Outline of Phonology of Lhaovo(Maru) of Kachin State

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1 Introduction

Lhaovo(Maru)[1] is the name of an ethnic group living in Kachin State and Northern part of Shan State in Union of Myanmar (formerly Burma), and *Déhóng* Dai-Jinghpaw Autonomous State in Yunnan Province, People's Republic of China.

The population of Lhaovos in China is 5000[2] and that in Myanmar is about 100,000.[3]

Lhaovo is considered to be a member of larger ethno-cultural group called "Kachin", together with neighbouring Jinghpaw, Lacid(Lashi), Zaiwa(Atsi) etc.

Linguistically, Lhaovo belongs to "Burmish" languages, together with Lacid, Zaiwa, Ngochang spoken in *Déhóng*, and all dialects of Burmese. Lhaovo is nearer to Burmese than Jinghpaw, the language of majority in "Kachin" ethno-cultural group.

In January and December 1997 and November 1998, I did research on Lhaovo language in Myitkyina, capital of Kachin State for about 20 days each time. Based on the research, I will present the outline of the phonology of Lhaovo spoken in Myitkyina.[4]

2 Syllable Structure

The syllable structure of Lhaovo is:

$$(C)V(F)/GT^5$$

C = Initial Consonant   G = Glottalizedness Feature[±Glottalized]
V = Vowel   T = Toneme
F = Final Element

3 Initial Consonants

The initial consonant phonemes are:

		LABIAL	DENTAL	ALVEOLAR	PALATAL	VELAR	GLOTTAL
NASAL		m		n	ñ	ŋ	
STOP/ AFFRICATE	*unasp.* *aspirated*	p ph	ts tsh	t th	c ch	k kh	
FRICATIVE		f,v	s		š	x,ɣ	ɦ
LATERAL				l			
FLAP				r			
APPROXIMANT					y		

Labial:

/m/ Labial nasal [m]

*mauk*F "hat, cap"   *nat*H *mauy*L "beard"   *mau*H "job, work"
*mauŋ*F⁶ "ogre, devil"   *ămo*H "female"   *maŋ*H "to get ripe"

/p/ Unaspirated voiceless labial stop [p]

*pap*F "to be rotten"   *pin*L *pu*H "flower"   *po*H "to be bright"
*po*F "to embrace"   *po*L "to be thin"   *pe*H "what"

/ph/ Aspirated voiceless labial stop [pʰ]

*phoŋ*F "to avoid"   *yoŋ*L *pha*L "nephew, niece" *ăpho*H "father"
*tăkhyeŋ*L *tăpho*F "part"   *ăphauy*L "powder"   *phuŋ*H "to open"

/f/ Voiceless labiodental fricative [f]

*fin*F "to send (letter etc.)"   *fak*H "pus"   *ăfoʔ*H "leaf"

/v/ Voiced labiodental fricative [v]

*voʔ*F "pig"   *veʔ*F *vo*L "condition"   *vaŋ*H "to approve"
*vo*F "village"   *veŋ*L *tuk*L "belly"   *vaŋ*H *kham*L "gate"

Dental:

/ts/ Unaspirated voiceless dental affricate [ts]

*tsaŋ*F "drum"   *tso*L "to eat"   *tsoŋ*H "to touch"
*khă tsu*F "prawn"   *khyit*F *tsauŋ*L "boots"   *tsap*H "to grasp"

/tsh/ Aspirated voiceless dental affricate [tsʰ]

*tsham*F "mortar"   *tsho*L "salt"   *tshoʔ*H "to connect"
*tshe*F "ten"   *auŋ*L *tshan*L "goods"   *tshuk*H "to be old"

/s/ Voiceless Dental fricative [s]

*sam*F "three"   *saŋ*L "liver"   *sak*H "tree"
*sauŋ*F *so*F "wheat"   *ăso*L "mark"   *sat*H "to wipe"

Alveolar:

/n/ Alveolar nasal [n]

*nuk*F "to want to"   *no*L "ear"   *na*H "day"
*nǫ*F "nose"   *nǫ*L "to be few"   *nat̲*H "seven"

/t/ Unaspirated voiceless alveolar stop [t]

*ta*F "one"   *tøm*L "to push"   *taŋ pauŋ*F "river bank"
*tøm*F "to howl, sing"   *tǫŋ*L "to run"   *to*H "to stand"

/th/ Aspirated voiceless alveolar stop [tʰ]

*thau*F "to be thick"   *ăthay*L "bottom"   *ăthoʔ*H "above"
*thin*F "mat"   *thaŋ*L "bracelet"   *thuk*H "to go out"

/l/ Alveolar lateral [l]

*loʔ*F "hand"   *la*L "to be heavy"   *li*H "to come"
*lǫŋ vo*F "Lhaovo"   *le̲*L "to be bold"   *le̲ʔ*H *chat*H "lightening"

/r/ Alveolar frap [ɾ]: It seems to occur only in particles and borrowed words.

-*ru*F "the thing which"   -*re*F "THEME"   -*ru*L "like, as"
*tăra̲*H "law"   -*ra*H "SENTENCE CONSTRUCTOR: REALIS"

Palatal:

/ñ/ Palatal nasal [ɲ]

*ăñuk*F "green"   *ña̲m*L "to hide"   *ăñi*H *ne̲ʔ*H "yesterday"
*ña̲m*F "to be low"   *ñe̲ŋ*L "to pinch"   *loʔ*F *ñu̲k*H "finger"

/c/ Unaspirated voiceless palatal affricate [tʃ]

*cat*F "to be torn"   *cam*L "to be raw"   *ăcit*H "seed"
*ci̲n*F "to be sour"   *cǫŋ*L "to lie down" *ca̲p*H "to suck"

/ch/ Aspirated voiceless palatal affricate [tʃʰ]

*chin*F "rice"   *cha*L "to be necessary" *chat*H "to tear"
*chuk*F "to be sweet"   *chø*L "waterfall"   *choʔ*H "navel"

/š/ Voiceless palatal fricative [ʃ]

*šo*F "tongue"   *šo*L "meat, fresh"   *šauk*H "to drink"
*šit*F "to die"   *ăši*L "fruit, nut"   *šat*H "to be wrong"

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/y/ Palatal approximant [j]

*yap*F "to sleep"	*yoŋ*L "he, she"	*yauŋ*H "to be beautiful"
*ya̱m*F "house"	*yo̱ŋ*L "to be slender"	*yi̱t*H "urine"

Velar:

/ŋ/ Velar nasal [ŋ]

*ŋo*F "I"	*ŋo*L "fish"	*ŋo*H "five"
*ŋi̱n*F "to stop (raining)"	*ŋo̱*L "to lend, to borrow"	*ŋo̱ʔ*H "bird"

/k/ Unaspirated voiceless velar stop [k]

*kauŋ*F "body"	*kăkay*L "really"	*coŋ*L *kau*H "valley"
*ăka̱uŋ*F "branch"	*ka̱y*L "great-grandfather"	*ăko̱ʔ*H "twig"

/kh/ Aspirated voiceless velar stop [kʰ]

*tă-khøm*F "one word"	*lăkha*L "dog"	*khay*H "to freeze"
*khau*F "to bring up"	*khaŋ*L "tax"	*khuk*H "cup"

/x/ Voiceless velar fricative [x]

*xin*F "to hurry"	*xau*L "garlic"	*xuk*H "to blow"
*xa̱ŋ*F "to be long"	*lăxø*L "snail"	*xi̱t*H "front"

/ɣ/ Voiced velar fricative [ɣ]

*ɣit*F "water"	*ɣuk*L "bone"	*ɣu*H "to look at"
*ɣoʔ*F "cock, hen"	*ɣi*L "to be big"	*veʔ*F *ɣeŋ*H "youth"

Glottal:

/ɦ/ Voiced velar fricative [ɦ]: It seems to occur only in particles and onomatopaeic words.

*-ɦa*F "CONSTRASTIVE"	*ɦa*L *xam*H "yawn"
*-ɦaʔ*F "SENTENCE CONSTR.: IMPERATIVE"	*-ɦeʔ*H "and, with"

Below are examples of syllable containing neither of the initial consonants given above, that is, syllable of V(C) type:

*o*F "below"	*oŋ*L "mustard"	*auk*H *la*F "storm"
*eŋ*F *thoŋ*F "chin"	*thauŋ*F *a*L "bag"	*uk*H "pot, jar"

4   Medial Consonant

The only medial consonant of Lhaovo is /-y-/. It clusters with initial /m-, p-, ph-, k-, kh-/.

Examples of initials + medial -y-:

/my/

*myo*ŋF "to see"	*myo*L "arrow"	*myan*H *thø*F "language"
*myo̲*ŋF "to be high"	*may*F *myu̲u*ŋL "guilt"	*myi̲t*H "to forget"

/py/

*pye*ŋF "to jump"	*pyo*L "bee"	*pya*ŋH "to be full"
*pya̲*ŋF "to order"	*pyit*L "to give"	*pyi̲t*H "to close"

/phy/

*phyu*F "to be white"	*no*F *phyo*L "fever"	*phyo*ʔH "to destroy"
*phyat*F "to be fast"	*phyo*ŋL *myu̲u*ŋL "mat"	*phyit*H *tam*L "waist"

/ky/

*kyay*F "very"	*ăkyo*L "between"	*kyo*H "to fall"
*kyo̲*ŋF "mosquito"	*to*ŋL *kyo̲*L "big basket"	*kya̲u*kH "to be dry"

/khy/

*khyit*F "foot"	*khyau*ŋL "throat"	*khyauk*H "six"
*khyo*F "road"	*pa*F *khyi*L "tomato"	*khyat*H "to remove"

5 Vowels

There are seven vowel phonemes.

	FRONT	CENTRAL	BACK
CLOSE	i		u
MID	e	ø	o
OPEN		a	au

/a/ [ʌ]

*pa*F "to know"	*va*L "to be far"	*ăna*H *ne*ʔF "today"
*la̲*F "boat"	*pa̲*L "field"	*ta̲*H "to tell"

/au/ [au]

*tau*F "to suit, fit"	*pau*L "jacket"	*nau*H "to be soft, young"
*la̲u*F "to play (a trick on)"	*ta̲u*L *kap*L "tortoise"	*ta̲u*H "to compare"

The reason why [au] is treated as the realization of single vowel phoneme /au/ is the cooccurence of it with final elements /-k/,/-ŋ/. Other phonetic diphtongs can never cooccur with any final elements, except in borrowed words.

/e/ [e]

*kye*F *cu*F "benefit"	*myĭɣe*L "girl"	*tuŋ*H *che*H "letter"
*kauŋ*F *tse*F *ši*L "betel"	*pye*L "comb"	*le*H "INTERJECTION"

/ø/ [ø–øĭ]

*thø*F "sound"	*khyø*L "to be feeble"	*cø*H "to reach"
*pø*F "festival"	*sø*L "bottle"	*pø*H "to arise, become"

/o/ [o]

*yo*F "farmland"	*tso*L "son"	*khyo*H "to drop"
*pyo*F "to spread"	*xo*L "to plant"	*mo*H "to teach"

/i/ [ɪ]

*ɣi*F "to laugh"	*myi*L "fire"	*myi*H "night, evening"
*kyi*F "star"	*ñi*L "penis"	*ămyi*H "mother"

/u/ [u]

*yu*F "to take"	*lăkhu*L "cucumber"	*pu*H "to bloom"
*cu*F "bell"	*caŋ*L *ku*L "pumpkin"	*xu*H "to show"

6 Final Consonants

Final elements of a syllable are /-y, -ŋ, -k, -ʔ, -n, -t, -p, -m/.
It is not the case that all combinations of a vowel and a final element are possible.

	a	au	e	ø	o	i	u
-y	ay	auy	ey				uy
-ŋ	aŋ	auŋ	eŋ		oŋ		uŋ
-k	ak	auk					uk
-ʔ	aʔ		eʔ	øʔ	oʔ		
-n	an					in	un
-t	at					it	ut
-m	am			øm			
-p	ap						

Rhymes with final -y

/ay/,/uy/,/auy/,/ey/ are realized as phonetically diphtongs. Yet we treat them as the combination of vowel + final element /-y/, contrary to /au/ as single phoneme, because there's no final element which follows /ay/,/uy/,/auy/,/ey/.[7]

/ay/ [aĭ–ɛ]

*vay*F "to buy" | *pay*L *ceʔ*L "duck" | *nay*H "to be slow, late"
*ɣoʔ*F *au*H *lay*F "fried egg" | *nay*L "rubber" | *tsam*F *thoŋ*F *may*H "stairs"

/auy/ [auĭ–ɔĭ]

*nauy*F "vine" | *tsauy*L "to do, work" | *nauy*H *tso*L "small basket"
*kauy*F "to bend, be curved" | *tauy*L "rope" | *ŋauy*H "to sing"

/ey/ [əĭ] Very rare, only in onomatopae and interjections. We have only one example.[8]

*ey*H *ey*H "stammering sound"

/uy/ [uĭ–ʉ(ĭ)]

*yuy*F "God" | *phyit*H *cuy*L "belt" | *xuy*L "to move something"
*ɣoŋ*L *tuy*F "sweet potato" | *ɣuy*L "to move" | *ɣuy*H "slaver, saliva"

Rhymes with final -ŋ

/aŋ/ [aŋ]

*myaŋ*F *kha*L "tiger" | *kaŋ*L "to be strong, firm" | *šaŋ*H "to be tired"
*ălaŋ*F "turn" | *ɣit*F *kaŋ*L "pitcher, water jug" | *ñaŋ*H "to repair"

/auŋ/ [auŋ]

*mauŋ*F "brother" | *auŋ*L "to sell" | *tsauŋ*H *yauk*F "guard"
*pauŋ*F *sin*F "thigh" | *cauŋ*L *moʔ*H "to pray" | *ŋănauŋ*H "we"

/eŋ/ [ẽ]

*veŋ*F "bear" | *neŋ*F *cheŋ*L "rib" | *meŋ*H "from"
*xeŋ*F "flying squirrel" | *neŋ*L *mo*H "younger sister" | *nau*H *neŋ*H "to be gentle"

/oŋ/ [õ]

*tsoŋ*F "hut" | *myoŋ*L "horse" | *long*H *co*H "clam"
*noŋ*F "to make someone do" | *moŋ*L *muk*L "roof" | *coŋ*H "to (someone)"

/uŋ/ [oŭŋ]

*muŋ*F "to happen" | *nuŋ*L *cauŋ*F "bull,cow,ox" | *muŋ*H "country, nation"
*myuŋ*F "mist" | *ŋuŋ*L "to lose one's way" | *tuŋ*H "to write"

The phonetically diphtong [oŭ] is a realization of phoneme /u/.

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Rhymes with final -k/-ʔ

/-k/ cooccurs with vowel /a/,/au/,/u/; and /-ʔ/ cooccurs with /a/,/e/,/ø/,/o/. That is, /-k/ and /-ʔ/ stand in opposition only after /a/.

/ak/ [ak]

*cak*F "machine"	*kyĕlak*L *lak*L "to fight"	*ătshak*H "joint"
*t̠ak*F "to think"	*k̠oŋ*F *kak*L "prop"	*n̠ak*H "mind, heart"

/aʔ/ [aʔ]

*paʔ*F *chat*F "shawl,towel"[9]	*phaʔ*F *c̠i*H *khyo*F "education"[11]	*pya̠ʔ*H *tsat*H "drama"[12]
*paʔ*F "to bear on one's back"[10]	*laʔ*F "INTERROGATIVE"	*chaʔ*H "to hate"

The occurrence of /aʔ/ is almost restricted to particles, onomatopaes (e.g. *šaʔ*F *šaʔ*F "ONOMATOPAE", or words borrowed from Burmese, Jinghpaw, etc. The only exception in my data is *chaʔ*H "to hate".

/auk/ [auk]

*kyauk*F "to fear"	*au*L *nauk*L "brain"	*chauk*H *am*F "hip"
*ăña̠uk*F "summit, top"	*phauk*H *vo*F "Jinghpaw"	*tu̠ŋ*H *pa̠uk*H "book"

/eʔ/ [eʔ]

*seʔ*F "to kill"	*tsŏleʔ*L "second son"	*tsheʔ*H "sambur"
*kau*H *t̠eʔ*F "to cross"	*šeʔ*H "eight"	*ŋe̠ʔ*H "needle"

/øʔ/ [øʔ]

*pøʔ*F "to rub"	*møʔ*L "to be hungry"	*khøʔ*H *chøm*L "mattock"
*køʔ*L *ma̠uk*F "to overturn"	*phøʔ*H "to take out"	*ŋø̠ʔ*H "to cover"

/eʔ/ and /oʔ/ below have their counterparts with nasal final /eŋ/ and /oŋ/ respectively. But /øʔ/ has no such counterpart.[13]

/oʔ/ [oʔ]

*noʔ*F "to be deep, dark"	*ŋoʔ*F *myauk*F "banana"	*choʔ*H *vo*L "chisel"
*coʔ*F "to exist"	*soʔ*H "breath"	*x̠oʔ*H "to be ashamed"

/uk/ [ŏǔk]

*kuk*F "nine"	*tay*F *tsuk*L "rich man"	*nuk*H "milk"
*ăñu̠k*F "color"	*ɣuk*L *khai*L "difficulty"	*nyu̠k*H "to wither"

As the case of /uŋ/, treat [ŏǔk] as realization of /uk/.

Rhymes with final -n

/an/ [an]

*pan*F "week"	*phan*L "to be itchy"	*pan*H "box, case"
*myan*F "Burmese"	*kyan*L "trap"	*ko*H *nan*H "to dance"

/in/ [in]

*tsin*F "year, age"	*tin*L "to be straight"	*ŋin*H "to be cold"
*kyin*F "to scratch"	*loʔ*F *pin*L "ring"	*myit*F *kyin*H "clay"

/un/ [un]

*kun*F *chauŋ*F "to be tender"	*pha*F *lun*L "mint"	*sun*H *ɣu*H "to consider"

Rhymes with final -t

/at/ [at]

*kyat*F "to paint"	*chat*H "goat"	*mat*H "dipper"
*yat*F "to reap"	*ŋoʔ*H *sat*H "nest of bird"	*kat*H "market"

/it/ [it]

*pyit*F "four"	*yit*L "to be drunk"	*šit*H "two"
*xit*F "to begin, start"	*kyit*L "copper"	*cit*H "to lend, borrow"

/ut/ [ut] We have only one example.

*thut*F "to change" [14]

Rhymes with final -m

/am/ [am]

*pam*F "mountain"	*ɣam*L "power"	*ătsam*H "pair"
*cam*F "cloud"	*cam*L "treatise, thesis"	*tam*H "to prohibit"

/øm/ [øm]

*phøm*F "to release"	*ɣøm*L "to decay"	*søm*H "to lose (a game)"
*khøm*F "heart"	*tshøm*L *ɣaŋ*L "soup"	*yøm*H "to be reduced"

Rhymes with final -p

/ap/ [ap]

*tsap*F "to wash"   *ă*ɣ*ap*F "shadow"   *khyap*H "to sew"
*nap*F "to sink"   *šap*H "to be thirsty"   *ñ*a̲*p*H "to bury"

/øm/ has no counterpart with final /-p/. [15]

7   The Feature [±Glottalized]

Lhaovo vowels show oppsition in respect with glottalizedness. For economy of description, The opposition is best treated as an independent feature [±Glottalized], rather than a part of vowel features.

[−Glottalized] Lax, sometimes breathy sound.
[+Glottalized] Tense, Creaky sound.

The feature can cooccur with all vowels, final elements and tones.

The only element which shows cooccurrence restriction with this feature is Initial phoneme. Aspirated consonant /ph,th,tsh,ch,kh/ cannot cooccur with [+Glottalized]. /s,š,f,ħ/ and zero-initial only combine with [−Glottalized]. The initial consonant phonemes cooccuring with both [+Glottalized] and [−Glottalized] are /m,n,ñ,ŋ,p,t, ts,c,k,ɣ[16],l,r,y/.

I marked vowels of [+Glottalized] syllable with ˍ. It is merely for avoiding troublesomeness in transcribing and reading Lhaovo syllables.

8   Tonemes

Lhaovo has three tonemes:

Falling(F) 21; Sometimes 32 in word-initial position followed by another F; 31 after L.

Low(L) 22–33; Always 22 in word-initial position followed by F; the end of the syllable rises a little bit before another L.

High(H) Syllables with final stop: 44; 42 in either it has a diphtong, or it is in word-initial position.

Syllables with final nasal, /-y/, or vowel: 44; 4$\widehat{4}$2 in word-final position; 34 in syllables with [+Glottalized] in word-initial position.

*lo*F "to come back"	*lo*L "anymore"	*lo*H "to go back"
*ălo̱*F "shape"	*lo̱*L "trousers"	*lo̱*H "moon, month"
*khyaŋ*F "thread"	*khyaŋ*L "to be bad"	*khyaŋ*H "sieve"
*ɣoŋ*F "to be hard"	*ɣoŋ*L "root"	*ɣoŋ*H "to get ripe"
*kham*F "to suffer"	*kham*L "door"	*kham*H "to restrict"
*au*F "bowels"	*au*L "head"	*au*H "egg"

Syllables with final stop, as well as others, show three-term opposition for tone.[17]

*muk*F "mushroom"	*muk*L "rain"	*muk*H "cake"
*myit*F "earth"	*myit*L "grandchild"	*myit*H *kay*F "great-grandchild"
*myoʔ*F *cit*F "blind man"	*cit*L "parrot"	*myoʔ*F *cit*H "eyeball"

9 Phenomena concerning toneme

9.1 Syllable Weakening

All syllables in Lhaovo are not "full" syllable. Some syllable are "weak" ones, that is, syllables without inherent toneme. A weak syllable depends on the syllable immediately following it, therefore it cannot appear in word/phrase final position. In most cases, the pitch of weak syllable is lower than the onset pitch of the syllable immediately following it. But it is not always so. Weak syllables are indicated by ˘ above vowels in this paper.

Some weak syllables are inherently weak, but some are "weakened" by syllable reduction.

An inherently weak syllable is either (i) a part of a word or (ii) a verbal prefix with grammatical function: e.g. *ă-* (deverbal nominal prefix), *mă-* (prefix forming negative statement sentences), *tă-* (prefix forming negative imperative sentences).

"Weakened" syllables are often found in noun compounding. Some monosyllabic nouns originally with inherent toneme are reduced to lose it, when they appear as a first element of compound noun consisting of two elements. But it is not the case that such a syllable reduction always happens in noun compounding.

*ta*F "one"	:	*pyu*F *tă-yauk*F "a person", *tă-yo*F "one hundred"
*su*F "man"	:	*sŭko*F "dumb", *sŭpyo*F "ghost"
*pyu*F "man"	:	*pyŭko*F "fool", *pyŭšit*F *p̱ø*F "funeral ceremony"
*šo*L "fresh"	:	*šŏɣit*F "skin", *šŏmuk*H "hair"
*no*L "ear"	:	*nŏcit*F "deaf", *nŏkhyeʔ*H "ear-lobe"
*ŋo*L "fish"	:	*ŋŏta̱u̱y*L "fishing", *ŋŏmya̱t*H *kyaŋ*L "fishing rod"
*tso*L "son"	:	*tsŏnau*H "child", *tsŏthoŋ*H "youngest son"
*myi*L "fire"	:	*myĭ*F *khuk*H "smoke", *myĭ*L *khyøm*H "furnace, oven"
*lo*H-*neŋ*H "will go back"	:	*lo*H-*nĕŋ-va*H-*le̱*H "good bye"

Sometimes syllable reduction goes to an extreme: the vowel other than /a/ loses its original quality and becomes /ă/.

9.2 Tonal Alternation

Lhaovo shows the phenomena of tonal alternation in particular phonological or grammatical environment. [18] The pattern of alternation are as follows:

	BASIC	HEIGHTENED
Pattern 1	Falling	Low
Pattern 2	Low	High
Pattern 3	High	High

When BASIC form has High tone, the effect of tonal alternation is vacuous.

The elements showing tonal alternation are personal nouns, demonstrative nouns, numeral "ten" and verbs.

The reason why the leftmost terms of the above table are named BASIC and the rightmost terms are named "HEIGHTENED" are simply for the economy of description. If we treated the rightmost terms as basic, for each element showing tonal alternation (especially verb), we would specify the pattern of alternation in the lexicon. By treating the leftmost terms as basic, no such specification is necessary.

Personal Noun

When a personal noun is used as determiner of a noun, it takes "heightened" form.

Pattern 1	ŋoF "I"	:	ŋoL tuŋH paukH "my book"
Pattern 2	yoŋL "he/she"	:	yoŋH tuŋH paukH "his/her book"[19]

Demonstrative noun

When a demonstrative noun is used as determiner of a noun, it takes "heightened" form. Demonstrative noun indicating place, even if it is not used as determiner of a noun, takes "heightened" form.

cheF "this one"	:	cheL tuŋH paukH "this book"	:	cheL "here"
ayF "it"	:	ayL tuŋH paukH "the book"	:	ayL "there"
thoF "that one"	:	thoL tuŋH paukH "that book"	:	thoL "there" (All are of Pattern 1)

Numeral consisting the digit "ten"

Noun of digit *tshe*F "ten" takes HEIGHTENED form when 0–9 follows it.[20]

> *tătshe*F "ten" : *tătshe*L *ta*F "eleven"(Pattern 1)

Verb

A verb takes its "heightened" form mainly in two environments below:

1. Before particles beginning with /r-/
2. Before other verbs

The verbal particles beginning with /r-/ are -*ra*H "SENTENCE CONSTRUCTOR: RE-ALIS", -*re*F "if", -*ru*F "NOMINALIZER". In the following examples, verbs with Irrealis sentence constructor (taking basic form) and those with Realis sentence constructor (taking "heightened" form) are paired.

Pattern 1	*na*F-*neŋ*H "will live, stay"	:	*na*L-*ra*H "lived, stayed"
	*c̲a̲u̲*F-*neŋ*H "will say"	:	*c̲a̲u̲*L-*ra*H "said"
	*kay*F-*neŋ*H "will be good"	:	*kay*L-*ra*H "is good"
	*tsauŋ*F-*neŋ*H "will sit"	:	*tsauŋ*L-*ra*H "sat"
	*pin*F-*neŋ*H "will finish, end"	:	*pin*L-*ra*H "finished, ended"
	*lam*F-*neŋ*H "will be warm"	:	*lam*L-*ra*H "is warm"
Pattern 2	*t̲o̲*L-*neŋ*H "will put on, set"	:	*t̲o̲*H-*ra*H "put on, set (past)"
	*ye*L-*neŋ*H "will go"	:	*ye*H-*ra*H "went"
	*p̲a̲*H-*chauŋ*L-*neŋ*H "will worship"	:	*p̲a̲*H-*chauŋ*H-*ra*H "worshiped"
	*ts̲a̲u̲ŋ*L-*neŋ*H "will put in, insert"	:	*ts̲a̲u̲ŋ*H-*ra*H "put in(past), inserted"
	*sin*L-*neŋ*H "will scatter"	:	*sin*H-*ra*H "scattered"
	*pøm*L-*neŋ*H "will notice"	:	*pøm*H-*ra*H "noticed"
Pattern 3	*k̲a̲*H-*neŋ*H "will weigh, measure"	:	*k̲a̲*H-*ra*H "weighed, measured"
	*šay*H-*neŋ*H "will be different"	:	*šay*H-*ra*H "is different"
	*khay*H-*neŋ*H "will freeze"	:	*khay*H-*ra*H "froze"
	*y̲a̲u̲ŋ*H-*neŋ*H "will boil"	:	*y̲a̲u̲ŋ*H-*ra*H "boiled"
	*ɣoŋ*H-*tsin*H-*neŋ*H "will be stout"	:	*ɣoŋ*H-*tsin*H-*ra*H "is stout"
	*t̲a̲m*H-*neŋ*H "will prevent, stop"	:	*t̲a̲m*H-*ra*H "prevented, stopped"

Tonal alternation occurs in the case of verbs with final stop, as well as with final nasal, /-y/ and vowel.

Pattern 1 *peʔ*F-*neŋ*H "will beat, hit" : *peʔ*L-*ra*H "beat(past), hit(past)"
                  *myauk*F-*neŋ*H "will be smooth" : *myauk*L-*ra*H "is smooth"
                  *pat*F-*neŋ*H "will be thick, burly" : *pat*L-*ra*H "is thick, burly"
                  *lap*F-*neŋ*H "will move" : *lap*L-*ra*H "moved"

Pattern 2 *myit*L-*neŋ*H "will ask" : *myit*H-*ra*H "asked"
                  *ɣuk*L-*neŋ*H "will be difficult" : *ɣuk*H-*ra*H "is difficult"

Pattern 3 *ñap̱*H-*neŋ*H "will bury, entomb" : *ñap̱*H-*ra*H "buried, entombed"
                  *kaṯ*H-*neŋ*H "will make, do" : *kaṯ*H-*ra*H "made, did"
                  *ŋeʔ*H-*neŋ*H "will read" : *ŋeʔ*H-*ra*H "read(past)"
                  *xuḵ*H-*neŋ*H "will meet" : *xuḵ*H-*ra*H "met"

Notes

[1]"Lhaovo" is the name in their own language, and "Maru" is the name in Jinghpaw and Burmese. Hereafter I will use only "Lhaovo". Lhaovo has orthography invented in 1968, and the name "Lhaovo" itself is spelled in the orthography. In the phonemic transcription used here, it is transcribed *loŋ*F *vo*F. Hereafter orthographic spelling is included in angle bracket.

[2]Dài & Xú, *The Grammar of Kachin, p.3*

[3]*A short information about Lhaovo people*, p.1. According to *Ethnologue*(1996), the population of Lhaovos in Myanmar is 98,700 (1983 estimate), but the source of the estimation is unclear.

[4]Main informant is *tsăkauŋL khoŋF ceL <Zakaung: Khao Je:>*. He was born in *tsømF pyoʔL <Zeim byo;>* village, on the eastern side of *Me river(Me hka)*, *chiF phuyL <Ciphui>* township, Kachin state of the Union of Myanmar in 1945 and moved to Myitkyina in 1963. Now he is the secretary of *Lhaovo Littero-Cultural Committee*. He helped me in my second and third field work. *lămauŋL khoŋF xoŋH <Lamaung: Khao Hhao">*, chairman of Lhaovo Littero-Cultural Commitee, also helped me especially in my first field work. In this paper, I mainly depend on data from *<Zakaung: Khao Je:>*.

[5]Only two exceptions I found are *ŋ*F "yes" and *ŋ̩*L "QUOTATION", both are syllabic nasals.

[6]_ under the vowel indicates that the vowel has the feature [+Glottalized]. See Section 7.

[7]In borrowed words, it is not the case: *tsuyn*H "spoon" < MB. *zuːn:*, *seyn*L "store, shop" < MB. *s^hain*_. Incidentally, etymological abbreviations used in this paper are as follows: JP.=Jinghpaw, LV.=Lhaovo, MB.=Modern Burmese, WB.=Written Burmese.

[8]In *Lhao Tung" Mho" Hhid Paug'(Lhaovo Primer)*, we can find more examples: *bey*H *bey*H "ONOMATOPAE", *ăy̱ey*H *yey*H "ONOMATOPAE", *ăɣ̱ey*H "INTERJECTION".

[9]<JP. *hpà jèt*

[10]<JP. *bà*

[11]<JP. *hpà jí* + Lhaovo. *khyo*F "road"

[12]<MB. *pya.zaʔ*

[13]The counterparts of /aŋ/,/auŋ/,/uŋ/ are /ak/,/auk/,/uk/ respectively.

  /øŋ/ might have /øm/ as its counterpart. See footnote 15.

[14]Perhaps the word was borrowed from Jinghpaw (<JP. *htòt*). we find a few more words which might have similar origin in the Testament translated into Lhaovo: *shăkut*F (spelled as *sh-kud* in orthography)"to persist" <JP. *shăkùt*. *sut*F (spelled as *sud*)"good result" <JP. *sùt*.

[15]The counterpart of /øm/ is /øʔ/, the only /Vʔ/ which has no counterpart with final /-ŋ/. The phonological correspodence between Burmese and Lhaovo might support the idea: WB. *-wan,-wam* : LV. *-øm*. WB. *-wat* : LV. *-øʔ*. e.g. WB. *twan:*, LV. *tøm*L "to push". WB. *pwat*, LV. *pøʔ*F "to rub".

[16]The cooccurence of ɣ and [+Glottalized] seems to be very rare in the informant's dialect.

[17]The number of tonemes in this case is same as that of Nishida(1973)'s description of Eastern (Myitkyina) dialect. On the other hand, Yabu(1992)'s description of a dialect in Shan-state, Dài & Xú's description of a dialect called *(Làngsù)* in China (in Huáng et.als.(ed.)(1992)), as well as Burling's description (specificity of the dialect not mentioned) recognize two tonemes for syllables with final stop.

[18]Perhaps John Okell's "Notes on tone alternation in Maru verbs", *STC 12* could be the one which deals with this phenomenon.

[19]In the case of 2nd person, The form of determiner is distinct from that of non-determiner. *noŋ*L "you" : *ni*H *tuŋ*H *pauk*H "your book".

[20]I have not checked the case of *yo*F "hundred", *tauŋ*F "thousand" etc. yet.

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Appendix: Lhaovo-English Vocabulary

- Entries and their numbering follow List I of *A Linguistic Questionnaire for Asian and African Languages, Vol.1. ILCAA, 1966.*

- *X', X"* etc. (*X* is the number of entry) are synonyms of *X*.

- *Xa, Xb, Xc* etc. are supplementary words related to *X*.

- *XN* is the noun corresponding to the verb *X*, and

  XV is the verb corresponding to the noun *X*.

  Sometimes the original entry *X* is missing.

- In most verbs, both negative statement form with prefix $m\breve{a}$- and affirmative statement form with -raH "REALIS" are recorded. The order is **NEGATIVE/AFFIRMATIVE**, because the form to which $m\breve{a}$- is prefixed is "basic" form of verb, and the form to which -raH is attached is "heightened" form of verb.

- Abbreviations of word class are: [interj]=interjection, [n]=noun, [p]=particle, [prf]=prefix, [v]=verb. Phrasal expressions have no specification for category.

No.	LHAOVO FORM		ENGLISH TRANSLATION
1	*au*L	[n]	head
1'	*au*L *lam*L	[n]	head
2	*tsheŋ*F	[n]	hair
3	*ŋa*L *loŋ*L	[n]	forehead
4	*myoʔ*F *muk*H	[n]	eyebrow
5	*myoʔ*F	[n]	eye
5a	*myoʔ*F *cit*H	[n]	eyeball
6	*ŋuk*F *pyit*F	[n]	tear
7	*no*L	[n]	ear
8	*no̱*F	[n]	nose
9	*na̱t*H	[n]	mouth
10	*na̱t*H *ɣit*F	[n]	lip
11	*šo*F	[n]	tongue
12	*khă ta̱*L	[n]	spit
13	*tsauy*F	[n]	tooth /teeth
14	*eŋ*F *thoŋ*F	[n]	chin
14a	*eŋ*F *cheŋ*L	[n]	lower jaw bone
15	*pă ɣeŋ*F	[n]	cheek
16	*na̱t*H *mauy*L	[n]	beard /moustache /whisker
16'	*na̱t*H *muk*H	[n]	beard /moustache /whisker
17	*myoʔ*F *khuŋ*L	[n]	face
18	*laŋ*F *tsaŋ*L	[n]	neck
19	*khyauŋ*L	[n]	throat
20	*loʔ*F *sin*F	[n]	shoulder
21	*ŋ*F *kauŋ*L	[n]	back
22	*phyit*H *tam*L	[n]	waist
23	*chauk*H *am*F	[n]	buttock
24	*ɣoŋ*F *koŋ*F	[n]	chest
25	*nuk*H *am*F	[n]	breast
26	*veŋ*L *tuk*L	[n]	belly
27	*choʔ*H	[n]	navel
27'	*choʔ*H *tuŋ*L	[n]	navel
28	*loʔ*F *pa̱u*H	[n]	arm
29	*loʔ*F *ma̱t*H *thauŋ*L	[n]	elbow
30	*loʔ*F	[n]	hand
31	*loʔ*F *ñu̱k*H	[n]	finger (of hand)
31a	*khyit*F *ñu̱k*H	[n]	finger (of foot)
32	*loʔ*F *saŋ*L	[n]	nail /claw of hand
32a	*khyit*F *saŋ*L	[n]	nail /claw of foot

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33	*khyit*F	[n]	leg /foot
34	*pat*H *lauk*F	[n]	knee
35	*saŋ*L	[n]	liver
36	*khøm*F	[n]	heart
37	*au*F	[n]	guts
38	*šă ɣit*F	[n]	skin
39	*pau*F *kyø*L	[n]	sweat /perspiration
40	*hit*H	[n]	filth /grime /dirt
41	*fak*H	[n]	pus
42	*šă muk*H	[n]	hair
42a	*šă mauy*L	[n]	pubic hair
43	*tshau*F	[n]	fat /grease
43'	*šă tshau*F	[n]	fat /grease
44	*sa*L	[n]	blood
45	*šă ɣuk*L	[n]	bone
46	*šo*L	[n]	flesh
47	*kauŋ*F	[n]	body
47'	*kauŋ*F *khyoŋ*F	[n]	body
48	*nă puk*L	[n]	diseases /illness /sickness
48'	*yo*H *ka*L	[n]	diseases /illness /sickness
49	*teŋ*F	[n]	wound
49a	*teŋ*F *cat*L	[n]	lacerations
50	*mă chit*H	[n]	medicine
51	*chin*F	[n]	rice
51a	*kauk*F	[n]	puddy
52	*ă phauy*L	[n]	powder /flour
53	*tsho*L	[n]	salt
54	*tshau*F	[n]	oil
55	*ɣit*F	[n]	liquor /wine
56	*chit*H *myi*L	[n]	tobacco
56'	*chit*H *løm*L	[n]	tobacco
57	*min*F	[n]	taste /flavor
58	*šøm*F *neŋ*F	[n]	smell /scent /odour
59	*tso*L *nam*F	[n]	food
59'	*tso*L *ca*L	[n]	food
60	*šo*L	[n]	meat
60a	*ɣoʔ*F *šo*L	[n]	chicken
60b	*ŋo*L *šo*L	[n]	fish meat
60c	*chat*H *peʔ*F *šo*L	[n]	mutton
61	*au*H	[n]	egg

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61a	ɣoʔF auH	[n]	hen's egg
61b	ɣoʔF auH l̲a̲yF	[n]	fried egg
62	ɣoʔF	[n]	hen /cock /fowls
63	ŋo̲ʔH	[n]	bird
63a	tsømF	[n]	eagle
63b	khauŋL papL	[n]	owl
64	tauŋF	[n]	wing
65	ŋo̲ʔH mukH	[n]	feather /plume
66	ŋo̲ʔH satH	[n]	nest
67	tsauɣF	[n]	beak /bill
67'	ŋo̲ʔH tsauɣF	[n]	beak /bill
68	khyukF	[n]	horn
69	nuŋL cauŋF	[n]	beef /cow /bull
69a	nuŋL lauɣL	[n]	buffalo
70	šeŋF	[n]	knife /penknife
71	šeŋF pyoŋF	[n]	sword
72	šeŋF suL	[n]	blade /edge
73	thauŋF k̲a̲ŋF	[n]	pole /bar /stick(long)
73a	voF seL	[n]	pole /bar /stick(short)
74	pakF tinH	[n]	bow
74a	laL	[n]	bowgun
75	myoL	[n]	arrow
76	l̲e̲ŋF	[n]	lance /spear
77	khyaŋF	[n]	thread
78	ŋe̲ʔH	[n]	needle
79	veʔF mayF pauL	[n]	clothes /clothing
79a	mayF šeŋH	[n]	lungyi
80	mukF sukH	[n]	paper
81	tsayF	[n]	thing
82	lo̲ŋF mauɣF	[n]	snake
83	pă thauŋF	[n]	worm /insect
84	yoŋF khauŋL	[n]	fly
85	kyo̲ŋF	[n]	mosquito
86	khă l̲a̲L	[n]	flea
87	šinL	[n]	louse
88	phă kyauŋH	[n]	ant
89	ŋoL	[n]	fish
90	lă høL	[n]	shellfish
90a	loŋH coH	[n]	clam /scallop
91	kukH ñ̲u̲kH	[n]	animal

91a	*yin*H *pe?*F	[n]	squirrel
91b	*he̯ŋ*F	[n]	flying squirrel
92V	*šo*L *mǎ-khe?*H /*khe?*H-*ra*H	[v]	hunt
92V'	*šo*L *khe?*H *mǎ-khe?*H /*khe?*H-*ra*H	[v]	hunt
93	*køm*F	[n]	net
93a	*myo̱*F	[n]	net
94	*kha*L	[n]	dog
94'	*lǎ kha*L	[n]	dog
94a	*tsak*F *neŋ*F	[n]	wild dog
95	*ta̱u̱y*L	[n]	rope
96	*ta̱u̱y*L	[n]	string
97	*yoŋ*F	[n]	sheep
98	*myoŋ*L	[n]	horse
99	*vo?*F	[n]	pig
100	*šǎ myi*L	[n]	tail
101	*šǒ muk*H	[n]	fur /wool
102	*šǎ ɣit*F	[n]	fur
103	*thauŋ*F	[n]	sack /bag
104	*uk*H	[n]	pan /pot
104a	*niŋ*F *tam*F	[n]	frying pan
104a'	*šeŋ*F *uk*H	[n]	frying pan
105	*veŋ*L *uk*H	[n]	kettle
106	*yeŋ*L	[n]	jar
106a	*ɣit*F *uk*H	[n]	water pot
107	*myit*F *uk*H	[n]	jar /pot
108	*mo̱ŋ*L *muk*L	[n]	roof
109	*khǎ ɣeŋ*F	[n]	wall
110	*kham*L *tso*L	[n]	window
111	*kham*L	[n]	door
112	*ya̱m*F	[n]	house /home
113	(*nuŋ*L)*ri̱ŋ*H	[n]	vehicle
114	*ɣit*F *saŋ*F *pho*F	[n]	vessel /ship
115	*ɣit*F *thauŋ*L	[n]	well
116	*mau*H	[n]	business /job /work /task
117	*ŋauy*F	[n]	money
118	*sak*H *keŋ*F	[n]	tree
119	–	[n]	stem /trunk
120	*ǎ ka̱u̱ŋ*F	[n]	branch
120a	*ǎ ko̱?*H	[n]	twig
121	*myo?*F *keŋ*F	[n]	grass

122	–	[n]	stalk
123	*ă kyi*L	[n]	root
124	*ă foʔ*H	[n]	leaf
125	*pin*L	[n]	flower /blossom
126	*ă ši*L	[n]	fluit /nut
127	*ă cit*H	[n]	seed
127a	*hă vo*L *myuk*L	[n]	seed
128	*ă kauk*H	[n]	bark
128'	*sak*H *kauk*H	[n]	bark
129	*yo*F *thauŋ*L	[n]	rice-field
129a	*tauŋ*F *yo*F	[n]	field /acres
130	*sak*H *yo*F	[n]	grove /copse /woods
131	*să yo*F	[n]	forest
132	*khyo*F	[n]	way /road
133	*ă puŋ*H	[n]	hole /pit
134	*tseŋ*F	[n]	bridge
135	*ɣit*F *mo*H	[n]	river
136	*pam*F	[n]	mountain
137	*pa*L	[n]	field
138	*coŋ*L *teŋ*F	[n]	plain
139	*ɣit*F *loŋ*L	[n]	pond
140	*ɣit*F *nauŋ*H	[n]	lake
141	*paŋ*L *lay*L	[n]	sea
142	–	[n]	island
143	*ɣit*F	[n]	water
144	*ɣit*F *khay*H	[n]	ice
144a	*kyu*L	[n]	ice in mountain
145	*lauk*F *pauy*F	[n]	stone
146	*myit*F	[n]	earth
147	*ma*F *cho*F	[n]	sand
148	*phă luk*F	[n]	dust
149	*myă khuk*H	[n]	smoke
150	*myă ɣeʔ*F	[n]	ash
151	*myi*L	[n]	fire
152	*la*F	[n]	wind
153	*cam*F	[n]	cloud
154	*ŋin*F	[n]	mist /dew /snow /frost
154a	*loŋ*H *khyam*H	[n]	mist /haze /fog
155	*muk*L	[n]	rain
155'	*muk*L *ɣit*F	[n]	rain

156	*ŋin*F *khay*H	[n]	snow
157	*muk*L *kauŋ*F	[n]	sky
158	*saŋ*F *yoŋ*F	[n]	rainbow
159	*pa*F	[n]	sun
160	*lo*H	[n]	moon
161	*poŋ*F *ɣauŋ*F	[n]	shadow
161a	*pa*F *šam*F	[n]	shade
162	*kyi*F	[n]	star
163	*na*H	[n]	day
164	*neʔ*F *khoŋ*L *ŋo*H	[n]	daily /everyday
165	*pan*F	[n]	week
166	*lo*H	[n]	month
167	*tsin*F	[n]	year
168	*neʔ*F *søm*F	[n]	morning
169	*na*H *kauŋ*F	[n]	afternoon
170	*myi*H *thoŋ*F	[n]	evening
170a	*pa*F *voŋ*F *tso*H	[n]	dusk
171	*myi*H	[n]	night
172	*ă ñi*H *neʔ*H *(meŋ*F)	[n]	yesterday
173	*neʔ*F *mo*H *neʔ*F	[n]	tomorrow
174	*ă na*H *neʔ*F	[n]	today
174'	*ă na*H *pa*F	[n]	today
175	*ă na*H	[n]	now
176	*khă neŋ*H	[n]	when
176'	*khă neŋ*H *yoʔ*F	[n]	when
177	*yoʔ*F *ɣuk*F *khă no*H	[n]	what time?
178	*ă yoʔ*F	[n]	hour /time
179	*ta*F	[n]	one
180	*šit*H	[n]	two
181	*sam*F	[n]	three
182	*pyit*F	[n]	four
183	*ŋo*H	[n]	five
184	*khyauk*H	[n]	six
185	*nat*H	[n]	seven
186	*šeʔ*H	[n]	eight
187	*kuk*F	[n]	nine
188	*tă tshe*F	[n]	ten
189	*šit*H *tshe*F	[n]	twenty
190	*tă yo*F	[n]	hundred
191	*khă no*H	[n]	hou much

192	*khǎ n̠o*H *lam*L	[n]	how many
193	*tǎ khyeŋ*F	[n]	half
194	*ǎ l̠ap*H	[n]	altogether /all /whole
195	*tǎ c̠it*H *tso*L	[n]	some
196	*ǎ so*L	[n]	number
197	*tsin*F *na*F	[n]	age
198	*ǎ l̠aŋ*F	[n]	(first) time
199	*y̠am*F *saŋ*F *pho*H	[n]	husband
200	*y̠am*F *saŋ*F *my̠i*H	[n]	wife
201	*loʔ*F *mǎ-tshoʔ*H */tshoʔ*H-*ra*H	[v]	marriage
202	*ǎ pho*H	[n]	father /papa
202'	*ŋa*H-*pho*H	[n]	father /papa
203	*ǎ my̠i*H	[n]	mother /mama
203'	*ŋa*H-*my̠i*H	[n]	mother /mama
204	*ǎ phuk*H	[n]	grandfather /grandpapa
204'	*ŋa*H-*phuk*H	[n]	grandfather /grandpapa
205	*ǎ phyit*H	[n]	grandmother /grandmama
205'	*ŋa*H-*phyit*H	[n]	grandmother /grandmama
206	*yauk*F *kay*F *tso*L	[n]	son
207	*myi*F *ɣe*L *tso*L	[n]	daughter
208	*tso*L	[n]	child /son&daughter
208a	*tsǎ nau*H	[n]	child /juvenile
209	*(kha*L*)nau*H	[n]	young (dog)
210	*myit*L	[n]	grandchild /grandson /granddaughter
211	*(ǎ)moŋ*L	[n]	elder brother
211'	*ŋa*H-*moŋ*L	[n]	elder brother
211a	*ŋa*H-*mauŋ*F	[n]	elder brother of female
212	*(ǎ)pay*L	[n]	elder sister
212'	*ŋa*H-*pay*L	[n]	elder sister
213	*(ǎ)n̠a̠uŋ*L	[n]	younger brother
213'	*ŋa*H-*n̠a̠uŋ*L	[n]	younger brother
213a	*ŋa*H-*mauŋ*F	[n]	younger brother of female
214	*ne̠ŋ*L *mo*H	[n]	younger sister of male
214a	*(ǎ)n̠a̠uŋ*L	[n]	younger sister
214a'	*ŋa*H-*n̠a̠uŋ*L	[n]	younger sister
215	*yoŋ*L *moŋ*L *yoŋ*L *n̠a̠uŋ*L	[n]	male and his younger brother /sister
216	*yoŋ*L *n̠a̠uŋ*L *yoŋ*L *pay*L	[n]	female and her younger brother /sister
217	*ma*H *hoʔ*H	[n]	family

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218	*pa*F *nam*F	[n]	friend /mate
218a	*pyin*F *choŋ*L	[n]	friend /mate
219V	*mǎ-coH-pyoʔ*F */coH-pyoʔ*L*-ra*H	[v]	quarrel
220	*ɣam*L	[n]	force /strength /power /might
221	*sǎ ko*F	[n]	dumb
222	*nǎ cit*F	[n]	deaf
223	*myoʔ*F *cit*F	[n]	blind
224	*yauk*F *kay*F	[n]	male
225	*myǐ ɣe*L	[n]	female
226	*pyu*F	[n]	person /man /one
227	*ŋo*F	[n]	I
227a	*ŋa*H*(-ra*H*)*	[n]	my
228	*noŋ*F	[n]	you
228a	*ni*H*(-ra*H*)*	[n]	your
229	*yoŋ*L	[n]	he
229a	*yoŋ*H*(-ra*H*)*	[n]	his
230	*yoŋ*L	[n]	she
230a	*yoŋ*H*(-ra*H*)*	[n]	her
231	*ŋǎ nauŋ*H	[n]	we
232	*nǎ nauŋ*H	[n]	you
233	*yoŋ*L*-pam*F	[n]	they
234	*yoŋ*L*-pam*F	[n]	they(f.)
235	*ŋǒ-yoŋ*L	[n]	myself
235a	*noŋ*F*-yoŋ*L	[n]	yourself
235b	*yoŋ*L*-yoŋ*L	[n]	himself
236	*kǎ tau*F	[n]	else /other
237	*khǎ-yauk*F	[n]	who
238	*maŋ*F	[n]	name /first name
238a	*yam*F *khauŋ*F *maŋ*F	[n]	name /family name
239	*maŋ*F	[n]	name
240	*tuŋ*H *che*H	[n]	letter /character
240'	*tuŋ*H	[n]	writing
241	*thø*F	[n]	voice
242	*thø*F	[n]	sound
243	*toŋ*L	[n]	words
243a	*myan*H *thø*F	[n]	speech
243a'	*toŋ*L *myan*H	[n]	language
244	*nak*H *lam*L	[n]	mind /heart
245	*yuy*F	[n]	God
246	*pø*F	[n]	feast /festival

247	*vo*F *kauŋ*L	[n]	village
248	*vo*F *mo*H	[n]	town
249	*che*F	[n]	this (one)
250	*ay*F	[n]	it
251	*ay*F	[n]	that (one)
251'	*tho*F	[n]	that (one)
252	*khŏ-lam*L	[n]	which (one)
253	*pe̱*H	[n]	what
253'	*pe̱*H *nam*F	[n]	what
253"	*pe̱*H *ca*L	[n]	what
254	*pe̱*H *muŋ*F-*yaŋ*L		why
255	*chă-ca̱m*F	[n]	these (ones)
255a	*ăy-ca̱m*F	[n]	those (ones)
255b	*thă-ca̱m*F	[n]	those (ones)
256	*khă-ru*L	[n]	how
257	*che*L	[n]	here
257a	*che*L-*coʔ*F *ɣo*F	[n]	here
258	*ay*L	[n]	there
258a	*ay*L-*coʔ*F *ɣo*F	[n]	there
259	*tho*L	[n]	that place /over there
259a	*tho*L-*coʔ*F *ɣo*F	[n]	that place /over there
259b	*tho*H *thă-coʔ*F *ɣo*F	[n]	that place /over there
260	*khă-coʔ*F *ɣo*F	[n]	where /anywhere
261	*chă-šat*H	[n]	this way
262	*ăy-šat*H	[n]	that way
263	*thă-šat*H	[n]	away /that way
264	*khă-šat*H	[n]	where
265	*coʔ*F *ɣo*F	[n]	place /location
266	*loʔ*F *ka̱uŋ*L	[n]	left
266a	*loʔ*F *ka̱uŋ*L *khyo*F	[n]	left side
266a'	*loʔ*F *ka̱uŋ*L *šat*H	[n]	left side
267	*loʔ*F *yo*F	[n]	right
267a	*loʔ*F *yo*F *khyo*F	[n]	right side
267a'	*loʔ*F *yo*F *šat*H	[n]	right side
268	*hi̱t*H	[n]	front
268a	*hi̱t*H *khyo*F	[n]	front side
268a'	*hi̱t*H *šat*H	[n]	front side
269	*thoŋ*F	[n]	back
269a	*thoŋ*F *khyo*F	[n]	back side
269a'	*thoŋ*F *šat*H	[n]	back side

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270	ǎ khukF	[n]	inside /inward /interior
271	ǎ yeŋF	[n]	out /outside /exterior
272	ǎ kyoL	[n]	space
273	ǎ thoʔH	[n]	up /above
273a	ǎ toŋF	[n]	on
274	oF	[n]	down /under
275	mǎ-ɣuH /ɣuH-raH	[v]	look /see
276	mǎ-hṵH /hṵH-raH	[v]	show
276'	mǎ-ɣṵH /ɣṵH-raH	[v]	show
276a	mǎ-chømL /chømH-raH	[v]	point out
277	mǎ-te̯ŋH-kyoL /te̯ŋH-kyoH-raH	[v]	hear
278	šømF mǎ-neŋF /neŋL-raH	[v]	smell
279	soʔH mǎ-šeF /šeL-raH	[v]	breathe
280	mǎ-ca̯uF /ca̯uL-raH	[v]	say
280a	mǎ-ta̱H /ta̱H-raH	[v]	speak
281	mǎ-khayF /khayL-raH	[v]	call
281a	mǎ-ma̱ŋH /ma̱ŋH-raH	[v]	call /name
282	mǎ-hukH /hukH-raH	[v]	cry /shout
283	mǎ-ŋa̱u̯yH /ŋa̱u̯yH-raH	[v]	sing
283a	mǎ-chau̯ŋL ŋa̱u̯yH /chau̯ŋL ŋa̱u̯yH-raH	[v]	sing (hymns)
284	mǎ-koH-na̱nH /koH-na̱nH-raH	[v]	dance
285	(toŋL) mǎ-ta̱H /ta̱H-raH	[v]	talk
285a	(toŋL) mǎ-ca̯uF /ca̯uL-raH	[v]	talk
286	lauF mǎ-kyoL /kyoH-raH	[v]	inform /announce
286a	mǎ-paF-no̱ŋF /paF-no̱ŋL-raH	[v]	inform /make known
287	mǎ-ca̱pH /ca̱pH-raH	[v]	breathe in /suck
288	mǎ-taukF /taukL-raH	[v]	vomit
289	(khǎ ta̱L) mǎ-phøH /phøH-raH	[v]	spit
290	mǎ-pinL /pinH-raH	[v]	bite
290a	mǎ-voL /voH-raH	[v]	chew
291	mǎ-ɣiF /ɣiL-raH	[v]	laugh
292	mǎ-ŋukF /ŋukL-raH	[v]	weep
293	mǎ-ŋau̯yF pauL /ŋau̯yF pauH-raH	[v]	rejoice /glad
293a	ŋau̯yF pauL phoH ruF mǎ-ŋatL /ŋatL-raH	[v]	be gladsome
293a'	ŋau̯yF pauL mǎ-kayF /kayL-raH	[v]	be gladsome
294	mǎ-kyaukF /kyaukL-raH	[v]	fear /be afraid /be scared
294a	kyaukF phoH ruF mǎ-ŋatL /ŋatL-raH	[v]	be fearsome
295	na̱kH mǎ-ka̱ukH /ka̱ukH-raH	[v]	grieve /sad
295a	na̱kH ka̱ukH phoH ruF mǎ-ŋatL /ŋatL-raH	[v]	be grievous /be sad
296	na̱kH mǎ-yoL /yoH-raH	[v]	get angry

297	*mă-tin*F /*tin*L-*ra*H	[v]	be startled
297a	*mă-muk*H /*muk*H-*ra*H	[v]	be amazed
298	*mă-pe?*F /*pe?*L-*ra*H	[v]	strike /beat /hit
298b	*mă-ko̱?*H /*ko̱?*H-*ra*H	[v]	knock
299	*mă-pak*F /*pak*L-*ra*H	[v]	shoot
300	*mă-thøm*F /*thøm*L-*ra*H	[v]	punch
301	*mă-ya*F /*ya*L-*ra*H	[v]	heal /cure
302	*mă-ña̱ŋ*H /*ña̱ŋ*H-*ra*H	[v]	repair /mend
303	*mă-šă pye̱?*H /*šă pye̱?*H-*ra*H	[v]	throw /cast
303a	*(lauk*F *pauy*F) *mă-pye̱?*H /*pye̱?*H-*ra*H	[v]	throw /cast (stone)
304	*mă-thauŋ*L /*thauŋ*H-*ra*H	[v]	thrust /dab
305	*mă-thuk*H-*phuŋ*H /*thuk*H-*phuŋ*H-*ra*H	[v]	sting /pierce
305a	*(kyo̱ŋ*F) *mă-pin*L /*pin*H-*ra*H	[v]	(mosquito) bite
305b	*(pyo*L) *mă-pe̱?*H /*pe̱?*H-*ra*H	[v]	(bee) sting
306	*mă-pe?*F-*kho?*H /*pe?*F-*kho?*H-*ra*H	[v]	crush /shatter to pieces
306a	*mă-mya̱k*H-*khyø?*H /*mya̱k*H-*khyø?*H-*ra*H	[v]	crush /shatter to pieces
307	*mă-pyo?*F /*pyo?*L-*ra*H	[v]	be broken
308	*mă-tøm*L /*tøm*H-*ra*H	[v]	push
309	*mă-loŋ*L /*loŋ*H-*ra*H	[v]	pull
310	*mă-tsauy*L /*tsauy*H-*ra*H	[v]	have
311	*mă-tsa̱p*H /*tsa̱p*H-*ra*H	[v]	seize
312	*mă-tsoŋ*H /*tsoŋ*H-*ra*H	[v]	touch
312a	*mă-thuk*H /*thuk*H-*ra*H	[v]	touch lightly
313	*mă-pø?*F /*pø?*L-*ra*H	[v]	rub /scrub
314	*mă-kyi̱n*F /*kyi̱n*L-*ra*H	[v]	scratch
315	*mă-pauŋ*L /*pauŋ*H-*ra*H	[v]	swell
316	*khyo*F *mă-su*L /*su*H-*ra*H	[v]	walk
317	*mă-noŋ*L /*noŋ*H-*ra*H	[v]	tread
318	*mă-pyeŋ*F /*pyeŋ*L-*ra*H	[v]	jump
318a	*mă-thuk*H-*toŋ*L /*thuk*H-*toŋ*H-*ra*H	[v]	gambol /frisk /jump about /caper
319	*mă-to̱ŋ*L /*to̱ŋ*H-*ra*H	[v]	run
320	*mă-pa̱k*H /*pa̱k*H-*ra*H	[v]	kick
321	*mă-to̱*H /*to̱*H-*ra*H	[v]	stand
321a	*tsauŋ*H *tsauŋ*H *mă-ye?*F /*ye?*L-*ra*H	[v]	stand upright
321b	*tin*L *tin*L *mă-ye?*F /*ye?*L-*ra*H	[v]	stand straightly
322	*mă-tsauŋ*F /*tsauŋ*L-*ra*H	[v]	sit
323	*mă-yø*L /*yø*H-*ra*H	[v]	crawl /creep
324	*mă-co̱ŋ*L /*co̱ŋ*H-*ra*H	[v]	lie /lie down
324a	*yap*F *ɣo*F *mă-voŋ*F /*voŋ*L-*ra*H	[v]	repose /take rest
325	*mă-yap*F /*yap*L-*ra*H	[v]	sleep

326	*mǎ-kyaŋ*L /*kyaŋ*H-*ra*H	[v]	wake up
327	*yap*F *ɣo*F-*meŋ*H *mǎ-to̜*H /*to̜*H-*ra*H	[v]	rise /get up
328	*mǎ-tso*L /*tso*H-*ra*H	[v]	eat
329	*mǎ-šauk*H /*šauk*H-*ra*H	[v]	drink
330	*yit*F *mǎ-yit*L /*yit*H-*ra*H	[v]	be drunken
331	*mǎ-mø?*L /*mø?*H-*ra*H	[v]	starve /hungry
332	*ɣit*F *mǎ-šap*H /*šap*H-*ra*H	[v]	be thirsty
333	*mǎ-o*F /*o*L-*ra*H	[v]	like
333a	*mǎ-ŋauy*F /*ŋauy*L-*ra*H	[v]	be pleased with
334	*mǎ-ŋa̜ŋ*L /*ŋa̜ŋ*H-*ra*H	[v]	dislike
334a	*mǎ-cha?*H /*cha?*H-*ra*H	[v]	abhor
335	*mǎ-pap*F /*pap*L-*ra*H	[v]	rotten
335a	*mǎ-suk*H /*suk*H-*ra*H	[v]	stale
335b	*mǎ-tseŋ*L /*tseŋ*H-*ra*H	[v]	deteriorate
335b'	*mǎ-ɣøm*L /*ɣøm*H-*ra*H	[v]	deteriorate
336	*mǎ-kho?*H /*kho?*H-*ra*H	[v]	crack /smash
336a	*khyeŋ*L *loŋ*L *mǎ-kho?*H /*kho?*H-*ra*H	[v]	halve
337	*mǎ-toŋ*L /*toŋ*H-*ra*H	[v]	fly
338	*ɣit*F *he̜?*H *mǎ-he̜?*H /*he̜?*H-*ra*H	[v]	swim
339	*mǎ-myuŋ*L /*myuŋ*H-*ra*H	[v]	drift /float
339a	*mǎ-myuŋ*L-*lo*H /*myuŋ*H-*lo*H-*ra*H	[v]	drift /float
340	*ɣit*F *mǎ-nap*F /*nap*L-*ra*H	[v]	sink
341	*mǎ-chat*H /*chat*H-*ra*H	[v]	tear
341a	*mǎ-loŋ*H-*chat*H /*loŋ*H-*chat*H-*ra*H	[v]	tear
342	*mǎ-cat*F /*cat*L-*ra*H	[v]	to be torn
343	*ǎ ka̜uk*H *mǎ-khyat*H /*khyat*H-*ra*H	[v]	peel
344	*mǎ-phyo?*H /*phyo?*H-*ra*H	[v]	crush
344a	*mǎ-pya̜k*H /*pya̜k*H-*ra*H	[v]	grind /mill
344b	*mǎ-thauŋ*L /*thauŋ*H-*ra*H	[v]	pound
345	*mǎ-ko̜ŋ*F /*ko̜ŋ*L-*ra*H	[v]	roast
346	*mǎ-ya̜uŋ*H /*ya̜uŋ*H-*ra*H	[v]	boil
347	*mǎ-choŋ*H /*choŋ*H-*ra*H	[v]	drive /run after
348	*mǎ-(phoŋ*L-*)to̜ŋ*L /*(phoŋ*L-*)to̜ŋ*H-*ra*H	[v]	escape /run away
349	*mǎ-se?*H /*se?*H-*ra*H	[v]	kill
350	*mǎ-ta̜uy*L /*ta̜uy*H-*ra*H	[v]	tie
351	*mǎ-phøm*F /*phøm*L-*ra*H	[v]	release /untie
352	*mǎ-la̜k*H-*ke̜?*H /*la̜k*H-*ke̜?*H-*ra*H	[v]	set free
353	*(ŋe̜?*H) *mǎ-khyap*H /*khyap*H-*ra*H	[v]	sew
354	*mǎ-tsap*F /*tsap*L-*ra*H	[v]	wash
354a	*mǎ-chit*H /*chit*H-*ra*H	[v]	wash (hands or legs)

354b	myoʔF mǎ-chitH /chitH-raH	[v]	clean (face)
355	mǎ-satH /satH-raH	[v]	wipe
356	mǎ-veʔF /veʔL-raH	[v]	wear /put on
357	mǎ-khyatH /khyatH-raH	[v]	take off
358	mǎ-tuŋH /tuŋH-raH	[v]	write
359	mǎ-ŋeʔH /ŋeʔH-raH	[v]	read
360	mǎ-moH /moH-raH	[v]	instruct /teach
360'	mǎ-moH-pyitL /moH-pyitH-raH	[v]	instruct /teach
361	mǎ-phyitH /phyitH-raH	[v]	cut
361a	(šeŋF ñeŋL) mǎ-ñeŋL /ñeŋH-raH	[v]	cut (with scissors)
361b	mǎ-tsheŋH /tsheŋH-raH	[v]	hack /cut off
361c	mǎ-layL /layH-raH	[v]	be wounded
362	mǎ-katH /katH-raH	[v]	make
362a	(tsayF) mǎ-katH-thukH /katH-thukH-raH	[v]	produce
363	mǎ-phuŋH /phuŋH-raH	[v]	open
363a	(myoʔF citH) mǎ-phuŋH /phuŋH-raH	[v]	open (eyes)
364	mǎ-pyitH /pyitH-raH	[v]	close
364a	mǎ-chamL /chamH-raH	[v]	close eyes
364b	(cauŋF) mǎ-pyitH /pyitH-raH	[v]	(school) close
365	mǎ-naF /naL-raH	[v]	live /dwell
366	mauH mǎ-tsauyL /tsauyH-raH	[v]	work
367	mǎ-myauŋL /myauŋH-raH	[v]	feel tired
367a	mǎ-šaŋH /šaŋH-raH	[v]	be wearied /be tired
367b	mǎ-tukF /tukL-raH	[v]	be wearied /be tired
368	tukF mǎ-noL /noH-raH	[v]	repose /take rest
369	mǎ-vayF /vayL-raH	[v]	buy /purchase
370	mǎ-auŋL /auŋH-raH	[v]	sell
371	mǎ-ɣoH-coʔF /ɣoH-coʔL-raH	[v]	get /obtain
372	mǎ-khukH /khukH-raH	[v]	steal
373	mǎ-ŋoL /ŋoH-raH	[v]	lend
373'	mǎ-ŋoL-pyitL /ŋoL-pyitH-raH	[v]	lend
373a	mǎ-citH (-pyitL) /citH (-pyitH)-raH	[v]	lend (money)
374	mǎ-ŋoL /ŋoH-raH	[v]	borrow
374'	mǎ-ŋoH-yuF /ŋoH-yuL-raH	[v]	borrow
374a	mǎ-citH (-yuF) /citH (-yuL)-raH	[v]	borrow (money)
375	mǎ-maŋH /maŋH-raH	[v]	get ripe /ripen
375a	mǎ-ɣoŋH /ɣoŋH-raH	[v]	mature
376	mǎ-khyukH /khyukH-raH	[v]	break
377	(loʔF) mǎ-fakH /fakH-raH	[v]	shake (hand)
378	mǎ-yuF /yuL-raH	[v]	adopt

378a	*mă-ɣoH-yu*F /*ɣoH-yu*L-*ra*H	[v]	adopt
379	*mă-tau*L /*tau*H-*ra*H	[v]	dig
380	*mă-myuŋ*L /*myuŋ*H-*ra*H	[v]	flow
380a	*mă-yuk*F /*yuk*L-*ra*H	[v]	flow /stream
381	*mă-to?*F /*to?*L-*ra*H	[v]	climb
382	*mă-kyo*H /*kyo*H-*ra*H	[v]	climb down /alight
383	*ă tho?*H *mă-to?*F /*to?*L-*ra*H	[v]	ascend /rise
384	*mă-kyo*H /*kyo*H-*ra*H	[v]	fall
384a	*mă-šu*F /*šu*L-*ra*H	[v]	(leaves, fruits) fall
385	*myi*L *mă-ŋa*H /*ŋa*H-*ra*H	[v]	burn /blaze
386	*la*F *mă-huk*H /*huk*H-*ra*H	[v]	blow
387	*muk*L *mă-ɣu*F /*ɣu*L-*ra*H	[v]	rain
388	*mă-cuk*H /*cuk*H-*ra*H	[v]	wet
388a	*ɣit*F *mă-tak*H /*tak*H-*ra*H	[v]	get wet /soak
389	*mă-kyauk*H /*kyauk*H-*ra*H	[v]	dry
390	*mă-ñam*L /*ñam*H-*ra*H	[v]	hide /conceal
390a	*mă-fo?*H /*fo?*H-*ra*H	[v]	hide /conceal
391	*mă-ho*F /*ho*L-*ra*H	[v]	search
392	*mă-myoŋ*F /*myoŋ*L-*ra*H	[v]	find
393	*mă-ŋe?*H /*ŋe?*H-*ra*H	[v]	reckon /count
394	*mă-khau*F /*khau*L-*ra*H	[v]	bear
394a	(*au*H) *mă-khyo*H /*khyo*H-*ra*H	[v]	bear (eggs)
395	*mă-khau*F /*khau*L-*li*H-*ra*H	[v]	be born
396	*mă-ɣi*L /*ɣi*H-*ra*H	[v]	grow(animate thing)
396a	*mă-ɣi*H-*haŋ*L-*li*H /*ɣi*H-*haŋ*L-*li*H-*ra*H	[v]	grow(animate thing)
397	*mă-šit*F /*šit*L-*ra*H	[v]	die
398	*koŋ*F *so?*H *mă-tauy*F /*tauy*L-*ra*H	[v]	live
399	*mă-lau*F /*lau*L-*ra*H	[v]	play
399a	*mă-sap*H /*sap*H-*ra*H	[v]	play
399b	*mă-pyo*L /*pyo*H-*ra*H	[v]	enjoy
400	*mă-poŋ*H-*thauk*H /*poŋ*H *thauk*H-*ra*H	[v]	help /assist
401	*mă-loŋ*H /*loŋ*H-*ra*H	[v]	wait
402	*mă-huk*H /*huk*H-*ra*H	[v]	meet
402a	*mă-thauŋ*H-*huk*H /*thauŋ*H-*huk*H-*ra*H	[v]	meet by chance
403	*kyă lak*L *mă-lak*L /*lak*H-*ra*H	[v]	fight
404	*mă-auŋ*F /*auŋ*L-*ra*H	[v]	win
405	*mă-søm*H /*søm*H-*ra*H	[v]	lose /be defeated
406	*mă-myit*L-*ɣu*H /*myit*L-*ɣu*H-*ra*H	[v]	think
406a	*mă-sun*H-*ɣu*H /*sun*H-*ɣu*H-*ra*H	[v]	consider
407	*mă-to*H-*myit*H /*to*H-*myit*H-*ra*H	[v]	forget

407a	*mǎ-to̱H-myi̱tH-cho?H /to̱H-myi̱tH-cho?H-ra*H	[v]	forget to bring /take
408	*mǎ-to̱L /to̱H-ra*H	[v]	set /put
409	*mǎ-tsauŋF /tsauŋL-ra*H	[v]	ride /mount
410	*mǎ-thukH /thukH-ra*H	[v]	go out /come out
411	*mǎ-voŋF /voŋL-ra*H	[v]	enter
412	*mǎ-liH /liH-ra*H	[v]	come
412a	*mǎ-loF /loL-ra*H	[v]	come back
413	*mǎ-yeL /yeH-ra*H	[v]	go
413a	*mǎ-loH /loH-ra*H	[v]	go back
414	*mǎ-ɣauŋL /ɣauŋH-ra*H	[v]	collect /gather
415	*mǎ-la̱kH /la̱kH-ra*H	[v]	mix /blend (solid or powder)
415a	*mǎ-phauŋF /phauŋL-ra*H	[v]	mix /blend (liquid)
416	*mǎ-lapF /lapL-ra*H	[v]	move /shake
416a	*mǎ-ɣuyL /ɣuyH-ra*H	[v]	move /be displaced
417	*mǎ-tauF /tauL-ra*H	[v]	suit /fit /match
417a	*mǎ-vaŋH /vaŋH-ra*H	[v]	be equal /correspond
418	*mǎ-pyitL /pyitH-ra*H	[v]	give
419	*mǎ-ka̱tH /ka̱tH-ra*H	[v]	do
419a	*mǎ-tsauyL /tsauyH-ra*H	[v]	do /work
420	*mǎ-co̱F /co̱L-ra*H	[v]	think
420a	*mǎ-ta̱kF /ta̱kL-ra*H	[v]	think
421	*mǎ-paF /paL-ra*H	[v]	know
422	*mǎ-oF /oL-ra*H	[v]	desire /wish for /be anxious to
423	*mǎ-ɣoH-ka̱tH /ɣoH-ka̱tH-ra*H	[p]	can /be possible
423a	*mǎ-paF /paL-ra*H	[p]	can /know how to
424	*mǎ-co?F /co?L-ra*H	[v]	exist
425	*mǎ-naF /naL-ra*H	[v]	stay
426	*mǎ-co?F*	[v]	not /nonexistent
427	*mǎ-ɣiL /ɣiH-ra*H	[v]	big /large
428	*mǎ-ŋayF /ŋayL-ra*H	[v]	little
429	*mǎ-myo̱ŋF /myo̱ŋL-ra*H	[v]	high
430	*mǎ-ña̱mF /ña̱mL-ra*H	[v]	low
430a	*mǎ-laŋH /laŋH-ra*H	[v]	short
431	*mǎ-tshauF /tshauL-ra*H	[v]	fat
432	*mǎ-ŋauŋL /ŋauŋH-ra*H	[v]	lean
433	*mǎ-thauF /thauL-ra*H	[v]	thick
434	*mǎ-po̱L /po̱H-ra*H	[v]	thin
435	*mǎ-laL /laH-ra*H	[v]	heavy
436	*mǎ-sømL /sømH-ra*H	[v]	light
437	*ɣamL mǎ-ɣiL /ɣiH-ra*H	[v]	strong

437a	*ɣamL mǎ-poF /poL-raH*	[v]	strong
437b	*mǎ-kyau̯ŋF /kyau̯ŋL-raH*	[v]	stout
437c	*mǎ-kaŋL /kaŋH-raH*	[v]	strong /firm
438	*ɣamL mǎ-naŋL /naŋH-raH*	[v]	weak
438a	*mǎ-ŋo̱F /ŋo̱L-raH*	[v]	sicky
438b	*mǎ-khyøL /khyøH-raH*	[v]	feeble /infirm /sick
439	*mǎ-noF /noL-raH*	[v]	sore /painful
439a	*mǎ-noF /noL-raH*	[v]	ache
440	*mǎ-ɣoŋF /ɣoŋL-raH*	[v]	hard
440a	*mǎ-kaŋL /kaŋH-raH*	[v]	firm
441	*mǎ-au̯H /au̯H-raH*	[v]	soft
442	*mǎ-chukF /chukL-raH*	[v]	sweet
443	*tshoL mǎ-khoL /khoH-raH*	[v]	salty
444	*mǎ-yakF /yakL-raH*	[v]	hot /pungent
445	*mǎ-khoL /khoH-raH*	[v]	bitter
446	*mǎ-phyatF /phyatL-raH*	[v]	fast /quick
447	*mǎ-nayH /nayH-raH*	[v]	slow
448	*mǎ-la̱ŋH-khamH /la̱ŋH-khamH-raH*	[v]	round
448a	*mǎ-laŋH /laŋH-raH*	[v]	round /spherical
449	*(šeŋF) mǎ-thoʔH /thoʔH-raH*	[v]	sharp /acute
450	*mǎ-ŋamL /ŋamH-raH*	[v]	blunt /dull
451	*mǎ-myaukF /myaukL-raH*	[v]	smooth
452	*mǎ-tinL /tinH-raH*	[v]	straight
452N	*tinL tinL*	[n]	straight (in shape)
453	*mǎ-yau̯ŋH /yau̯ŋH-raH*	[v]	beautiful
453a	*kau̯ŋF mǎ-yau̯ŋH /yau̯ŋH-raH*	[v]	pretty
454	*mǎ-la̱kH /la̱kH-raH*	[v]	dirty
455	*mǎ-ha̱ŋF /ha̱ŋL-raH*	[v]	long
456	*mǎ-laŋH /laŋH-raH*	[v]	brief /short
457	*mǎ-vaL /vaH-raH*	[v]	distant /far
457N	*ǎ vaL*	[n]	long distance
458	*mǎ-co̱ŋH /co̱ŋH-raH*	[v]	near
458N	*ǎ vayL ǎ yeŋF*	[n]	proximity
459	*mǎ-leŋF /leŋL-raH*	[v]	broad /wide
460	*mǎ-ce̱ʔH /ce̱ʔH-raH*	[v]	narrow
461	*mǎ-lau̯ŋF /lau̯ŋL-raH*	[v]	hot
462	*mǎ-ŋinH /ŋinH-raH*	[v]	cold
463	*mǎ-lamF /lamL-raH*	[v]	warm
464	*mǎ-ŋinH /ŋinH-raH*	[v]	cold
464a	*(tsoF) mǎ-cheŋL /cheŋH-raH*	[v]	(rice) cold

465	*mǎ-ŋay*F /*ŋay*L-*ra*H	[v]	young
465a	*mǎ-nau*H /*nau*H-*ra*H	[v]	young
465b	*mǎ-mak*F /*mak*L-*ra*H	[v]	(plant) young
466	*mǎ-moŋ*L /*moŋ*H-*ra*H	[v]	old /aged
467	*ǎ sak*H *mǎ-pø*H /*pø*H-*ra*H	[v]	new
468	*mǎ-tshuk*H /*tshuk*H-*ra*H	[v]	old /ancient
469	*khǎ neŋ*H-*re*L		always
470	*mǎ-pyaŋ*H /*pyaŋ*H-*ra*H	[v]	full
471	*mǎ-myo*L /*myo*H-*ra*H	[v]	many
472	*mǎ-no*L /*no*H-*ra*H	[v]	few
472a	*mǎ-naŋ*L /*naŋ*H-*ra*H	[v]	few
473	*ǎ lap*H	[n]	all
474	*mǎ-po*H /*po*H-*ra*H	[v]	bright /light
474a	*mǎ-poŋ*F /*poŋ*L-*ra*H	[v]	bright /light
475	*mǎ-chat*H /*chat*H-*ra*H	[v]	dark
476	*pak*F *poŋ*F	[n]	light
476'	*po*H *poŋ*F	[n]	light
477	*mǎ-phyu*F /*phyu*L-*ra*H	[v]	white
477N	*ǎ phyu*F	[n]	white
478	*mǎ-noʔ*F /*noʔ*L-*ra*H	[v]	black
478N	*ǎ noʔ*F	[n]	black
479	*mǎ-neŋ*F /*neŋ*L-*ra*H	[v]	red
479N	*ǎ neŋ*F	[n]	red
480	–	[v]	blue
481	*mǎ-ñuk*F /*ñuk*L-*ra*H	[v]	green
481N	*ǎ ñuk*F	[n]	green
482	*mǎ-po*H /*po*H-*ra*H	[v]	yellow
482N	*ǎ po*H	[n]	yellow
483	*ǎ ñuk*F	[n]	colour
484	*mǎ-yauŋ*H /*yauŋ*H-*ra*H	[v]	beautiful /fine
485	*mǎ-kay*F /*kay*L-*ra*H	[v]	good
486	*mǎ-khyaŋ*L /*khyaŋ*H-*ra*H	[v]	bad
486a	*mǎ-šat*H /*šat*H-*ra*H	[v]	wrong
487	*mǎ-co*F /*co*L-*ra*H	[v]	right /correct
488	*tǎ khyo*L-*tsa*L		same
489	*mǎ-šay*H /*šay*H-*ra*H	[v]	different
490	*thoŋ*F *tǎ laŋ*F	[n]	again
491	*kho*F *khǎ ru*L		if
492	*ŋ*F	[interj]	yes
493	*mǎ-ŋat*L	[v]	no

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494	–		good day
495	*lo*H-*nĕŋ*H-*va*H-*le̱*H		good bye (guest)
495a	*lo*H-*seʔ*F		good bye (host)
495b	*tam*L-*co̱*H-*hu̱k*H-*laŋ*L-*i*H		see you again
496	*meŋ*F	[p]	at
497	*ɦeʔ*H	[p]	and
498	*ɦeʔ*H *tă ka*H		with /together /along with
499	*mă-pø*H /*pø*H-*ra*H	[v]	be /is /are
500	*mă-*	[prf]	not
501	*au*L *nauk*L	[n]	brain
502	*loʔ*F *vo*L	[n]	palm
502a	*khă vo*L	[n]	sole of foot
503	*loʔ*F *tsa̱p*H	[n]	fist
504	*ɣam*L *thauŋ*L	[n]	muscle
505	*tsa̱t*H	[n]	lung
506	*no*F *cheʔ*H	[n]	kidney
507	*am*F *pheŋ*L	[n]	stomach
508	*khyit*H	[n]	stool
508V	*khyit*H *mă-šo*F /*šo*L-*ra*H	[v]	defecate
509	*yi̱t*H	[n]	urine
509V	*yi̱t*H *mă-ta̱k*H /*ta̱k*H-*ra*H	[v]	urinate
510	*ñi̱*L	[n]	penis
511	*cauk*F	[n]	pubes /pudenda
512	*kauŋ*F *pya̱t*H	[n]	nudity
513	*ak*H *cho*H	[n]	sneeze
513V	*ak*H *cho*H *mă-cho*H /*cho*H-*ra*H	[v]	sneeze
513Va	*no̱*F *mă-se*L /*se*H-*ra*H	[v]	have a running nose
514	*khyauŋ*L *tsu̱k*H	[n]	cough
514V	*khyauŋ*L *tsu̱k*H *mă-tsu̱k*H /*tsu̱k*H-*ra*H	[v]	cough
515	*ɦa*L *ham*H *mă-ham*H /*ham*H-*ra*H	[v]	yawn
516	*ko̱ŋ*F	[n]	life
517	*khin*F *chit*H	[n]	poison
518	*tso*F	[n]	rice
518'	*veŋ*L	[n]	rice
519	*pa̱uŋ*L *muk*H	[n]	bread
520	*yaŋ*F *yi*L	[n]	potato
520b	*mauy*L	[n]	taro
520c	*mya̱uk*H	[n]	white yam
521	*kauk*F *tso*F *mauy*L *lam*L	[n]	corn /grain
522	*sauŋ*F *so*F *phauy*L	[n]	flour

523	*tshă chuk*H	[n]	suger
524	*muk*H	[n]	cake
525	*šauk*H *nam*F	[n]	drink
525'	*šauk*H *ca*L	[n]	drink
526	*foʔ*H *khyeʔ*H	[n]	tea plant
526a	*foʔ*H *khyeʔ*H	[n]	tea
526b	*ɣit*F *lam*F	[n]	chinese tea
527	*ɣit*F *lauŋ*F	[n]	hot water
528	*nuŋ*L *nuk*H	[n]	milk
529	*tsă tshøm*L *oŋ*L *phoʔ*H	[n]	vegetable
529a	*lă khu*L *ši*L	[n]	cucumber
529b	*am*F *pauŋ*L *ši*L	[n]	gourd
529c	*phyă h̠am*F	[n]	marrow /ash pumpkin
529d	*caŋ*L *k̠u*L	[n]	pumpkin
529e	*khă le̠ŋ*L	[n]	aubergine /egg-plant /brinjal
529f	*pa*F *khyi*L *ši*L	[n]	tomato
529g	*hau*L	[n]	onion /garlic
529h	*hau*L *neŋ*F	[n]	onion
529i	*hau*L *phyu*F	[n]	garlic
529j	*choŋ*L *phyak*H	[n]	red pepper /chilli
529k	*choŋ*L *k̠oʔ*H	[n]	ginger
529l	*oŋ*L	[n]	mustard
529m	*oŋ*L *foʔ*H	[n]	mustard leaf
529n	*oŋ*L *tsøm*F	[n]	cabbage
529o	*oŋ*L *pu*H	[n]	cauliflower
529p	*să lau*H	[n]	species of amaranth used as a vegitable
529q	*mak*F *c̠in*F	[n]	felmented bamboo shoot
529r	*phă l̠un*L	[n]	mint
529t	*saŋ*F *pho*F *ši*L	[n]	papaya
530	*šă kyoŋ*L	[n]	beans
530a	*šă kyoŋ*L *ši*L	[n]	green been
531	*sauŋ*F *so*F	[n]	wheat
532	*kauk*F *keŋ*F	[n]	paddy plant
533	*tso*F	[n]	meal
534	*pyaŋ*F *t̠ay*L	[n]	hare /rabbit
535	*ɣuk*F	[n]	rat
536	*tsauɣ*F	[n]	tusk /fang
537	*lă ña̠u̠*L	[n]	cat
538	*k̠ă noʔ*F	[n]	crow

539	*phauŋ*H *kyuk*H	[n]	pigeon
540	*myauk*F	[n]	monkey
541	–	[n]	beast
542	*ă lo*L	[n]	male
542'	*ă pho*H	[n]	male
543	*ă mo*H	[n]	female
543'	*ă myi*H	[n]	female
544	–	[n]	victim /sacrifice
545	*kyan*L	[n]	trap
545a	*tauŋ*L *kyan*L	[n]	noose for trapping
546	*phyit*H *lauŋ*F	[n]	cage /basket (of 2–30cm)
546a	*nauŋ*H *tso*L	[n]	cage /basket (small one)
546b	*toŋ*L *kyo*L	[n]	cage /basket (about 60cm)
546c	*toŋ*L *kan*H	[n]	cage /basket (about 1m)
547	*pan*H	[n]	box /case
548	*ă ŋøʔ*H	[n]	lid
549	*myǐ khyak*H	[n]	match
549a	*peʔ*F *lauk*F	[n]	flint
550	*sak*H *the*L	[n]	board /plank
551	*poŋ*F *taŋ*H	[n]	glass
552	*sø*L	[n]	bottle
552a	*pă lin*H	[n]	bottle
553	*pan*F	[n]	plate
554	*khuk*H *laŋ*H	[n]	cup
554a	*tshøm*L *khuk*H	[n]	cup
555	*yauk*F *kauŋ*L *nau*H	[n]	spoon
555'	*tsuyn*H	[n]	spoon
556	*tsă tshøm*L	[n]	cooking
556a	*ɣit*F *cam*F	[n]	soup
556b	*tshøm*L *ɣaŋ*L	[n]	broth /gravy
557	*šeŋ*F *ñeŋ*L	[n]	scissors
558	*ŋeʔ*H *khyap*H *mau*H	[n]	sewing
558a	*cak*F *khyap*H *mau*H	[n]	sewing by machine
559	*pye*L	[n]	comb
560	*poŋ*F *taŋ*H	[n]	mirror
560a	*ɣap*F *ɣu*H	[n]	looking-glass
561	*šauŋ*F *yauŋ*H *mau*H	[n]	toilet
561V	*mă-šauŋ*F */šauŋ*L-*ra*H	[v]	put on makeup
562	*tsay*F	[n]	tool /instrument
563	*mauk*F	[n]	hat /cap

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564	*pa*F *ko*F	[n]	umbrella
564a	*fă lu̱*F *mauk*F	[n]	bamboo hat
565	*ɣuy*L	[n]	necklace
566	*thaŋ*L	[n]	bangle /bracelet
567	*ri̱ŋ*H *che?*H	[n]	wheel
567a	*ă la̱ŋ*H	[n]	ring
568	*phyit*H *chuy*L	[n]	band /belt
569	*lo̱*L	[n]	trousers
569a	*lo̱*L *ha̱ŋ*F	[n]	long trousers
569b	*lo̱*L *tauŋ*L	[n]	short trousers
570	*khyit*F *tsa̱uŋ*L	[n]	shoe
570a	*khyit*F *tsa̱uŋ*L	[n]	boots
570b	*mo*L *tsa*L	[n]	socks
571	*phyoŋ*L *kauŋ*F	[n]	floor
572	*to̱ŋ*H *myo̱ŋ*F	[n]	desk
572'	*tsă pø*H	[n]	desk
573	*tsauŋ*F *khau*H	[n]	chair
574	*ɣe?*F	[n]	room
575	*tsaŋ*F	[n]	pillar
576	*ŋa̱*F *tsauŋ*F	[n]	toilet /lavatory
577a	*phyoŋ*L *mă-šam*L */šam*H-*ra*H	[v]	clean
578	*vaŋ*H *kham*L	[n]	gate
579	*lap*F *puk*F	[n]	tomb /grave
579a	*lap*F	[n]	cave /tomb
580	*pyă šit*F *pø*F F	[n]	funeral ceremony
581	*ha̱ŋ*F	[n]	gold
581'	*ɣa̱ŋ*F	[n]	gold
582	*ŋauy*F	[n]	silver
583	*kyit*L	[n]	copper
584	*co?*F *to̱?*H	[n]	iron
585	*cak*F	[n]	machine
586	*mo*L *to*L	[n]	car /automobile /motor-car
587	–	[n]	arms /weapon
588	*tsaŋ*F	[n]	drum (in general)
588a	*tsaŋ*F *pat*H	[n]	western drum
588b	*tsaŋ*F *ha̱ŋ*F	[n]	long drum
588c	*tsaŋ*F *laŋ*H	[n]	short drum
589	*cu̱*F	[n]	bell
589a	*toŋ*F *so*F	[n]	triangular brass gong
590	*khă lo̱ŋ*L	[n]	flute

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591	*khyi*F	[n]	banner /flag
592	–	[n]	ally
593	*kyă vo*F	[n]	enemy /foe
593a	*may*F *hi̱*H *choŋ*L	[n]	rival
594	*kyă pø̱*F	[n]	war /warfare
595	*myă ŋa*H *mau*H	[n]	burning /fire
596	*ɣă po*F	[n]	punishment
597	*khaŋ*L	[n]	tax
598	*ă phuk*H	[n]	price /cost
598a	*kau*F *co̱*F	[n]	price of commodities in terms of weight or number
599	*tṳŋ*H *pa̱uk*H	[n]	book
600	*lau*F *toŋ*L *tṳŋ*H	[n]	newspaper
601	*să lo̱*F *khyeʔ*H	[n]	drawing /painting /picture
602	*tṳŋ*H *khyeʔ*H	[n]	letter
603	*toŋ*L *ca̱u*F	[n]	talk /speech
603a	*mo̱*F *myit*L	[n]	tale /fable
604	*ŋa̱uy*H *thø*F	[n]	song
605	*ko*H *na̱n*H	[n]	dance
606	*kyauŋ*L *khyo*F	[n]	journey /trip /tour
607	*tuk*F *no*L	[n]	rest
608	–	[n]	cultivation
609	*khø*ʔH *mo*H	[n]	hoe
609a	*khø*ʔH *chøm*L	[n]	mattock
610	*phauk*H	[n]	plough
610'	*khøm*F	[n]	plough
611	*la̱uk*H *la̱ŋ*F	[n]	mortar
612	*ɣit*F *pauk*L	[n]	fountain /spring
613	*pam*F *kyo*L	[n]	valley
613a	*coŋ*L *kau*H	[n]	valley
614	*ta*F *nam*F	[n]	bank
614a	*ɣit*F *tso*H	[n]	shore line
615	*paŋ*L *lṳŋ*H	[n]	wave
616	*ñap*F	[n]	foam
617V	*muk*H *mă-køm*F /*køm*L-*ra*H	[v]	thunder
618	*le̱ʔ*H *chat*H	[n]	lightening
618V	*le̱ʔ*H *chat*H *mă-chat*H /*chat*H-*ra*H	[v]	lighten
619	*la*F	[n]	air
621	*muk*L *ɣu*F *yo*ʔF	[n]	rainy season
621a	*tsin*F *kauŋ*F	[n]	rainy season

622	–	[n]	dry season
623	–	[n]	spring time /spring
624	*lauŋ*F *yoʔ*F	[n]	summer
625	–	[n]	autumn /fall
626	*kyo*F *yoʔ*F	[n]	winter
626a	*tshauŋ*L *kauŋ*F	[n]	winter
627	–	[n]	January
628	–	[n]	February
629	–	[n]	March
630	–	[n]	April
631	–	[n]	May
632	–	[n]	June
633	–	[n]	July
634	–	[n]	August
635	–	[n]	September
636	–	[n]	October
637	–	[n]	November
638	–	[n]	December
639	–	[n]	Monday
640	–	[n]	Tuesday
641	–	[n]	Wednesday
642	–	[n]	Thursday
643	–	[n]	Friday
644	–	[n]	Saturday
645	*tuk*F *no*L *pa*F	[n]	Sunday
646	*pa*F	[n]	day
647	*yoʔ*F *ɣuk*F	[n]	o'clock
648	*mĭ nit*H	[n]	minute
649	*set*H *ka̠n*F	[n]	second
650	*neʔ*F *ko̠ŋ*L *tau*F	[n]	a.m. /morning
651	*myi*H *thoŋ*L *tau*F	[n]	p.m. /afternoon
652	*hi̠t*H *neʔ*F	[n]	day before yesterday
653	*soŋ*F *pho*H *neʔ*F	[n]	day ater tomorrow
654	*ă tso̠ŋ*L *khyeʔ*H	[n]	last month
655	*thoŋ*L *khyeʔ*H	[n]	next month
656	*ă na*H *tsin*F	[n]	this year
657	*ă na̠k*H	[n]	last year
658	*thoŋ*L *tsin*F	[n]	next year
659	*ka*F *ne̠ŋ*H	[n]	ancient times
659a	*ka*F *choʔ*H	[n]	ancient times

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659b	_h̲it_H _phyoŋ_L	[n]	ancient times
660	_tă pa_F _pa_F	[n]	someday /ever
660'	_tă neʔ_F _neʔ_F	[n]	someday /ever
661	_h̲it_H	[n]	before
662	_thoŋ_F _phyoŋ_L	[n]	afterward
663	_ă h̲it_F	[n]	beginning
663a	_soŋ_F _h̲it_H	[n]	first
664	_ă thoŋ_H	[n]	end /limit
664a	_ă pin_F	[n]	end /last/ finish
665	–		next
666	_ă k̲øm_F	[n]	zero
667	_tă tshe_F _ta_F	[n]	eleven
668	_tă tshe_L _šit_H	[n]	twelve
669	_tă tshe_L _sam_F	[n]	thirteen
670	_tă tshe_L _pyit_F	[n]	fourteen
671	_tă tshe_L _ŋo_H	[n]	fifteen
672	_tă tshe_L _khyauk_H	[n]	sixteen
673	_tă tshe_L _n̲at_H	[n]	seventeen
674	_tă tshe_L _šeʔ_H	[n]	eighteen
675	_tă tshe_L _kuk_F	[n]	nineteen
676	_sam_F _tshe_F	[n]	thirty
677	_pyit_F _tshe_F	[n]	forty
678	_ŋo_H _tshe_F	[n]	fifty
679	_khyauk_H _tshe_F	[n]	sixty
680	_n̲at_H _tshe_F	[n]	seventy
681	_šeʔ_H _tshe_F	[n]	eighty
682	_kuk_F _tshe_F	[n]	ninety
683	_tă ta̲u̲ŋ_F	[n]	thousand
683'	_tă khyiŋ_H	[n]	thousand
684	_tă t̲u̲k_F	[n]	ten thousand
684'	_tă mun_F	[n]	ten thousand
684a	_tă t̲it_F	[n]	hundred thousand
684a'	_tă sen_F	[n]	hundred thousand
684b	_tă ky̲i̲t_F	[n]	million
684b'	_tă van_F	[n]	million
684c	_tă k̲u̲k_F	[n]	ten million
684c'	_tă ri_F	[n]	ten million
685	_ă ts̲o̲ŋ_H _tă lam_L	[n]	first
686	_ă ts̲o̲ŋ_H _šit_H _lam_L	[n]	second
687	_ă ts̲o̲ŋ_H _sam_F _lam_L	[n]	third

688	*tǎ yauk*F	[n]	alone /one person
689	*šit*H *yauk*F	[n]	two people
690	*sam*F *yauk*F	[n]	three people
691	*tǎ pa*F	[n]	the first day of a month
692	*šit*H *pa*F	[n]	the second day of a month
693	*sam*F *pa*F	[n]	the third day of a month
694	*lạŋ*F	[n]	number
694'	*pyit*F *tshe*F *pyaŋ*H *lạŋ*F	[n]	40th
695	–	[n]	kyat
696	*tsin*F	[n]	year
696'	*tǎ tsin*F	[n]	a year old
696"	*šit*H *tsin*F	[n]	two years old
697	*nuk*H *nau*H	[n]	baby
698	*ǎ teʔ*F	[n]	grown-up /adult
698a	*lau*L *teʔ*L	[n]	male adult
698b	*lau*L *teʔ*L *myị*H	[n]	female adult
698c	*myị*H *tsaŋ*F	[n]	married woman
699	–	[n]	old age
700	–	[n]	parents
701	*myi*L *loŋ*F	[n]	husband and wife
702	*phuk*H *phyit*H	[n]	ancestor
702a	*kạy*L	[n]	great-grandfather
703	*yoŋ*L *pha*L	[n]	nephew (son of brother)
703a	*tsǎ uk*F	[n]	nephew (son of sister)
704	*yoŋ*L *pha*L	[n]	niece (daughter of brother)
704a	*tsǎ uk*F	[n]	niece (daughter of sister)
705	–	[n]	cousin
706	*ma*H *hoʔ*H	[n]	relation /kindred
706a	*(ǎ pho*H*)*	[n]	father's brother
706a1	*phǒ mo*H	[n]	father's eldest brother
706a2	*phǎ leʔ*L	[n]	father's second eldest brother
706a3	*phǎ kan*F	[n]	father's second youngest brother
706a4	*phǎ thoŋ*H	[n]	father's youngest brother
706b	*yauk*F *pho*H	[n]	mother's brother
706b1	*ǎ phauŋ*H	[n]	mother's eldest brother
706b2	*ñǎ leʔ*L	[n]	mother's second eldest brother
706b3	*ñǎ kan*F	[n]	mother's second youngest brother
706b4	*ñǎ thoŋ*H	[n]	mother's youngest brother
706c	*ǎ voŋ*F	[n]	husband of father's sister
706d	*(ǎ pho*H*)*	[n]	husband of mother's sister

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706e	*ŋa*H *na*F	[n]	father's sister
706e1	*na*F *mo*H	[n]	father's eldest sister
706e2	*na*F *leʔ*L	[n]	father's second eldest sister
706e3	*na*F *kan*F	[n]	father's second youngest sister
706e4	*na*F *thoŋ*H	[n]	father's youngest sister
706f	(*ă myi*H)	[n]	mother's sister
706f1	*ŋa*H *mo*H	[n]	mother's eldest sister
706f2	*ŋa*H *leʔ*L	[n]	mother's second eldest sister
706f3	*ŋa*H *thoŋ*H	[n]	mother's youngest sister
706g1	(*ă myi*H)	[n]	wife of father's elder brother
706g2	(*ă myi*H)	[n]	wife of father's younger brother
706h	*yauk*F *myi*H	[n]	wife of mother's brother
707	*mă-au*H /*au*H-*ra*H	[v]	greeting /salute
708	–	[n]	Mister /Mrs. /Miss
709	–	[n]	answer
710	–	[n]	reply
711	*mo*H *pho*H	[n]	male teacher
711a	*mo*H *myi*H	[n]	female teacher
712	*cuŋ*F *nau*H	[n]	male pupil
712a	*cuŋ*F *myi*H	[n]	female pupil
713	–	[n]	host /master
714	–	[n]	king
715	*mau*H *vin*L *pyu*F	[n]	officer /official
716	*phă ka*L *pyu*F	[n]	merchant /trader
717	–	[n]	doctor
718	*mau*H *tso*H	[n]	profession /occupation
718a	*au*L *cauŋ*F	[n]	chairman /president
718b	*mau*H *saŋ*F	[n]	secretary
718c	*ŋauy*F *tsam*L	[n]	treasurer
718d	*că re*H	[n]	clerk
719	*khyit*F *ɣøm*F *yauk*F	[n]	cripple
719a	*khyit*F *kyuk*L *yauk*F	[n]	cripple
720	*khuk*H *pyu*F	[n]	thief
720'	*khuk*H *su*F	[n]	thief
721	*pyă ko*F	[n]	fool
722	*nak*H *lam*L	[n]	mind /feeling
723	*yap*F *moʔ*F	[n]	dream
723V	*yap*F *moʔ*F *mă-moʔ*F /*moʔ*L-*ra*H	[v]	dream
724	*lă se*H	[n]	sense /meaning
725	*muŋ*H	[n]	country

725a	*muŋ*H *tan*L	[n]	sovereign state /nation
726	–	[n]	world
727	–	[n]	temple
728	*cuŋ*F	[n]	school
728a	*pyit*F *tan*H *cuŋ*F	[n]	elementary school
728a'	*o*L *tsoŋ*H *cuŋ*F	[n]	elementary school
728b	*šeʔ*H *tan*H *cuŋ*F	[n]	junior high school
728b'	*ă leʔ*H *tsoŋ*H *cuŋ*F	[n]	junior high school
728c	*tshe*L *tan*H *cuŋ*F	[n]	high school
728c'	*ă thoʔ*H *tsoŋ*H *cuŋ*F	[n]	high school
729	*kat*H	[n]	market
729'	*kay*F	[n]	market (in Shan state)
730	*seyn*L	[n]	store /shop
731	*na*F *coʔ*F *ɣo*F	[n]	residence
732	*ɣam*F *kyo*L *choŋ*L	[n]	neighbour
733	*ă kyo*L	[n]	border
733a	*muk*H *kyo*L	[n]	boundary /frontier
734	*pa*F *thuk*H	[n]	east
735	*pa*F *voŋ*F	[n]	west
736	*ɣit*F *paŋ*L	[n]	south
737	*ɣit*F *møm*F	[n]	north
738	*hit*H *khøm*L *ɣaŋ*F	[n]	direction
739	*ă thoŋ*F	[n]	point /tip
740	*ă haŋ*F	[n]	length
741	*ă pyi*F	[n]	width
742	*ă leŋ*F	[n]	breadth /width
743	*ă kham*H	[n]	beside /alongside
744	*ă yeŋ*F *laŋ*H	[n]	surrounding /environment
745	*hit*H *khøm*L *šat*H	[n]	surface
746	*nauŋ*F *thoŋ*H *šat*H	[n]	reverse
747	*ă ɣap*F	[n]	shade
748	*ă khuk*F	[n]	middle
749	*ă thay*L	[n]	bottom
750	*ă laŋ*H	[n]	circle
751	*mauk*H *khyaŋ*F	[n]	line
752	*ă so*L	[n]	mark /sign
752a	*sŏ tsham*L	[n]	seal /stamp
753	*ă lo*F	[n]	form /shape
753'	*ă yauŋ*L	[n]	form /shape
754	*yauk*F-*khoŋ*L *ŋo*H	[n]	each /everyone

754a	*lam*L-*khoŋ*L *ŋo*H	[n]	each thing /everything
755	*tă-ca*L *ca*L	[n]	anything /something
755'	*tă-nam*F *nam*F	[n]	anything /something
755"	*tă-ca*L *tă-nam*F	[n]	anything /something
756	*nau*H *šoʔ*H *mă-vo*L */vo*H-*ra*H	[v]	chew
757	*mă-yoʔ*F */yoʔ*L-*ra*H	[v]	lick
758	*mă-myaŋ*F */myaŋ*L-*ra*H	[v]	bark
758a	*(lă kha*L*) mă-ɣeʔ*F */ɣeʔ*L-*ra*H	[v]	(dog) bark
759	*mă-myaŋ*F */myaŋ*L-*ra*H	[v]	(animal) howl /(bird) sing
759a	*(ɣoʔ*F*) mă-tø̰m*F */tø̰m*L-*ra*H	[v]	(animal) howl /(bird) sing
760	–	[v]	notice
760a	*mă-pøm*L */pøm*H-*ra*H	[v]	get a hint /guess
761	*mă-tsham*L */tsham*H-*ra*H	[v]	remember
762	*mă-tam*L-*pøm*L */tam*L-*pøm*H-*ra*H	[v]	remind /recollect
763	*mă-lam*F */lam*L-*ra*H	[v]	believe
764	*myoʔ*F *hṵy*F *mă-hṵy*F */hṵy*L-*ra*H	[v]	lose one's bearings
764a	*khyo*F *mă-ŋṵŋ*L */ŋṵŋ*H-*ra*H	[v]	get astray
765	*mă-lam*H *mă-kho*F *mă-mṵŋ*F */mṵŋ*L-*ra*H	[v]	suspect
766	*mă-myit*L */myit*H-*ra*H	[v]	question /ask
767	–	[v]	answer
767a	*mă-tam*L-*t̰a*H */tam*L-*t̰a*H-*ra*H	[v]	talk back
767b	*mă-phyit*F */phyit*L-*ra*H	[v]	reply /answer (question)
768	–	[v]	bid /order
769	*mă-t̰am*H */t̰am*H-*ra*H	[v]	prohibit /forbid
770	*mă-t̰a̰uŋ*H *pan*L */t̰a̰uŋ*H *pan*H-*ra*H	[v]	apologize
771	*mă-chauŋ*L */chauŋ*H-*ra*H	[v]	praise
772	–	[v]	scold
773	*mă-mṵk*H */mṵk*H-*ra*H	[v]	cheat
774	*no*F *mă-kham*F */kham*L-*ra*H	[v]	suffer /distressing /painful
774a	*na̰k*H *mă-ŋay*F */ŋay*L-*ra*H	[v]	be miserable
775	*mă-ky̰i*H *khyak*H */ky̰i*H *khyak*H-*ra*H	[v]	suffer
775a	*ɣuk*L *khay*L *mă-h̰uk*H */h̰uk*H-*ra*H	[v]	meet difficulty
776	*mă-chi*H */chi*H-*ra*H	[v]	be worried
776a	*myit*L *mă-lauŋ*F */lauŋ*L-*ra*H	[v]	be worried
776b	*myit*L *mă-la*L */la*H-*ra*H	[v]	be worried
777	*mă-lam*F */lam*L-*ra*H	[v]	feel relieved
778	*mă-c̰it*H *(teʔ*F*) /c̰it*H *(teʔ*L*)-ra*H	[v]	love
779	*ca̰uŋ*L *mă-m̰oʔ*H */m̰oʔ*H-*ra*H	[v]	pray
780	*mă-p̰a*H-*chauŋ*L */p̰a*H-*chauŋ*H-*ra*H	[v]	worship
780a	*mă-ŋa̰uy*H */ŋa̰uy*H-*ra*H	[v]	worship /make a devotional offering

781	*lak*F *mă-ɣu*H-*yu*F /*ɣu*H-*yu*L-*ra*H	[v]	imitate
782	*mă-ta̲u̲*H /*ta̲u̲*H-*ra*H	[v]	compare
783	*mă-khyin*F /*khyin*L-*ra*H	[v]	select /choose
784	*mă-phan*H /*phan*H-*ra*H	[v]	draw /substract
785	–	[v]	weigh
785a	*mă-ka̲*H /*ka̲*H-*ra*H	[v]	measure /gauge
785b	*mă-lak*F /*lak*L-*ra*H	[v]	measure (by volume)
786	*mă-poŋ*H *thauk*H /*poŋ*H-*thauk*H-*ra*H	[v]	help
787	*mă-tso̲*L-*ca̲u̲k*H /*tso̲*L-*ca̲u̲k*H-*ra*H	[v]	foster /bring up
788	*mă-khau*F /*khau*L-*ra*H	[v]	keep /raise
789	*ŋă ta̲u̲y*L *mă-ta̲u̲y*L /*ta̲u̲y*H-*ra*H	[v]	fish
790	*mă-ta̲u̲ŋ*L /*ta̲u̲ŋ*H-*ra*H	[v]	catch
791	*mă-tsa̲p*H /*tsa̲p*H-*ra*H	[v]	grasp /grip
791a	*mă-tshu*F /*tshu*L-*ra*H	[v]	grasp /grip
792	*mă-khyo*H /*khyo*H-*ra*H	[v]	drop
793	*mă-kauk*F /*kauk*L-*ra*H	[v]	pick up
794	*mă-šă pye̲ʔ*H /*šă pye̲ʔ*H-*ra*H	[v]	abondon /cast away
795	*mă-kan*F /*kan*L-*ra*H	[v]	be lost /disappear
796	*myit*F *kauŋ*F *mă-myuk*F /*myuk*L-*ra*H	[v]	bury
797	*mă-ŋø̲ʔ*H /*ŋø̲ʔ*H-*ra*H	[v]	cover
798	*mă-ka̲k*H /*ka̲k*H-*ra*H	[v]	pack /wrap /envelop
799	*mă-lo̲ŋ*L /*lo̲ŋ*H-*ra*H	[v]	hang down
800	*mă-lo̲ŋ*L /*lo̲ŋ*H-*ra*H	[v]	hang
801	*mă-tsho̲ʔ*H /*tsho̲ʔ*H-*ra*H	[v]	connect
801a	*mă-ta̲u̲y*L /*ta̲u̲y*H-*ra*H	[v]	fasten /bind /tie
802	–	[v]	wind
803	*(tsa*L*) mă-thuk*H /*thuk*H-*ra*H	[v]	knit /weave
804	*mă-ɣoʔ*F /*ɣoʔ*L-*ra*H	[v]	weave
805	*mă-myak*L-*taŋ*L /*myak*L-*taŋ*H-*ra*H	[v]	bind
806	–	[v]	fasten /tighten
807	*mă-ko̲ʔ*H /*ko̲ʔ*H-*ra*H	[v]	knock
807a	*mă-peʔ*F /*peʔ*L-*ra*H	[v]	knock /tap /clap
807b	*mă-thøm*F /*thøm*L-*ra*H	[v]	hammer /thamp
808	*mă-ka̲u̲y* /*ka̲u̲y*L-*ra*H	[v]	be bent/ curved
808a	*mă-ŋa̲u̲k*H /*ŋa̲u̲k*H-*ra*H	[v]	be bent/ curved
809	*mă-ŋa̲u̲k*H /*ŋa̲u̲k*H-*ra*H	[v]	bend
809a	*mă-ŋa̲u̲k*H /*ŋa̲u̲k*H-*ra*H	[v]	bend /droop /bow
810	*mă-phyoʔ*H /*phyoʔ*H-*ra*H	[v]	break /destroy
811	*mă-thauŋ*L /*thauŋ*H-*ra*H	[v]	pound /hull
812	*mă-kyak*F /*kyak*L-*ra*H	[v]	grind

813	*mǎ-cat*F /*cat*L-*ra*H	[v]	be torn
814	*mǎ-chat*H /*chat*H-*ra*H	[v]	break /tear
815	*mǎ-koʔ*F /*koʔ*L-*ra*H	[v]	be broken
815a	*šit*H *koŋ*F *mǎ-kyeŋ*L /*kyeŋ*H-*ra*H	[v]	be cut in half
816	*mǎ-ɣauk*F /*ɣauk*L-*ra*H	[v]	mow /cut
816a	*mǎ-ñe̱ŋ*L /*ñe̱ŋ*H-*ra*H	[v]	cut (with scissors)
817	*mǎ-le̠ʔ*H *kya̠uk*H /*le̠ʔ*H *kya̠uk*H-*ra*H	[v]	dry
818	*mǎ-phyi*H /*phyi*H-*ra*H	[v]	cultivate
819	*mǎ-ho̱*L /*ho̱*H-*ra*H	[v]	plant
820	(*hǎ̱ vo*L) *mǎ-khyo*H /*khyo*H-*ra*H	[v]	sow
821	(*hǎ̱ vo*L) *mǎ-sin*L /*sin*H-*ra*H	[v]	scatter
822	*ǎ kyo̱*F *mǎ-to̱*L /*to̱*H-*ra*H	[v]	divide
822	*mǎ-khoʔ*H /*khoʔ*H-*ra*H	[v]	divide equally
822b	*mǎ-keŋ*F /*keŋ*L-*ra*H	[v]	distribute
823	*mǎ-kyi̠n*H *teʔ*F /*kyi̠n*H *teʔ*L-*ra*H	[v]	attach
824	*mǎ-cin*L-*yeʔ*F /*cin*L-*yeʔ*L-*ra*H	[v]	line up /dispose
825	*mǎ-keŋ*L-*pyo̱*F /*keŋ*L-*pyo̱*L-*ra*H	[v]	distribute
826	*ca̠uŋ*F *hu̠*H *mǎ-pyit*L /*pyit*H-*ra*H	[v]	present
827	*mǎ-kheŋ*L-*yu*F /*kheŋ*L-*yu*L-*ra*H	[v]	receive /accept
828	*mǎ-po̱*F /*po̱*L-*ra*H	[n]	embrace
828a	*mǎ-voʔ*F /*voʔ*L-*ra*H	[n]	hold up in one's arm
829	*mǎ-voʔ*F /*voʔ*L-*ra*H	[v]	shoulder
830	*mǎ-paʔ*F /*paʔ*L-*ra*H	[v]	bear on one's back
831	*mǎ-ta̠y*L-*yu*F /*ta̠y*L-*yu*L-*ra*H	[v]	carry
832	*mǎ-kau*H-*teʔ*F /*kau*H-*teʔ*L-*ra*H	[v]	cross /ferry
833	*mǎ-fin*F /*fin*L-*ke̠ʔ*H-*ra*H	[v]	send
834	*mǎ-hin*F /*hin*L-*ra*H	[v]	hurry
834'	*mǎ-hi̠n*F /*hi̠n*L-*ra*H	[v]	hurry
835	*mǎ-tam*L-*lo*H /*tam*L-*lo*H-*ra*H	[v]	return /come back
836	*mǎ-cø*H / *cø*H-*ra*H	[v]	arrive
837	*mǎ-lay*L *phyit*H /*lay*L *phyit*H-*ra*H	[v]	pass
838	*mǎ-thaŋ*L /*thaŋ*L-*ra*H	[v]	stop /halt
838a	*mǎ-thaŋ*L-*pye̱ʔ*H /*thaŋ*L-*pye̱ʔ*H-*ra*H	[v]	stop
839	*mǎ-thaŋ*L-*no̱ŋ*F /*thaŋ*L-*no̱ŋ*L-*ra*H	[v]	stop oneself
840	*mǎ-laŋ*L /*laŋ*H-*ra*H	[v]	fall down
841	*mǎ-phøʔ*H /*phøʔ*H-*ra*H	[v]	issue
842	*mǎ-ke̠ʔ*H /*ke̠ʔ*H-*ra*H	[v]	let s.o. come in
843	*mǎ-voʔ*F /*voʔ*L-*ra*H	[v]	lift
843a	*mǎ-ta̠u*F /*ta̠u*L-*ra*H	[v]	raise
843b	(*loʔ*F) *mǎ-ta̠u*F /*ta̠u*L-*ra*H	[v]	raise (one's hand)

844	(ɣitF) mǎ-kheŋF /kheŋL-raH	[v]	draw up (water)
845	(myiL) mǎ-teʔH /teʔH-raH	[v]	kindle (fire)
846	mǎ-lauL-phyoʔH /lauL-phyoʔH-raH	[v]	put out /extinguish
846a	myiL mǎ-seʔH /seʔH-raH	[v]	put out /extinguish (fire)
847	mǎ-kyatF /kyatL-raH	[v]	smear /paint
847a	mǎ-satH /satH-raH	[v]	apply (paint or earth oil)
848	mǎ-tsaukH /tsaukH-raH	[v]	build
849	mǎ-šauŋL-yauŋH /šauŋL-yauŋH-raH	[v]	adorn /decorate
850	mǎ-chiF /chiL-raH	[v]	use /utilize /employ
851	mǎ-moʔH foŋH /moʔH foŋH-raH	[v]	request /ask permission
851a	mǎ-moʔH /moʔH-raH	[v]	ask /demand
851b	mǎ-pyaŋF /pyaŋL-raH	[v]	order
852	ɣoF mǎ-yuF /yuL-raH	[v]	undertake
853	mǎ-hamL-phyitH /hamL-phyitH-raH	[v]	decide
854	ǎ khaŋH mǎ-pyitL /pyitL-raH	[v]	admit /grant /allow
854a	ǎ khaŋH pyitL-laʔF		allow me!
854	ɣǎ poF mǎ-khyatH /khyatH-raH	[v]	excuse /forgive
855	mǎ-ŋakF /ŋakL-raH	[v]	refuse
856	mǎ-vaŋH /vaŋH-raH	[v]	approve
856a	mǎ-tukL-yuF /tukL-yuL-raH	[v]	approve
857	mǎ-ŋakF /ŋakL-raH	[v]	oppose
858	myanH myoH	[v]	contest /dispute
858a	mayF mǎ-hiH /hiH-raH	[v]	contest /dispute
859	–	[v]	promise
860	mǎ-koŋH-loH /koŋH-loH-raH	[v]	depart
861	mǎ-ŋaŋL /ŋaŋH-raH	[v]	be fed up
862	mǎ-auŋF /auŋL-raH	[v]	succeed
863	mǎ-sømH-pyaukF /sømH-pyaukL-raH	[v]	fail
863a	ǎ khyoL mǎ-yauŋH	[v]	be defeated
864	mǎ-katH šatH /katH šatH-raH	[v]	make a mistake
865	mǎ-pøH-loF /pøH-loL-raH	[v]	become /be
866	mǎ-pøH /pøH-raH	[v]	arise /happen
867	mǎ-hitF /hitL-raH	[v]	begin
868	–	[v]	begin
869	mǎ-pinF /pinL-raH	[v]	finish /end
870	mǎ-thutF /thutL-raH	[v]	change
871	–	[v]	change
872	kauŋF thaH mǎ-katH /katH-raH	[v]	take one's place
873	mǎ-coH-thaH /coH-thaH-raH	[v]	replace
874	mǎ-thaŋL-pyeʔH /thaŋL-pyeʔH-raH	[v]	cease

874a	*(muk*L*) mă-ŋin*F */ŋin*L*-ra*H	[v]	(rain) cease
875	*mă-thaŋ*L*-noŋ*F */thaŋ*L*-noŋ*F*-ra*H	[v]	stop
876	*mă-tshoʔ*H */tshoʔ*H*-ra*H	[v]	continue
877	*mă-tshoʔ*H*-tsauy*L */tshoʔ*H*-tsauy*H*-ra*H	[v]	continue
878	*mă-ham*F*-phauŋ*F */ham*F*-phauŋ*L*-ra*H	[v]	gather /assemble
879	*mă-huy*L */huy*H*-ra*H	[v]	move
880	*mă-fak*H */fak*H*-ra*H	[v]	sway
881	*mă-laŋ*H *kham*H */laŋ*H *kham*H*-ra*H	[v]	turn round
882	*mă-kauy*F */kauy*L*-ra*H	[v]	turn to /turn
882a	*myoʔ*F *no*F *mă-ɣaŋ*F */ɣaŋ*L*-ra*H	[v]	face to
883	*mă-kyo*L */kyo*H*-ra*H	[v]	go down
884	*(ă keŋ*F*) mă-yauk*F */yauk*L*-ra*H	[v]	(grass) grow
885	*mă-ñuk*H */ñuk*H*-ra*H	[v]	wither
886	*(pin*L *pu*H*) mă-pu*H */pu*H*-ra*H	[v]	bloom
887	*(ă ši*L*) mă-tsauy*L */tsauy*H*-ra*H	[v]	grow /bear (fruit)
888	*mă-myo*H*-lauk*F */myo*H*-lauk*L*-ra*H	[v]	increase
889	*mă-yøm*F */yøm*L*-ra*H	[v]	decrease
890	*šøm*F *mă-neŋ*F */neŋ*L*-ra*H	[v]	smell
891	*mă-poŋ*F */poŋ*L*-ra*H	[v]	glitter /shine
892	*mă-khay*H */khay*H*-ra*H	[v]	freeze
893	*mă-ɣaŋ*L */ɣaŋ*H*-ra*H	[v]	melt /solve
894	*mă-khyam*H*-sa*F */khyam*H*-sa*L*-ra*H	[v]	recover /heal
895	*mă-taŋ*F */taŋ*L*-ra*H	[v]	remain
895'	*mă-taŋ*F*-choʔ*H */taŋ*F*-choʔ*H*-ra*H	[v]	remain
896	*mă-lauk*F */lauk*L*-ra*H	[v]	be sufficient
897	*mă-ɣo*F */ɣo*L*-ra*H	[v]	need
897a	*mă-cha*L */cha*H*-ra*H	[v]	need
898	*mă-noŋ*F */noŋ*L*-ra*H	[v]	let s.o.(go)(causative)
899	*mă–nuk*F */nuk*L*-ra*H	[v]	want to(go)(Desiderative)
900	–		be–ed(passive)
901	*mă-noʔ*F */noʔ*L*-ra*H	[v]	deep
902	*mă-noʔ*F	[v]	shallow
903	*mă-pat*F */pat*L*-ra*H	[v]	thick /burly
904	*mă-yoŋ*L */yoŋ*H*-ra*H	[v]	fine /slender
905	*mă-ŋay*F */ŋay*L*-ra*H	[v]	fine /detailed
906	*ă kyo*F *mă-leŋ*F */leŋ*L*-ra*H	[v]	rough /coarse
907	*ă ɣaŋ*L *mă-kin*H */kin*H*-ra*H	[v]	dense
908	*mă-ɣaŋ*L */ɣaŋ*H*-ra*H	[v]	sparse
909	*mă-cin*F */cin*L*-ra*H	[v]	sour
910	*mă-neŋ*F */neŋ*L*-ra*H	[v]	stinking /smelling

911	*mǎ-myọ?*H /*myọ?*H-*ra*H	[v]	delicious
912	–	[v]	unsavory
913	*mǎ-cam*L /*cam*H-*ra*H	[v]	raw
914	*mǎ-kọm*F /*kọm*L-*ra*H	[v]	be empty
914'	*ǎ kọm*F *mǎ-ŋat*L /*ŋat*L-*ra*H	[v]	be empty
915	*pyit*F *khyuk*F *mǎ-po*F /*po*L-*ra*H	[v]	square
916	*mǎ-pye*L /*pye*H-*ra*H	[v]	flat
917	*mǎ-kauy* /*kauy*L-*ra*H	[v]	crooked /bent
917a	*mǎ-ŋauk*H /*ŋauk*H-*ra*H	[v]	crooked /bent
918	*kau*F *mǎ-tshø*H /*tshø*H-*ra*H	[v]	cheap
918a	*kau*F *mǎ-khyam*H-*sa*F /*khyam*H-*sa*L-*ra*H	[v]	cheap
919	*kau*F *mǎ-ɣi*L /*ɣi*H-*ra*H	[v]	dear /expensive
920N	*tay*F *saŋ*F	[n]	rich
920Na	*tay*F *tsuk*L	[n]	rich
920Nb	*sǎ the*H	[n]	rich
921	*mǎ-šo*H-*cin*F /*šo*H-*cin*L-*ra*H	[v]	poor
921N	*chuk*H *tso*L	[v]	poor man
922	*myit*F *løm*H-*pho*H *ru*F *mǎ-ŋat*L /*ŋat*L-*ra*H	[v]	interesting
922a	*myit*F *mǎ-løm*H /*løm*H-*ra*H	[v]	be interested in
923	*pyo*L *pho*H *ru*F *mǎ-ŋat*L /*ŋat*L-*ra*H	[v]	happy
923'	*pyo*L *mǎ-kay*F /*kay*L-*ra*H	[v]	happy
924	*mǎ-kyo?*F /*kyo?*L-*ra*H	[v]	cool
925	*cheŋ*L *cuk*F *tak*F *mǎ-ŋat*L /*ŋat*L-*ra*H	[v]	calm /quiet
926	*mǎ-kǎ ru*F /*kǎ ru*L-*ra*H	[v]	noisy
927	*mǎ-la*H-*cha*L /*la*H-*cha*H-*ra*H	[v]	dangerous
928	*mau*H *mǎ-myo*L /*myo*H-*ra*H	[v]	busy
929	*mǎ-no?*H /*no?*H-*ra*H	[v]	early
930	*mǎ-nay*H /*nay*H-*ra*H	[v]	late
931	*yap*F *ŋø*H *mǎ-ŋø*H /*ŋø*H-*ra*H	[v]	sleepy
932	*mǎ-phan*L /*phan*H-*ra*H	[v]	itching
933	*mǎ-san*F /*san*L-*ra*H	[v]	clean
934	*mǎ-ɣit*F /*ɣit*L-*ra*H	[v]	ugly
935	*myo?*F *nọ*F *mǎ-lauŋ* /*lauŋ*L-*ra*H	[v]	be ashamed
936	*cha?*H *pho*H *ru*F *mǎ-ŋat*L /*ŋat*L-*ra*H	[v]	abominable
937	*cit*H *te?*F *pho*H *ru*F *mǎ-ŋat*L /*ŋat*L-*ra*H	[v]	lovely /charming
938	*nak*H *khyak*H *pho*H *ru*F *mǎ-ŋat*L /*ŋat*L-*ra*H	[v]	pitiable
939	*mǎ-tiŋ*L-*man*L /*tiŋ*L-*man*H-*ra*H	[v]	honest
940	*mǎ-nau*H-*neŋ*H /*nau*H-*neŋ*H-*ra*H	[v]	tender /gentle
940a	*mǎ-kun*F-*chauŋ*F /*kun*F-*chauŋ*L-*ra*H	[v]	treat tenderly, fondly
941	*nak*H *mǎ-khyak*H /*khyak*H-*ra*H	[v]	kind

942	*mă-ɣoŋ*H-*tsin*H /*ɣoŋ*H-*tsin*H-*ra*H	[v]	stout
943	*na̱k*H *mă-po*F /*po*L-*ra*H	[v]	wise
943a	*myoʔ*F *yap*F *mă-la̱ŋ*F /*la̱ŋ*L-*ra*H	[v]	sharp /shrewd /astute
943b	*ă veʔ*F *mă-tso̱ŋ*L /*tso̱ŋ*H-*ra*H	[v]	be quick /be smart
944	*ŋa*L *mă-ɣi*L /*ɣi*H-*ra*H	[v]	great
944a	*myoʔ*F *no̱*F *mă-ɣi*L /*ɣi*H-*ra*H	[v]	great
944b	*ă ya*L *mă-ɣi*L /*ɣi*H-*ra*H	[v]	be in high official position
945	*mă-co̱ŋ*F /*co̱ŋ*L-*ra*H	[v]	expert /skillful
946	–	[v]	inexpert /unskillful
947	*mă-lauy*F /*lauy*L-*ra*H	[v]	easy
948	*mă-ɣuk*L /*ɣuk*H-*ra*H	[v]	difficult
949	–	[n]	normal /common
950	*mă-ă khyak*F /*ă khyak*L-*ra*H	[v]	important
951	-*thoŋ*H	[n]	best /most
951a	*ɣi*H-*thoŋ*H	[n]	biggest
951b	*kay*L-*thoŋ*H	[n]	best
951c	*mă-kay*L-*thoŋ*H	[n]	worst
951d	*tso*H-*thoŋ*H	[n]	eat most
952	*tă he̱ŋ*L	[n]	certain /some
953	*chă-ru*L		such /like this
954	*ăy-ru*L		such
955	–	[n]	which
956	*khă-ru*L		what kind of
956a	*khă-ca*L		what kind of
957	*kă ka̱y*L-*lay*F		especially
958	*kă kay*L	[n]	truly
959	–		just
960	*tă ci̱t*H-*re*L		quite /completely
961	*tshoʔ*H *tshoʔ*H	[n]	without fail /certainly
962	*phyat*F-*tsa*L	[n]	soon
962'	*phyat*F *phyat*F	[n]	soon
963	*tso*H-*me̱ŋ*H		slowly
964	*tă la̱ŋ*F *la̱ŋ*F	[n]	sometimes
965	*tă tsap*F *tă tsap*F	[n]	often
965a	*ă la̱ŋ*F *la̱ŋ*F	[n]	frequently
966	–		also
967	-*ši*L	[p]	still /yet
968	*ă kau*F *co̱ŋ*F	[n]	already
969	–		good morning
970	–		good night

971	–		good evening
972	–		please
973	–		excuse me
974	–		all right
975	–		congratulations!
976	*ăy-meŋ*H		and
977	*ăy-thoŋ*F-*meŋ*H		then
978	*ăy-muŋ*L		therefore /so /accordingly
979	*muŋ*F-*yaŋ*L		because /for
979a	-*ru*F *ɦeʔ*H		because /for
980	*ŋat*F-*ɣă re*L		but /however
981	*mă-ŋat*L-*loŋ*H-*ɦa*F		or
982	*ay*L-*au*L-*re*F	[n]	when
983	*mă–ši*L-*re*F	[n]	before
984	*ă vay*L *ă yeŋ*F	[n]	around
985	-*khyo*F	[p]	toward
986	*ă khuk*F	[n]	in /among /midst /mid /amid
987	*ă tha*H	[n]	instead of
987'	*kauŋ*F *tha*H	[n]	instead of
988	*h̲it*H-*meŋ*H		for /sake /owing /in order to
989	-*ɦeʔ*H *t̲in*L-*yaŋ*L		concerning /about
990	-*ɦeʔ*H	[p]	by
991	-*ɦeʔ*H	[p]	by
992	*mă–lo*L-*tsa*L	[p]	without –ing
992a	*mă-coʔ*L-*lo*L-*tsa*L		without (being)
992a'	*mă-po*F-*lo*L-*tsa*L		without taking
992b	*mă-k̲at*H-*lo*L-*tsa*L		without doing
993	–	[p]	etc.
994	-*n̲o*H *kho*H	[p]	about
995	-*tsa*L	[p]	only
996	-*ra*H	[p]	of
997	-*c̲oŋ*H	[p]	to
998	-*meŋ*H	[p]	from
999	*cø*H-*šoʔ*H		till /until
1000	*ă thoʔ*H	[n]	than