'
/ sə 3 jo 2 dʒa 1 ga 3 /	'toothpaste'	'ยาฉีฟัน'
/sə 3 ma 2 /	'molar'	'ฟันกราม' -
/ sə 3 na 5 % 1 /	'to have a toothache'	'ปวดพื้น'
/ sə 3 sə 3 dő 3 /	'gum'	'เหงือก' -
/ sə 3 ya 3 /	'paper'	'กระดาษ'
·	· · · · · ·	

/ sə 3 ya 3 2a 5 ta 4 / /sə 3 tche 3 /

'แผ่นกระดาษ' 'a sheet of paper' 'food paticles between the teeth' ขีฟัน .

#### 111

/ te 1 29 1 / 'to forge the iron' /te 1 ko 1 2 1 / 'to dry in sun and smoke' /te 1 ma 2 / 'guava' / te 1 dze 1 29 1 / 'to shake something' 1 ta 4 1 / ta 4 si 3 / 'next month' / tu 1 29 1 / 'to bump into' / ta 1 2a 1 / 'to be naughty' / tə 1 tcø 5 2 1/ 'to be stubborn' / ta 3 % 1 / 'to gnaw'

′ตากแท้งรมควัน′ เทยๆวุก. 'สะบัดของ' 'classifier of one piece of paper' '(nsenu) 1 แม่น' 'เดือนหน้า' ากระแทกเข้าไป 'ซุกซน' .<u>00</u>. ำหาว" 🗸

'ตีเหล็ก'

### / th /

1 thi 41 'one' 11 / thi 4 ia 5/ 'one hundred' 100 /thi 4 ja 5 ta 4 2ø 3/ 'one hundred-four' 1104 1 thi 4 ia 5 ta 4 ni./ 'one hundred-two' 1021 /thi 4 ja 5 ta 4 ni 4 tshe 5/ 'one hundred-twenty' '120' / thi 4 ja 5 ta 4 na 3 / 'one hundred-five' 1105  $/t^{h}i 4 ja 5 ta 4 t^{h}i 4 /$ 'one hundred-one' 101  $/t^h$ i 4 ia 5 ta 4 sũ 5 / 'one hundred-three' '103' /thi 4 ja 5 ta 4 tshe 5/ 'one hundred-ten' 110 /thi 4 ja 5 ta 4 tshe 5 ti 4/ 'one hundred-eleven' 1111 /thi 4 ko 1 lo 1 teho 3 / 'เพื่อบา๊กเเ 'neighbour' /thi 4 ko 1 lo 3 % 5 di 1 % 1/ 'to be equal' 'เท่ากับเ' / t<sup>h</sup>i 4 mw 5 / 'ten thousand' '10,000' /t<sup>h</sup>i 4 n 5 1 2 a 3 n a 1 n a 2 / 'บางวัน' 'someday' /t<sup>h</sup>i 4 po 2 % 3 na 1 na 2 / 'บางครั้ง' 'sometimes' 1thi 4 pha 51 'one thousand' '10,000'

/thi 4 so 3 /	'a cubit'	'1 <b>ศ</b> อก'
/ t <sup>h</sup> i 4 ya 3 ?a 3 na 1 na 2 /	'someone'	'บางคน'
/ t <sup>h</sup> i 4 dze 3 2a 3 na 2 /	'something'	'บางอย่าง'
/ t <sup>h</sup> i 4 dze 1 ma 3 dũ 1 nũ 3 2ə	1 /'to be naked'	'เปลื่อยกาย'
/ t <sup>h</sup> i 4 dze 1 ma 3 pə 5 /	'It doesn't matter!"	ไม่เป็นไร <sup>,</sup>
/ t <sup>h</sup> i 4 dze 3 ma 3 dző 5 /	'Not at all!"	ไม่ได้ทางะไร
/ t <sup>h</sup> e 5 2  1 /	'to pound sticky rice'	'ตำข้าวเหนียว'
/t <sup>h</sup> e 5 bja 4 /	'a board'	'แผ่นกระดาน'
/ t <sup>h</sup> e 5 dʒɛ 1 ?ə 1 /	'to nudge (horse,pig)"	'ທຸນທ້ວຍຈນູກ'
/t <sup>h</sup> ε 1 k <sup>h</sup> ũ 3 2∋ 1 /	'to round up (cattle)"	'ล้อมจับสัตว์'
/t <sup>h</sup> e 1 tre 1 20 1 /	'to chase'	'ไล่ฉัตว์'
/t <sup>h</sup> ε 3 2  1 /	'to cut'	'ตัด'
/ t <sup>h</sup> e 3 di 1 2ə 1 /	'to trim the hair'	′ເດີ້ນພນ'
/t <sup>h</sup> e 3 da 5/	'scissor'	'กรรไก <b>ร</b> '
/ t <sup>h</sup> a 3 si 3 bje 1 2a 5 dze 3 /	'television'	โทรทัศน์
/ t <sup>h</sup> a 3 /	'Don't!"	'อย่าไ'
/t <sup>h</sup> a 3 20 1 /	'to postpone'	'เลื่อนไป'
/t <sup>h</sup> a 3 si 3 bja 1 /	'movie'	'ภาพยนต์'
/ t <sup>h</sup> ã 3 xo 3 /	'the wax gourd'	'ຟັກເขีຍວ'
/tho 3 do 1 tsho 5 ha 3/	'a prisoner'	'นักโทษ'
/ t <sup>h</sup> o 5 bu 4 /	'type of Acacia'	'ชะอบ'
/th5 3 % 1 /	'to pound'	'ôn'
1 th 5 3 1	'drum'	'กลอง'
/ t <sup>h</sup> ɔ̃ 3 k <sup>h</sup> w 3 /	'an ant-hill'	'ຫັງໂ່ນ'
/ t <sup>h</sup> 5 3 la 2 t <sup>h</sup> i 4 xo 4 /	'a mule year'	ปีพ่อ"
/ th3 3 me 5 ph3 2 /	'the North'	'กิศเท <b>น็อ'</b> -
	'sunflower'	′ดอกทนตะวัน′ ✓
$/ t^{h} 5 3 p^{h} 5 1 \text{ je } 1 \text{ ma } 2 2 \text{ a } 5 \text{ nw}$	2 /'sunflower seed'	'เมล็ดของดอกทานตะวัน'
/th5 3 phu 3 20 1/	'to meet'	' <b>พ</b> บ'
/ t <sup>h</sup> ɔ̃ 3 tʃʰū̃ 5 si 3 /	'a large mortar for pounding	•
h	· ·	'ครทกระเ <del>ดือ</del> ง'
/ thố 3 đặc 1 20 1 /	'to nudge with the arm'	
/th5 5 70 1/	'to trap'	ับรรทุก <b>ของบนเครื่</b> องม้า
/t <sup>h</sup> u 5 2 = 1 /	'to fell a tree,to wake up,to	chop 'អគ្គសករោ' សក,

/ t <sup>h</sup> ə 1 /	'this'	ſť.
/ t <sup>h</sup> ø 3 2 1 /	'to point'	'€,
/ t <sup>h</sup> ø 3 τ <sup>h</sup> ε 2 /	'the index finger'	'ชี้ว์ชี้'
/t <sup>h</sup> ai 1 mi 5 x 5 3 /	'Thailand'	'ประเทศไทย'
/t <sup>h</sup> ai 1 mi 5 ts <sup>h</sup> a 3 /	'Thailand'	'ประเทศไทย'
$/ t^h ai 1 ts^h constant 5 ha 3 /$	'Thai people'	'คนไทย'
	/ x /	
/ xa 1 20 1 /	'to spit'	'ດ່ນເຕັ້າລາຍ'
/xa 3 bø 1 /	'a worm in a section of bar	nboo' 'ตัวด้วงไม้ไผ่'
/ xo 3 ?e 1 /	'to spread out'	'ทว่าแ'
/ xɔ̃ 3 /	'chest'	<b>'</b> θΠ'
/xø 5 ne 1 ba 2 /	'formerly'	ัญอก่อนนี้
/ xø 5 dæ 3 me 1 /	'because'	'เพราะว่า'
/xa3p <sup>h</sup> u3/	'husk'	ร่าข้าว 🕝
/ xa 3 zo 5 be 1 dze 5 /	'a chameleon'	'กิ้งก่า'
/ xo 4 /	'year,age'	'ปี,อายุ'
/ xɔ̃ 3 tsə 5 2ə 1 /	'to cross'	'ข้าม'
	/ Y /	
/ ye 4 /	'a bunch of bananas'	(กลัวย)หวั′
/ ya 1 ?ə 1 /	'to float'	'ฌอย'
/ ya 1 k <sup>h</sup> a 5 /	'bamboo basket'	'ก๋วยไม้ไผ่ใช้แบกของ'
/ ya 3 /	'classifier of person'	<u>(</u> የልπ) <b>ง</b> π,
/ ya 3 15 2 /	'a pond,a well'	'บ่อน้ำ'
/ yo 3 % 1 /	'to divorce,to separate'	'หย่ารั้ง'
/γο 5 æ 1/	'to weed'	'ถางหญ้า'
/ 45 f cd l 35b 5 cg /	'to stretch one's neck out to	see' 'nswnnee'
/ yɔ̃ 5 da 3 /	'ring finger'	'นิ้วนาง'
/ yu 3 2a 4 /	'kite'	,zuz,
/ ɣə 3 2ə 1 /	'to crank the machine'	หมุนเครื่องฮ <b>นต</b> ์
/ yø 3 20 1 /	'to chew'	'ເທ້້ຍວ'

1 yø 3 1	'nine'	<b>'9'</b>
/ yø 3 ts <sup>h</sup> e 5 /	'ninety'	<b>'90'</b>
/ yø 3 ts <sup>h</sup> e 5 na 3 /	'ninety-five'	<b>'</b> 95'
/ yø 3 ts <sup>h</sup> e 5 ti 4 /	'ninety-one'	'91 <b>'</b>
/ yø 5 % 3 mja 1 dze 3 /	'those'	'เหล่านั้น'
/ yø 5 dze 3 /	'that'	'ໍ່ນັ້ນ'
	/ z /	
	,	
/zi 5 dze 3 hu 1 $p^h$ o 2 /	'in the future'	, ในอนาคต,
/ zi 5 dzi 5 % 1 /	'a corpse'	'AW' 🗸
/za 1 ?u 2 /	'egg'	'l <b>i</b> '
/za 1 2u 2 ba 2 /	'egg, white albumen'	ั <sup>*</sup> ไข่ขาว <sup>,</sup>
/za 1 ?u 2 ne 5 /	'egg yolk'	'ไข่แดง' 🗸
/za 1 he 5 % 1 /	'to get'	'ได้รับ'
/za 1 ju 3 du 3 /	'a hammock'	,ເຖຍປ່ວມ, 🔨
/za 1 pi 3 /	'jungle fowl'	′ไก่ป่า′
/za 1 p <sup>h</sup> ø 5 p <sup>h</sup> ø 5 1> 1 /	'to crow (of a cock)"	'ไก่ขัน'
/ za 1 t <sup>h</sup> i 4 xo 4 /	'a chicken year'	ับไก่ <sup>,</sup>
$/$ za 1 tci 2 p $^{h}$ ø 5 $/$	'rooster'	'ไก่ตัวผู้'
/za 1 tci 4 /	'chicken'	'ไก่·
$/ za 1 t \int^h \epsilon 2 /$	'a tassel of woman's hair	dressing made of dyed
	horse-tail'	
	ำทงม้าย้อมสีใช้เป็นครื่องประดับอย่างท	นึ่งบนหมวกของหญิงอาข่า'
/za 3 % 1 /	'to weave'	ำาอผ้า'
/ za 3 da 4 /	'young man'	'ชายทปุ่ม'
/ za 3 ju 3 je 3 /	'cradle'	′เปล'
/ za 3 ku 1 za 3 /	'young people'	′ุยสมกุ๋ก−ฅม,
/ za 3 k <sup>h</sup> a 2 /	'employee'	'ลูกจ้าง'
/ za 3 k <sup>h</sup> a 3 /	'boyfriend or girlfriend'	′แฟนท <b>บุ่ม,แฟนธ</b> าว′
/ za 3 mi 1 za 3 /	'wife'	LBZZU,
/za 3 nɔ̃ 1 2a 3 ma 2 /	'a mother who has an infa	ınt'แม่ลูกอ่อน′
/ za 3 tə 1 ?ə 1 /	'to be naughty'	,מעמת,
/za 3 tri 2 za 1 ma 2 /	'to hatch'	'ฟักไข่'

		<b>.</b>
/za 3 tsə 1 2ə 1 /	'to conceive'	'ตั้งครรภ์' 🗸
/za 3 tchu 1 2a 3 da 2 /	'step father'	'พ่อเลี้ยง'
$/$ za 3 $\mathfrak{r}^h$ u 1 ?a 3 ma 2 $/$	'step mother'	'ແນ່ເລີ້ຍຈ'
/za 3 d3ø 3 /	'shuttle'	'กระธวยทอผ้า'
/za 4 ma 2 /	'female pig'	'หมูตัวเมีย'
/za 4 p <sup>h</sup> w 5 ts <sup>h</sup> i 5 ts <sup>h</sup> e 2 /	'a section of bamboo stem	on the ground'
	'ธ่วนของลำไม้ไม่ที่อยู่บนพื้นดิน'	
/ za 4 t <sup>h</sup> i 4 xo 4 $/$	'a pig year'	′ปีทมู′
/ za 4 t <sup>h</sup> e 3 /	'wild pig'	′กมูป้า′  ′′
/za 5 ma 2 /	'a winnowing basket'	ำกระดังฝัดข้าว'
/ zo 1 ?e 1 /	'to fly'	′บิน′ ∕
/ zɔ̃ 1 sɔ̃ 5 xo 4 /	'custom,tradition'	<b>ประเพณี</b> '
/ zɔ̃ 1 sɔ̃ 5 xo 4 bɔ̃ 1 le 5 ʔə 1 /	'to violate custom or traditio	n' 'ผิดประเพณี'
/ zɔ̃ 1 sɔ̃ 5 xo 4 dzɔ̃ 5 ʔə 1 /	'to perform a ceremony	<b>ู้จัดพิธีกรรมตามประเพณี</b>
/ zɔ̃ 5 xo 3 za 3 lū̃ 3 bjū̃ 5 /	'cemetary for a baby'	<b>'หลุมฝังศพ</b> ฆ่าหรับเด็ก'
/zũ 1 29 1/	'to pay'	<b>ู่</b> ช่ายเงิน'
/zə 1 2ə 1 /	'to twist'	'หมุน' -
/zə 1 nu 1 2ə 1 /	'to grind'	'ลับบีล'
/ zə 5 7ə 1 /	'to buy'	ซื้อ"
	/ dz /	
/dzi 3 % 1 /	'to ride'	'ขับ,ชี่'
/dze 1 20 1 /	'to abort,to miscarry'	'แท้งลูก'
/dza 3 % 1 /	'to eat'	'ħư'
/ dza 4 tse 1 du 3 /	'the religious area for killing	an animal which is
	against tradition.'	'ลาบบ่าสัตว์ตามพิธีกรรม'
/ dzo 1 ?ə 1 /	'to study'	, <sub>(22011,</sub>
/dzo 1 na 1 20 1 /	'to be domesticated'	<i>่</i> อยู่บ้าน,ทำให้เชื่อง <sup>,</sup>
/dzo 5 la 1 ja 3 /	'summer'	<b>กุดุร้อน</b>
/ dző 3 le 5 % 1 /	'to be puzzled'	′৩৩′
/ dző 3 ta 4 /	'a chisel'	'ສົ່ວ'
/ dző 3 t <sup>h</sup> e 3 20 1 /	'to be patiant'	′อดทน′
/ dző 5 /	'a bunch of bananas'	ากล้วย 1 หวี"

/dz5 5 mw 3 % 1/	'to repair'	·ซ่อมแซม <sup>,</sup>
/ dzu 4 /	'a pair of shoes'	'รองเท้า 1 คู่'
/ dzw 4 % 1 /	'to wash,to take a bath'	'ล้าง,อาบเ้ท'
/dzə 3 2ə 1 /	'to weave (a basket)"	'ซานตะกร้า'
/ dzə 5 2ə 1 /	'to pass over'	<i>ู้</i> ข้ามผ่านไป <sup>,</sup>
/dzə 5 si 3 /	'last month'	'เดือนที่แล้ว'
	/ ts /	
/ tse 1 20 1 /	'to bark'	'th'
/ to 2 % 1 /	'to pierce,to inoculate,to gore	'uno'
/ tso 2 ?ə 1 /	'to build'	'ฆร้าง'
/ tso 4 di 1 ?ə 1 /	'lightening'	'ฟ้าແລບ'
/ tsw 4 ?ə 1 /	'to peel the fruit (by knife),to	pinch,to nip'
		'ปอกผลไม้ด้วยมีด,หยิก,หนีบ'
/ www 4 je 5 /	'cousin'	'ญาติ'
/ tsə 1 ?ə 1 /	'to pluck'	'เด็ดดอกไม้'
/ tsə 1 mã 3 /	'tick'	'ฟูกที่นอน'
/ tə 1 p <sup>h</sup> w 5 7ə 1 /	'to extricate'	'แก้ออก'
	/ ts <sup>h</sup> /	
/tshi 1 da 5 /	'chopstick'	'ตะเกียบ'
/ ts <sup>h</sup> i 3 20 1 /	'to wash'	' <del>ซั</del> ก'
/ ts <sup>h</sup> i 3 ts <sup>h</sup> ə 3 ?ə 1 /	'to hang'	'นขวน'
/ ts <sup>h</sup> i 5 /	'fat,oil'	'อ้วน,ไขมัน'
/ ts <sup>h</sup> i 5 ni 2 /	'root,a vine'	รากไม้,เกาวัลย์
/ ts <sup>h</sup> e 5 /	'ten'	′10′ ✓
/ ts <sup>h</sup> e 5 sũ 5 /	'thirteen'	'13'
/ tshe 5 ti 4 /	'eleven'	<b>'11'</b>
/ ts <sup>h</sup> ɛ 1 k <sup>h</sup> ɔ̃ 5 /	'hair (head)"	<b>'</b> ພນ'
/ tshe 3 % 1 /	'to plow'	'ไถดิน'
/ tshe 3 ma 2 /	'a hoe'	'จอบ'
/ tshe 3 th 5 3 na 5 /	'to be sick'	'ป่วย,ไม่ဆบาย'

à

/ tsha 3 70 1 /	les ausual	(100)
/ ta d 3 l p 1/ / ta h 2 l p 1 c 5 /	'to guess'	'เภา' 'น่าแฝด'
	'twins'	
/ ts <sup>h</sup> o 1 mjã 5 /	'name'	でも*/ 
/ 5 i t b h 2 i	'to be stingy'	ขีเทนียว' <
/ uh 3 3 /	'waterfall'	'น้าตก'
/ u <sup>h</sup> o 3 ?a 1 /	'to jump'	ำกระโดด'
/ tsh o a la 5 % 1 /	'to spring up'	'ໂມຄ່'
/ ts <sup>h</sup> o 3 du 5 /	'sugar pea'	'ກັ່ງລັ້ນເຫາ'
/ tsh 3 du 5 ma 2 /	'sweet pea'	′ถั่วลั้นเตาใหญ่′
/ tsh	'to be startled, to be surprise	:d' 'แปลกใจ'
/ th 3 3 pu 1 2a 1 lo 5 /	'cobra'	<i>ู</i> งูเท่า
/ ts h s 3 ts w 4 /	'ginger'	To'
/ g h o 3 g o 5 2 o 1 /	'to hop'	'กระโดดข้าม'
/ ts h	'crazy'	'งุ่มง่าม'
/ ቴ <sup>h</sup> ၁ 5 ha 3 /	'person'	'ዾπ'
/ tsho 5 ha 3 du 3 xõ 3 /	'a grave'	'ทลุมฝั่งศพ'
/ ts ha 3 jo 1 ts 2 /	'a cripple'	, <b>๒</b> ๓๚ูบาร,
/ ts <sup>h</sup> o 5 ha 3 t <sup>h</sup> i 4 bjữ 5 /	'a group of people'	,ບຜູ່ກພກ,
/ は <sup>h</sup> o 5 mo 3 /	'elder'	<b>.</b> พแบ่พนฒ่า.
/ 1 62 1 3b 1 4z 5 d 3u 1 de 1 29 1 /	'to rob'	'ปลับ'
/ は <sup>h</sup> o 5 dʒə 3 /	'tribe,language'	'ແກ່,ການາ'
/ 4 <sup>h</sup> ɔ̃ 5 /	'to hug'	'กอด'
	/ <b>\$</b> /	
/ ti 1 do 4/	'matches'	<sup>,</sup> ไม่ชิดไฟ <sup>,</sup>
/ tri 3 mje 4 /	'goat'	'แพะ'
/ tre 3 % 1/	'to rub the nose'	'ชยิ้จมูก' 💉
/ tre 3 2u 1 k <sup>h</sup> u 3 ma 3 /	'a glass'	<i>า</i> แก้วน้ำ
/ tre 4 % 1 /	'to scrub'	'ขัดพื้น'
/ tre 1 % 1 /	'to run'	Źv
/ te 1 bjã 1 20 1 /	'to leave'	'จากไป'
/ tre 1 za 3 2 1/	'to avoid being seen, to keep	out of sight' "ทลบซ่อน"
/ tre 5 le 4 /	'cymbals or small cup-shape	
		•

/ tra 1 /	'machine'	,เษารูอาธภาพุ	
/ tra 1 pi 5 tra 5 no 4 /	'one type of a catterpillar (in	cow's dung'	
	- '6	ก้วงปีกแข็งชนิดหนึ่งขอบอยู่ในขี้วัว	
/ tra 1 pø 2 /	'navel'	'ជះពី១'	
/ ta 1 phø 3 /	'navel of animal'	'ฆะดีอของฆัตว์'	
/ tra 1 th 5 3 /	'the umbilical cord'	'ជាខ្លួយស្គី០'	
/ tra 1 th t 3 /	'a knot'	'ເຈື່ອແປນ'	
/ tpa 4 hữ 1 /	'hair (body)"	.ลเกมาที่มูว,	
/ tea 4 hữ 1 te <sup>h</sup> o 3 t <sup>h</sup> u 5 t <sup>h</sup> u 5 2ə	1 / 'to have the hair standing	on end as when	
	frightened'	<sup>เ</sup> ขนลุกชันเพราะตกใจ <sup>,</sup>	
/ 1 es 2 is 1 cap /	'to have a harelip'	'ปากแหว่ง' 🧹	
/ to 4 ne 5 /	'quiet'	'ເຈີຍນ'	
/tpu 1 20 1 /	'to suck,to beset,to plague'	'ลูด'⁄	
/tru 3 2= 1 /	'to kiss'	<b>'ຈູ</b> ປ'	
/ teu 4 nu 1 xo 4 /	'this year'	'บีนี้'	
/ tpø 1 20 1 /	'to bump into'	'กระแทกเข้าไป'	
/ ¢ <sup>h</sup> /			
/ tc <sup>h</sup> i 1 ?ə 1 /	'to hang up, to lift'	'แขวนขึ้นไว้,ยก'	
/ th <sup>h</sup> i 3 th <sup>h</sup> a 3 /	'embric'	'มะขามป้อม'	
$/ \mathfrak{p}^{h}$ i 5 ha 3 /	'barking deer'	'เท้ง'	
/ φ <sup>h</sup> ε 1 2  1 /	'to fight each other'	'ต่อผู้กัน'	
/ \$\psi^he 1 dza 3 20 1 /	'to quarrel'	'ทะเลาะ'	
/ \$\psi^h \varepsilon 3 mio 4 /	'Hmong people'	'คนมัง'	
/ 15 <sup>h</sup> e 3 p <sup>h</sup> je 3 20 1 /	'to rip,to tear'	<b>'</b> ฉีกขาด'	
/ tp <sup>h</sup> e 5 20 1 /	'to pickle'	'ଉච୍ড'	
/ ½ cd 5 3 5 /	'rice plant'	'ต้นข้าว'	
/ \$ <sup>h</sup> e 5 bjű 5 /	'a stack of grain'	'กองข้าว'	
/ \$\psi^he 5 di 3 ?3 1 /	'to thrash'	'ตีข้าว' 🗸	
/ \$\psi^h \varepsilon 5 k h \varepsilon 5 /	'unhusked rice'	ข้าวเปลือก'	
/ \$he 5 le 3 tsa 2 /	'a rice mill'	โรงมีทัก' 🗸	
/ \$\psi^h ε 5 mə 2 /	'flour'	'แป๊ง'	
/ w <sup>h</sup> ε 5 nữ 5 /	'an ear of rice'	<b>'จบูกข้าว'</b>	

/ เมื่อ 5 p nju 5 / 'milled rice' 'mักตรร'  / เมื่อ 5 s i 3 / 'unhusked rice' 'mักเปลือก'  / เมื่อ 5 เมื่อ 5 du 3 วิล 1 mo 5 / 'weevil' 'ตักบอดโนชัก'  / เมื่อ 5 เมื่อ 5 กน 2 / 'rice grains' 'เมล็ดหัก'  / เมื่อ 5 เมื่อ 5 กน 2 / 'granary' 'ผู้เห็ก'  / เมื่อ 5 เมื่อ 5 วิล 5 วิล 1 / 'to winnow' 'ผู้เครื่าว'  / เมื่อ 3 วิล 3 วิล 3 / 'bow' 'ผูกดอก'  / เมื่อ 3 วิล 3 วิล 1 กล 1 / 'anur'  / เมื่อ 3 โล 3 / 'cotton wool' 'เมื่อ 'หาย'  / เมื่อ 3 เมื่อ 1 วิล 1 / 'to whistle' 'ผู้มีหาที่ ได้  / เมื่อ 3 เมื่อ 1 วิล 1 / 'to speak or sing in traditional way'  / เมื่อ 5 เมื่อ 5 เมื่อ 5 เมื่อ 1 / 'the little finger' 'นักต้อย'  / เมื่อ 5 เมื่อ 1 วิล 1 / 'to help' 'ช่วย'
/ ໝ້າຣ 5 ໝ້າຣ 5 du 3 la 1 mo 5 / 'weevil' 'ຫັນເອດຄົນເຫັດ' / ໝ້າຣ 5 ໝ້າຣ 5 nu 2 / 'rice grains' 'ເມດິດຫັດ' / ໝ້າຣ 5 dai 5 / 'granary' 'ຜູ້ເຫັດ' / ໝ້າຣ 5 za 5 za 5 la 1 / 'to winnow' 'ຜິດຫັດ' / ໝ້າລ 3 ໝ 3 / 'bow' 'ໝາຄວກ' / ໝ້າລ 3 bia 1 bia 1 / 'akind of food equivalent to Thai dish [la:p]  'ໝາບ' / ໝ້າລ 3 ໝ້າລ 5 ໝ້າລ 5 la 1 / 'to whistle' 'ຜົນປກ' / ໝ້າລ 3 ໝ້າລ 5 ໝ້າລ 5 la 1 / 'to speak or sing in traditional way'  - ໝາດ, ຮ້ອນເພລນເປີນກຳແອນໂບລາດແ ** / ໝ້າລ 5 ໝ້າລ 3 / 'the little finger' 'ບັກຄ້ວຍ'
'rice grains' 'ເມດິດທັກ' 'phe 5 d3i 5 / 'granary' 'ຍັກັກ' 'to winnow' 'ລັດທັກ' 'the 5 za 5 za 5 to 1 / 'to winnow' 'ລັດທັກ' 'the 3 to 3 / 'bow' 'ລຸກດາວກ' 'the 3 bja 1 bja 1 / 'a kind of food equivalent to Thai dish [la:p] 'ການ' 'the 3 la 3 / 'cotton wool' 'ລັກຍ' 'the 3 zi 1 zi 1 to 1 / 'to whistle' 'ລັກປກ' 'to speak or sing in traditional way' 'phe 5 the 3 / 'the little finger' 'ບັກ້ອຍ'
' ໝ <sup>h</sup> e 5 dʒi 5 / 'granary' 'ຍຸ້າກາ' 'ໄດ້ກາງ' 'ໄດ້ກາງ ໄດ້ກາງເປັນກາດເພື່ອກາງເປັນກາດເພື່ອກ່ານຄຸ້າ ກາງເປັນກາດເພື່ອກ່ານຄຸ້າ ກາງເປັນການຄຸ້າ ການຄຸ້າ ກາງເປັນການຄຸ້າ ກາງເປັນການຄົນການຄົ້າ ກາງເປັນການຄົ້າ ກາງເປັນການຄົ້າ ການຄົ້າ ກາງເປັນການ
/ ซ <sup>h</sup> e 5 za 5 za 5 วิล 1 / 'to winnow' 'ผีตข้าว' / ซ <sup>h</sup> a 3 ฬ 3 / 'bow' 'ฉูกดอก' / ซ <sup>h</sup> a 3 bja 1 bja 1 / 'a kind of food equivalent to Thai dish [la:p] / ซ <sup>h</sup> a 3 la 3 / 'cotton wool' 'ผ้าย' / ซ <sup>h</sup> a 3 ซ <sup>h</sup> a 5 ซ <sup>h</sup> a 5 วิล 1 / 'to whistle' 'ผ่าปาก' ' / ซ <sup>h</sup> a 3 zi 1 zi 1 วิล 1 / 'to speak or sing in traditional way' / ซ <sup>h</sup> a 5 ซ <sup>h</sup> a 3 / 'the little finger' 'นักก้อย'
'bow' 'ຈຸກຄອກ' 'tha 3 ¼ 3 / 'bow' 'ຈຸກຄອກ' 'a kind of food equivalent to Thai dish [la:p ] 'ໝາບ' 'tha 3 la 3 / 'cotton wool' 'the' 'tha 3 tha 5 tha 5 ?ə 1 / 'to whistle' 'ໝາໄກ' 'tha 3 zi 1 zi 1 ?ə 1 / 'to speak or sing in traditional way' 'ໝາກຸ້ວຍເພລະເປັນການ * 'ໝາກຸ້ວຍເພລະເປັນການ ອີ
່າການ'  / ໝ້າລ 3 la 3 / 'cotton wool' ຜ້າຍ'  / ໝ້າລ 3 ໝ້າລ 5 ໝ້າລ 5 7ລ 1 / 'to whistle' ຜົກປາກ'  / ໝ້າລ 3 zi 1 zi 1 7ລ 1 / 'to speak or sing in traditional way'  / ໝ້າລ 5 ໝ້າລ 3 / 'the little finger' ຜົກຄ້າຍ'
/ ໝ <sup>h</sup> a 3 la 3 / 'cotton wool' 'ຜ້າຍ' / ໝ <sup>h</sup> a 3 ໝ <sup>h</sup> a 5 ໝ <sup>h</sup> a 5 າລ 1 / 'to whistle' 'ຜົນປາກ' / / ໝ <sup>h</sup> a 3 zi 1 zi 1 າລ 1 / 'to speak or sing in traditional way' / ໝ <sup>h</sup> a 5 ໝ <sup>h</sup> a 3 / 'the little finger' 'ພັລກັບຍ'
/ tha 3 tha 5 tha 5 วอ 1 / 'to whistle' 'นักปกก' / / tha 3 zi 1 zi 1 วอ 1 / 'to speak or sing in traditional way'  'พูด,ร้องเพลงเป็นท่านองโบราณ' * / tha 5 tha 3 / 'the little finger' 'นักกัอย'
/ ซ <sup>h</sup> a 3 zi 1 zi 1 วิจ 1 / 'to speak or sing in traditional way' "พูด,ร้องเพลงเป็นกำนองโบราณ" ** / ซ <sup>h</sup> a 5 ซ <sup>h</sup> a 3 / 'the little finger' นั่วก้อย'
"พูด,ร้องเพลงเป็นท่านองโบราณ" $\div$ / ซ <sup>h</sup> a 5 ซ <sup>h</sup> a 3 / 'the little finger' นั้วก้อย'
/ the little finger' Tinhou
'to help' 'v'st' / 1 ex 1 ad 1 c <sup>d</sup> v'
ינאשׁי 'friend' 'אַפֿע'
'to persuade' 'to $c^d x$ 'to
/ ซ <sup>h</sup> วี 1 ว่อ 1 / 'to walk' 'เดิน'
/ th 5 3 / 'a top' 'anin'
/ th 3 le 3 / 'a joss stick' 'ol' ~
/ the 3 20 1 / 'to be unsteady (in walking), to stagger' ເດັນໂຕເຕ
/ ໝ 1 ?ຈ 1 / 'to absorb water,to inhale 'ຫຼຸດ'
/ ซ <sup>h</sup> u 1 20 1 / 'to raise the animals' 'เกียงตัดว์'
/ thu 5 de 3 / 'a peacock' 'unew'
/ the 3/ 'dew' 'tinho'
/ the 3 re 1 / 'to sneeze, to praise' 'nu'
/ x <sup>h</sup> ø 3 pε 2 / 'sputum' 'ισυνε'
/ ច្ <sup>h</sup> ø 3 ye 2 29 1 / 'to leap' 'nɔะโดต'
/ the same to to be able to with the same of the same

## 1 tsh 1

/ tʃʰi 1 20 1 / 'to urinate'' 'ປັກສາກະ

/ tj <sup>h</sup> i 3 /	'blood'	'เฉียด' .
/ tʃʰi 3 do 1 le 5 ?ə 1 /	'to bleed'	'เลือดออก'
/tshi 3 bw 5 15 1 ma 2 /	'hell'	'USN'
/ tʃʰi 4 /	'seven'	<b>'7'</b> ✓
/ tʃʰi 4 tsʰe 5 /	'seventy'	<b>'70'</b>
/ tʃʰi 4 tsʰe 5 ŋa 3 /	'seventy-five'	<b>'</b> 75'
/ tʃʰi 4 tsʰe 5 ti 4 /	'seventy-one'	′71′
/tʃʰi 5 ʔə 1 /	'to die'	'one'
/tʃʰɛ 1 ?ə 1 /	'to pour'	'เท,ราด'
/tshe 1 mo 5/	'lice'	'เทา'
/ tʃʰε 5 tʰi 4 xo 4 /	'a name of the traditional ye	ars called by the name
	of an animal [ $t_{j}^{h} \epsilon^{55}$ ]	'ตัวแชะ'
/ tʃʰa 3 ?ə 1 /	'true'	<b>'จริง'</b>
/tJ <sup>h</sup> a 3 bje 2 /	'minced meat'	'เนื้อฉับ,แทนบ'
/ tha 3 do 5 do 5 a 1 /	'to be shy'	'อาย'
/ tsha 3 jø 3 /	'bone'	'กระดูก'
/ tʃʰa 3 ku 3 /	'blood vessels'	'เฆ้นเถือด'
/ tʃʰa 3 kʰɔ̃ 5 /	'ligament'	′ີພິວ'
$/ t \int^h a 3 na 2 /$	'a mole on the skin'	√Id₁
/ tyha 3 po 4 /	'lung'	'ปอด'
/tʃʰa 3 pʰja 3 /	'thigh'	'ช้าแหา'
/ tʃha 3 the 5 /	'a chopping block'	'เขียง'
$/ tJ^ha 3 zo 4 /$	'sticked skewer'	'ไม้สำหรับเฉียบย่าง'
/ tha 3 th 3 3 /	'liver'	'ตับ' /
/tJha 3 tshi 3/	'pustule'	'້ນີ້ວ'
/tsha 3 tsha 1 tshu 5 tshu 5/	'orchid'	'ดอกกลัวยไม้'
/tJha 3 dzi 5/	'meat'	'เพื้อ'
/ $\mathfrak{t}^{h}$ a 3 d3i 5 jo 1 ba 2 /	'white skin'	'ผิวขาว'
/t $^h$ a 3 d3i 5 ma 3 $^h$ 5 5 /	'dark skin'	'ຝົນດຳ'
/ tʃha 5 % 1 /	'to entreat'	<b>'3.</b> ' <sup>'</sup>
/ tyho 5 i 5 i 5 i 7 i 1 /	'to have colour fade'	′សី៧៧′ 🗸
/tsh5 3 bja 1 bø 5 lø 5 /	'soap's bubble'	. พองชกุ๋,
/ tsh5 3 bja 1 lø 5 /	'powdered detergent'	, ตงผูบพอบ,
/ ts <sup>h</sup> 5 3 bja 3 /	'soap'	'សប៉ូ'

/ tʃʰű 1 kʰɔ̃ 5 /	'wire'	<b>'</b> മാമ'
/ tʃħű 5 /	'iron'	'เหล็ก'
/tshũ 5 de 4/	'a magnet'	'แม่เหล็ก'
/ tʃħű 5 kʰɔ 2 /	'rust'	,ស្បារ,
/ tʃʰū̃ 5 kʰw 5 /	'tripod'	'lon 3 111'
/tshu 5 se 3/	'nail'	'ຫະປູ່'
/tshu 5 to 1 to 1 20 1/	'to forge iron'	'ตีเหล็ก'
/tʃhữ 5 tpa 2/	'a chain'	<b>'</b> [&'
/ tshu 5 /	'gold'	′ກອບ′
/ tʃhə 1 /	'a log, timber'	'ท่อนไม้,ซุง'
/tʃʰø 3 xo 3 2ə 1 ga 3 /	'creditor'	'เจ้าหนึ่'

## / d3 /

/ dʒi 5 ?ə 1 /	'to finish'	'จบ,เสร็จ'
/d3i 5 ba 3 /	'liquor'	'เทล้า'
/d3i 5 ba 3 dw 5 % 1 /	'pickled whisky'	'ดองเหล้า'
/dʒi 5 tp <sup>h</sup> u 1 /	'all'	′กั้งหบด′
/dʒe 1 2 1 /	'to blow the nose, to clean (th	e table,the floor)" ชยังมูก,ขัดโต๊ะ,ขัดพีน
/dʒe 3 bjã 1 29 1 /	'to erase'	' <b>ស</b> ប'
/ dʒe 3 bjã 3 je 3 /	'a rubber'	'ยางลบ'
/dʒe 3 dữ 5 ma 3 /	'Keng Tung'	'เมืองเชียงตุง'
/dʒe 3 ka 3 2 1 /	'a middle man'	'พ่อค้า'
/dʒe 3 za 3 ku 2 /	'a sty (for animals),a stable'	'เล้าหมู,คอก'
/d3e 1 % 1 /	'to shave,to scrape'	'โกนทนวด'
/dza 1 2  1 /	'to be exist (inanimate), to tell	' 'มีอยู่(สิ่งไม่มีชีวิต),บอก
/daa 1 bo 3 /	'hair'	<b>'an'</b> /
/d3a 1 bo 3 jo 1 p <sup>h</sup> ju 5 /	'the hair when it has turned	silver grey' 'www.on'
/d3a 1 ga 3 /	'medicine'	'EN'
/dza 1 ga 3 2i 5 tcu 4 /	'liquid medicine'	'ยานั้ก'
/d3a 1 ga 3 2a 5 si 3 /	'a tablet'	'ຍາເນົດ'
/dza 1 ga 3 dw 5 2ə 1 /	'tincture'	'ทิงเจอร์'
/d3a 1 ga 3 p <sup>h</sup> i 5 /	'mentholated ointment'	'ยาขม'