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International Journal of American Linguistics, Vol. 45, No. 4. (Oct., 1979), pp. 309-322.

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International Journal of American Linguistics is currently published by The University of Chicago Press.

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PAME NOUN INFLECTION

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0. Introduction
1. Prefixes
2. Stem-initial consonant
3. Tone-stress patterns
4. Suffixes

0. This article describes the inflection of nouns in Pame.¹ Nouns are inflected for number of the noun, number of the possessor, and person of the possessor. These categories are expressed by (1) prefixes, (2) stem-initial consonant modification, (3) tone-stress changes, or (4) suffixes, and often redundantly by two or more of these systems at once.² The four systems

¹ Pame is an Otomanguean language spoken by about 3,700 people in central Mexico. The variety described is Central Pame, spoken in Santa María Acapulco, on the southeast border of San Luis Potosí. The 1970 census places the population at 2,700. The mutually unintelligible North Pame accounts for the other 1,000 speakers. It is spoken in the region of La Palma, Tierras Coloradas, San Felipe Gamotes, Alaquines, and Hoya de Durazno in San Luis Potosí. South Pame as spoken by the few remaining speakers in Jiliapan, Hidalgo, was described by Leonardo Manrique Castañeda, "Structural Sketch of South Pame (Jiliapan Dialect)," in *Handbook of Middle American Indians*, vol. 5, *Linguistics*, ed. N. A. McQuown (New York, 1967), pp. 331-48. It also is quite distinct from Central Pame. Note the change from the classification of Santa María Acapulco as North Pame, as stated in Lorna Gibson, "Pame (Otomi) Phonemics and Morphophonemics," *IJAL* 22 (1956): 242-65.

² The redundancy in marking number and possession has its explanation partly in historical change. The modifications of stem-initial consonant and tone-stress constitute an older system

are described separately. Morphophonemic processes operate within each of these systems and also where they interact. The reader is referred to Gibson's 1956 article for a systematic description of Pame phonemics and morphophonemics.³

Though each system is essentially independent, there are some correlations between them, especially between that of possessive prefixes and the stem-initial consonant modifications for possession. The choice between prefixes or suffixes for number of the noun is largely determined by the animateness of the noun. All inanimate nouns choose prefixation; all animate nouns use suffixation and a subclass of them use prefixation as well. The system of tone-stress changes is the most independent of the other systems, with the qualification that the pattern which maintains the same tone throughout the paradigm is found most frequently with those nouns which mark possession by inflectional suffixes rather than prefixes and with those which maintain the same stem-initial consonant throughout (but with changes in the prefix).

This article presents the regular patterns that have been found in a study of over 700

of inflection that has become partly ambiguous due to phonological changes in the language. The prefix system is somewhat more recent and serves to resolve some of the ambiguities. The suffix system is of more recent origin and marks the categories most explicitly. Pame is like other Otomanguean languages in displaying morphological layering which reflects a tendency for affixes to coalesce with the root in a single syllable.

³ *IJAL* 22 (1956): 242-65.

nouns. There are also about twenty nouns that have some special irregularities in their inflection, which are not treated in this study. Most of these are kinship terms.

1. The prefix is an integral part of the Pame noun word; very few nouns have no prefix. The prefix may be nominalizing or simply nominal. In most cases, the prefix also has a classifying function. Examples of some of the prefixes:

kasâs musician (-sâs *play an instrument*),

AGENT

kapê thief (-pê *steal*) AGENT

naphê thievery (-pê *steal*, laphê 3d pl. future) ACT

kíčhas playing of instruments (-sâs *play an instrument*, láchas 3d pl. future) ACT

piŋgywâŋ bone, skeleton HARD

pikywá? flint HARD

stíl'háigŋ feather(s) FINE, LITTLE

stišêhi? bullet(s) FINE, LITTLE

Many of the noun prefixes also participate in a system of prefix modification to distinguish number of the noun or person of the possessor of a possessed noun (described below). Some prefixes are unchanging for plurals or for possessives, and in these cases those categories are marked by suffixes (see 4).

Inanimate nouns are marked for plural by a modification of the consonant of the noun prefix. Many animate nouns are also marked for plural by prefix modification as well as by suffixation, the characteristic device for pluralizing animate nouns (see 4).

The most regular prefix sets for absolute number are given in table 1. The basic prefix is used for singular or dual, and the modified prefix is used for three or more. The plural prefix has a weakened consonant: n is replaced by l or r; m is replaced by w; c and č are replaced by s and š; and both ŋgo and ko are replaced by M.

The nasal prefix M assimilates to the

TABLE 1

Singular and Dual	Plural
(1)....ŋgo	M
(2)....ko	M
(3)....ni	li (rare)
(4)....ni	ri
(5)....na	la
(6)....na	ra
(7)....ma	wa
(8)....mi (rare)	wi
(9)....co	so
(10)....ca	sa
(11)....či	ši

point of articulation of the following consonant:

ŋgobé?et flag, *mbé?et* (pl.)

ŋgodêoc? bridge, *ndêoc?*

ŋgokhwè? bean, *ŋkhwè?*

ŋgosáon night, *nsáon*

ŋgolhwá ear of corn, *nlhwá*

Some speakers omit the n before the lateral: (n)lhwá *corn*, (n)lhòs *salt* (pl.).

Stops not in a cluster with h are voiced after M:

kopó? land, *mbó? (pl.)*

ŋgophói excrement, *mphói*

ŋgop'óho seat, *mb'óho*

ŋgokwâŋ tree, piece of wood, *ŋgwâŋ*

Before other consonants the M is deleted, and except for stem-initial ? and h and clusters mh and nh, the stem-initial C is geminated in many words by some speakers.⁴

ŋgohwê? thorn, *hwê? (pl.)*

ŋgo?wêi mosquito, *?wêiky* (animate pl.)

ŋgomhê tortilla, *mhê*

ŋgomêhi? squash, (m)móhi?

ŋgowâhal? horse, (w)wâhalt? (animate pl.)

ŋgonwê thunder, *nnwêt* (animate pl.)

ŋgonwê? gopher, *nnwê?t* (animate pl.)

konêp well, *nêp*

⁴ Note that in the verbs, the stem-initial C of forms without a prefix is almost always geminate: *wwài he cries* (lawài *I cry*); *ddóa he walks* (ladóa *I walk*); but not in *wôt he barks*.

M is also an allomorph of the plural of the possessive prefix *ŋgo* and works the same way.

ŋgomáŋ *his saying*, *mmáŋ* (pl.)

ŋgomàs *his finger-ring*, *mmàs* (pl.) (cf. *màs more*)

ŋgowàs *your finger-ring*, *wwàs* (pl.)

ŋgomò *its corner, his hip*, *mò* *corners*, *mòt* *their hips*

ŋgonhí^o *his name*, *nhí^o* (pl.)

Examples of sets (3) to (11) in table 1 are:

(3) *nikywáŋ* *capulincillo tree*, *likywáŋ*

(4) *níŋgye* *year*, *ríŋgye*

(5) *nacê* *plum*, *lacê*

(6) *nachèŋ* *key*, *rachèŋ*

(7) *macì* *pitcher*, *wacì*

(8) *mičâ[?]* *corn bin*, *wičâ[?]*

(9) *cóndo* *egg shell*, *sóndo*

(10) *campháŋ* *pocket*, *sampháŋ*

(11) *čihàŋŋ* *spoon*, *šihàŋŋ*

Examples of prefix sets on animate nouns in combination with number suffixes are:

(1) *ŋgowàhal[?]* *horse*, *ŋgowàhail^{v?}* (du.), *wwàhalt[?]* (pl.)

(4) *niyáho* *fox*, *niyáhoi* (du.), *riyáhot* (pl.)

(5) *nadò* *dog*, *nadòi* (du.), *ladòt* (pl.)

(7) *masát* *deer* (sg., du.),⁵ *wasát* (pl.)

(9) *cómhe* *butterfly, moth*, *cómhei* (du.), *sómhet* (pl.)

(10) *campháŋ* *bedbug*,⁶ *campháŋŋ* (du.), *sampháŋt* (pl.)

(11) *číŋgí[?]* *parrot* (sg., du.), *šíŋgê[?]ky* (pl.)

In addition to the more regular absolute number prefixes, there are some sets which distinguish plural by prefix suppletion: *ki/ri*, *ka/im*, *ko/im*, *ŋgo/ri*, *Ø/ri*, *na/i*. *kíppi[?]i* *raw rum*, *ríppi[?]i* (pl.) (this pl. is going out of use)

⁵ Compare the Aztec word *masatl* *deer*. Pame has reinterpreted the first syllable as classifier *ma-*.

⁶ Some nouns have both animate and inanimate meanings and, accordingly, two different plural forms. Here, apparently a bedbug is an animate "pocket," and requires the plural suffix *-t*.

kimyâol[?] *round valley*, *rimyâo^t* (inanimate pl. *-t*)

kamáhaigŋ *leader*, *immyàhaigŋky* (animate pl. *-t*)

koméigŋ *North Pame person*, *immígŋky* (ditto)

ŋgonhèi[?] *Huasteco Indian*, *riŋhyè[?]ky* (ditto)

ŋgomhó[?]o *adolescent female*, *rímhyo[?]ot* (ditto), *mhó[?]o* *adolescent female human*, *rímhyo[?]ot* (ditto)

nan[?]éŋ *Spaniard, mestizo*, *íny[?]eŋky* (ditto)

The following noun has a second order prefix in the singular, which is a reduction of *ko-* *place*: *knamáogŋ* *water hole in rock*, *ramáogŋ* (pl.).

Noun prefixes modify the prefix vowel to distinguish person of the possessor. They are divided into three groups according to the vowel alternations for the singular noun, as shown in table 2. Examples are given in table 3.

TABLE 2
POSSESSIVE PREFIX SETS

	First Person	Second Person	Third Person
1. a/o/o	na ka	ŋgo ko	ŋgo ko
2. o/i/i	no ko sko co	ni ki ski či	ni ki ski či
3. a/i/a	sta ta	ski ki	sna na

Some nouns have a pattern *ko/ko/ki* (rather than *ko/ki/ki*). These nouns have a generalizer morpheme in the third-person plural possessor or the absolute form of the noun, whereas the *ko/ki/ki* nouns do not have a generalizer in this form but simply add a plural suffix to the third-person singular (see table 4).

There are four nouns of the *co/či/či* pattern that need to be distinguished from the regular ones of this pattern, which follow the EFE pattern of stem-initial

TABLE 3

	First	Second	Third
<i>eye</i>	nattào	ngotào	ngotào
<i>face</i>	kattào	kotào	kotào
<i>roasting ear</i>	nossà	nišà	niššà
<i>lower abdomen</i>	konhôi	kiṅhyòì	kiṅhyòì
<i>nape of neck</i>	skombáʔa	skipyáʔa	skimbyáʔa
<i>nose</i>	connòa	čiṅyòa	čiṅyòa
<i>broom</i>	staʔéogŋ	skiʔéogŋ	snaʔéogŋ
<i>knife</i>	tahéš	kihéš	nahéš

TABLE 4

	First	Second	Third Sg.	Third Pl.	Absolute
<i>dwelling</i>	kómmeho	komého	kímmiho	kímʔehept	—
<i>handwriting</i>	kódde/kóddwe	kodè/kmadê	kíggye	kílʔep(t)	kílʔε <i>letters of alphabet</i>
<i>food</i>	kóssohegŋ	kmaséhegŋ	kíššehegŋ	kíčʔehemtp	kíčʔehegŋ
<i>command</i>	tmawái	kmawái	kimmyái	kibbyépt	kibbyái

TABLE 5

	First	Second	Third Sg.	Third Pl.	
<i>ear</i>	cokkwào	čikyào	čikyào	šĩkyhàp(t)	ABC
<i>teat</i>	cocwiʔ	čičiʔ	čičiʔ	šičʔèʔpt	
<i>thigh</i>	cokkwà	čikyòa	čikyòa	šĩkyhòap(t)	
<i>neck</i>	cohhwiʔ	čĩhiʔ	čĩhiʔ	šĩhyèʔky	
<i>nose</i>	connòa	čĩyòa	čĩyòa	šĩhywàp(t)	EFE
<i>lips</i>	collè	čilʔè	čĩnyè	šĩnyèt	

consonant alternation (see 2). These (four) nouns follow the **ABC** pattern and also have in common that the root has a *w* always and only when the prefix contains an *o* (see table 5). One noun, *skirt*, has the irregular prefix set *no/na/na*: *nokkòìʔ* (1st), *nákkoiʔ* (2d), *nakòìʔ* (3d sg.), *nakhòʔpt* (3d pl., sg. of noun), *rakhòʔpt* (pl.).

Some of the possessive prefixes modify the prefix consonant to mark plural of the noun (see table 6).

There is not a one-to-one correlation between an absolute prefix set and a possessive prefix set, except that of the *šĩ* absolute prefix with the *sta/ski/sna* set of possessive prefixes (forty-two nouns). The *ngo/M* absolute prefix set corresponds to

the *na/ngo/ngo* possessive set (twenty-nine nouns) and also to the *no/ni/ni* possessive set (thirty-eight nouns). The *na/ra* absolute set corresponds to the *ta/ki/na* possessive set (eleven nouns). The *na/la* absolute set corresponds to the *no/ni/ni* possessive set (seven nouns). The other thirteen correspondences are scattered over twenty-one nouns, with one or two nouns representing each correspondence.

2. There are three patterns of stem-initial consonant variation for distinguishing the person of the possessor: (1) the **ABC** pattern in which the first and third persons are always distinct and the second person is either distinct or the same as the

TABLE 6

	First	Second	Third Sg.	
na/ŋgo/ŋgo → i/M/M	nattào	ŋgotào	ŋgotào	<i>eye</i>
	ittào	ndào	ndào	<i>eyes</i> ¹
	nacci ²	ŋgocí ²	ŋgocí ²	<i>tooth</i>
	ičči ²	ncí ²	ncí ²	<i>teeth</i>
ka/ko/ko → i/M/M	ka ² éŋ	kon ² éŋ	kon ² éŋ	<i>pudding</i>
	² yéŋ ²	n ² éŋ	n ² éŋ	<i>batches of pudding</i>
no/ni/ni → ro/ri/ri	nossà	nišà	niššà	<i>roasting ear</i>
	rossà	rišà	riššà	<i>roasting ears (pl.)</i>
ko/ki/ki → ro/ri/ri	koncá	kičá	kinčá	<i>pond</i>
	roncá	ričá	rinčá	<i>ponds</i>
ko/ko/ki → ro/ri/ri	kódda ² a	kodá ² a	kíggya ² a	<i>place to lie down, lair</i>
	ródda ² a	rodá ² a	ríggya ² a	<i>places to lie down, lairs (pl.)</i>
ko/kma/ki → ro/—/ri	kóssohegŋ	kmaséhegŋ	kíššhegŋ	<i>food</i>
	róssohegŋ	—	ríššhegŋ	<i>foods</i>
ta/ki/na → ta/ki/ra	tahéš	kihéš	nahéš	<i>knife</i>
	tahéš	kihéš	rahéš	<i>knives</i>
co/či/či → so/ši/ši	cokkwàò	čikyàò	čikyàò	<i>ear</i>
	sokkwàò	šikyàò	šikyàò	<i>ears</i>
(—/—/na) → ro/ra/ra	—	—	nanğàò	<i>side, cheek</i>
	rokkwàò	ranğàò	ranğàò	<i>inner ears (only pl.)</i>
no/na/na → ro/ra/ra	nokkòì ²	nákkoi ²	nakòì ²	<i>skirt</i>
	rokkòì ²	rákkoi ²	rakòì ²	<i>skirts</i>

¹ The *i*- may be weakened as *a*- or lost completely in the speech of most people today; attào is an alternate form of (i)ttào *my eyes*. The noun form *nassi my firewood* has been noted in the plural as (i)šši or even aišši.

² This form is not in use today; instead a phrase is used meaning "much *my-pudding*."

third, (2) the **EFE** pattern in which the first and third persons are the same and second person is distinct, and (3) the **XXX** pattern in which there is no change of stem-initial consonant.

The **ABC** pattern was postulated originally in the reconstruction of Proto-Otopamean to handle the morphophonemic variation of stem-initial consonants in the whole language family.⁷ There were four forms recognized for Pame verb paradigms: **A** third-person singular progressive, **B** third singular past, **C** third singular indefinite future, and **G** third plural in any tense-aspect. Parallel alternations in Pame noun paradigms correspond with **A** first person, **B** second person,

C third-person singular, and **G** third-person plural and/or the absolute (nonpossessed) form of the noun (see table 7).

The **A** form is a fortis consonant, usually geminate in Pame. The **B** and **C** forms are lenis. The stops *pp* and *tt* have both a strong and a weak alternation pattern. The strong pattern is a vestige of an older system and is exemplified by only a few words, all with oral root vowels. Although *pp* occurs in the **A** form of verb paradigms, the cluster *mb* appears instead in noun paradigms. In the weak patterns, the one example of stem-initial *m* has a single *m* in the **A** form instead of the expected *mm*. In the strong pattern, the **B** form is a continuant and the **C** form is a nasal. The ² and *h* add a nasal in the **B** and **C** forms. (The **B** form in verbs does not add a nasal, however.) The combination of *n*² before

⁷ Doris A. Bartholomew, "Proto-Otopamean (Mexico)" (Ph.D. diss., University of Chicago, 1965).

TABLE 7
 ABCG PATTERN OF CONSONANT ALTERNATIONS

	A	B	C	G
Strong(1)	mb	w	m	b
(2)	tt	l	n	(*d)
Weak(3)	pp	p	p	ph/p [?]
(4)	tt	t	t	lh/l [?]
(5)	kk	k	k	kh/k [?]
(6)	cc	c	c	c [?]
(7)	ss	s	s	ch
(8)	(m)m	m	m	mh
(9)	nn	n	n	nh
(10)	hh	nh	nhi	(lh)
(11)	h	nh	nhi	lh
(12)	ʔ	n [?]	n [?] i	l [?]
(13)	ʔ	d	di	l [?]

an oral root vowel produces d in Pame. The C form of a laryngeal consonant has an added palatal element, usually showing itself as an i or e (except before a front vowel, where it disappears).

The G form of the ABCG pattern is used for the third-person plural possessor and also for the absolute form of the noun. The G form of the weak (most common) ABC patterns adds an h to the B form of all nonlaryngeal consonants except c (which has an added ʔ) and adds an l to the laryngeals ʔ and h. Note that the expected *sh is ch and the expected *th and *t[?] are

lh and l[?] (probably by analogy with the laryngeal clusters). Also note that if the root contains a vowel sequence interrupted by h, the h of the clusters ph, lh, and kh becomes ʔ.

The G form of the strong ABC patterns is b for the mb A form. The one example of the tt A form, *mouth*, is a body part and does not have an absolute form. The third-person plural possessed form does not modify the initial consonant, but simply adds the plural suffix. The expected G form would be d. The b and d would be the regular phonetic result of a ʔ added to the

TABLE 8

	First	Second	Third Sg.	Third Pl.
(1) <i>finger-ring</i>	nambàs	ngowàs	ngomàs	ngobàspt, mbàspt(t)
(2) <i>mouth</i>	kattè	kolè	konè	nèt
(3) <i>mat</i>	náppèhi [?]	ngopéhi [?]	ngopéhi [?]	ngop [?] éhe [?] pt
(4) <i>arrow</i>	nattà [?]	ngotà [?]	ngotà [?]	ngolhà [?] pt
(5) <i>solid wall</i>	nakká	ngokwà	ngokwá	ngokhwápt
(6) <i>clay pot</i>	naccé [?]	ngocôe [?]	ngocôe [?] /-wé [?]	ngoc [?] wé [?] p(t)
(7) <i>firewood</i>	nassi	ngosôi	ngosôi/-wì	ngochwèp(t)
(8) <i>saying</i>	namáŋ	ngomáŋ	ngomáŋ	ngomhámp(t), mhámpt
(9) <i>cornfield</i>	kannôa	konôa	konôa	konhwápt
(10) <i>throat</i>	kahhèi [?]	konhwi [?]	konhwi [?]	konhwè [?] ky
(11) <i>name</i>	nahô [?]	ngonhó [?]	ngonhjó [?]	ngolhó [?] pt
(12) <i>seeds</i> (pl.)	ʔyôŋ	n [?] ʔoŋ	n [?] ʔoŋ	n [?] ʔómp(t)
(13) <i>house</i>	na [?] òs	ngodôs	ngodios/ngodèos	ngol [?] òspt

m and n of the C form of the strong patterns (see table 8).

The EFE pattern was also recognized in the reconstruction of Otopamean. The F form is basic to the pattern and is phonologically complex (or modified) in comparison to the A form of the ABCG pattern; it usually resembles a G form or a B form. The E form further modifies the F form. It adds a nasal to the nasals m and n and to the voiceless stops and affricate p, t, k, c. It strengthens the clusters l^ʔ and lh to t^ʔ and th, respectively. It geminates the continuatives s, l, and w and the voiced stops b and d. The laryngeals ʔ and h and clusters containing ʔ or h (except l^ʔ, lh) are not changed in the E form.

The consonant of the F form is used for second-person possessor and also for the absolute form of the noun. The third-person plural is the same as the E form,

with plural marked by a suffix (see tables 9 and 10).

TABLE 9
EFE PATTERN OF CONSONANT ALTERNATIONS

F	E	F	E
(1) m	mm	(13) d	dd
(2) n	nn	(14) m ^ʔ	m ^ʔ
(3) p	mb	(15) n ^ʔ	n ^ʔ
(4) t	nd (t — tt) ¹	(16) mh	mh
(5) k	ŋg	(17) nh	nh
(6) c	nc	(18) c ^ʔ	c ^ʔ
(7) l ^ʔ	t ^ʔ	(19) ch	ch
(8) lh	tth/th	(20) k ^ʔ	k ^ʔ
(9) s	ss	(21) kh	kkh/kh ²
(10) l	ll	(22) ʔ	ʔ
(11) w	ww	(23) h	h
(12) b	bb		

¹ Also one case of t — tt in *dough*: nottòhil^ʔ 1st, nikyóhil^ʔ 2d, nikkyóhilp 3d sg. and pl. (absol. nikkyóhil^ʔ).
² This set of C alternations is not followed uniformly by all speakers. For *beans*, a few use kh in the E forms. For *chest* (anat.), the majority use nokkhwá^ʔa 1st, nikyhwá^ʔa 2d, nikkyhwá^ʔa 3d sg., rikkyhwá^ʔat 3d pl., whereas some follow a pattern resembling ABC, with kkh in 1st and kh in 2d and 3d.

TABLE 10

First	Second	Third Sg.	Third Pl.
(1) <i>squash</i> nóm ^ʔ qhi ^ʔ	nimyóhi ^ʔ	nímmyóhi ^ʔ	nímmyóhe ^ʔ ky
(2) <i>citrus fruit</i> nonnà ^ʔ s	ninyà ^ʔ s	ni ^ʔ nà ^ʔ s	ni ^ʔ nnyà ^ʔ t
(3) <i>tomato</i> nómbai	nipyài	nímbyai	nímbyaiky
(4) <i>water</i> kón ^ʔ de	kikyè	kí ^ʔ gye	kí ^ʔ gyet
(5) <i>piece of flesh</i> non ^ʔ gwè ^ʔ	nikyè ^ʔ	ni ^ʔ gyè ^ʔ	ni ^ʔ gyè ^ʔ t
(6) <i>sore</i> noncwés	ničés	ni ^ʔ čés	ri ^ʔ nčést
(7) <i>blanket</i> not ^ʔ wè ^ʔ	ni ^ʔ hè ^ʔ	ni ^ʔ ky ^ʔ è ^ʔ	ni ^ʔ ky ^ʔ è ^ʔ t
(8) <i>tamale</i> not ^ʔ hè ^ʔ ε	ni ^ʔ hè ^ʔ ε	ni ^ʔ ky ^ʔ hè ^ʔ ε	ni ^ʔ ky ^ʔ hè ^ʔ εt
(9) <i>roasting ear</i> nossà	nišà	nišà	nišàt
(10) <i>lips</i> collè	čil ^ʔ è	čil ^ʔ nyè ¹	čil ^ʔ nyèt
(11) <i>bark(ing)</i> nó ^ʔ wwot	niwyòt	ní ^ʔ wwot	rí ^ʔ wwot
(12) <i>bed</i> nobbé	nibyé	nibbyé	nibbyét
(13) <i>century plant</i> nó ^ʔ ddoa	nigyòa	ní ^ʔ gyvoa	ní ^ʔ gyvoat
(14) <i>months</i> rom ^ʔ à ^ʔ o	rim ^ʔ yà ^ʔ o	ri ^ʔ m ^ʔ yà ^ʔ o	ri ^ʔ m ^ʔ yà ^ʔ o ^ʔ t
(15) <i>path</i> non ^ʔ ò ^ʔ ehe ^ʔ	ni ^ʔ ò ^ʔ èhe ^ʔ	ni ^ʔ ò ^ʔ èhe ^ʔ	ni ^ʔ ò ^ʔ èhe ^ʔ t
(16) <i>tortilla</i> nomhè	nimhyé	nimhyé	nimhyét
(17) <i>abdomen</i> konhòì	ki ^ʔ nyhòì	ki ^ʔ nyhòì	ki ^ʔ nyhòìky
(18) <i>huapillo plant</i> noc ^ʔ à ^ʔ	nič ^ʔ à ^ʔ	nič ^ʔ à ^ʔ	nič ^ʔ à ^ʔ t
(19) <i>maggot</i> nochí ^ʔ	ničí ^ʔ	ničí ^ʔ	ri ^ʔ ché ^ʔ ky
(20) <i>paper</i> nok ^ʔ wés	niky ^ʔ és	ni ^ʔ ky ^ʔ és	ni ^ʔ ky ^ʔ ést
(21) <i>beans</i> rok ^ʔ khwè ^ʔ	rikyhè ^ʔ	ri ^ʔ kyhè ^ʔ	ri ^ʔ kyhè ^ʔ t
(22) <i>chile</i> no ^ʔ wèì	ni ^ʔ í	ni ^ʔ í	ni ^ʔ íky
(23) <i>calf of leg</i> no ^ʔ hó ^ʔ	nihyó ^ʔ	nihyó ^ʔ	rihyó ^ʔ t

¹ Note the nn instead of the expected ll in 3d. sg.

The **XXX** pattern has no change of stem-initial consonant in the first and second persons and in the third-person singular. The absolute form of the noun has the generalizer morpheme. There are two patterns for forming the third-person plural possessor. Some speakers use the **G** form initial consonant and add -pt; other speakers use the **X** form and add -t: *their medicine* šil^ʔêpt or snadêt (šil^ʔê *medicine*); *their table* šič^ʔéhebmt or snaséhegnky (šič^ʔéhegn *table*).

The nouns of the **XXX** pattern are derived from verbs by the instrumental nominalizer ši- (sta/ski/sna) or na- (ta/ki/na). The **X** form of the possessed noun appears to be based on the **B** form of the verb (third-person singular past tense).⁸ The absolute form of the noun contains the generalizer appropriate for the verb from which it is derived.

The examples of the **XXX** pattern in the data support the pattern described earlier and add some further information. Some of the verbs from which the **XXX** nouns derive do not have consonant alternation but maintain a complex cluster throughout the paradigm. These words in the absolute form of the noun have the generalizer morpheme added to a fortis (double) consonant. In these cases, the t is not weakened to l, so that t^ʔ and tth appear in the data. The strong form of the **ABC** pattern for initial tt shows ll in the **X** form and tt or t^ʔ (before VhV) in the **G** form (see tables 11 and 12).

3. The tone-stress alternation patterns are found principally with those nouns which mark possession by prefixation (class 1), whereas the tones are held constant in those nouns which mark possession by suffixation (class 2, see 4), with very few exceptions.

⁸ The **B** form for the laryngeals in verbs does not, however, have the accompanying nasal found in the **B** form of the noun **ABC** pattern.

TABLE 11
GENERALIZED FORMS OF **XXX** NOUNS

	X	G
Strong(1)	w	b
(2)	ll	tt
(3)	ll	t ^ʔ (VhV)
Weakno ex.	p	ph/p ^ʔ
(4)	t	lh/l ^ʔ
(5)	k	kh/k ^ʔ
no ex.	c	c ^ʔ
(6)	s	ch/c ^ʔ
(7)	m	mh
(8)	n	nh
(9)	h	lh
(10)	ʔ	l ^ʔ
(11)	d	l ^ʔ
(12)	pp	pph
(13)	tt	t ^ʔ (VhV)
(14)	kk	kkh
(15)	t ^ʔ	t ^ʔ
(16)	k ^ʔ	k ^ʔ
(17)	cc	c ^ʔ
(18)	c ^ʔ	c ^ʔ
(19)	hh	tth
(20)	nd	nd ^ʔ
(21)	ŋg	ŋkh
(22)	nc	nc ^ʔ
(23)	mh	mh
(24)	nh	nh

There is a predominant pattern in which first and third persons are alike in tone and in stress placement, and second person has a contrastive tone-stress. The vast majority of the nouns occurring with na/ŋgo and no/ni types of prefix sets share this feature.

Using L to represent low tone-stress, /, H to represent high, /', F to represent falling, /^/, and pH to represent prefix with high tone-stress—which makes it predictable that the stem will have low pitch with secondary stress—the most frequent pattern is L F L (i.e., L in first person, F in second, L in third). After this, in order of frequency in our data, come pH L pH, H F H, H L H, pH H pH, L H L, F L F, L pH L, and H pH H. A list of examples is given in table 13.

Many nouns have the same tones in all

TABLE 12

	First Person	Absolute	Third Plural G
(1) <i>dough dish</i>	stawáhac [?]	šibyáhac [?]	šibyáhaspt
(2) <i>lamp</i>	stallèič [?]	šikkič [?]	šikkišpt
(3) <i>substitute</i>	stalléheḡ	šiky [?] éheḡ	šiky [?] éhebmt
(4) <i>soap</i>	statáhan [?]	šil [?] áhan [?]	šil [?] áhamp
(5) <i>raft</i>	stakàoc [?]	šikyhàoc [?]	šikyhàosp(t)
(6) <i>pattern, measure</i>	stasáo [?]	šičháoc [?]	šičhá [?] pt
(7) <i>bladder</i>	stamè [?] t	—	šimhyè [?] pt
(8) <i>plow</i>	tanòà	nanhòà	nanhòapt/wàpt
(9) <i>drinking vessel</i>	taháo [?]	—	nalhá [?] p(t)
(10) <i>needle</i>	ta [?] è	nal [?] è	nal [?] èpt
(11) <i>medicine</i>	stadè	šil [?] è	šil [?] èp(t)
(12) <i>ribbon(s)</i>	stáppe	šipphe	šipphept
(13) <i>marriage</i>	stattèhe [?] t	šiky [?] èhe [?] t	šiky [?] èhe [?] pt
(14) <i>defense</i>	stakké [?] et	šikkyhé [?] et	šikkyhé [?] ept
(15) <i>gift received</i>	tat [?] èogḡ	—	nat [?] èdnt
(16) <i>plane (carpentry)</i>	stak [?] óahadn [?]	šiky [?] óahadn [?]	šiky [?] óahabmt
(17) <i>stopper</i>	snaccè [?]	šič [?] è [?]	—
(18) <i>rattle</i>	stác [?] ac [?]	šič [?] ac [?]	šič [?] aspt
(19) <i>balance scales</i>	stahhéogḡ	šikkyhéogḡ	šikkyhébmpt
(20) <i>money</i>	tandéhedn [?]	—	nand [?] éhebmt
(21) <i>greeting</i>	stangào [?]	šinḡkyhào [?]	šinḡkyhà [?] pt
(22) <i>fasting</i>	stancèheḡ	šinč [?] èheḡ	šinč [?] éhebmt
(23) <i>toy (dolls)</i>	stámheḡ (nt)	šimhyḡ (nt)	šimhyḡp (mpt)
(24) <i>pet name</i>	stánhe [?] en	šinḡhyḡ [?] en	šinḡhyḡ [?] empt

TABLE 13

L F L	nassì, ngosòì, ngosòì <i>piece of firewood</i> kabhèi [?] , konhwì [?] , konhwì [?] <i>throat</i> nondil [?] , nikil [?] , niḡgil [?] <i>candle</i> cokkwà, čikyòà, čikyòà <i>thigh</i> takèigḡ, kikíḡ, nakèigḡ <i>grinding stone/mill (metate)</i>
pH L pH	róc [?] o, rič [?] ò, rič [?] o <i>guilt</i> nóm̄magḡ, nimyàḡ, nímm̄yagḡ <i>jigger (Span. nigua)</i>
H F H	nattóc [?] , ngotóc [?] , ngotóc [?] <i>sandal</i>
H L H	ka [?] èḡ, kon [?] èḡ, kon [?] èḡ <i>pudding-drink</i>
H L H	nattáogḡ, ngotáogḡ, ngotáogḡ <i>thing purchased</i> mèogḡ, mèogḡ, mèogḡ <i>stew, boiled food</i>
pH H pH	nóm̄ma [?] o, nimyá [?] o, nímm̄ya [?] o <i>laziness</i> kóm̄mehò, komého, kím̄miho <i>dwelling-place</i>
L H L	noc [?] àogḡ, nič [?] áogḡ, nič [?] àogḡ <i>avocado</i>
F L F	nambào, ngowào, ngomào <i>waistline</i> konhòì, kiḡhyòì, kiḡhyòì <i>abdomen</i> tanâ, kiḡyà, nanâ <i>tongue</i> statòl [?] , skikyòl [?] , snatòl [?] <i>swallower (throat)</i>
L pH L	nokkòì [?] , nákkoi [?] , nakòì [?] <i>skirt</i> tat [?] èogḡ, kik [?] eogḡ, nat [?] èogḡ <i>gift</i>
H pH H	rabbéo [?] , à/ébbéo [?] , wobbéo [?] <i>uncle, nephew</i> a/akkwá [?] , á/ékkwá [?] , wakkwá [?] /wokkwá [?] <i>man's brother-in-law</i>

TABLE 14

H H H	nambáho, ngowáho, ngomáho <i>festival</i> nobbé ² i, nibé ² i, nibbé ² i <i>musical instrument</i> (not wind) skombá ² a, skipyá ² a, skimbyá ² a <i>nape of neck</i> stahá ² aiky, skihyá ² aiky, snahá ² aiky <i>saw</i> (tool) ta ² áigŋ, ki ² yáigŋ, na ² áigŋ <i>brush</i>
L L L	stakàc ² , skikyàc ² , snakàc ² <i>shallow wooden washtub</i> ta ² wà, ki ² wà /ki ² yòà, na ² wà <i>heart</i> tahèiky, kihyèiky, nahèiky <i>gun</i>
F F F	sta ² âi, ski ² yâi, sna ² âi <i>farewell</i>
pH pH pH	stác ² ac ² , skíç ² ac ² , snác ² ac ² <i>rattle</i> stáhhwat, skíhhwat, snáhhwat <i>forgiveness</i> stáppe, skíppye, snáppe <i>ribbon for braiding hair</i>

persons. This is characteristic of the *sta-/ski-/sna-* type of prefix set. The patterns include H H H, L L L, F F F, and pH pH pH, which can all be symbolized by T T T, or unchanging tone-stress (see table 14).

There also exists a pattern in which nouns have the same tone in second and third persons: pH H H. At least three nouns follow this pattern in the plural of the noun, but have H H H in the singular of the noun. pH H H in both sg. and pl.: náttaho, ŋgotáho, ŋgotáho *work*; náttahan², ŋgotáhan², ŋgotáhan² *washing*. pH H H in pl. but H H H in sg.: nambéhe, ngowéhe, ŋgoméhe *load*; íwwehe, wwéhe, mméhe *loads*; nambéhe², ngowéhe², ŋgoméhe² *hat*; íwwehe², wwéhe², mméhe² *hats*; nambá²ai, ngowá²ai, ngomá²ai *domesticated animal*; íwweya²aiky, wwá²aiky, mmá²aiky *domesticated animals*.

A few irregular nouns have irregular tone-stress patterns, as shown in table 15. Note the use of second-person suffix in *clearing* and *tail*.

Among class-2 nouns, the predominant

tone pattern is T T T: pingywáŋk, piŋgywáŋk², piŋgywámp *skeleton*; maciky, maciky², macèp *jug*; šòtk, šòtk², šòp *cloth*; skáchadnk, skáchadnk², skáchabmp *embarrassment*.

One class-2 noun has been found with a rare rising tone: tàátk, tàátk² (3d sg. defective), a term for *father*. (tàát is a title of respect for one's father, godfather, father-in-law, son-in-law.) There are, however, at least three nouns of this class that have the pattern L F L: skambòk, skambòk², skambòp *finger nail*; sanhwàk, sanhwàk², sanhwàp *armpit* (also son-); nanjkhò²k, nanjkhòiky², nanjkhò²p *pants*.

4. Absolute number is marked by suffixes in animate nouns and in special circumstances by a plural suffix in inanimate nouns.

The suffixes -i dual and -t plural are used to mark absolute number in animate nouns. The -i is positioned after the last vowel of the stem. Stem-final alveolar consonants are palatalized; stem-final velar (g)ŋ is

TABLE 15

H pH pH	rawé ² , wíyeo ² , wómmeo ² /wámmeo ² <i>father</i>
pH F F	kássa ² , kosâk ² , kosâ ² <i>a clearing in woods</i>
H H pH	² yá ² ai, n ² ja ² a, wán ² ja ² a /wánnja ² a <i>wife</i>
H pH L	rawí, ác ² o/éc ² o, wac ² ò <i>mother</i>
pH L H	nátton, ŋgotòŋ, ŋgotòŋ <i>horn</i>
pH L F	nácce ² , ŋgocèok ² , ŋgocèe ² <i>tail</i>

TABLE 16

		Dual	Plural
(1) kamá	<i>murderer</i>	kamái	kamát
(2) kammái	<i>judge</i>	kammái	kammáiky
(3) kanhèʔ	<i>baby, child</i>	kanhèiʔ	kanhèʔt
(4) pákkas	<i>head of cattle</i>	pákkaiš	pákkast
(5) pastól	<i>shepherd (Span. pastor)</i>	pastóilʷ	pastólt
(6) kawédnʔ	<i>priest</i>	kawéiŋʔ	kawédnʔ
(7) talóŋ	<i>chicken</i>	talói¹	talódn̄t
(8) kapé	<i>thief</i>	kapéi	kapét
(9) kochíʔ	<i>snake, worm</i>	kochíʔ	kochéʔky
(10) coŋkhwès	<i>daddy longlegs</i>	coŋkhwès	soŋkhwèst
(11) kamès	<i>spider (certain nonpoisonous variety)</i>	kamèš	kamèst
(12) čikílʔ	<i>goat</i>	čikílʷʔ	šikíltʔ
(13) kopècʔ	<i>badger</i>	kopèiçʔ	kopèstʔ
(14) nikywáŋ	<i>male of animal or tree</i>	nikywái	rikywánt

¹ Some speakers use the sg. form of the noun for dual rather than omit its distinctive ending.

deleted after the dual *i-*. The *-i* is nasalized after nasalized vowels. The cluster *ii* reduces to *i*. The *-i* dual is deleted after nonlow vowels before *š*.

The suffix *-t* is palatalized after stem-final *i*. Stem-final velar *(g)ŋ* assimilates to the *-t*. A final cluster with *ʔ* metathesizes the *ʔ* to appear after the *t*. Then a *c* is simplified to *s* before *t*. The vowel *i* is lowered to *e* before *ʔt*. Examples are given in table 16.

The suffixes are used with animate nouns even when there is a number prefix; see examples (10), (12), and (14) in table 16.

The word *ŋolʔòs* *house* also means *vehicle* (airplane is a “house” that is flown). The inanimate noun is pluralized by a prefix: *(n)lʔòs* *houses*. The animate noun adds the plural suffix: *(n)lʔòst* *vehicles*. (There is no animate dual.)

Ordinarily, an inanimate noun shows

TABLE 17

	Sg.-Dual	Plural
<i>soap</i>	šilʷʔáhanʔ	šilʷʔáhaʔt
<i>fastener</i>	ndappólʔ	ndappóʔt
<i>bundle</i>	kišócʔ	rišóʔt
<i>fence</i>	ŋgokʔwáholʔ	ŋgʷwáhoʔt

the plural only by prefixes. However, certain inanimate nouns ending in *nʔ*, *lʔ*, or *cʔ* in the sg.-du. absolute form take an inanimate *-t* suffix in the plural. The *C* preceding the final *ʔ* of the sg.-du. form is dropped before this *-t*. Note that this behavior contrasts with that of the animate *-t*, described above. Table 17 shows examples.

The inanimate *-t* plural suffix, although homophonous with the animate *-t*, is more correctly identified with the *-t* suffix for plural objects in verbs. Compare *láttahanʔ* *I launder one or two pieces of clothing*, but *láttahaʔt* *I launder three or more pieces*; *lappólʔ* *I fasten it* (sg.-du. object), *lappóʔt* *I fasten them* (pl. obj.); *lasócʔ* *I tie it up* (sg.-du. obj.), *lasóʔt* *I tie them up* (pl. obj.).

Another characteristic of the inanimate plural *-t* is that it precedes the person suffixes: *ninčáoʔ* *sugar cone*, *rinčáoʔt* *sugar cones*, *ninčáolk* *my sugar cone* (*ʔ* drops according to a regular rule), *rinčáoʔtk* *my sugar cones*.

The number suffixes used with nouns which show person of the possessor by prefixes are: *-mʔ* exclusive dual or plural, *-i* dual (nonexclusive), *-t* third-person

Singular	Nonsingular	
First <ta->	Exclusive -mʔ	
	Dual	Plural
	-i	-n
Second <ki->		
Third <na->	-t	

FIG. 1.—Number suffixes

Singular	Nonsingular	
First -k	Exclusive -kʔŋ	
	Dual	Plural
	-iky	-kŋ
Second -kʔ	-ikyʔ	-kʔŋ
Third -p	-p	-pt

FIG. 2.—Person and number suffixes

TABLE 18

	<i>plow</i>	<i>ribbon</i>	<i>ground</i>
	nanhɔa	šippɥe	ŋgohwãogŋ
<i>my</i>	tanɔa	stáppe	nóhhwaogŋ
<i>your</i>	kinɥɔa/`	skíppɥe	nihyãogŋ
<i>his</i>	nanɔa	snáppɥe	níhhyãogŋ
<i>our excl</i>	tanɔamʔ	stáppebmʔ	nóhhwabmʔ
<i>our dual</i>	tanɔai	stáppɥe	nóhhwãoi
<i>your dual</i>	kinɥɔai/`	skíppɥe	nihyãoi
<i>their dual</i>	nanɔai	snáppɥe	níhhyãoi
<i>our plural</i>	tanɔan	stáppɛdn	nóhhwãodn
<i>your plural</i>	kinɥɔan/`	skíppɥedn	nihyãodn
<i>their plural</i>	—	snáppet	níhhyãodnt
<i>their plural</i>	nanhɔapt	šippɥept	—

TABLE 19

	<i>chin</i>	<i>pitcher</i>	<i>palm leaf</i>	<i>reed(s) (junco)</i>
	—	maci	čihwáʔa	kohwíʔo
<i>my</i>	manèk	maciky	čihwáʔak	kohwíʔok
<i>your</i>	manèkʔ	macikyʔ	čihwáʔakʔ	kohwíʔokʔ
<i>his</i>	manèp	macèp	čihwáʔap	kohwíʔep
<i>our excl</i>	manèkʔŋ	macikʔŋ	čihwáʔakʔŋ	kohwíʔokʔŋ
<i>our dual</i>	manèiky	maciky	čihwáʔaiky	kohwíʔoiky
<i>your dual</i>	manèikyʔ	macikyʔ	čihwáʔaikyʔ	kohwíʔoikyʔ
<i>their dual</i>	manèp	macèp	čihwáʔap	kohwíʔep
<i>our plural</i>	manèkŋ	macikŋ	čihwáʔakŋ	kohwíʔokŋ
<i>your plural</i>	manèkʔŋ	macikʔŋ	čihwáʔakʔŋ	kohwíʔokʔŋ
<i>their plural</i>	manèpt	macèpt	čihwáʔapt	kohwíʔept

TABLE 20
RESULTING FINAL CONSONANT CLUSTERS

Stem Ending	1 sg. -k	2 sg. -kʔ	3 sg. -p	1 dual -iky	2 dual -ikyʔ	3 dual -p	1 pl. incl. -kŋ	1 excl + 2 pl. -kʔŋ	3 pl. -pt
V k		kʔ	p	iky	ikyʔ	p	kŋ	kʔŋ	pt
t tk		tkʔ	p	iky	ikyʔ	p	tn	tʔn	pt
ʔ ʔk		kʔ	ʔp	eʔky	ikyʔ	ʔp	ʔkŋ	kʔŋ	ʔpt
s,cʔ sk		skʔ	sp	išky	iškyʔ	sp	sn	snʔ	spt
č,čʔ šk		škʔ	šp	išky	iškyʔ	išp	šn	šnʔ	špt
l,lʔ lk		lkʔ	lp	ilʔky	ilʔkyʔ	lp	ln	lnʔ/lʔn	lpt
n nk		nkʔ	mp	iŋky	iŋkyʔ	mp	(J) nk/nn (A) ¹	(J) nkʔ/nʔ (A)	mpt
ŋ ŋk		ŋkʔ	mp	iŋky	iŋkyʔ	mp	(J) ŋŋ/ŋn (A)	(J) ŋʔ/ŋʔŋ (A)	mpt
dn dnk		dnkʔ	bmp	igŋky	ignkyʔ	bmp	dn	dnʔ	bmpt
gŋ gŋk		gŋkʔ	bmp	igŋky	ignkyʔ	bmp	gŋ	gŋʔ	bmpt

¹ (J) stands for the speech variety represented by Juana Montero (de Rodríguez) and (A) the speech variety of Ascensiona Durán. The two women grew up a fifteen-minute walk apart.

plural, and -n plural (nonthird person) (see fig. 1).

The morphophonemic adjustments for -i and -t have already been described. Both -m^ʔ and -n have an oral stop transition after an oral vowel, -bm^ʔ and -dn. Stem-final (g)ŋ is deleted before -m^ʔ and -n as well as before -i. The cluster ai reduces to ε before -m^ʔ, and other clusters with i or o as second member lose the i or o before -m^ʔ. Examples are shown in table 18.

Nouns that show person of the possessor by suffixation employ -k for first person, -k^ʔ for second person, and -p for third person. The number of the possessor is shown by the same set of suffixes presented in figure 1, added after the person suffixes. The results of the combinations of the two suffix orders are shown in figure 2. Note that -m^ʔ assimilates to -k, and the ʔ metathesizes to follow the k, although

many speakers pronounce it after the ŋ. The plural -n also assimilates to -k and -k^ʔ. The ʔ of the suffix -k^ʔ in the pronunciation of many speakers follows the ŋ. This results in homophonous endings for first-person exclusive and second-person plural.

The dual -i is lost before the suffix -p by the rule that deletes cluster-final i and o before a bilabial suffix; stem vowel i lowers to e before the -p of third person; vowel o in the second syllable of a stem is replaced by e before a bilabial suffix (in both nouns and verbs). Older speakers sometimes pronounce a voiceless I after the third-person -p in the dual (see table 19).

When the person and number suffixes combine with stem-final consonants (or consonant clusters), some cluster reductions take place. These are shown in table 20. Examples are shown in table 21.

TABLE 21

	<i>life</i>	<i>anise</i>	<i>feather, pen</i>
	—	skanhwàc ^ʔ	stil ^ʔ háigŋ
<i>my</i>	manòtk	skanhwàsk	stil ^ʔ háigŋky
<i>your</i>	manòtk ^ʔ	skanhwàsk ^ʔ	stil ^ʔ háigŋky ^ʔ
<i>his</i>	manòp	skanhwàsp	stil ^ʔ hébmp
<i>our excl.</i>	manòt ^ʔ n	skanhwàsn ^ʔ	stil ^ʔ háigŋ ^ʔ
<i>our dual</i>	manòiky	skanhwàišky	stil ^ʔ háigŋky
<i>your dual</i>	manòiky ^ʔ	skanhwàišky ^ʔ	stil ^ʔ háigŋky ^ʔ
<i>their dual</i>	manòp	skanhwàsp	stil ^ʔ hébmp
<i>our plural</i>	manòtn	skanhwàsn	stil ^ʔ háigŋ
<i>your plural</i>	manòt ^ʔ n	skanhwàsn ^ʔ	stil ^ʔ háigŋ ^ʔ
<i>their plural</i>	manòpt	skanhwàspt	stil ^ʔ hébmp ^t

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[Footnotes]

¹ **Pame (Otomi) Phonemics and Morphophonemics**

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International Journal of American Linguistics, Vol. 22, No. 4. (Oct., 1956), pp. 242-265.

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