SOME NOTES ON PINOLTECA GRAMMAR *

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INTRODUCTION

This paper deals with some aspects of Pinolteca grammar. Pinolteca is a dialect of Tzeltal—a Mayan language— as spoken in the town known as Pinola or Villa las Rosas in the State of Chiapas of Southern Mexico.

PRONOMINALS

The following forms were found to occur. They are analyzed as shown below.

ho on	$ho^{?} + on$	I
ho [?] otik	$ho^{?} + ot + ik$	we
ho otikik	$ho^{?} + ot + ik + ik$	we
ha [?] at	ha? + at	you (sg.)
ha ?ateš	$ha^{?} + at + e^{8}$	you (pl.)

stukel		he, she, it
stukelik	stukel + ik	they

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The morph segments are classed into morphemes as follows:

$\{\text{ha?} \sim \text{ho?}\}$	demonstrative (see also Demonstratives)
{-on ≈ -ot}	1st person suffix
{-at}	2nd person suffix
	Note that 3rd person is not marked by a parallel suffix. See below.
{-ik ∞ -e ^š }	plural suffix

The forms included in the above pronominal set as third person pronominals do not belong to the same paradigm as the others. This is evidenced by the absence of the demonstrative stem in them.

Above, for the first person two plurals are listed: when {-ik} occurs once it is simple plural; when it occurs twice then it indicates a larger number of persons (around twenty or so).

The segmentation above is chosen since the same person and plural suffixes occur in verb paradigms. Two such paradigms are given below.

Paš Počon	I enter
Paš Počotik	we enter
Paš Počat	you enter
Paš Počateš	you (pl.) enter
Paš Poč	he (she, it) enters
Paš Počik	they enter
Patinon	I bathe
Patinotik	we bathe
Patinat	you bathe
Patinate [§]	you (pl.) bathe
Patin	he (she, it) bathes
Patinik	they bathe

NOMINAL DERIVATION BY PREFIXATION

a) Agentive prefix {h-∞ah-}. Some examples are given below. The prefix is underscored

hmantal messenger h Patel worker hlekop prosecutor hčamaw receiver hnopohel student my potter kahpaspin kantenta?in my blacksmith Pawahmilawal your murderer vahkintawan his musician

The agentive prefix is not the same as one of the possessive prefixes (first person), because 1) it occurs with non-possessed forms, and 2) it occurs with possessed forms of the first, second and third persons. See examples above.

Note that the alternant -ah occurs in the possessed forms only.

Below more examples are given to show the position of the agentive prefix in different constructions.

halpak tailor

hpaskak fire maker

This is analyzable into h the agentive prefix, plus pas the verbal root, plus kak fire the nominal root.

hlomkak robust person

This is analyzable into h the agentive prefix, plus lom the adjectival root, plus kak fire the nominal root.

kahpaspin my potter

This is analyzable into k the first person possessive, plus ah the agentive prefix, plus pas the verbal root, plus the pin the nominal root.

h ?atel

worker

This is analyzable into h the agentive prefix, plus ?atel. ?atel is further analyzable into ?at the verbal root, plus el the verbalizing suffix.

h Patelon

I am a worker

This is analyzable into $\underline{\underline{h}}$ plus $\underline{\underline{atel}}$ (see the example above) plus $\underline{\underline{-on}}$

In the examples cited above the agentive prefix is the first immediate constituent. The constituent that follows the agentive prefix can be simple or complex.

b) Feminine gender prefix {š-}.

Names of women when referred to are prefixed with this morpheme $\{\S_-\}$ (and suffix $\{-\text{on}\}\ I$ am which is also affixed). But when not referred to, that is, when the names are used to call the persons, this prefix $\{\S_-\}$ (as well as any pronominal suffix e. g. $\{-\text{on}\}$) is dropped. And when a person is addressed as Mrs. (name) or Miss (name), the prefix is optionally retained.

Some examples are given below for illustration.

šmalon špeton šwanahon šlupahon štinon šminkahon silon srosahon s ²asemon Maria
Petrona
Juana
Lupe
Tina
Dominga
Sitreria
Rosa
Asuncion

Note in the last three examples the feminine gender prefix has the form <u>s</u>-. This is due to regressive assimilation before an /s/. Thus the feminine gender prefix has at least two forms, namely <u>š</u> and <u>s</u>.

mal, pet, wanah, lupah, tin, etc. are the forms used to call the persons by name.

me [?]el <u>š</u>mal me [?]el mal Mrs. Maria Mrs. Maria

Note above that $\underline{\underline{s}}$ occurring optionally when $\underline{\underline{me}}$ $\underline{\underline{me}}$ Mrs. precedes the name.

The morphemes $\{\S_-\}$ and $\{-on\}$ above cannot be treated as a discontinuous $\{\S_- - - - on\}$ morpheme, because \S occurs when <u>on</u> does not occur. See the example above. This same argument holds for not treating $\{h---on\}$ below as a discontinuous morpheme.

The feminine gender prefix described above seems to occur with some animal names, as in ščuč frog.

There are many animal names where § is the initial, and this phoneme is an integral part of the roots in such cases. This should not be misidentified with the animal prefix § referred to above. Some examples are:

šanič ant, šenen zancudo, šohk arador, šoman heron.

c) Masculine gender prefix {h-}

Names of men when referred to or listed are prefixed with this morpheme (and the suffix -on *I* am is affixed). Otherwise the prefix (as well as suffix) is dropped, except when it is optionally retained as a term of address Mr. (name). The distribution of this morpheme thus parallels the distribution of the feminine gender prefix discussed above in b).

This morpheme {h-} should not be identified with the possessive prefix h- for the following reasons: 1) This masculine gender prefix can co-occur with the suffix -on I am, whereas the possessive prefix h- cannot. 2) This stands in contrast with the feminine gender prefix *s. In such examples as hnikolon and *snikolon the prefix alone formally identifies the person referred to as male or female.

Some examples are given below.

 $\begin{array}{lll} \frac{\text{hbetohon}}{\text{h}^{\S}\text{unon}} & \textit{Alberto} \\ \frac{\text{h}^{\S}\text{unon}}{\text{hpetulon}} & \textit{Juan} \\ \frac{\text{hpetulon}}{\text{hmariyanon}} & \textit{Mariano} \end{array}$

betoh, \S un, petul, etc. are the forms used to call the persons by name. When mamal Mr. precedes the name h- is optionally retained. mamalhbeto as well as mamalbeto occur.

NOMINAL BASE DERIVATION FROM NOUN ROOTS

A note of explanation is required regarding the numbering of suffixes in the following sections: For a suffix listed twice in two different sections such as III and IV, the same numbering is used. For example the suffix -bal is listed under g) in both the sections. When a suffix is listed and it is stated that it does not occur in both the entries, then it is to be understood that this suffix was found to occur in a related dialect. When it is listed, and it is stated that it does not occur after, for example, noun or verb roots, then it is to be understood that further data might probably fill in the gap, or that a negative statement would be a statement on distribution of that suffix, if further data fails to fill in the gap.

The table below summarizes the distribution of suffixes in sections III and IV.

a) Suffix {-il}.

Examples:

wišil	sister
sikil	cold
bikil	intestine
¢a ⁷ il	excrement

These words can be possessed and pluralized. All the nominal roots above are of CVC shape. The resulting forms after adding the suffix are regularly of CVCVC shape.

b) Suffix {-el}. This suffix was not found to occur after the nominal roots.

c) Suffix {-al}.

Examples:

kinal	time (kin fiesta)
lumal	pueblo (lum land)
ha?al	rain (ha? water)
lumilal	plains (*lumil land)
pihilal	intelligence (*pihil clearness)

These words can be pluralized and possessed.

All the nominal roots above are of CVC shape. The resulting forms are regularly formed having CVCVC or CVCVCVC shape depending on whether this suffix immediately follows the root or it follows another suffix. In two of the examples above, the suffix <u>-il</u> (described above in a) proceds the suffix a1. It is obvious that there is further semantic specialization in such cases. Witness the examples lumal pueblo and lumilal plains, both of which have the same root lum land.

d) The suffix {-ol}.

Examples:

holol	head
molol	landlord
wolol	ball
kolol	ball
somol	pit, hole
pohol	muleteer

These words can be possessed and pluralized.

All the nominal roots above are of CVC shape and the resulting forms after adding the suffix are regularly of CVCVC shape.

e) Suffix *{-ul}.

Unlike the suffix -el, this hypothetical suffix was not found to occur even with verbal roots. It is probable further data might reveal such

a suffix. If it is found that this suffix does not occur at all, it would be still interesting to examine the reasons for its absence, especially when all other vowels with 1 form suffixes.

It should be carefully noted that the suffixes having the general shape of VI have rather peculiar distribution. Some of them are retained when the words including them are pluralized or possessed. But there are others which are not retained when the words with these suffixes are possessed or pluralized. On the basis of distribution and semantic specialization two sets of suffixes of the general shape VI have to be set up. Further, these suffixes should be distinguished from the VI which is part of the root. This is further complicated by the occasional occurrence of the suffix only in possesed forms. Some examples:

holol head
hol my head
holtik our heads

Note in this example, that the suffix is lost when the form is possessed and pluralized. (The possessive h- has got assimilated.)

lobal banana
hlobal my banana
lobaltik bananas

Note in this example that the suffix is retained throughout.

čič blood hčičel my blood

Note in this example that the suffix appears only in the possessed form.

f) Suffix {-bil}.

Not many words with this suffix formed after nominal roots were found to occur. An example would be si bil firewood-seller formed after the nominal root si firewood.

This word can be pluralized.

g) Suffix {-bal}.

No example with a nominal root was found to occur.

h) Suffix {-lal}.

Example:

This word can be possessed and pluralized. Not many words with this suffix were found.

i) Some words are formed by adding two suffixes to the nominal root, one of them being a plural suffix in i), j) and k).
 Suffixes {il + -tik}.

These words can be possessed, and when possessed lose the -tik.

$$j$$
) Suffixes {-al $+$ -tik}.

Example:

When these words are possessed they lose the -tik.

k) Suffixes
$$\{-\text{tik} + -\text{il}\}$$
.

Examples:

tontikil	a lot of stones	
kontikil	all my sons	
te ?tikil	grove, a lot of trees	
wi¢tikil	a mountain range	

Note above the position of the suffix -tik in comparison with its position in i) and j). When pluralized -tik is not lost.

The suffix -tik has been described as a locative. But note the example kontikil above meaning all my sons.

l) Suffixes (-wan + eh).

The semantics of these suffixes is not very clear to me. Probably -wan refers to the habitual action, and the eh is an agentive suffix.

Examples:

poštawaneh doctor (poš medicine) kintawaneh musician

m - v) Suffixes [-ohel], [-ib], [-leh], [-lehal], [-aw], [-awil], [-awal], [-weh], [-i bal] and [-tamba], occurring with the verb roots (see section IV), were not found to occur with the noun roots.

NOMINAL BASE DERIVATION FROM VERB ROOTS

a) Suffix {-il}.

This suffix was not found to occur after verb roots.

b) Suffix {-el}.

Examples:

 *siwel
 fright (*siw to be scared)

 we rel
 eating (we red)

 *conel
 selling (*con to sell)

 ru*el
 drinking (?u* to drink)

All these words can be possessed. The verbal roots above have the CVC shape.

c) Suffix {-al}.

This suffix was not found to occur after verb roots.

d) Suffix (-ol).

Examples:

These words can be possessed and pluralized. The verbal roots have the CVC shape.

e) Suffix {-ul}.

This hypothetical suffix was not found to occur either with verb roots or with noun roots. (See III e.)

f) Suffix {-bil}.

Examples:

These words can be possessed. The verbal roots are of CVC shape.

g) Suffix {-bal}.

This hypothetical suffix was not found to occur after verb roots.

h) Suffix {-lal}.

This suffix was not found to occur after verb roots.

i) Suffixes {-il + -tik} expressing collective plural were not found to occur. Note suffix {-il} was itself not found to occur after verb roots. See above a) and compare with III i).

j) Suffixes {-al + -tik}.

These suffixes were not found to occur. (Same as above i.)

- <u>k</u>) Suffixes $\{-\text{tik} + -\text{il}\}$ were not found to occur. Same as above i) and j).
 - l) Suffixes {-wan + eh}.

Not many words with these suffixes were found. An example is provided below.

wa?tewaneh assistant (wa?te to assist)

 \underline{m}) Suffixes {-oh + -el}.

Examples:

nopohel student (nop to learn)

ilohel visitor (il to visit)
kanohel auctioner (kan to want)

ikohel messenger (ik to carry)

kakohel holder (kan to have)

All these words can be possessed and pluralized. For suffix <u>-el</u> see b) above.

n) Suffix {-ib}.

At least one example was found to occur with this suffix.

This word can be possessed.

o) Suffix {-leh}.

Examples:

nakleh a living place (kuš to live)

a seat (nak to sit)

These words can be possessed and pluralized. Verbal roots have the common CVC shape.

p) Suffixes {-leh + -al}.

Examples:

kušlehal life (kuš to live)
samlehal longing (sam to wish)
teklehal height (tek erect)

These words can be possessed. The verbal roots have CVC shape. For suffixes -leh and -al see above p) and III c).

q) Suffix {-aw}.

Examples:

milaw fighting or killing (mil to kill)
helaw people going to cinema (hel?)
we?aw eating (we? to eat)

These words can be pluralized and possessed. The verbal roots have CVC shape.

r) Suffixes $\{-aw + -il\}$.

Example:

Pilawil onlooker (Pil to see)

This word can be pluralized and possessed. Its verbal root has CVC shape.

s) Suffixes $\{-aw + -al\}$.

Example:

milawal fighter or killer (mil to kill)

This word can be possessed and pluralized. Its root has CVC shape. Compare the word formed from the same root in q) above. There is further semantic specialization here.

t) Suffixes $\{-iy\} + \{-weh\}$.

Examples:

maliyweh hoping (mal to hope)
yakiyweh being (yak to be)

These words can be possessed and pluralized. The roots have the CVC shape. {-iy} is a verbal suffix.

 \underline{u}) Suffixes $\{-i^7 + -bal\}$.

Examples:

lokesi?bal	exporter (lokes to take (bring) out)
éami bal	a place where animals are
	enclosed (cam to hoard)
tohki ?bal	a place where animals are
	born (tohk to be born)
čušuni?bal	a place for urinating (čušun urinate)

These words can be possessed and pluralized.

v) Suffix {-tamba}.

This suffix indicates reciprocal action.

Examples:

saktamba	seizing each other
piktamba	grasping each other's hair
nu¢tamba	flirting
hiptamba	driving each other
čaptamba	getting ready
Piltamba	visiting each other
čuktamba	commanding each other
miltamba	killing each other
mahtamba	fighting each other

All the roots in above examples have CVC shape.

NOMINAL BASE INFLECTION FOR PERSON

There are two sets of possessive prefixes indicating first person, second person and third person.

The occurrence of the sets of possessive prefixes is conditioned phonologically. Set 1 occurs before consonants, except /?/ and some /h/. Set 2 occurs before /?/ and some /h/, both of which are lost. They are:

set 1	set 2	
h-	k-	first person
Pa-	Paw-	second person
S-	y-	third person

Some examples are given below to illustrate this distribution.

kal	milpa
hkal	my milpa
Pakal	your milpa
skal	his (her, its) milpa
hoh	crane
hoh	my crane
[?] ahoh	your crane
shoh	his crane

Note in this example /h/+/h/ becomes /h/. And /h/ after /s/ is retained. Elsewhere sometimes /h/ is lost in this position. See next example. So there are two kinds of morphophonemic $\{/H/\}$: one firm and the other infirm. The latter seems to be the most common.

hol	head	
hol	my head	
?ahol	your head	
sol	his (her, its) head	

Note in this example /h/ after /s/ is lost. This is an example for the commoner infirm {/H/}.

hat slice
hat my slice
rahat your slice
sat his (her, its) slice

Note the morpropronemics as in the above example.

pišol hat
hpišol my hat

apišol your hat
špišol his (her, its) hat

Note in this example /s/ in the environment of $/\frac{8}{}$ (and $/\frac{8}{}$ becomes $/\frac{8}{}$). This is an example or regressive assimilation.

Paskalpanelakaskalmy panelaPawaskalyour panelayaskalhis panela

This is an example for set 2.

NOMINAL BASE INFLECTION FOR NUMBER

<u>a)</u> Number of the things possessed (that is, the plural of the thing possessed) may be indicated, though it is not always marked. The plurality may be marked by <u>-etik</u> which is analyzable into <u>-et</u> + -ik (see below).

Example:

hmačit my machete hmačitetik my machetes

<u>b)</u> Number of the possessor of things (that is, the plural of the possessor) is usually indicated. Singular is not marked. The plural is marked by the suffixes <u>-tik</u> and <u>-tikik</u> for the first person plural possessors, and by suffix <u>-ik</u> for the second and third person plural possessors.

Some examples are given below. Note <u>-tikik</u> is used when the first person plural is a large number, around twenty or more. Otherwise the simple plural -tik is used.

head hol my head hol our heads holtik Pahol vour head Paholik your (pl.) heads Pso1 his (her, its) head their heads solik hpišol my hat our hats hpišoltik hpišoltikik our hats Papišol vour hat Papišolik your (pl.) hats špišo1 his (her, its) hat špišolik their hats

Note that -tikik is simply composed of the two plural suffixes occurring in first person, and second and third persons. The interpretation given here to -tikik as meaning around twenty or more fits well with the rest of the semantics involving numbers in this language. See XIII Numerals and XIV Nominal Classifiers. The other interpretation that could be suggested is that -tik is exclusive plural, and -tikik is inclusive plural meaning to include the person or persons addressed.

c) When not possessed, the plural is indicated by <u>-etik</u>, analyzable into <u>-et</u> and <u>-ik</u>. <u>-et</u> indicates that the thing or things are not possessed. Note <u>-ik</u> is used to indicate plurality even when possessed. There is some ambiguity as to when the plural is to be used. That is, the singular and plural dichotomy is not one of "one" and "more than one". When the numbers reach about twenty, the plural suffix will be used, if it is used at all. This situation agrees very well with the vigesimal character of the numeral system. See classifiers (XIV) and numerals (XIII) for similar categorization.

Some examples:

hun holol 1 head Pošlahuneb holol 13 heads htab hololetik 20 heads hbak hololetik 400 haeds hun Pelawil 1 face Pošlahuneb Pelawil 13 faces Phtab Pelawiletik 20 faces hbak ?elawiletik 400 faces

d) A probable collective plural.

Examples:

lobal	banana
lobalaltik	lots of bananas
nah	house
nahnahtik	lots of houses
snahnahtik	all his houses

In the above example <u>-altik</u>, analyzable into <u>-tik</u> and the rest of it, and <u>-nahtik</u>, analyzable in the same way into <u>-tik</u> and the rest of it seem to indicate collective plural. Because of lack of further examples, the collective plural is tentatively analyzed as having two morphemes as follows. The first morpheme has positional variants, which are reduplicative morpheme of the final syllable of the stem (as <u>-al</u> and <u>-nah</u> above). The second morpheme is <u>-tik</u>, which preferably is not to be identified with the suffix <u>-tik</u> of the first person plural. The first person plural suffix <u>-tik</u> marks a grammatical contrast with that of second and third person plurals, and further it is a marker of the plural of the possesor. The suffix <u>-tik</u> here, however, is a plural marker of things possessed or not possessed.

It is possible that $\underline{Vl} + \underline{tik}$ might indicate collective plural irrespective of the final \underline{VC} of the stems. If that is true then there are two collective plurals: One is composed of the reduplicative of the final \underline{VC} of the stem followed by $\underline{-tik}$. The second is composed of \underline{Vl} followed by $\underline{-tik}$.

a) Suffix {-tay}.

Probably a causative marker.

Examples:

koltay helps

čomtay wishes for a girl

kebtay belches

b) Suffixes $\{-ta + -lan + -tik\}$.

These suffixes together indicate a sort of distributive action, where a group of something is involved needing individual attention. -tik is plural marker. -ta (and -tay) a causative marker, and this is established on the basis that -talantik and -taylantik (see below) do not contrast semantically. -tay is established as a causative marker elsewhere. See f) below. -lan is considered to be the proper distributive suffix.

Examples:

puktalantik beat many...

haetalantik smell (examine) many things

čomtalantiksell many thingskiktalantikhate many peoplekehtalantikguard many things

c) Suffixes {-tay + -lan + -tik}.

Semantic implications are the same as that of b) above. For formal analysis see above.

Examples:

kawtaylantik greet many people

 \underline{d}) Suffix $\{-ah\}$.

This is an intransitive marker.

Examples:

Pakotah place

Pan circle, (people?)

Panimahencirclekahtahturn intonahtahfeel

The roots are of CVC shape. /ot/ in ?akotah and /im/ in ?animah could not be identified. /t/ and /k/ in kahtah and nahkah are stem formatives which are not dealt with in this paper.

e) Suffixes {-ub ∞ -ob}.

These are intransitive markers.

Examples:

	hide oneself
	drink oneself
	become slippery
194	become sour (rough?)
	become thin
	get torpid, numb
	70

f) Suffix {-Vlan}.

It is an iterative marker.

Examples:

tihulan	ringing the bell
makulan	stopping others by standing
	before them and stretching and waving the arms
yo [?] ilan	cooling something by blowing
	air onto it many times
malulan	pouring water down
sipulan	tossing something many times
¢otilan	twisting
kutilan	twisting one's body to relieve pain
šihulan	sawing

g) Suffix {-lahan}.

This suffix varies freely with {-lehan}. It indicates multiple action.

Examples:

kotlahan crawl
ma[§]lahan grope

čiplahan sing or repeat sounds (like birds)
we [?]lahan greet by shouting

 \underline{h}) Suffix {-tes}. This is a causative marker. Compare with a) above.

Examples:

waytes put someone to sleep yantes make someone to flee

i) Suffix {-in}.

It is an intransitive marker.

Examples:

711 see Pilin get vexed Pat work; good Patin bathe Pay be ?ayin be born tek stop tekeyin stop oneself feel nak feel oneself nakayin

The function of -ey and -ay in tekeyin and nakayin is not clear.

 \underline{j} , \underline{k}) Suffixes {-en} and {-an}.

These are transitive markers.

Examples:

lubenmake one tiredmambenbuykemben?

If the root is of CVC shape <u>-b-</u> is stem formative serving to make extended allomorphs for bases from the roots. The stem-formatives are not dealt with here.

pakan correct
lokan drink water from the hollowed palms
ki¢an peel something (a fruit) by teeth

VERBAL BASE DERIVATION FROM VERB ROOTS

See section III for a statement on numbering.

The table below summarizes the distribution of the suffixes listed in this and in the following sections.

Occurring with noun and verb roots: <u>-tay</u>, <u>-talantik</u>, <u>-taylantik</u>, <u>-ah</u>, -ub, -ob.

Occurring with verb roots alone: -Vlan, -lahan, -tes, -in, -en, -an.

VERBAL BASE DERIVATION FROM NOUN ROOTS

a) Suffix {-tay}. Same as in VII a).

Examples:

 $\begin{array}{ccc} \text{po\check{s} medicine)} \\ \text{simitay} & \textit{blow the nose } (\underline{\text{sim catarrh}}) \\ \text{si} \text{\check{r}} \text{tay} & \textit{aim to beat } (\underline{\text{si}} \text{\check{r}} \text{ firewood, stick)} \end{array}$

b) Suffixes $\{-ta + -lan + -tik\}$.

Same as in VII b).

Examples:

puktalantik distribute to many people keep the pigs in order (?)

 \underline{c}) Suffixes {-tay + -lan + -tik}.

Same as in VII c).

Examples:

kintaylantik make fiesta čahtaylantik hunt many rabbits (?)

d) Suffix {-ah}.

Same as in VII d).

Examples:

biktah wear out (bik intestine)
kišnah feel hot (kiš hot)
wi nah feel hungry (wi hunger)

/t/ and /n/ preceding the suffix <u>-ah</u> are stem-formatives which are not considered in this paper.

e) Suffixes {-ub ∞ -ob}.

Same as in VII e).

Examples:

 čulub
 make oneself elegant (čul ?)

 yašub
 turn green (yaš green)

 čahub
 get bitter (čah laziness)

 kanub
 turn yellow (kan yellow)

 lo¢ob
 get curdy (lo¢ cleft (?))

VERBAL BASE INFLECTION FOR PERSON

a) Intransitive.

Person is marked for intransitives by a set of suffixes identical with those found in the pronominals.

First person is marked by the suffix -on ∞ -ot.

Second person is marked by the suffix -at. And third person is unmarked.

Some examples are given below.

nušon	I bathe
nušotik	we bathe
nušat	you bathe
nušateš	you (pl.) bathe
nuš	he (she, it) bathes
nu ^š ik	they bathe
lubon	I am tired
lubotik	we are tired
lubat	you are tired
lubateš	you (pl.) are tired
lub	he (she, it) is tired
lubik	they are tired
7.) (D)	

b) Transitive.

Person is marked for transitives by a set of prefixes identical with those found in the possessed nouns. But there are certain free variations here, which are absent for the prefixes of the possessed nouns.

	set 1	set 2
First person	h-	k-
Second person	Pa-	Paw-
Third person	S-	y-

Set 1 occurs before consonants except /?/. Set 2 occurs before /?/. Second person marker -?a always has the shape /?a/ before /h/. Before other consonants often it is either reduced to /?/ or to zero. So is -?aw often reduced to /w/. /h/ after third person marker /s/ is lost. Initial /?/ is always lost when, in combination, it becomes non-initial.

Examples:

heet I cut Paget you cut seet he (she, it) cuts h¢etik we cut Pacetik you (pl.) cut they cut s¢etik I meet htah Patah you meet stah he (she, it) meets htahtik we meet Patahik you (pl.) meet stahik they meet I appear hpas you appear pas he (she, it) appears spas hpastik we appear pasik you (pl.) appear spasik they appear ho koy I ask Paho Pkoy you ask so?kov he (she, it) asks ho koytik we ask Paho Pkoyik you (pl.) ask so koyik they ask kik I call Pawik vou call vik he (she, it) calls kiktik we call Pawikik you (pl.) call yikik they call kil I see wil you see

yil	he (she, it) sees	
kiltik	we see	
wilik	you (pl.) see	
yilik	they see	

c) Indirective.

Suffix -b- occurs before -on me and -et you first and second person object suffixes respectively. And -bey occurs before third person object suffix which is unmarked. It likewise occurs before imperative -a.

Examples:

tohbon	pay me (i.e. it to me)
tohbet	pay you
tohbey	pay him (her, it)
mambon	buy me (i.e. it for me)
mambet	buy you
mambey	buy him
kambon	ask me (i.e. it from me)
kambet	ask you
kambey	ask him
mambeya	you buy it (i.e. it for him)

VERBAL BASE INFLECTION FOR NUMBER

Number is marked by different suffixes in transitives and intransitives.

In intransitives as well as in transitives the singular is not marked.

In intransitives first and third person plural is marked by the suffix -ik. Second person plural is marked by the suffix -e^š.

In transitives second and third person plural is marked by the suffix -ik, whereas first person plural is marked by -tik.

For examples see IX Verbal Base Inflection For Person.

VERBAL BASE INFLECTION FOR ASPECT

a, b, c) Suffixes -oh, -eh and -em.

These suffixes indicate perfective aspect. The distribution of these suffixes is predictable to a certain extent. The suffixes -oh and -eh usually occur with transitives, whereas -em occurs with intransitives. The suffix -eh can be preceded by other suffixes like -ob', -tes, etc.

Examples:

Piloh	have visited
kayoh	have sung
kanoh	have asked
bikoh	have swallowed
čanoh	have scolded
Paloh	have said
mahoh	have paid
manoh	have bought
čuneh	have believed (?)
Pateh	have worked
koponeh	have spoken
Poyineh	have made friendship (?)
kupineh	have tasted
?elkaneh	have stolen
[?] akobeh	have given
kanobeh	have asked
kotesineh	have danced

Note above in <u>Palkaneh</u> the stem has CVCC shape. The root is Pel.

hulem	have	come
talem	have	come
tunem	have	served
[?] oĕem	have	enterea
lokem	have	left

bahem have gone
moyem have climbed
kotem have arrived

d) Suffix -bel.

This suffix marks the continuative aspect.

Examples:

PalbelsayingkambelaskingPilbellookingcombelsellinghuybelbeatingmambelbuying

NOTES ON NOMINAL CONSTRUCTIONS

<u>a)</u> When compounds are possessed the second member of the construction is possessed according to the person (first, second or third). The first member of the construction, however, is not so possessed, but preceded by {s-}, the third person possessive. See section V.

Examples: Possessive prefixes are underlined.

me? mother wakaš cow or bull me? wakaš cow sme? hwakaš my cow sme? ?awakaš your cow sme? šwakaš his cow name (of a person) hol bilil sol hbil my name sol Pabil your name his name sol sbil

<u>b</u>) When compounds are possessed (see above a)) the plurality of possessors is marked by the same suffix {-tik} for all three persons. But note that when the thing possessed has only one root, the first person is marked by {tik} or {tik + ik}, and the second and third persons are marked by {ik}.

Examples:

sme? hwakaš	my cow
sme? hwakaštik	our cow
sme? ?awakašik	your (pl.) cow
sme? šwakašik	their cow

NUMERALS

- a) The main characteristics of the Tzeltal numeral system are:

 1. It is a vigesimal system. 2. The manner of counting is mainly anticipatory (described below).
- b) All (but see g), i) and k) below) numerals can be analyzed in terms of the following four types of simple constructions.

```
Type 1 Absolutive
Type 2 Additive
Type 3 Anticipatory
Type 4 Multiplicatory

root + suffix
root + root + suffix
root + suffix
root + suffix
root + root +
(suffix or root)
root + root
```

Complex constructions are formed from the above listed four types. The term suffix above always refers to the numeral suffix {eb}. The root may include other suffixes but not {eb}. Such complex forms are still referred to as root for the sake of simplicity in this section.

Procedural limitations: 1. IC constructions are not formed between the elements in an expression across the suffix. 2. When two roots succeed they always form an IC construction. 3. A suffix immediately following a root (and its expansion) always forms an IC construction with it.

c) The numerals two to twelve are formed after type 1 construction, that is, a root followed by a numeral suffix. This type is described as absolutive because the meaning expressed by the root is not altered

by the addition of the suffix. But it can be said that the suffix has added a component of meaning, in the sense that the roots with the suffixes are now complex free forms.

2	čeb
3	Pošeb
4	čaneb
5	ho [?] eb
6	wakeb
7	hukeb
8	wa ^š akeb
9	baluneb
10	lahuneb
11	bulueeb
12	lahĕayeb

Note the suffix {eb} which always occurs with those bases when they signify the values shown above as the numerals.

 \underline{d}) The numerals thirteen to fifteen are formed after type 2 construction, that is, root + root + suffix. The presence of suffix in this type is important, and it contrasts with type 4 construction below. Also note that no suffix intervenes between the roots, and thus it contrasts with the type 3 construction. This type is described as additive, because the numerical values expressed are equal to the addition of the values of the two roots in the construction.

13	² ošlahuneb	(?oš + lahun + eb)
14	čanlahuneb	$(\check{e}an + lahun + e\check{b})$
15	ho [?] lahuneb	$(ho^{?} + lahun + eb)$

Note the numeral suffix (eb) occurring with numerals 13 to 15 as with 2 to 12. The form lahun is analyzable into {lah} + {un}. {un} occurs as suffix elsewhere but it is not a numeral suffix and so it is not treated here as a separate item.

 \underline{e}) The numbers from sixteen to nineteen are formed after type 3 construction, that is, root + suffix + root + (suffix or root). The position of the suffix, that is, between the roots is significant for this type. Whenever a numeral suffix intervenes between two

roots, the construction is described as anticipatory and its value is obtained as follows. The value of the first root is counted as anticipating toward the value expressed by the root following the suffix.

16	huntab	(hun + + tab)
17	čebtab	$(\check{e} + e\dot{b} + ta\dot{b})$
18	[?] ošebtab	(?oš + eb + tab)
19	čanebtab	$(\check{e}an + e\dot{b} + ta\dot{b})$

Note above in the numeral for sixteen that the numeral suffix is not marked.

In the above numerals the numeral classifier (h) precedes {tab} in careful and deliberate speech. See g) below.

f) All the multiples of twenty from forty to three hundred and eighty are formed after type 4 construction, that is, root + root. Note no numeral suffix follows either one of the roots.

bulučwinik	11×20
lahčaywinik	12×20
Pošlahunwinik	13×20
čanlahunwinik	14×20
ho lahunwinik	15×20
huntabwinik	16×20
čebtabwinik	17×20
Pošebtabwinik	18×20
čanebtabwinik	19×20

Above, the form winik means twenty or person. This form occurs only in complex expressions as given above.

g) Numerals one, twenty and four hundred are actually nouns with CVC structure and are preceded by the numeral prefix as the other nouns.

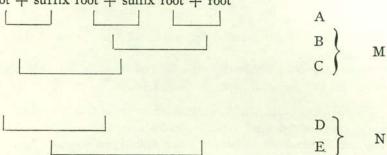
hun	one	$\{h\}$ +	{hun}
htab	twenty	{h} +	{tab}
hbak	four hundred	$\{h\} +$	{bak}

 \underline{h}) All the numerals from one to four hundred (but see g) and i) in this section) can be shown to be formed by the type of constructions discussed above, involving one or more of them. Some

examples involving more than one type of construction are given and analyzed below.

wašakeb lahuneb ča?winik	38
hun lahuneb ča winik	31

The above given numerals are analyzable into ICs as shown below. root + suffix root + suffix root + root



M and N give the alternative analysis. Witness that both of them give the same values to the numerals.

Note that on level A constructions type 1 and 4 occur.

On other levels type 3 construction occurs. Below, the meaning of the forms occurring in the above numerals are given.

wa ^š akeb	8	(eb - numeral suffix)	
hun	1	(no-numeral suffix with this form)	
lahuneb	10	(eb - numeral suffix)	

i) Numerals 21 to 30 present a problem. They are given below and analyzed.

hun hoeš	ča [?] winik	21
čeb hoeš	ča [?] winik	22
Pošeb hoeš	ča [?] winik	23
čaneb hoeš	ča [?] winik	24
ho?eš	ča?winik	25
wakeb hoeš		26
hunkeb hoeš	ča winik	27

wašakeb hoeš	ča ?winik	28
baluneb hoeš	ěa ?winik	29
lahuneš	ěa ?winik	30

- I) root + suffix hoeš root + root for 21, 22, 23, 24, 26, 27, 28, 29
- II) root + ---- e[§] root + root for 25 and 30
- II) can be rewritten as root + suffix root + root

In the expressions above for 21 to 30 what hoe[§] and e[§] signify is not very clear, hoe[§] is analyzable into ho and e[§] and thus e[§] in expressions for 25 and 30 is identifiable with the e[§] in hoe[§]. But when expressions for 25 and 30 are considered e[§] in them occurs in a position parallel to that in which the suffix {e[§]} occurs in other expressions. A semantic consideration would suggest that they have type 3 anticipatory construction. It also suggests that the other expressions also have the type 3 construction, and in them hoe[§] serves neither semantic nor constructional purpose. This is further strengthened by parallel expressions in the numerals from thirty one onwards where hoe[§] does not occur. Thus all of these expressions are considered to have type 3 anticipatory construction.

j) In this dialect the numeral 800 is not expressed by a single root as is the numeral 400. Instead it is expressed in a compound expression having type 4 multiplicatory construction.

ča ?bak 800 ča ? 2; bak 400)

<u>k</u>) Two more examples are given below involving constructions not discussed above.

hbak sok ?olil 600 čaneb sok ?olil 4 1/2

Polil means half and sok means with. In the first expression above, Polil means "the half of what has been specified preceding sok". In the second expression it is simply "half". It appears that if the numeral specifying the number is not followed by the numeral suffix the first meaning is signified, and if the numeral is followed by the numeral suffix the second meaning is signified.

NOMINAL CLASSIFIERS

In the data so far analyzed there are no instances where classifiers occur without being followed by nouns. But nouns are not always preceded by classifiers, nor by the same classifier when they are so preceded. Classifiers do not seem to occur with nouns when the nouns are possessed. It could not be checked satisfactorily whether the nouns which are preceded by classifiers could also occur without classifiers in the same situations or contexts (see d) below). Thirty five classifiers have been identified so far in the corpus. All these classifiers are listed below with examples. As in numerals and numbers (singular and plural) here also there is a cleavage. When the nouns are qualified by the number twenty or more the classifier is preceded by another morpheme {ta}. There is at least one exception to this statement, which has been described below in e).

There are not enough examples to specify the meaning of each classifier. Generally they specify a property of the noun that follows the classifier and this can be inferred from the translation meaning given for the examples below.

It was rarely possible to get the informant to give the nouns, when they are not possessed, without classifiers.

a) An example is given to show that the classifier does not occur when the nouns are possessed.

hku? my shirt (possessed)
hku?tik our shirts (possessed)
ča? lihk ku? two shirts (unpossessed)

<u>b)</u> Some examples are provided here to demonstrate that there is a cleavage when the nouns are qualified by number twenty or more. Note the occurrence of the morpheme {ta} in the following examples. This once again illustrates the vigesimal nature of the numerals.

hpal kop a word

htab ta pal kop twenty words

hbak ta pal kop four hundred words

hčeš wamal a branch (of a tree)

htab ta češ wamaltik twenty branches

hpis ton a stone

ča pis ton two stones

htab ta pis ton twenty stones

hbak ta pis ton four hundred stones

hčiš ka [?]bal a hand

htab ta čiš ka baletik twenty hands

Note in the above examples the occurrence of h- in certain examples. It is not a possessive prefix.

See f) below for an explanation.

c) List of classifiers. Classifiers are underscored.

hpis ton a stone (a lumpy....) hpam ha? a pool of water hpeht ha?as a zapote (?) hpehě wah a round tortilla hpal čenek a bunch of beans hbal hun pile of ground hbus lum a roll of paper hpis poš a measure of trago

hpih ²ahal a tooth hpal kop word

htul winik a person (human being)

htul ha? a drop of water

htel wamal a branch of tree

htel wamal a pair of pigs

htel wisim a row of maize

hčiš ka bal a hand

hkah lo?bal a leaf of banana

hkoht wakaš a bull

hkas wale? a piece of sugar-cane
hkol čahan a piece of cord, a string
hsehp bent a twenty-cent coin

hšet wale? a small piece of sugar-cane

hšoht ?ak a roll of vine

him te? a stroke with a stick han Paskal a lump of brown sugar huht čen a pot hmel we?lin a kind of food hmak te? door hyom ?ak a handful or bunch of zacate hlihk may buh (?) hlehě mum a honey-comb (?) hlam čambalam a class of four-footed animal hlah¢ višim a covering of corn, husk hloč čenek

For prefix h- above see f) below. Note that this prefix gets assimilated when the following form begins with /h/.

a handful of beans

d) Names of body parts are not preposed by the nominal classifier. But when body parts are found in pairs like eyes (sitil), hands (kabal), feet (?okol), the classifier čehp (pair) may precede them.

hun nukil a throat hun guhtul a belly hun holol a head hun čohil a cheek hun Palawil a body hun kawalhil a jaw

Note hun (one) in the above examples is not a classifier.

e) The general rule is that ta precedes the classifier when the noun is specified as twenty or more than twenty in number. Earlier it was stated that there is at least one exception to this general rule. It is the classifier bal. Firstly the classifier is preceded by another morpheme lah. Secondly the position of these two morphemes in the utterence differ in comparison with the position of other classifiers. See the examples below and compare them with the examples in b) in this section.

hbal hun a roll of paper htab hunetik lah bal twenty roll of paper

hbal pohp a roll of mat

htab pohpetik lah bal twenty rolls of mat

hbal ?ašibal a roll of grass rain-coat

htab [?]a^šibaletik lah bal twenty rolls of grass rain-coats

hbal kapa a roll of coat

htab kapahiletik lah bal twenty rolls of coats

Note in these examples that ta does not occur. Instead lah occurs. Also lah and the classifier occur after the noun. Whereas in the examples given in b) the noun occurs after the classifier. This is so here in these examples when the noun is specified as one.

For an explanation of the prefix h- occurring initially in above given examples see f) below.

<u>f)</u> A prefix h-occurs before all the nominal classifiers in c) above. This prefix also occurs in b) and e), but not preceding the classifier. There it occurs before the numeral nouns for one, twenty and four hundred. See g) in section XIII on numerals. Before other numerals it does not occur. The other place it occurs is before the nominal classifiers as noted above, but only when the noun following the nominal classifier obviously refers to no more than one. This prefix h- may simply be described as the numeral prefix.

As was stated earlier, the morpheme ta always occurs, and precedes the classifier and follows the numeral, if that numeral is twenty or more. (For examples see b) above.) Otherwise the prefix hoccurs with the classifier. For the exception see c) above.

DEMONSTRATIVES

There is a three-way split in the demonstratives. The forms are given below.

ha rlume there-yonder there-proximate

ha?liye here

These are analyzable into as follows:

 $ha^{2} + lum + e$; $ha^{2} + ley + e$; $ha^{2} + liy + e$.

{ha?} is the demostrative base {lum}, {ley}, and {liy} are the forms indicating the relative distance. The function of {e} could not be indicated here.